SOVEREIGN CONSULTING INC.

November 12, 2014

Ms. Susan Bull
Maryland Department of the Environment
Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, MD 21230

Re: **SITE STATUS REPORT: FOURTH QUARTER 2014**
Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland
MDE Case # 97-0699CE

Dear Ms. Bull:

Sovereign Consulting Inc. (Sovereign) on behalf of Pilot Corporation (Pilot) is submitting the attached Fourth Quarter 2014 Site Status Report. The report contains groundwater quality and monitoring data for the period August 1 through October 31, 2014. Activities this period included weekly/bi-monthly monitoring of product removal levels and quarterly groundwater sampling. The results of the groundwater monitoring and sampling are summarized in the attached report. Operation details of the DPVE Remediation System are included in Table 2.

This quarter approximately 0.04 lbs of TPH and 23 gallons of groundwater and product were removed from MW-2 by the DPVE system. The DPVE system is currently operating only to remove product of 0.10 feet or greater from the system wells.

Should you have any questions or require additional information, please feel free to contact the undersigned at (856) 325-2099.

Sincerely,
Sovereign Consulting Inc.

Jacquelyn Cuneo
Staff Engineer

Enclosure

cc: Ms. Jennifer Williams, Sovereign
Mr. Joey Cupp, Pilot Travel Centers
Ms. Jeannette DeBartolomeo, Maryland Department of the Environment

100 Dobbs Lane, Suite 212 • Cherry Hill, NJ 08034 • Tel: 856-325-2099 • Fax: 856-429-7444

SITE STATUS REPORT
FOURTH QUARTER 2014

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Prepared for:

Pilot Travel Centers, LLC
5508 Lonas Drive
Knoxville, Tennessee

Prepared by:

Sovereign Consulting Inc.
100 Dobbs Lane
Suite 212
Cherry Hill, New Jersey

November 2014

Site Status Report
Pilot Travel Center #290
31 Heather Lane, Perryville, Maryland
August 1, 2014 through October 31, 2014

CONSULTANT: Sovereign Consulting, Inc.
PROJECT MANAGER: Jennifer Williams
SITE MANAGER: Joey Cupp

SITE HISTORY:

06/05	Periodic annual inspection of the underground storage tank (UST) system by the Maryland Department of the Environment (MDE). A Compliance Inspection and Report of Observation were issued.
07/05	GES prepared a summary report to respond to the observations, and report the detection of liquid phase hydrocarbons (LPH).
07/05	High Intensity Target (HIT) event; 4,325 gallons of LPH and water recovered.
08/05	Monitoring wells MW-1 through MW-3 installed as part of site characterization activities.
09/05	HIT event; 4,205 gallons of LPH and water recovered.
10/05	Three additional groundwater monitoring wells (MW-4 through MW-6) were installed. LPH was detected at thicknesses ranging from 0.01 feet to 1.57 feet in monitoring well MW-2.
11/05	Groundwater samples were collected from monitoring wells MW-1, MW-3, MW-5, and MW-6.
12/05	Site Characterization Report (SCR) submitted to MDE.
01/06	HIT event; 580 gallons of LPH and water recovered.
02/06	HIT event; 4,650 gallons of LPH and water recovered.
05/06	HIT event; 831 gallons of LPH and water recovered.
08/06	Installation of passive skimmer in monitoring well MW-2.
05/08	Passive skimmer removed from well MW-2 for repair or replacement.
12/08	Begin installation of SpillBuster product recovery system.
1/09	Complete installation of SpillBuster product recovery system.
02/09	Abandonment and re-installation of MW-4, installation of MW-7 and MW-8.
5/19/09	LPH removal pump in MW-2 malfunctions. Pump is removed for repair.
8/09	Pump is re-installed.
10/29/09	LPH removal pump malfunctions. Pump is removed for repair.
3/2010	LPH removal pump is re-installed in MW-2.
9/3/2010	Complete installation of new monitoring wells MW-9 and MW-10
9/8/2010	Aquifer testing is attempted and fails.
9/13/2010	EFR conducted on MW-2, MW-8 and MW-10
9/14/2010	Slug testing is performed
11/29/2010	Corrective Action Plan submitted to MDE.
6/1/2011	Corrective Action Plan approved by MDE.
1/10/2012	MW-10 abandoned and reinstalled to 31 feet below grade as MW-10R.
5/9/2012	DPVE System Start-Up.
2/28/2014	System motor broken; system taken off-line and product monitored.
5/30/2014	System restarted when 0.10 feet of product was observed in MW-2.
6/25/2014	System taken off-line and product monitored per approved gauging schedule.

REGULATORY INTERACTION:

Agency:	Maryland Department of the Environment
Agency Contact:	Susan Bull
MDE Case #	97-0699CE

REPORTING PERIOD ACTIVITIES:

Groundwater Sampling Frequency:	Quarterly
Analytical Laboratory / Methods:	Accutest Laboratories VO+10 by 8260B, TPH-GRO, and TPH-DRO
Gauging Frequency:	Weekly/Bi-Monthly/Monthly
Other Activities:	None

DATA SUMMARY:

Groundwater Sampling Date:	October 14, 2014
# of Wells / # Sampled:	12 /11
Depth to Water (ft):	6.11 feet (TF-1) to 27.58 feet (MW-10R) feet below top of casing
Dissolved Benzene Range:	0.22 µg/l (MW-5, MW-6) to 4.7 µg/l (MW-10R)
Dissolved BTEX Range:	0.22 µg/l (MW-5, MW-6) to 401.8 µg/l (TF-1)
Dissolved MTBE Range:	ND (MW-1, MW-3, MW-6, MW-7, MW-8, MW-9, MW-10R, TF-1, TF-2) to 2.5 µg/l (MW-4R)
Dissolved TPH-DRO:	0.575 mg/l (MW-1) to 1,370 mg/l (TF-1)
Dissolved TPH-GRO:	ND (MW-1, MW-3, MW-4R, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10R) to 5.70 mg/L (TF-1)

LPH REMOVAL SUMMARY:

HIT Events:	14,591 gallons of LPH and groundwater recovered
SpillBuster Operation:	94 gallons of LPH recovered
DPVE Operation:	369,624 gallons of LPH and groundwater recovered

FUTURE ACTIVITIES:

Weekly/Bi-Monthly/Monthly System well gauging
Quarterly gauging and sampling of monitoring wells

ATTACHMENTS:

LIST OF FIGURES

Figure 1	Site Map
Figure 2	Groundwater Monitoring Map: October 14, 2014
Figure 3	MW-2 Groundwater Elevation and Product Thickness vs. Time
Figure 4	MW-8 Groundwater Elevation and Product Thickness vs. Time

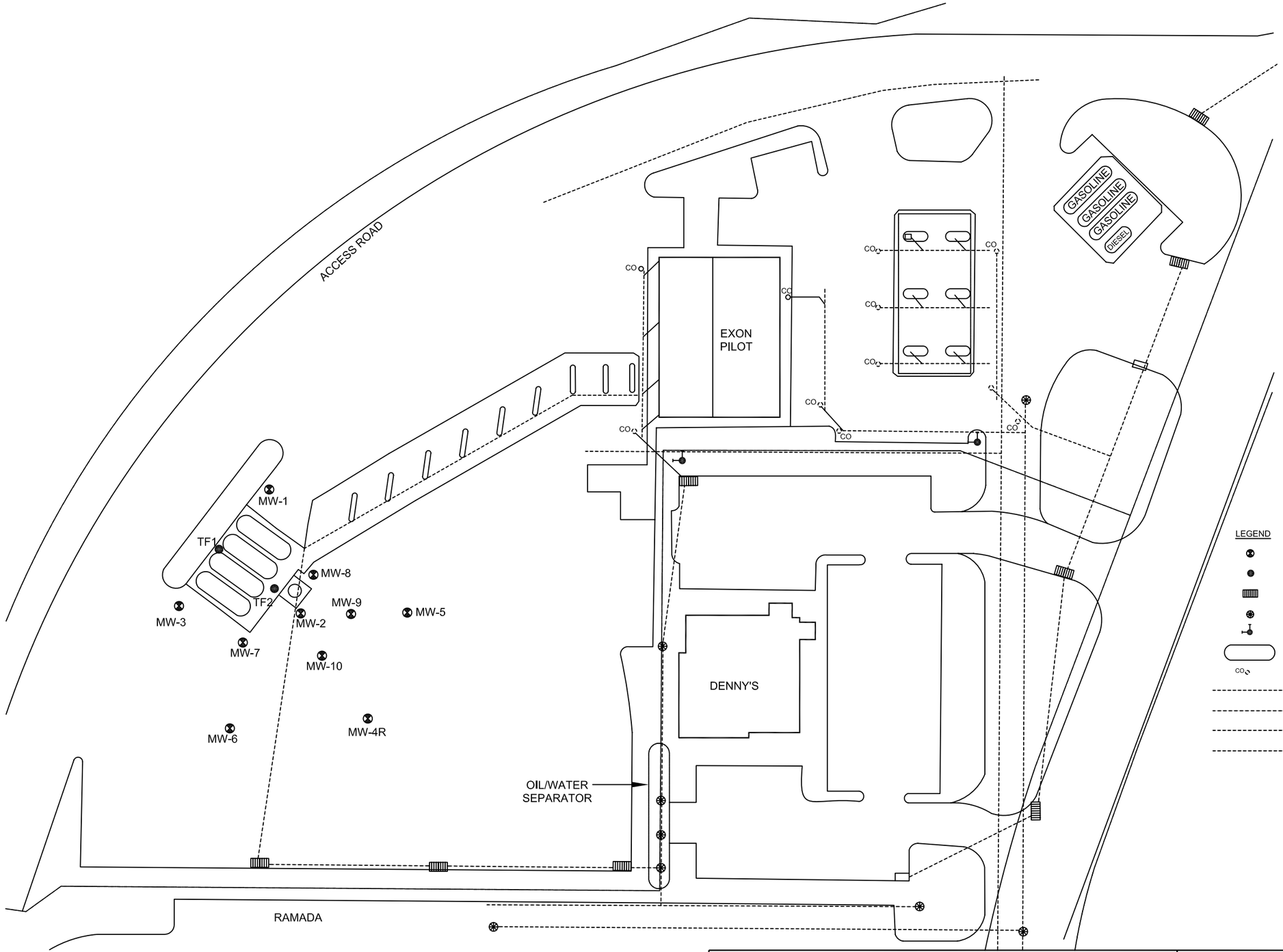
LIST OF TABLES

Table 1	Groundwater Gauging and Analytical Data Summary
Table 2	DPE Operation Data
Table 3	Monitoring Well Gauging Data
Table 4	Geochemical Parameters

LIST OF APPENDICES

Appendix A	Laboratory Analytical Report and Chain-of-Custody Documentation

FIGURES



0 60
APPROXIMATE SCALE IN FEET

Sovereign Consulting Inc.
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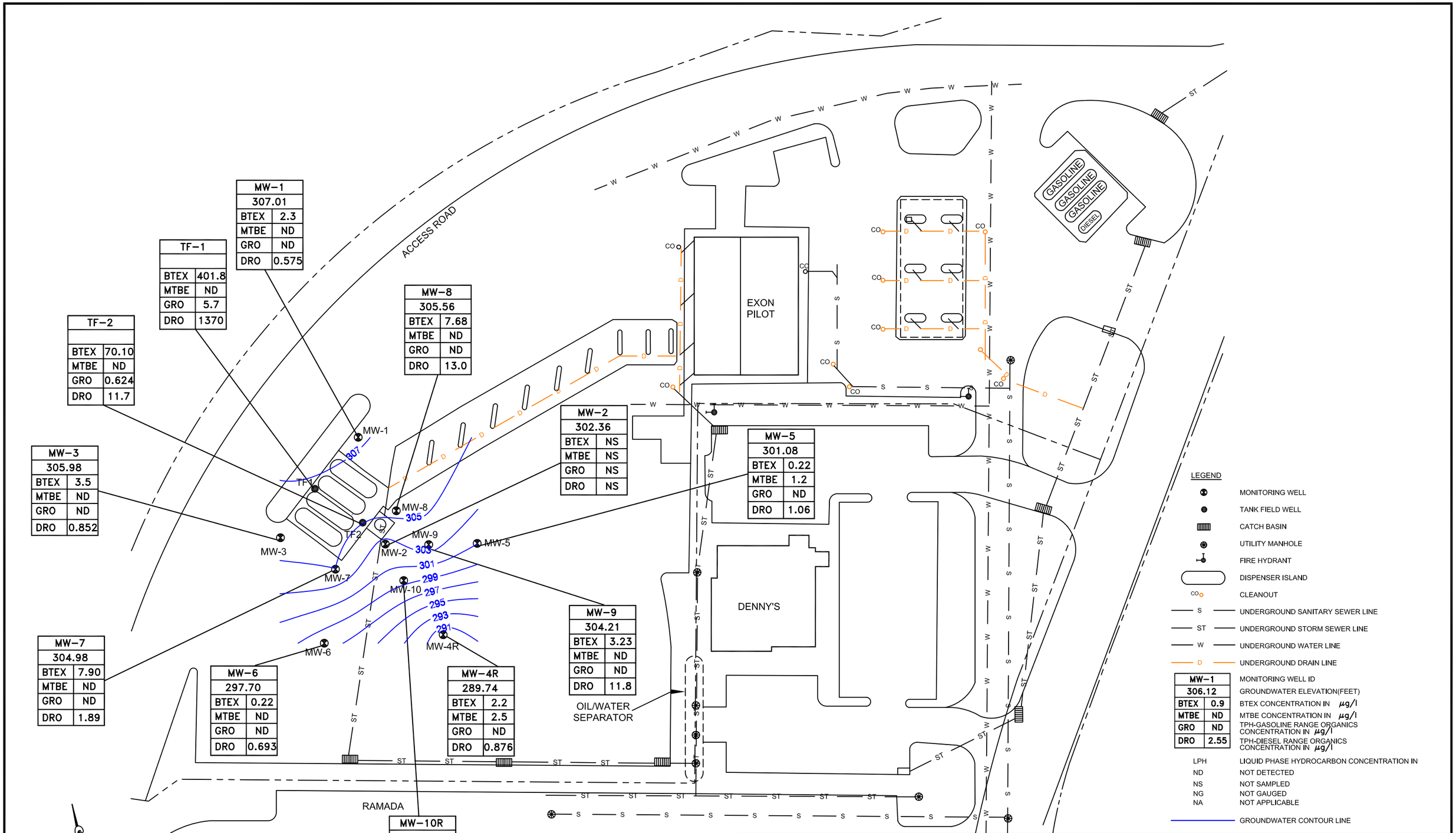
(609) 259-8200 Fax (609) 259-8288

Project No. PL203 File:PTC\SITE PLAN(new).dwg Date: 10/26/10

FIGURE 1
SITE PLAN

PILOT TRAVEL CENTERS SS#290
31 HEATHER LANE
PERRYVILLE, MARYLAND



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Project No. PL203 File:PTC\GWEC 1014.dwg Date: 11/12/14

FIGURE 2
GROUNDWATER CONTROUR MAP
OCTOBER 14, 2014

PILOT TRAVEL CENTERS SS#290
31 HEATHER LANE
PERRYVILLE, MARYLAND

Figure 3. Pilot Travel Center #290
31 Heather Lane, Perryville, MD
MW-2: Groundwater Elevation and Product Thickness vs. Time

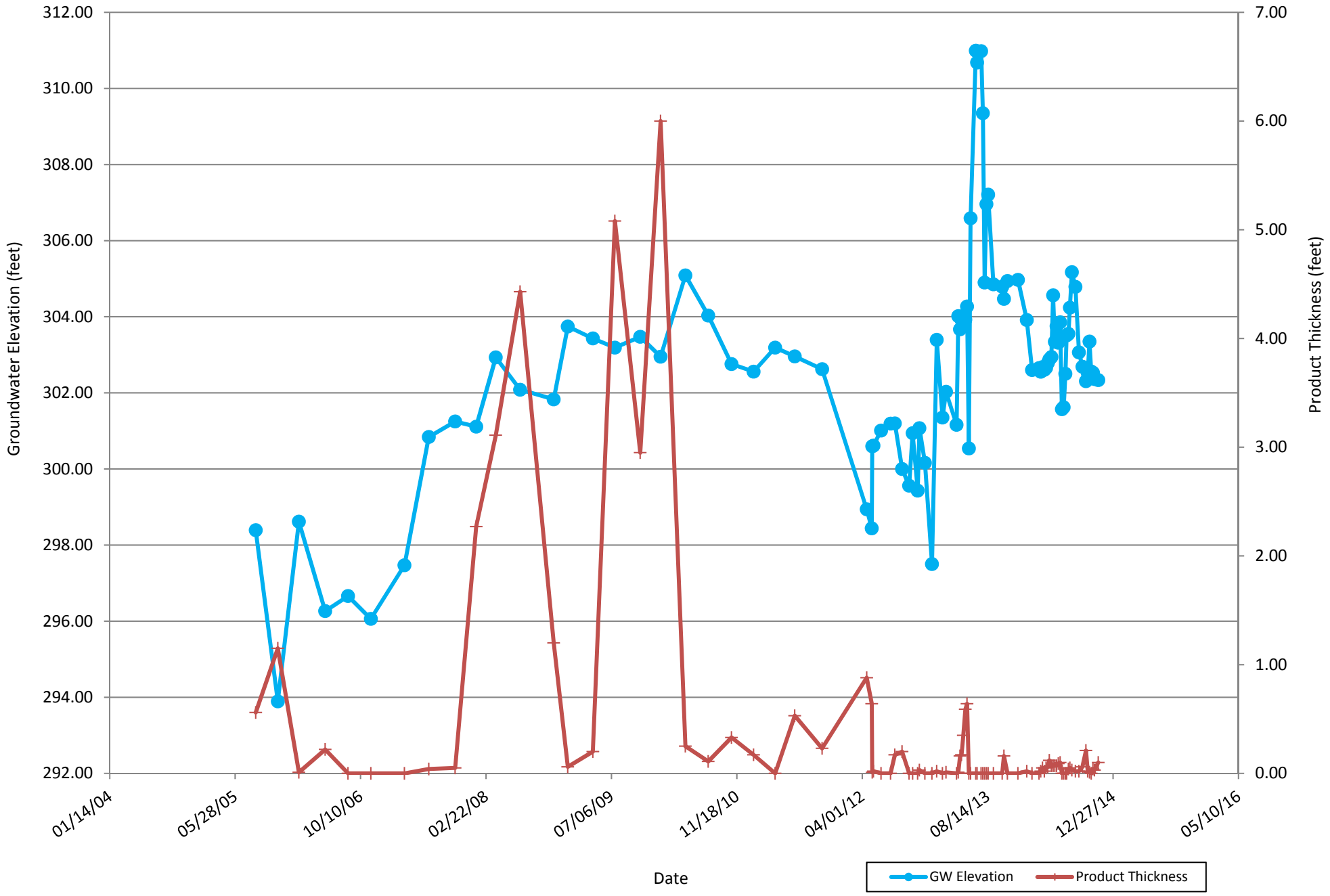
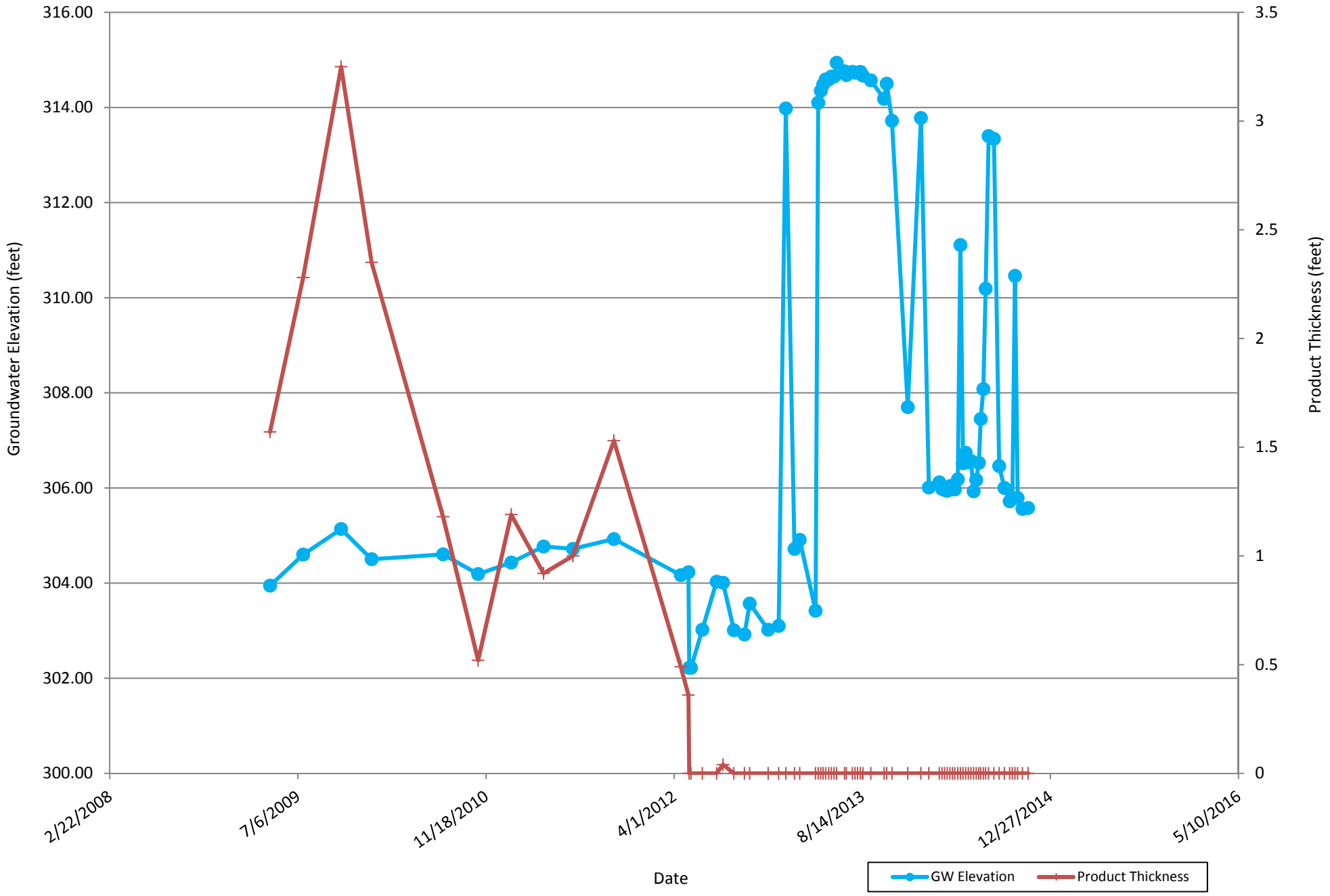


Figure 4. Pilot Travel Center #290
31 Heather Lane, Perryville, MD
MW-8: Groundwater Elevation and Product Thickness vs. Time



TABLES

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)
						MDE Standards								
						5.0	1,000	700	10,000	NA	20	0.65	0.047	0.047
MW-1	08/18/05	317.72	12.27	NA	305.45	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.17***
	11/14/05	317.72	12.59	NA	305.13	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.23***
	02/06/06	317.72	11.82	NA	305.90	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.15***
	05/22/06	317.72	12.47	NA	305.25	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	<0.1
	08/21/06	317.72	12.20	NA	305.52	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	<0.1
	11/20/06	317.72	11.71	NA	306.01	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	<0.1
	04/03/07	317.72	11.45	NA	306.27	<5.0	5.2	<5.0	6.5	11.7	<5.0	<5.0	NA	***0.43***
	07/09/07	317.72	12.27	NA	305.45	<1.0	<1.0	<2.0	<2.0	ND	<1.0	<2.0	NA	***0.10 J***
	10/22/07	317.72	13.35	NA	304.37	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.59***
	01/07/08	317.72	13.20	NA	304.52	***14***	<5.0	<5.0	28	42	<5.0	***14***	NA	***0.72***
	04/01/08	317.72	11.47	NA	306.25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***0.94***
	07/07/08	317.72	11.27	NA	306.45	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	***<5.0***	NA	***280***
	11/18/08	317.72	12.81	NA	304.91	***23***	<5.0	<5.0	<5.0	23.0	<5.0	<5.0	NA	***6.2***
	01/13/09	317.72	12.69	NA	305.03	***18***	<5.0	<5.0	<5.0	18.0	<5.0	<5.0	NA	***0.64***
	04/23/09	317.72	12.01	NA	305.71	***17***	<5.0	<5.0	<5.0	17.0	<5.0	<5.0	***0.068***	***0.53***
	07/20/09	317.72	11.63	NA	306.09	***7.8***	<5.0	<5.0	<5.0	7.8	<5.0	<5.0	<0.1	***0.14***
	10/29/09	317.72	12.15	NA	305.57	***11.0***	<1.0	<1.0	<1.0	11.0	<1.0	<1.0	<0.1	***<1.1***
	01/18/10	317.72	NM	NM	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/27/10	317.72	10.47	NA	307.25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	***0.85***
	07/27/10	317.72	12.08	NA	305.64	***6.3***	<1.0	<1.0	<1.0	6.3	<1.0	1	<0.1	***2.20***
	10/28/10	317.72	12.61	NA	305.11	***5.2***	<1.0	<1.0	<1.0	5.2	<1.0	<1.0	<0.050	***0.70***
	01/24/11	317.72	13.31	NA	304.41	***10.9***	0.33 J	4.1	1.1	16.4	<1.0	NA	<0.011	***1.77***
	04/20/11	317.72	11.27	NA	306.45	<1.0	<1.0	<1.0	<1.0	<1.0	0.31 J	NA	<0.011	***3.19***
	07/07/11	317.72	11.60	NA	306.12	0.90J	<0.15	<0.21	<0.17	0.9	<1.0	<0.68	<0.016	***2.66***
	10/24/11	317.72	10.88	NA	306.84	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***2.12***
	01/09/12	317.72	11.39	NA	306.33	1.4	<1.0	<1.0	<1.0	1.4	<1.0	NA	<0.016	***1.38***
	04/19/12	317.72	11.94	NA	305.78	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***2.61***
	07/23/12	317.72	12.65	NA	305.07	2.9	<0.23	<0.23	<0.24	2.9	<0.16	NA	<0.040	***1.47***
	10/19/12	317.72	13.65	NA	304.07	-	-	-	-	-	-	-	<0.040	***0.422***
	11/15/12	317.72	13.33	NA	304.39	2.0	4.7	6.2	28.6	41.5	<0.16	NA	-	-
	01/23/13	317.72	11.94	NA	305.78	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.040	***3.080***
	04/26/13	317.72	10.18	N/A	307.54	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.040	***0.762***
	07/19/13	317.72	5.85	NA	311.87	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.038	***0.221***
	10/18/13	317.72	5.94	NA	311.78	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.497***
	01/17/14	317.72	8.11	NA	309.61	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.588***
	04/25/14	317.72	8.65	NA	309.07	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.268***
	07/08/14	317.72	7.21	NA	310.51	<0.21	<0.22	1.9	7.9	9.8	<0.26	***5.5***	***0.333***	***0.980***
	10/14/14	317.72	10.71	NA	307.01	0.65	<0.22	1.6	<0.20	2.3	<0.26	<0.34	<0.038	***0.575***
MW-2	08/18/05	315.76	17.79	0.56	298.39	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/14/05	315.76	22.73	1.15	293.89	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	02/06/06	315.76	17.15	0.01	298.62	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	05/22/06	315.76	19.66	0.22	296.27	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	08/21/06	315.76	19.10	0.00	296.66	<5.0	<5.0	<5.0	5.4	5.4	11	***15***	NA	<0.1
	11/20/06	315.76	19.70	0.00	296.06	<50	<50	<50	<50	ND	<50	<50	NA	***340***
	04/03/07	315.76	18.29	0.00	297.47	<5.0	5.4	7.8	32.2	45.4	<5.0	***19***	NA	***260***
	07/09/07	315.76	14.95	0.04	300.84	3.5	5.6	18.0	56.3	83.4	3	***49 B***	NA	***210***
	10/22/07	315.76	14.55	0.05	301.25	<5.0	<5.0	9.9	28.0	27.9	<5.0	***45***	NA	***210***
	01/14/08	315.76	16.35	2.27	301.11	***93***	280	78	750	1,201	<5.0	***230***	NA	***170***
	04/01/08	315.76	15.16	3.11	302.93	*<5.0*	890	420	4,000	5,310	<5.0	***460***	NA	***360***
	07/07/08	315.76	17.00	4.43	302.08	***54***	220	89	710	1,073	<5.0	***390***	NA	***44***
	11/18/08	315.76	14.83	1.20	301.83	***26***	29	21	134	210	<5.0	***130***	NA	***61***
	01/13/09	315.76	12.06	0.06	303.75	***<25***	55	46	336	437	<25	***270***	NA	***910***
	04/23/09	315.76	12.48	0.20	303.43	***18***	14	17	103	152	<5.0	***120***	***1.7***	***130***
	07/20/09	315.76	16.38	5.08	303.19	***27***	36	56	430	549	<5.0	***340***	***11.0***	***8800***
	10/29/09	315.76	14.50	2.95	303.47	***28***	17	52	270	367	<2.0	***240***	***7.7***	***2300***
	01/18/10	315.76	17.31	6.00	302.95	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	04/27/10	315.76	10.86	0.25	305.09	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	07/27/10	315.76	11.81	0.11	304.03	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/28/10	315.76	13.25	0.33	302.76	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	01/24/11	315.76	13.33	0.17	302.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	04/20/11	315.76	12.57	0.00	303.19	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	07/07/11	315.76	13.20	0.53	302.96	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/24/11	315.76	13.31	0.23	302.62	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	04/19/12	315.76	17.48	0.88	298.94	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	07/23/12	315.76	14.57	0.00	301.19	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/19/12	315.76	14.82	0.00	300.94	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/15/12	315.76	14.71	0.03	301.07	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/23/13	315.76	12.38	0.02	303.40	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/26/13	315.76	12.21	0.16	303.67	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/13	315.76	4.78	0.00	310.98	<0.24	0.26 J	0.97 J	6.4	7.63	ND	***6.3***	<0.038	***27.9***
	10/18/13	315.76	11.41	0.16	304.47	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/17/14	315.76	11.86	0.02	303.92	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/25/14	315.76	12.87	0.07	302.94	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/08/14	315.76	11.56	0.05	304.24	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/14/14	315.76	13.42	0.03	302.36	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)
MW-3	08/18/05	316.12	11.00	NA	305.12	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.42***
	11/14/05	316.12	11.47	NA	304.65	<5.0	<5.0	<5.0	<5.0	ND	***23***	<5.0	NA	***0.58***
	02/06/06	316.12	10.36	NA	305.76	<5.0	<5.0	<5.0	<5.0	ND	***20***	<5.0	NA	***0.71***
	05/22/06	316.12	11.06	NA	305.06	<5.0	<5.0	<5.0	<5.0	ND	6.5	<5.0	NA	***0.24***
	08/21/06	316.12	10.80	NA	305.32	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.71***
	11/20/06	316.12	10.27	NA	305.85	<5.0	<5.0	<5.0	<5.0	ND	5.8	<5.0	NA	***0.66***
	04/03/07	316.12	10.38	NA	305.74	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.50***
	07/09/07	316.12	10.89	NA	305.23	0.90 J	<1.0	<2.0	<2.0	0.90 J	2.6	0.32 BJ	NA	***0.39***
	10/22/07	316.12	12.00	NA	304.12	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***1.40***
	01/07/08	316.12	11.84	NA	304.28	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.77***
	04/01/08	316.12	10.25	NA	305.87	***14***	<5.0	<5.0	<5.0	14	<5.0	<5.0	NA	***0.93***
	07/07/08	316.12	10.10	NA	306.02	***11***	<5.0	<5.1	<5.2	11	<5.0	<5.0	NA	***0.77***
	11/18/08	316.12	11.66	NA	304.46	***8.3***	<5.0	<5.0	<5.0	8.3	<5.0	<5.0	NA	***0.66***
	01/13/09	316.12	11.57	NA	304.55	***8.2***	<5.0	<5.0	<5.0	8.2	<5.0	<5.0	NA	***5.20***
	04/23/09	316.12	11.65	NA	304.47	***6.5***	<5.0	<5.0	<5.0	6.5	<5.0	<5.0	<0.1	***1.60***
	07/20/09	316.12	10.32	NA	305.80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.1	***0.47***
	10/29/09	316.12	10.71	NA	305.41	***5.4***	<1.0	<1.0	<1.0	5	<1.0	<1.0	<0.1	***2.20***
	01/18/10	316.12	10.58	NA	305.54	***6.7***	<1.0	<1.0	<1.0	7	<1.0	<0.1	<0.1	***0.91***
	04/27/10	316.12	9.66	NA	306.46	***6.1***	<1.0	<1.0	<1.0	6.1	<1.0	<1.0	<0.1	***1.40***
	07/27/10	316.12	10.60	NA	305.52	3.7	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<0.1	***0.90***
	10/28/10	316.12	11.08	NA	305.04	4.8	<1.0	<1.0	<1.0	4.8	<1.0	<1.0	<0.050	***1.20***
	01/24/11	316.12	12.04	NA	304.08	***6.7***	<1.0	<1.0	<1.0	6.7	<1.0	NA	<0.011	***1.60***
	04/20/11	316.12	10.55	NA	305.57	***7.5***	<1.0	<1.0	1.2	8.7	<1.0	NA	<0.011	***2.62***
	07/07/11	316.12	10.54	NA	305.58	***6.7***	<0.15	<0.21	<0.17	6.7	<0.18	<0.68	<0.016	***1.81***
	10/24/11	316.12	9.37	NA	306.75	3.7	<1.0	0.43	<1.0	4.1	<1.0	NA	<0.016	***1.76***
	01/09/12	316.12	10.21	NA	305.91	3.2	<1.0	<1.0	<1.0	3.2	<1.0	NA	<0.016	***1.30***
	04/19/12	316.12	11.28	NA	304.84	3.6	<1.0	<1.0	<1.0	3.6	<1.0	NA	<0.016	***2.16***
	07/23/12	316.12	11.58	NA	304.54	3.1	<0.23	<0.23	<0.24	3.1	<0.16	NA	<0.040	***1.76***
	10/19/12	316.12	12.61	NA	303.51	-	-	-	-	-	-	-	<0.040	***1.29***
	11/15/12	316.12	12.06	NA	304.06	2.8	<0.23	0.32 J	0.63 J	3.4 J	<0.16	NA	-	-
	01/23/13	316.12	11.14	NA	304.98	1.3	<0.23	0.78 J	1.20	3.28 J	<0.16	***2.1 J***	<0.040	***10.40***
	04/26/13	316.12	9.77	NA	306.35	2.0	<0.23	0.27 J	<0.24	2.3	<0.16	<1.8	<0.040	***5.76***
	07/19/13	316.12	6.11	NA	310.01	0.98 J	<0.23	1.40	0.76 J	3.14	<0.16	<1.1	<0.038	***2.49***
	10/18/13	316.12	7.08	NA	309.04	1.4	<0.44	0.63 J	0.25 J	2.28	<0.29	***0.89 J***	<0.038	***1.91***
	01/17/14	316.12	9.90	NA	306.22	3.3	<0.44	<0.21	<0.19	3.30	<0.29	<0.25	<0.038	***1.58***
	04/25/14	316.12	9.87	NA	306.25	0.36J	<0.44	<0.21	<0.19	0.36	<0.29	<0.25	<0.038	***0.61***
	07/08/14	316.12	7.94	NA	308.18	<0.21	<0.22	0.70 J	1.70	2.40	<0.26	<0.34	<0.038	***0.727***
	10/14/14	316.12	10.14	NA	305.98	3.5	<0.22	<0.40	<0.20	3.50	<0.26	<0.34	<0.038	***0.852***
MW-4	11/14/05	Unknown	Dry	NA	Unknown	-	-	-	-	-	-	-	NA	-
	02/06/06	Unknown	24.22	NA	Unknown	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	N/A
	05/22/06	Unknown	24.17	NA	Unknown	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***5.0***
	08/21/06	Unknown	24.70	NA	Unknown	-	-	-	-	-	-	-	NA	-
	04/03/07	Unknown	Dry	NA	Unknown	-	-	-	-	-	-	-	NA	-
	07/09/07	Unknown	24.20	NA	Unknown	-	-	-	-	-	-	-	NA	-
	10/22/07	Unknown	23.02	NA	Unknown	-	-	-	-	-	-	-	NA	-
	01/07/08	Unknown	24.26	NA	Unknown	-	-	-	-	-	-	-	NA	-
	04/01/08	Unknown	24.20	NA	Unknown	-	-	-	-	-	-	-	NA	-
	07/07/08	Unknown	24.12	NA	Unknown	-	-	-	-	-	-	-	NA	-
	11/18/08	Unknown	23.31	NA	Unknown	-	-	-	-	-	-	-	NA	-
	01/13/09	Unknown	23.38	NA	Unknown	-	-	-	-	-	-	-	NA	-
MW-4R	04/23/09	315.69	26.32	NA	289.37	<5.0	<5.0	<5.0	<5.0	ND	5.1	5.0	<0.1	***0.15***
	07/20/09	315.69	26.20	NA	289.49	<5.0	<5.0	<5.0	<5.0	ND	<5.0	***20***	<0.1	***0.56***
	10/29/09	315.69	26.31	NA	289.38	4.9	<1.0	<1.0	<1.0	4.9	5.0	***15***	<0.1	***0.55***
	01/18/10	315.69	23.35	NA	292.34	4.6	<1.0	<1.0	<1.0	4.6	4.7	***15***	<0.1	***0.17***
	04/27/10	315.69	26.17	NA	289.52	4.4	<1.0	<1.0	<1.0	4.4	4.4	***12***	<0.1	***0.45***
	07/27/10	315.69	26.20	NA	289.49	4.1	<1.0	<1.0	<1.0	4.1	3.5	***14***	<0.1	***0.22***
	10/28/10	315.69	26.44	NA	289.25	4.2	<1.0	<1.0	<1.0	4.2	3.8	***20***	<0.05	***0.28***
	01/24/11	315.69	26.60	NA	289.09	3.7	<1.0	<1.0	<1.0	3.7	3.8	NA	<0.011	***0.81***
	04/20/11	315.69	26.11	NA	289.58	4.0	<1.0	<1.0	<1.0	4.0	3.9	NA	<0.011	***2.43***
	07/07/11	315.69	26.20	NA	289.49	3.7	<0.15	<0.21	<0.17	3.7	3.6	<0.68	<0.016	***2.84***
	10/24/11	315.69	26.34	NA	289.35	4.1	<1.0	<1.0	<1.0	4.1	3.5	NA	<0.016	***1.41***
	01/09/12	315.69	26.28	NA	289.41	4.0	0.24 J	<1.0	<1.0	4.2	3.4	NA	<0.016	***0.59***
	04/19/12	315.69	26.15	NA	289.54	3.0	0.37 J	<1.0	<1.0	3.4	3.2	NA	<0.016	***1.84***
	07/23/12	315.69	26.47	NA	289.22	3.8	0.55 J	<0.23	<0.24	4.4	4.4	NA	<0.040	***0.998***
	10/19/12	315.69	26.14	NA	289.55	-	-	-	-	-	-	-	<0.040	***1.15***
	11/15/12	315.69	26.65	NA	289.04	1.6	<0.23	<0.23	<0.24	1.6	3.0	NA	-	-
	01/23/13	315.69	28.17	NA	287.52	1.3	<0.23	<0.23	<0.24	1.3	3.3	***4.8 J***	<0.040	***4.80***
	04/26/13	315.69	25.97	NA	289.72	1.9	<0.23	<0.23	<0.24	1.9	3.7	***6.3***	<0.040	***1.29***
	07/19/13	315.69	25.55	NA	290.14	1.4	0.59 J	<0.23	<0.24	1.99	2.6	***5.3***	<0.038	***0.927***
	10/18/13	315.69	25.71	NA	289.98	2.1	<0.44	<0.21	<0.19	2.10	3.2	***7.7***	<0.038	***0.687***
	01/17/14	315.69	26.05	NA	289.64	2.2	<0.44	<0.21	<0.19	2.20	3.0	***4.9 J***	<0.038	***1.690***
	04/25/14	315.69	26.14	NA	289.55	2.0	<0.44	<0.21	<0.19	2.0	2.4	***4.9J***	<0.038	***1.990***
	07/08/14	315.69	25.93	NA	289.76	2.1	<0.22	<0.40	<0.20	2.1	2.8	***6.1***	<0.038	***2.890***
	10/14/14	315.69	25.95	NA	289.74	2.2	<0.22	<0.40	<0.20	2.2	2.5	***6.8***	<0.038	***0.876***

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)
MW-5	11/14/05	317.78	16.35	NA	301.43	<5.0	<5.0	<5.0	<5.0	ND	7.8	<5.0	NA	***1.7***
	02/06/06	317.78	16.26	NA	301.52	<5.0	<5.0	<5.0	<5.0	ND	5.7	<5.0	NA	***0.57***
	05/22/06	317.78	16.31	NA	301.47	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.8***
	08/21/06	317.78	16.25	NA	301.53	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.49***
	11/20/06	317.78	16.17	NA	301.61	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.46***
	04/03/07	317.78	16.20	NA	301.58	<5.0	<5.0	<5.0	6.1	6.1	<5.0	<5.0	NA	***0.49***
	07/09/07	317.78	16.19	NA	301.59	<1.0	<1.0	<2.0	<2.0	ND	8.8	0.96 BJ	NA	***1.00***
	10/22/07	317.78	16.55	NA	301.23	<5.0	<5.0	<5.0	16.0	16.0	5.2	***37***	NA	***6.80***
	01/07/08	317.78	16.53	NA	301.25	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***1.20***
	04/01/08	317.78	16.20	NA	301.58	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***1.90***
	07/07/08	317.78	16.14	NA	301.64	<5.0	<5.0	<5.0	<5.0	<5.0	7.5	<5.0	NA	***1.20***
	11/18/08	317.78	16.43	NA	301.35	<5.0	<5.0	<5.0	<5.0	<5.0	5.9	<5.0	NA	***2.20***
	01/13/09	317.78	16.44	NA	301.34	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***2.40***
	04/23/09	317.78	16.44	NA	301.34	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.1	***1.00***
	07/20/09	317.78	16.15	NA	301.63	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.1	***1.10***
	10/29/09	317.78	16.24	NA	301.54	2.6	<1.0	<1.0	<1.0	2.6	5.2	<1.0	<0.1	***1.40***
	01/18/10	317.78	16.20	NA	301.58	3.5	<1.0	<1.0	<1.0	3.5	1.4	<0.1	<0.1	***0.90***
	04/27/10	317.78	16.04	NA	301.74	3.1	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<0.1	***1.30***
	07/27/10	317.78	16.08	NA	301.70	2.3	<1.0	<1.0	<1.0	2.3	1.3	***1.6***	<0.1	***0.82***
	10/28/10	317.78	17.51	NA	300.27	<1.0	<1.0	<1.0	<1.0	<1.0	3.3	<1.0	<0.05	***1.80***
	01/24/11	317.78	16.49	NA	301.29	1.1	<1.0	<1.0	<1.0	1.1	1.1	NA	<0.011	***2.82***
	04/20/11	317.78	16.22	NA	301.56	1.5	<1.0	<1.0	<1.0	1.5	1.5	NA	<0.011	***4.93***
	07/07/11	317.78	16.19	NA	301.59	0.88 J	<0.15	<0.21	<0.17	0.9	1.6	<0.68	<0.016	***4.41***
	10/24/11	317.78	16.08	NA	301.70	1.9	<1.0	<1.0	<1.0	1.9	1.6	NA	<0.016	***2.42***
	01/09/12	317.78	16.14	NA	301.64	1.1	<1.0	<1.0	<1.0	1.1	0.88	NA	<0.016	***2.09***
	04/19/12	317.78	16.26	NA	301.52	0.78 J	<1.0	<1.0	<1.0	0.78 J	1.00	NA	<0.016	***2.80***
	07/23/12	317.78	16.37	NA	301.41	0.70 J	<0.23	<0.23	<0.24	0.70 J	1.40	NA	<0.040	***2.78***
	10/19/12	317.78	16.74	NA	301.04	-	-	-	-	-	-	-	<0.040	***1.41***
	11/15/12	317.78	16.62	NA	301.16	0.37 J	<0.23	<0.23	<0.24	0.37 J	1.10	NA	-	-
	01/23/13	317.78	16.23	NA	301.55	2.10	<0.23	0.25 J	0.41 J	2.76 J	0.67 J	***4.9 J***	<0.040	***3.01***
	04/26/13	317.78	16.05	NA	301.73	2.20	<0.23	<0.23	<0.24	2.2	1.20	<1.1	<0.040	***1.69***
	07/19/13	317.78	15.65	NA	302.13	<0.24	<0.28	<0.23	<0.24	ND	0.48 J	<1.1	<0.038	***0.38***
	10/18/13	317.78	15.73	NA	302.05	0.67 J	<0.44	<0.21	<0.19	0.7	0.95 J	0.44 J	<0.038	***1.36***
	01/17/14	317.78	15.94	NA	301.84	0.60 J	<0.44	<0.21	<0.19	0.6	0.69 J	<0.25	<0.038	***1.53***
	04/25/14	317.78	16.07	NA	301.71	0.43 J	<0.44	<0.21	<0.19	0.43	0.43 J	0.35 J	<0.038	***1.04***
	07/08/14	317.78	16.00	NA	301.78	0.36 J	<0.22	<0.40	<0.20	0.36	1.9	<0.34	<0.038	***1.25***
	10/14/14	317.78	16.70	NA	301.08	0.22 J	<0.22	<0.40	<0.20	0.22	1.2	<0.34	<0.038	***1.06***
MW-6	11/14/05	315.48	18.09	NA	297.39	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.11***
	02/06/06	315.48	17.64	NA	297.84	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	<0.11
	05/22/06	315.48	17.91	NA	297.57	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.16***
	08/21/06	315.48	17.73	NA	297.75	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.13***
	11/20/06	315.48	17.64	NA	297.84	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.19***
	04/03/07	315.48	17.61	NA	297.87	<5.0	<5.0	<5.0	5.7	5.7	<5.0	<5.0	NA	<0.1
	07/09/07	315.48	17.73	NA	297.75	<1.0	<1.0	<2.0	<2.0	ND	<1.0	<2.0	NA	***0.072 J***
	10/22/07	315.48	18.30	NA	297.18	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.60***
	01/07/08	315.48	18.35	NA	297.13	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	NA	***0.23***
	4/1/2008	315.48	17.77	NA	297.71	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***1.6***
	7/7/2008	315.48	17.57	NA	297.91	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***0.13***
	11/18/2008	315.48	18.2	NA	297.28	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***0.2***
	1/13/2009	315.48	18.27	NA	297.21	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	***0.44***
	4/23/2009	315.48	18.11	NA	297.37	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	***0.25***
	7/20/2009	315.48	17.68	NA	297.80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.1	***0.098***
	10/29/2009	315.48	17.91	NA	297.57	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	***0.26***
	1/18/2010	315.48	17.73	NA	297.75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	***0.063***
	4/27/2010	315.48	17.03	NA	298.45	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	***0.77***
	7/27/2010	315.48	17.08	NA	298.40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<0.05
	10/28/2010	315.48	17.51	NA	297.97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.05	***0.58***
	1/24/2011	315.48	NM	NM	NM	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen	Frozen
	4/20/2011	315.48	17.35	NA	298.13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.011	***3.51***
	7/7/2011	315.48	17.73	NA	297.75	<0.22	<0.15	<0.21	<0.17	ND	<0.18	<0.68	<0.016	***3.57***
	10/24/2011	315.48	17.46	NA	298.02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***2.06***
	1/9/2012	315.48	17.37	NA	298.11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***1.50***
	4/19/2012	315.48	17.84	NA	297.64	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<0.016	***1.05***
	7/23/2012	315.48	18.18	NA	297.30	<0.24	<0.23	<0.23	<0.24	<0.23	<0.16	NA	<0.040	***1.07***
	10/19/2012	315.48	18.03	NA	297.45	-	-	-	-	-	-	-	<0.040	***<0.053***
	11/15/2012	315.48	18.49	NA	296.99	<0.24	<0.23	<0.23	<0.24	<0.23	<0.16	NA	-	-
	1/23/2013	315.48	18.24	NA	297.24	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.040	***1.82***
	4/26/2013	315.48	17.72	NA	297.76	2.0	<0.23	<0.23	<0.24	2.0	<0.16	<1.1	<0.040	***0.677***
	7/19/2013	315.48	16.59	NA	298.89	<0.24	<0.23	<0.24	<0.24	ND	<0.16	<1.1	<0.38	***0.375***
	10/18/2013	315.48	16.91	NA	298.57	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.557***
	1/17/2014	315.48	17.55	NA	297.93	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.845***
	4/25/2014	315.48	17.38	NA	298.10	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.809***
	7/8/2014	315.48	17.28	NA	298.20	0.27 J	<0.22	<0.40	<0.20	0.27	<0.26	<0.34	<0.038	<0.080
	10/14/2014	315.48	17.78	NA	297.70	0.22 J	<0.22	<0.40	<0.20	0.22	<0.26	<0.34	<0.038	***0.693***

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)
MW-7	4/23/2009	317.09	15.16	NA	301.93	***24***	<5.0	<5.0	<5.0	24	<5.0	<5.0	***0.13***	***2.3***
	7/20/2009	317.09	16.29	NA	300.8	***19***	<5.0	<5.0	<5.0	19	<5.0	<5.0	***0.14***	***1.6***
	10/29/2009	317.09	17.17	NA	299.92	***22***	<1.0	1.3	1.6	24.9	<1.0	<1.0	***0.19***	***3.2***
	1/18/2010	317.09	17.11	NA	299.98	***12***	<1.0	<1.0	1.1	13.1	<1.0	<0.1	***0.11***	***2.4***
	4/27/2010	317.09	15.96	NA	301.13	***13***	<1.0	<1.0	4	17	<1.0	***3.1***	<0.1	***2.8***
	7/27/2010	317.09	17.08	NA	300.01	***11***	<1.0	<1.0	1.1	12.1	<1.0	***1.1***	***0.11***	***1.8***
	10/28/2010	317.09	17.03	NA	300.06	***7.8***	<1.0	<1.0	1.2	9	<1.0	<1.0	***0.11***	***1.5***
	1/24/2011	317.09	18.13	NA	298.96	***5***	<1.0	<1.0	0.32 J	5.32	0.42 J	NA	<0.011	***2.66***
	4/20/2011	317.09	15.99	NA	301.1	4.7	<1.0	0.67 J	0.86 J	6.23	<1.0	NA	<0.011	***8.43***
	7/7/2011	317.09	15.99	NA	301.1	4.8	<0.15	0.70J	1.5	7.0	<1.0	***3.0 J***	<0.016	***9.61***
	10/24/2011	317.09	14.79	NA	302.3	2.2	<1.0	0.23 J	2.3	4.7	<1.0	NA	<0.016	***5.33***
	1/9/2012	317.09	15.2	NA	301.89	***6.3***	0.4	2.8	1.6	11.1	<1.0	NA	<0.016	***2.68***
	4/19/2012	317.09	16.04	NA	301.05	4.4	<1.0	1.4	0.53 J	6.3	<1.0	NA	<0.016	***5.02***
	7/23/2012	317.09	16.26	NA	300.83	2.7	<0.23	0.57 J	0.65 J	3.9	0.29 J	NA	<0.040	***7.42***
	10/19/2012	317.09	17.17	NA	299.92	-	-	-	-	-	-	-	<0.040	***2.95***
	11/15/2012	317.09	16.09	NA	301	3.5	<0.23	0.33 J	<0.24	3.83 J	0.21 J	NA	-	-
	1/23/2013	317.09	13.38	NA	303.71	1.4	0.50 J	0.25 J	0.26 J	2.41 J	<0.16	***1.8 J***	<0.040	***10.2***
	4/26/2013	317.09	11.91	NA	305.18	1.9	<0.23	2.0	3.1	7.0	<0.16	***12.9***	<0.040	***9.36***
	7/19/2013	317.09	9.87	NA	307.22	***8.4***	0.58 J	16.1	16.8	25.1	<0.16	***76.7***	***0.222***	***5.7***
	10/18/2013	317.09	10.12	NA	306.97	***5.9***	<0.44	5.0	4.6	15.5	<0.29	***26.6***	<0.038	***4.28***
	1/17/2014	317.09	10.93	NA	306.16	***5.7***	<0.44	3.8	2.4	11.9	<0.29	***19.9***	<0.038	***3.08***
	4/25/2014	317.09	11.43	NA	305.66	3.7	<0.44	3.3	0.92 J	7.9	<0.29	***5.7***	<0.038	***1.96***
	7/8/2014	317.09	10.25	NA	306.84	2.3	<0.22	0.83 J	<0.20	3.1	<0.26	***9.3***	<0.038	***1.89***
	10/14/2014	317.09	12.11	NA	304.98	3.5	<0.22	3.4	0.97 J	7.9	<0.26	***10.2***	<0.038	***1.89***
MW-8	4/23/2009	318.22	15.45	1.57	303.95	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/20/2009	318.22	15.33	2.28	304.60	***52***	92	78	430	652	<5	***310***	***6.9***	***1000***
	10/29/2009	318.22	15.52	3.25	305.14	***23***	42	64	308	437	<5.0	***230***	***12***	***4900***
	1/18/2010	318.22	15.48	2.35	304.50	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/27/2010	318.22	14.5	1.18	304.61	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/28/2010	318.22	14.42	0.52	304.19	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/24/2011	318.22	14.68	1.19	304.43	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/20/2011	318.22	14.14	0.92	304.77	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/7/2011	318.22	14.25	1	304.72	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/24/2011	318.22	14.44	1.53	304.93	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/19/2012	318.22	14.42	0.49	304.17	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/23/2012	318.22	14.19	NA	304.03	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/19/2012	318.22	14.65	NA	303.57	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/23/2013	318.22	4.24	NA	313.98	<0.24	<0.23	<0.23	<0.24	ND	<0.16	1.3 J	<0.040	***20.4***
	4/26/2013	318.22	3.87	NA	314.35	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.040	***2.66***
	7/19/2013	318.22	3.47	NA	314.75	<0.24	<0.23	<0.23	<0.24	ND	<0.16	<1.1	<0.038	***0.202***
	10/18/2013	318.22	3.72	NA	314.50	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.319***
	1/17/2014	318.22	4.44	NA	313.78	<0.28	<0.44	<0.21	<0.19	ND	<0.29	<0.25	<0.038	***0.717***
	4/25/2014	318.22	12.04	NA	306.18	<0.28	<0.44	1.1	0.62 J	1.72 J	<0.29	***5.6***	<0.038	***15.1***
	7/8/2014	318.22	8.03	NA	310.19	<0.21	<0.22	<0.40	4.7	4.7	<0.26	***1.2 J***	<0.038	***3.56***
	10/14/2014	318.22	12.66	NA	305.56	0.38 J	<0.22	<0.40	7.3	7.68	<0.26	***1.2 J***	<0.038	***13.0***
MW-9	10/28/2010	317.73	18.96	NA	298.77	3.3	<1.0	<1.0	<1.0	3.3	1.2	<1.0	<0.05	***3.2***
	1/24/2011	317.73	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	4/20/2011	317.73	13.84	NA	303.89	***6.8***	0.38 J	0.94 J	1.3	9.42	0.55 J	NA	<0.011	***9.23***
	7/7/2011	317.73	13.82	NA	303.91	***6.9***	<0.15	<0.21	<0.17	6.9	0.31 J	***5.1***	<0.016	***5.42***
	10/24/2011	317.73	13.71	NA	304.02	***6.2***	<1.0	0.48 J	0.57 J	7.25	<1.0	NA	<0.016	***7.18***
	1/9/2012	317.73	13.84	NA	303.89	4.8	<1.0	0.33 J	<1.0	5.13	0.34 J	NA	<0.016	***9.12***
	4/19/2012	317.73	14	NA	303.73	3.4	<1.0	<1.0	<1.0	3.4	0.42 J	NA	0.016	***5.15***
	7/23/2012	317.73	21.39	NA	296.34	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/19/2012	317.73	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	11/15/2012	317.73	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	-
	1/23/2013	317.73	13.04	NA	304.69	2.6	<0.23	1.2	2.7	6.5	0.38 J	***11.1***	<0.040	***31.0***
	4/26/2013	317.73	13.34	NA	304.39	***5.8***	<0.23	1.6	2.4	9.8	0.82 J	***19.2***	<0.040	***6.2***
	7/19/2013	317.73	13.05	NA	304.68	<0.24	<0.23	3.4	1.6	5	0.41 J	***13.2***	<0.038	***7.07***
	10/18/2013	317.73	13.17	NA	304.56	2.4	<0.44	1	1.1	4.5	<0.29	***7.5***	<0.038	***3.14***
	1/17/2014	317.73	13.33	NA	304.4	4.0	<0.44	0.32 J	0.29 J	4.61	0.37 J	***11.4***	***0.214***	***4.59***
	4/25/2014	317.73	13.55	NA	304.18	2.3	<0.44	0.39 J	0.76 J	3.45	<0.29	***11***	***0.38***	***168***
	7/8/2014	317.73	12.85	NA	304.88	1.5	<0.22	0.44 J	0.91 J	2.85	<0.26	***26.1***	***0.346***	***89.2***
	10/14/2014	317.73	13.52	NA	304.21	3.0	<0.22	<0.40	0.23 J	3.23	<0.26	***6.0***	<0.038	***11.8***
MW-10	10/28/2010	317.19	23.07	NA	294.12	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/24/2011	317.19	23.84	NA	293.35	***12.4***	<3.0	14.9	65.1	87.4	8.2 J	NA	***4.61***	NA
	4/20/2011	317.19	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	7/7/2011	317.19	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	10/24/2011	317.19	DRY	NA	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-10R	4/19/2012	Unknown	28.01	NA	Unknown	0.63 J	<1.0	<1.0	<1.0	0.63 J	0.32 J	NA	<0.016	***5.06***
	7/23/2012	Unknown	28.04	NA	Unknown	***9.2***	<0.23	<0.23	<0.24	9.2	2.2	NA	***0.238***	***70.4***
	10/19/2012	Unknown	28.71	NA	Unknown	-	-	-	-	-	-	-	***0.205***	***3490 a***
	11/15/2012	Unknown	28.53	0.03	Unknown	NS	NS	NS	NS	NS	NS	NS	-	-
	1/23/2013	Unknown	27.52	NA	Unknown	3.9	0.23	0.87 J	2.2	7.2 J	2.2	***20.3***	***0.936***	***766 a***
	4/26/2013	Unknown	27.36	NA	Unknown	***5.2***	<0.23	<0.23	1	6.2	1.7	***7.2***	<0.040	***54.9***
	7/19/2013	Unknown	27.11	NA	Unknown	***18.5***	<0.23	<0.23	1.3	19.8	1.3	***13.3***	***0.525***	***337***
	10/18/2013	Unknown	27.28	NA	Unknown	***12***	<0.44	<0.21	0.80 J	12.8	0.78 J	***7.1***	***4.48***	***116***
	1/17/2014	Unknown	27.52	NA	Unknown	***7.9***	<0.44	<0.21	<0.19	7.9	<0.29	***10.5***	***3.24***	***44.3***
	4/25/2014	Unknown	27.82	NA	Unknown	***5.7***	<0.44	<0.21	<0.19	5.7	0.50 J	***5.3***	***0.224***	***45.6***
	7/8/2014	Unknown	27.39	NA	Unknown	***6.1***	<0.22	<0.40	<0.20	6.1	0.45 J	***5.9***	<0.038	***26.7***
	10/14/2014	Unknown	27.58	NA	Unknown	4.7	<0.22	<0.40	<0.20	4.7	<0.26	***7.9***	<0.038	***23.7***

Table 1

GROUNDWATER GAUGING AND ANALYTICAL DATA SUMMARY

Pilot Travel Center #290
31 Heather Lane
Perryville, Maryland

Well ID	Date	Well Elevation	DTW	Product Thickness	GW Elevation (Corrected)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	BTEX (µg/l)	MTBE (µg/l)	Naphthalene (ug/l)	TPH-GRO (mg/L)	TPH - DRO (mg/l)
TF-1	1/23/2013		3.02	NA		<0.24	<0.23	1.5	1.9	3.4	<0.16	***6.3***	<0.040	***16.0***
	4/26/2013		2.72	NA		<0.24	0.77 J	1.9	8.2	10.87	<0.16	***5***	***0.216***	***13.3***
	7/19/2013		2.32	NA		<0.24	<0.23	0.84 J	1.6	1.24	<0.16	***4 J***	<0.038	***15.8***
	10/18/2013		2.59	NA		<0.28	<0.44	0.28 J	0.41 J	0.69	<0.29	***1.7 J***	<0.038	***3.9***
	1/17/2014		3.28	NA		0.60 J	5.0	1.3	7.9	14.8	<0.29	***2.3 J***	<0.038	***2.7***
	4/25/2014		5.39	NA		0.55	29.5	52.1	286	368.2	<0.29	***42.3***	***1.89***	***61.4***
	7/8/2014		3.73	NA		5.1	91.3	49.5	366	511.9	<0.26	***61.3***	***6.11***	***248 a***
	10/14/2014		6.11	NA		1.2	14.9	29.7	356	401.8	<0.26	***55.5***	***5.70***	***1370 a***
TF-2	1/23/2013		3.08	NA		0.30 J	<0.23	1.1	2.2	3.6	<0.16	***8.1***	<0.040	***49.3***
	4/26/2013		2.77	NA		<0.24	2.9	1.6	5.1	9.6	<0.16	***5.3***	<0.040	***11.5***
	7/19/2013		2.37	NA		<0.24	<0.23	1.5	3.2	4.7	<0.16	***12.7***	<0.038	***3.81***
	10/18/2013		2.65	NA		<0.28	<0.44	0.60 J	0.25 J	0.85	<0.29	***9.2***	<0.038	***2.26***
	1/17/2014		3.35	NA		<0.28	0.98 J	2.0	17	19.98	<0.29	***2.4 J***	<0.038	***5.02***
	4/25/2014		5.45	NA		0.73	1.2	1.7	9.1	12.73	<0.29	***3.0J***	***0.214***	***5.62***
	7/8/2014		3.77	NA		0.53	21.3	32.4	306	360.23	<0.26	***62.0***	***2.09***	***5.14***
	10/14/2014		6.19	NA		0.30 J	1.8	7.1	60.9	70.10	<0.26	***13.9***	***0.642***	***11.7***

Notes:

TOC = Top of Casing
LPH = Liquid Phase Hydrocarbons (thickness in feet)
BTEX = Benzene, toluene, ethylbenzene and xylenes
MTBE = methyl tert butyl ether
TPH - GRO = total petroleum hydrocarbons - gasoline range organics
TPH - DRO = total petroleum hydrocarbons - diesel range organics
MDE Groundwater Standards for Type I and Type II Aquifers
Bolded values indicate concentrations above MDE standards.

µg/l = micrograms per liter
mg/l = milligrams per liter
< = Concentration is less than the detection limit

Table 2 - DPE OPERATION DATA
Pliot Travel Center #290
31 Heather Lane, Perryville, MD

Date	Operating Status		Operating Hours	Cumulative Operating Hours	Downtime	Inlet Vacuum	MW-2 Vacuum	MW-8 Vacuum	Discharge Stack Temp.	Transfer Pump Total	GW Recovered	Cum. GW Recovered	Pump Rate	Storage Tank Level	Storage Tank Volume	Process Flow Rate	Process Vapor Conc.	TPH Recovery Vapor	TPH Recovery Cum.	Comments
	Arrival	Departure	[hours]	[hours]	[hours]	[in hg]	[in hg]	[in hg]	[^{0}F]	[gallons]	[gallons]	[gallons]	[gal/min]	[inches]	[gallons]	[scfm]	[ppmv]	(lbs)	(lbs)	
5/9/2012		Off	1	0	0	9	9.0	9.0	-	323,610	0	0	-	-	-	50	**38.0**	0.069	0.1	
5/11/2012	On	On	48	48	0	8	6.0	7.0	130	325,580	1,970	1,970	0.68	12.00	2,146.3	50	**30.0**	2.601	2.7	
5/16/2012	On	On	120	168	0	9	6.0	8.0	125	329,310	3,730	5,700	0.52	31.68	5,805.6	50	30.0	6.502	9.2	
5/18/2012	On	On	48	216	0	8	2.5	7.5	125	330,960	1,650	7,350	0.57	38.28	7,094.3	50	30.0	2.601	11.8	
5/25/2012	Off	On	144	360	24	9	7.0	9.0	100	335,570	4,610	11,960	0.53	58.32	10,884.6	50	30.0	7.803	19.6	
6/1/2012	Off	On	8	368	160	9	5.0	9.0	145	335,880	310	12,270	0.65	58.32	10,884.6	50	30.0	0.433	20.0	
6/8/2012	On	On	168	536	0	8.5	3.0	7.5	125	343,060	7,180	19,450	0.71	52.08	9,925.0	50	30.0	9.103	29.1	Lorco disposed of 6,200 gallons from storage tank.
6/15/2012	Off	On	53	589	115	8.5	4.5	8.5	140	345,330	2,270	21,720	0.71	39.48	7,278.4	50	**10.0**	0.957	30.1	Lorco disposed of 6,200 gallons from storage tank.
6/22/2012	On	On	168	757	0	9	5.0	11.5	150	352,440	7,110	28,830	0.71	54.60	10,116.5	50	10.0	3.034	33.1	
6/28/2012	Off	Off	9	766	135	9	6.0	8.0	100	352,840	400	29,230	0.71	57.48	10,692.2	50	10.0	0.170	33.3	Lorco disposed of 6,489 gallons from storage tank.
7/10/2012	Off	On	0	766	288	10	6.0	13.5	110	352,850	10	29,240		57.48	10,692.2	50	10.0	0.000	33.3	
7/19/2012	Off	Off	0	766	216		0.0	0.0		352,860	10	29,250		57.48	10,692.2	50	10.0	0.000	33.3	
7/23/2012	Off	On	0	766	96		0.0	0.0								50	10.0	0.000	33.3	
7/30/2012	On	On	168	934	0	10	5.0	10.5	124	352,860	0	29,250		57.84	10,692.2	50	10.0	3.034	36.3	
8/9/2012	Off	On	0	934	240	9.5	6.0	10.0	90	352,860	0	29,250		23.64	3,964.6	50	10.0	0.000	36.3	Lorco disposed of 3,930 gallons from storage tank.
8/17/2012	On	On	192	1126	0	10	6.0	7.5	125	358,620	5,760	35,010	0.50	29.52	5,253.3	50	10.0	3.468	39.8	
8/24/2012	On	On	168	1294	0	9.5	5.0	6.0	120	363,150	4,530	39,540	0.45	49.68	8,664.9	50	10.0	3.034	42.8	Lorco disposed of 6,661 gallons from storage tank.
8/31/2012	On	On	168	1462	0	10	6.0	7.0	125	367,530	4,380	43,920	0.43	31.00	5,253.3	50	10.0	3.034	45.8	
9/7/2012	On	On	168	1630	0	9.5	6.0	7.5	120	371,750	4,220	48,140	0.42	51.00	8,859.0	50	10.0	3.034	48.9	
9/14/2012	On	On	168	1798	0	10	7.0	10.0	100	375,710	3,960	52,100	0.39	65.64	11,758.6	50	10.0	3.034	51.9	Lorco disposed of 6,320 gallons from storage tank.
9/21/2012	On	On	168	1966	0	9.5	8.0	8.0	100	379,940	4,230	56,330	0.42	46.20	8,019.1	50	10.0	3.034	54.9	Lorco disposed of 6,298 gallons from storage tank.
9/28/2012	On	On	168	2134	0	10	6.0	9.5	110	383,950	4,010	60,340	0.40	29.00	4,885.1	50	10.0	3.034	58.0	Raised tube in MW-2; was 18' from TOC, now 16' from TOC
10/5/2012	On	On	168	2302	0	8	6.0	8.0	108	387,670	3,720	64,060	0.37	49.20	8,590.3	50	**50.5**	15.324	73.3	Installed transformer in remediation shed.
10/12/2012	On	On	164	2466	4	7	5.0	5.0	80	391,120	3,450	67,510	0.35	64.44	11,463.0	50	50.5	14.959	88.3	Lorco disposed of 6,396 gallons from storage tank.
10/18/2012	On	Off	144	2610	0	9.5	6.5	7.5	98	395,640	4,520	72,030	0.52			50	50.5	13.135	101.4	System shut-down for Groundwater Sampling.
10/19/2012	Off	On	0	2610	28	8	5.0	6.5	94	395,650	10	72,040		45.24	7,828.7	50	50.5	0.000	101.4	Lorco disposed of 6,298 gallons from storage tank. System Restart.
10/26/2012	On	On	168	2778	0	6	6.5	0.0	100	399,500	3,850	75,890	0.38	22.08	3,964.6	50	50.5	15.324	116.7	
11/2/2012	Off	On	142	2920	26	8.5	6.0	6.0	85	402,765	3,265	79,155	0.38	34.44	6,173.8	50	**16.1**	4.129	120.9	System off on arrival. System restarted.
11/8/2012	On	On	144	3064	0	8	6.0	6.0	86	409,104	6,339	85,494	0.73	55.00	9,637.8	50	16.1	4.187	125.0	Lorco disposed of 6,443 gallons from the storage tank.
11/15/2012	Off	Off	65	3129	103					411,950	2,846	88,340	0.73	26.40	4,332.8	50	16.1	1.890	126.9	System found off on arrival.
11/21/2012	Off	On	0	3129	144	11	6.5	7.5	70	411,950	0	88,340				50	16.1	0.000	126.9	System restarted.
11/30/2012	Off	On	2	3131	214	10	6.0	6.5	76	412,040	90	88,430	0.75	27.48	4,676.1	50	16.1	0.058	127.0	System found off on arrival. Lorco disposed of 4678 gallons from storage tank. System restarted.
12/7/2012	On	On	168	3299	0	10	5.0	6.0	72	415,520	3,480	91,910	0.35	22.20	3,624.5	50	**4.4**	1.335	128.3	
12/21/2012	On	On	336	3635	0	9	6.0	7.5	80	421,240	5,720	97,630	0.28	52.08	9,054.7	50	4.4	2.670	131.0	Space heater put in compound for winter.
12/28/2012	On	On	168	3803	0	10.5	5.5	6.0	72	424,220	2,980	100,610	0.30	64.80	11,566.9	50	4.4	1.335	132.3	Lorco disposed of 6,348 gallons from the storage tank.
1/4/2013	Off	On	35	3838	133	15.5	12.0	14.0	80	430,380	6,160	106,770	2.93	59.16	10,412.1	50	**16.5**	1.043	133.4	Discharge Line to storage tank was insulated to prevent freezing.
1/11/2013	On	On	168	4006	0	9.5	6.0	5.5	74	439,180	8,800	115,570	0.87	96.24	17,358.2	50	16.5	5.007	138.4	Lorco disposed of 6,444 gallons from the storage tank.
1/18/2013	On	On	168	4174	0	9.5	6.5	5.0	64	448,130	8,950	124,520	0.89	91.92	16,621.8	50	**2.2**	0.668	139.0	Lorco disposed of 6,396 gallons from the storage tank.
1/22/2013	Off	Off	72	4246	96					455,000	6,870	131,390	1.59	76.08	13,665.6	50			139.0	System off on arrival due to icing issues. System will remain off until repairs can be made.
1/23/2013	Off	Off	0	4246	0					455,000	0	131,390		76.08	13,665.6	50			139.0	Lorco disposed of 6,348 gallons from the storage tank. Raised tube in MW-2; was 16' TOC, now 13.8' TOC.
1/29/2013	Off	On	0	4246	144	15	12.0	0.0	148	455,130	130	131,520		41.76	7,115.6	51	2.2	0.000	139.0	System repairs: replaced transfer pump; insulated compound; insulated/heat traced discharge line. Restart.
2/1/2013	On	On	72	4318	0	14.5	12.0	0.0	142	456,720	1,590	133,110	0.37	50.52	8,762.4	52	**2.2**	0.286	139.3	
2/8/2013	On	On	168	4486	0	15	12.0	0.0	150	459,770	3,050	136,160	0.30	64.92	11,566.4	52	**3.8**	1.153	140.5	
2/15/2013	Off	On	18	4504	150	12.5	10.0	0.0	118	460,110	340	136,500	0.32	65.52	11,662.8	52	3.8	0.122	140.6	System off on arrival from high level. Lorco disposed of 4,891 gallons from the storage tank.
2/22/2013	Off	On	28	4532	140	9	9.0	0.0	120	460,720	610	137,110	0.36	46.00	7,882.5	52	3.8	0.193	140.8	System off on arrival from high level.
3/1/2013	Off	On	1	4534	167	11	7.5	9.0	100	460,760	40	137,150	0.51	46.08	7,882.5	52	**3.4**	0.008	140.8	System off on arrival from high level. Altered drop tube depth in MW-2: 15 ft. Turned MW-8 on.
3/8/2013	On	On	166	4700	0	10	8.0	10.0	130	466,370	5,610	142,760	0.56	70.92	12,713.7	52	**1.0**	0.300	141.1	
3/15/2013	Off	On	72	4772	96	9	6.0	7.0	120	468,910	2,540	145,300	0.59	81.12	14,596.7	52	**1.8**	0.235	141.3	System off on arrival from high level. Lorco disposed of 6,396 gallons from the storage tank.
3/22/2013	Off	On	7	4779	161	9.5	7.0	8.5	120	469,180	270	145,570	0.66	49.68	8,567.3	52	**1.9**	0.023	141.4	System off on arrival from high level. Changed high level float switch in knock-out tank.
3/29/2013	On	On	167	4946	0	10	7.0	11.0	140	475,890	6,710	152,280	0.67	74.04	13,284.8	52	**2.2**	0.664	142.0	
4/5/2013	On	On	166	5112	0	9	5.5	7.0	112	483,747	7,857	160,137	0.79	101.50	18,370.8	52	**6.1**	1.827	143.9	Lorco disposed of 6,444 gallons from the storage tank.
4/12/2013	On	On	169	5281	0	8	3.5	4.0	135	493,099	9,352	169,489	0.92	59.40	10,412.1	52	**2.2**	0.672	144.5	Lorco disposed of XXXX gallons from the storage tank. Lowered vacuum to pull less water.
4/19/2013	Off	Off	108	5389	60					529,612	36,513	206,002	5.63	91.20	16,437.7	52	2.2	0.429	145.0	System shut off 4/16 because frac tank was full. Lorco disposed of 6,875 gallons from the storage tank.
4/26/2013	Off	Off	2	5391	168	10	7.0	0.0	132	529,770	159	206,160	1.39	32.64	5,459.5	52	**1.4**	0.005	145.0	Lorco disposed of 6, 266 gallons from the storage tank. Ran pump test to remove product from MW-2.
5/2/2013	Off	Off	1	5392	143	9.5	10.0	0.0	130	529,820	50	206,210	0.76	33.00	5,546.3	52	**0.1**	0.000	145.0	Ran pump test to remove product from MW-2.
5/9/2013	Off	Off	3	5395	165	9.5	7.0	0.0	139	529,948	128	206,338	0.74	33.00	5,546.3	52	0.1	0.001	145.0	Ran pump test to remove product from MW-2.
5/17/2013	Off	Off	1	5396	191	13.5	13.5	0.0	160	530,010	62	206,400	0.74	33.60	5,546.3	52	**3.8**	0.010	145.0	Ran pump test to remove product from MW-2.
5/24/2013	Off	On	1	5397	167	12.5	9.0	0.0	132	530,057	47	206,447	0.78	33.12	5,546.3	52	3.8	0.007	145.0	Ran pump test to remove product from MW-2. Installed high tank level float in frac tank.
5/31/2013	On	On	165	5562	0	13	12.0	0.0	160	534,350	4,293	210,740	0.43	22.44	3,624.5	52	3.8	1.132	146.1	Lorco disposed of 6,489 gallons from storage tank.
6/7/2013	On	On	168	5730	0	9.5	12.0	0.0	140	538,420	4,070	214,810	0.40	9.60	1,500.3	52	**0.3**	0.091	146.2	Lorco disposed of about 5,991 gallons from storage tank. Altered drop tube depth in MW-2: 10.5 ft.
6/14/2013	On	On	169	5899	0	14	11.0	0.0	142	546,800	8,380	223,190	0.83	51.60	8,957.3	52	**0.5**	0.152	146.4	
6/21/2013	On	On	166	6065	0	11	6.0	0.0	140	548,810	2,010	225,200	0.20	60.60	10,797.9	52	**0.5**	0.150	146.5	
6/28/2013	On	On	170	6235	0	10	6.0	0.0	153	549,130	320	225,520	0.03	62.40	11,086.7	52	**0.1**	0.031	146.5	
7/3/2013	On	On	118	6353	0	12	9.5	0.0	150	549,490	360	225,880	0.05	29.40	4,850.6	52	0.1	0.021	146.6	Lorco disposed of 6,628 gallons from the storage tank.
7/12/2013	On	On	218	6571	0	12	8.0	0.0	150	555,660	6,170	232,050	0.47	54.84	9,637.8	52	**0.6**	0.237	146.8	
7/18/2013	On	Off	144	6715	0					557,920	2,260	234,310	0.26			52	0.6	0.156	147.0	System shut down for upcoming GWS event.
7/19/2013	Off	On	0	6715	0	12	9.0	0.0	170	557,920	0	234,310		63.00	11,182.9	52	**0.7**	0.000	147.0	Lorco disposed of 6,442 gallons from the storage tank.
7/26/2013	On	On	161	6876	0	11	7.0	0.0	142	562,020	4,100	238,410	0.42	44.52	7,589.2	52	**0.7**	0.204	147.2	
8/2/2013	On	On	170	7046	0	11.5	12.0	0.0	155	569,440	7,420	245,830	0.73	69.36	12,523.1	52	**4.2**	1.290	148.4	
8/9/2013	On	On	165	7212	0	12	8.5	0.0	150	569,510	70	245,900	0.01	39.48	6,583.2	52	**0.0**	0.000	148.4	Lorco disposed of 6,295 gallons from the storage tank.
8/16/2013	Off	On	101	7313	67	16	16.0	0.0	160	571,680	2,170	248,070	0.36	47.28	8,078.5	52	0.0	0.000	148.4	
8/23/2013	On	On	166	7479	0	15	13.0	0.0	150	579,720	8,040	256,110	0.81	83.28	14,964.9	52	**34.1**	10.212	158.7	Lorco disposed of 6,295 gallons from the storage tank. 0.01 feet of product was detected in the storage tank.
8/30/2013	Off	Off	161	7640	7					587,426	7,706	263,816	0.80	87.00	15,701.3	52	34.1	9.929	168.6	System down on arrival due to high storage tank level.
9/4/2013	Off	On	0	7640	120	9.5	8.5	0.0	122	587,440	14	263,830	0.57			52	34.1	0.025	168.6	Lorco disposed of 6,500 gallons from the storage tank. System restarted.
9/6/2013	On	On	47	7688	0	7	6.5	0.0	126	588,950	1,510	265,340	0.53	58.80	10,218.9	52	34.1	2.919	171.5	
9/13/2013	Off	On	163	7851	5	6	6.0	0.0	120	592,880	3,930	269,270	0.40	74.40	13,284.8	52	**1.1**	0.324	171.9	Lorco disposed of 6,443 gallons from the storage tank.
9/20/2013	On	On	160	8011	0	7	6.0	0.0	125	596,650	3,770	273,040	0.39	55.80	9,831.7	52	1.1	0.318	172.2	
9/26/2013	On	On	154	8165	0	6.5	6.0	0.0	130	599,960	3,310	276,350	0.36	67.80	12,141.3	52	1.1	0.305	172.5	Lorco disposed of 6,534 gallons from the storage tank.
10/4/2013	On	On	188	8353	0	7.5	6.0	0.0	132	603,699	3,739	280,089	0.33	45.96	7,882.5	52	**32.3**	10.980	183.5	Lorco disposed of 6,538 gallons from the storage tank.
10/11/2013	Off	Off	80	8433	88					605,120	1,421	281,510	0.30	14.40	2,210.4	52	32.3	4.679	188.1	System off on arrival due to KO tank high level. System left off for upcoming GWS event.

Date	Operating Status		Operating Hours	Cumulative Operating Hours	Downtime	Inlet Vacuum	MW-2 Vacuum	MW-8 Vacuum	Discharge Stack Temp.	Transfer Pump Total	GW Recovered	Cum. GW Recovered	Pump Rate	Storage Tank Level	Storage Tank Volume	Process Flow Rate	Process Vapor Conc.	TPH Recovery Vapor	TPH Recovery Cum.	Comments
	Arrival	Departure	[hours]	[hours]	[hours]	[in hg]	[in hg]	[in hg]	[^{0}F]	[gallons]	[gallons]	[gallons]	[gal/min]	[inches]	[gallons]	[scfm]	[ppmv]	(lbs)	(lbs)	
10/18/2013	Off	On	1	8434	167	7	6.5	0.0	122	605,150	30	281,540	0.71	14.40	2,210.4	52	**7.0**	0.009	188.1	System restarted after GWS event.
10/25/2013	On	On	164	8597	0	5	5.0	0.0	105	608,010	2,860	284,400	0.29	26.16	4,326.5	52	**9.1**	2.689	190.8	
11/1/2013	On	On	167	8764	0	8.5	7.0	0.0	132	611,020	3,010	287,410	0.30	37.20	6,238.5	52	**6.3**	1.896	192.7	
11/8/2013	On	On	168	8932	0	7	6.0	4.0	108	613,810	2,790	290,200	0.28	48.00	8,274.2	52	6.3	1.913	194.6	Lorco disposed of 6,394 gallons from the storage tank. Re-started MW-8; drop tube length = 6.5'.
11/15/2013	On	On	168	9100	0	7	7.0	5.5	105	616,887	3,077	293,277	0.31	20.40	3,272.2	52	6.3	1.908	196.6	
11/22/2013	Off	Off	101	9201	67					635,050	18,164	311,440	2.99	72.00	12,904.0	52	6.3	1.154	197.7	System down on arrival due to KO tank high level alarm. System left off pending storage tank vac out.
11/27/2013	Off	On	0	9202	120	5	4.5	2.5	100	635,150	100	311,540		72.00	12,904.0	52	6.3	0.005	197.7	Lorco disposed of 6,243 gallons from the storage tank. System restarted.
12/6/2013	Off	On	72	9273	145	2.5	2.5	2.0	100	650,680	15,530	327,070	3.62	54.00	9,443.7	52	6.3	0.814	198.5	System down on arrival due to high storage tank level. Lorco disposed of 6,360 gallons from the storage tank.
12/13/2013	On	On	167	9440	0	4	4.0	3.5	90	652,260	1,580	328,650	0.16	25.92	4,326.5	52	**8.1**	2.446	201.0	Lorco disposed of 3,794 gallons from the storage tank. Changed drop tube lengths: MW-2 = 11.5' and MW-8 = 10.5'.
12/20/1013	On	On	168	9609	0	5	4.5	5.5	96	654,820	2,560	331,210	0.25	13.80	2,210.1	52	8.1	2.462	203.4	
12/27/2013	On	On	169	9778	0	5	5.0	6.0	108	656,730	1,910	333,120	0.19	22.32	3,624.5	52	8.1	2.473	205.9	
1/2/2014	On	On	145	9922	0	5.5	5.0	6.5	106	658,370	1,640	334,760	0.19	29.16	4,850.6	52	8.1	2.118	208.0	Changed drop tube lengths: MW-2 = 12.5' and MW-8 = 11.5'.
1/10/2014	On	On	187	10109	0	5	5.0	6.0	100	661,070	2,700	337,460	0.24	39.48	6,583.2	52	**5.0**	1.690	209.7	
1/16/2014	Off	Off	94	10203	50	6	3.0	3.0	94	668,010	6,940	344,400	1.23	57.84	10,218.9	52	5.0	0.847	210.6	System down on arrival due to KO tank high level alarm. System left off for upcoming GWS event.
1/17/2014	Off	On	0	10203	24					668,010	0	344,400				52	5.0	0.000	210.6	System restart after GWS event.
1/24/2014	Off	On	47	10251	121					670,690	2,680	347,080	0.94	37.26	5,372.7	52	5.0	0.427	211.0	Lorco disposed of liquids from the storage tank on 1/20/2014. System off on arrival due to icing issues. System remains off pending replacement parts.
2/3/2014	On	On	233	10484	0	7	4.0	5.0		30	30	347,110	0.00	37.26	5,372.7	52	5.0	2.104	213.1	Replaced damaged parts. Changed drop tube lengths: MW-2 = 13' and MW-8 = 13'.
2/7/2014	On	On	92	10576	0	5.5	5.0	5.0		1,260	1,230	348,340	0.22	39.60	6,756.6	52	**3.0**	0.499	213.6	Placed sump pump in frac tank for circulation. Changed drop tube lengths: MW-2 = 14' and MW-8 = 14'.
2/14/2014	On	On	167	10743	0	6.5	4.0	4.5	80	4,501	3,241	351,581	0.32	55.80	9,792.9	52	3.0	0.907	214.5	
2/21/2014	On	On	167	10910	0	8	5.0	6.5	80	6,820	2,319	353,900	0.23	67.80	12,141.3	52	3.0	0.904	215.4	Lorco disposed of 6,293 gallons from the storage tank.
2/28/2014	Off	Off	123	11033	45					8,513	1,838	355,738		45.00	7,686.4	52	3.0	0.669	216.1	System down on arrival; suspected capacitor failure. System will remain off pending replacement parts. Lorco disposed of 6,238 gallons.
3/7/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	System will remain off pending replacement parts.
3/14/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
3/21/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
3/28/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
4/4/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
4/11/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
4/17/2014	Off	Off	0	11033	144						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
4/25/2014	Off	Off	0	11033	192						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
5/2/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
5/9/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
5/16/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
5/23/2014	Off	Off	0	11033	168						0	355,738		45.00	7,686.4	52			216.1	Temporary system shut-down to monitor product rebound.
5/30/2014	Off	On	1	11034	167	16	15.0	0.0	134	8,538	8,538	364,276	0.46	10.92	1,677.7	52	3.0	0.005	216.1	System restarted.
5/30/2014	On	On	0	11035	0	10	9.5	0.0	124	8,550	12	364,288	0.50	10.92	1,677.7	52	3.0	0.002	216.1	
6/6/2014	On	On	165	11200	0	11	10.0	0.0	140	10,716	2,166	366,454	0.22	22.68	3,800.3	52	3.0	0.895	217.0	
6/13/2014	On	On	169	11368	0	11	10.0	12.0	142	12,831	2,115	368,569	0.21	35.64	5,978.9	52	**31.0**	9.446	226.4	
6/20/2014	Off	On	63	11432	105	10	10.5	8.5	82	13,679	848	369,417	0.22	39.24	6,583.2	52	31.0	3.544	230.0	System down on arrival due to high knock out level alarm. System restarted.
6/25/2014	Off	Off	12	11444	108					13,863	184	369,601	0.25	41.52	6,934.1	52	31.0	0.678	230.6	System down on arrival due to high knock out level alarm. System left off to monitor product. Lorco disposed of 6,242 gallons.
7/2/2014	Off	Off	0	11444	168						0	369,601		10.80	1,677.7	52			230.6	Temporary system shut-down to monitor product rebound.
7/8/2014	Off	Off	0	11444	144						0	369,601		10.80	1,677.7	52			230.6	Temporary system shut-down to monitor product rebound.
7/16/2014	Off	Off	0	11444	192						0	369,601		10.80	1,677.7	52			230.6	Temporary system shut-down to monitor product rebound.
7/30/2014	Off	Off	0	11444	336						0	369,601		10.80	1,677.7	52			230.6	Temporary system shut-down to monitor product rebound.
8/13/2014	Off	Off	0	11444	336						0	369,601		10.80	1,677.7	53			230.6	Temporary system shut-down to monitor product rebound.
8/27/2014	Off	Off	0	11444	336						0	369,601		10.80	1,677.7	54			230.6	Temporary system shut-down to monitor product rebound.
9/10/2014	Off	Off	0	11444	336					13,871	9	369,610	0.48	11.88	1,855.2	55	31.0	0.017	230.7	System restarted to remove product from MW-2. System shut off before departure.
9/17/2014	Off	Off	0	11444	168						0	369,610		11.88	1,855.2	56			230.7	Temporary system shut-down to monitor product rebound.
9/24/2014	Off	Off	0	11444	168						0	369,610		11.88	1,855.2	57			230.7	Temporary system shut-down to monitor product rebound.
10/1/2014	Off	Off	0	11444	168						0	369,610		11.88	1,855.2	58			230.7	Temporary system shut-down to monitor product rebound.
10/8/2014	Off	Off	0	11444	168						0	369,610		11.88	1,855.2	59			230.7	Temporary system shut-down to monitor product rebound.
10/14/2014	Off	Off	0	11444	144						0	369,610		11.88	1,855.2	60			230.7	Temporary system shut-down to monitor product rebound.
10/29/2014	Off	Off	1	11445	360					13,886	15	369,624	0.49	11.88	1,855.2	61	31.0	0.028	230.7	System restarted to remove product from MW-2. System shut off before departure.

Table 3
Monitoring Well Gauging Data
Pilot #290
Perryville, Maryland

Date	DTP / DTW [feet]											
	MW-2	MW-8	TF-1	TF-2	MW-4	MW-5	MW-7	MW-1	MW-3	MW-9	MW-10	MW-6
5/9/2012	17.16/17.80	13.90/14.26	8.37/8.38	8.46	28.02	15.02	15.94	12.26	11.28	--	--	17.90
5/11/2012	15.16/15.17	16.00	8.29/8.31	8.39	26.54	16.37	16.15	12.62	11.46	21.29	28.37	18.03
5/16/2012	15.14/15.16	16.00	8.30	8.40	26.55	16.33	16.13	12.60	11.42	21.28	28.34	18.01
6/15/2012	14.75	15.2	7.91	8.00	28.10	16.35	16.06	12.57	11.34	21.30	--	--
7/23/2012	14.57	14.19	10.30	10.42	26.47	16.37	16.26	12.65	11.58	21.39	28.04	18.18
8/9/2012	14.52/14.69	14.17/14.21	10.09/10.12	10.21	26.30	16.35	16.26	12.73	11.67	21.65	28.05	18.02
9/7/2012	15.71/15.91	15.21	11.00/11.10	11.10/11.18	26.31	16.75	16.94	13.40	12.15	dry	28.53/28.56	18.22
10/5/2012	16.20	15.30	11.00	11.12	26.49	16.78	17.24	13.49	12.45	dry	28.66/28.76	18.13
11/8/2012	16.33	--	7.42	--	26.41	16.78	16.30	13.36	sheen/12.01	dry	28.59/28.62	18.23
12/7/2012	15.60	15.20	9.80	9.90	26.50	16.72	16.57	13.42	12.12	dry	28.47	22.85
1/4/2013	18.26	15.12	3.82	--	26.13	16.32	14.00	12.59	11.59	14.01	27.45	18.40
1/23/2013	12.36/12.38	4.24	3.02	3.08	28.17	16.23	13.38	11.94	11.14	13.04	27.52	18.24
2/15/2013	14.41	13.50	5.11	5.17	26.48	16.40	13.73	11.89	10.75	13.97	28.21	18.03
3/1/2013	sheen/13.74	13.31	5.88	5.92	26.33	16.24	13.87	11.82	10.66	13.79	28.06	17.95
4/12/2013	14.60	14.80	4.15	4.19	26.15	16.52	13.89	11.07	10.89	dry	28.45	17.43
4/19/2013	11.74/11.75	4.12	2.92	2.98	25.88	16.09	11.83	9.86	10.22	13.28	27.35	17.77
4/26/2013	12.05/12.21	3.87	2.72	2.77	25.97	16.05	11.91	10.18	9.77	13.34	27.36	17.72
5/2/2013	11.80/11.97	3.74	2.59	2.64	26.02	16.02	11.63	9.78	9.65	13.60	27.39	17.60
5/9/2013	11.65/12.00	3.63	2.48	2.55	25.62	16.01	11.24	8.38	9.53	13.63	27.25/27.30	17.35
5/17/2013	11.69/12.28	3.63	2.48	2.54	27.9	17.96	11.77	8.70	9.52	13.86	27.35/27.37	17.27
5/24/2013	11.33/11.97	3.57	2.42	2.49	25.42	15.92	10.78	7.19	9.85	13.61	27.22	16.97
5/31/2013	15.22	3.57	2.41	2.46	25.82	15.9	10.75	7.24	9.12	13.71	27.48/27.53	17.00
6/7/2013	9.17	3.28	2.12	2.20	25.50	15.82	11.06	7.13	9.10	13.47	27.42	16.90
6/28/2013	4.77	3.46	2.32	2.37	25.62	15.22	9.85	6.53	6.84	13.20	27.08	16.58
7/3/2013	5.08	3.54	2.35	2.41	25.21	15.68	6.23	6.21	7.67	12.98	27.03/27.04	--
7/19/2013	4.78	3.47	2.32	2.37	25.55	15.65	9.81	5.85	6.11	13.05	27.11	16.59
7/26/2013	6.41	3.49	--	2.40	--	--	9.36	--	--	13.16	27.15	--
8/2/2013	10.86	3.49	2.32	2.40	25.35	15.74	9.43	5.29	6.98	12.91	27.21/27.28	16.19
8/9/2013	8.80	3.47	2.32	2.39	25.55	15.65	9.70	5.52	6.44	13.07	27.10	15.57
8/16/2013	8.55	3.55	2.35	2.41	--	--	9.62	5.39	6.22	--	27.12	--
9/6/2013	10.91	3.65	2.49	2.55	25.57	15.74	9.71	5.70	6.68	13.07	27.38/27.40	16.79
10/11/2013	10.97	4.04	2.86	2.92	25.67	15.70	11.08	8.05	7.22	13.15	27.21	16.82
10/18/2013	11.25/11.41	3.72	2.59	2.65	25.71	15.73	10.12	5.94	7.08	13.17	27.28	16.91
11/1/2013	10.82	4.50	3.32	3.39	25.05	15.79	9.92	5.82	8.81	13.41	27.12	16.95
12/13/2013	10.79	10.52	4.53	4.60	25.92	15.91	11.00	8.69	9.85	13.22	27.66	17.37
1/17/2014	11.84/11.86	4.44	3.28	3.35	26.05	15.94	10.93	8.11	9.90	13.33	27.52	17.55
2/7/2014	13.16	12.21	4.58	4.64	26.25	16.24	11.77	9.65	9.81	13.84	19.97	17.58
3/7/2014	13.11	12.10	5.25	5.31	26.21	15.97	11.40	9.96	9.93	13.62	27.78	17.52
3/14/2014	13.20/13.22	12.24	--	--	--	--	--	--	--	--	--	--
3/21/2014	13.07/13.12	12.26	--	--	--	--	--	--	--	--	--	--
3/28/2014	13.15/13.17	12.28	--	--	--	--	--	--	--	--	--	--

Table 3
Monitoring Well Gauging Data
Pilot #290
Perryville, Maryland

Date	DTP / DTW [feet]											
	MW-2	MW-8	TF-1	TF-2	MW-4	MW-5	MW-7	MW-1	MW-3	MW-9	MW-10	MW-6
4/4/2014	13.09/13.14	12.18	5.34	5.41	26.18	16.00	11.54	9.27	10.14	13.64	27.78	17.55
4/11/2014	12.96/13.02	12.18	--	--	--	--	11.55	--	--	--	--	--
4/17/2014	12.85/12.97	12.25	--	--	--	--	--	--	--	--	--	--
4/25/2014	12.80/12.87	12.04	5.39	5.45	26.14	16.07	11.43	8.65	9.84	13.55	27.82	17.38
5/2/2014	11.18/11.25	7.11	--	--	--	--	--	--	--	--	--	--
5/9/2014	12.40/12.47	11.70	4.52	4.58	25.91	16.01	10.78	7.33	9.36	13.10	27.71	17.22
5/16/2014	11.99/12.06	11.48	--	--	--	--	--	--	--	--	--	--
5/23/2014	12.42/12.51	11.68	--	--	--	--	--	--	--	--	--	--
5/30/2014	11.88/11.98	11.65	--	--	--	--	--	--	--	--	--	--
6/6/2014	14.19	12.29	--	--	--	--	--	--	--	--	--	--
6/13/2014	14.14	12.05	4.54	4.61	25.88	16.00	10.95	7.96	9.66	13.13	27.70	17.02
6/20/2014	13.26	11.69	--	--	--	--	--	--	--	--	--	--
6/25/2014	12.25	10.77	--	--	--	--	--	--	--	--	--	--
7/2/2014	12.20/12.24	10.14	--	--	--	--	--	--	--	--	--	--
7/8/2014	11.51/11.56	8.03	3.73	3.77	25.93	16.00	10.25	7.21	7.94	12.85	27.39	17.28
7/16/2014	10.58/10.61	4.82	--	--	--	--	--	--	--	--	--	--
7/30/2014	10.97/10.99	4.88	--	--	--	--	--	--	--	--	--	--
8/13/2014	12.69/12.71	11.76	4.55	4.51	25.59	15.96	9.62	8.00	8.63	12.59	27.26	17.36
8/27/2014	13.06/13.12	12.22	--	--	--	--	--	--	--	--	--	--
9/10/2014	13.40/13.61	12.50	6.94/6.96	7.00	26.04	16.02	12.25	10.75	9.56	13.32	27.62	17.65
9/17/2014	13.23/13.25	12.43	--	--	--	--	--	--	--	--	--	--
9/24/2014	12.41/12.42	7.76	--	--	--	--	--	--	--	--	--	--
10/1/2014	13.20	12.43	--	--	--	--	--	--	--	--	--	--
10/8/2014	13.22/13.26	12.56	--	--	--	--	--	--	--	--	--	--
10/14/2014	13.11/13.12	12.79	6.11	6.19	25.95	16.70	12.11	10.71	10.14	13.52	27.58	17.78
10/29/2014	13.40/13.50	12.64	--	--	--	--	--	--	--	--	--	--

Table 4
Geochemical Parameters

Site Name:	Pilot #290					
Address:	Heather Lane, Perryville, MD					
Sovereign Project No.:	PL203.500					
Date/Time:	October 14, 2014					
Weather:	Mostly Cloudy, 60°					
Sample Date:	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14
Well Permit #:						
Well#:	**MW-1**	**MW-2**	**MW-3**	**MW-4R**	**MW-5**	**MW-6**
Well Diameter (inches)	4	4	4	4	4	4
Pre-Purge Data:						
PID/FID Reading (mu):	NM	NM	NM	NM	NM	NM
Product Thickness (ft):	0.00	0.03	0.00	0.00	0.00	0.00
Total Depth of Well (ft):	19.70	NM	24.79	32.80	23.89	24.65
Depth to Water (ft):	10.71	13.42	10.14	25.95	16.70	17.78
Volume of water in well (gallons):	5.84	NM	9.52	4.45	4.67	4.46
pH:	6.42	NA	6.09	6.04	6.00	5.40
Dissolved oxygen (mg/L):	7.71	NA	1.99	7.77	7.48	5.20
Temperature (°C):	22.6	NA	24.14	21.59	23.10	20.70
Turbidity NTU	16	NA	7.80	800	50.8	24.6
Salinity %	NM	NA	NM	NM	NM	NM
ORP (mV)	1	NA	-63.00	-16	-28	70
Specific conductivity mS/cm	0.580	NA	1.26	0.966	1.59	1.57
Post-Purge Data:						
Purge Start Time:	8:40	NA	9:12	12:15	11:32	9:46
Purge Stop Time:	8:58	NA	9:32	12:29	11:47	10:00
Purge Method:	submersible	NA	submersible	submersible	submersible	submersible
Purge Rate (gpm):	1	NA	1.5	1	1	1
Total Volume Purged (gallons):	18	NA	30	14	15	14
Depth to Water After Purge (ft):	11.58	NA	12.00	28.53	16.71	19.15
pH:	6.59	NA	5.93	5.62	5.47	5.40
Dissolved oxygen (mg/L):	7.67	NA	6.91	4.25	7.78	0.31
Temperature(°C):	23.07	NA	23.63	21.86	22.16	20.81
Turbidity NTU	25	NA	2.3	62.1	193	3.2
Salinity %	NM	NA	NM	NM	NM	NM
ORP (mV)	-51	NA	-20	36	-51	89
Specific conductivity mS/cm	0.821	NA	1.44	0.968	0.000	1.46
Before Sampling Data:						
Depth to Water Before Sampling (ft):	11.45	NA	11.00	27.50	16.71	18.84
Sampling Start Time:	9:00	NA	9:40	12:50	12:00	10:05
After Sampling Data:						
Sampling End Time:	9:10	NA	9:45	12:55	12:05	10:10
pH:	6.83	NA	5.94	5.63	5.65	5.73
Dissolved oxygen (mg/L):	1.39	NA	1.09	0.94	5.75	0.53
Temperature(°C):	23.66	NA	23.67	21.34	21.22	22.15
Turbidity NTU	14.0	NA	12.9	303	61.2	7.5
Salinity %	NM	NA	NM	NM	NM	NM
ORP (mV)	-60	NA	-9	46	-1	36
Specific conductivity mS/cm	0.566	NA	1.46	0.934	1.29	1.09
Sample Method:	bailer	NA	bailer	bailer	bailer	bailer
Field Observations						
Recharge	Good	NA	Good	Good	Excellent	Good
Sheen	No	NA	No	No	No	No
Odor	Yes	NA	Yes	Yes	No	Strong
Turbidity	Low	NA	Clear	Average	Clear	Low

Notes:

Pump = The purge device used was a Whale pump with dedicated polyethylene tubing.

Bailer = The sampling device used was a disposable, dedicated, teflon bailer.

mu - meter units, mS - milli Siemens,

mg/l - milligrams per liter, gpm - gallons per minute, °C - degrees Celcius, °F - degrees Fahrenheit

Table 4
Geochemical Parameters

Site Name:	Pilot #290					
Address:	Heather Lane, Perryville, MD					
Sovereign Project No.:	PL203.500					
Date/Time:	October 14, 2014					
Weather:	Mostly Cloudy, 60°					
Sample Date:	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14	10/14/14
Well Permit #:						
Well#:	**MW-7**	**MW-8**	**MW-9**	**MW-10R**	**TF-1**	**TF-2**
Well Diameter (inches)	4	4	4	4	4	4
Pre-Purge Data:						
PID/FID Reading (mu):	NM	NM	NM	NM	NM	NM
Product Thickness (ft):	0.00	0.00	0.00	0.00	0.00	0.00
Total Depth of Well (ft):	24.24	24.73	24.47	31.42	14.35	15.16
Depth to Water (ft):	12.11	12.66	13.52	27.58	6.11	6.19
Volume of water in well (gallons):	7.88	7.84	7.11	--	5.34	5.83
pH:	6.04	6.52	6.56	--	7.19	7.13
Dissolved oxygen (mg/L):	1.10	7.63	0.73	--	7.27	7.06
Temperature (°C):	23.51	21.91	23.67	--	23.68	23.32
Turbidity NTU	55.0	37	577	--	2.3	2.0
Salinity %	NM	NM	NM	--	NM	NM
ORP (mV)	-44	-90	-116	--	-188	-230
Specific conductivity mS/cm	1.53	0.717	1.29	--	0.558	0.620
Post-Purge Data:						
Purge Start Time:	10:14	13:10	10:47	--	14:25	13:45
Purge Stop Time:	10:30	13:26	11:09	--	14:42	14:03
Purge Method:	submersible	submersible	submersible	--	submersible	submersible
Purge Rate (gpm):	1.5	1.5	1.0	--	1.0	1.0
Total Volume Purged (gallons):	24	24	22.0	--	17	18
Depth to Water After Purge (ft):	18.07	13.15	17.83	--	6.25	9.42
pH:	6.08	6.65	6.53	--	7.07	7.16
Dissolved oxygen (mg/L):	0.38	2.88	0.50	--	7.27	7.19
Temperature(°C):	23.69	23.21	23.63	--	24.15	23.58
Turbidity NTU	35.3	23.2	28.7	--	10.4	3
Salinity %	NM	NM	NM	--	NM	NM
ORP (mV)	-53	-102	NM	--	-182	-209
Specific conductivity mS/cm	1.60	0.931	1.28	--	0.578	0.567
Before Sampling Data:						
Depth to Water Before Sampling (ft):	14.00	13.15	15.02	27.58	6.25	6.25
Sampling Start Time:	10:45	13:45	11:45	11:33	15:00	14:20
After Sampling Data:						
Sampling End Time:	10:55	13:55	11:50	11:38	15:05	14:25
pH:	6.18	6.65	6.23	6.46	6.99	7.01
Dissolved oxygen (mg/L):	1.07	7.34	7.45	7.79	1.15	3.47
Temperature(°C):	24.00	23.25	22.66	21.53	24.50	24.1
Turbidity NTU	62.4	16.4	43.7	576	31.4	28
Salinity %	NM	NM	NM	NM	NM	NM
ORP (mV)	-53	-98	-68	-117	-146	-176
Specific conductivity mS/cm	1.69	1.09	1.34	2.17	0.573	0.540
Sample Method:	bailer	bailer	bailer	bailer	bailer	bailer
Field Observations						
Recharge	Slow	Good	Good	Poor	Good	Good
Sheen	No	Yes	Fair	Yes	Yes	Yes
Odor	Yes	Yes	Yes	Yes	Yes	Yes
Turbidity	Low	Clear	Clear	Cloudy	Clear	Clear

Notes:

Pump = The purge device used was a Whale pump with dedicated polyethylene tubing.

Bailer = The sampling device used was a disposable, dedicated, teflon bailer.

mu - meter units, mS - milli Siemens,

mg/l - milligrams per liter, gpm - gallons per minute, °C - degrees Celcius, °F - degrees Fahrenheit

APPENDIX A

Laboratory Analytical Report and Chain-of-Custody Documentation

New Jersey
ACCUTEST LABORATORIES

10/28/14

Technical Report for

Pilot Travel Centers LLC

SCNJCH: #290, Heather Lane, Perryville, MD

PL203.500

Accutest Job Number: JB79217

Sampling Date: 10/14/14

Report to:

Sovereign Consulting
100 Dobbs Lane Suite 212
Cherry Hill, NJ 08034
jwilliams@sovcon.com

ATTN: Jennifer Williams

Total number of pages in report: **372**

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.

Nancy Cole
Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Table of Contents

-1-

Section 1: Sample Summary **4**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Summary of Hits **7**
Section 4: Sample Results **11**
4.1: JB79217-1: MW-1 12
4.2: JB79217-2: MW-3 17
4.3: JB79217-3: MW-4R 22
4.4: JB79217-4: MW-5 27
4.5: JB79217-5: MW-6 32
4.6: JB79217-6: MW-7 37
4.7: JB79217-7: MW-8 42
4.8: JB79217-8: MW-9 47
4.9: JB79217-9: MW-10R 52
4.10: JB79217-10: TF-1 57
4.11: JB79217-11: TF-2 62
Section 5: Misc. Forms **67**
5.1: Chain of Custody 68
5.2: Sample Tracking Chronicle 71
5.3: Internal Chain of Custody 73
Section 6: GC/MS Volatiles - QC Data Summaries **82**
6.1: Method Blank Summary 83
6.2: Blank Spike Summary 98
6.3: Matrix Spike/Matrix Spike Duplicate Summary 110
6.4: Instrument Performance Checks (BFB) 122
6.5: Internal Standard Area Summaries 129
6.6: Surrogate Recovery Summaries 134
6.7: Initial and Continuing Calibration Summaries 135
Section 7: GC/MS Volatiles - Raw Data **166**
7.1: Samples 167
7.2: Method Blanks 250
Section 8: GC Volatiles - QC Data Summaries **260**
8.1: Method Blank Summary 261
8.2: Blank Spike Summary 263
8.3: Matrix Spike/Matrix Spike Duplicate Summary 264
8.4: Surrogate Recovery Summaries 265
8.5: GC Surrogate Retention Time Summaries 266
8.6: Initial and Continuing Calibration Summaries 269
Section 9: GC Volatiles - Raw Data **275**
9.1: Samples 276
9.2: Method Blanks 300
Section 10: GC Semi-volatiles - QC Data Summaries **304**
10.1: Method Blank Summary 305

Table of Contents

10.2: Blank Spike/Blank Spike Duplicate Summary 306
10.3: Surrogate Recovery Summaries 307
10.4: GC Surrogate Retention Time Summaries 308
10.5: Initial and Continuing Calibration Summaries 313
Section 11: GC Semi-volatiles - Raw Data 322
11.1: Samples 323
11.2: Method Blanks 371

Accutest Laboratories

Sample Summary

Pilot Travel Centers LLC

Job No: JB79217

SCNJCH: #290, Heather Lane, Perryville, MD
Project No: PL203.500

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB79217-1	10/14/14	09:00	DM	10/15/14	AQ	Ground Water	MW-1
JB79217-2	10/14/14	09:40	DM	10/15/14	AQ	Ground Water	MW-3
JB79217-3	10/14/14	12:50	DM	10/15/14	AQ	Ground Water	MW-4R
JB79217-4	10/14/14	12:00	DM	10/15/14	AQ	Ground Water	MW-5
JB79217-5	10/14/14	10:05	DM	10/15/14	AQ	Ground Water	MW-6
JB79217-6	10/14/14	10:45	DM	10/15/14	AQ	Ground Water	MW-7
JB79217-7	10/14/14	13:45	DM	10/15/14	AQ	Ground Water	MW-8
JB79217-8	10/14/14	11:45	DM	10/15/14	AQ	Ground Water	MW-9
JB79217-9	10/14/14	11:33	DM	10/15/14	AQ	Ground Water	MW-10R
JB79217-10	10/14/14	15:00	DM	10/15/14	AQ	Ground Water	TF-1
JB79217-11	10/14/14	14:20	DM	10/15/14	AQ	Ground Water	TF-2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Pilot Travel Centers LLC	**Job No**	JB79217
Site:	SCNJCH: #290, Heather Lane, Perryville, MD	**Report Date**	10/28/2014 12:58:50 P

On 10/15/2014, 11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at temperatures of 2.8 C/ 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB79217 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V2E4803

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB79143-1MS, JB79143-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** V2E4806

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB79025-22MS, JB79025-22MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** V2E4807

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB79025-9MS, JB79025-9MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** V2E4808

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB79217-7MS, JB79217-7MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** GUV4733

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB79129-3MS, JB79129-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8015C

Matrix: AQ	**Batch ID:** OP78850

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JB79217-10 for 5a-Androstane: Outside control limits due to matrix interference.
- JB79217-10 for 5a-Androstane: Outside control limits due to dilution.
- JB79217-10 for Tetracosane-d50: Outside control limits due to dilution.
- JB79217-10 for o-Terphenyl: Outside control limits due to dilution.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB79217
Account: Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Collected: 10/14/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB79217-1	**MW-1**					
Benzene		0.65	0.50	0.21	ug/l	SW846 8260B
sec-Butylbenzene		0.57 J	2.0	0.47	ug/l	SW846 8260B
Ethylbenzene		1.6	1.0	0.40	ug/l	SW846 8260B
Isopropylbenzene		1.8	1.0	0.26	ug/l	SW846 8260B
p-Isopropyltoluene		0.49 J	2.0	0.47	ug/l	SW846 8260B
TPH-DRO (C10-C28)		0.575	0.083	0.080	mg/l	SW846 8015C
JB79217-2	**MW-3**					
Benzene		3.5	0.50	0.21	ug/l	SW846 8260B
n-Butylbenzene		1.1 J	2.0	0.18	ug/l	SW846 8260B
sec-Butylbenzene		3.7	2.0	0.47	ug/l	SW846 8260B
tert-Butylbenzene		0.77 J	2.0	0.30	ug/l	SW846 8260B
Isopropylbenzene		0.81 J	1.0	0.26	ug/l	SW846 8260B
n-Propylbenzene		0.41 J	2.0	0.31	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.23 J	2.0	0.19	ug/l	SW846 8260B
TPH-DRO (C10-C28)		0.852	0.083	0.080	mg/l	SW846 8015C
JB79217-3	**MW-4R**					
Benzene		2.2	0.50	0.21	ug/l	SW846 8260B
n-Butylbenzene		0.33 J	2.0	0.18	ug/l	SW846 8260B
sec-Butylbenzene		2.1	2.0	0.47	ug/l	SW846 8260B
tert-Butylbenzene		0.37 J	2.0	0.30	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2.5	1.0	0.26	ug/l	SW846 8260B
Naphthalene		6.8	5.0	0.34	ug/l	SW846 8260B
TPH-DRO (C10-C28)		0.876	0.083	0.080	mg/l	SW846 8015C
JB79217-4	**MW-5**					
Benzene		0.22 J	0.50	0.21	ug/l	SW846 8260B
sec-Butylbenzene		2.4	2.0	0.47	ug/l	SW846 8260B
Isopropylbenzene		0.35 J	1.0	0.26	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.2	1.0	0.26	ug/l	SW846 8260B
TPH-DRO (C10-C28)		1.06	0.083	0.080	mg/l	SW846 8015C
JB79217-5	**MW-6**					
Benzene		0.22 J	0.50	0.21	ug/l	SW846 8260B
TPH-DRO (C10-C28)		0.693	0.083	0.080	mg/l	SW846 8015C

Summary of Hits

Job Number: JB79217
Account: Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Collected: 10/14/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB79217-6	**MW-7**					
Benzene		3.5	0.50	0.21	ug/l	SW846 8260B
n-Butylbenzene		2.0	2.0	0.18	ug/l	SW846 8260B
sec-Butylbenzene		4.5	2.0	0.47	ug/l	SW846 8260B
tert-Butylbenzene		0.94 J	2.0	0.30	ug/l	SW846 8260B
Ethylbenzene		3.4	1.0	0.40	ug/l	SW846 8260B
Isopropylbenzene		6.1	1.0	0.26	ug/l	SW846 8260B
Naphthalene		10.2	5.0	0.34	ug/l	SW846 8260B
n-Propylbenzene		6.4	2.0	0.31	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		4.2	2.0	0.19	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		0.20 J	2.0	0.17	ug/l	SW846 8260B
m,p-Xylene		0.60 J	1.0	0.45	ug/l	SW846 8260B
o-Xylene		0.36 J	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		0.97 J	1.0	0.20	ug/l	SW846 8260B
TPH-DRO (C10-C28)		1.89	0.083	0.080	mg/l	SW846 8015C
JB79217-7	**MW-8**					
Benzene		0.38 J	0.50	0.21	ug/l	SW846 8260B
Isopropylbenzene		0.27 J	1.0	0.26	ug/l	SW846 8260B
Naphthalene		1.2 J	5.0	0.34	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		2.9	2.0	0.19	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		0.44 J	2.0	0.17	ug/l	SW846 8260B
m,p-Xylene		1.5	1.0	0.45	ug/l	SW846 8260B
o-Xylene		5.7	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		7.3	1.0	0.20	ug/l	SW846 8260B
TPH-DRO (C10-C28)		13.0	0.083	0.080	mg/l	SW846 8015C
JB79217-8	**MW-9**					
Benzene		3.0	0.50	0.21	ug/l	SW846 8260B
n-Butylbenzene		1.3 J	2.0	0.18	ug/l	SW846 8260B
sec-Butylbenzene		2.3	2.0	0.47	ug/l	SW846 8260B
tert-Butylbenzene		0.50 J	2.0	0.30	ug/l	SW846 8260B
Isopropylbenzene		2.8	1.0	0.26	ug/l	SW846 8260B
p-Isopropyltoluene		0.74 J	2.0	0.47	ug/l	SW846 8260B
Naphthalene		6.0	5.0	0.34	ug/l	SW846 8260B
n-Propylbenzene		3.7	2.0	0.31	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		6.8	2.0	0.19	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		0.59 J	2.0	0.17	ug/l	SW846 8260B
o-Xylene		0.23 J	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		0.23 J	1.0	0.20	ug/l	SW846 8260B
TPH-DRO (C10-C28)		11.8	0.083	0.080	mg/l	SW846 8015C

Summary of Hits

Job Number: JB79217
Account: Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Collected: 10/14/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB79217-9	**MW-10R**					
Acetone		3.2 J	10	2.6	ug/l	SW846 8260B
Benzene		4.7	0.50	0.21	ug/l	SW846 8260B
sec-Butylbenzene		1.4 J	2.0	0.47	ug/l	SW846 8260B
tert-Butylbenzene		0.74 J	2.0	0.30	ug/l	SW846 8260B
Isopropylbenzene		0.49 J	1.0	0.26	ug/l	SW846 8260B
Naphthalene		7.9	5.0	0.34	ug/l	SW846 8260B
n-Propylbenzene		0.39 J	2.0	0.31	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.50 J	2.0	0.19	ug/l	SW846 8260B
TPH-DRO (C10-C28)		23.7	0.083	0.080	mg/l	SW846 8015C
JB79217-10	**TF-1**					
Benzene		1.2	0.50	0.21	ug/l	SW846 8260B
n-Butylbenzene		9.9	2.0	0.18	ug/l	SW846 8260B
sec-Butylbenzene		13.1	2.0	0.47	ug/l	SW846 8260B
tert-Butylbenzene		0.75 J	2.0	0.30	ug/l	SW846 8260B
Ethylbenzene		29.7	1.0	0.40	ug/l	SW846 8260B
Isopropylbenzene		20.6	1.0	0.26	ug/l	SW846 8260B
p-Isopropyltoluene		13.7	2.0	0.47	ug/l	SW846 8260B
Naphthalene		55.5	5.0	0.34	ug/l	SW846 8260B
n-Propylbenzene		26.6	2.0	0.31	ug/l	SW846 8260B
Toluene		14.9	1.0	0.22	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		443	20	1.9	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		121	2.0	0.17	ug/l	SW846 8260B
m,p-Xylene		207	1.0	0.45	ug/l	SW846 8260B
o-Xylene		149	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		356	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		5.70	0.20	0.038	mg/l	SW846 8015C
TPH-DRO (C10-C28)		1370	1.7	1.6	mg/l	SW846 8015C
JB79217-11	**TF-2**					
Benzene		0.30 J	0.50	0.21	ug/l	SW846 8260B
n-Butylbenzene		1.8 J	2.0	0.18	ug/l	SW846 8260B
sec-Butylbenzene		2.9	2.0	0.47	ug/l	SW846 8260B
tert-Butylbenzene		0.33 J	2.0	0.30	ug/l	SW846 8260B
Ethylbenzene		7.1	1.0	0.40	ug/l	SW846 8260B
Isopropylbenzene		3.9	1.0	0.26	ug/l	SW846 8260B
p-Isopropyltoluene		2.8	2.0	0.47	ug/l	SW846 8260B
Naphthalene		13.9	5.0	0.34	ug/l	SW846 8260B
n-Propylbenzene		4.0	2.0	0.31	ug/l	SW846 8260B
Toluene		1.8	1.0	0.22	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		66.4	2.0	0.19	ug/l	SW846 8260B

Summary of Hits

Job Number: JB79217
Account: Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Collected: 10/14/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1,3,5-Trimethylbenzene	15.5	2.0	0.17	ug/l	SW846 8260B
m,p-Xylene	7.1	1.0	0.45	ug/l	SW846 8260B
o-Xylene	53.7	1.0	0.20	ug/l	SW846 8260B
Xylene (total)	60.9	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)	0.642	0.20	0.038	mg/l	SW846 8015C
TPH-DRO (C10-C28)	11.7	0.083	0.080	mg/l	SW846 8015C

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JB79217-1	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107451.D	1	10/21/14	DR	n/a	n/a	V2E4807
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	0.65	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	0.57	2.0	0.47	ug/l	J
98-06-6	tert-Butylbenzene	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	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		
Lab Sample ID:	JB79217-1	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	1.6	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	1.8	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	0.49	2.0	0.47	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-120%

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		
Lab Sample ID:	JB79217-1	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		72-123%
2037-26-5	Toluene-D8	116%		78-119%
460-00-4	4-Bromofluorobenzene	112%		74-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JB79217-1	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19200.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	74%		62-120%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JB79217-1	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65212.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.575	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		36-144%
16416-32-3	Tetracosane-d50	71%		32-138%
438-22-2	5a-Androstane	66%		31-136%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JB79217-2	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107452.D	1	10/21/14	DR	n/a	n/a	V2E4807
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	3.5	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	1.1	2.0	0.18	ug/l	J
135-98-8	sec-Butylbenzene	3.7	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	0.77	2.0	0.30	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	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-3		
Lab Sample ID:	JB79217-2	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	0.81	1.0	0.26	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	0.41	2.0	0.31	ug/l	J
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.23	2.0	0.19	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		79-120%

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-3		
Lab Sample ID:	JB79217-2	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		72-123%
2037-26-5	Toluene-D8	115%		78-119%
460-00-4	4-Bromofluorobenzene	111%		74-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JB79217-2	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19193.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	73%		62-120%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JB79217-2	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65213.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.852	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		36-144%
16416-32-3	Tetracosane-d50	66%		32-138%
438-22-2	5a-Androstane	61%		31-136%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	JB79217-3	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107428.D	1	10/21/14	DR	n/a	n/a	V2E4806
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	2.2	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	0.33	2.0	0.18	ug/l	J
135-98-8	sec-Butylbenzene	2.1	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	0.37	2.0	0.30	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	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-4R		
Lab Sample ID:	JB79217-3	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.5	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	6.8	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		79-120%

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-4R		
Lab Sample ID:	JB79217-3	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%		72-123%
2037-26-5	Toluene-D8	116%		78-119%
460-00-4	4-Bromofluorobenzene	112%		74-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	JB79217-3	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19194.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	73%		62-120%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	JB79217-3	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65214.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.876	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		36-144%
16416-32-3	Tetracosane-d50	72%		32-138%
438-22-2	5a-Androstane	66%		31-136%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JB79217-4	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107429.D	1	10/21/14	DR	n/a	n/a	V2E4806
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	0.22	0.50	0.21	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	2.4	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	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-5		
Lab Sample ID:	JB79217-4	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	0.35	1.0	0.26	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.2	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		79-120%

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		
Lab Sample ID:	JB79217-4	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%		72-123%
2037-26-5	Toluene-D8	114%		78-119%
460-00-4	4-Bromofluorobenzene	112%		74-119%

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

Client Sample ID:	MW-5		
Lab Sample ID:	JB79217-4	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19195.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	73%		62-120%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JB79217-4	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65215.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1.06	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		36-144%
16416-32-3	Tetracosane-d50	76%		32-138%
438-22-2	5a-Androstane	71%		31-136%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JB79217-5	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107430.D	1	10/21/14	DR	n/a	n/a	V2E4806
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	0.22	0.50	0.21	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	

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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-6		
Lab Sample ID:	JB79217-5	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		79-120%

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-6		
Lab Sample ID:	JB79217-5	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	117%		72-123%
2037-26-5	Toluene-D8	116%		78-119%
460-00-4	4-Bromofluorobenzene	111%		74-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JB79217-5	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19196.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	73%		62-120%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JB79217-5	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65219.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.693	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		36-144%
16416-32-3	Tetracosane-d50	76%		32-138%
438-22-2	5a-Androstane	70%		31-136%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JB79217-6	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107313.D	1	10/17/14	DR	n/a	n/a	V2E4803
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	3.5	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	2.0	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	4.5	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	0.94	2.0	0.30	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	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-7		
Lab Sample ID:	JB79217-6	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	3.4	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	6.1	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	10.2	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	6.4	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	4.2	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20	2.0	0.17	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	0.60	1.0	0.45	ug/l	J
95-47-6	o-Xylene	0.36	1.0	0.20	ug/l	J
1330-20-7	Xylene (total)	0.97	1.0	0.20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-120%

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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-7		
Lab Sample ID:	JB79217-6	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	114%		78-119%
460-00-4	4-Bromofluorobenzene	110%		74-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JB79217-6	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19197.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	73%		62-120%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JB79217-6	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65220.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1.89	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		36-144%
16416-32-3	Tetracosane-d50	68%		32-138%
438-22-2	5a-Androstane	63%		31-136%

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JB79217-7	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107478.D	1	10/22/14	DR	n/a	n/a	V2E4808
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	0.38	0.50	0.21	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	

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Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JB79217-7	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	0.27	1.0	0.26	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	1.2	5.0	0.34	ug/l	J
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.9	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.44	2.0	0.17	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	1.5	1.0	0.45	ug/l	
95-47-6	o-Xylene	5.7	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	7.3	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JB79217-7	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		72-123%
2037-26-5	Toluene-D8	117%		78-119%
460-00-4	4-Bromofluorobenzene	111%		74-119%

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

Client Sample ID:	MW-8		
Lab Sample ID:	JB79217-7	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19198.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	73%		62-120%

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Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JB79217-7	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65221.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	13.0	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	59%		36-144%
16416-32-3	Tetracosane-d50	62%		32-138%
438-22-2	5a-Androstane	58%		31-136%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	JB79217-8	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107480.D	1	10/22/14	DR	n/a	n/a	V2E4808
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	3.0	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	1.3	2.0	0.18	ug/l	J
135-98-8	sec-Butylbenzene	2.3	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	0.50	2.0	0.30	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	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-9		
Lab Sample ID:	JB79217-8	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	2.8	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	0.74	2.0	0.47	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	6.0	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	3.7	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	6.8	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.59	2.0	0.17	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	0.23	1.0	0.20	ug/l	J
1330-20-7	Xylene (total)	0.23	1.0	0.20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		79-120%

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-9		
Lab Sample ID:	JB79217-8	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%		72-123%
2037-26-5	Toluene-D8	114%		78-119%
460-00-4	4-Bromofluorobenzene	110%		74-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	JB79217-8	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19186.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	73%		62-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	JB79217-8	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65222.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	11.8	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	38%		36-144%
16416-32-3	Tetracosane-d50	34%		32-138%
438-22-2	5a-Androstane	33%		31-136%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JB79217-9	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107453.D	1	10/21/14	DR	n/a	n/a	V2E4807
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.2	10	2.6	ug/l	J
71-43-2	Benzene	4.7	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	1.4	2.0	0.47	ug/l	J
98-06-6	tert-Butylbenzene	0.74	2.0	0.30	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JB79217-9	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	0.49	1.0	0.26	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	7.9	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	0.39	2.0	0.31	ug/l	J
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50	2.0	0.19	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-120%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JB79217-9	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%		72-123%
2037-26-5	Toluene-D8	115%		78-119%
460-00-4	4-Bromofluorobenzene	112%		74-119%

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Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JB79217-9	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19199.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	72%		62-120%

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Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10R		
Lab Sample ID:	JB79217-9	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65223.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	23.7	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-144%
16416-32-3	Tetracosane-d50	76%		32-138%
438-22-2	5a-Androstane	73%		31-136%

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TF-1		
Lab Sample ID:	JB79217-10	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107454.D	1	10/21/14	DR	n/a	n/a	V2E4807
Run #2	2E107485.D	10	10/22/14	DR	n/a	n/a	V2E4808

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

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	1.2	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	9.9	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	13.1	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	0.75	2.0	0.30	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	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:	TF-1		
Lab Sample ID:	JB79217-10	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	29.7	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	20.6	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	13.7	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	55.5	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	26.6	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	14.9	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	443 [a]	20	1.9	ug/l	
108-67-8	1,3,5-Trimethylbenzene	121	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	207	1.0	0.45	ug/l	
95-47-6	o-Xylene	149	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	356	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%	115%	79-120%

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:	TF-1		
Lab Sample ID:	JB79217-10	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	119%	114%	72-123%
2037-26-5	Toluene-D8	117%	115%	78-119%
460-00-4	4-Bromofluorobenzene	112%	112%	74-119%

(a) Result is from Run# 2

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TF-1		
Lab Sample ID:	JB79217-10	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19188.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	5.70	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	75%		62-120%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TF-1		
Lab Sample ID:	JB79217-10	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65224.D	1	10/17/14	JM	10/16/14	OP78850	G2Y2509
Run #2	2Y65257.D	20	10/17/14	JM	10/16/14	OP78850	G2Y2510

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2	300 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1370 [a]	1.7	1.6	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	42%	579% [b]	36-144%
16416-32-3	Tetracosane-d50	57%	220% [b]	32-138%
438-22-2	5a-Androstane	332% [c]	300% [b]	31-136%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TF-2		
Lab Sample ID:	JB79217-11	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E107479.D	1	10/22/14	DR	n/a	n/a	V2E4808
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	0.30	0.50	0.21	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	1.8	2.0	0.18	ug/l	J
135-98-8	sec-Butylbenzene	2.9	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	0.33	2.0	0.30	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	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:	TF-2		
Lab Sample ID:	JB79217-11	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	7.1	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	3.9	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	2.8	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	13.9	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	4.0	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	1.8	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	66.4	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	15.5	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	7.1	1.0	0.45	ug/l	
95-47-6	o-Xylene	53.7	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	60.9	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-120%

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:	TF-2		
Lab Sample ID:	JB79217-11	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		72-123%
2037-26-5	Toluene-D8	117%		78-119%
460-00-4	4-Bromofluorobenzene	111%		74-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TF-2		
Lab Sample ID:	JB79217-11	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV19187.D	1	10/16/14	WO	n/a	n/a	GUV4733
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.642	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	74%		62-120%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TF-2		
Lab Sample ID:	JB79217-11	**Date Sampled:**	10/14/14
Matrix:	AQ - Ground Water	**Date Received:**	10/15/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	SCNJCH: #290, Heather Lane, Perryville, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y65225.D	1	10/17/14	JM	10/16/14	OP78850	G2Y2509
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	11.7	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		36-144%
16416-32-3	Tetracosane-d50	83%		32-138%
438-22-2	5a-Androstane	77%		31-136%

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

New Jersey

ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

ACCUTEST

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3479

Accutest Job #: JB79217

Client / Reporting Information

Consultants Name: Sovereign Consulting Inc.
Address: 100 Dobbs Lane, Suite 212
City: Cherry Hill, NJ Zip: 08034
Project Contact: Jennifer Williams
Phone #: 856-325-2099
email : jwilliams@sovcon.com
Collected by: D. Miller/D. Watson

Project Information

Project Name: Pilot Perryville, Center SS#290
Street:
City: Perryville State: MD
Project Manager: Jennifer Williams
Project PL203.500
Location ID #:
Client Purchase Order #:

Analytical Information

DRO = 300mL RUSH 10/15/14

Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	B5015DRO	V801GRO	V8260MDVO	Volatile Organics (8260) Plus TBA											
MW - 1	10/14/2014	0900	DM/DW	GW	7	X					X	X	X	X	-1										
MW - 3	10/14/2014	0940	DM/DW	GW	7	X					X	X	X		-2										
MW - 4R	10/14/2014	1250	DM/DW	GW	7	X					X	X	X		-3										
MW - 5	10/14/2014	1200	DM/DW	GW	7	X					X	X	X		-4										
MW - 6	10/14/2014	1005	DM/DW	GW	7	X					X	X	X		-5										
MW - 7	10/14/2014	1045	DM/DW	GW	7	X					X	X	X	X	-6										

Turnaround Information

- [x] Std. 15 Day Turnaround
- [ ] 7 Day EMERGENCY
- [ ] 4 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Approved By:

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [x] NJ Reduced
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format
- [x] EDD Format

NJ Reduce = Results + QC Summary + Partial Raw data

Accutest Log-in Information

E23
V1134

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Derek L. Miller	10/15/14 1210	1	2	10-15-14	
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal # ~~262 and 264~~ 678 8680	Preserve where applicable	On Ice: Y	Temp. 2.8 3.0
5		5				

1Am

JK

JB79217: Chain of Customer
Page 1 of 3

CHAIN OF CUSTODY

ACCUTEST

2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3479

Accutest Job #: JB79217

Client / Reporting Information

Consultants Name: Sovereign Consulting Inc.
Address: 100 Dobbs Lane, Suite 212
City: Cherry Hill, NJ Zip: 08034
Project Contact: Jennifer Williams
Phone #: 856-325-2099
email : jwilliams@sovcon.com
Collected by: D. Miller/D. Watson

Project Information

Project Name: Pilot Perryville, Center SS#290
Street:
City: Perryville State: MD
Project Manager: Jennifer Williams
Project PL203.500
Location ID #
Client Purchase Order #

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	B5015DRO	V801GRO	V8260MDVO	Volatile Organics (8260) Plus TBA											
MW - 8	10/14/2014	1345	DM/DW	GW	7	X					X	X	X	X		-7									
MW - 9	10/14/2014	1145	DM/DW	GW	7	X					X	X	X			-8									
MW - 10R	10/14/2014	1133	DM/DW	GW	7	X					X	X	X			-9									
TF - 1	10/14/2014	1500	DM/DW	GW	7	X					X	X	X			-10									
TF - 2	10/14/2014	1420	DM/DW	GW	7	X					X	X	X	X		-11									

Turnaround Information

- [x] Std. 15 Day Turnaround — Approved By:
- [ ] 7 Day *EMERGENCY*
- [ ] 4 Day *EMERGENCY*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Full Deliverables
- [x] NJ Reduced
- [ ] FULL CLP
- [ ] State Forms
- [ ] Disk Deliverable Format
- [x] EDD Format

NJ Reduce = Results + QC Summary + Partial Raw data

Accutest Log-in Information

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Derrick L. Miller	10/15/14 1105	1	2	10-15-14 1310	
3		3	4		4
5		5	Seal # ~~362 and 364~~ 678 & 680	Preserve where applicable	On Ice ☐ Temp. 2.8 cp 3.0 cp

☐ ☐

IA

Page 1

JB79217: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB79217 **Client:** _____ **Project:** _____

Date / Time Received: 10/15/2014 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (2.8/2.8); #2: (3/3); 0

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

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	2	

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

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

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

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

Comments

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

JB79217: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Pilot Travel Centers LLC

Job No: JB79217

SCNJCH: #290, Heather Lane, Perryville, MD
Project No: PL203.500

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB79217-1 MW-1	Collected: 14-OCT-14 09:00 By: DM		Received: 15-OCT-14 By: TH			
JB79217-1	SW846 8015C	16-OCT-14 17:28	JM	16-OCT-14	RM	B8015DRO
JB79217-1	SW846 8015C	16-OCT-14 19:21	WO			V8015GRO
JB79217-1	SW846 8260B	21-OCT-14 18:39	DR			V8260MDVO
JB79217-2 MW-3	Collected: 14-OCT-14 09:40 By: DM		Received: 15-OCT-14 By: TH			
JB79217-2	SW846 8015C	16-OCT-14 15:51	WO			V8015GRO
JB79217-2	SW846 8015C	16-OCT-14 18:04	JM	16-OCT-14	RM	B8015DRO
JB79217-2	SW846 8260B	21-OCT-14 19:08	DR			V8260MDVO
JB79217-3 MW-4R	Collected: 14-OCT-14 12:50 By: DM		Received: 15-OCT-14 By: TH			
JB79217-3	SW846 8015C	16-OCT-14 16:20	WO			V8015GRO
JB79217-3	SW846 8015C	16-OCT-14 18:39	JM	16-OCT-14	RM	B8015DRO
JB79217-3	SW846 8260B	21-OCT-14 05:12	DR			V8260MDVO
JB79217-4 MW-5	Collected: 14-OCT-14 12:00 By: DM		Received: 15-OCT-14 By: TH			
JB79217-4	SW846 8015C	16-OCT-14 16:49	WO			V8015GRO
JB79217-4	SW846 8015C	16-OCT-14 19:13	JM	16-OCT-14	RM	B8015DRO
JB79217-4	SW846 8260B	21-OCT-14 05:41	DR			V8260MDVO
JB79217-5 MW-6	Collected: 14-OCT-14 10:05 By: DM		Received: 15-OCT-14 By: TH			
JB79217-5	SW846 8015C	16-OCT-14 17:18	WO			V8015GRO
JB79217-5	SW846 8015C	16-OCT-14 21:33	JM	16-OCT-14	RM	B8015DRO
JB79217-5	SW846 8260B	21-OCT-14 06:10	DR			V8260MDVO
JB79217-6 MW-7	Collected: 14-OCT-14 10:45 By: DM		Received: 15-OCT-14 By: TH			
JB79217-6	SW846 8015C	16-OCT-14 17:54	WO			V8015GRO
JB79217-6	SW846 8015C	16-OCT-14 22:09	JM	16-OCT-14	RM	B8015DRO

Internal Sample Tracking Chronicle

Pilot Travel Centers LLC

Job No: JB79217

SCNJCH: #290, Heather Lane, Perryville, MD
Project No: PL203.500

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB79217-6	SW846 8260B	17-OCT-14 17:32	DR			V8260MDVO
JB79217-7 MW-8	Collected: 14-OCT-14 13:45 By: DM		Received: 15-OCT-14 By: TH			
JB79217-7	SW846 8015C	16-OCT-14 18:23	WO			V8015GRO
JB79217-7	SW846 8015C	16-OCT-14 22:44	JM	16-OCT-14	RM	B8015DRO
JB79217-7	SW846 8260B	22-OCT-14 13:17	DR			V8260MDVO
JB79217-8 MW-9	Collected: 14-OCT-14 11:45 By: DM		Received: 15-OCT-14 By: TH			
JB79217-8	SW846 8015C	16-OCT-14 12:16	WO			V8015GRO
JB79217-8	SW846 8015C	16-OCT-14 23:19	JM	16-OCT-14	RM	B8015DRO
JB79217-8	SW846 8260B	22-OCT-14 14:15	DR			V8260MDVO
JB79217-9 MW-10R	Collected: 14-OCT-14 11:33 By: DM		Received: 15-OCT-14 By: TH			
JB79217-9	SW846 8015C	16-OCT-14 18:52	WO			V8015GRO
JB79217-9	SW846 8015C	16-OCT-14 23:54	JM	16-OCT-14	RM	B8015DRO
JB79217-9	SW846 8260B	21-OCT-14 19:37	DR			V8260MDVO
JB79217-10 TF-1	Collected: 14-OCT-14 15:00 By: DM		Received: 15-OCT-14 By: TH			
JB79217-10	SW846 8015C	16-OCT-14 13:22	WO			V8015GRO
JB79217-10	SW846 8015C	17-OCT-14 00:29	JM	16-OCT-14		
JB79217-10	SW846 8015C	17-OCT-14 22:22	JM	16-OCT-14	RM	B8015DRO
JB79217-10	SW846 8260B	21-OCT-14 20:06	DR			V8260MDVO
JB79217-10	SW846 8260B	22-OCT-14 16:45	DR			V8260MDVO
JB79217-11 TF-2	Collected: 14-OCT-14 14:20 By: DM		Received: 15-OCT-14 By: TH			
JB79217-11	SW846 8015C	16-OCT-14 12:53	WO			V8015GRO
JB79217-11	SW846 8015C	17-OCT-14 01:03	JM	16-OCT-14	RM	B8015DRO
JB79217-11	SW846 8260B	22-OCT-14 13:46	DR			V8260MDVO

Accutest Internal Chain of Custody

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 10/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB79217-1.1	Air Storage	Thomas Hilbig	10/15/14 15:31	Retrieve from Storage
JB79217-1.1	Thomas Hilbig	GCQT	10/15/14 15:31	Load on Instrument
JB79217-1.2	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-1.2	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-1.2	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-1.2	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-1.2.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-1.2
JB79217-1.2.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-1.2
JB79217-1.2.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-1.2.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-1.2.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-1.2.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-1.2.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage
JB79217-1.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-1.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-1.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-1.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-1.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-1.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-1.4	Secured Storage	Dixita Rana	10/17/14 16:43	Retrieve from Storage
JB79217-1.4	Dixita Rana	GCMS2E	10/17/14 16:43	Load on Instrument
JB79217-1.4	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-1.4	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage
JB79217-1.4	Secured Storage	Dixita Rana	10/21/14 14:37	Retrieve from Storage
JB79217-1.4	Dixita Rana	GCMS2E	10/21/14 14:37	Load on Instrument
JB79217-1.4	GCMS2E	Dixita Rana	10/22/14 10:06	Unload from Instrument
JB79217-1.4	Dixita Rana	Secured Storage	10/22/14 10:06	Return to Storage
JB79217-2.1	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-2.1	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-2.1	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-2.1	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-2.1.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-2.1
JB79217-2.1.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-2.1
JB79217-2.1.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-2.1.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-2.1.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-2.1.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-2.1.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 10/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB79217-2.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-2.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-2.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-2.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-2.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-2.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-2.4	Secured Storage	Dixita Rana	10/17/14 16:43	Retrieve from Storage
JB79217-2.4	Dixita Rana	GCMS2E	10/17/14 16:43	Load on Instrument
JB79217-2.4	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-2.4	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage
JB79217-2.4	Secured Storage	Dixita Rana	10/21/14 14:37	Retrieve from Storage
JB79217-2.4	Dixita Rana	GCMS2E	10/21/14 14:37	Load on Instrument
JB79217-2.4	GCMS2E	Dixita Rana	10/22/14 10:06	Unload from Instrument
JB79217-2.4	Dixita Rana	Secured Storage	10/22/14 10:06	Return to Storage
JB79217-3.2	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-3.2	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-3.2	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-3.2	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-3.2.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-3.2
JB79217-3.2.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-3.2
JB79217-3.2.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-3.2.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-3.2.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-3.2.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-3.2.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage
JB79217-3.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-3.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-3.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-3.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-3.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-3.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-3.4	Secured Storage	Dixita Rana	10/17/14 16:43	Retrieve from Storage
JB79217-3.4	Dixita Rana	GCMS2E	10/17/14 16:43	Load on Instrument
JB79217-3.4	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-3.4	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage
JB79217-3.4	Secured Storage	Dixita Rana	10/20/14 15:44	Retrieve from Storage
JB79217-3.4	Dixita Rana	GCMS2E	10/20/14 15:44	Load on Instrument
JB79217-3.4	GCMS2E	Dixita Rana	10/21/14 08:50	Unload from Instrument

Accutest Internal Chain of Custody

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 10/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB79217-3.4	Dixita Rana	Secured Storage	10/21/14 08:50	Return to Storage
JB79217-4.1	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-4.1	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-4.1	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-4.1	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-4.1.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-4.1
JB79217-4.1.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-4.1
JB79217-4.1.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-4.1.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-4.1.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-4.1.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-4.1.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage
JB79217-4.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-4.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-4.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-4.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-4.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-4.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-4.5	Secured Storage	Dixita Rana	10/17/14 16:43	Retrieve from Storage
JB79217-4.5	Dixita Rana	GCMS2E	10/17/14 16:43	Load on Instrument
JB79217-4.5	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-4.5	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage
JB79217-4.5	Secured Storage	Dixita Rana	10/20/14 15:44	Retrieve from Storage
JB79217-4.5	Dixita Rana	GCMS2E	10/20/14 15:44	Load on Instrument
JB79217-4.5	GCMS2E	Dixita Rana	10/21/14 08:50	Unload from Instrument
JB79217-4.5	Dixita Rana	Secured Storage	10/21/14 08:50	Return to Storage
JB79217-5.1	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-5.1	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-5.1	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-5.1	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-5.1.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-5.1
JB79217-5.1.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-5.1
JB79217-5.1.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-5.1.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-5.1.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-5.1.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-5.1.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 10/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB79217-5.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-5.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-5.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-5.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-5.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-5.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-5.4	Secured Storage	Dixita Rana	10/17/14 16:43	Retrieve from Storage
JB79217-5.4	Dixita Rana	GCMS2E	10/17/14 16:43	Load on Instrument
JB79217-5.4	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-5.4	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage
JB79217-5.4	Secured Storage	Dixita Rana	10/20/14 15:44	Retrieve from Storage
JB79217-5.4	Dixita Rana	GCMS2E	10/20/14 15:44	Load on Instrument
JB79217-5.4	GCMS2E	Dixita Rana	10/21/14 08:50	Unload from Instrument
JB79217-5.4	Dixita Rana	Secured Storage	10/21/14 08:50	Return to Storage
JB79217-6.1	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-6.1	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-6.1	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-6.1	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-6.1.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-6.1
JB79217-6.1.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-6.1
JB79217-6.1.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-6.1.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-6.1.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-6.1.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-6.1.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage
JB79217-6.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-6.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-6.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-6.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-6.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-6.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-6.4	Secured Storage	Dixita Rana	10/17/14 11:33	Retrieve from Storage
JB79217-6.4	Dixita Rana	GCMS2E	10/17/14 11:33	Load on Instrument
JB79217-6.4	GCMS2E	Dixita Rana	10/17/14 12:26	Unload from Instrument
JB79217-6.4	Dixita Rana	Secured Storage	10/17/14 12:26	Return to Storage
JB79217-6.4	Secured Storage	Dixita Rana	10/17/14 15:12	Retrieve from Storage
JB79217-6.4	Dixita Rana	GCMS2E	10/17/14 15:13	Load on Instrument
JB79217-6.4	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-6.4	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 10/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB79217-7.2	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-7.2	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-7.2	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-7.2	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-7.2.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-7.2
JB79217-7.2.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-7.2
JB79217-7.2.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-7.2.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-7.2.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-7.2.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-7.2.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage
JB79217-7.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-7.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-7.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-7.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-7.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-7.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-7.4	Secured Storage	Dixita Rana	10/22/14 10:35	Retrieve from Storage
JB79217-7.4	Dixita Rana	GCMS2E	10/22/14 10:35	Load on Instrument
JB79217-7.4	GCMS2E	Dixita Rana	10/23/14 11:47	Unload from Instrument
JB79217-7.4	Dixita Rana	Secured Storage	10/23/14 11:47	Return to Storage
JB79217-7.5	Secured Storage	Dixita Rana	10/17/14 11:33	Retrieve from Storage
JB79217-7.5	Dixita Rana	GCMS2E	10/17/14 11:33	Load on Instrument
JB79217-7.5	GCMS2E	Dixita Rana	10/17/14 12:26	Unload from Instrument
JB79217-7.5	Dixita Rana	Secured Storage	10/17/14 12:26	Return to Storage
JB79217-7.5	Secured Storage	Dixita Rana	10/17/14 15:12	Retrieve from Storage
JB79217-7.5	Dixita Rana	GCMS2E	10/17/14 15:13	Load on Instrument
JB79217-7.5	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-7.5	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage
JB79217-8.1	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-8.1	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-8.1	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-8.1	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-8.1.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-8.1
JB79217-8.1.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-8.1
JB79217-8.1.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-8.1.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 10/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB79217-8.1.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-8.1.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-8.1.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage
JB79217-8.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-8.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-8.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-8.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-8.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-8.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-8.4	Secured Storage	Dixita Rana	10/17/14 11:33	Retrieve from Storage
JB79217-8.4	Dixita Rana	GCMS2E	10/17/14 11:33	Load on Instrument
JB79217-8.4	GCMS2E	Dixita Rana	10/17/14 12:26	Unload from Instrument
JB79217-8.4	Dixita Rana	Secured Storage	10/17/14 12:26	Return to Storage
JB79217-8.4	Secured Storage	Dixita Rana	10/17/14 15:12	Retrieve from Storage
JB79217-8.4	Dixita Rana	GCMS2E	10/17/14 15:13	Load on Instrument
JB79217-8.4	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-8.4	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage
JB79217-8.4	Secured Storage	Payal Rana	10/23/14 11:14	Retrieve from Storage
JB79217-8.4	Payal Rana	GCMS4D	10/23/14 11:14	Load on Instrument
JB79217-8.4	GCMS4D	Payal Rana	10/24/14 08:55	Unload from Instrument
JB79217-8.4	Payal Rana	Secured Storage	10/24/14 08:55	Return to Storage
JB79217-8.5	Secured Storage	Dixita Rana	10/22/14 10:35	Retrieve from Storage
JB79217-8.5	Dixita Rana	GCMS2E	10/22/14 10:35	Load on Instrument
JB79217-8.5	GCMS2E	Dixita Rana	10/23/14 11:47	Unload from Instrument
JB79217-8.5	Dixita Rana	Secured Storage	10/23/14 11:47	Return to Storage
JB79217-9.1	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-9.1	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-9.1	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-9.1	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-9.1.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-9.1
JB79217-9.1.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-9.1
JB79217-9.1.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-9.1.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-9.1.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-9.1.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-9.1.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage
JB79217-9.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-9.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 10/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB79217-9.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-9.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-9.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-9.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-9.4	Secured Storage	Dixita Rana	10/17/14 11:33	Retrieve from Storage
JB79217-9.4	Dixita Rana	GCMS2E	10/17/14 11:33	Load on Instrument
JB79217-9.4	GCMS2E	Dixita Rana	10/17/14 12:26	Unload from Instrument
JB79217-9.4	Dixita Rana	Secured Storage	10/17/14 12:26	Return to Storage
JB79217-9.4	Secured Storage	Dixita Rana	10/17/14 15:12	Retrieve from Storage
JB79217-9.4	Dixita Rana	GCMS2E	10/17/14 15:13	Load on Instrument
JB79217-9.4	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-9.4	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage
JB79217-9.6	Secured Storage	Dixita Rana	10/21/14 14:37	Retrieve from Storage
JB79217-9.6	Dixita Rana	GCMS2E	10/21/14 14:37	Load on Instrument
JB79217-9.6	GCMS2E	Dixita Rana	10/22/14 10:06	Unload from Instrument
JB79217-9.6	Dixita Rana	Secured Storage	10/22/14 10:06	Return to Storage
JB79217-10.2	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-10.2	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-10.2	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-10.2	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-10.2.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-10.2
JB79217-10.2.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-10.2
JB79217-10.2.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-10.2.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-10.2.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-10.2.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-10.2.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage
JB79217-10.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-10.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-10.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-10.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-10.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-10.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-10.4	Secured Storage	Dixita Rana	10/21/14 14:37	Retrieve from Storage
JB79217-10.4	Dixita Rana	GCMS2E	10/21/14 14:37	Load on Instrument
JB79217-10.4	GCMS2E	Dixita Rana	10/22/14 10:06	Unload from Instrument
JB79217-10.4	Dixita Rana	Secured Storage	10/22/14 10:06	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 10/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB79217-10.5	Secured Storage	Dixita Rana	10/17/14 11:33	Retrieve from Storage
JB79217-10.5	Dixita Rana	GCMS2E	10/17/14 11:33	Load on Instrument
JB79217-10.5	GCMS2E	Dixita Rana	10/17/14 12:26	Unload from Instrument
JB79217-10.5	Dixita Rana	Secured Storage	10/17/14 12:26	Return to Storage
JB79217-10.5	Secured Storage	Dixita Rana	10/17/14 15:12	Retrieve from Storage
JB79217-10.5	Dixita Rana	GCMS2E	10/17/14 15:13	Load on Instrument
JB79217-10.5	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-10.5	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage
JB79217-10.6	Secured Storage	Dixita Rana	10/22/14 13:59	Retrieve from Storage
JB79217-10.6	Dixita Rana	Secured Storage	10/22/14 13:59	Return to Storage
JB79217-11.2	Secured Storage	Gage Donahue	10/16/14 09:07	Retrieve from Storage
JB79217-11.2	Gage Donahue	Secured Storage	10/16/14 09:07	Return to Storage
JB79217-11.2	Secured Storage	Raghava Marthi	10/16/14 09:26	Retrieve from Storage
JB79217-11.2	Raghava Marthi		10/16/14 12:42	Depleted
JB79217-11.2.1	Raghava Marthi	Organics Prep	10/16/14 09:37	Extract from JB79217-11.2
JB79217-11.2.1	Organics Prep	Raghava Marthi	10/16/14 12:31	Extract from JB79217-11.2
JB79217-11.2.1	Raghava Marthi	Extract Storage	10/16/14 12:31	Return to Storage
JB79217-11.2.1	Extract Storage	Jinny Mosquera	10/16/14 15:17	Retrieve from Storage
JB79217-11.2.1	Jinny Mosquera	GC2Y	10/16/14 15:17	Load on Instrument
JB79217-11.2.1	GC2Y	Jinny Mosquera	10/22/14 15:22	Unload from Instrument
JB79217-11.2.1	Jinny Mosquera	Extract Freezer	10/22/14 15:22	Return to Storage
JB79217-11.3	Secured Storage	William O'Reilly	10/16/14 10:43	Retrieve from Storage
JB79217-11.3	William O'Reilly	GCUV	10/16/14 12:14	Load on Instrument
JB79217-11.3	GCUV	William O'Reilly	10/16/14 12:15	Unload from Instrument
JB79217-11.3	William O'Reilly	GCUV	10/16/14 12:17	Load on Instrument
JB79217-11.3	GCUV	William O'Reilly	10/17/14 08:36	Unload from Instrument
JB79217-11.3	William O'Reilly	Secured Storage	10/17/14 08:36	Return to Storage
JB79217-11.4	Secured Storage	Dixita Rana	10/22/14 10:35	Retrieve from Storage
JB79217-11.4	Dixita Rana	GCMS2E	10/22/14 10:35	Load on Instrument
JB79217-11.4	GCMS2E	Dixita Rana	10/23/14 11:47	Unload from Instrument
JB79217-11.4	Dixita Rana	Secured Storage	10/23/14 11:47	Return to Storage
JB79217-11.5	Secured Storage	Dixita Rana	10/21/14 14:37	Retrieve from Storage
JB79217-11.5	Dixita Rana	GCMS2E	10/21/14 14:37	Load on Instrument
JB79217-11.5	GCMS2E	Dixita Rana	10/22/14 10:06	Unload from Instrument
JB79217-11.5	Dixita Rana	Secured Storage	10/22/14 10:06	Return to Storage
JB79217-11.6	Secured Storage	Dixita Rana	10/17/14 11:33	Retrieve from Storage
JB79217-11.6	Dixita Rana	GCMS2E	10/17/14 11:33	Load on Instrument

Accutest Internal Chain of Custody

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Received: 10/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB79217-11.6	GCMS2E	Dixita Rana	10/17/14 12:26	Unload from Instrument
JB79217-11.6	Dixita Rana	Secured Storage	10/17/14 12:26	Return to Storage
JB79217-11.6	Secured Storage	Dixita Rana	10/17/14 15:12	Retrieve from Storage
JB79217-11.6	Dixita Rana	GCMS2E	10/17/14 15:13	Load on Instrument
JB79217-11.6	GCMS2E	Dixita Rana	10/20/14 11:06	Unload from Instrument
JB79217-11.6	Dixita Rana	Secured Storage	10/20/14 11:06	Return to Storage

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4803-MB	2E107300.D	1	10/17/14	DR	n/a	n/a	V2E4803

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

JB79217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	ND	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4803-MB	2E107300.D	1	10/17/14	DR	n/a	n/a	V2E4803

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

JB79217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4803-MB	2E107300.D	1	10/17/14	DR	n/a	n/a	V2E4803

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

JB79217-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	79-120%
17060-07-0	1,2-Dichloroethane-D4	106%	72-123%
2037-26-5	Toluene-D8	115%	78-119%
460-00-4	4-Bromofluorobenzene	107%	74-119%

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4806-MB	2E107400.D	1	10/20/14	DR	n/a	n/a	V2E4806

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

JB79217-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	ND	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4806-MB	2E107400.D	1	10/20/14	DR	n/a	n/a	V2E4806

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

JB79217-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4806-MB	2E107400.D	1	10/20/14	DR	n/a	n/a	V2E4806

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

JB79217-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	115%	79-120%
17060-07-0	1,2-Dichloroethane-D4	115%	72-123%
2037-26-5	Toluene-D8	115%	78-119%
460-00-4	4-Bromofluorobenzene	111%	74-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4806-MB2	2E107420.D	1	10/21/14	DR	n/a	n/a	V2E4806

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

JB79217-3, JB79217-4, JB79217-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	ND	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4806-MB2	2E107420.D	1	10/21/14	DR	n/a	n/a	V2E4806

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

JB79217-3, JB79217-4, JB79217-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4806-MB2	2E107420.D	1	10/21/14	DR	n/a	n/a	V2E4806

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

JB79217-3, JB79217-4, JB79217-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	116%	79-120%
17060-07-0	1,2-Dichloroethane-D4	116%	72-123%
2037-26-5	Toluene-D8	117%	78-119%
460-00-4	4-Bromofluorobenzene	112%	74-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4807-MB	2E107436.D	1	10/21/14	DR	n/a	n/a	V2E4807

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

JB79217-1, JB79217-2, JB79217-9, JB79217-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	ND	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4807-MB	2E107436.D	1	10/21/14	DR	n/a	n/a	V2E4807

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

JB79217-1, JB79217-2, JB79217-9, JB79217-10

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4807-MB	2E107436.D	1	10/21/14	DR	n/a	n/a	V2E4807

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

JB79217-1, JB79217-2, JB79217-9, JB79217-10

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	117%	79-120%
17060-07-0	1,2-Dichloroethane-D4	117%	72-123%
2037-26-5	Toluene-D8	116%	78-119%
460-00-4	4-Bromofluorobenzene	112%	74-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4808-MB	2E107473.D	1	10/22/14	DR	n/a	n/a	V2E4808

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

JB79217-7, JB79217-8, JB79217-10, JB79217-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.6	ug/l	
71-43-2	Benzene	ND	0.50	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.28	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.28	ug/l	
75-25-2	Bromoform	ND	1.0	0.31	ug/l	
74-83-9	Bromomethane	ND	2.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.47	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.24	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.27	ug/l	
75-00-3	Chloroethane	ND	1.0	0.56	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.33	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.25	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.16	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.35	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.30	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.24	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.30	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4808-MB	2E107473.D	1	10/22/14	DR	n/a	n/a	V2E4808

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

JB79217-7, JB79217-8, JB79217-10, JB79217-11

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.29	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.26	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.47	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.45	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.81	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.31	ug/l	
100-42-5	Styrene	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.27	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.21	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.19	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.32	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.28	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.98	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.19	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.17	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.17	ug/l	
	m,p-Xylene	ND	1.0	0.45	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4808-MB	2E107473.D	1	10/22/14	DR	n/a	n/a	V2E4808

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

JB79217-7, JB79217-8, JB79217-10, JB79217-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	115%	79-120%
17060-07-0	1,2-Dichloroethane-D4	115%	72-123%
2037-26-5	Toluene-D8	114%	78-119%
460-00-4	4-Bromofluorobenzene	112%	74-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4803-BS	2E107301.D	1	10/17/14	DR	n/a	n/a	V2E4803

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

JB79217-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	44.7	89	52-152
71-43-2	Benzene	50	50.0	100	80-121
108-86-1	Bromobenzene	50	52.3	105	81-121
74-97-5	Bromochloromethane	50	51.6	103	82-125
75-27-4	Bromodichloromethane	50	50.3	101	83-127
75-25-2	Bromoform	50	48.5	97	74-131
74-83-9	Bromomethane	50	54.0	108	45-155
78-93-3	2-Butanone (MEK)	50	47.9	96	67-136
104-51-8	n-Butylbenzene	50	52.5	105	79-126
135-98-8	sec-Butylbenzene	50	51.3	103	80-123
98-06-6	tert-Butylbenzene	50	52.4	105	81-126
56-23-5	Carbon tetrachloride	50	50.0	100	77-138
108-90-7	Chlorobenzene	50	50.9	102	82-119
75-00-3	Chloroethane	50	63.3	127	61-151
67-66-3	Chloroform	50	49.5	99	79-124
74-87-3	Chloromethane	50	48.7	97	48-148
95-49-8	o-Chlorotoluene	50	53.1	106	81-121
106-43-4	p-Chlorotoluene	50	51.4	103	79-118
108-20-3	Di-Isopropyl ether	50	52.2	104	64-135
96-12-8	1,2-Dibromo-3-chloropropane	50	46.8	94	66-137
124-48-1	Dibromochloromethane	50	50.2	100	81-127
106-93-4	1,2-Dibromoethane	50	49.9	100	79-122
95-50-1	1,2-Dichlorobenzene	50	48.8	98	81-121
541-73-1	1,3-Dichlorobenzene	50	50.0	100	81-119
106-46-7	1,4-Dichlorobenzene	50	48.1	96	80-116
75-71-8	Dichlorodifluoromethane	50	47.1	94	33-161
75-34-3	1,1-Dichloroethane	50	51.8	104	78-129
107-06-2	1,2-Dichloroethane	50	52.0	104	75-133
75-35-4	1,1-Dichloroethene	50	49.6	99	74-128
156-59-2	cis-1,2-Dichloroethene	50	49.9	100	78-123
156-60-5	trans-1,2-Dichloroethene	50	48.8	98	75-122
78-87-5	1,2-Dichloropropane	50	52.8	106	80-124
142-28-9	1,3-Dichloropropane	50	50.3	101	79-120
594-20-7	2,2-Dichloropropane	50	51.7	103	50-145
563-58-6	1,1-Dichloropropene	50	51.2	102	77-121
10061-01-5	cis-1,3-Dichloropropene	50	48.9	98	75-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4803-BS	2E107301.D	1	10/17/14	DR	n/a	n/a	V2E4803

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

JB79217-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	47.6	95	78-123
100-41-4	Ethylbenzene	50	49.9	100	82-120
87-68-3	Hexachlorobutadiene	50	48.3	97	69-134
98-82-8	Isopropylbenzene	50	51.6	103	80-124
99-87-6	p-Isopropyltoluene	50	52.3	105	83-127
1634-04-4	Methyl Tert Butyl Ether	100	96.3	96	74-123
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.3	107	68-135
74-95-3	Methylene bromide	50	50.7	101	83-126
75-09-2	Methylene chloride	50	48.2	96	75-121
91-20-3	Naphthalene	50	48.2	96	65-138
103-65-1	n-Propylbenzene	50	54.5	109	81-125
100-42-5	Styrene	50	48.0	96	81-123
75-65-0	Tert Butyl Alcohol	250	234	94	70-132
994-05-8	tert-Amyl Methyl Ether	50	45.6	91	72-126
637-92-3	tert-Butyl Ethyl Ether	50	49.0	98	68-128
630-20-6	1,1,1,2-Tetrachloroethane	50	50.5	101	82-123
79-34-5	1,1,2,2-Tetrachloroethane	50	49.7	99	71-123
127-18-4	Tetrachloroethene	50	46.6	93	69-141
108-88-3	Toluene	50	50.4	101	80-122
87-61-6	1,2,3-Trichlorobenzene	50	46.4	93	71-138
120-82-1	1,2,4-Trichlorobenzene	50	49.7	99	77-132
71-55-6	1,1,1-Trichloroethane	50	51.6	103	80-132
79-00-5	1,1,2-Trichloroethane	50	51.3	103	80-127
79-01-6	Trichloroethene	50	49.5	99	82-126
75-69-4	Trichlorofluoromethane	50	50.7	101	63-141
96-18-4	1,2,3-Trichloropropane	50	51.3	103	74-125
95-63-6	1,2,4-Trimethylbenzene	50	54.8	110	81-122
108-67-8	1,3,5-Trimethylbenzene	50	50.7	101	80-122
75-01-4	Vinyl chloride	50	51.5	103	53-135
	m,p-Xylene	100	101	101	81-121
95-47-6	o-Xylene	50	48.6	97	82-121
1330-20-7	Xylene (total)	150	149	99	82-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4803-BS	2E107301.D	1	10/17/14	DR	n/a	n/a	V2E4803

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

JB79217-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	113%	79-120%
17060-07-0	1,2-Dichloroethane-D4	107%	72-123%
2037-26-5	Toluene-D8	116%	78-119%
460-00-4	4-Bromofluorobenzene	107%	74-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4806-BS	2E107401.D	1	10/20/14	DR	n/a	n/a	V2E4806

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

JB79217-3, JB79217-4, JB79217-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	51.4	103	52-152
71-43-2	Benzene	50	50.8	102	80-121
108-86-1	Bromobenzene	50	52.5	105	81-121
74-97-5	Bromochloromethane	50	52.6	105	82-125
75-27-4	Bromodichloromethane	50	51.4	103	83-127
75-25-2	Bromoform	50	49.3	99	74-131
74-83-9	Bromomethane	50	54.0	108	45-155
78-93-3	2-Butanone (MEK)	50	53.6	107	67-136
104-51-8	n-Butylbenzene	50	52.9	106	79-126
135-98-8	sec-Butylbenzene	50	51.7	103	80-123
98-06-6	tert-Butylbenzene	50	52.7	105	81-126
56-23-5	Carbon tetrachloride	50	50.3	101	77-138
108-90-7	Chlorobenzene	50	50.7	101	82-119
75-00-3	Chloroethane	50	65.3	131	61-151
67-66-3	Chloroform	50	51.2	102	79-124
74-87-3	Chloromethane	50	47.2	94	48-148
95-49-8	o-Chlorotoluene	50	53.8	108	81-121
106-43-4	p-Chlorotoluene	50	51.9	104	79-118
108-20-3	Di-Isopropyl ether	50	56.2	112	64-135
96-12-8	1,2-Dibromo-3-chloropropane	50	48.5	97	66-137
124-48-1	Dibromochloromethane	50	50.1	100	81-127
106-93-4	1,2-Dibromoethane	50	50.2	100	79-122
95-50-1	1,2-Dichlorobenzene	50	49.3	99	81-121
541-73-1	1,3-Dichlorobenzene	50	50.0	100	81-119
106-46-7	1,4-Dichlorobenzene	50	48.4	97	80-116
75-71-8	Dichlorodifluoromethane	50	48.8	98	33-161
75-34-3	1,1-Dichloroethane	50	54.4	109	78-129
107-06-2	1,2-Dichloroethane	50	53.4	107	75-133
75-35-4	1,1-Dichloroethene	50	53.4	107	74-128
156-59-2	cis-1,2-Dichloroethene	50	51.4	103	78-123
156-60-5	trans-1,2-Dichloroethene	50	51.2	102	75-122
78-87-5	1,2-Dichloropropane	50	54.0	108	80-124
142-28-9	1,3-Dichloropropane	50	51.3	103	79-120
594-20-7	2,2-Dichloropropane	50	49.4	99	50-145
563-58-6	1,1-Dichloropropene	50	52.1	104	77-121
10061-01-5	cis-1,3-Dichloropropene	50	49.6	99	75-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4806-BS	2E107401.D	1	10/20/14	DR	n/a	n/a	V2E4806

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

JB79217-3, JB79217-4, JB79217-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	48.6	97	78-123
100-41-4	Ethylbenzene	50	49.7	99	82-120
87-68-3	Hexachlorobutadiene	50	47.5	95	69-134
98-82-8	Isopropylbenzene	50	52.1	104	80-124
99-87-6	p-Isopropyltoluene	50	52.4	105	83-127
1634-04-4	Methyl Tert Butyl Ether	100	99.5	100	74-123
108-10-1	4-Methyl-2-pentanone(MIBK)	50	55.1	110	68-135
74-95-3	Methylene bromide	50	52.3	105	83-126
75-09-2	Methylene chloride	50	50.8	102	75-121
91-20-3	Naphthalene	50	50.5	101	65-138
103-65-1	n-Propylbenzene	50	55.5	111	81-125
100-42-5	Styrene	50	48.1	96	81-123
75-65-0	Tert Butyl Alcohol	250	241	96	70-132
994-05-8	tert-Amyl Methyl Ether	50	46.7	93	72-126
637-92-3	tert-Butyl Ethyl Ether	50	51.1	102	68-128
630-20-6	1,1,1,2-Tetrachloroethane	50	49.5	99	82-123
79-34-5	1,1,2,2-Tetrachloroethane	50	51.5	103	71-123
127-18-4	Tetrachloroethene	50	57.5	115	69-141
108-88-3	Toluene	50	51.0	102	80-122
87-61-6	1,2,3-Trichlorobenzene	50	47.9	96	71-138
120-82-1	1,2,4-Trichlorobenzene	50	50.2	100	77-132
71-55-6	1,1,1-Trichloroethane	50	52.7	105	80-132
79-00-5	1,1,2-Trichloroethane	50	52.7	105	80-127
79-01-6	Trichloroethene	50	50.4	101	82-126
75-69-4	Trichlorofluoromethane	50	52.4	105	63-141
96-18-4	1,2,3-Trichloropropane	50	52.0	104	74-125
95-63-6	1,2,4-Trimethylbenzene	50	55.5	111	81-122
108-67-8	1,3,5-Trimethylbenzene	50	51.3	103	80-122
75-01-4	Vinyl chloride	50	50.0	100	53-135
	m,p-Xylene	100	99.9	100	81-121
95-47-6	o-Xylene	50	47.8	96	82-121
1330-20-7	Xylene (total)	150	148	99	82-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4806-BS	2E107401.D	1	10/20/14	DR	n/a	n/a	V2E4806

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

JB79217-3, JB79217-4, JB79217-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	117%	79-120%
17060-07-0	1,2-Dichloroethane-D4	112%	72-123%
2037-26-5	Toluene-D8	118%	78-119%
460-00-4	4-Bromofluorobenzene	111%	74-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4807-BS	2E107437.D	1	10/21/14	DR	n/a	n/a	V2E4807

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

JB79217-1, JB79217-2, JB79217-9, JB79217-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	58.5	117	52-152
71-43-2	Benzene	50	50.7	101	80-121
108-86-1	Bromobenzene	50	51.5	103	81-121
74-97-5	Bromochloromethane	50	51.3	103	82-125
75-27-4	Bromodichloromethane	50	50.7	101	83-127
75-25-2	Bromoform	50	47.9	96	74-131
74-83-9	Bromomethane	50	60.4	121	45-155
78-93-3	2-Butanone (MEK)	50	54.7	109	67-136
104-51-8	n-Butylbenzene	50	53.6	107	79-126
135-98-8	sec-Butylbenzene	50	52.4	105	80-123
98-06-6	tert-Butylbenzene	50	52.9	106	81-126
56-23-5	Carbon tetrachloride	50	50.6	101	77-138
108-90-7	Chlorobenzene	50	49.7	99	82-119
75-00-3	Chloroethane	50	70.7	141	61-151
67-66-3	Chloroform	50	50.8	102	79-124
74-87-3	Chloromethane	50	53.7	107	48-148
95-49-8	o-Chlorotoluene	50	53.4	107	81-121
106-43-4	p-Chlorotoluene	50	52.3	105	79-118
108-20-3	Di-Isopropyl ether	50	57.1	114	64-135
96-12-8	1,2-Dibromo-3-chloropropane	50	51.5	103	66-137
124-48-1	Dibromochloromethane	50	49.9	100	81-127
106-93-4	1,2-Dibromoethane	50	50.4	101	79-122
95-50-1	1,2-Dichlorobenzene	50	48.9	98	81-121
541-73-1	1,3-Dichlorobenzene	50	49.4	99	81-119
106-46-7	1,4-Dichlorobenzene	50	47.5	95	80-116
75-71-8	Dichlorodifluoromethane	50	50.0	100	33-161
75-34-3	1,1-Dichloroethane	50	54.2	108	78-129
107-06-2	1,2-Dichloroethane	50	54.1	108	75-133
75-35-4	1,1-Dichloroethene	50	52.0	104	74-128
156-59-2	cis-1,2-Dichloroethene	50	51.4	103	78-123
156-60-5	trans-1,2-Dichloroethene	50	50.8	102	75-122
78-87-5	1,2-Dichloropropane	50	54.0	108	80-124
142-28-9	1,3-Dichloropropane	50	51.8	104	79-120
594-20-7	2,2-Dichloropropane	50	52.5	105	50-145
563-58-6	1,1-Dichloropropene	50	54.3	109	77-121
10061-01-5	cis-1,3-Dichloropropene	50	50.2	100	75-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4807-BS	2E107437.D	1	10/21/14	DR	n/a	n/a	V2E4807

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

JB79217-1, JB79217-2, JB79217-9, JB79217-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	49.8	100	78-123
100-41-4	Ethylbenzene	50	49.9	100	82-120
87-68-3	Hexachlorobutadiene	50	46.8	94	69-134
98-82-8	Isopropylbenzene	50	51.9	104	80-124
99-87-6	p-Isopropyltoluene	50	52.9	106	83-127
1634-04-4	Methyl Tert Butyl Ether	100	99.8	100	74-123
108-10-1	4-Methyl-2-pentanone(MIBK)	50	56.9	114	68-135
74-95-3	Methylene bromide	50	52.5	105	83-126
75-09-2	Methylene chloride	50	49.4	99	75-121
91-20-3	Naphthalene	50	51.6	103	65-138
103-65-1	n-Propylbenzene	50	55.4	111	81-125
100-42-5	Styrene	50	47.9	96	81-123
75-65-0	Tert Butyl Alcohol	250	241	96	70-132
994-05-8	tert-Amyl Methyl Ether	50	47.0	94	72-126
637-92-3	tert-Butyl Ethyl Ether	50	51.8	104	68-128
630-20-6	1,1,1,2-Tetrachloroethane	50	50.2	100	82-123
79-34-5	1,1,2,2-Tetrachloroethane	50	53.2	106	71-123
127-18-4	Tetrachloroethene	50	43.1	86	69-141
108-88-3	Toluene	50	51.0	102	80-122
87-61-6	1,2,3-Trichlorobenzene	50	48.6	97	71-138
120-82-1	1,2,4-Trichlorobenzene	50	50.5	101	77-132
71-55-6	1,1,1-Trichloroethane	50	53.0	106	80-132
79-00-5	1,1,2-Trichloroethane	50	52.7	105	80-127
79-01-6	Trichloroethene	50	49.2	98	82-126
75-69-4	Trichlorofluoromethane	50	55.8	112	63-141
96-18-4	1,2,3-Trichloropropane	50	52.8	106	74-125
95-63-6	1,2,4-Trimethylbenzene	50	55.4	111	81-122
108-67-8	1,3,5-Trimethylbenzene	50	51.2	102	80-122
75-01-4	Vinyl chloride	50	56.5	113	53-135
	m,p-Xylene	100	100	100	81-121
95-47-6	o-Xylene	50	48.3	97	82-121
1330-20-7	Xylene (total)	150	148	99	82-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4807-BS	2E107437.D	1	10/21/14	DR	n/a	n/a	V2E4807

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

JB79217-1, JB79217-2, JB79217-9, JB79217-10

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	116%	79-120%
17060-07-0	1,2-Dichloroethane-D4	114%	72-123%
2037-26-5	Toluene-D8	117%	78-119%
460-00-4	4-Bromofluorobenzene	111%	74-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4808-BS	2E107474.D	1	10/22/14	DR	n/a	n/a	V2E4808

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

JB79217-7, JB79217-8, JB79217-10, JB79217-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	46.1	92	52-152
71-43-2	Benzene	50	48.3	97	80-121
108-86-1	Bromobenzene	50	52.2	104	81-121
74-97-5	Bromochloromethane	50	51.0	102	82-125
75-27-4	Bromodichloromethane	50	49.0	98	83-127
75-25-2	Bromoform	50	47.7	95	74-131
74-83-9	Bromomethane	50	60.7	121	45-155
78-93-3	2-Butanone (MEK)	50	50.3	101	67-136
104-51-8	n-Butylbenzene	50	51.5	103	79-126
135-98-8	sec-Butylbenzene	50	49.7	99	80-123
98-06-6	tert-Butylbenzene	50	50.5	101	81-126
56-23-5	Carbon tetrachloride	50	46.7	93	77-138
108-90-7	Chlorobenzene	50	49.5	99	82-119
75-00-3	Chloroethane	50	72.2	144	61-151
67-66-3	Chloroform	50	51.2	102	79-124
74-87-3	Chloromethane	50	53.8	108	48-148
95-49-8	o-Chlorotoluene	50	52.2	104	81-121
106-43-4	p-Chlorotoluene	50	51.9	104	79-118
108-20-3	Di-Isopropyl ether	50	57.5	115	64-135
96-12-8	1,2-Dibromo-3-chloropropane	50	50.0	100	66-137
124-48-1	Dibromochloromethane	50	49.5	99	81-127
106-93-4	1,2-Dibromoethane	50	49.7	99	79-122
95-50-1	1,2-Dichlorobenzene	50	48.5	97	81-121
541-73-1	1,3-Dichlorobenzene	50	48.5	97	81-119
106-46-7	1,4-Dichlorobenzene	50	47.3	95	80-116
75-71-8	Dichlorodifluoromethane	50	46.4	93	33-161
75-34-3	1,1-Dichloroethane	50	52.5	105	78-129
107-06-2	1,2-Dichloroethane	50	52.1	104	75-133
75-35-4	1,1-Dichloroethene	50	49.9	100	74-128
156-59-2	cis-1,2-Dichloroethene	50	50.2	100	78-123
156-60-5	trans-1,2-Dichloroethene	50	49.2	98	75-122
78-87-5	1,2-Dichloropropane	50	52.3	105	80-124
142-28-9	1,3-Dichloropropane	50	51.4	103	79-120
594-20-7	2,2-Dichloropropane	50	52.3	105	50-145
563-58-6	1,1-Dichloropropene	50	52.1	104	77-121
10061-01-5	cis-1,3-Dichloropropene	50	50.1	100	75-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4808-BS	2E107474.D	1	10/22/14	DR	n/a	n/a	V2E4808

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

JB79217-7, JB79217-8, JB79217-10, JB79217-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	50.2	100	78-123
100-41-4	Ethylbenzene	50	47.6	95	82-120
87-68-3	Hexachlorobutadiene	50	44.4	89	69-134
98-82-8	Isopropylbenzene	50	49.7	99	80-124
99-87-6	p-Isopropyltoluene	50	50.9	102	83-127
1634-04-4	Methyl Tert Butyl Ether	100	98.9	99	74-123
108-10-1	4-Methyl-2-pentanone(MIBK)	50	54.2	108	68-135
74-95-3	Methylene bromide	50	50.8	102	83-126
75-09-2	Methylene chloride	50	49.2	98	75-121
91-20-3	Naphthalene	50	50.2	100	65-138
103-65-1	n-Propylbenzene	50	53.5	107	81-125
100-42-5	Styrene	50	47.3	95	81-123
75-65-0	Tert Butyl Alcohol	250	248	99	70-132
994-05-8	tert-Amyl Methyl Ether	50	47.9	96	72-126
637-92-3	tert-Butyl Ethyl Ether	50	52.8	106	68-128
630-20-6	1,1,1,2-Tetrachloroethane	50	48.9	98	82-123
79-34-5	1,1,2,2-Tetrachloroethane	50	53.1	106	71-123
127-18-4	Tetrachloroethene	50	38.8	78	69-141
108-88-3	Toluene	50	48.7	97	80-122
87-61-6	1,2,3-Trichlorobenzene	50	47.5	95	71-138
120-82-1	1,2,4-Trichlorobenzene	50	48.9	98	77-132
71-55-6	1,1,1-Trichloroethane	50	50.0	100	80-132
79-00-5	1,1,2-Trichloroethane	50	51.5	103	80-127
79-01-6	Trichloroethene	50	47.2	94	82-126
75-69-4	Trichlorofluoromethane	50	54.6	109	63-141
96-18-4	1,2,3-Trichloropropane	50	52.9	106	74-125
95-63-6	1,2,4-Trimethylbenzene	50	53.6	107	81-122
108-67-8	1,3,5-Trimethylbenzene	50	49.4	99	80-122
75-01-4	Vinyl chloride	50	54.9	110	53-135
	m,p-Xylene	100	96.8	97	81-121
95-47-6	o-Xylene	50	47.0	94	82-121
1330-20-7	Xylene (total)	150	144	96	82-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E4808-BS	2E107474.D	1	10/22/14	DR	n/a	n/a	V2E4808

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

JB79217-7, JB79217-8, JB79217-10, JB79217-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	116%	79-120%
17060-07-0	1,2-Dichloroethane-D4	114%	72-123%
2037-26-5	Toluene-D8	116%	78-119%
460-00-4	4-Bromofluorobenzene	111%	74-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79143-1MS	2E107310.D	1	10/17/14	DR	n/a	n/a	V2E4803
JB79143-1MSD	2E107311.D	1	10/17/14	DR	n/a	n/a	V2E4803
JB79143-1	2E107305.D	1	10/17/14	DR	n/a	n/a	V2E4803

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

JB79217-6

CAS No.	Compound	JB79143-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	45.8	92	50	43.6	87	5	44-160/20
71-43-2	Benzene	ND		50	44.9	90	50	44.3	89	1	50-136/12
108-86-1	Bromobenzene	ND		50	49.4	99	50	49.3	99	0	73-127/11
74-97-5	Bromochloromethane	ND		50	50.8	102	50	50.1	100	1	74-131/11
75-27-4	Bromodichloromethane	ND		50	47.3	95	50	47.1	94	0	74-132/11
75-25-2	Bromoform	ND		50	48.6	97	50	48.3	97	1	68-136/12
74-83-9	Bromomethane	ND		50	47.8	96	50	48.2	96	1	37-157/21
78-93-3	2-Butanone (MEK)	ND		50	49.4	99	50	49.1	98	1	60-145/15
104-51-8	n-Butylbenzene	ND		50	44.7	89	50	44.6	89	0	53-141/15
135-98-8	sec-Butylbenzene	ND		50	44.9	90	50	44.1	88	2	54-137/15
98-06-6	tert-Butylbenzene	ND		50	45.4	91	50	45.3	91	0	58-137/14
56-23-5	Carbon tetrachloride	ND		50	43.7	87	50	41.9	84	4	46-152/17
108-90-7	Chlorobenzene	ND		50	46.7	93	50	47.0	94	1	70-127/12
75-00-3	Chloroethane	ND		50	46.2	92	50	46.7	93	1	44-147/16
67-66-3	Chloroform	ND		50	46.2	92	50	45.5	91	2	67-129/12
74-87-3	Chloromethane	ND		50	42.3	85	50	42.7	85	1	40-149/19
95-49-8	o-Chlorotoluene	ND		50	48.0	96	50	47.6	95	1	67-129/12
106-43-4	p-Chlorotoluene	ND		50	47.2	94	50	47.2	94	0	68-125/12
108-20-3	Di-Isopropyl ether	ND		50	49.2	98	50	49.1	98	0	59-137/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	49.6	99	50	47.7	95	4	61-144/14
124-48-1	Dibromochloromethane	ND		50	49.7	99	50	49.7	99	0	74-131/10
106-93-4	1,2-Dibromoethane	ND		50	49.7	99	50	49.5	99	0	74-129/10
95-50-1	1,2-Dichlorobenzene	ND		50	47.0	94	50	46.8	94	0	73-126/11
541-73-1	1,3-Dichlorobenzene	ND		50	47.4	95	50	47.3	95	0	71-124/12
106-46-7	1,4-Dichlorobenzene	ND		50	45.6	91	50	45.5	91	0	71-123/12
75-71-8	Dichlorodifluoromethane	ND		50	41.3	83	50	39.2	78	5	20-161/25
75-34-3	1,1-Dichloroethane	ND		50	46.8	94	50	46.2	92	1	61-134/12
107-06-2	1,2-Dichloroethane	ND		50	50.0	100	50	48.9	98	2	68-137/11
75-35-4	1,1-Dichloroethene	ND		50	42.6	85	50	41.8	84	2	40-143/17
156-59-2	cis-1,2-Dichloroethene	ND		50	47.1	94	50	46.5	93	1	59-133/12
156-60-5	trans-1,2-Dichloroethene	ND		50	44.1	88	50	43.3	87	2	55-132/14
78-87-5	1,2-Dichloropropane	ND		50	48.2	96	50	47.9	96	1	70-128/11
142-28-9	1,3-Dichloropropane	ND		50	49.6	99	50	50.0	100	1	73-125/10
594-20-7	2,2-Dichloropropane	ND		50	46.5	93	50	45.0	90	3	39-149/16
563-58-6	1,1-Dichloropropene	ND		50	45.9	92	50	44.6	89	3	50-141/16
10061-01-5	cis-1,3-Dichloropropene	ND		50	47.2	94	50	47.1	94	0	73-127/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79143-1MS	2E107310.D	1	10/17/14	DR	n/a	n/a	V2E4803
JB79143-1MSD	2E107311.D	1	10/17/14	DR	n/a	n/a	V2E4803
JB79143-1	2E107305.D	1	10/17/14	DR	n/a	n/a	V2E4803

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

JB79217-6

CAS No.	Compound	JB79143-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		50	48.6	97	50	48.7	97	0	72-128/11
100-41-4	Ethylbenzene	ND		50	44.7	89	50	44.3	89	1	49-137/13
87-68-3	Hexachlorobutadiene	ND		50	41.1	82	50	40.8	82	1	44-145/17
98-82-8	Isopropylbenzene	ND		50	45.2	90	50	44.3	89	2	57-136/14
99-87-6	p-Isopropyltoluene	ND		50	45.6	91	50	44.9	90	2	58-135/14
1634-04-4	Methyl Tert Butyl Ether	ND		50	48.5	97	50	48.0	96	1	64-134/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	54.1	108	50	52.3	105	3	63-144/13
74-95-3	Methylene bromide	ND		50	51.4	103	50	50.8	102	1	75-130/10
75-09-2	Methylene chloride	ND		50	46.7	93	50	46.1	92	1	64-128/11
91-20-3	Naphthalene	ND		50	50.4	101	50	49.4	99	2	53-153/14
103-65-1	n-Propylbenzene	ND		50	45.8	92	50	44.9	90	2	53-138/14
100-42-5	Styrene	ND		50	44.7	89	50	44.8	90	0	67-130/12
75-65-0	Tert Butyl Alcohol	ND		250	272	109	250	278	111	2	64-154/16
994-05-8	tert-Amyl Methyl Ether	ND		50	44.7	89	50	46.5	93	4	67-128/11
637-92-3	tert-Butyl Ethyl Ether	ND		50	47.4	95	50	47.0	94	1	67-130/12
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	47.8	96	50	47.5	95	1	73-129/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	53.3	107	50	51.9	104	3	68-131/11
127-18-4	Tetrachloroethene	ND		50	36.2	72	50	35.7	71	1	48-143/15
108-88-3	Toluene	ND		50	45.3	91	50	45.0	90	1	54-137/13
87-61-6	1,2,3-Trichlorobenzene	ND		50	46.2	92	50	45.7	91	1	62-143/13
120-82-1	1,2,4-Trichlorobenzene	ND		50	47.4	95	50	47.3	95	0	66-138/12
71-55-6	1,1,1-Trichloroethane	ND		50	45.1	90	50	44.1	88	2	52-145/16
79-00-5	1,1,2-Trichloroethane	ND		50	51.2	102	50	50.1	100	2	73-130/10
79-01-6	Trichloroethene	ND		50	43.6	87	50	42.8	86	2	54-141/13
75-69-4	Trichlorofluoromethane	5.8		50	51.6	92	50	49.2	87	5	33-159/25
96-18-4	1,2,3-Trichloropropane	ND		50	52.8	106	50	51.3	103	3	70-133/11
95-63-6	1,2,4-Trimethylbenzene	ND		50	47.6	95	50	47.2	94	1	50-139/13
108-67-8	1,3,5-Trimethylbenzene	ND		50	45.8	92	50	45.2	90	1	56-136/14
75-01-4	Vinyl chloride	ND		50	44.1	88	50	43.9	88	0	36-149/19
	m,p-Xylene	ND		100	90.4	90	100	89.8	90	1	50-137/12
95-47-6	o-Xylene	ND		50	44.8	90	50	44.0	88	2	60-134/12
1330-20-7	Xylene (total)	ND		150	135	90	150	134	89	1	53-136/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79143-1MS	2E107310.D	1	10/17/14	DR	n/a	n/a	V2E4803
JB79143-1MSD	2E107311.D	1	10/17/14	DR	n/a	n/a	V2E4803
JB79143-1	2E107305.D	1	10/17/14	DR	n/a	n/a	V2E4803

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

JB79217-6

CAS No.	Surrogate Recoveries	MS	MSD	JB79143-1	Limits
1868-53-7	Dibromofluoromethane	117%	115%	113%	79-120%
17060-07-0	1,2-Dichloroethane-D4	110%	109%	110%	72-123%
2037-26-5	Toluene-D8	117%	117%	114%	78-119%
460-00-4	4-Bromofluorobenzene	108%	107%	111%	74-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79025-22MS	2E107406.D	25	10/20/14	DR	n/a	n/a	V2E4806
JB79025-22MSD	2E107407.D	25	10/20/14	DR	n/a	n/a	V2E4806
JB79025-22	2E107405.D	25	10/20/14	DR	n/a	n/a	V2E4806

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

JB79217-3, JB79217-4, JB79217-5

CAS No.	Compound	JB79025-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	1180	94	1250	1190	95	1	44-160/20
71-43-2	Benzene	2290		1250	3370	86	1250	3330	83	1	50-136/12
108-86-1	Bromobenzene	ND		1250	1330	106	1250	1300	104	2	73-127/11
74-97-5	Bromochloromethane	ND		1250	1360	109	1250	1340	107	1	74-131/11
75-27-4	Bromodichloromethane	ND		1250	1290	103	1250	1260	101	2	74-132/11
75-25-2	Bromoform	ND		1250	1250	100	1250	1230	98	2	68-136/12
74-83-9	Bromomethane	ND		1250	1530	122	1250	1530	122	0	37-157/21
78-93-3	2-Butanone (MEK)	ND		1250	1250	100	1250	1250	100	0	60-145/15
104-51-8	n-Butylbenzene	ND		1250	1360	109	1250	1340	107	1	53-141/15
135-98-8	sec-Butylbenzene	ND		1250	1350	108	1250	1340	107	1	54-137/15
98-06-6	tert-Butylbenzene	ND		1250	1360	109	1250	1350	108	1	58-137/14
56-23-5	Carbon tetrachloride	ND		1250	1260	101	1250	1270	102	1	46-152/17
108-90-7	Chlorobenzene	ND		1250	1310	105	1250	1290	103	2	70-127/12
75-00-3	Chloroethane	ND		1250	1540	123	1250	1520	122	1	44-147/16
67-66-3	Chloroform	ND		1250	1340	107	1250	1300	104	3	67-129/12
74-87-3	Chloromethane	ND		1250	1430	114	1250	1410	113	1	40-149/19
95-49-8	o-Chlorotoluene	ND		1250	1370	110	1250	1350	108	1	67-129/12
106-43-4	p-Chlorotoluene	ND		1250	1340	107	1250	1310	105	2	68-125/12
108-20-3	Di-Isopropyl ether	ND		1250	1510	121	1250	1460	117	3	59-137/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1250	100	1250	1240	99	1	61-144/14
124-48-1	Dibromochloromethane	ND		1250	1310	105	1250	1290	103	2	74-131/10
106-93-4	1,2-Dibromoethane	ND		1250	1270	102	1250	1260	101	1	74-129/10
95-50-1	1,2-Dichlorobenzene	ND		1250	1270	102	1250	1250	100	2	73-126/11
541-73-1	1,3-Dichlorobenzene	ND		1250	1300	104	1250	1290	103	1	71-124/12
106-46-7	1,4-Dichlorobenzene	ND		1250	1230	98	1250	1220	98	1	71-123/12
75-71-8	Dichlorodifluoromethane	ND		1250	1540	123	1250	1510	121	2	20-161/25
75-34-3	1,1-Dichloroethane	ND		1250	1410	113	1250	1360	109	4	61-134/12
107-06-2	1,2-Dichloroethane	ND		1250	1400	112	1250	1370	110	2	68-137/11
75-35-4	1,1-Dichloroethene	ND		1250	1370	110	1250	1340	107	2	40-143/17
156-59-2	cis-1,2-Dichloroethene	ND		1250	1350	108	1250	1310	105	3	59-133/12
156-60-5	trans-1,2-Dichloroethene	ND		1250	1370	110	1250	1330	106	3	55-132/14
78-87-5	1,2-Dichloropropane	ND		1250	1350	108	1250	1320	106	2	70-128/11
142-28-9	1,3-Dichloropropane	ND		1250	1320	106	1250	1280	102	3	73-125/10
594-20-7	2,2-Dichloropropane	ND		1250	1370	110	1250	1340	107	2	39-149/16
563-58-6	1,1-Dichloropropene	ND		1250	1370	110	1250	1360	109	1	50-141/16
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1270	102	1250	1250	100	2	73-127/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79025-22MS	2E107406.D	25	10/20/14	DR	n/a	n/a	V2E4806
JB79025-22MSD	2E107407.D	25	10/20/14	DR	n/a	n/a	V2E4806
JB79025-22	2E107405.D	25	10/20/14	DR	n/a	n/a	V2E4806

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

JB79217-3, JB79217-4, JB79217-5

CAS No.	Compound	JB79025-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1270	102	1250	1250	100	2	72-128/11
100-41-4	Ethylbenzene	390		1250	1670	102	1250	1650	101	1	49-137/13
87-68-3	Hexachlorobutadiene	ND		1250	1220	98	1250	1240	99	2	44-145/17
98-82-8	Isopropylbenzene	ND		1250	1360	109	1250	1350	108	1	57-136/14
99-87-6	p-Isopropyltoluene	ND		1250	1360	109	1250	1340	107	1	58-135/14
1634-04-4	Methyl Tert Butyl Ether	2840		1250	4090	100	1250	4020	94	2	64-134/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		1250	1340	107	1250	1320	106	2	63-144/13
74-95-3	Methylene bromide	ND		1250	1310	105	1250	1300	104	1	75-130/10
75-09-2	Methylene chloride	ND		1250	1320	106	1250	1280	102	3	64-128/11
91-20-3	Naphthalene	ND		1250	1370	110	1250	1380	110	1	53-153/14
103-65-1	n-Propylbenzene	ND		1250	1390	111	1250	1370	110	1	53-138/14
100-42-5	Styrene	ND		1250	1260	101	1250	1250	100	1	67-130/12
75-65-0	Tert Butyl Alcohol	546		6250	6510	95	6250	6630	97	2	64-154/16
994-05-8	tert-Amyl Methyl Ether	101		1250	1330	98	1250	1290	95	3	67-128/11
637-92-3	tert-Butyl Ethyl Ether	ND		1250	1370	110	1250	1330	106	3	67-130/12
630-20-6	1,1,1,2-Tetrachloroethane	ND		1250	1310	105	1250	1310	105	0	73-129/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1380	110	1250	1360	109	1	68-131/11
127-18-4	Tetrachloroethene	ND		1250	1050	84	1250	1050	84	0	48-143/15
108-88-3	Toluene	803		1250	2030	98	1250	2020	97	0	54-137/13
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1210	97	1250	1210	97	0	62-143/13
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1260	101	1250	1260	101	0	66-138/12
71-55-6	1,1,1-Trichloroethane	ND		1250	1360	109	1250	1350	108	1	52-145/16
79-00-5	1,1,2-Trichloroethane	ND		1250	1300	104	1250	1280	102	2	73-130/10
79-01-6	Trichloroethene	ND		1250	1260	101	1250	1240	99	2	54-141/13
75-69-4	Trichlorofluoromethane	ND		1250	1550	124	1250	1530	122	1	33-159/25
96-18-4	1,2,3-Trichloropropane	ND		1250	1320	106	1250	1310	105	1	70-133/11
95-63-6	1,2,4-Trimethylbenzene	ND		1250	1430	114	1250	1410	113	1	50-139/13
108-67-8	1,3,5-Trimethylbenzene	ND		1250	1360	109	1250	1340	107	1	56-136/14
75-01-4	Vinyl chloride	ND		1250	1550	124	1250	1510	121	3	36-149/19
	m,p-Xylene	394		2500	2960	103	2500	2960	103	0	50-137/12
95-47-6	o-Xylene	215		1250	1480	101	1250	1480	101	0	60-134/12
1330-20-7	Xylene (total)	608		3750	4450	102	3750	4440	102	0	53-136/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79025-22MS	2E107406.D	25	10/20/14	DR	n/a	n/a	V2E4806
JB79025-22MSD	2E107407.D	25	10/20/14	DR	n/a	n/a	V2E4806
JB79025-22	2E107405.D	25	10/20/14	DR	n/a	n/a	V2E4806

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

JB79217-3, JB79217-4, JB79217-5

CAS No.	Surrogate Recoveries	MS	MSD	JB79025-22	Limits
1868-53-7	Dibromofluoromethane	120%	116%	113%	79-120%
17060-07-0	1,2-Dichloroethane-D4	114%	110%	110%	72-123%
2037-26-5	Toluene-D8	115%	115%	113%	78-119%
460-00-4	4-Bromofluorobenzene	111%	108%	109%	74-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79025-9MS	2E107448.D	50	10/21/14	DR	n/a	n/a	V2E4807
JB79025-9MSD	2E107449.D	50	10/21/14	DR	n/a	n/a	V2E4807
JB79025-9	2E107440.D	50	10/21/14	DR	n/a	n/a	V2E4807

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

JB79217-1, JB79217-2, JB79217-9, JB79217-10

CAS No.	Compound	JB79025-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2500	2180	87	2500	2430	97	11	44-160/20
71-43-2	Benzene	2340		2500	4760	97	2500	4770	97	0	50-136/12
108-86-1	Bromobenzene	ND		2500	2630	105	2500	2630	105	0	73-127/11
74-97-5	Bromochloromethane	ND		2500	2690	108	2500	2680	107	0	74-131/11
75-27-4	Bromodichloromethane	ND		2500	2620	105	2500	2610	104	0	74-132/11
75-25-2	Bromoform	ND		2500	2380	95	2500	2400	96	1	68-136/12
74-83-9	Bromomethane	ND		2500	2880	115	2500	2980	119	3	37-157/21
78-93-3	2-Butanone (MEK)	ND		2500	2450	98	2500	2520	101	3	60-145/15
104-51-8	n-Butylbenzene	ND		2500	2680	107	2500	2720	109	1	53-141/15
135-98-8	sec-Butylbenzene	ND		2500	2670	107	2500	2720	109	2	54-137/15
98-06-6	tert-Butylbenzene	ND		2500	2710	108	2500	2760	110	2	58-137/14
56-23-5	Carbon tetrachloride	ND		2500	2550	102	2500	2580	103	1	46-152/17
108-90-7	Chlorobenzene	ND		2500	2580	103	2500	2590	104	0	70-127/12
75-00-3	Chloroethane	ND		2500	2970	119	2500	3070	123	3	44-147/16
67-66-3	Chloroform	ND		2500	2610	104	2500	2630	105	1	67-129/12
74-87-3	Chloromethane	ND		2500	2750	110	2500	2800	112	2	40-149/19
95-49-8	o-Chlorotoluene	ND		2500	2750	110	2500	2760	110	0	67-129/12
106-43-4	p-Chlorotoluene	ND		2500	2690	108	2500	2670	107	1	68-125/12
108-20-3	Di-Isopropyl ether	ND		2500	2820	113	2500	2840	114	1	59-137/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		2500	2430	97	2500	2520	101	4	61-144/14
124-48-1	Dibromochloromethane	ND		2500	2550	102	2500	2550	102	0	74-131/10
106-93-4	1,2-Dibromoethane	ND		2500	2530	101	2500	2540	102	0	74-129/10
95-50-1	1,2-Dichlorobenzene	ND		2500	2480	99	2500	2510	100	1	73-126/11
541-73-1	1,3-Dichlorobenzene	ND		2500	2590	104	2500	2600	104	0	71-124/12
106-46-7	1,4-Dichlorobenzene	ND		2500	2460	98	2500	2460	98	0	71-123/12
75-71-8	Dichlorodifluoromethane	ND		2500	2920	117	2500	2960	118	1	20-161/25
75-34-3	1,1-Dichloroethane	ND		2500	2750	110	2500	2780	111	1	61-134/12
107-06-2	1,2-Dichloroethane	ND		2500	2770	111	2500	2790	112	1	68-137/11
75-35-4	1,1-Dichloroethene	ND		2500	2700	108	2500	2750	110	2	40-143/17
156-59-2	cis-1,2-Dichloroethene	ND		2500	2650	106	2500	2690	108	1	59-133/12
156-60-5	trans-1,2-Dichloroethene	ND		2500	2670	107	2500	2710	108	1	55-132/14
78-87-5	1,2-Dichloropropane	ND		2500	2730	109	2500	2730	109	0	70-128/11
142-28-9	1,3-Dichloropropane	ND		2500	2620	105	2500	2620	105	0	73-125/10
594-20-7	2,2-Dichloropropane	ND		2500	2670	107	2500	2720	109	2	39-149/16
563-58-6	1,1-Dichloropropene	ND		2500	2780	111	2500	2780	111	0	50-141/16
10061-01-5	cis-1,3-Dichloropropene	ND		2500	2590	104	2500	2560	102	1	73-127/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79025-9MS	2E107448.D	50	10/21/14	DR	n/a	n/a	V2E4807
JB79025-9MSD	2E107449.D	50	10/21/14	DR	n/a	n/a	V2E4807
JB79025-9	2E107440.D	50	10/21/14	DR	n/a	n/a	V2E4807

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

JB79217-1, JB79217-2, JB79217-9, JB79217-10

CAS No.	Compound	JB79025-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		2500	2590	104	2500	2580	103	0	72-128/11
100-41-4	Ethylbenzene	1400		2500	3900	100	2500	3930	101	1	49-137/13
87-68-3	Hexachlorobutadiene	ND		2500	2350	94	2500	2470	99	5	44-145/17
98-82-8	Isopropylbenzene	ND		2500	2730	109	2500	2740	110	0	57-136/14
99-87-6	p-Isopropyltoluene	ND		2500	2680	107	2500	2720	109	1	58-135/14
1634-04-4	Methyl Tert Butyl Ether	41.4	J	2500	2560	101	2500	2620	103	2	64-134/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2500	2710	108	2500	2720	109	0	63-144/13
74-95-3	Methylene bromide	ND		2500	2650	106	2500	2650	106	0	75-130/10
75-09-2	Methylene chloride	ND		2500	2630	105	2500	2640	106	0	64-128/11
91-20-3	Naphthalene	262		2500	2750	100	2500	2840	103	3	53-153/14
103-65-1	n-Propylbenzene	ND		2500	2880	115	2500	2900	116	1	53-138/14
100-42-5	Styrene	ND		2500	2560	102	2500	2560	102	0	67-130/12
75-65-0	Tert Butyl Alcohol	1030		12500	13100	97	12500	13100	97	0	64-154/16
994-05-8	tert-Amyl Methyl Ether	201		2500	2530	93	2500	2580	95	2	67-128/11
637-92-3	tert-Butyl Ethyl Ether	ND		2500	2560	102	2500	2590	104	1	67-130/12
630-20-6	1,1,1,2-Tetrachloroethane	ND		2500	2570	103	2500	2590	104	1	73-129/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		2500	2730	109	2500	2730	109	0	68-131/11
127-18-4	Tetrachloroethene	ND		2500	2080	83	2500	2110	84	1	48-143/15
108-88-3	Toluene	7330		2500	9470	86	2500	9500	87	0	54-137/13
87-61-6	1,2,3-Trichlorobenzene	ND		2500	2350	94	2500	2410	96	3	62-143/13
120-82-1	1,2,4-Trichlorobenzene	ND		2500	2480	99	2500	2540	102	2	66-138/12
71-55-6	1,1,1-Trichloroethane	ND		2500	2670	107	2500	2730	109	2	52-145/16
79-00-5	1,1,2-Trichloroethane	ND		2500	2710	108	2500	2660	106	2	73-130/10
79-01-6	Trichloroethene	ND		2500	2530	101	2500	2560	102	1	54-141/13
75-69-4	Trichlorofluoromethane	ND		2500	2980	119	2500	3080	123	3	33-159/25
96-18-4	1,2,3-Trichloropropane	ND		2500	2600	104	2500	2690	108	3	70-133/11
95-63-6	1,2,4-Trimethylbenzene	1540		2500	4190	106	2500	4230	108	1	50-139/13
108-67-8	1,3,5-Trimethylbenzene	426		2500	3060	105	2500	3090	107	1	56-136/14
75-01-4	Vinyl chloride	ND		2500	2940	118	2500	3050	122	4	36-149/19
	m,p-Xylene	4180		5000	9110	99	5000	9170	100	1	50-137/12
95-47-6	o-Xylene	1870		2500	4350	99	2500	4350	99	0	60-134/12
1330-20-7	Xylene (total)	6050		7500	13500	99	7500	13500	99	0	53-136/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79025-9MS	2E107448.D	50	10/21/14	DR	n/a	n/a	V2E4807
JB79025-9MSD	2E107449.D	50	10/21/14	DR	n/a	n/a	V2E4807
JB79025-9	2E107440.D	50	10/21/14	DR	n/a	n/a	V2E4807

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

JB79217-1, JB79217-2, JB79217-9, JB79217-10

CAS No.	Surrogate Recoveries	MS	MSD	JB79025-9	Limits
1868-53-7	Dibromofluoromethane	118%	118%	115%	79-120%
17060-07-0	1,2-Dichloroethane-D4	113%	113%	117%	72-123%
2037-26-5	Toluene-D8	118%	118%	116%	78-119%
460-00-4	4-Bromofluorobenzene	111%	111%	113%	74-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79217-7MS	2E107483.D	1	10/22/14	DR	n/a	n/a	V2E4808
JB79217-7MSD	2E107484.D	1	10/22/14	DR	n/a	n/a	V2E4808
JB79217-7	2E107478.D	1	10/22/14	DR	n/a	n/a	V2E4808

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

JB79217-7, JB79217-8, JB79217-10, JB79217-11

CAS No.	Compound	JB79217-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	51.1	102	50	48.7	97	5	44-160/20
71-43-2	Benzene	0.38	J	50	46.5	92	50	46.2	92	1	50-136/12
108-86-1	Bromobenzene	ND		50	50.3	101	50	50.5	101	0	73-127/11
74-97-5	Bromochloromethane	ND		50	50.9	102	50	51.1	102	0	74-131/11
75-27-4	Bromodichloromethane	ND		50	48.7	97	50	49.2	98	1	74-132/11
75-25-2	Bromoform	ND		50	48.5	97	50	48.4	97	0	68-136/12
74-83-9	Bromomethane	ND		50	49.9	100	50	50.9	102	2	37-157/21
78-93-3	2-Butanone (MEK)	ND		50	52.2	104	50	52.2	104	0	60-145/15
104-51-8	n-Butylbenzene	ND		50	46.0	92	50	46.0	92	0	53-141/15
135-98-8	sec-Butylbenzene	ND		50	46.2	92	50	46.1	92	0	54-137/15
98-06-6	tert-Butylbenzene	ND		50	47.2	94	50	47.0	94	0	58-137/14
56-23-5	Carbon tetrachloride	ND		50	43.7	87	50	44.2	88	1	46-152/17
108-90-7	Chlorobenzene	ND		50	48.1	96	50	48.0	96	0	70-127/12
75-00-3	Chloroethane	ND		50	50.2	100	50	51.8	104	3	44-147/16
67-66-3	Chloroform	ND		50	47.4	95	50	47.5	95	0	67-129/12
74-87-3	Chloromethane	ND		50	45.6	91	50	46.6	93	2	40-149/19
95-49-8	o-Chlorotoluene	ND		50	49.2	98	50	49.5	99	1	67-129/12
106-43-4	p-Chlorotoluene	ND		50	49.0	98	50	48.7	97	1	68-125/12
108-20-3	Di-Isopropyl ether	ND		50	48.7	97	50	49.3	99	1	59-137/12
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	52.8	106	50	53.2	106	1	61-144/14
124-48-1	Dibromochloromethane	ND		50	49.8	100	50	50.3	101	1	74-131/10
106-93-4	1,2-Dibromoethane	ND		50	50.6	101	50	50.5	101	0	74-129/10
95-50-1	1,2-Dichlorobenzene	ND		50	47.1	94	50	47.8	96	1	73-126/11
541-73-1	1,3-Dichlorobenzene	ND		50	47.5	95	50	48.0	96	1	71-124/12
106-46-7	1,4-Dichlorobenzene	ND		50	45.9	92	50	46.4	93	1	71-123/12
75-71-8	Dichlorodifluoromethane	ND		50	48.7	97	50	47.8	96	2	20-161/25
75-34-3	1,1-Dichloroethane	ND		50	48.2	96	50	48.2	96	0	61-134/12
107-06-2	1,2-Dichloroethane	ND		50	51.9	104	50	51.4	103	1	68-137/11
75-35-4	1,1-Dichloroethene	ND		50	45.0	90	50	44.2	88	2	40-143/17
156-59-2	cis-1,2-Dichloroethene	ND		50	48.4	97	50	47.7	95	1	59-133/12
156-60-5	trans-1,2-Dichloroethene	ND		50	45.7	91	50	45.5	91	0	55-132/14
78-87-5	1,2-Dichloropropane	ND		50	50.1	100	50	50.6	101	1	70-128/11
142-28-9	1,3-Dichloropropane	ND		50	50.9	102	50	51.3	103	1	73-125/10
594-20-7	2,2-Dichloropropane	ND		50	47.5	95	50	47.1	94	1	39-149/16
563-58-6	1,1-Dichloropropene	ND		50	47.4	95	50	47.2	94	0	50-141/16
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.2	96	50	47.9	96	1	73-127/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79217-7MS	2E107483.D	1	10/22/14	DR	n/a	n/a	V2E4808
JB79217-7MSD	2E107484.D	1	10/22/14	DR	n/a	n/a	V2E4808
JB79217-7	2E107478.D	1	10/22/14	DR	n/a	n/a	V2E4808

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

JB79217-7, JB79217-8, JB79217-10, JB79217-11

CAS No.	Compound	JB79217-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		50	49.8	100	50	49.5	99	1	72-128/11
100-41-4	Ethylbenzene	ND		50	46.3	93	50	46.1	92	0	49-137/13
87-68-3	Hexachlorobutadiene	ND		50	41.3	83	50	40.6	81	2	44-145/17
98-82-8	Isopropylbenzene	0.27	J	50	47.4	94	50	46.9	93	1	57-136/14
99-87-6	p-Isopropyltoluene	ND		50	46.8	94	50	46.7	93	0	58-135/14
1634-04-4	Methyl Tert Butyl Ether	ND		50	48.7	97	50	49.6	99	2	64-134/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	58.3	117	50	59.1	118	1	63-144/13
74-95-3	Methylene bromide	ND		50	51.5	103	50	51.8	104	1	75-130/10
75-09-2	Methylene chloride	ND		50	47.3	95	50	47.5	95	0	64-128/11
91-20-3	Naphthalene	1.2	J	50	56.2	110	50	54.7	107	3	53-153/14
103-65-1	n-Propylbenzene	ND		50	47.6	95	50	47.0	94	1	53-138/14
100-42-5	Styrene	ND		50	46.1	92	50	46.4	93	1	67-130/12
75-65-0	Tert Butyl Alcohol	ND		250	243	97	250	250	100	3	64-154/16
994-05-8	tert-Amyl Methyl Ether	ND		50	43.2	86	50	43.6	87	1	67-128/11
637-92-3	tert-Butyl Ethyl Ether	ND		50	45.7	91	50	46.1	92	1	67-130/12
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	48.1	96	50	48.9	98	2	73-129/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	55.5	111	50	55.0	110	1	68-131/11
127-18-4	Tetrachloroethene	ND		50	37.4	75	50	37.0	74	1	48-143/15
108-88-3	Toluene	ND		50	47.1	94	50	47.4	95	1	54-137/13
87-61-6	1,2,3-Trichlorobenzene	ND		50	46.7	93	50	47.1	94	1	62-143/13
120-82-1	1,2,4-Trichlorobenzene	ND		50	47.1	94	50	47.4	95	1	66-138/12
71-55-6	1,1,1-Trichloroethane	ND		50	46.0	92	50	46.3	93	1	52-145/16
79-00-5	1,1,2-Trichloroethane	ND		50	51.9	104	50	52.0	104	0	73-130/10
79-01-6	Trichloroethene	ND		50	45.0	90	50	45.0	90	0	54-141/13
75-69-4	Trichlorofluoromethane	ND		50	51.6	103	50	51.1	102	1	33-159/25
96-18-4	1,2,3-Trichloropropane	ND		50	54.5	109	50	53.1	106	3	70-133/11
95-63-6	1,2,4-Trimethylbenzene	2.9		50	50.8	96	50	50.7	96	0	50-139/13
108-67-8	1,3,5-Trimethylbenzene	0.44	J	50	47.6	94	50	47.4	94	0	56-136/14
75-01-4	Vinyl chloride	ND		50	49.8	100	50	49.0	98	2	36-149/19
	m,p-Xylene	1.5		100	93.4	92	100	93.3	92	0	50-137/12
95-47-6	o-Xylene	5.7		50	48.8	86	50	49.2	87	1	60-134/12
1330-20-7	Xylene (total)	7.3		150	142	90	150	143	90	1	53-136/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79217-7MS	2E107483.D	1	10/22/14	DR	n/a	n/a	V2E4808
JB79217-7MSD	2E107484.D	1	10/22/14	DR	n/a	n/a	V2E4808
JB79217-7	2E107478.D	1	10/22/14	DR	n/a	n/a	V2E4808

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

JB79217-7, JB79217-8, JB79217-10, JB79217-11

CAS No.	Surrogate Recoveries	MS	MSD	JB79217-7	Limits
1868-53-7	Dibromofluoromethane	115%	115%	114%	79-120%
17060-07-0	1,2-Dichloroethane-D4	111%	110%	114%	72-123%
2037-26-5	Toluene-D8	118%	117%	117%	78-119%
460-00-4	4-Bromofluorobenzene	111%	110%	111%	74-119%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4773-BFB
Lab File ID: 2E104659A.D
Instrument ID: GCMS2E
Injection Date: 07/30/14
Injection Time: 13:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17565	16.0		Pass
75	30.0 - 60.0% of mass 95	48560	44.3		Pass
95	Base peak, 100% relative abundance	109600	100.0		Pass
96	5.0 - 9.0% of mass 95	7301	6.66		Pass
173	Less than 2.0% of mass 174	515	0.47	(0.54) [a]	Pass
174	50.0 - 120.0% of mass 95	94517	86.2		Pass
175	5.0 - 9.0% of mass 174	7135	6.51	(7.55) [a]	Pass
176	95.0 - 101.0% of mass 174	91730	83.7	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	6187	5.65	(6.74) [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
V2E4693-IC4693	2E104662.D	07/30/14	15:42	02:30	Initial cal 0.86
V2E4773-IC4774	2E104662A.D	07/30/14	15:42	02:30	Initial cal 0.86
V2E4693-IC4693	2E104663.D	07/30/14	16:10	02:58	Initial cal 2.15
V2E4773-IC4774	2E104663A.D	07/30/14	16:10	02:58	Initial cal 2.15
V2E4773-IC4774	2E104664A.D	07/30/14	16:39	03:27	Initial cal 4.3
V2E4693-ICC4693	2E104664.D	07/30/14	16:39	03:27	Initial cal 4.3
V2E4693-IC4693	2E104665.D	07/30/14	17:08	03:56	Initial cal 8.6
V2E4773-IC4774	2E104665A.D	07/30/14	17:08	03:56	Initial cal 8.6
V2E4693-IC4693	2E104666.D	07/30/14	17:37	04:25	Initial cal 21.5
V2E4773-IC4774	2E104666A.D	07/30/14	17:37	04:25	Initial cal 21.5
V2E4693-IC4693	2E104667.D	07/30/14	18:06	04:54	Initial cal 43.0
V2E4773-IC4774	2E104667A.D	07/30/14	18:06	04:54	Initial cal 43.0
V2E4693-IC4693	2E104668.D	07/30/14	18:35	05:23	Initial cal 86
V2E4693-IC4693	2E104670.D	07/30/14	19:32	06:20	Initial cal 0.43
V2E4773-IC4774	2E104670A.D	07/30/14	19:32	06:20	Initial cal 0.43
V2E4693-IC4693	2E104671.D	07/30/14	20:01	06:49	Initial cal 0.215
V2E4773-IC4774	2E104671A.D	07/30/14	20:01	06:49	Initial cal 0.215
V2E4693-ICV4693	2E104672.D	07/30/14	20:30	07:18	Initial cal verification 4.3
V2E4773-ICV4774	2E104672A.D	07/30/14	20:30	07:18	Initial cal verification 4.3
ZZZZZZ	2E104674.D	07/30/14	21:27	08:15	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4774-BFB
Lab File ID: 2E106638.D
Instrument ID: GCMS2E
Injection Date: 09/29/14
Injection Time: 11:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15487	17.1		Pass
75	30.0 - 60.0% of mass 95	40376	44.6		Pass
95	Base peak, 100% relative abundance	90565	100.0		Pass
96	5.0 - 9.0% of mass 95	6216	6.86		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	75370	83.2		Pass
175	5.0 - 9.0% of mass 174	5439	6.01	(7.22) [a]	Pass
176	95.0 - 101.0% of mass 174	72765	80.3	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4663	5.15	(6.41) [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
V2E4774-IC4774	2E106639.D	09/29/14	12:30	00:33	Initial cal 0.2
V2E4774-IC4774	2E106644.D	09/29/14	15:22	03:25	Initial cal 5
V2E4774-IC4774	2E106645.D	09/29/14	15:51	03:54	Initial cal 10
V2E4774-IC4774	2E106646.D	09/29/14	16:20	04:23	Initial cal 20
V2E4774-ICC4774	2E106647.D	09/29/14	16:48	04:51	Initial cal 50
V2E4774-IC4774	2E106648.D	09/29/14	17:17	05:20	Initial cal 100
V2E4774-IC4774	2E106649.D	09/29/14	17:46	05:49	Initial cal 200
V2E4774-IC4774	2E106653.D	09/29/14	19:41	07:44	Initial cal 2
V2E4774-IC4774	2E106654.D	09/29/14	20:10	08:13	Initial cal 1
V2E4774-IC4774	2E106655.D	09/29/14	20:38	08:41	Initial cal 0.5
V2E4774-ICV4774	2E106656.D	09/29/14	21:07	09:10	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4803-BFB
Lab File ID: 2E107296.D
Instrument ID: GCMS2E
Injection Date: 10/17/14
Injection Time: 08:10

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14414	16.1		Pass
75	30.0 - 60.0% of mass 95	38557	43.1		Pass
95	Base peak, 100% relative abundance	89379	100.0		Pass
96	5.0 - 9.0% of mass 95	6122	6.85		Pass
173	Less than 2.0% of mass 174	656	0.73	(0.90) [a]	Pass
174	50.0 - 120.0% of mass 95	73227	81.9		Pass
175	5.0 - 9.0% of mass 174	5397	6.04	(7.37) [a]	Pass
176	95.0 - 101.0% of mass 174	70979	79.4	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	4734	5.30	(6.67) [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
V2E4803-CC4774	2E107298.D	10/17/14	09:32	01:22	Continuing cal 20
V2E4803-MB	2E107300.D	10/17/14	10:35	02:25	Method Blank
V2E4803-BS	2E107301.D	10/17/14	11:23	03:13	Blank Spike
ZZZZZZ	2E107303.D	10/17/14	12:28	04:18	(unrelated sample)
ZZZZZZ	2E107304.D	10/17/14	12:56	04:46	(unrelated sample)
JB79143-1	2E107305.D	10/17/14	13:25	05:15	(used for QC only; not part of job JB79217)
ZZZZZZ	2E107306.D	10/17/14	13:54	05:44	(unrelated sample)
ZZZZZZ	2E107307.D	10/17/14	14:23	06:13	(unrelated sample)
ZZZZZZ	2E107308.D	10/17/14	14:52	06:42	(unrelated sample)
ZZZZZZ	2E107309.D	10/17/14	15:21	07:11	(unrelated sample)
JB79143-1MS	2E107310.D	10/17/14	16:01	07:51	Matrix Spike
JB79143-1MSD	2E107311.D	10/17/14	16:30	08:20	Matrix Spike Duplicate
JB79217-6	2E107313.D	10/17/14	17:32	09:22	MW-7

Instrument Performance Check (BFB)

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4806-BFB
Lab File ID: 2E107396.D
Instrument ID: GCMS2E
Injection Date: 10/20/14
Injection Time: 11:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14782	16.5		Pass
75	30.0 - 60.0% of mass 95	39720	44.2		Pass
95	Base peak, 100% relative abundance	89800	100.0		Pass
96	5.0 - 9.0% of mass 95	6142	6.84		Pass
173	Less than 2.0% of mass 174	426	0.47	(0.57) [a]	Pass
174	50.0 - 120.0% of mass 95	74256	82.7		Pass
175	5.0 - 9.0% of mass 174	5424	6.04	(7.30) [a]	Pass
176	95.0 - 101.0% of mass 174	71685	79.8	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4653	5.18	(6.49) [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
V2E4806-CC4774	2E107398.D	10/20/14	12:56	01:04	Continuing cal 20
V2E4806-MB	2E107400.D	10/20/14	15:29	03:37	Method Blank
V2E4806-BS	2E107401.D	10/20/14	16:03	04:11	Blank Spike
ZZZZZZ	2E107403.D	10/20/14	17:10	05:18	(unrelated sample)
ZZZZZZ	2E107404.D	10/20/14	17:39	05:47	(unrelated sample)
JB79025-22	2E107405.D	10/20/14	18:08	06:16	(used for QC only; not part of job JB79217)
JB79025-22MS	2E107406.D	10/20/14	18:37	06:45	Matrix Spike
JB79025-22MSD	2E107407.D	10/20/14	19:05	07:13	Matrix Spike Duplicate
ZZZZZZ	2E107409.D	10/20/14	20:03	08:11	(unrelated sample)
ZZZZZZ	2E107410.D	10/20/14	20:32	08:40	(unrelated sample)
ZZZZZZ	2E107411.D	10/20/14	21:01	09:09	(unrelated sample)
ZZZZZZ	2E107412.D	10/20/14	21:30	09:38	(unrelated sample)
ZZZZZZ	2E107414.D	10/20/14	22:27	10:35	(unrelated sample)
ZZZZZZ	2E107415.D	10/20/14	22:56	11:04	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4806-BFB
Lab File ID: 2E107417.D
Instrument ID: GCMS2E
Injection Date: 10/20/14
Injection Time: 23:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14258	16.6		Pass
75	30.0 - 60.0% of mass 95	37771	43.9		Pass
95	Base peak, 100% relative abundance	86075	100.0		Pass
96	5.0 - 9.0% of mass 95	5807	6.75		Pass
173	Less than 2.0% of mass 174	588	0.68	(0.85) [a]	Pass
174	50.0 - 120.0% of mass 95	68813	79.9		Pass
175	5.0 - 9.0% of mass 174	5203	6.04	(7.56) [a]	Pass
176	95.0 - 101.0% of mass 174	67968	79.0	(98.8) [a]	Pass
177	5.0 - 9.0% of mass 176	4364	5.07	(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
V2E4806-CC4774	2E107418.D	10/21/14	00:23	00:29	Continuing cal 50
V2E4806-MB2	2E107420.D	10/21/14	01:21	01:27	Method Blank
ZZZZZZ	2E107421.D	10/21/14	01:50	01:56	(unrelated sample)
ZZZZZZ	2E107422.D	10/21/14	02:19	02:25	(unrelated sample)
ZZZZZZ	2E107423.D	10/21/14	02:48	02:54	(unrelated sample)
ZZZZZZ	2E107424.D	10/21/14	03:17	03:23	(unrelated sample)
ZZZZZZ	2E107425.D	10/21/14	03:45	03:51	(unrelated sample)
ZZZZZZ	2E107426.D	10/21/14	04:14	04:20	(unrelated sample)
ZZZZZZ	2E107427.D	10/21/14	04:43	04:49	(unrelated sample)
JB79217-3	2E107428.D	10/21/14	05:12	05:18	MW-4R
JB79217-4	2E107429.D	10/21/14	05:41	05:47	MW-5
JB79217-5	2E107430.D	10/21/14	06:10	06:16	MW-6

Instrument Performance Check (BFB)

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4807-BFB
Lab File ID: 2E107434.D
Instrument ID: GCMS2E
Injection Date: 10/21/14
Injection Time: 10:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13881	16.0		Pass
75	30.0 - 60.0% of mass 95	38173	44.0		Pass
95	Base peak, 100% relative abundance	86688	100.0		Pass
96	5.0 - 9.0% of mass 95	5819	6.71		Pass
173	Less than 2.0% of mass 174	632	0.73	(0.86) [a]	Pass
174	50.0 - 120.0% of mass 95	73200	84.4		Pass
175	5.0 - 9.0% of mass 174	5404	6.23	(7.38) [a]	Pass
176	95.0 - 101.0% of mass 174	70907	81.8	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	4624	5.33	(6.52) [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
V2E4807-CC4774	2E107435.D	10/21/14	10:43	00:39	Continuing cal 20
V2E4807-MB	2E107436.D	10/21/14	11:16	01:12	Method Blank
V2E4807-BS	2E107437.D	10/21/14	11:49	01:45	Blank Spike
ZZZZZZ	2E107439.D	10/21/14	12:52	02:48	(unrelated sample)
JB79025-9	2E107440.D	10/21/14	13:21	03:17	(used for QC only; not part of job JB79217)
ZZZZZZ	2E107442.D	10/21/14	14:19	04:15	(unrelated sample)
ZZZZZZ	2E107443.D	10/21/14	14:48	04:44	(unrelated sample)
ZZZZZZ	2E107444.D	10/21/14	15:17	05:13	(unrelated sample)
ZZZZZZ	2E107445.D	10/21/14	15:45	05:41	(unrelated sample)
ZZZZZZ	2E107446.D	10/21/14	16:14	06:10	(unrelated sample)
ZZZZZZ	2E107447.D	10/21/14	16:43	06:39	(unrelated sample)
JB79025-9MS	2E107448.D	10/21/14	17:12	07:08	Matrix Spike
JB79025-9MSD	2E107449.D	10/21/14	17:41	07:37	Matrix Spike Duplicate
ZZZZZZ	2E107450.D	10/21/14	18:10	08:06	(unrelated sample)
JB79217-1	2E107451.D	10/21/14	18:39	08:35	MW-1
JB79217-2	2E107452.D	10/21/14	19:08	09:04	MW-3
JB79217-9	2E107453.D	10/21/14	19:37	09:33	MW-10R
JB79217-10	2E107454.D	10/21/14	20:06	10:02	TF-1

Instrument Performance Check (BFB)

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4808-BFB
Lab File ID: 2E107470.D
Instrument ID: GCMS2E
Injection Date: 10/22/14
Injection Time: 08:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15690	16.7		Pass
75	30.0 - 60.0% of mass 95	41869	44.7		Pass
95	Base peak, 100% relative abundance	93693	100.0		Pass
96	5.0 - 9.0% of mass 95	6391	6.82		Pass
173	Less than 2.0% of mass 174	503	0.54	(0.66) [a]	Pass
174	50.0 - 120.0% of mass 95	76427	81.6		Pass
175	5.0 - 9.0% of mass 174	5489	5.86	(7.18) [a]	Pass
176	95.0 - 101.0% of mass 174	74525	79.5	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4941	5.27	(6.63) [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
V2E4808-CC4774	2E107471.D	10/22/14	09:34	00:56	Continuing cal 20
V2E4808-MB	2E107473.D	10/22/14	10:45	02:07	Method Blank
V2E4808-BS	2E107474.D	10/22/14	11:14	02:36	Blank Spike
ZZZZZZ	2E107476.D	10/22/14	12:19	03:41	(unrelated sample)
ZZZZZZ	2E107477.D	10/22/14	12:48	04:10	(unrelated sample)
JB79217-7	2E107478.D	10/22/14	13:17	04:39	MW-8
JB79217-11	2E107479.D	10/22/14	13:46	05:08	TF-2
JB79217-8	2E107480.D	10/22/14	14:15	05:37	MW-9
ZZZZZZ	2E107481.D	10/22/14	14:44	06:06	(unrelated sample)
JB79217-7MS	2E107483.D	10/22/14	15:43	07:05	Matrix Spike
JB79217-7MSD	2E107484.D	10/22/14	16:12	07:34	Matrix Spike Duplicate
JB79217-10	2E107485.D	10/22/14	16:45	08:07	TF-1
ZZZZZZ	2E107487.D	10/22/14	17:43	09:05	(unrelated sample)
ZZZZZZ	2E107488.D	10/22/14	18:12	09:34	(unrelated sample)
ZZZZZZ	2E107489.D	10/22/14	18:41	10:03	(unrelated sample)
ZZZZZZ	2E107490.D	10/22/14	19:09	10:31	(unrelated sample)
ZZZZZZ	2E107491.D	10/22/14	19:38	11:00	(unrelated sample)
ZZZZZZ	2E107492.D	10/22/14	20:07	11:29	(unrelated sample)
ZZZZZZ	2E107493.D	10/22/14	20:36	11:58	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	V2E4803-CC4774	**Injection Date:**	10/17/14
Lab File ID:	2E107298.D	**Injection Time:**	09:32
Instrument ID:	GCMS2E	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	152907	6.81	383849	8.99	449555	9.91	370363	13.10	196309	15.43
Upper Limit [a]	305814	7.31	767698	9.49	899110	10.41	740726	13.60	392618	15.93
Lower Limit [b]	76454	6.31	191925	8.49	224778	9.41	185182	12.60	98155	14.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2E4803-MB	137695	6.81	356062	8.99	416217	9.91	353091	13.10	189085	15.43
V2E4803-BS	135462	6.82	371571	8.99	433275	9.90	363077	13.10	194650	15.42
ZZZZZZ	129405	6.81	352701	8.99	415061	9.91	349825	13.10	185844	15.43
ZZZZZZ	128101	6.81	359102	8.99	424444	9.91	361350	13.10	188981	15.43
JB79143-1	114216	6.81	331925	8.99	396531	9.91	335954	13.10	175513	15.43
ZZZZZZ	122274	6.81	342949	8.99	404048	9.90	344880	13.10	179879	15.43
ZZZZZZ	130293	6.81	333529	8.99	397843	9.91	340436	13.10	180148	15.43
ZZZZZZ	127758	6.81	344703	8.99	410597	9.90	342816	13.10	181440	15.43
ZZZZZZ	115310	6.81	342187	8.99	412018	9.91	346781	13.10	182778	15.43
JB79143-1MS	137628	6.81	343852	8.99	404364	9.90	339009	13.10	182118	15.43
JB79143-1MSD	135595	6.81	346892	8.99	412248	9.90	346488	13.10	186676	15.43
JB79217-6	128826	6.81	342929	8.99	409960	9.90	348130	13.10	184091	15.43

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

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

Volatile Internal Standard Area Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	V2E4806-CC4774	**Injection Date:**	10/20/14
Lab File ID:	2E107398.D	**Injection Time:**	12:56
Instrument ID:	GCMS2E	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	145956	6.81	377778	8.99	454926	9.91	376875	13.10	200088	15.42
Upper Limit [a]	291912	7.31	755556	9.49	909852	10.41	753750	13.60	400176	15.92
Lower Limit [b]	72978	6.31	188889	8.49	227463	9.41	188438	12.60	100044	14.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2E4806-MB	167391	6.81	386570	8.99	461188	9.91	389922	13.10	202490	15.43
V2E4806-BS	149002	6.82	389791	8.99	464822	9.91	396886	13.10	208050	15.43
ZZZZZZ	145145	6.82	390083	8.99	462730	9.91	389287	13.10	207250	15.43
ZZZZZZ	141594	6.81	362778	8.99	433133	9.90	367330	13.10	193196	15.43
JB79025-22	156353	6.81	394089	8.99	464212	9.91	393285	13.10	209134	15.43
JB79025-22MS	143692	6.81	361834	8.99	443073	9.90	367869	13.10	195352	15.42
JB79025-22MSD	151364	6.81	378983	8.99	458353	9.90	381438	13.10	203881	15.42
ZZZZZZ	145436	6.82	389908	8.99	463068	9.90	393837	13.10	210007	15.43
ZZZZZZ	146388	6.81	385336	8.99	457492	9.91	388940	13.10	207818	15.43
ZZZZZZ	138752	6.82	380115	8.99	449604	9.90	386262	13.10	204602	15.43
ZZZZZZ	140738	6.81	356405	8.99	426959	9.90	368234	13.10	193469	15.43
ZZZZZZ	134827	6.81	347771	8.99	419198	9.91	362776	13.10	188231	15.43
ZZZZZZ	144972	6.81	377800	8.99	450833	9.91	383222	13.10	201404	15.43

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

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

Volatile Internal Standard Area Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	V2E4806-CC4774	**Injection Date:**	10/21/14
Lab File ID:	2E107418.D	**Injection Time:**	00:23
Instrument ID:	GCMS2E	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	141953	6.81	373893	8.99	454701	9.90	380352	13.10	202251	15.42
Upper Limit [a]	283906	7.31	747786	9.49	909402	10.40	760704	13.60	404502	15.92
Lower Limit [b]	70977	6.31	186947	8.49	227351	9.40	190176	12.60	101126	14.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2E4806-MB2	150280	6.81	374066	8.99	447695	9.91	380266	13.10	199542	15.43
ZZZZZZ	140502	6.81	336485	8.99	409910	9.91	348522	13.10	181934	15.43
ZZZZZZ	143140	6.81	376209	8.99	457303	9.91	389377	13.10	200179	15.43
ZZZZZZ	143080	6.81	373505	8.99	448822	9.91	383793	13.10	201066	15.43
ZZZZZZ	134520	6.81	338087	8.99	418902	9.91	355905	13.10	184820	15.43
ZZZZZZ	137642	6.81	348717	8.99	426194	9.91	364561	13.10	191299	15.43
ZZZZZZ	151361	6.81	365462	8.99	441151	9.91	381563	13.10	199515	15.43
ZZZZZZ	142644	6.81	354112	8.99	434304	9.90	372170	13.10	191129	15.43
JB79217-3	140694	6.81	367587	8.99	443989	9.91	380393	13.10	197771	15.43
JB79217-4	144593	6.80	361719	8.99	443824	9.90	377120	13.10	196255	15.43
JB79217-5	151543	6.81	370939	8.99	448013	9.90	386040	13.10	198942	15.43

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

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

Volatile Internal Standard Area Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	V2E4807-CC4774	**Injection Date:**	10/21/14
Lab File ID:	2E107435.D	**Injection Time:**	10:43
Instrument ID:	GCMS2E	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	141854	6.81	351254	8.99	426519	9.91	352659	13.10	188250	15.43
Upper Limit [a]	283708	7.31	702508	9.49	853038	10.41	705318	13.60	376500	15.93
Lower Limit [b]	70927	6.31	175627	8.49	213260	9.41	176330	12.60	94125	14.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2E4807-MB	142132	6.81	332825	9.00	395144	9.91	337379	13.11	177106	15.43
V2E4807-BS	136945	6.82	338603	8.99	404036	9.91	343169	13.10	182960	15.42
ZZZZZZ	131419	6.81	315381	8.99	383867	9.90	329339	13.10	172823	15.43
JB79025-9	134306	6.81	322169	8.99	392523	9.91	335360	13.10	172911	15.43
ZZZZZZ	136799	6.81	332671	8.99	407230	9.91	346513	13.10	178919	15.43
ZZZZZZ	136285	6.82	341747	8.99	408238	9.91	347302	13.10	180257	15.43
ZZZZZZ	136997	6.81	335205	8.99	401560	9.91	343567	13.10	179808	15.43
ZZZZZZ	144200	6.81	347850	8.99	423170	9.90	362208	13.10	192435	15.43
ZZZZZZ	145246	6.81	360389	8.99	428049	9.91	364445	13.10	189879	15.43
ZZZZZZ	146638	6.81	365302	8.99	431932	9.91	366383	13.10	191230	15.43
JB79025-9MS	134920	6.81	359209	8.99	427104	9.90	365468	13.10	192433	15.42
JB79025-9MSD	143380	6.81	356707	8.99	428547	9.90	364429	13.10	193246	15.42
ZZZZZZ	142068	6.81	349677	8.99	425508	9.90	361672	13.10	189696	15.43
JB79217-1	127489	6.81	364546	8.99	439058	9.91	377790	13.10	197173	15.43
JB79217-2	127452	6.81	360112	8.99	431947	9.91	368243	13.10	193951	15.43
JB79217-9	161295	6.80	357928	8.99	428631	9.90	365476	13.10	191448	15.43
JB79217-10	135438	6.81	335637	8.99	405125	9.91	352509	13.10	196225	15.43

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

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

Volatile Internal Standard Area Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	V2E4808-CC4774	**Injection Date:**	10/22/14
Lab File ID:	2E107471.D	**Injection Time:**	09:34
Instrument ID:	GCMS2E	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	156831	6.81	367018	8.99	450915	9.91	376845	13.10	195882	15.42
Upper Limit [a]	313662	7.31	734036	9.49	901830	10.41	753690	13.60	391764	15.92
Lower Limit [b]	78416	6.31	183509	8.49	225458	9.41	188423	12.60	97941	14.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2E4808-MB	153993	6.81	369828	9.00	439728	9.91	372783	13.10	193676	15.43
V2E4808-BS	135574	6.82	367071	8.99	447525	9.90	376584	13.10	198124	15.42
ZZZZZZ	142389	6.81	345356	8.99	411133	9.91	350466	13.10	182803	15.43
ZZZZZZ	142015	6.81	341948	8.99	411495	9.91	350523	13.10	182430	15.43
JB79217-7	132906	6.82	355035	8.99	420902	9.90	361389	13.10	188681	15.43
JB79217-11	130977	6.80	362648	8.99	426911	9.90	368465	13.10	194664	15.43
JB79217-8	140647	6.81	370138	8.99	443817	9.91	377874	13.10	199943	15.43
ZZZZZZ	176170	6.81	384222	8.99	463566	9.90	393227	13.10	223490	15.43
JB79217-7MS	190306	6.81	401164	8.99	473374	9.91	402256	13.10	212291	15.42
JB79217-7MSD	183605	6.81	398178	8.99	467444	9.90	398221	13.10	213584	15.42
JB79217-10	154268	6.81	361221	8.99	432745	9.91	366870	13.10	194145	15.43
ZZZZZZ	149548	6.81	398019	8.99	470682	9.91	403037	13.10	210297	15.43
ZZZZZZ	147267	6.81	367866	8.99	439086	9.90	377169	13.10	199994	15.43
ZZZZZZ	143888	6.81	372159	8.99	446631	9.90	382998	13.10	200961	15.43
ZZZZZZ	155629	6.81	377469	8.99	455543	9.90	391073	13.10	206700	15.43
ZZZZZZ	152993	6.81	381706	8.99	457080	9.91	388942	13.10	205707	15.43
ZZZZZZ	151101	6.81	380152	8.99	451069	9.90	387747	13.10	204147	15.43
ZZZZZZ	152377	6.81	380545	8.99	452361	9.90	384373	13.10	204684	15.43

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

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

Volatile Surrogate Recovery Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB79217-1	2E107451.D	114	116	116	112
JB79217-2	2E107452.D	116	114	115	111
JB79217-3	2E107428.D	116	118	116	112
JB79217-4	2E107429.D	116	118	114	112
JB79217-5	2E107430.D	116	117	116	111
JB79217-6	2E107313.D	114	111	114	110
JB79217-7	2E107478.D	114	114	117	111
JB79217-8	2E107480.D	116	115	114	110
JB79217-9	2E107453.D	115	115	115	112
JB79217-10	2E107485.D	115	114	115	112
JB79217-10	2E107454.D	118	119	117	112
JB79217-11	2E107479.D	115	114	117	111
JB79025-22MS	2E107406.D	120	114	115	111
JB79025-22MSD	2E107407.D	116	110	115	108
JB79025-9MS	2E107448.D	118	113	118	111
JB79025-9MSD	2E107449.D	118	113	118	111
JB79143-1MS	2E107310.D	117	110	117	108
JB79143-1MSD	2E107311.D	115	109	117	107
JB79217-7MS	2E107483.D	115	111	118	111
JB79217-7MSD	2E107484.D	115	110	117	110
V2E4803-BS	2E107301.D	113	107	116	107
V2E4803-MB	2E107300.D	113	106	115	107
V2E4806-BS	2E107401.D	117	112	118	111
V2E4806-MB	2E107400.D	115	115	115	111
V2E4806-MB2	2E107420.D	116	116	117	112
V2E4807-BS	2E107437.D	116	114	117	111
V2E4807-MB	2E107436.D	117	117	116	112
V2E4808-BS	2E107474.D	116	114	116	111
V2E4808-MB	2E107473.D	115	115	114	112

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-120%
S2 = 1,2-Dichloroethane-D4	72-123%
S3 = Toluene-D8	78-119%
S4 = 4-Bromofluorobenzene	74-119%

Initial Calibration Verification

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4773-ICV4774
Lab FileID: 2E104672A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2E104672a.D                Vial: 20
Acq On    : 30 Jul 2014   8:30 pm                    Operator: DIXITAR
Sample    : icv4774-4.3                              Inst    : Instrument #1
Misc      : MS71093,V2E4773,W,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\M2E4693.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update  : Thu Jul 31 11:38:46 2014
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	100	0.00	6.82
2	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	9.01
3		Propylene	0.472	0.557	-18.0	107	0.00	3.60
4	S	dibromofluoromethane (s)	0.308	0.303	1.6	99	0.00	9.05
5	S	1,2-dichloroethane-d4 (s)	0.303	0.300	1.0	100	0.00	9.46
6	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00	9.92
7	S	toluene-d8 (s)	0.991	0.994	-0.3	100	0.00	11.58
8	I	chlorobenzene-d5	1.000	1.000	0.0	100	0.00	13.11
9	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	15.44
10	S	4-bromofluorobenzene (s)	0.766	0.760	0.8	100	0.00	14.28

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2E104664.D M2E4693.M        Wed Oct 01 09:39:57 2014
```

Initial Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: V2E4774-ICC4774
Lab FileID: 2E106647.D

```
                         Response Factor Report  Instrument #1

Method       : C:\msdchem\1\METHODS\M2E4774.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update  : Thu Oct 02 11:44:27 2014
Response via : Initial Calibration

Calibration Files
5   =2E106644.D  2   =2E106653.D  0.5 =2E106655.D  50  =2E106647.D
100 =2E106648.D  1   =2E106654.D  200 =2E106649.D  20  =2E106646.D
10  =2E106645.D  0.2 =2E106639.D      =                =

Compound
        5     2     0.5   50    100   1     200   20    10    0.2    Avg   %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  1,4-dioxane
     0.091             0.079 0.086       0.086 0.082 0.085        0.085    5.03
3)  tertiary butyl alcohol
     1.248 1.071       0.999 1.007       0.960 0.997 1.068        1.050    9.15
4)  ethanol
     0.052 0.028       0.042 0.041 0.035 0.037 0.046 0.046        0.041   18.48
           ----- Linear regression -----  Coefficient =  0.9926
             Response Ratio = 0.00134 + 0.03931 *A


5) I   pentafluorobenzene    ----------------ISTD---------------------
6)  freon 143a
                                                                  0.000#  -1.00
7)  freon 142b
                                                                  0.000#  -1.00
8)  freon 141b
                                                                  0.000#  -1.00
9)  Propylene
     0.382 0.431 0.403 0.575 0.545 0.433       0.485 0.521        0.472   14.90
10)  chlorodifluoromethane
     0.526 0.429       0.452 0.433 0.419 0.442 0.450 0.487        0.455    7.73
11)  dichlorodifluoromethane
     0.480 0.290       0.427 0.431 0.275 0.461 0.452 0.485        0.412   20.06
           ----- Linear regression -----  Coefficient =  0.9981
             Response Ratio = -0.00329 + 0.45123 *A

12)  chloromethane
     0.582 0.416 0.570 0.518 0.511 0.480 0.527 0.526 0.547 0.671  0.535   12.53
13)  vinyl chloride
     0.591 0.409 0.469 0.516 0.503 0.468 0.528 0.527 0.557        0.508   10.56
14)  bromomethane
     0.354 0.252 0.318 0.292 0.274 0.290 0.225 0.305 0.329        0.293   13.45
15)  chloroethane
     0.262 0.187 0.258 0.230 0.221 0.234 0.207 0.240 0.251        0.232   10.56
16)  trichlorofluoromethane
     0.541 0.347 0.397 0.481 0.469 0.342 0.487 0.503 0.519        0.454   16.25
           ----- Linear regression -----  Coefficient =  0.9988
             Response Ratio = -0.00140 + 0.48427 *A

17)  Pentane
                                                                  0.000#  -1.00
18)  ethyl ether
     0.227 0.191       0.209 0.202 0.225 0.208 0.216 0.213        0.211    5.56
```

Initial Calibration Summary

Job Number: JB79217 **Sample:** V2E4774-ICC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E106647.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

```
19)  2-chloropropane
      0.738 0.629 0.860 0.633 0.602 0.770 0.626 0.616 0.656        0.681   12.97
20)  acrolein
      0.070 0.062       0.061       0.061       0.061 0.063        0.063    5.65
21)  1,1-dichloroethene
      0.617 0.474 0.582 0.535 0.515 0.544 0.541 0.531 0.558        0.544    7.39
22)  acetone
      0.040             0.039 0.037       0.034 0.037 0.037        0.037    5.38
23)  acetonitrile
      0.033 0.030       0.030 0.029 0.031 0.030 0.030 0.030        0.030    4.19
24)  allyl chloride
      0.181 0.190       0.191 0.186 0.201 0.211 0.184 0.196        0.193    5.00
25)  iodomethane
      0.687 0.555 0.668 0.603 0.583 0.635 0.615 0.607 0.609        0.618    6.59
26)  carbon disulfide
      1.424 1.176 1.560 1.212 1.164 1.400 1.205 1.219 1.267        1.292   10.63
27)  methylene chloride
      0.438 0.386       0.388 0.376 0.452 0.392 0.386 0.395        0.402    6.86
28)  methyl acetate
      0.057             0.061 0.060       0.063 0.056 0.051        0.058    7.42
29)  1-chloropropane
      0.160 0.160       0.173 0.167 0.191 0.176 0.150 0.171        0.169    7.36
30)  methyl tert butyl ether
      1.205 0.995 1.196 1.125 1.099 1.070 1.140 1.111 1.118 1.318  1.138    7.64
31)  trans-1,2-dichloroethene
      0.601 0.488 0.587 0.527 0.503 0.542 0.524 0.525 0.538        0.537    6.79
32)  di-isopropyl ether
      1.332 1.008 1.201 1.259 1.215 1.092 1.238 1.197 1.263 1.194  1.200    7.61
33)  ethyl tert-butyl ether
      1.315 1.059 1.261 1.234 1.204 1.083 1.243 1.186 1.231        1.202    6.89
34)  2-butanone
      0.023             0.040 0.040       0.042 0.036 0.026        0.034   23.15
            ----- Linear regression -----  Coefficient =  0.9997
              Response Ratio = -0.00264 + 0.04203 *A

35)  1,1-dichloroethane
      0.706 0.562 0.684 0.635 0.613 0.619 0.631 0.648 0.646        0.638    6.50
36)  chloroprene
      0.505 0.387 0.321 0.471 0.451 0.367 0.472 0.444 0.477        0.433   14.02
37)  acrylonitrile
      0.125 0.097       0.130 0.127       0.134 0.126 0.120        0.123    9.67
38)  vinyl acetate
      0.078             0.064 0.066       0.070 0.054 0.042        0.062   20.59
            ----- Linear regression -----  Coefficient =  0.9922
              Response Ratio = -0.00186 + 0.06832 *A

39)  ethyl acetate
                                                                   0.000#  -1.00
40)  2,2-dichloropropane
      0.569 0.519 0.705 0.507 0.478 0.602 0.484 0.512 0.532        0.545   13.13
41)  cis-1,2-dichloroethene
      0.438 0.375 0.391 0.394 0.380 0.387 0.395 0.384 0.395        0.393    4.64
42)  propionitrile
      0.044             0.048 0.048       0.051 0.047 0.044        0.047    5.83
43)  methyl acrylate
                                                                   0.000#  -1.00
44)  bromochloromethane
      0.200 0.163       0.191 0.187 0.161 0.195 0.192 0.185        0.184    7.78
45)  tetrahydrofuran
      0.125 0.091       0.108 0.106       0.114 0.107 0.092        0.106   11.16
```

Initial Calibration Summary

Job Number: JB79217 **Sample:** V2E4774-ICC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E106647.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

```
46)  chloroform
      0.431 0.343 0.407 0.371 0.364 0.377 0.380 0.379 0.376        0.381    6.60
47)  t-butyl formate
      0.363 0.285       0.352 0.355 0.332 0.371 0.342 0.351        0.344    7.75
48)  dibromofluoromethane (s)
      0.343 0.285 0.298 0.310 0.310 0.245 0.319 0.307 0.320        0.304    8.96
49)  1,2-dichloroethane-d4 (s)
      0.350 0.273 0.319 0.328 0.327 0.305 0.336 0.334 0.355        0.325    7.65
50)  freon 113
      0.267 0.199       0.253 0.241 0.194 0.253 0.242 0.267        0.240   11.79
51)  methacrylonitrile
      0.093             0.125 0.131       0.141 0.116 0.095        0.117   16.80
            ----- Linear regression -----  Coefficient =  0.9979
              Response Ratio = -0.00677 + 0.13844 *A

52)  1,1,1-trichloroethane
      0.570 0.441 0.502 0.509 0.494 0.512 0.517 0.508 0.523        0.509    6.58
53)  Cyclohexane
      0.678 0.524 0.621 0.575 0.548 0.679 0.555 0.591 0.621        0.599    9.20
54)  iso-butyl alcohol
      0.008             0.009 0.010       0.011 0.008 0.007        0.009#  18.46
            ----- Linear regression -----  Coefficient =  0.9941
              Response Ratio = -0.00568 + 0.01058 *A

55)  Tert Amyl Alcohol
                                                                   0.000#  -1.00
56)  2,2,4-trimethylpentane
      1.474 1.178 1.159 1.428 1.351 1.311 1.400 1.359 1.449 1.403  1.351    7.97
57)  tert-amyl methyl ether
      0.362 0.266 0.321 0.279 0.272 0.290 0.280 0.281 0.280        0.292   10.43

58) I   1,4-difluorobenzene   ----------------ISTD---------------------
59)  Di-isobutylene
                                                                   0.000#  -1.00
60)  epichlorohydrin
      0.019 0.029       0.026 0.029       0.029 0.023 0.020        0.025   16.75
            ----- Linear regression -----  Coefficient =  0.9949
              Response Ratio = -0.00269 + 0.02847 *A

61)  n-butyl alcohol
      0.008 0.008       0.007 0.008       0.008 0.008 0.007        0.008#   5.51
62)  carbon tetrachloride
      0.443 0.355 0.447 0.371 0.375 0.427 0.386 0.385 0.400        0.399    8.27
63)  1,1-dichloropropene
      0.462 0.369       0.386 0.388 0.314 0.400 0.388 0.408        0.389   10.58
64)  hexane
      0.417 0.337       0.376 0.363 0.448 0.372 0.374 0.411        0.387    9.18
65)  benzene
      1.379 1.105 1.304 1.177 1.191 1.272 1.194 1.206 1.260 1.260  1.235    6.20
66)  heptane
      0.262 0.215       0.221 0.215 0.260 0.220 0.211 0.237        0.230    8.96
67)  isopropyl acetate
      0.462             0.602 0.436       0.484 0.515 0.463        0.494   11.97
68)  1,2-dichloroethane
      0.372 0.297 0.330 0.332 0.337 0.309 0.346 0.342 0.346        0.334    6.47
69)  ethyl acrylate
                                                                   0.000#  -1.00
70)  trichloroethene
      0.339 0.268 0.335 0.288 0.289 0.296 0.298 0.295 0.295        0.300    7.58
71)  Tert-amyl ethyl ether
```

Initial Calibration Summary

Job Number: JB79217 **Sample:** V2E4774-ICC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E106647.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

```
                                                                    0.000#  -1.00
72)  2-nitropropane
      0.099             0.092 0.098       0.100 0.093 0.087        0.095    5.15
73)  2-chloroethyl vinyl ether
      0.184 0.137       0.189 0.193 0.155 0.189 0.188 0.181        0.177   11.31
74)  methyl methacrylate
      0.061             0.075 0.076       0.080 0.070 0.060        0.070   12.08
75)  1,2-dichloropropane
      0.348 0.293 0.314 0.315 0.317 0.319 0.322 0.305 0.301        0.315    4.93
76)  methylcyclohexane
      0.612 0.486 0.444 0.539 0.532 0.517 0.549 0.537 0.574        0.532    9.06
77)  dibromomethane
      0.183 0.139       0.168 0.171 0.160 0.175 0.170 0.166        0.166    7.92
78)  bromodichloromethane
      0.406 0.320 0.418 0.371 0.381 0.346 0.389 0.373 0.369        0.375    7.91
79)  cis-1,3-dichloropropene
      0.537 0.448 0.585 0.480 0.494 0.480 0.504 0.484 0.475        0.498    8.07
80)  toluene-d8 (s)
      1.155 0.911 0.970 1.025 1.048 0.754 1.050 1.024 1.052        0.999   11.31
81)  4-methyl-2-pentanone
      0.105             0.106 0.110       0.115 0.102 0.094        0.105    6.67
82)  toluene
      0.775 0.628 0.737 0.715 0.729 0.709 0.744 0.727 0.739        0.722    5.54
83)  3-methyl-1-butanol
      0.008 0.008       0.007 0.008       0.008 0.007 0.007        0.008#   6.41
84)  trans-1,3-dichloropropene
      0.455 0.373 0.537 0.422 0.434 0.406 0.441 0.419 0.421        0.434   10.34
85)  ethyl methacrylate
      0.313             0.354 0.369       0.384 0.338 0.310        0.345    8.64
86)  1,1,2-trichloroethane
      0.232 0.176       0.205 0.210 0.179 0.216 0.209 0.206        0.204    9.03
87)  2-hexanone
      0.080             0.074 0.087       0.094 0.090 0.083        0.085    8.45

88) I   chlorobenzene-d5      ----------------ISTD---------------------
89)  tetrachloroethene
      0.513 0.374 0.559 0.427 0.402 0.399 0.389 0.420 0.464        0.438   14.12
90)  1,3-dichloropropane
      0.545 0.447 0.651 0.496 0.493 0.445 0.493 0.508 0.503        0.509   12.05
91)  butyl acetate
      0.109             0.193 0.203       0.207 0.166 0.132        0.168   23.92
            ----- Linear regression -----  Coefficient =  0.9993
              Response Ratio = -0.01254 + 0.20862 *A

92)  3,3-dimethyl-1-butanol
      0.048 0.042       0.033 0.034 0.039 0.035 0.038 0.039        0.039   12.67
93)  dibromochloromethane
      0.368 0.282       0.343 0.346 0.313 0.357 0.347 0.340        0.337    8.06
94)  1,2-dibromoethane
      0.314 0.242 0.350 0.287 0.289 0.279 0.297 0.292 0.285        0.293    9.81
95)  n-butyl ether
                                                                    0.000#  -1.00
96)  chlorobenzene
      1.033 0.804       0.910 0.902 0.919 0.920 0.941 0.923        0.919    6.77
97)  1,1,1,2-tetrachloroethane
      0.389 0.315       0.353 0.349 0.344 0.354 0.362 0.360        0.353    5.84
98)  ethylbenzene
      1.753 1.318 2.033 1.552 1.527 1.503 1.543 1.591 1.603 1.540  1.596   11.71
99)  m,p-xylene
      0.707 0.537 0.764 0.611 0.597 0.622 0.599 0.628 0.621 0.543  0.623   11.00
```

Initial Calibration Summary

Job Number: JB79217 **Sample:** V2E4774-ICC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E106647.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

```
100)  o-xylene
       0.703 0.569 0.806 0.621 0.609 0.600 0.614 0.644 0.636        0.645   11.00
101)  styrene
       1.064 0.891 1.340 1.018 1.010 0.943 1.031 1.021 1.004        1.036   12.06
102)  butyl acrylate
       0.608 0.656       0.619       0.652       0.592 0.600        0.621    4.38
103)  bromoform
       0.252 0.220       0.239 0.241 0.202 0.256 0.240 0.233        0.235    7.36

104) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
105)  isopropylbenzene
       3.232 2.590 3.809 2.860 2.788 2.921 2.799 2.937 2.949 2.775  2.966   11.43
106)  4-bromofluorobenzene (s)
       0.922 0.753 1.037 0.798 0.810 0.715 0.801 0.788 0.807        0.826   11.73
107)  bromobenzene
       0.788 0.655       0.706 0.700 0.703 0.716 0.712 0.726        0.713    5.16
108)  cyclohexanone
       0.071 0.069       0.060 0.054 0.068 0.047 0.062 0.063        0.062   13.21
109)  1,1,2,2-tetrachloroethane
       0.791 0.729       0.716 0.708 0.699 0.721 0.730 0.696        0.724    4.15
110)  trans-1,4-dichloro-2-butene
       0.146             0.177 0.176       0.186 0.167 0.150        0.167    9.54
111)  1,2,3-trichloropropane
       0.214 0.183       0.187 0.185       0.188 0.189 0.187        0.190    5.46
112)  n-propylbenzene
       3.620 2.848 4.359 3.117 3.052 3.215 3.072 3.212 3.156 2.841  3.249   13.75
113)  p-Ethyltoluene
                                                                    0.000#  -1.00
114)  2-chlorotoluene
       0.767 0.610       0.674 0.663 0.676 0.665 0.687 0.701        0.680    6.46
115)  4-chlorotoluene
       2.187 1.857       1.993 1.978 2.239 2.019 2.044 2.067        2.048    5.89
116)  1,3,5-trimethylbenzene
       2.721 2.178 3.255 2.444 2.402 2.466 2.409 2.488 2.494 2.350  2.521   11.55
117)  tert-butylbenzene
       2.259 1.807 2.623 2.069 2.025 1.973 2.084 2.084 2.075 1.975  2.097   10.36
118)  pentachloroethane
       0.379 0.341       0.381 0.421 0.374 0.467 0.434 0.345        0.393   11.23
119)  1,2,4-trimethylbenzene
       2.638 2.098       2.370 2.348 2.335 2.371 2.430 2.385        2.372    6.20
120)  sec-butylbenzene
       3.590 2.832 4.128 3.164 3.119 3.206 3.110 3.225 3.253 3.055  3.268   10.91
121)  1,3-dichlorobenzene
       1.523 1.308       1.395 1.396 1.452 1.425 1.441 1.422        1.420    4.28
122)  p-isopropyltoluene
       2.968 2.350 3.514 2.667 2.639 2.550 2.636 2.735 2.768 2.318  2.714   12.51
123)  1,2,3-TRIMETHYLBENZENE
                                                                    0.000#  -1.00
124)  1,4-dichlorobenzene
       1.705 1.491       1.441 1.431 1.704 1.461 1.496 1.494        1.528    7.30
125)  p-Diethylbenzene
                                                                    0.000#  -1.00
126)  1,2-dichlorobenzene
       1.614 1.411       1.416 1.403 1.469 1.398 1.457 1.440        1.451    4.87
127)  n-butylbenzene
       1.498 1.216 1.773 1.348 1.332 1.324 1.330 1.365 1.368 1.286  1.384   11.12
128)  1,2,4,5-tetramethylbenzene
                                                                    0.000#  -1.00
129)  1,2-dibromo-3-chloropropane
       0.157 0.143       0.134 0.133       0.132 0.136 0.139        0.139    6.36
```

Initial Calibration Summary

Job Number: JB79217 **Sample:** V2E4774-ICC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E106647.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

```
130)  1,3,5-trichlorobenzene
       1.434 1.200       1.263 1.246 1.323 1.195 1.318 1.287        1.283    6.04
131)  1,2,4-trichlorobenzene
       1.271 1.158       1.123 1.099 1.288 1.069 1.168 1.122        1.162    6.79
132)  hexachlorobutadiene
       0.635 0.559       0.553 0.541 0.663 0.530 0.577 0.557        0.577    8.15
133)  naphthalene
       2.707 2.630       2.418 2.393 2.458 2.310 2.480 2.414        2.476    5.26
134)  1,2,3-trichlorobenzene
       1.160 1.046       1.000 0.989 1.111 0.954 1.043 1.015        1.040    6.47
135)  hexachloroethane
       0.551 0.458       0.516 0.521 0.491 0.528 0.521 0.505        0.511    5.43
136)  Benzyl chloride
       1.679 1.472       1.476 1.506 1.512 1.460 1.457 1.487        1.506    4.81
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2E4774.M         Thu Oct 02 11:47:42 2014
```

6.7.2

6

Initial Calibration Verification

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: V2E4774-ICV4774
Lab FileID: 2E106656.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2E106656.D Vial: 19
Acq On : 29 Sep 2014 9:07 pm Operator: DIXITAR
Sample : ICV4774-50 Inst : Instrument #1
Misc : MS74293,V2E4774,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint4.p

Method : C:\msdchem\1\METHODS\M2E4774.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update : Thu Oct 02 11:44:27 2014
Response via : Multiple Level Calibration

Min. RRF : 0.010 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	97	0.00	6.82
2	M	1,4-dioxane	0.085	0.071	16.5	88	0.00	10.65
3	M	tertiary butyl alcohol	1.050	0.987	6.0	96	0.00	6.94
		----------	True	Calc.	% Drift	----------		
4		ethanol	5000.000	4753.923	4.9	86	0.00	5.63
		----------	AvgRF	CCRF	% Dev	----------		
5	I	pentafluorobenzene	1.000	1.000	0.0	108	0.00	9.00
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9		Propylene		----------NA----------				
10	M	chlorodifluoromethane	0.455	0.416	8.6	99	-0.01	3.73
		----------	True	Calc.	% Drift	----------		
11	M	dichlorodifluoromethane	50.000	40.742	18.5	92	0.00	3.72
		----------	AvgRF	CCRF	% Dev	----------		
12	M	chloromethane	0.535	0.487	9.0	102	0.00	4.03
13	M	vinyl chloride	0.508	0.473	6.9	99	0.00	4.26
14	M	bromomethane	0.293	0.300	-2.4	111	0.00	4.82
15	M	chloroethane	0.232	0.267	-15.1	125	0.00	4.97
		----------	True	Calc.	% Drift	----------		
16	M	trichlorofluoromethane	50.000	45.270	9.5	98	0.00	5.37
		----------	AvgRF	CCRF	% Dev	----------		
17		Pentane		----------NA----------				
18	M	ethyl ether	0.211	0.204	3.3	105	0.00	5.76
19		2-chloropropane	0.681	0.597	12.3	102	0.00	5.93
20	M	acrolein	0.063	0.067	-6.3	117	0.00	5.99
21	M	1,1-dichloroethene	0.544	0.504	7.4	102	0.00	6.15
22	M	acetone	0.037	0.040	-8.1	111	0.00	6.22
23		acetonitrile	0.030	0.027	10.0	99	0.00	6.62
24	M	allyl chloride	0.193	0.209	-8.3	118	0.00	6.65
25	M	iodomethane	0.618	0.584	5.5	105	0.00	6.41
26	M	carbon disulfide	1.292	1.167	9.7	104	0.00	6.53
27	M	methylene chloride	0.402	0.372	7.5	104	0.00	6.83
28	M	methyl acetate	0.058	0.055	5.2	97	0.00	6.66
29		1-chloropropane	0.169	0.154	8.9	96	0.00	6.86

Initial Calibration Verification

Job Number: JB79217 **Sample:** V2E4774-ICV4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E106656.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

30	M	methyl tert butyl ether	1.138	1.083	4.9	104	0.00	7.15
31	M	trans-1,2-dichloroethene	0.537	0.494	8.0	101	0.00	7.19
32	M	di-isopropyl ether	1.200	1.188	1.0	102	0.00	7.73
33	M	ethyl tert-butyl ether	1.202	1.172	2.5	103	0.00	8.19
		----------	True	Calc.	% Drift		----------	
34	M	2-butanone	50.000	51.086	-2.2	108	0.00	8.48
		----------	AvgRF	CCRF	% Dev		----------	
35	M	1,1-dichloroethane	0.638	0.619	3.0	105	0.00	7.74
36	M	chloroprene	0.433	0.502	-15.9	115	0.00	7.86
37	M	acrylonitrile	0.123	0.124	-0.8	103	0.00	7.15
		----------	True	Calc.	% Drift		----------	
38	M	vinyl acetate	50.000	48.332	3.3	108	0.00	7.77
		----------	AvgRF	CCRF	% Dev		----------	
39	M	ethyl acetate		----------NA----------				
40	M	2,2-dichloropropane	0.545	0.479	12.1	102	0.00	8.46
41	M	cis-1,2-dichloroethene	0.393	0.376	4.3	103	0.00	8.48
42	M	propionitrile	0.047	0.046	2.1	104	0.00	8.54
43		methyl acrylate		----------NA----------				
44	M	bromochloromethane	0.184	0.187	-1.6	106	0.00	8.78
45	M	tetrahydrofuran	0.106	0.104	1.9	104	0.00	8.84
46	M	chloroform	0.381	0.369	3.1	107	0.00	8.84
47		t-butyl formate	0.344	0.339	1.5	104	0.00	8.87
48	S	dibromofluoromethane (s)	0.304	0.306	-0.7	107	0.00	9.04
49	S	1,2-dichloroethane-d4 (s)	0.325	0.316	2.8	104	0.00	9.45
50	M	freon 113	0.240	0.255	-6.3	109	0.00	6.13
		----------	True	Calc.	% Drift		----------	
51	M	methacrylonitrile	50.000	48.285	3.4	110	0.00	8.73
		----------	AvgRF	CCRF	% Dev		----------	
52	M	1,1,1-trichloroethane	0.509	0.492	3.3	104	0.00	9.08
53		Cyclohexane	0.599	0.533	11.0	100	0.00	9.15
		----------	True	Calc.	% Drift		----------	
54		iso-butyl alcohol	500.000	356.522	28.7#	80	0.00	9.31
		----------	AvgRF	CCRF	% Dev		----------	
55		Tert Amyl Alcohol		----------NA----------				
56		2,2,4-trimethylpentane	1.351	1.298	3.9	98	0.00	9.52
57	M	tert-amyl methyl ether	0.292	0.263	9.9	102	0.00	9.56
58	I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	9.91
59	M	Di-isobutylene		----------NA----------				
		----------	True	Calc.	% Drift		----------	
60	M	epichlorohydrin	250.000	218.017	12.8	99	0.00	11.20
		----------	AvgRF	CCRF	% Dev		----------	
61	M	n-butyl alcohol	0.008	0.006#	25.0#	92	0.00	10.07
62	M	carbon tetrachloride	0.399	0.364	8.8	104	0.00	9.28
63	M	1,1-dichloropropene	0.389	0.356	8.5	98	0.00	9.27
64	M	hexane	0.387	0.302	22.0#	85	0.00	7.49
65	M	benzene	1.235	1.164	5.7	105	0.00	9.52
66	M	heptane	0.230	0.212	7.8	101	0.00	9.71
67	M	isopropyl acetate	0.494	0.606	-22.7#	107	0.00	9.47
68	M	1,2-dichloroethane	0.334	0.333	0.3	106	0.00	9.54

Initial Calibration Verification

Job Number: JB79217 **Sample:** V2E4774-ICV4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E106656.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

69		ethyl acrylate		----------NA----------				
70	M	trichloroethene	0.300	0.282	6.0	104	0.00	10.25
71		Tert-amyl ethyl ether		----------NA----------				
72	M	2-nitropropane	0.095	0.089	6.3	103	0.00	11.05
73	M	2-chloroethyl vinyl ether	0.177	0.176	0.6	99	0.00	11.06
74	M	methyl methacrylate	0.070	0.073	-4.3	103	0.00	10.55
75	M	1,2-dichloropropane	0.315	0.313	0.6	105	0.00	10.50
76	M	methylcyclohexane	0.532	0.536	-0.8	105	0.00	10.46
77	M	dibromomethane	0.166	0.164	1.2	104	0.00	10.68
78	M	bromodichloromethane	0.375	0.372	0.8	106	0.00	10.81
79	M	cis-1,3-dichloropropene	0.498	0.463	7.0	102	0.00	11.29
80	S	toluene-d8 (s)	0.999	1.006	-0.7	104	0.00	11.57
81	M	4-methyl-2-pentanone	0.105	0.105	0.0	105	0.00	11.40
82	M	toluene	0.722	0.698	3.3	104	0.00	11.65
83	M	3-methyl-1-butanol	0.008	0.007#	12.5	96	0.00	11.43
84	M	trans-1,3-dichloropropene	0.434	0.397	8.5	100	0.00	11.86
85	M	ethyl methacrylate	0.345	0.352	-2.0	105	0.00	11.87
86	M	1,1,2-trichloroethane	0.204	0.203	0.5	105	0.00	12.07
87	M	2-hexanone	0.085	0.082	3.5	116	0.00	12.28
88	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	13.10
89	M	tetrachloroethene	0.438	0.436	0.5	107	0.00	12.25
90	M	1,3-dichloropropane	0.509	0.499	2.0	105	0.00	12.26
		----------	True	Calc.	% Drift	----------		
91	M	butyl acetate	50.000	47.560	4.9	101	0.00	12.35
		----------	AvgRF	CCRF	% Dev	----------		
92		3,3-dimethyl-1-butanol	0.039	0.032	17.9	101	0.00	12.44
93	M	dibromochloromethane	0.337	0.338	-0.3	103	0.00	12.52
94	M	1,2-dibromoethane	0.293	0.288	1.7	105	0.00	12.67
95		n-butyl ether		----------NA----------				
96	M	chlorobenzene	0.919	0.916	0.3	105	0.00	13.14
97	M	1,1,1,2-tetrachloroethane	0.353	0.353	0.0	105	0.00	13.19
98	M	ethylbenzene	1.596	1.541	3.4	104	0.00	13.19
99	M	m,p-xylene	0.623	0.611	1.9	105	0.00	13.30
100	M	o-xylene	0.645	0.613	5.0	103	0.00	13.72
101	M	styrene	1.036	1.020	1.5	105	0.00	13.73
102		butyl acrylate	0.621	0.597	3.9	101	0.00	13.57
103	M	bromoform	0.235	0.242	-3.0	106	0.00	13.99
104	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	15.43
105	M	isopropylbenzene	2.966	2.851	3.9	105	0.00	14.06
106	S	4-bromofluorobenzene (s)	0.826	0.805	2.5	106	0.00	14.27
107	M	bromobenzene	0.713	0.715	-0.3	106	0.00	14.46
108	M	cyclohexanone	0.062	0.055	11.3	96	0.00	14.22
109	M	1,1,2,2-tetrachloroethane	0.724	0.681	5.9	100	0.00	14.37
110	M	trans-1,4-dichloro-2-bute	0.167	0.173	-3.6	102	0.00	14.42
111	M	1,2,3-trichloropropane	0.190	0.186	2.1	105	0.00	14.44
112	M	n-propylbenzene	3.249	3.272	-0.7	110	0.00	14.47
113		p-Ethyltoluene		----------NA----------				
114	M	2-chlorotoluene	0.680	0.680	0.0	106	0.00	14.61
115	M	4-chlorotoluene	2.048	2.006	2.1	106	0.00	14.71
116	M	1,3,5-trimethylbenzene	2.521	2.437	3.3	105	0.00	14.63
117	M	tert-butylbenzene	2.097	2.073	1.1	105	0.00	14.97
118	M	pentachloroethane	0.393	0.382	2.8	105	0.00	15.04
119	M	1,2,4-trimethylbenzene	2.372	2.501	-5.4	111	0.00	15.02
120	M	sec-butylbenzene	3.268	3.138	4.0	104	0.00	15.19
121	M	1,3-dichlorobenzene	1.420	1.394	1.8	105	0.00	15.37
122	M	p-isopropyltoluene	2.714	2.683	1.1	106	0.00	15.31

Initial Calibration Verification

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4774-ICV4774
Lab FileID: 2E106656.D

123	m	1,2,3-TRIMETHYLBENZENE		----------NA----------				
124	M	1,4-dichlorobenzene	1.528	1.457	4.6	106	0.00	15.45
125		p-Diethylbenzene		----------NA----------				
126	M	1,2-dichlorobenzene	1.451	1.435	1.1	106	0.00	15.84
127	M	n-butylbenzene	1.384	1.358	1.9	106	0.00	15.72
128		1,2,4,5-tetramethylbenzen		----------NA----------				
129	M	1,2-dibromo-3-chloropropa	0.139	0.135	2.9	106	0.00	16.57
130		1,3,5-trichlorobenzene	1.283	1.286	-0.2	107	0.00	16.75
131	M	1,2,4-trichlorobenzene	1.162	1.160	0.2	109	0.00	17.33
132	M	hexachlorobutadiene	0.577	0.551	4.5	105	0.00	17.43
133	M	naphthalene	2.476	2.469	0.3	107	0.00	17.56
134	M	1,2,3-trichlorobenzene	1.040	1.028	1.2	108	0.00	17.78
135	M	hexachloroethane	0.511	0.512	-0.2	104	0.00	16.08
136		Benzyl chloride	1.506	1.391	7.6	99	0.00	15.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E106647.D M2E4774.M Thu Oct 02 11:46:43 2014

6.7.3

6

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: V2E4803-CC4774
Lab FileID: 2E107298.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2E\V2E4803\2e107298.d      Vial: 3
Acq On    : 17 Oct 2014   9:32 am                    Operator: DIXITAR
Sample    : cc4774-20                                Inst    : Instrument #1
Misc      : MS75473,V2E4803,5,,,,1                   Multiplr: 1.00
MS Integration Params: rteint4.p

Method       : C:\msdchem\1\METHODS\M2E4774.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update  : Wed Oct 01 09:09:50 2014
Response via : Multiple Level Calibration

Min. RRF     :   0.010  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	113	-0.01	6.81
2	M	1,4-dioxane	0.085	0.106	-24.7#	145	0.00	10.65
3	M	tertiary butyl alcohol	1.050	1.181	-12.5	134	0.01	6.95
		----------	True	Calc.	% Drift	----------		
4		ethanol	2000.000	1793.453	10.3	88	0.02	5.64
		----------	AvgRF	CCRF	% Dev	----------		
5	I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	8.99
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9		Propylene		----------NA----------				
10	M	chlorodifluoromethane	0.455	0.346	24.0#	80	0.00	3.74
		----------	True	Calc.	% Drift	----------		
11	M	dichlorodifluoromethane	20.000	18.346	8.3	94	0.00	3.72
		----------	AvgRF	CCRF	% Dev	----------		
12	M	chloromethane	0.535	0.523	2.2	104	-0.02	4.01
13	M	vinyl chloride	0.508	0.535	-5.3	106	-0.03	4.23
14	M	bromomethane	0.293	0.318	-8.5	109	-0.01	4.81
15	M	chloroethane	0.232	0.257	-10.8	112	0.00	4.97
		----------	True	Calc.	% Drift	----------		
16	M	trichlorofluoromethane	20.000	21.752	-8.8	108	0.03	5.39
		----------	AvgRF	CCRF	% Dev	----------		
17		Pentane		----------NA----------				
18	M	ethyl ether	0.211	0.222	-5.2	107	0.00	5.76
19		2-chloropropane	0.681	0.645	5.3	109	0.00	5.93
20	M	acrolein	0.063	0.070	-11.1	119	0.00	6.00
21	M	1,1-dichloroethene	0.544	0.540	0.7	106	0.00	6.14
22	M	acetone	0.037	0.036	2.7	102	0.00	6.23
23		acetonitrile	0.030	0.031	-3.3	108	0.01	6.62
24	M	allyl chloride	0.193	0.178	7.8	101	0.00	6.65
25	M	iodomethane	0.618	0.617	0.2	106	-0.01	6.40
26	M	carbon disulfide	1.292	1.246	3.6	107	0.00	6.52
27	M	methylene chloride	0.402	0.402	0.0	108	0.00	6.82
28	M	methyl acetate	0.058	0.063	-8.6	116	0.02	6.67
29		1-chloropropane	0.169	0.150	11.2	104	0.00	6.86

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4803-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107298.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

30	M	methyl tert butyl ether	1.138	1.119	1.7	105	-0.01	7.14
31	M	trans-1,2-dichloroethene	0.537	0.534	0.6	106	0.00	7.19
32	M	di-isopropyl ether	1.165	1.194	-2.5	104	0.00	7.74
33	M	ethyl tert-butyl ether	1.202	1.165	3.1	102	0.00	8.19
		----------	True	Calc.	% Drift	----------		
34	M	2-butanone	20.000	20.852	-4.3	107	0.02	8.51
		----------	AvgRF	CCRF	% Dev	----------		
35	M	1,1-dichloroethane	0.638	0.653	-2.4	105	0.00	7.74
36	M	chloroprene	0.433	0.424	2.1	100	0.00	7.86
37	M	acrylonitrile	0.123	0.136	-10.6	112	0.00	7.16
		----------	True	Calc.	% Drift	----------		
38	M	vinyl acetate	20.000	18.109	9.5	111	0.02	7.79
		----------	AvgRF	CCRF	% Dev	----------		
39	M	ethyl acetate	0.000	0.040	0.0	0#	0.02	8.51
40	M	2,2-dichloropropane	0.545	0.580	-6.4	118	0.00	8.46
41	M	cis-1,2-dichloroethene	0.393	0.401	-2.0	109	0.00	8.48
42	M	propionitrile	0.047	0.049	-4.3	109	0.02	8.55
43		methyl acrylate		----------NA----------				
44	M	bromochloromethane	0.184	0.190	-3.3	103	0.00	8.78
45	M	tetrahydrofuran	0.106	0.106	0.0	104	0.01	8.85
46	M	chloroform	0.381	0.383	-0.5	105	0.00	8.84
47		t-butyl formate	0.344	0.341	0.9	104	0.00	8.87
48	S	dibromofluoromethane (s)	0.304	0.336	-10.5	114	0.00	9.04
49	S	1,2-dichloroethane-d4 (s)	0.325	0.358	-10.2	112	-0.01	9.45
50	M	freon 113	0.240	0.266	-10.8	115	0.00	6.12
		----------	True	Calc.	% Drift	----------		
51	M	methacrylonitrile	20.000	19.937	0.3	108	0.02	8.76
		----------	AvgRF	CCRF	% Dev	----------		
52	M	1,1,1-trichloroethane	0.509	0.514	-1.0	105	0.00	9.07
53		Cyclohexane	0.599	0.622	-3.8	110	0.00	9.14
		----------	True	Calc.	% Drift	----------		
54		iso-butyl alcohol	200.000	218.739	-9.4	140	0.01	9.33
		----------	AvgRF	CCRF	% Dev	----------		
55		Tert Amyl Alcohol		----------NA----------				
56		2,2,4-trimethylpentane	1.351	1.275	5.6	98	0.00	9.52
57	M	tert-amyl methyl ether	0.292	0.270	7.5	100	-0.01	9.56
58	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	9.91
59	M	Di-isobutylene		----------NA----------				
		----------	True	Calc.	% Drift	----------		
60	M	epichlorohydrin	100.000	98.545	1.5	117	0.00	11.21
		----------	AvgRF	CCRF	% Dev	----------		
61	M	n-butyl alcohol	0.008	0.010	-25.0#	142	0.01	10.08
62	M	carbon tetrachloride	0.399	0.392	1.8	104	0.00	9.28
63	M	1,1-dichloropropene	0.389	0.410	-5.4	108	0.00	9.27
64	M	hexane	0.387	0.400	-3.4	109	0.00	7.48
65	M	benzene	1.235	1.228	0.6	104	0.00	9.52
66	M	heptane	0.230	0.213	7.4	104	0.00	9.71
67	M	isopropyl acetate	0.494	0.560	-13.4	111	0.01	9.48
68	M	1,2-dichloroethane	0.334	0.343	-2.7	103	0.00	9.54

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4803-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107298.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

69		ethyl acrylate		----------NA----------				
70	M	trichloroethene	0.300	0.293	2.3	102	0.00	10.25
71		Tert-amyl ethyl ether		----------NA----------				
72	M	2-nitropropane	0.095	0.091	4.2	101	0.01	11.07
73	M	2-chloroethyl vinyl ether	0.177	0.183	-3.4	100	0.00	11.07
74	M	methyl methacrylate	0.070	0.071	-1.4	104	0.02	10.57
75	M	1,2-dichloropropane	0.315	0.319	-1.3	107	0.00	10.51
76	M	methylcyclohexane	0.532	0.513	3.6	98	0.00	10.45
77	M	dibromomethane	0.166	0.172	-3.6	103	0.00	10.68
78	M	bromodichloromethane	0.375	0.359	4.3	99	0.00	10.81
79	M	cis-1,3-dichloropropene	0.498	0.499	-0.2	105	0.00	11.29
80	S	toluene-d8 (s)	0.999	1.136	-13.7	114	0.00	11.57
81	M	4-methyl-2-pentanone	0.105	0.107	-1.9	108	0.01	11.40
82	M	toluene	0.722	0.722	0.0	102	0.00	11.65
83	M	3-methyl-1-butanol	0.008	0.010#	-25.0#	137	0.00	11.44
84	M	trans-1,3-dichloropropene	0.434	0.430	0.9	105	0.00	11.87
85	M	ethyl methacrylate	0.345	0.330	4.3	100	0.01	11.88
86	M	1,1,2-trichloroethane	0.204	0.206	-1.0	101	0.00	12.07
87	M	2-hexanone	0.085	0.097	-14.1	110	0.02	12.30
88	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	13.10
89	M	tetrachloroethene	0.438	0.369	15.8	89	0.00	12.25
90	M	1,3-dichloropropane	0.509	0.518	-1.8	103	0.00	12.26
		----------	True	Calc.	% Drift	----------		
91	M	butyl acetate	20.000	22.768	-13.8	126	0.01	12.36
		----------	AvgRF	CCRF	% Dev	----------		
92		3,3-dimethyl-1-butanol	0.039	0.046	-17.9	123	0.00	12.44
93	M	dibromochloromethane	0.337	0.338	-0.3	99	0.00	12.52
94	M	1,2-dibromoethane	0.293	0.291	0.7	101	0.00	12.67
95		n-butyl ether		----------NA----------				
96	M	chlorobenzene	0.919	0.936	-1.8	101	0.00	13.14
97	M	1,1,1,2-tetrachloroethane	0.353	0.353	0.0	99	0.00	13.19
98	M	ethylbenzene	1.596	1.591	0.3	101	0.00	13.19
99	M	m,p-xylene	0.623	0.627	-0.6	101	0.00	13.30
100	M	o-xylene	0.645	0.625	3.1	98	0.00	13.72
101	M	styrene	1.036	0.964	6.9	96	0.00	13.74
102		butyl acrylate		----------NA----------				
103	M	bromoform	0.235	0.221	6.0	93	0.00	13.99
104	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	15.43
105	M	isopropylbenzene	2.966	3.043	-2.6	98	0.00	14.06
106	S	4-bromofluorobenzene (s)	0.826	0.895	-8.4	108	0.00	14.27
107	M	bromobenzene	0.713	0.753	-5.6	100	0.00	14.46
108	M	cyclohexanone	0.062	0.074	-19.4	114	0.00	14.22
109	M	1,1,2,2-tetrachloroethane	0.724	0.774	-6.9	101	0.00	14.37
110	M	trans-1,4-dichloro-2-bute	0.167	0.153	8.4	87	0.00	14.42
111	M	1,2,3-trichloropropane	0.190	0.198	-4.2	100	0.00	14.44
112	M	n-propylbenzene	3.249	3.381	-4.1	100	0.00	14.47
113		p-Ethyltoluene		----------NA----------				
114	M	2-chlorotoluene	0.680	0.725	-6.6	100	0.00	14.61
115	M	4-chlorotoluene	2.048	2.131	-4.1	99	0.00	14.72
116	M	1,3,5-trimethylbenzene	2.521	2.548	-1.1	97	0.00	14.63
117	M	tert-butylbenzene	2.097	2.174	-3.7	99	0.00	14.97
118	M	pentachloroethane	0.393	0.497	-26.5#	109	0.00	15.04
119	M	1,2,4-trimethylbenzene	2.372	2.490	-5.0	97	0.00	15.02
120	M	sec-butylbenzene	3.268	3.331	-1.9	98	0.00	15.18
121	M	1,3-dichlorobenzene	1.420	1.432	-0.8	94	0.00	15.38
122	M	p-isopropyltoluene	2.714	2.776	-2.3	96	0.00	15.31

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4803-CC4774
Lab FileID: 2E107298.D

123	m	1,2,3-TRIMETHYLBENZENE		----------NA----------				
124	M	1,4-dichlorobenzene	1.528	1.514	0.9	96	0.00	15.45
125		p-Diethylbenzene		----------NA----------				
126	M	1,2-dichlorobenzene	1.451	1.435	1.1	94	0.00	15.84
127	M	n-butylbenzene	1.384	1.384	0.0	96	0.00	15.72
128		1,2,4,5-tetramethylbenzen		----------NA----------				
129	M	1,2-dibromo-3-chloropropa	0.139	0.133	4.3	93	0.00	16.57
130		1,3,5-trichlorobenzene	1.283	1.311	-2.2	95	0.00	16.75
131	M	1,2,4-trichlorobenzene	1.162	1.182	-1.7	96	0.00	17.33
132	M	hexachlorobutadiene	0.577	0.543	5.9	89	0.00	17.43
133	M	naphthalene	2.476	2.559	-3.4	98	0.00	17.56
134	M	1,2,3-trichlorobenzene	1.040	1.041	-0.1	95	0.00	17.78
135	M	hexachloroethane	0.511	0.503	1.6	92	0.00	16.08
136		Benzyl chloride	1.506	1.809	-20.1#	118	0.00	15.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E106646.D M2E4774.M Fri Oct 17 16:57:29 2014 ACCNJ

6.7.4

6

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: V2E4806-CC4774
Lab FileID: 2E107398.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2E\v2e4806-07\2E107398.D   Vial: 6
Acq On    : 20 Oct 2014  12:56 pm                        Operator: DIXITAR
Sample    : cc4774-20                                    Inst    : Instrument #1
Misc      : MS75578,V2E4806,5,,,,1                       Multiplr: 1.00
MS Integration Params: rteint4.p

Method       : C:\msdchem\1\METHODS\M2E4774.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update  : Wed Oct 01 09:09:50 2014
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	108	-0.01	6.81
2	M	1,4-dioxane	0.085	0.096	-12.9	126	0.00	10.65
3	M	tertiary butyl alcohol	1.050	1.057	-0.7	114	0.00	6.94
		----------	True	Calc.	% Drift	----------		
4		ethanol	2000.000	1658.655	17.1	77	0.01	5.64
		----------	AvgRF	CCRF	% Dev	----------		
5	I	pentafluorobenzene	1.000	1.000	0.0	103	0.00	8.99
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9		Propylene		----------NA----------				
10	M	chlorodifluoromethane	0.455	0.428	5.9	98	0.00	3.74
		----------	True	Calc.	% Drift	----------		
11	M	dichlorodifluoromethane	20.000	24.462	-22.3#	123	0.00	3.72
		----------	AvgRF	CCRF	% Dev	----------		
12	M	chloromethane	0.535	0.590	-10.3	115	-0.02	4.01
13	M	vinyl chloride	0.508	0.601	-18.3	117	-0.03	4.24
14	M	bromomethane	0.293	0.347	-18.4	117	-0.01	4.81
15	M	chloroethane	0.232	0.271	-16.8	116	0.00	4.97
		----------	True	Calc.	% Drift	----------		
16	M	trichlorofluoromethane	20.000	24.121	-20.6#	118	0.03	5.39
		----------	AvgRF	CCRF	% Dev	----------		
17		Pentane		----------NA----------				
18	M	ethyl ether	0.211	0.250	-18.5	119	0.00	5.75
19		2-chloropropane	0.681	0.738	-8.4	123	0.00	5.93
20	M	acrolein	0.063	0.036	42.9#	60	0.01	6.01
21	M	1,1-dichloroethene	0.544	0.615	-13.1	119	0.00	6.14
22	M	acetone	0.037	0.053	-43.2#	147	0.01	6.23
23		acetonitrile	0.030	0.030	0.0	104	0.02	6.63
24	M	allyl chloride	0.193	0.197	-2.1	110	0.00	6.64
25	M	iodomethane	0.618	0.675	-9.2	114	-0.01	6.40
26	M	carbon disulfide	1.292	1.401	-8.4	118	-0.01	6.52
27	M	methylene chloride	0.402	0.449	-11.7	119	0.00	6.82
28	M	methyl acetate	0.058	0.066	-13.8	120	0.03	6.68
29		1-chloropropane	0.169	0.170	-0.6	116	0.00	6.86

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4806-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107398.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

30	M	methyl tert butyl ether	1.138	1.224	-7.6	113	-0.02	7.14
31	M	trans-1,2-dichloroethene	0.537	0.599	-11.5	117	0.00	7.19
32	M	di-isopropyl ether	1.165	1.352	-16.1	116	0.00	7.73
33	M	ethyl tert-butyl ether	1.202	1.270	-5.7	110	0.00	8.19
		----------	True	Calc.	% Drift	----------		
34	M	2-butanone	20.000	24.465	-22.3#	127	0.02	8.51
		----------	AvgRF	CCRF	% Dev	----------		
35	M	1,1-dichloroethane	0.638	0.743	-16.5	117	0.00	7.74
36	M	chloroprene	0.433	0.494	-14.1	114	0.00	7.86
37	M	acrylonitrile	0.123	0.148	-20.3#	121	0.01	7.16
		----------	True	Calc.	% Drift	----------		
38	M	vinyl acetate	20.000	17.526	12.4	106	0.03	7.80
		----------	AvgRF	CCRF	% Dev	----------		
39	M	ethyl acetate		----------NA----------				
40	M	2,2-dichloropropane	0.545	0.638	-17.1	128	0.00	8.46
41	M	cis-1,2-dichloroethene	0.393	0.450	-14.5	120	0.00	8.48
42	M	propionitrile	0.047	0.054	-14.9	118	0.02	8.55
43		methyl acrylate		----------NA----------				
44	M	bromochloromethane	0.184	0.211	-14.7	113	0.00	8.77
45	M	tetrahydrofuran	0.106	0.117	-10.4	113	0.01	8.85
46	M	chloroform	0.381	0.423	-11.0	114	0.00	8.83
47		t-butyl formate	0.344	0.321	6.7	96	0.00	8.87
48	S	dibromofluoromethane (s)	0.304	0.354	-16.4	118	0.00	9.03
49	S	1,2-dichloroethane-d4 (s)	0.325	0.360	-10.8	111	-0.01	9.45
50	M	freon 113	0.240	0.312	-30.0#	132	-0.01	6.12
		----------	True	Calc.	% Drift	----------		
51	M	methacrylonitrile	20.000	21.661	-8.3	117	0.03	8.76
		----------	AvgRF	CCRF	% Dev	----------		
52	M	1,1,1-trichloroethane	0.509	0.574	-12.8	116	0.00	9.07
53		Cyclohexane	0.599	0.716	-19.5	124	0.00	9.14
		----------	True	Calc.	% Drift	----------		
54		iso-butyl alcohol	200.000	197.701	1.1	123	0.00	9.32
		----------	AvgRF	CCRF	% Dev	----------		
55		Tert Amyl Alcohol		----------NA----------				
56		2,2,4-trimethylpentane	1.351	1.511	-11.8	114	0.00	9.52
57	M	tert-amyl methyl ether	0.292	0.283	3.1	103	-0.01	9.56
58	I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.00	9.91
59	M	Di-isobutylene		----------NA----------				
		----------	True	Calc.	% Drift	----------		
60	M	epichlorohydrin	100.000	95.793	4.2	115	0.00	11.21
		----------	AvgRF	CCRF	% Dev	----------		
61	M	n-butyl alcohol	0.008	0.009#	-12.5	123	0.02	10.09
62	M	carbon tetrachloride	0.399	0.426	-6.8	115	0.00	9.28
63	M	1,1-dichloropropene	0.389	0.448	-15.2	120	0.00	9.26
64	M	hexane	0.387	0.462	-19.4	128	0.00	7.48
65	M	benzene	1.235	1.320	-6.9	113	0.00	9.52
66	M	heptane	0.230	0.246	-7.0	121	0.00	9.71
67	M	isopropyl acetate	0.494	0.599	-21.3#	120	0.00	9.48
68	M	1,2-dichloroethane	0.334	0.368	-10.2	111	0.00	9.54

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4806-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107398.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

69		ethyl acrylate		----------NA----------				
70	M	trichloroethene	0.300	0.315	-5.0	111	0.00	10.25
71		Tert-amyl ethyl ether		----------NA----------				
72	M	2-nitropropane	0.095	0.091	4.2	102	0.01	11.07
73	M	2-chloroethyl vinyl ether	0.177	0.191	-7.9	105	0.00	11.07
74	M	methyl methacrylate	0.070	0.073	-4.3	108	0.01	10.57
75	M	1,2-dichloropropane	0.315	0.354	-12.4	120	0.00	10.50
76	M	methylcyclohexane	0.532	0.573	-7.7	110	0.00	10.45
77	M	dibromomethane	0.166	0.183	-10.2	111	0.00	10.68
78	M	bromodichloromethane	0.375	0.397	-5.9	110	0.00	10.81
79	M	cis-1,3-dichloropropene	0.498	0.521	-4.6	112	0.00	11.29
80	S	toluene-d8 (s)	0.999	1.153	-15.4	117	0.00	11.57
81	M	4-methyl-2-pentanone	0.105	0.119	-13.3	121	0.00	11.40
82	M	toluene	0.722	0.784	-8.6	112	0.00	11.65
83	M	3-methyl-1-butanol	0.008	0.008#	0.0	123	0.00	11.44
84	M	trans-1,3-dichloropropene	0.434	0.455	-4.8	112	0.00	11.86
85	M	ethyl methacrylate	0.345	0.361	-4.6	111	0.00	11.87
86	M	1,1,2-trichloroethane	0.204	0.224	-9.8	111	0.00	12.07
87	M	2-hexanone	0.085	0.109	-28.2#	126	0.02	12.30
88	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.10
89	M	tetrachloroethene	0.438	0.401	8.4	98	0.00	12.24
90	M	1,3-dichloropropane	0.509	0.564	-10.8	114	0.00	12.26
		----------	True	Calc.	% Drift	----------		
91	M	butyl acetate	20.000	20.938	-4.7	116	0.01	12.36
		----------	AvgRF	CCRF	% Dev	----------		
92		3,3-dimethyl-1-butanol	0.039	0.044	-12.8	118	0.00	12.44
93	M	dibromochloromethane	0.337	0.366	-8.6	109	0.00	12.52
94	M	1,2-dibromoethane	0.293	0.314	-7.2	111	0.00	12.67
95		n-butyl ether		----------NA----------				
96	M	chlorobenzene	0.919	1.016	-10.6	111	0.00	13.14
97	M	1,1,1,2-tetrachloroethane	0.353	0.380	-7.6	108	0.00	13.19
98	M	ethylbenzene	1.596	1.723	-8.0	111	0.00	13.19
99	M	m,p-xylene	0.623	0.678	-8.8	111	0.00	13.30
100	M	o-xylene	0.645	0.685	-6.2	109	0.00	13.72
101	M	styrene	1.036	1.062	-2.5	107	0.00	13.74
102		butyl acrylate		----------NA----------				
103	M	bromoform	0.235	0.244	-3.8	104	0.00	13.99
104	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	15.42
105	M	isopropylbenzene	2.966	3.348	-12.9	110	0.00	14.06
106	S	4-bromofluorobenzene (s)	0.826	0.903	-9.3	111	0.00	14.26
107	M	bromobenzene	0.713	0.813	-14.0	111	0.00	14.46
108	M	cyclohexanone	0.062	0.115	-85.5#	180	0.00	14.22
109	M	1,1,2,2-tetrachloroethane	0.724	0.853	-17.8	113	0.00	14.37
110	M	trans-1,4-dichloro-2-bute	0.167	0.191	-14.4	111	0.00	14.42
111	M	1,2,3-trichloropropane	0.190	0.216	-13.7	110	0.00	14.44
112	M	n-propylbenzene	3.249	3.709	-14.2	112	0.00	14.47
113		p-Ethyltoluene		----------NA----------				
114	M	2-chlorotoluene	0.680	0.792	-16.5	112	0.00	14.61
115	M	4-chlorotoluene	2.048	2.316	-13.1	110	0.00	14.71
116	M	1,3,5-trimethylbenzene	2.521	2.802	-11.1	109	0.00	14.63
117	M	tert-butylbenzene	2.097	2.351	-12.1	109	0.00	14.97
118	M	pentachloroethane	0.393	0.521	-32.6#	116	0.00	15.04
119	M	1,2,4-trimethylbenzene	2.372	2.728	-15.0	109	0.00	15.02
120	M	sec-butylbenzene	3.268	3.698	-13.2	111	0.00	15.18
121	M	1,3-dichlorobenzene	1.420	1.560	-9.9	105	0.00	15.37
122	M	p-isopropyltoluene	2.714	3.057	-12.6	108	0.00	15.31

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4806-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107398.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

123	m	1,2,3-TRIMETHYLBENZENE		----------NA----------				
124	M	1,4-dichlorobenzene	1.528	1.645	-7.7	107	0.00	15.45
125		p-Diethylbenzene		----------NA----------				
126	M	1,2-dichlorobenzene	1.451	1.571	-8.3	104	0.00	15.84
127	M	n-butylbenzene	1.384	1.570	-13.4	111	0.00	15.72
128		1,2,4,5-tetramethylbenzen		----------NA----------				
129	M	1,2-dibromo-3-chloropropa	0.139	0.145	-4.3	104	0.00	16.57
130		1,3,5-trichlorobenzene	1.283	1.430	-11.5	105	0.00	16.75
131	M	1,2,4-trichlorobenzene	1.162	1.271	-9.4	105	0.00	17.32
132	M	hexachlorobutadiene	0.577	0.615	-6.6	103	0.00	17.42
133	M	naphthalene	2.476	2.787	-12.6	109	0.00	17.56
134	M	1,2,3-trichlorobenzene	1.040	1.120	-7.7	104	0.00	17.78
135	M	hexachloroethane	0.511	0.558	-9.2	104	0.00	16.08
136		Benzyl chloride	1.506	1.592	-5.7	106	0.00	15.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E106646.D M2E4774.M Wed Oct 22 14:34:21 2014 ACCNJ

6.7.5

6

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4806-CC4774
Lab FileID: 2E107418.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2E\v2e4806-07\2E107418.D   Vial: 23
Acq On    : 21 Oct 2014  12:23 am                        Operator: DIXITAR
Sample    : cc4774-50                                    Inst    : Instrument #1
Misc      : MS75404,V2E4806,5,,,,1                       Multiplr: 1.00
MS Integration Params: rteint4.p

Method       : C:\msdchem\1\METHODS\M2E4774.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update  : Wed Oct 01 09:09:50 2014
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	115	-0.01	6.81
2	M	1,4-dioxane	0.085	0.089	-4.7	130	0.00	10.64
3	M	tertiary butyl alcohol	1.050	1.030	1.9	119	-0.02	6.92
		----------	True	Calc.	% Drift	----------		
4		ethanol	5000.000	4002.099	20.0	86	0.00	5.63
		----------	AvgRF	CCRF	% Dev	----------		
5	I	pentafluorobenzene	1.000	1.000	0.0	108	0.00	8.99
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9		Propylene		----------NA----------				
10	M	chlorodifluoromethane	0.455	0.401	11.9	96	-0.01	3.73
		----------	True	Calc.	% Drift	----------		
11	M	dichlorodifluoromethane	50.000	56.509	-13.0	128	0.00	3.72
		----------	AvgRF	CCRF	% Dev	----------		
12	M	chloromethane	0.535	0.601	-12.3	126	-0.02	4.02
13	M	vinyl chloride	0.508	0.603	-18.7	126	-0.03	4.24
14	M	bromomethane	0.293	0.350	-19.5	130	-0.01	4.81
15	M	chloroethane	0.232	0.281	-21.1#	132	-0.01	4.96
		----------	True	Calc.	% Drift	----------		
16	M	trichlorofluoromethane	50.000	59.396	-18.8	129	0.03	5.39
		----------	AvgRF	CCRF	% Dev	----------		
17		Pentane		----------NA----------				
18	M	ethyl ether	0.211	0.227	-7.6	118	0.00	5.75
19		2-chloropropane	0.681	0.677	0.6	116	-0.01	5.92
20	M	acrolein	0.063	0.068	-7.9	121	-0.01	5.98
21	M	1,1-dichloroethene	0.544	0.560	-2.9	113	-0.01	6.14
22	M	acetone	0.037	0.035	5.4	96	-0.01	6.21
23		acetonitrile	0.030	0.032	-6.7	116	0.00	6.61
24	M	allyl chloride	0.193	0.184	4.7	104	-0.01	6.64
25	M	iodomethane	0.618	0.618	0.0	111	-0.01	6.40
26	M	carbon disulfide	1.292	1.256	2.8	112	-0.01	6.52
27	M	methylene chloride	0.402	0.409	-1.7	114	0.00	6.82
28	M	methyl acetate	0.058	0.069	-19.0	122	0.00	6.65
29		1-chloropropane	0.169	0.178	-5.3	111	-0.01	6.85

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4806-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107418.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

30	M	methyl tert butyl ether	1.138	1.145	-0.6	110	-0.02	7.14
31	M	trans-1,2-dichloroethene	0.537	0.557	-3.7	114	-0.02	7.18
32	M	di-isopropyl ether	1.165	1.354	-16.2	116	-0.01	7.73
33	M	ethyl tert-butyl ether	1.202	1.272	-5.8	112	-0.01	8.18
		----------	True	Calc.	% Drift	----------		
34	M	2-butanone	50.000	51.749	-3.5	110	-0.01	8.48
		----------	AvgRF	CCRF	% Dev	----------		
35	M	1,1-dichloroethane	0.638	0.693	-8.6	118	-0.01	7.74
36	M	chloroprene	0.433	0.484	-11.8	111	-0.01	7.85
37	M	acrylonitrile	0.123	0.144	-17.1	120	-0.01	7.14
		----------	True	Calc.	% Drift	----------		
38	M	vinyl acetate	50.000	46.718	6.6	104	-0.01	7.76
		----------	AvgRF	CCRF	% Dev	----------		
39	M	ethyl acetate		----------NA----------				
40	M	2,2-dichloropropane	0.545	0.516	5.3	110	0.00	8.46
41	M	cis-1,2-dichloroethene	0.393	0.412	-4.8	113	0.00	8.47
42	M	propionitrile	0.047	0.053	-12.8	119	0.00	8.53
43		methyl acrylate		----------NA----------				
44	M	bromochloromethane	0.184	0.196	-6.5	111	-0.01	8.77
45	M	tetrahydrofuran	0.106	0.117	-10.4	118	0.00	8.83
46	M	chloroform	0.381	0.396	-3.9	115	-0.01	8.83
47		t-butyl formate	0.344	0.319	7.3	98	-0.01	8.86
48	S	dibromofluoromethane (s)	0.304	0.354	-16.4	123	0.00	9.03
49	S	1,2-dichloroethane-d4 (s)	0.325	0.368	-13.2	121	-0.01	9.45
50	M	freon 113	0.240	0.287	-19.6	122	-0.01	6.12
		----------	True	Calc.	% Drift	----------		
51	M	methacrylonitrile	50.000	50.461	-0.9	115	0.00	8.73
		----------	AvgRF	CCRF	% Dev	----------		
52	M	1,1,1-trichloroethane	0.509	0.528	-3.7	112	0.00	9.07
53		Cyclohexane	0.599	0.618	-3.2	116	0.00	9.14
		----------	True	Calc.	% Drift	----------		
54		iso-butyl alcohol	500.000	490.221	2.0	113	-0.01	9.31
		----------	AvgRF	CCRF	% Dev	----------		
55		Tert Amyl Alcohol		----------NA----------				
56		2,2,4-trimethylpentane	1.351	1.374	-1.7	104	0.00	9.52
57	M	tert-amyl methyl ether	0.292	0.280	4.1	109	-0.01	9.56
58	I	1,4-difluorobenzene	1.000	1.000	0.0	108	-0.01	9.90
59	M	Di-isobutylene		----------NA----------				
		----------	True	Calc.	% Drift	----------		
60	M	epichlorohydrin	250.000	237.773	4.9	110	-0.01	11.19
		----------	AvgRF	CCRF	% Dev	----------		
61	M	n-butyl alcohol	0.008	0.008#	0.0	125	-0.01	10.06
62	M	carbon tetrachloride	0.399	0.386	3.3	112	0.00	9.28
63	M	1,1-dichloropropene	0.389	0.404	-3.9	113	0.00	9.26
64	M	hexane	0.387	0.398	-2.8	115	-0.01	7.48
65	M	benzene	1.235	1.231	0.3	113	-0.01	9.51
66	M	heptane	0.230	0.211	8.3	103	0.00	9.70
67	M	isopropyl acetate	0.494	0.671	-35.8#	121	0.00	9.47
68	M	1,2-dichloroethane	0.334	0.354	-6.0	115	-0.01	9.53

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4806-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107418.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

69		ethyl acrylate		----------NA----------				
70	M	trichloroethene	0.300	0.294	2.0	110	-0.01	10.24
71		Tert-amyl ethyl ether		----------NA----------				
72	M	2-nitropropane	0.095	0.092	3.2	108	0.00	11.05
73	M	2-chloroethyl vinyl ether	0.177	0.192	-8.5	110	-0.01	11.05
74	M	methyl methacrylate	0.070	0.071	-1.4	103	-0.01	10.55
75	M	1,2-dichloropropane	0.315	0.336	-6.7	115	-0.01	10.50
76	M	methylcyclohexane	0.532	0.519	2.4	104	0.00	10.45
77	M	dibromomethane	0.166	0.175	-5.4	113	0.00	10.67
78	M	bromodichloromethane	0.375	0.376	-0.3	109	-0.01	10.80
79	M	cis-1,3-dichloropropene	0.498	0.497	0.2	112	0.00	11.28
80	S	toluene-d8 (s)	0.999	1.162	-16.3	123	0.00	11.57
81	M	4-methyl-2-pentanone	0.105	0.111	-5.7	113	0.00	11.39
82	M	toluene	0.722	0.728	-0.8	110	0.00	11.64
83	M	3-methyl-1-butanol	0.008	0.008#	0.0	121	0.00	11.43
84	M	trans-1,3-dichloropropene	0.434	0.434	0.0	111	0.00	11.86
85	M	ethyl methacrylate	0.345	0.358	-3.8	109	0.00	11.87
86	M	1,1,2-trichloroethane	0.204	0.211	-3.4	111	-0.01	12.06
87	M	2-hexanone	0.085	0.078	8.2	113	0.00	12.27
88	I	chlorobenzene-d5	1.000	1.000	0.0	107	0.00	13.10
89	M	tetrachloroethene	0.438	0.468	-6.8	117	0.00	12.24
90	M	1,3-dichloropropane	0.509	0.539	-5.9	116	-0.01	12.25
		----------	True	Calc.	% Drift	----------		
91	M	butyl acetate	50.000	53.156	-6.3	116	0.00	12.34
		----------	AvgRF	CCRF	% Dev	----------		
92		3,3-dimethyl-1-butanol	0.039	0.038	2.6	122	0.00	12.43
93	M	dibromochloromethane	0.337	0.345	-2.4	108	0.00	12.51
94	M	1,2-dibromoethane	0.293	0.297	-1.4	111	0.00	12.66
95		n-butyl ether		----------NA----------				
96	M	chlorobenzene	0.919	0.932	-1.4	110	0.00	13.13
97	M	1,1,1,2-tetrachloroethane	0.353	0.357	-1.1	108	0.00	13.19
98	M	ethylbenzene	1.596	1.598	-0.1	110	0.00	13.19
99	M	m,p-xylene	0.623	0.618	0.8	108	0.00	13.30
100	M	o-xylene	0.645	0.633	1.9	109	0.00	13.72
101	M	styrene	1.036	0.994	4.1	104	0.00	13.73
102		butyl acrylate		----------NA----------				
103	M	bromoform	0.235	0.229	2.6	103	0.00	13.99
104	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	15.42
105	M	isopropylbenzene	2.966	3.039	-2.5	108	0.00	14.06
106	S	4-bromofluorobenzene (s)	0.826	0.908	-9.9	115	0.00	14.26
107	M	bromobenzene	0.713	0.739	-3.6	106	0.00	14.45
108	M	cyclohexanone	0.062	0.038	38.7#	65	0.00	14.22
109	M	1,1,2,2-tetrachloroethane	0.724	0.774	-6.9	110	0.00	14.37
110	M	trans-1,4-dichloro-2-bute	0.167	0.174	-4.2	100	0.00	14.42
111	M	1,2,3-trichloropropane	0.190	0.201	-5.8	109	0.00	14.44
112	M	n-propylbenzene	3.249	3.361	-3.4	109	0.00	14.47
113		p-Ethyltoluene		----------NA----------				
114	M	2-chlorotoluene	0.680	0.719	-5.7	108	0.00	14.61
115	M	4-chlorotoluene	2.048	2.115	-3.3	108	0.00	14.71
116	M	1,3,5-trimethylbenzene	2.521	2.550	-1.2	106	0.00	14.63
117	M	tert-butylbenzene	2.097	2.174	-3.7	106	0.00	14.97
118	M	pentachloroethane	0.393	0.315	19.8	84	0.00	15.04
119	M	1,2,4-trimethylbenzene	2.372	2.476	-4.4	106	0.00	15.02
120	M	sec-butylbenzene	3.268	3.321	-1.6	106	0.00	15.18
121	M	1,3-dichlorobenzene	1.420	1.419	0.1	103	0.00	15.36
122	M	p-isopropyltoluene	2.714	2.767	-2.0	105	0.00	15.30

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4806-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107418.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

123	m	1,2,3-TRIMETHYLBENZENE		----------NA----------				
124	M	1,4-dichlorobenzene	1.528	1.446	5.4	102	0.00	15.45
125		p-Diethylbenzene		----------NA----------				
126	M	1,2-dichlorobenzene	1.451	1.412	2.7	101	0.00	15.83
127	M	n-butylbenzene	1.384	1.384	0.0	104	0.00	15.72
128		1,2,4,5-tetramethylbenzen		----------NA----------				
129	M	1,2-dibromo-3-chloropropa	0.139	0.138	0.7	104	0.00	16.57
130		1,3,5-trichlorobenzene	1.283	1.256	2.1	101	0.00	16.75
131	M	1,2,4-trichlorobenzene	1.162	1.114	4.1	101	0.00	17.32
132	M	hexachlorobutadiene	0.577	0.499	13.5	91	0.00	17.42
133	M	naphthalene	2.476	2.459	0.7	103	0.00	17.56
134	M	1,2,3-trichlorobenzene	1.040	0.967	7.0	98	0.00	17.78
135	M	hexachloroethane	0.511	0.533	-4.3	105	0.00	16.08
136		Benzyl chloride	1.506	1.275	15.3	88	0.00	15.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E106647.D M2E4774.M Wed Oct 22 15:08:38 2014 ACCNJ

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4807-CC4774
Lab FileID: 2E107435.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2E\v2e4806-07\2E107435.D   Vial: 4
Acq On    : 21 Oct 2014  10:43 am                        Operator: DIXITAR
Sample    : cc4774-20                                    Inst    : Instrument #1
Misc      : MS75578,V2E4807,5,,,,1                       Multiplr: 1.00
MS Integration Params: rteint4.p

Method       : C:\msdchem\1\METHODS\M2E4774.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update  : Wed Oct 01 09:09:50 2014
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	105	-0.02	6.81
2	M	1,4-dioxane	0.085	0.097	-14.1	124	0.00	10.65
3	M	tertiary butyl alcohol	1.050	1.111	-5.8	117	0.00	6.94
		----------	True	Calc.	% Drift	----------		
4		ethanol	2000.000	1991.556	0.4	90	0.00	5.63
		----------	AvgRF	CCRF	% Dev	----------		
5	I	pentafluorobenzene	1.000	1.000	0.0	95	0.00	8.99
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9		Propylene		----------NA----------				
10	M	chlorodifluoromethane	0.455	0.398	12.5	84	-0.02	3.73
		----------	True	Calc.	% Drift	----------		
11	M	dichlorodifluoromethane	20.000	23.949	-19.7	112	0.00	3.71
		----------	AvgRF	CCRF	% Dev	----------		
12	M	chloromethane	0.535	0.592	-10.7	107	-0.03	4.01
13	M	vinyl chloride	0.508	0.606	-19.3	110	-0.04	4.23
14	M	bromomethane	0.293	0.347	-18.4	109	-0.02	4.80
15	M	chloroethane	0.232	0.275	-18.5	109	-0.01	4.96
		----------	True	Calc.	% Drift	----------		
16	M	trichlorofluoromethane	20.000	24.271	-21.4#	111	0.02	5.38
		----------	AvgRF	CCRF	% Dev	----------		
17		Pentane		----------NA----------				
18	M	ethyl ether	0.211	0.240	-13.7	106	0.00	5.76
19		2-chloropropane	0.681	0.716	-5.1	111	-0.01	5.92
20	M	acrolein	0.063	0.076	-20.6#	119	0.00	5.99
21	M	1,1-dichloroethene	0.544	0.589	-8.3	106	-0.01	6.14
22	M	acetone	0.037	0.043	-16.2	110	0.00	6.23
23		acetonitrile	0.030	0.033	-10.0	107	0.00	6.62
24	M	allyl chloride	0.193	0.194	-0.5	100	0.00	6.64
25	M	iodomethane	0.618	0.648	-4.9	102	-0.01	6.40
26	M	carbon disulfide	1.292	1.363	-5.5	107	-0.01	6.52
27	M	methylene chloride	0.402	0.432	-7.5	106	0.00	6.82
28	M	methyl acetate	0.058	0.066	-13.8	112	0.02	6.67
29		1-chloropropane	0.169	0.181	-7.1	115	0.00	6.86

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4807-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107435.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

30	M	methyl tert butyl ether	1.138	1.201	-5.5	103	-0.01	7.14
31	M	trans-1,2-dichloroethene	0.537	0.588	-9.5	107	0.00	7.19
32	M	di-isopropyl ether	1.165	1.301	-11.7	104	0.00	7.73
33	M	ethyl tert-butyl ether	1.202	1.232	-2.5	99	0.00	8.19
		----------	True	Calc.	% Drift	----------		
34	M	2-butanone	20.000	22.200	-11.0	105	0.02	8.51
		----------	AvgRF	CCRF	% Dev	----------		
35	M	1,1-dichloroethane	0.638	0.729	-14.3	107	-0.01	7.74
36	M	chloroprene	0.433	0.456	-5.3	98	0.00	7.85
37	M	acrylonitrile	0.123	0.148	-20.3#	112	0.00	7.15
		----------	True	Calc.	% Drift	----------		
38	M	vinyl acetate	20.000	18.545	7.3	105	0.03	7.80
		----------	AvgRF	CCRF	% Dev	----------		
39	M	ethyl acetate		----------NA----------				
40	M	2,2-dichloropropane	0.545	0.622	-14.1	116	0.00	8.46
41	M	cis-1,2-dichloroethene	0.393	0.428	-8.9	106	0.00	8.48
42	M	propionitrile	0.047	0.053	-12.8	109	0.01	8.55
43		methyl acrylate		----------NA----------				
44	M	bromochloromethane	0.184	0.204	-10.9	102	0.00	8.77
45	M	tetrahydrofuran	0.106	0.117	-10.4	105	0.00	8.84
46	M	chloroform	0.381	0.413	-8.4	104	0.00	8.83
47		t-butyl formate	0.344	0.338	1.7	94	0.00	8.87
48	S	dibromofluoromethane (s)	0.304	0.352	-15.8	109	0.00	9.03
49	S	1,2-dichloroethane-d4 (s)	0.325	0.380	-16.9	109	-0.01	9.45
50	M	freon 113	0.240	0.292	-21.7#	115	-0.01	6.12
		----------	True	Calc.	% Drift	----------		
51	M	methacrylonitrile	20.000	21.061	-5.3	106	0.02	8.76
		----------	AvgRF	CCRF	% Dev	----------		
52	M	1,1,1-trichloroethane	0.509	0.552	-8.4	104	0.00	9.07
53		Cyclohexane	0.599	0.668	-11.5	108	0.00	9.14
		----------	True	Calc.	% Drift	----------		
54		iso-butyl alcohol	200.000	211.705	-5.9	123	0.01	9.33
		----------	AvgRF	CCRF	% Dev	----------		
55		Tert Amyl Alcohol		----------NA----------				
56		2,2,4-trimethylpentane	1.351	1.415	-4.7	99	0.00	9.52
57	M	tert-amyl methyl ether	0.292	0.289	1.0	98	-0.01	9.56
58	I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00	9.91
59	M	Di-isobutylene		----------NA----------				
		----------	True	Calc.	% Drift	----------		
60	M	epichlorohydrin	100.000	97.526	2.5	110	0.01	11.21
		----------	AvgRF	CCRF	% Dev	----------		
61	M	n-butyl alcohol	0.008	0.009#	-12.5	121	0.02	10.09
62	M	carbon tetrachloride	0.399	0.405	-1.5	102	0.00	9.28
63	M	1,1-dichloropropene	0.389	0.423	-8.7	106	0.00	9.27
64	M	hexane	0.387	0.424	-9.6	110	0.00	7.48
65	M	benzene	1.235	1.264	-2.3	102	0.00	9.52
66	M	heptane	0.230	0.236	-2.6	109	0.00	9.71
67	M	isopropyl acetate	0.494	0.585	-18.4	110	0.00	9.48
68	M	1,2-dichloroethane	0.334	0.369	-10.5	105	0.00	9.54

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4807-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107435.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

69		ethyl acrylate		----------NA----------				
70	M	trichloroethene	0.300	0.305	-1.7	100	0.00	10.25
71		Tert-amyl ethyl ether		----------NA----------				
72	M	2-nitropropane	0.095	0.095	0.0	100	0.00	11.05
73	M	2-chloroethyl vinyl ether	0.177	0.185	-4.5	96	0.00	11.07
74	M	methyl methacrylate	0.070	0.069	1.4	96	0.00	10.56
75	M	1,2-dichloropropane	0.315	0.328	-4.1	105	0.00	10.51
76	M	methylcyclohexane	0.532	0.529	0.6	96	0.00	10.46
77	M	dibromomethane	0.166	0.178	-7.2	102	0.00	10.68
78	M	bromodichloromethane	0.375	0.387	-3.2	101	0.00	10.81
79	M	cis-1,3-dichloropropene	0.498	0.524	-5.2	105	0.00	11.29
80	S	toluene-d8 (s)	0.999	1.142	-14.3	108	0.00	11.57
81	M	4-methyl-2-pentanone	0.105	0.115	-9.5	109	0.00	11.40
82	M	toluene	0.722	0.744	-3.0	99	0.00	11.65
83	M	3-methyl-1-butanol	0.008	0.008#	0.0	115	0.00	11.44
84	M	trans-1,3-dichloropropene	0.434	0.449	-3.5	104	0.00	11.87
85	M	ethyl methacrylate	0.345	0.354	-2.6	102	0.01	11.88
86	M	1,1,2-trichloroethane	0.204	0.218	-6.9	102	0.00	12.07
87	M	2-hexanone	0.085	0.105	-23.5#	113	0.02	12.30
88	I	chlorobenzene-d5	1.000	1.000	0.0	96	0.00	13.10
89	M	tetrachloroethene	0.438	0.371	15.3	85	0.00	12.24
90	M	1,3-dichloropropane	0.509	0.553	-8.6	105	0.00	12.26
		----------	True	Calc.	% Drift	----------		
91	M	butyl acetate	20.000	21.472	-7.4	112	0.01	12.36
		----------	AvgRF	CCRF	% Dev	----------		
92		3,3-dimethyl-1-butanol	0.039	0.043	-10.3	110	0.00	12.44
93	M	dibromochloromethane	0.337	0.354	-5.0	98	0.00	12.52
94	M	1,2-dibromoethane	0.293	0.306	-4.4	101	0.00	12.67
95		n-butyl ether		----------NA----------				
96	M	chlorobenzene	0.919	0.979	-6.5	100	0.00	13.14
97	M	1,1,1,2-tetrachloroethane	0.353	0.372	-5.4	99	0.00	13.19
98	M	ethylbenzene	1.596	1.673	-4.8	101	0.00	13.19
99	M	m,p-xylene	0.623	0.652	-4.7	100	0.00	13.30
100	M	o-xylene	0.645	0.654	-1.4	98	0.00	13.72
101	M	styrene	1.036	1.021	1.4	96	0.00	13.74
102		butyl acrylate		----------NA----------				
103	M	bromoform	0.235	0.233	0.9	93	0.00	13.99
104	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	15.43
105	M	isopropylbenzene	2.966	3.177	-7.1	99	0.00	14.06
106	S	4-bromofluorobenzene (s)	0.826	0.906	-9.7	105	0.00	14.27
107	M	bromobenzene	0.713	0.769	-7.9	98	0.00	14.46
108	M	cyclohexanone	0.062	0.085	-37.1#	125	0.00	14.22
109	M	1,1,2,2-tetrachloroethane	0.724	0.831	-14.8	104	0.00	14.37
110	M	trans-1,4-dichloro-2-bute	0.167	0.176	-5.4	96	0.00	14.42
111	M	1,2,3-trichloropropane	0.190	0.210	-10.5	101	0.00	14.44
112	M	n-propylbenzene	3.249	3.525	-8.5	100	0.00	14.47
113		p-Ethyltoluene		----------NA----------				
114	M	2-chlorotoluene	0.680	0.750	-10.3	100	0.00	14.61
115	M	4-chlorotoluene	2.048	2.222	-8.5	99	0.00	14.71
116	M	1,3,5-trimethylbenzene	2.521	2.672	-6.0	98	0.00	14.63
117	M	tert-butylbenzene	2.097	2.222	-6.0	97	0.00	14.97
118	M	pentachloroethane	0.393	0.512	-30.3#	107	0.00	15.04
119	M	1,2,4-trimethylbenzene	2.372	2.588	-9.1	97	0.00	15.02
120	M	sec-butylbenzene	3.268	3.452	-5.6	98	0.00	15.18
121	M	1,3-dichlorobenzene	1.420	1.490	-4.9	94	0.00	15.37
122	M	p-isopropyltoluene	2.714	2.886	-6.3	96	0.00	15.31

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4807-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107435.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

123	m	1,2,3-TRIMETHYLBENZENE		----------NA----------				
124	M	1,4-dichlorobenzene	1.528	1.548	-1.3	94	0.00	15.45
125		p-Diethylbenzene		----------NA----------				
126	M	1,2-dichlorobenzene	1.451	1.488	-2.5	93	0.00	15.84
127	M	n-butylbenzene	1.384	1.470	-6.2	98	0.00	15.72
128		1,2,4,5-tetramethylbenzen		----------NA----------				
129	M	1,2-dibromo-3-chloropropa	0.139	0.139	0.0	94	0.00	16.57
130		1,3,5-trichlorobenzene	1.283	1.330	-3.7	92	0.00	16.75
131	M	1,2,4-trichlorobenzene	1.162	1.182	-1.7	92	0.00	17.32
132	M	hexachlorobutadiene	0.577	0.540	6.4	85	0.00	17.42
133	M	naphthalene	2.476	2.639	-6.6	97	0.00	17.56
134	M	1,2,3-trichlorobenzene	1.040	1.057	-1.6	92	0.00	17.78
135	M	hexachloroethane	0.511	0.530	-3.7	93	0.00	16.08
136		Benzyl chloride	1.506	1.662	-10.4	104	0.00	15.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E106646.D M2E4774.M Wed Oct 22 15:31:03 2014 ACCNJ

6.7.7

6

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: V2E4808-CC4774
Lab FileID: 2E107471.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2E\v2e4808-09\2E107471.D   Vial: 2
Acq On    : 22 Oct 2014   9:34 am                        Operator: DIXITAR
Sample    : cc4774-20                                    Inst    : Instrument #1
Misc      : MS75807,V2E4808,5,,,,1                       Multiplr: 1.00
MS Integration Params: rteint4.p

Method       : C:\msdchem\1\METHODS\M2E4774.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
Last Update  : Wed Oct 01 09:09:50 2014
Response via : Multiple Level Calibration

Min. RRF     :   0.010  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	116	-0.01	6.81
2	M	1,4-dioxane	0.085	0.090	-5.9	127	0.00	10.65
3	M	tertiary butyl alcohol	1.050	1.034	1.5	120	0.00	6.94
		----------	True	Calc.	% Drift	----------		
4		ethanol	2000.000	2122.151	-6.1	106	0.00	5.63
		----------	AvgRF	CCRF	% Dev	----------		
5	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	8.99
6		freon 143a		----------NA----------				
7		freon 142b		----------NA----------				
8		freon 141b		----------NA----------				
9		Propylene		----------NA----------				
10	M	chlorodifluoromethane	0.455	0.365	19.8	81	0.00	3.74
		----------	True	Calc.	% Drift	----------		
11	M	dichlorodifluoromethane	20.000	22.840	-14.2	112	0.00	3.73
		----------	AvgRF	CCRF	% Dev	----------		
12	M	chloromethane	0.535	0.602	-12.5	114	-0.02	4.01
13	M	vinyl chloride	0.508	0.601	-18.3	114	-0.03	4.24
14	M	bromomethane	0.293	0.338	-15.4	110	-0.01	4.81
15	M	chloroethane	0.232	0.277	-19.4	115	0.00	4.97
		----------	True	Calc.	% Drift	----------		
16	M	trichlorofluoromethane	20.000	23.909	-19.5	114	0.03	5.39
		----------	AvgRF	CCRF	% Dev	----------		
17		Pentane		----------NA----------				
18	M	ethyl ether	0.211	0.252	-19.4	116	0.00	5.76
19		2-chloropropane	0.681	0.749	-10.0	121	0.00	5.93
20	M	acrolein	0.063	0.076	-20.6#	124	0.00	6.00
21	M	1,1-dichloroethene	0.544	0.615	-13.1	115	0.00	6.14
22	M	acetone	0.037	0.039	-5.4	104	0.02	6.24
23		acetonitrile	0.030	0.033	-10.0	110	0.02	6.64
24	M	allyl chloride	0.193	0.203	-5.2	110	0.00	6.65
25	M	iodomethane	0.618	0.650	-5.2	107	0.00	6.40
26	M	carbon disulfide	1.292	1.403	-8.6	115	0.00	6.52
27	M	methylene chloride	0.402	0.437	-8.7	113	0.00	6.82
28	M	methyl acetate	0.058	0.065	-12.1	116	0.02	6.67
29		1-chloropropane	0.169	0.177	-4.7	117	0.00	6.86

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4808-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107471.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

30	M	methyl tert butyl ether	1.138	1.223	-7.5	110	-0.01	7.14
31	M	trans-1,2-dichloroethene	0.537	0.602	-12.1	114	0.00	7.19
32	M	di-isopropyl ether	1.165	1.223	-5.0	102	0.00	7.73
33	M	ethyl tert-butyl ether	1.202	1.151	4.2	97	0.00	8.19
		----------	True	Calc.	% Drift	----------		
34	M	2-butanone	20.000	22.529	-12.6	112	0.02	8.51
		----------	AvgRF	CCRF	% Dev	----------		
35	M	1,1-dichloroethane	0.638	0.731	-14.6	112	0.00	7.74
36	M	chloroprene	0.433	0.427	1.4	96	0.00	7.86
37	M	acrylonitrile	0.123	0.156	-26.8#	123	0.00	7.16
		----------	True	Calc.	% Drift	----------		
38	M	vinyl acetate	20.000	17.003	15.0	99	0.04	7.81
		----------	AvgRF	CCRF	% Dev	----------		
39	M	ethyl acetate		----------NA----------				
40	M	2,2-dichloropropane	0.545	0.636	-16.7	124	0.00	8.46
41	M	cis-1,2-dichloroethene	0.393	0.426	-8.4	111	0.00	8.48
42	M	propionitrile	0.047	0.056	-19.1	119	0.01	8.55
43		methyl acrylate		----------NA----------				
44	M	bromochloromethane	0.184	0.202	-9.8	105	0.00	8.78
45	M	tetrahydrofuran	0.106	0.123	-16.0	115	0.00	8.84
46	M	chloroform	0.381	0.416	-9.2	109	0.00	8.84
47		t-butyl formate	0.344	0.332	3.5	97	0.00	8.87
48	S	dibromofluoromethane (s)	0.304	0.354	-16.4	115	0.00	9.03
49	S	1,2-dichloroethane-d4 (s)	0.325	0.376	-15.7	112	-0.01	9.45
50	M	freon 113	0.240	0.257	-7.1	106	0.00	6.12
		----------	True	Calc.	% Drift	----------		
51	M	methacrylonitrile	20.000	20.860	-4.3	109	0.02	8.76
		----------	AvgRF	CCRF	% Dev	----------		
52	M	1,1,1-trichloroethane	0.509	0.566	-11.2	111	0.00	9.07
53		Cyclohexane	0.599	0.672	-12.2	113	0.00	9.14
		----------	True	Calc.	% Drift	----------		
54		iso-butyl alcohol	200.000	200.740	-0.4	121	0.02	9.34
		----------	AvgRF	CCRF	% Dev	----------		
55		Tert Amyl Alcohol		----------NA----------				
56		2,2,4-trimethylpentane	1.351	1.297	4.0	95	0.00	9.52
57	M	tert-amyl methyl ether	0.292	0.267	8.6	95	0.00	9.56
58	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00	9.91
59	M	Di-isobutylene		----------NA----------				
		----------	True	Calc.	% Drift	----------		
60	M	epichlorohydrin	100.000	90.904	9.1	108	0.01	11.21
		----------	AvgRF	CCRF	% Dev	----------		
61	M	n-butyl alcohol	0.008	0.009#	-12.5	123	0.02	10.09
62	M	carbon tetrachloride	0.399	0.403	-1.0	108	0.00	9.28
63	M	1,1-dichloropropene	0.389	0.435	-11.8	115	0.00	9.27
64	M	hexane	0.387	0.377	2.6	103	0.00	7.49
65	M	benzene	1.235	1.293	-4.7	110	0.00	9.52
66	M	heptane	0.230	0.204	11.3	100	0.00	9.71
67	M	isopropyl acetate	0.494	0.536	-8.5	107	0.02	9.49
68	M	1,2-dichloroethane	0.334	0.365	-9.3	109	0.00	9.54

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4808-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107471.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

69		ethyl acrylate		----------NA----------				
70	M	trichloroethene	0.300	0.304	-1.3	106	0.00	10.25
71		Tert-amyl ethyl ether		----------NA----------				
72	M	2-nitropropane	0.095	0.097	-2.1	108	0.01	11.07
73	M	2-chloroethyl vinyl ether	0.177	0.180	-1.7	98	0.00	11.07
74	M	methyl methacrylate	0.070	0.072	-2.9	106	0.01	10.57
75	M	1,2-dichloropropane	0.315	0.348	-10.5	117	0.00	10.51
76	M	methylcyclohexane	0.532	0.467	12.2	89	0.00	10.46
77	M	dibromomethane	0.166	0.181	-9.0	109	0.00	10.68
78	M	bromodichloromethane	0.375	0.390	-4.0	108	0.00	10.81
79	M	cis-1,3-dichloropropene	0.498	0.525	-5.4	111	0.00	11.29
80	S	toluene-d8 (s)	0.999	1.160	-16.1	116	0.00	11.57
81	M	4-methyl-2-pentanone	0.105	0.115	-9.5	117	0.01	11.40
82	M	toluene	0.722	0.761	-5.4	107	0.00	11.65
83	M	3-methyl-1-butanol	0.008	0.008#	0.0	118	0.00	11.44
84	M	trans-1,3-dichloropropene	0.434	0.463	-6.7	113	0.00	11.87
85	M	ethyl methacrylate	0.345	0.361	-4.6	109	0.01	11.88
86	M	1,1,2-trichloroethane	0.204	0.223	-9.3	110	0.00	12.07
87	M	2-hexanone	0.085	0.104	-22.4#	119	0.03	12.30
88	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.10
89	M	tetrachloroethene	0.438	0.363	17.1	89	0.00	12.25
90	M	1,3-dichloropropane	0.509	0.553	-8.6	112	0.00	12.26
		----------	True	Calc.	% Drift	----------		
91	M	butyl acetate	20.000	20.293	-1.5	112	0.02	12.37
		----------	AvgRF	CCRF	% Dev	----------		
92		3,3-dimethyl-1-butanol	0.039	0.041	-5.1	111	0.00	12.44
93	M	dibromochloromethane	0.337	0.344	-2.1	102	0.00	12.52
94	M	1,2-dibromoethane	0.293	0.309	-5.5	109	0.00	12.67
95		n-butyl ether		----------NA----------				
96	M	chlorobenzene	0.919	0.979	-6.5	107	0.00	13.14
97	M	1,1,1,2-tetrachloroethane	0.353	0.357	-1.1	101	0.00	13.19
98	M	ethylbenzene	1.596	1.657	-3.8	107	0.00	13.19
99	M	m,p-xylene	0.623	0.642	-3.0	105	0.00	13.30
100	M	o-xylene	0.645	0.653	-1.2	104	0.00	13.72
101	M	styrene	1.036	1.004	3.1	101	0.00	13.74
102		butyl acrylate		----------NA----------				
103	M	bromoform	0.235	0.225	4.3	97	0.00	13.99
104	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	15.42
105	M	isopropylbenzene	2.966	3.189	-7.5	103	0.00	14.06
106	S	4-bromofluorobenzene (s)	0.826	0.931	-12.7	112	0.00	14.27
107	M	bromobenzene	0.713	0.785	-10.1	104	0.00	14.46
108	M	cyclohexanone	0.062	0.041	33.9#	63	0.00	14.22
109	M	1,1,2,2-tetrachloroethane	0.724	0.846	-16.9	110	0.00	14.37
110	M	trans-1,4-dichloro-2-bute	0.167	0.190	-13.8	108	0.00	14.42
111	M	1,2,3-trichloropropane	0.190	0.219	-15.3	110	0.00	14.44
112	M	n-propylbenzene	3.249	3.597	-10.7	106	0.00	14.47
113		p-Ethyltoluene		----------NA----------				
114	M	2-chlorotoluene	0.680	0.757	-11.3	105	0.00	14.61
115	M	4-chlorotoluene	2.048	2.298	-12.2	107	0.00	14.71
116	M	1,3,5-trimethylbenzene	2.521	2.686	-6.5	102	0.00	14.63
117	M	tert-butylbenzene	2.097	2.245	-7.1	102	0.00	14.97
118	M	pentachloroethane	0.393	0.512	-30.3#	112	0.00	15.04
119	M	1,2,4-trimethylbenzene	2.372	2.603	-9.7	102	0.00	15.02
120	M	sec-butylbenzene	3.268	3.489	-6.8	103	0.00	15.18
121	M	1,3-dichlorobenzene	1.420	1.486	-4.6	98	0.00	15.37
122	M	p-isopropyltoluene	2.714	2.869	-5.7	99	0.00	15.31

Continuing Calibration Summary

Job Number: JB79217 **Sample:** V2E4808-CC4774
Account: PILOTSS Pilot Travel Centers LLC **Lab FileID:** 2E107471.D
Project: SCNJCH: #290, Heather Lane, Perryville, MD

123	m	1,2,3-TRIMETHYLBENZENE		----------NA----------				
124	M	1,4-dichlorobenzene	1.528	1.564	-2.4	99	0.00	15.45
125		p-Diethylbenzene		----------NA----------				
126	M	1,2-dichlorobenzene	1.451	1.502	-3.5	98	0.00	15.84
127	M	n-butylbenzene	1.384	1.484	-7.2	103	0.00	15.72
128		1,2,4,5-tetramethylbenzen		----------NA----------				
129	M	1,2-dibromo-3-chloropropa	0.139	0.150	-7.9	105	0.00	16.57
130		1,3,5-trichlorobenzene	1.283	1.331	-3.7	96	0.00	16.75
131	M	1,2,4-trichlorobenzene	1.162	1.185	-2.0	96	0.00	17.32
132	M	hexachlorobutadiene	0.577	0.544	5.7	89	0.00	17.42
133	M	naphthalene	2.476	2.713	-9.6	104	0.00	17.56
134	M	1,2,3-trichlorobenzene	1.040	1.094	-5.2	99	0.00	17.78
135	M	hexachloroethane	0.511	0.538	-5.3	98	0.00	16.08
136		Benzyl chloride	1.506	1.529	-1.5	99	0.00	15.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E106646.D M2E4774.M Thu Oct 23 16:16:16 2014 ACCNJ

6.7.8

6

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107451.D
Acq On : 21 Oct 2014 6:39 pm
Operator : DIXITAR
Sample : jb79217-1
Misc : MS75578,V2E4807,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 23 12:01:34 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

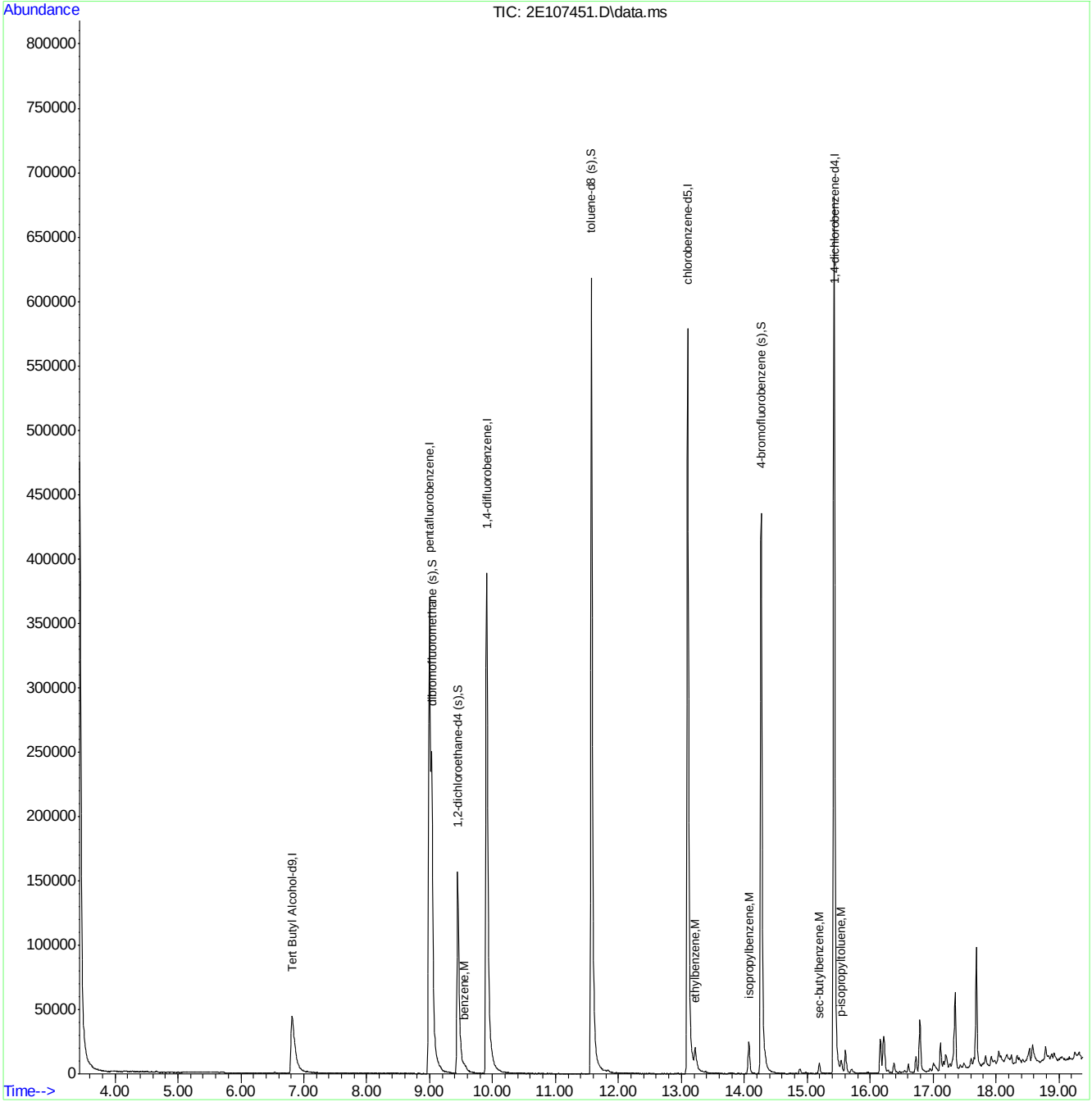
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.813	65	127489	500.00	ug/L	-0.01
5) pentafluorobenzene	8.994	168	364546	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	439058	50.00	ug/L	0.00
88) chlorobenzene-d5	13.100	117	377790	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	197173	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	126806	57.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 114.34%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	137383	57.96	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 115.92%			
80) toluene-d8 (s)	11.569	98	506985	57.80	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 115.60%			
106) 4-bromofluorobenzene (s)	14.269	95	182845	56.16	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 112.32%			
Target Compounds						Qvalue
65) benzene	9.555	78	7010	0.65	ug/L	89
98) ethylbenzene	13.220	91	19551	1.62	ug/L	96
105) isopropylbenzene	14.070	105	20831	1.78	ug/L	94
120) sec-butylbenzene	15.192	105	7341	0.57	ug/L	90
122) p-isopropyltoluene	15.543	119	5253	0.49	ug/L	91

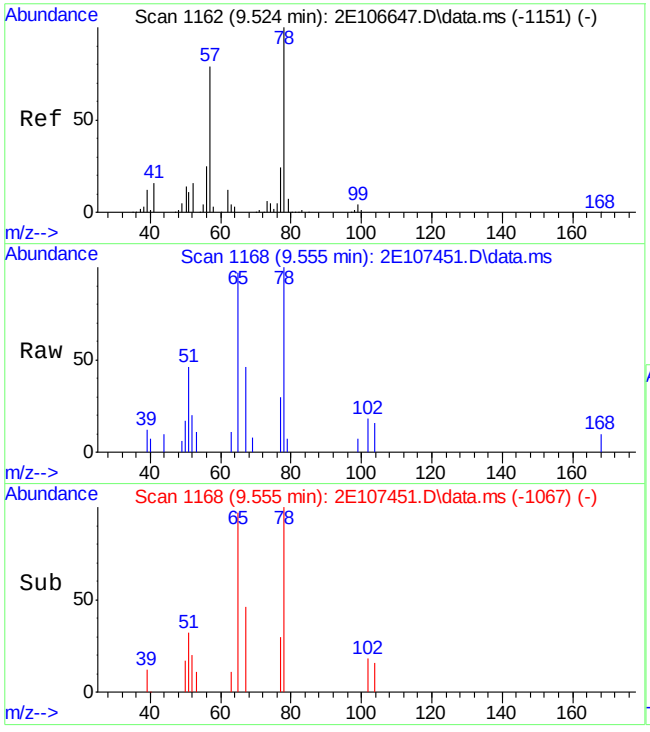
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107451.D
Acq On : 21 Oct 2014 6:39 pm
Operator : DIXITAR
Sample : jb79217-1
Misc : MS75578,V2E4807,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 23 12:01:34 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

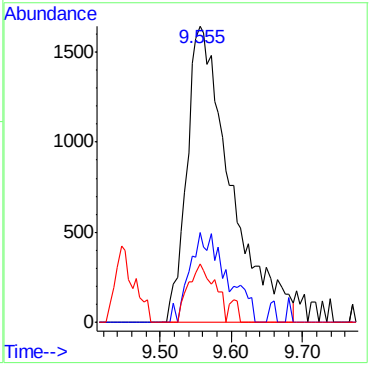


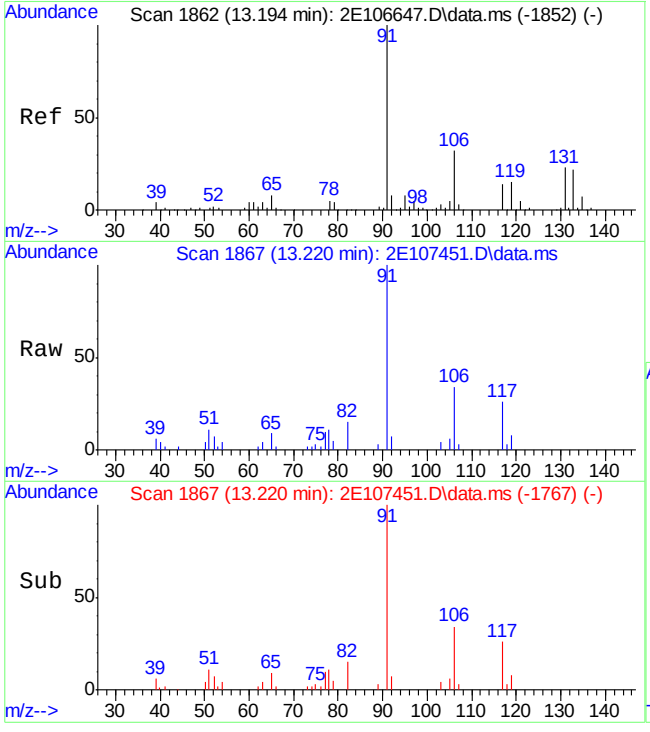


#65
benzene
Concen: 0.65 ug/L
RT: 9.555 min Scan# 1168
Delta R.T. 0.032 min
Lab File: 2E107451.D
Acq: 21 Oct 2014 6:39 pm

Tgt Ion: 78 Resp: 7010

Ion	Ratio	Lower	Upper
78	100		
77	30.5	0.0	54.0
52	19.7	0.0	46.4

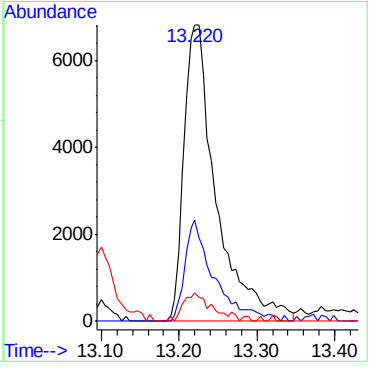


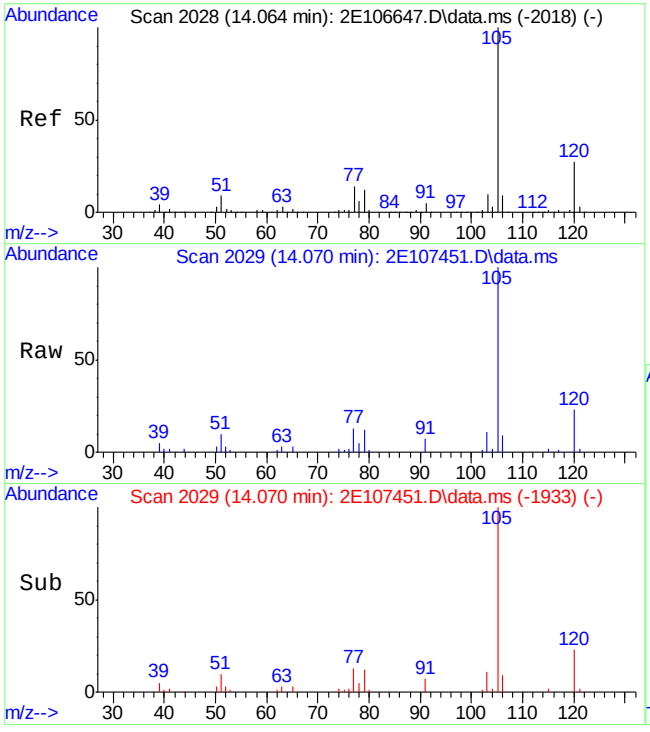


#98
ethylbenzene
Concen: 1.62 ug/L
RT: 13.220 min Scan# 1867
Delta R.T. 0.026 min
Lab File: 2E107451.D
Acq: 21 Oct 2014 6:39 pm

Tgt Ion: 91 Resp: 19551

Ion	Ratio	Lower	Upper
91	100		
106	34.0	1.8	61.8
77	9.5	0.0	38.5

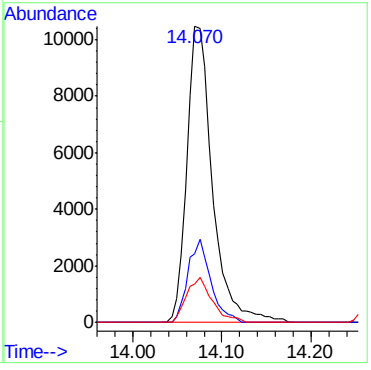


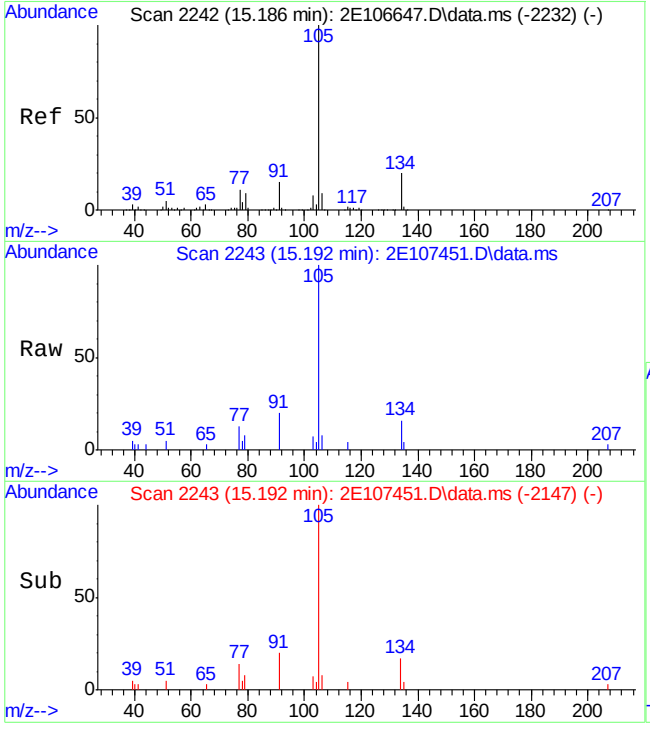


#105
isopropylbenzene
Concen: 1.78 ug/L
RT: 14.070 min Scan# 2029
Delta R.T. 0.005 min
Lab File: 2E107451.D
Acq: 21 Oct 2014 6:39 pm

Tgt Ion:105 Resp: 20831

Ion	Ratio	Lower	Upper
105	100		
120	23.0	0.0	56.7
77	13.0	0.0	44.0

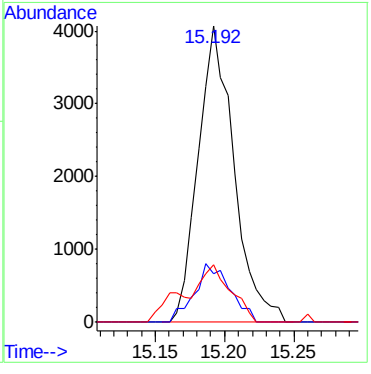


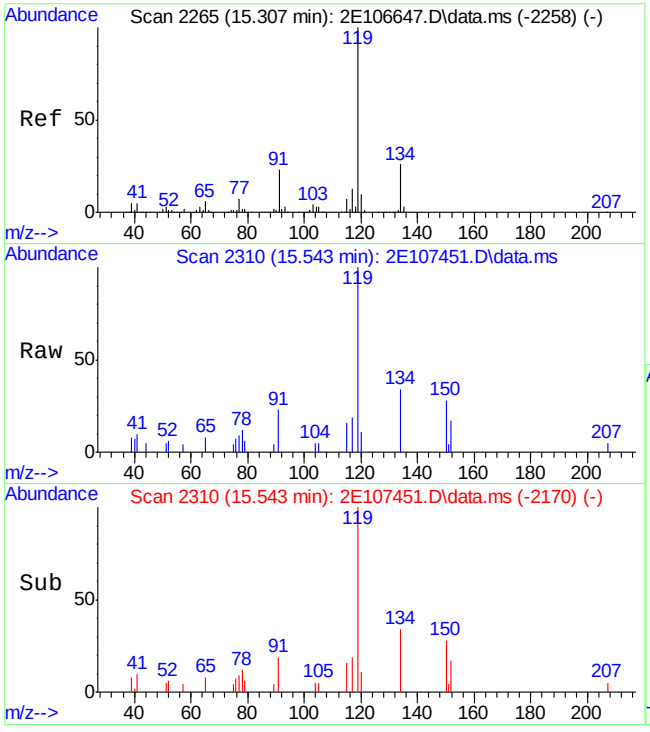


#120
sec-butylbenzene
Concen: 0.57 ug/L
RT: 15.192 min Scan# 2243
Delta R.T. 0.005 min
Lab File: 2E107451.D
Acq: 21 Oct 2014 6:39 pm

Tgt Ion:105 Resp: 7341

Ion	Ratio	Lower	Upper
105	100		
134	16.4	0.0	50.1
91	19.5	0.0	44.7

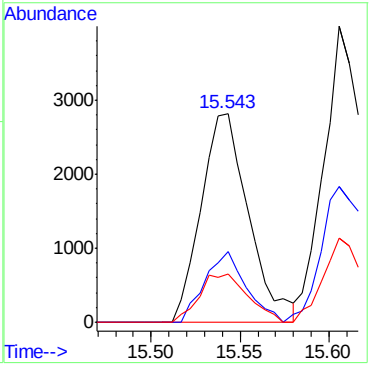




#122
p-isopropyltoluene
Concen: 0.49 ug/L
RT: 15.543 min Scan# 2310
Delta R.T. 0.236 min
Lab File: 2E107451.D
Acq: 21 Oct 2014 6:39 pm

Tgt Ion:119 Resp: 5253

Ion	Ratio	Lower	Upper
119	100		
134	33.6	0.0	55.9
91	23.2	0.0	52.6



7.1.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107452.D
Acq On : 21 Oct 2014 7:08 pm
Operator : DIXITAR
Sample : jb79217-2
Misc : MS75578,V2E4807,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 22 15:42:00 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.813	65	127452	500.00	ug/L	-0.01
5) pentafluorobenzene	8.994	168	360112	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	431947	50.00	ug/L	0.00
88) chlorobenzene-d5	13.105	117	368243	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	193951	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	127471	58.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 116.36%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	133420	56.98	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 113.96%			
80) toluene-d8 (s)	11.569	98	496186	57.50	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 115.00%			
106) 4-bromofluorobenzene (s)	14.269	95	178037	55.59	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 111.18%			
Target Compounds						Qvalue
65) benzene	9.534	78	36971	3.47	ug/L	99
105) isopropylbenzene	14.075	105	9306	0.81	ug/L	93
112) n-propylbenzene	14.505	91	5204	0.41	ug/L	98
117) tert-butylbenzene	14.971	119	6275	0.77	ug/L	99
119) 1,2,4-trimethylbenzene	15.045	105	2092	0.23	ug/L	96
120) sec-butylbenzene	15.186	105	46731	3.69	ug/L	96
127) n-butylbenzene	15.726	92	5875	1.09	ug/L	91

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

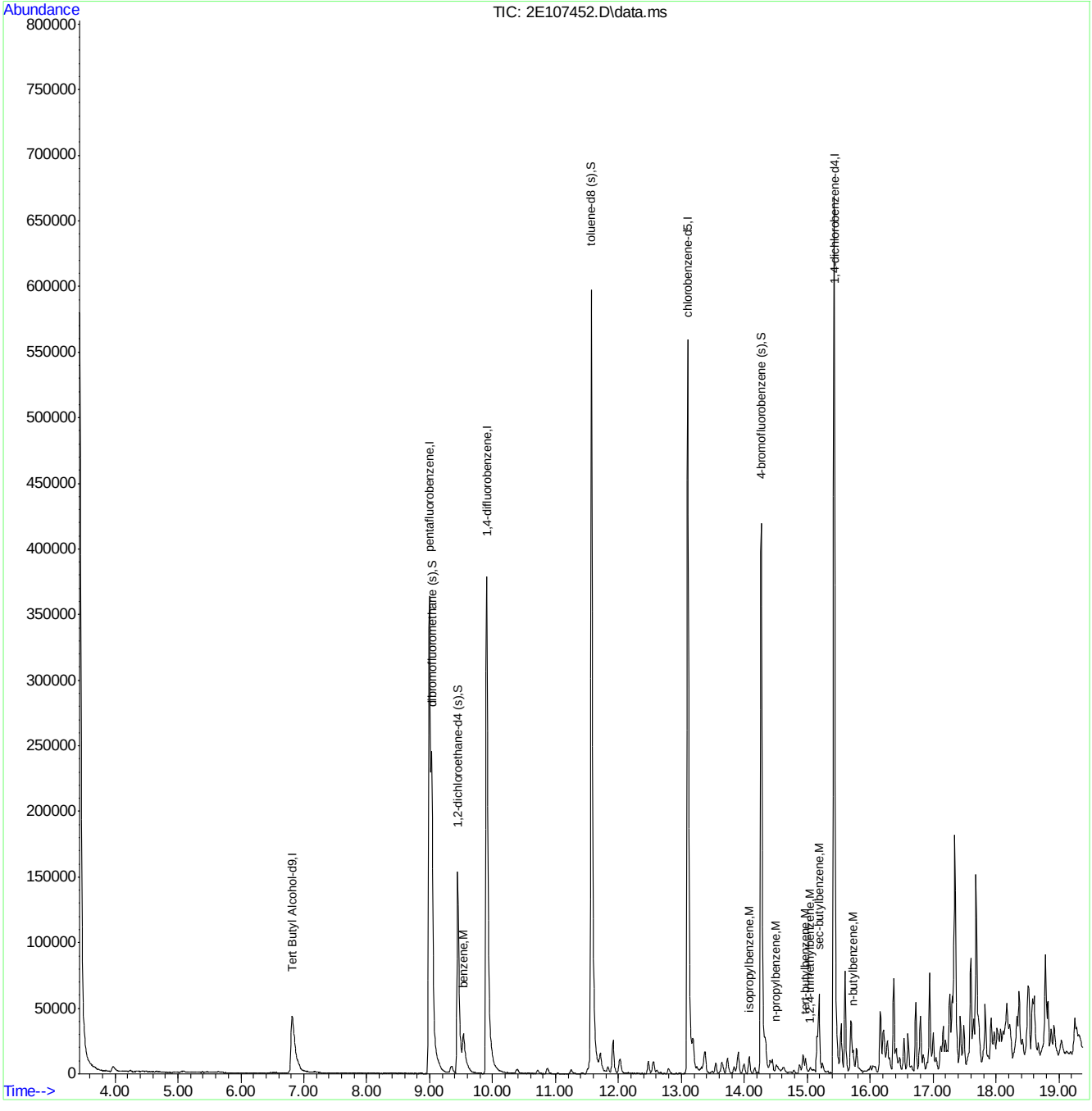
7.1.2

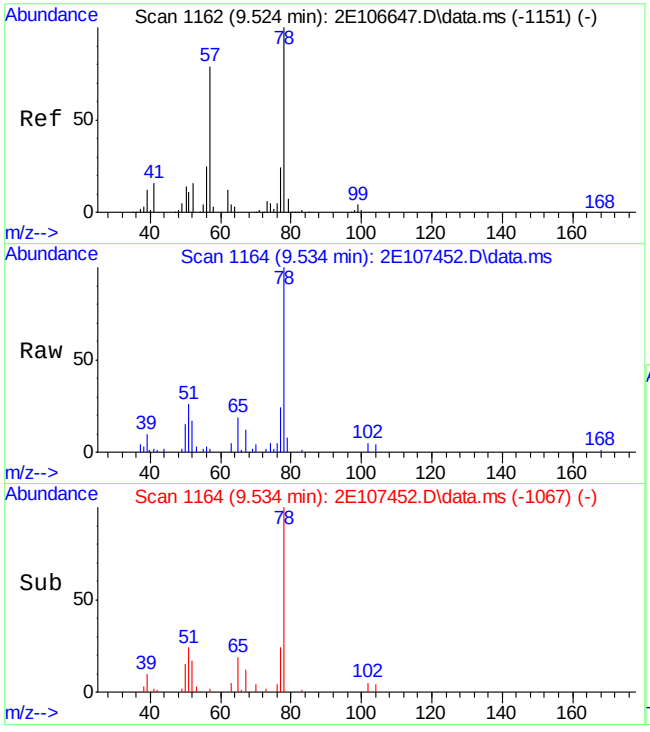
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107452.D
Acq On : 21 Oct 2014 7:08 pm
Operator : DIXITAR
Sample : jb79217-2
Misc : MS75578,V2E4807,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 22 15:42:00 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

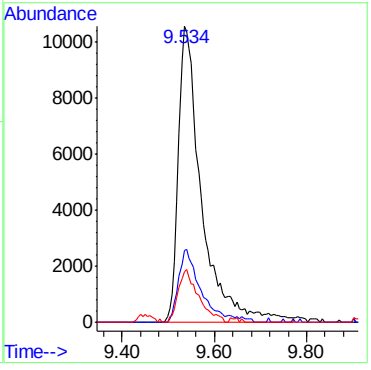


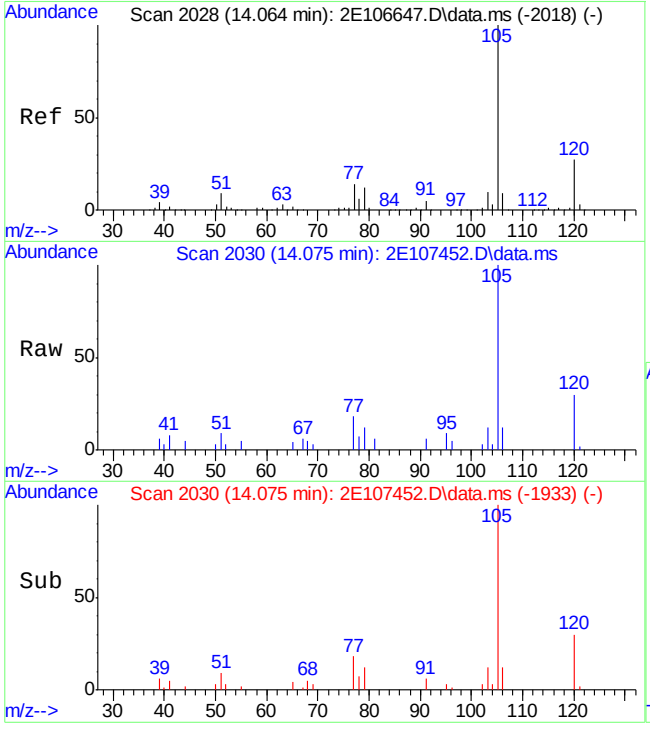


#65
benzene
Concen: 3.47 ug/L
RT: 9.534 min Scan# 1164
Delta R.T. 0.011 min
Lab File: 2E107452.D
Acq: 21 Oct 2014 7:08 pm

Tgt Ion: 78 Resp: 36971

Ion	Ratio	Lower	Upper
78	100		
77	24.4	0.0	54.0
52	17.1	0.0	46.4

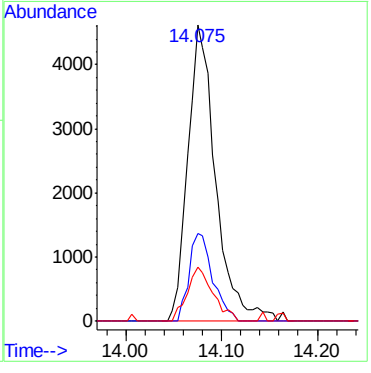


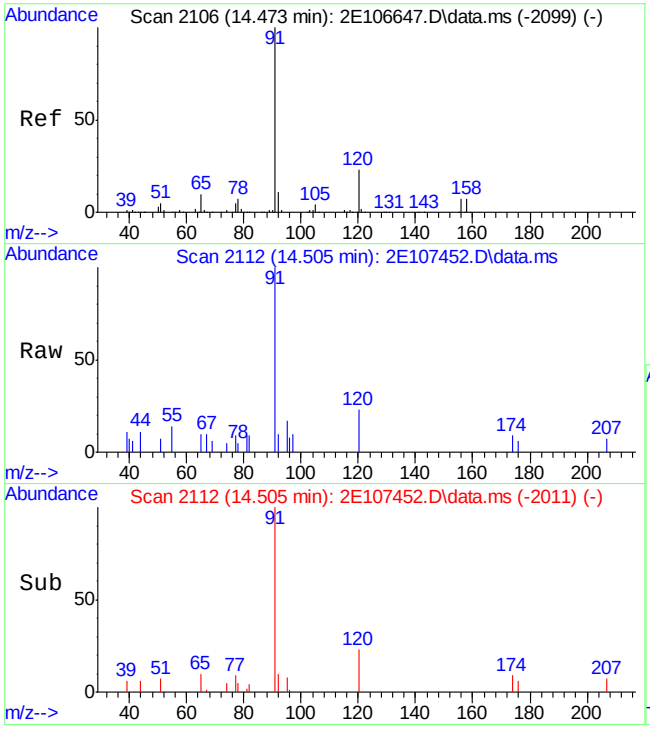


#105
isopropylbenzene
Concen: 0.81 ug/L
RT: 14.075 min Scan# 2030
Delta R.T. 0.011 min
Lab File: 2E107452.D
Acq: 21 Oct 2014 7:08 pm

Tgt Ion:105 Resp: 9306

Ion	Ratio	Lower	Upper
105	100		
120	29.7	0.0	56.7
77	18.3	0.0	44.0

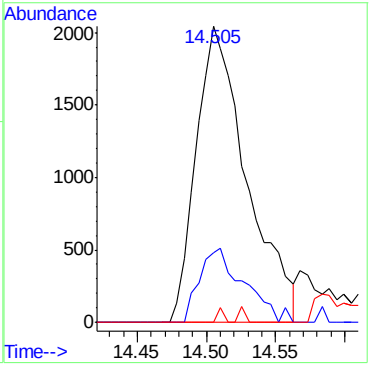


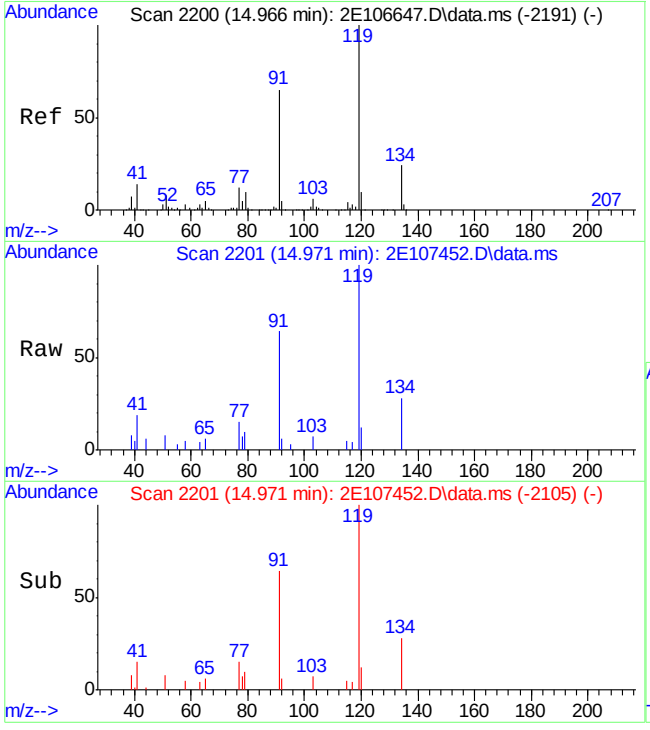


#112
n-propylbenzene
Concen: 0.41 ug/L
RT: 14.505 min Scan# 2112
Delta R.T. 0.031 min
Lab File: 2E107452.D
Acq: 21 Oct 2014 7:08 pm

Tgt Ion: 91 Resp: 5204

Ion	Ratio	Lower	Upper
91	100		
120	23.3	0.0	53.4
105	0.0	0.0	33.7

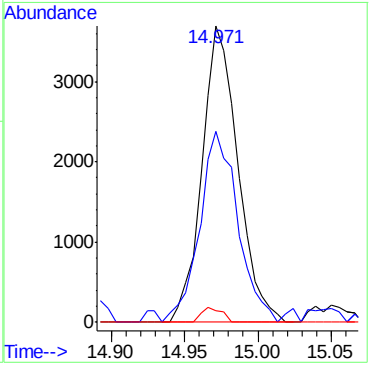




#117
tert-butylbenzene
Concen: 0.77 ug/L
RT: 14.971 min Scan# 2201
Delta R.T. 0.005 min
Lab File: 2E107452.D
Acq: 21 Oct 2014 7:08 pm

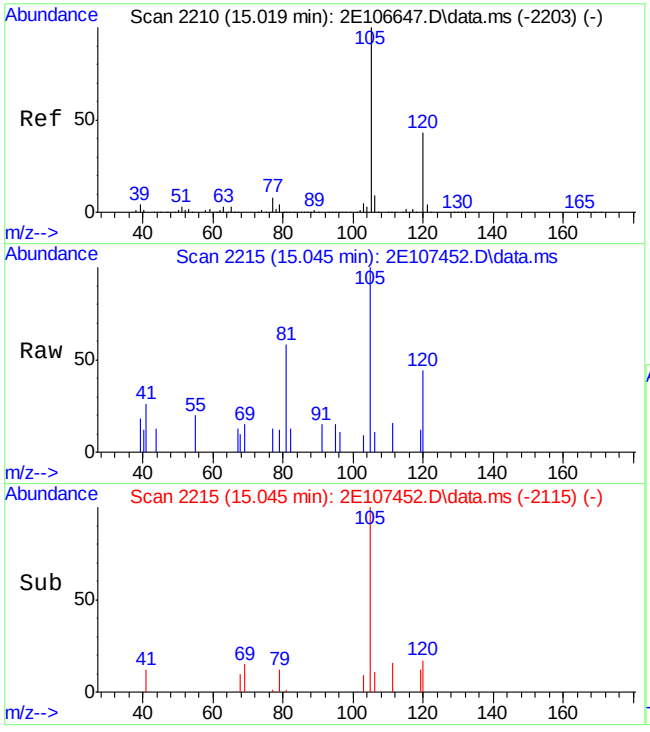
Tgt Ion:119 Resp: 6275

Ion	Ratio	Lower	Upper
119	100		
91	64.3	34.9	94.9
117	3.7	0.0	33.0



7.1.2

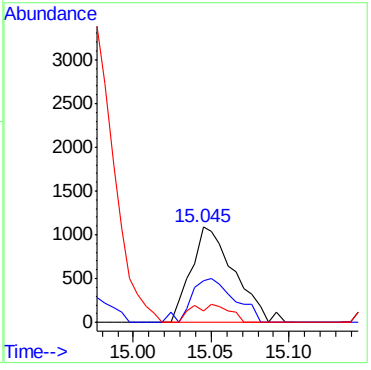
7

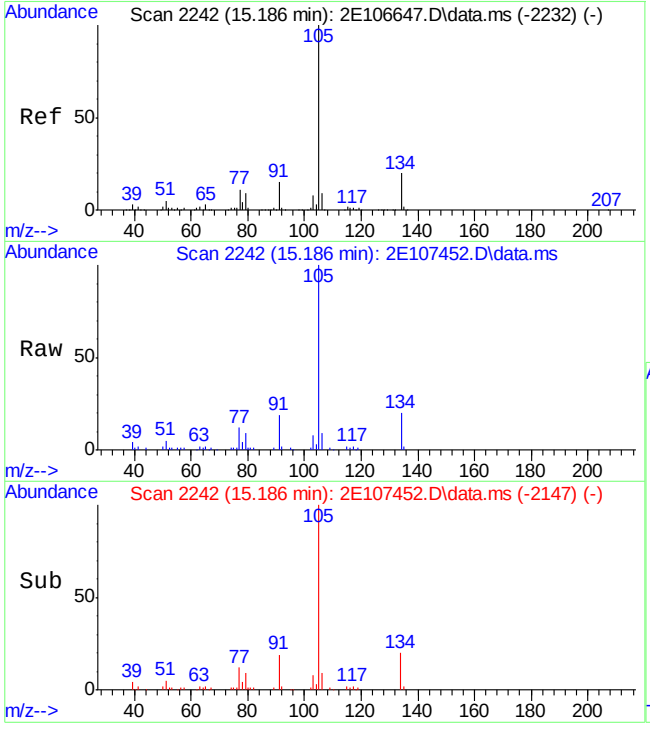


#119
1,2,4-trimethylbenzene
Concen: 0.23 ug/L
RT: 15.045 min Scan# 2215
Delta R.T. 0.027 min
Lab File: 2E107452.D
Acq: 21 Oct 2014 7:08 pm

Tgt Ion:105 Resp: 2092

Ion	Ratio	Lower	Upper
105	100		
120	43.8	16.9	76.9
119	12.0	0.0	43.0

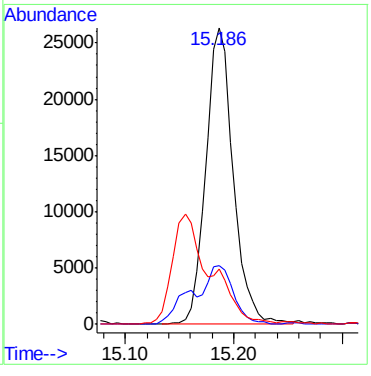


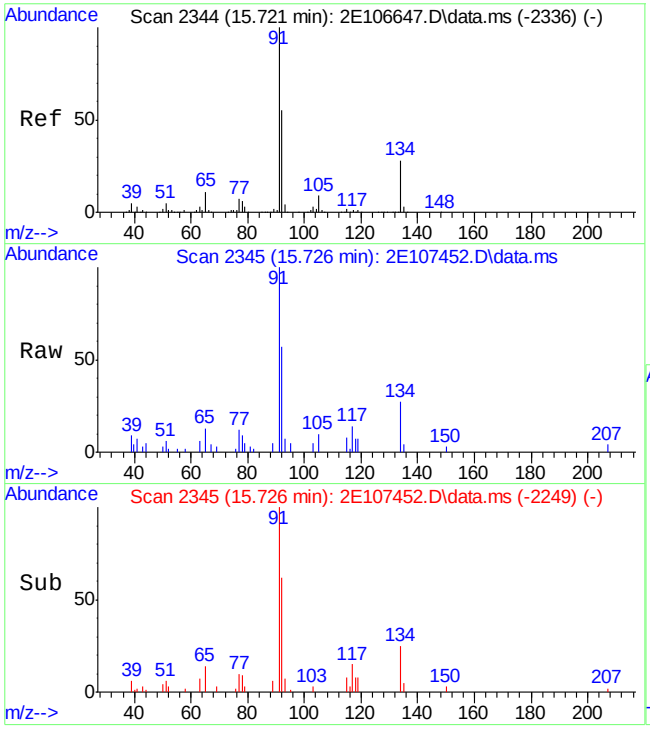


#120
sec-butylbenzene
Concen: 3.69 ug/L
RT: 15.186 min Scan# 2242
Delta R.T. 0.000 min
Lab File: 2E107452.D
Acq: 21 Oct 2014 7:08 pm

Tgt Ion:105 Resp: 46731

Ion	Ratio	Lower	Upper
105	100		
134	19.4	0.0	50.1
91	18.0	0.0	44.7

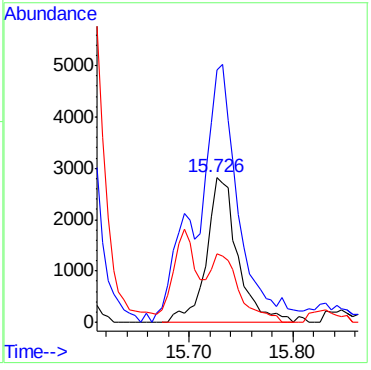




#127
n-butylbenzene
Concen: 1.09 ug/L
RT: 15.726 min Scan# 2345
Delta R.T. 0.005 min
Lab File: 2E107452.D
Acq: 21 Oct 2014 7:08 pm

Tgt Ion: 92 Resp: 5875

Ion	Ratio	Lower	Upper
92	100		
91	165.0	150.8	210.8
134	47.3	19.8	79.8



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107428.D
Acq On : 21 Oct 2014 5:12 am
Operator : DIXITAR
Sample : jb79217-3
Misc : MS75578,V2E4806,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 22 15:13:35 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

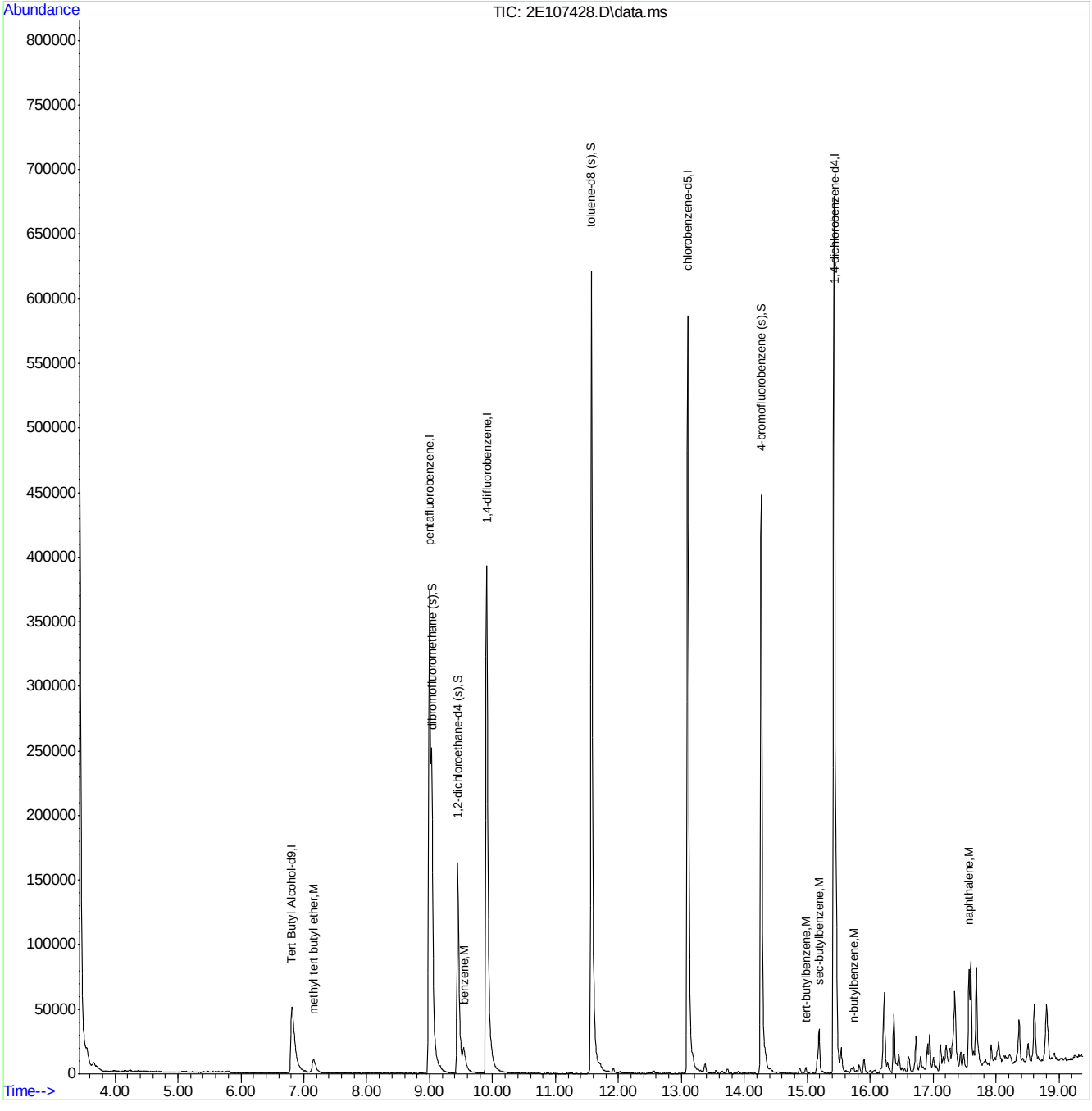
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.808	65	140694	500.00	ug/L	-0.02
5) pentafluorobenzene	8.994	168	367587	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	443989	50.00	ug/L	0.00
88) chlorobenzene-d5	13.100	117	380393	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	197771	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.036	113	129384	57.85	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 115.70%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	141070	59.02	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 118.04%			
80) toluene-d8 (s)	11.569	98	515665	58.14	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 116.28%			
106) 4-bromofluorobenzene (s)	14.269	95	183664	56.24	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 112.48%			
Target Compounds						Qvalue
30) methyl tert butyl ether	7.159	73	20985	2.51	ug/L	96
65) benzene	9.545	78	23814	2.17	ug/L	99
117) tert-butylbenzene	14.977	119	3095	0.37	ug/L	99
120) sec-butylbenzene	15.186	105	27254	2.11	ug/L	96
127) n-butylbenzene	15.737	92	1811	0.33	ug/L	84
133) naphthalene	17.567	128	66835	6.82	ug/L	98

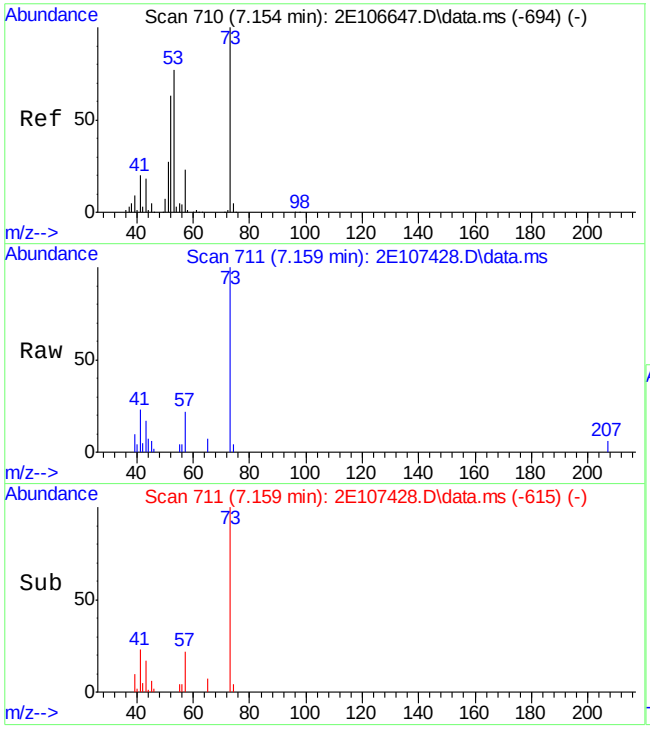
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107428.D
Acq On : 21 Oct 2014 5:12 am
Operator : DIXITAR
Sample : jb79217-3
Misc : MS75578,V2E4806,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 22 15:13:35 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

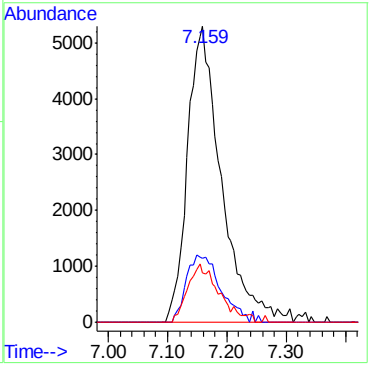


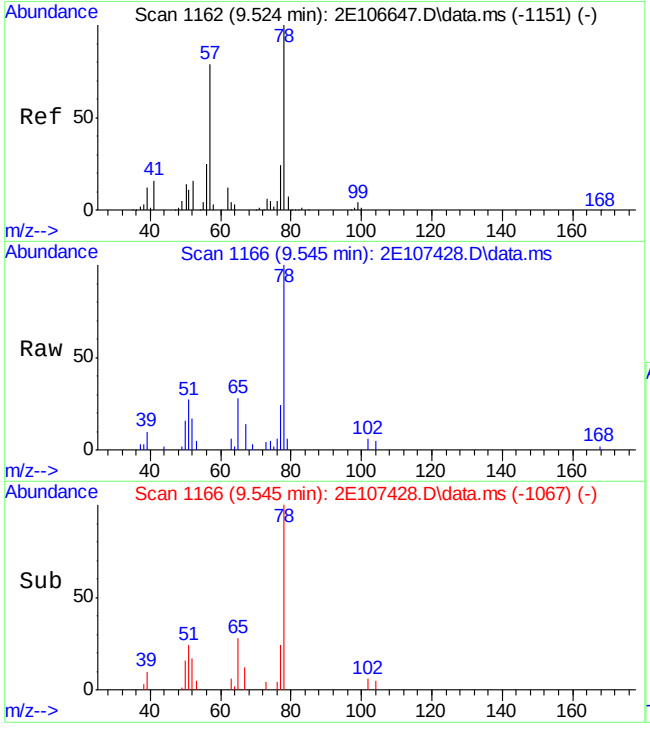


#30
methyl tert butyl ether
Concen: 2.51 ug/L
RT: 7.159 min Scan# 711
Delta R.T. 0.005 min
Lab File: 2E107428.D
Acq: 21 Oct 2014 5:12 am

Tgt Ion: 73 Resp: 20985

Ion	Ratio	Lower	Upper
73	100		
57	21.6	0.0	53.5
43	16.8	0.0	48.6

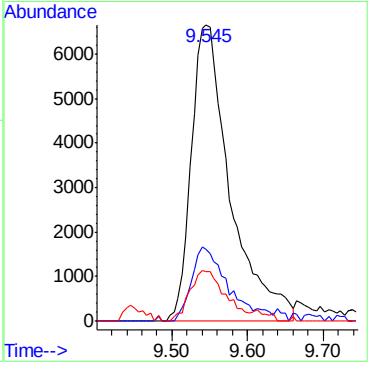


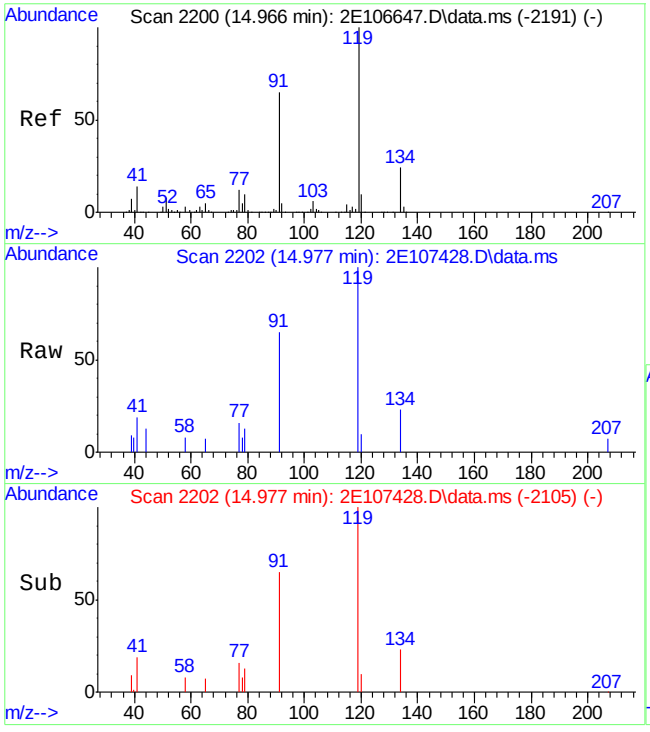


#65
benzene
Concen: 2.17 ug/L
RT: 9.545 min Scan# 1166
Delta R.T. 0.021 min
Lab File: 2E107428.D
Acq: 21 Oct 2014 5:12 am

Tgt Ion: 78 Resp: 23814

Ion	Ratio	Lower	Upper
78	100		
77	24.4	0.0	54.0
52	16.6	0.0	46.4

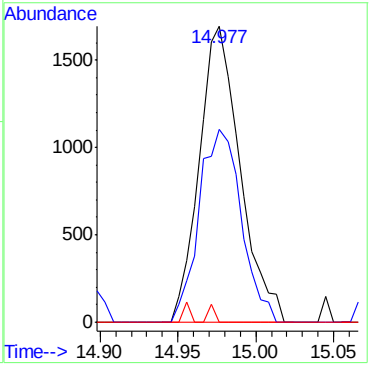


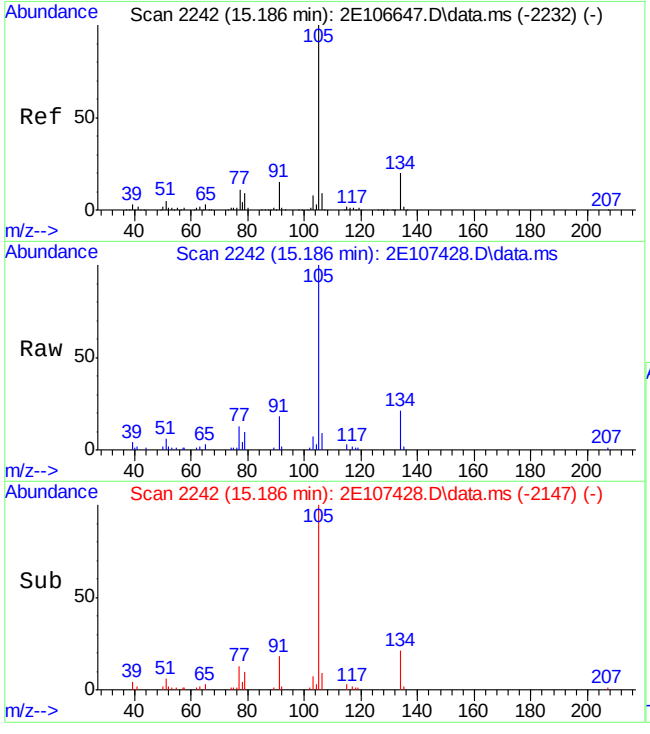


#117
tert-butylbenzene
Concen: 0.37 ug/L
RT: 14.977 min Scan# 2202
Delta R.T. 0.010 min
Lab File: 2E107428.D
Acq: 21 Oct 2014 5:12 am

Tgt Ion:119 Resp: 3095

Ion	Ratio	Lower	Upper
119	100		
91	65.2	34.9	94.9
117	0.0	0.0	33.0

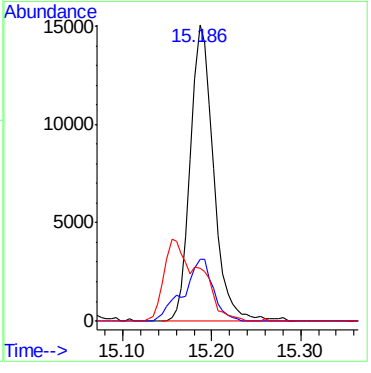


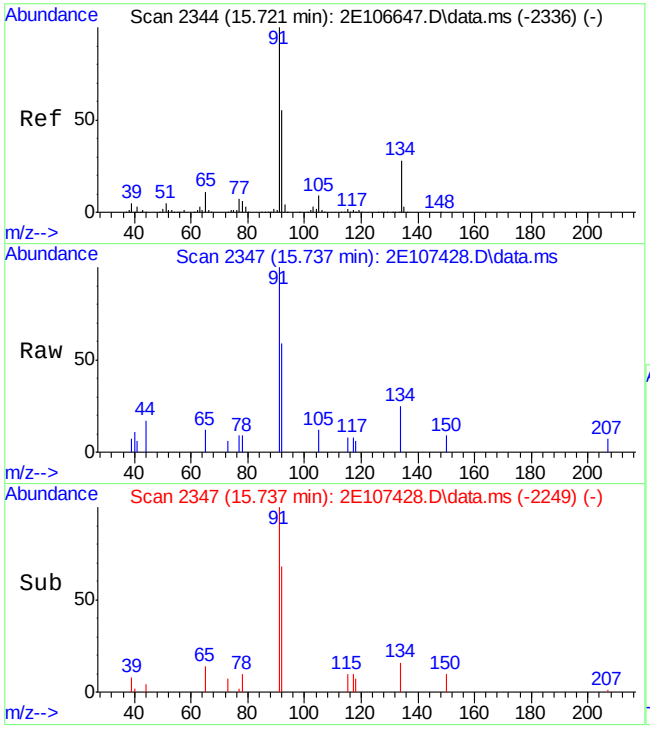


#120
sec-butylbenzene
Concen: 2.11 ug/L
RT: 15.186 min Scan# 2242
Delta R.T. -0.000 min
Lab File: 2E107428.D
Acq: 21 Oct 2014 5:12 am

Tgt Ion:105 Resp: 27254

Ion	Ratio	Lower	Upper
105	100		
134	20.8	0.0	50.1
91	18.0	0.0	44.7

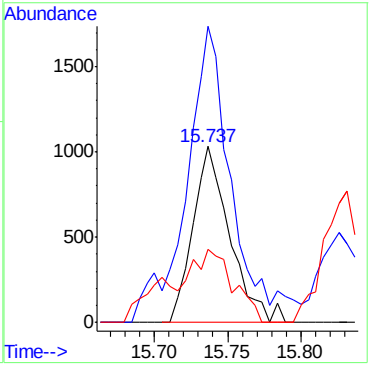


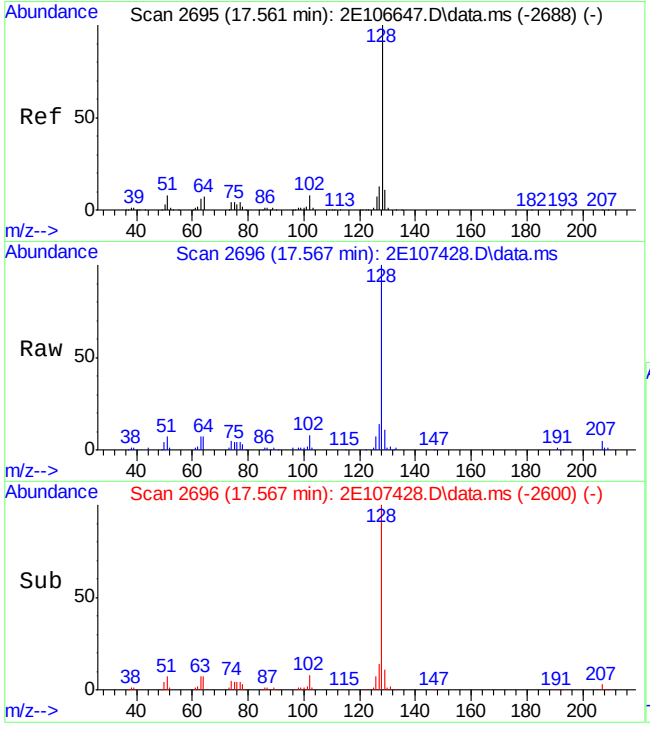


#127
n-butylbenzene
Concen: 0.33 ug/L
RT: 15.737 min Scan# 2347
Delta R.T. 0.016 min
Lab File: 2E107428.D
Acq: 21 Oct 2014 5:12 am

Tgt Ion: 92 Resp: 1811

Ion	Ratio	Lower	Upper
92	100		
91	155.9	150.8	210.8
134	41.3	19.8	79.8

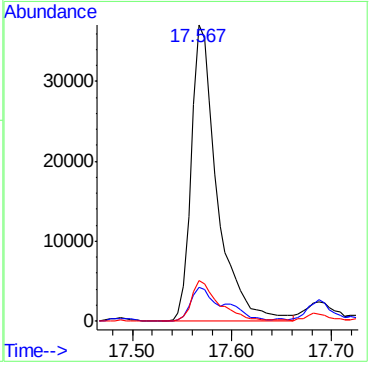




#133
naphthalene
Concen: 6.82 ug/L
RT: 17.567 min Scan# 2696
Delta R.T. 0.005 min
Lab File: 2E107428.D
Acq: 21 Oct 2014 5:12 am

Tgt Ion:128 Resp: 66835

Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	41.0
127	13.7	0.0	42.8



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/23/14 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107429.D
Acq On : 21 Oct 2014 5:41 am
Operator : DIXITAR
Sample : jb79217-4
Misc : MS75578,V2E4806,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Oct 22 15:14:48 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.803	65	144593	500.00	ug/L	-0.02
5) pentafluorobenzene	8.995	168	361719	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.902	114	443824	50.00	ug/L	-0.01
88) chlorobenzene-d5	13.100	117	377120	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	196255	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	127171	57.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 115.58%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	139288	59.22	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 118.44%			
80) toluene-d8 (s)	11.569	98	506154	57.09	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 114.18%			
106) 4-bromofluorobenzene (s)	14.269	95	181545	56.02	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 112.04%			
Target Compounds						Qvalue
30) methyl tert butyl ether	7.154	73	9958m	1.21	ug/L	
65) benzene	9.566	78	2436	0.22	ug/L	86
105) isopropylbenzene	14.080	105	4071	0.35	ug/L	91
117) tert-butylbenzene	14.977	119	2413	0.29	ug/L	95
120) sec-butylbenzene	15.187	105	31171	2.43	ug/L	97

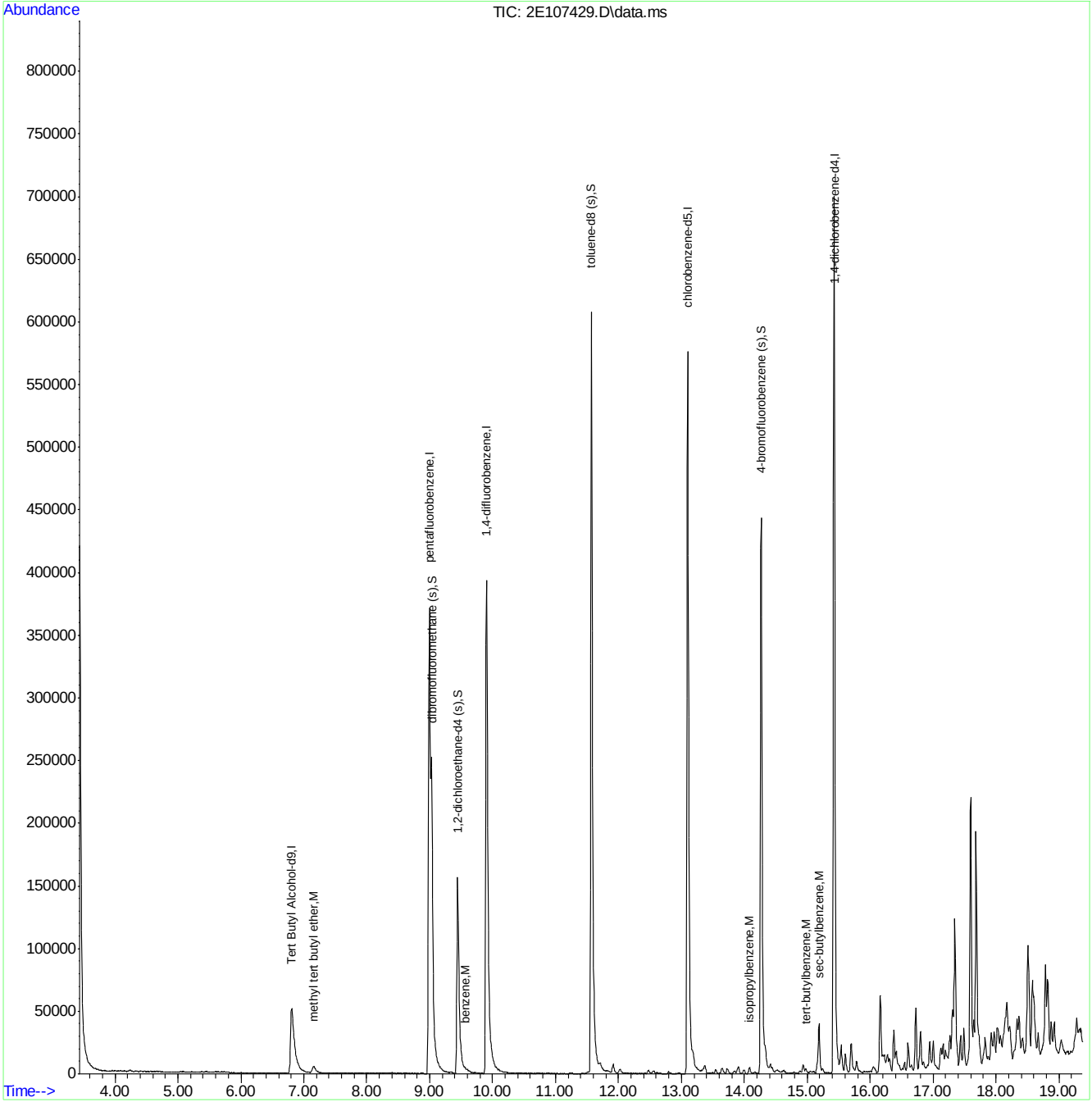
(#) = qualifier out of range (m) = manual integration (+) = signals summed

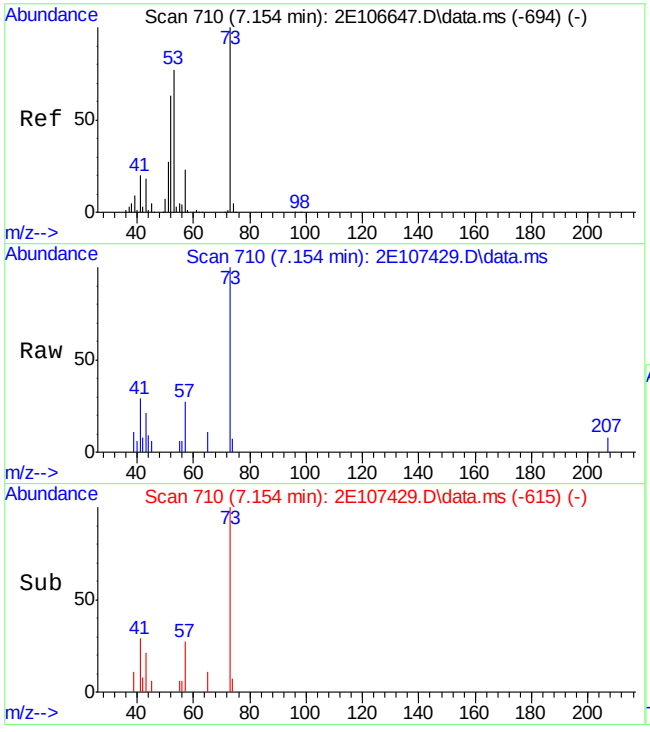
7.1.4
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107429.D
Acq On : 21 Oct 2014 5:41 am
Operator : DIXITAR
Sample : jb79217-4
Misc : MS75578,V2E4806,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Oct 22 15:14:48 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

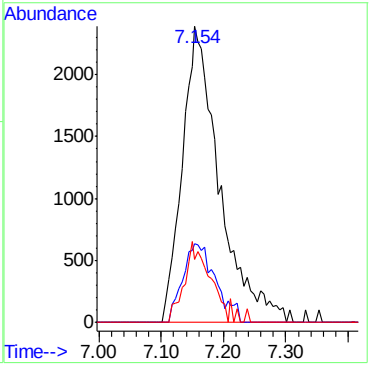


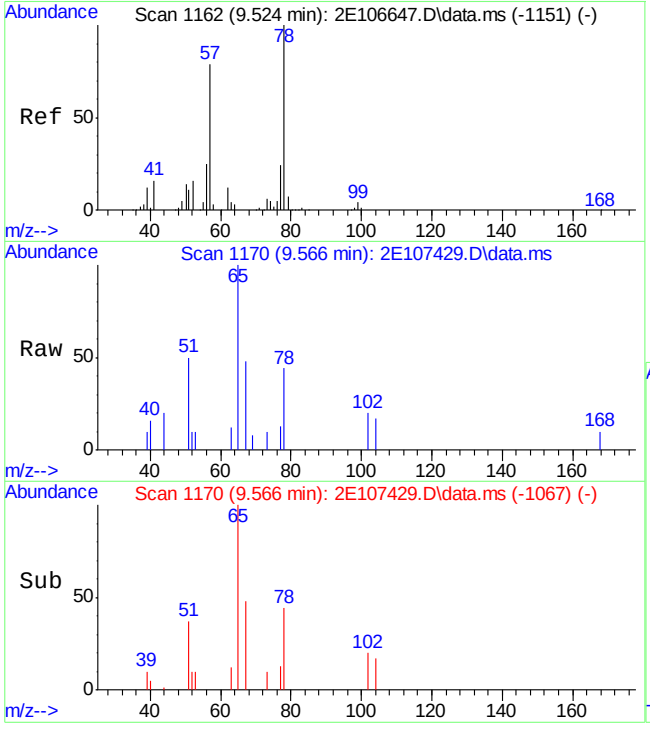


#30
methyl tert butyl ether
Concen: 1.21 ug/L m
RT: 7.154 min Scan# 710
Delta R.T. 0.000 min
Lab File: 2E107429.D
Acq: 21 Oct 2014 5:41 am

Tgt Ion: 73 Resp: 9958

Ion	Ratio	Lower	Upper
73	100		
57	26.6	0.0	53.5
43	21.4	0.0	48.6

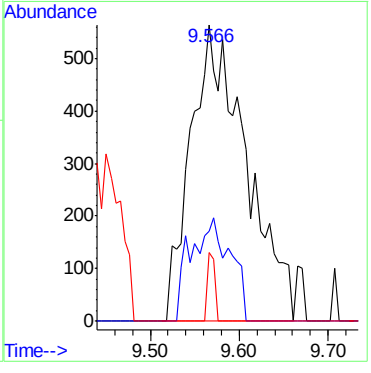


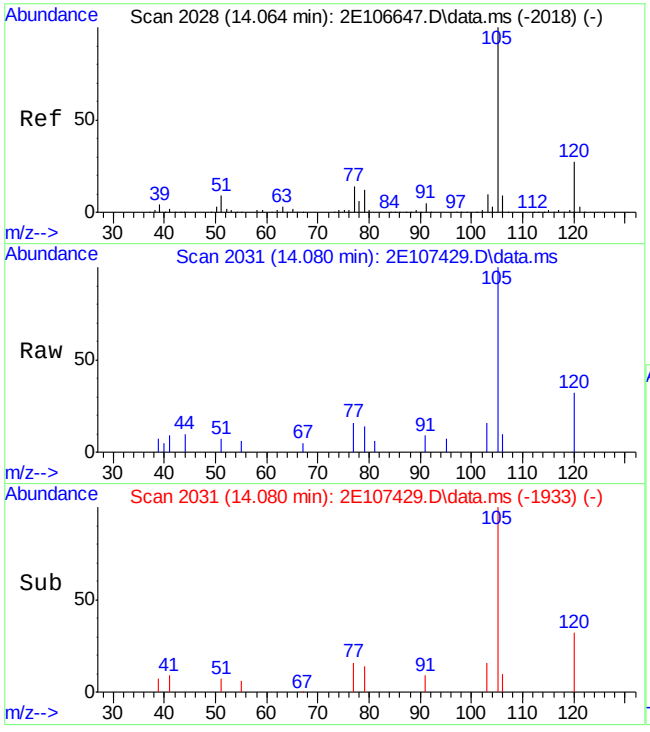


#65
benzene
Concen: 0.22 ug/L
RT: 9.566 min Scan# 1170
Delta R.T. 0.042 min
Lab File: 2E107429.D
Acq: 21 Oct 2014 5:41 am

Tgt Ion: 78 Resp: 2436

Ion	Ratio	Lower	Upper
78	100		
77	30.1	0.0	54.0
52	23.0	0.0	46.4

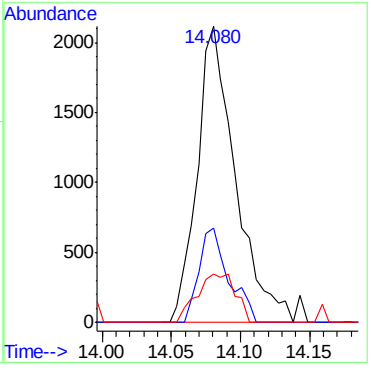


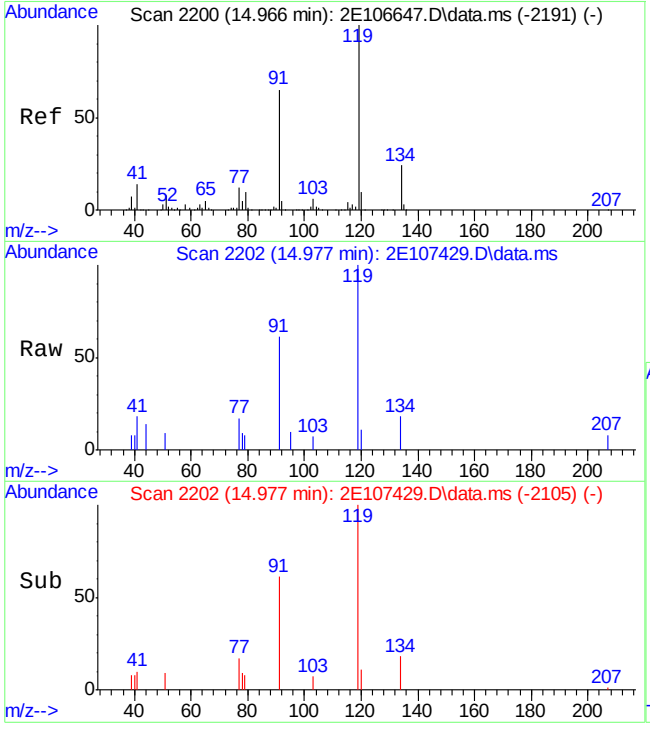


#105
isopropylbenzene
Concen: 0.35 ug/L
RT: 14.080 min Scan# 2031
Delta R.T. 0.016 min
Lab File: 2E107429.D
Acq: 21 Oct 2014 5:41 am

Tgt Ion:105 Resp: 4071

Ion	Ratio	Lower	Upper
105	100		
120	31.9	0.0	56.7
77	16.4	0.0	44.0

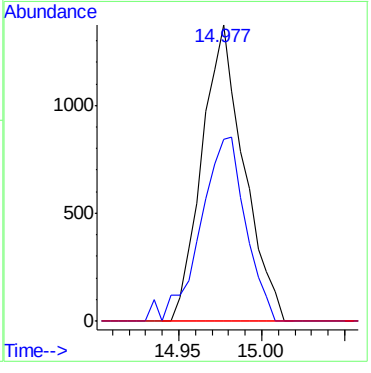


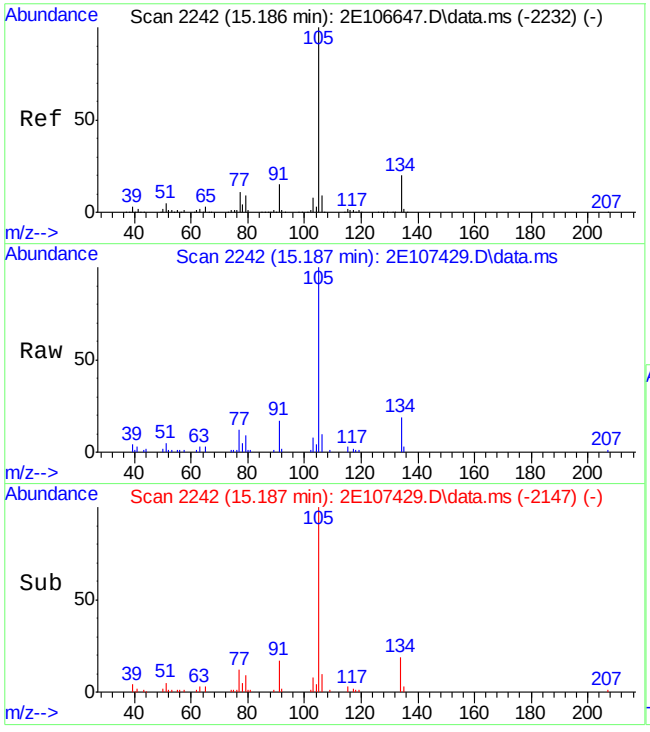


#117
tert-butylbenzene
Concen: 0.29 ug/L
RT: 14.977 min Scan# 2202
Delta R.T. 0.011 min
Lab File: 2E107429.D
Acq: 21 Oct 2014 5:41 am

Tgt Ion:119 Resp: 2413

Ion	Ratio	Lower	Upper
119	100		
91	61.5	34.9	94.9
117	0.0	0.0	33.0

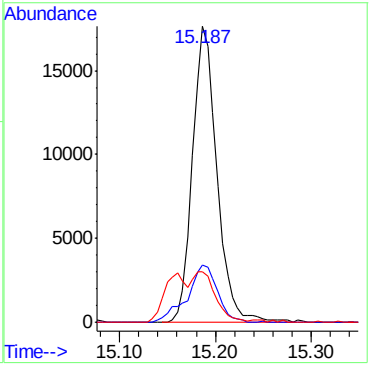




#120
sec-butylbenzene
Concen: 2.43 ug/L
RT: 15.187 min Scan# 2242
Delta R.T. 0.000 min
Lab File: 2E107429.D
Acq: 21 Oct 2014 5:41 am

Tgt Ion:105 Resp: 31171

Ion	Ratio	Lower	Upper
105	100		
134	19.5	0.0	50.1
91	17.2	0.0	44.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107430.D
Acq On : 21 Oct 2014 6:10 am
Operator : DIXITAR
Sample : jb79217-5
Misc : MS75578,V2E4806,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 24 09:09:51 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

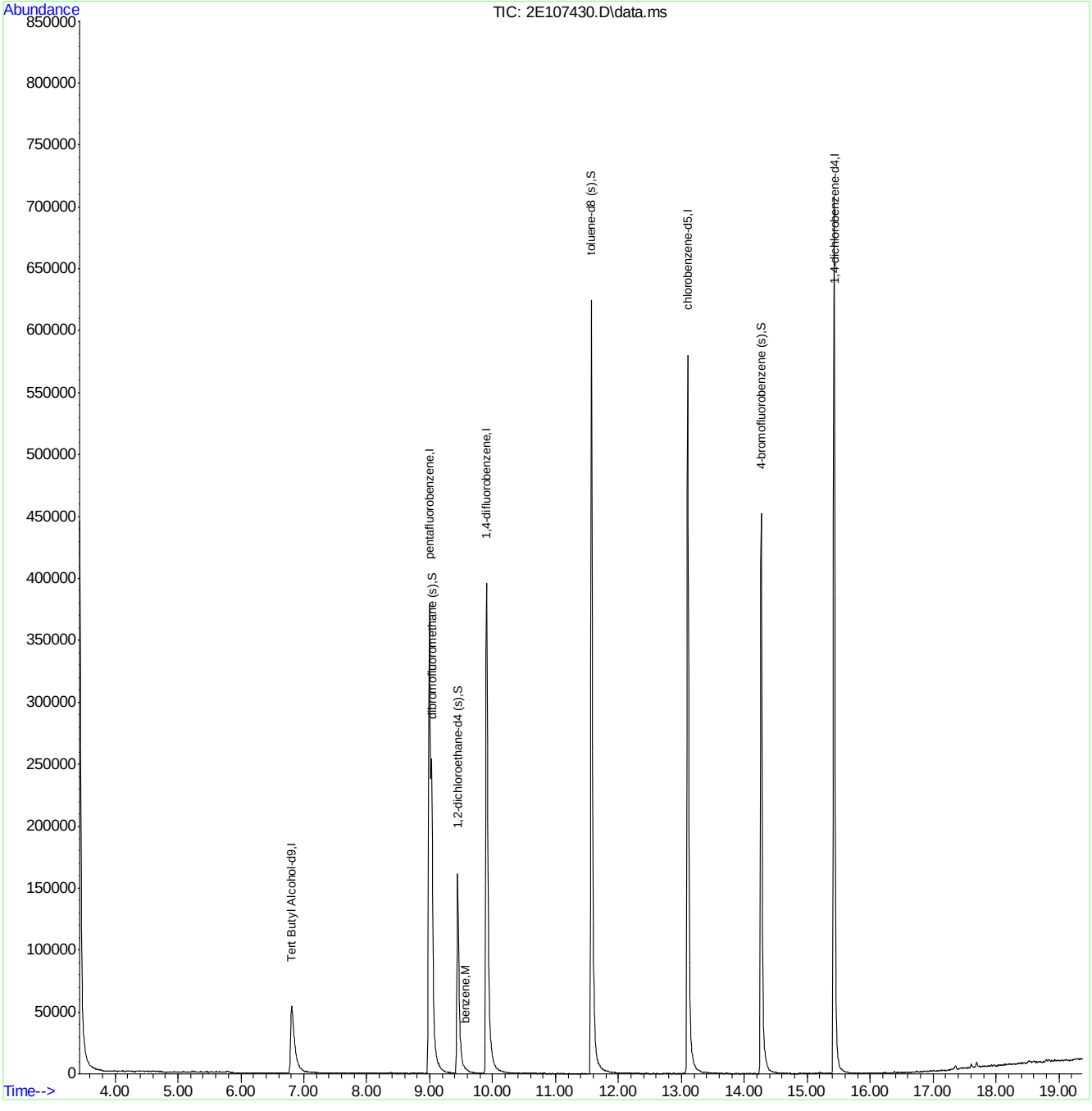
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.808	65	151543	500.00	ug/L	-0.02
5) pentafluorobenzene	8.994	168	370939	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.901	114	448013	50.00	ug/L	-0.01
88) chlorobenzene-d5	13.100	117	386040	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	198942	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	130958	58.03	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 116.06%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	140530	58.26	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 116.52%			
80) toluene-d8 (s)	11.569	98	517266	57.80	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 115.60%			
106) 4-bromofluorobenzene (s)	14.269	95	182959	55.70	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 111.40%			
Target Compounds						Qvalue
65) benzene	9.561	78	2474	0.22	ug/L	82

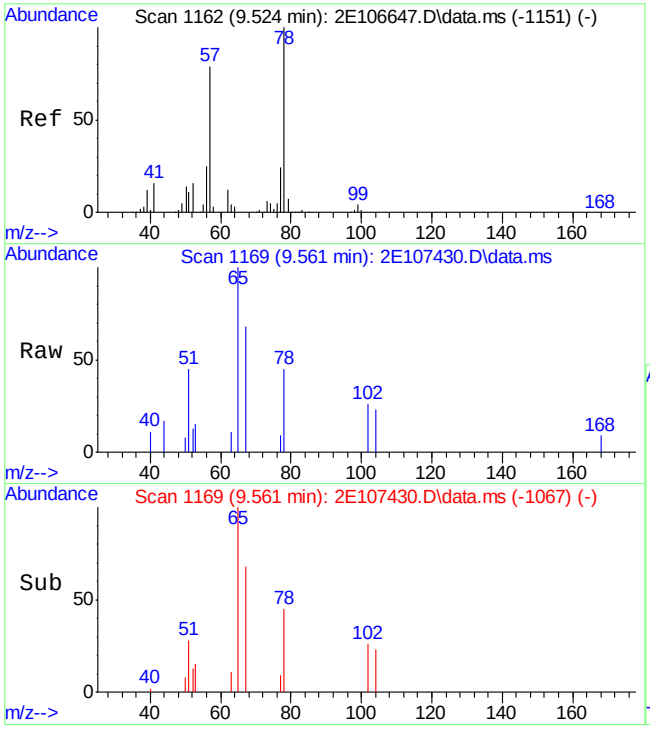
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107430.D
Acq On : 21 Oct 2014 6:10 am
Operator : DIXITAR
Sample : jb79217-5
Misc : MS75578,V2E4806,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 24 09:09:51 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

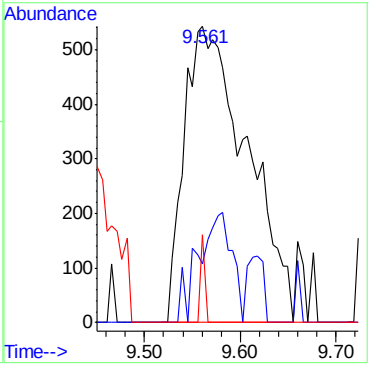




#65
benzene
Concen: 0.22 ug/L
RT: 9.561 min Scan# 1169
Delta R.T. 0.037 min
Lab File: 2E107430.D
Acq: 21 Oct 2014 6:10 am

Tgt Ion: 78 Resp: 2474

Ion	Ratio	Lower	Upper
78	100		
77	19.9	0.0	54.0
52	29.7	0.0	46.4



7.1.5

7

Manual Integrations APPROVED (compounds with "m" flag)
Mei Chen
10/28/14 14:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4803\
Data File : 2E107313.D
Acq On : 17 Oct 2014 5:32 pm
Operator : DIXITAR
Sample : jb79217-6
Misc : MS75578,V2E4803,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 28 13:32:23 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

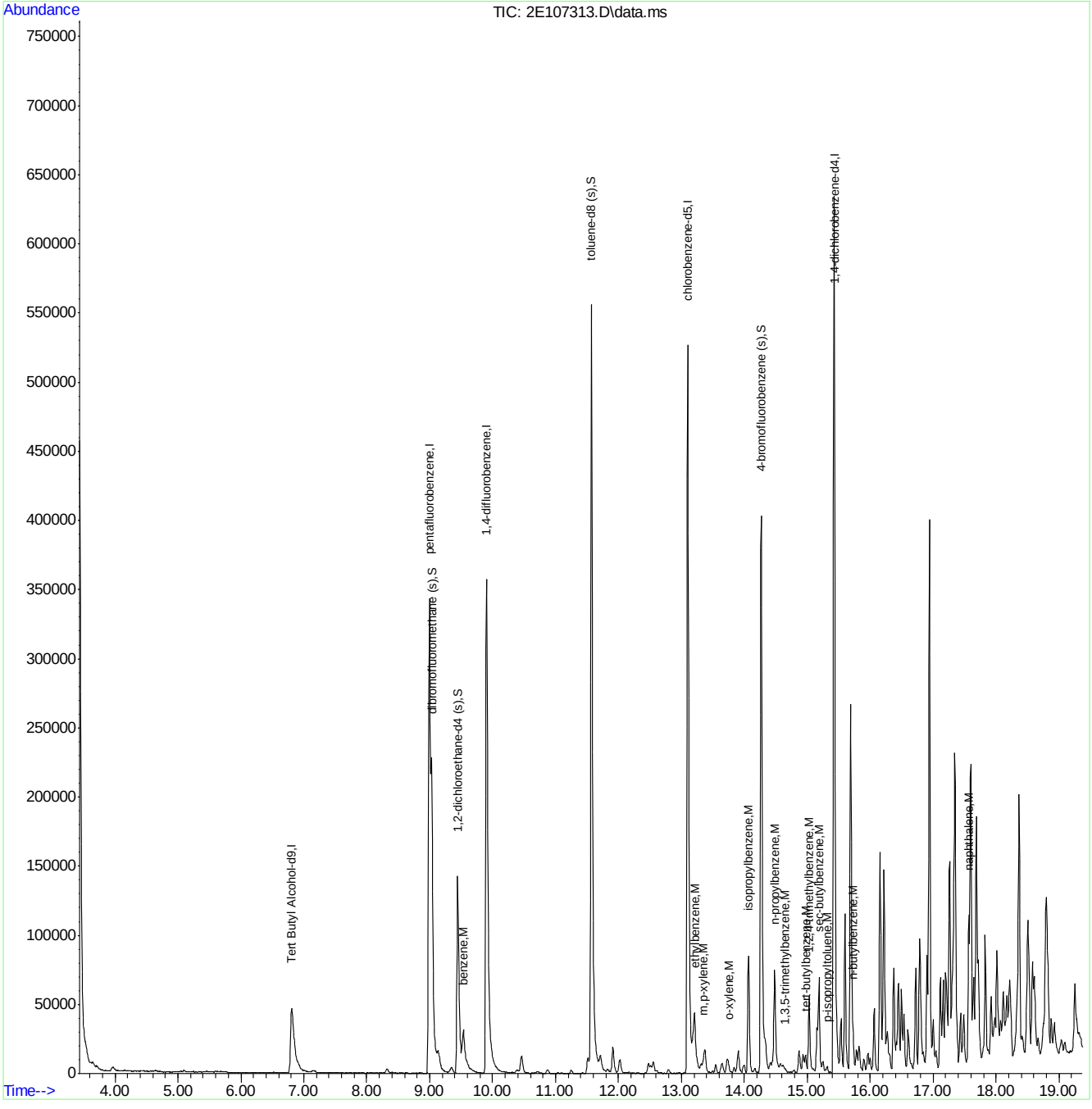
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.808	65	128826	500.00	ug/L	-0.02
5) pentafluorobenzene	8.994	168	342929	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.901	114	409960	50.00	ug/L	-0.01
88) chlorobenzene-d5	13.100	117	348130	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.427	152	184091	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	118937	57.01	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 114.02%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	123675	55.46	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.92%			
80) toluene-d8 (s)	11.569	98	468384	57.19	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 114.38%			
106) 4-bromofluorobenzene (s)	14.269	95	166667	54.83	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 109.66%			
Target Compounds						Qvalue
65) benzene	9.534	78	35475	3.50	ug/L	99
98) ethylbenzene	13.210	91	37998	3.42	ug/L	99
99) m,p-xylene	13.346	106	2623m	0.60	ug/L	
100) o-xylene	13.750	106	1617	0.36	ug/L	99
105) isopropylbenzene	14.064	105	66704	6.11	ug/L	97
112) n-propylbenzene	14.478	91	76250	6.37	ug/L	100
116) 1,3,5-trimethylbenzene	14.652	105	1834	0.20	ug/L	81
117) tert-butylbenzene	14.977	119	7266	0.94	ug/L	89
119) 1,2,4-trimethylbenzene	15.029	105	36454	4.17	ug/L	95
120) sec-butylbenzene	15.186	105	53841	4.47	ug/L	98
122) p-isopropyltoluene	15.317	119	2771	0.28	ug/L	85
127) n-butylbenzene	15.726	92	9978	1.96	ug/L	95
133) naphthalene	17.567	128	92809	10.18	ug/L	100

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

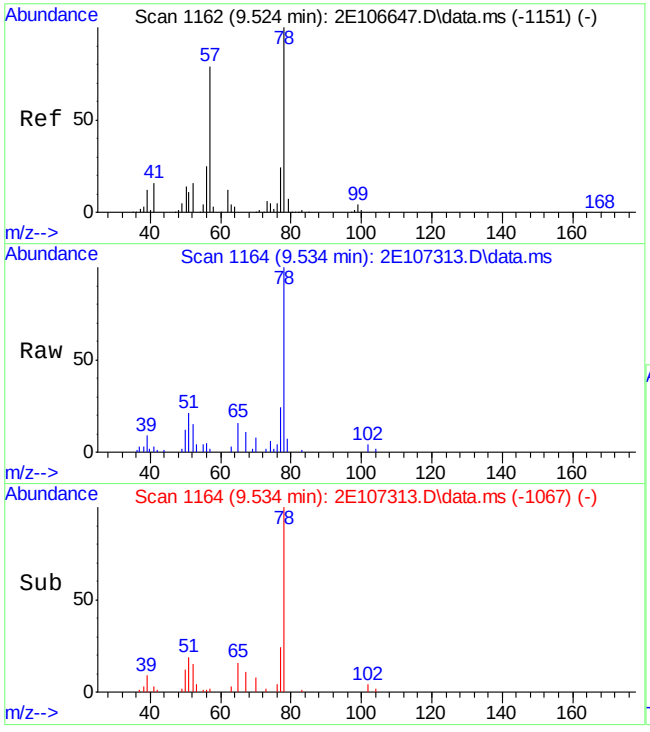
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4803\
Data File : 2E107313.D
Acq On : 17 Oct 2014 5:32 pm
Operator : DIXITAR
Sample : jb79217-6
Misc : MS75578,V2E4803,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 28 13:32:23 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



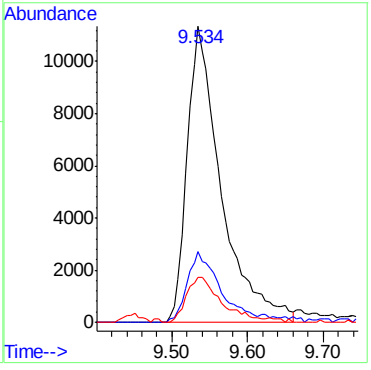
M2E4774.M Tue Oct 28 13:32:38 2014 ACCNJ Page: 2

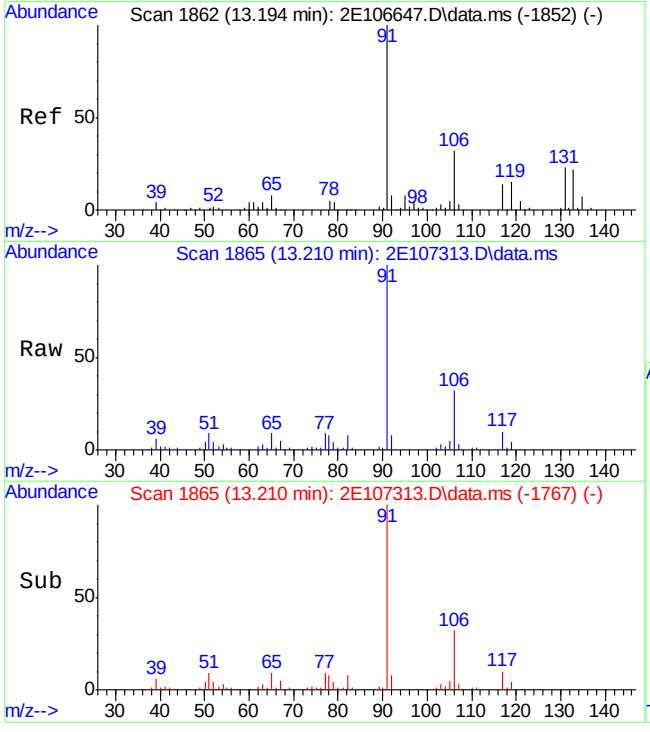


#65
benzene
Concen: 3.50 ug/L
RT: 9.534 min Scan# 1164
Delta R.T. 0.010 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion: 78 Resp: 35475

Ion	Ratio	Lower	Upper
78	100		
77	24.0	0.0	54.0
52	15.2	0.0	46.4

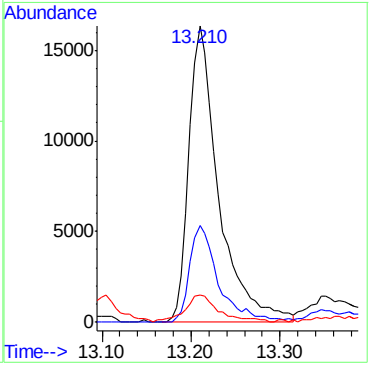


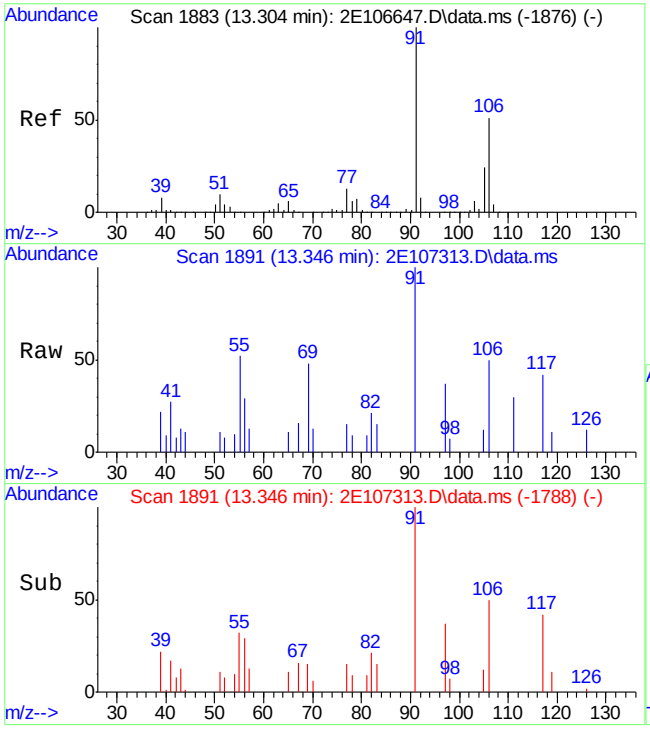


#98
ethylbenzene
Concen: 3.42 ug/L
RT: 13.210 min Scan# 1865
Delta R.T. 0.016 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion: 91 Resp: 37998

Ion	Ratio	Lower	Upper
91	100		
106	32.5	1.8	61.8
77	8.4	0.0	38.5

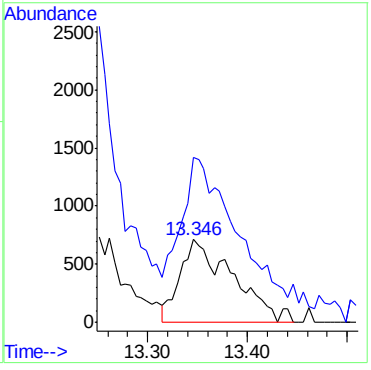


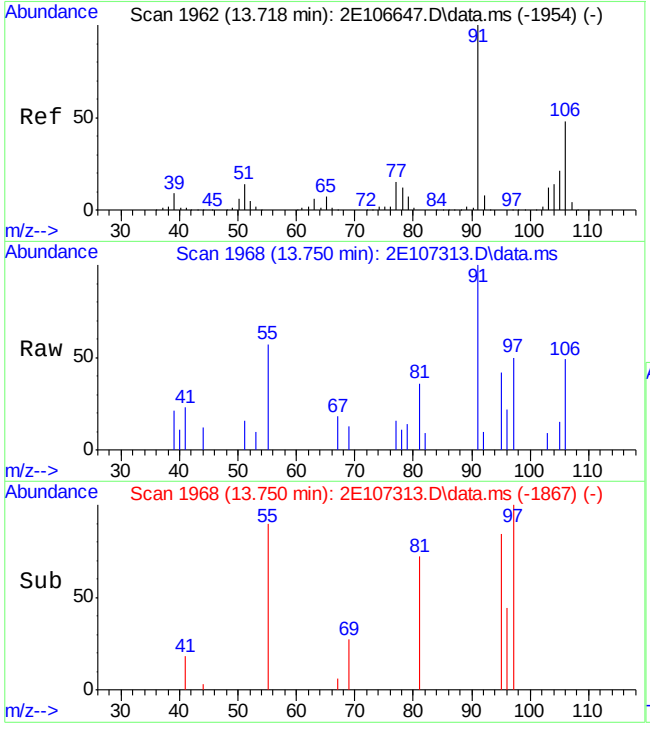


#99
m,p-xylene
Concen: 0.60 ug/L m
RT: 13.346 min Scan# 1891
Delta R.T. 0.042 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion:106 Resp: 2623

Ion	Ratio	Lower	Upper
106	100		
91	199.4	137.1	254.7

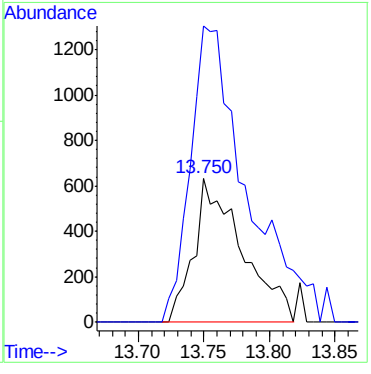


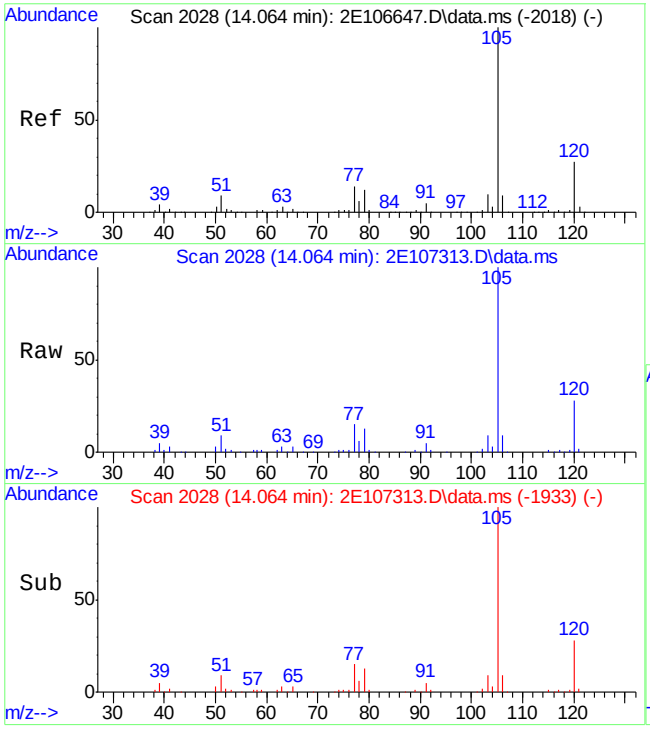


#100
o-xylene
Concen: 0.36 ug/L
RT: 13.750 min Scan# 1968
Delta R.T. 0.031 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion:106 Resp: 1617

Ion	Ratio	Lower	Upper
106	100		
91	205.7	145.5	270.1

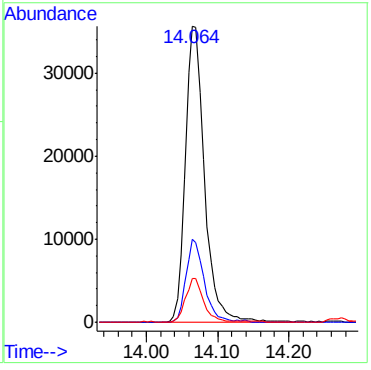


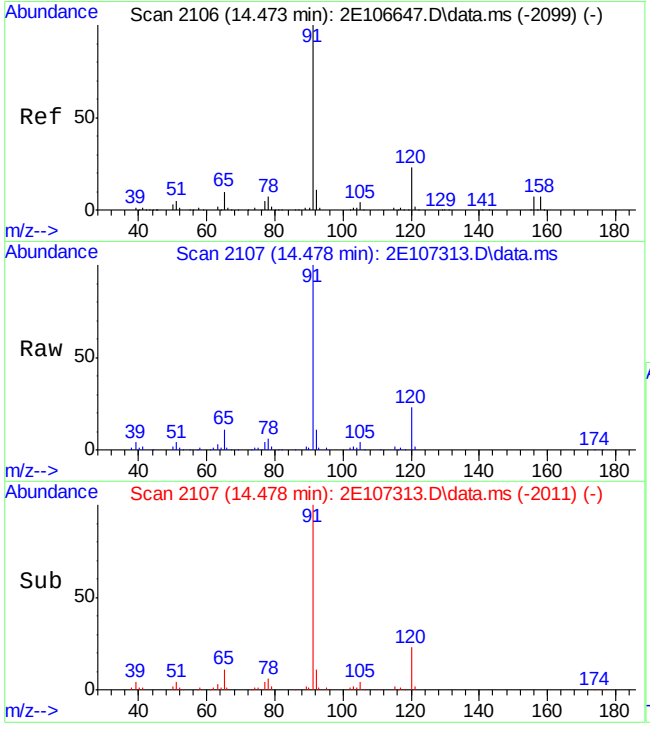


#105
isopropylbenzene
Concen: 6.11 ug/L
RT: 14.064 min Scan# 2028
Delta R.T. -0.000 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion:105 Resp: 66704

Ion	Ratio	Lower	Upper
105	100		
120	28.2	0.0	56.7
77	14.8	0.0	44.0

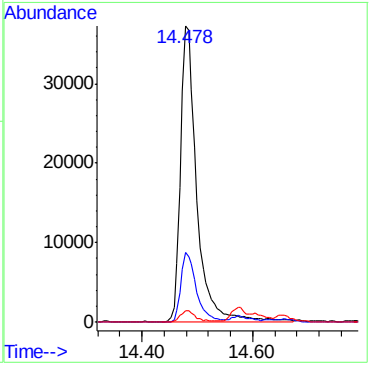


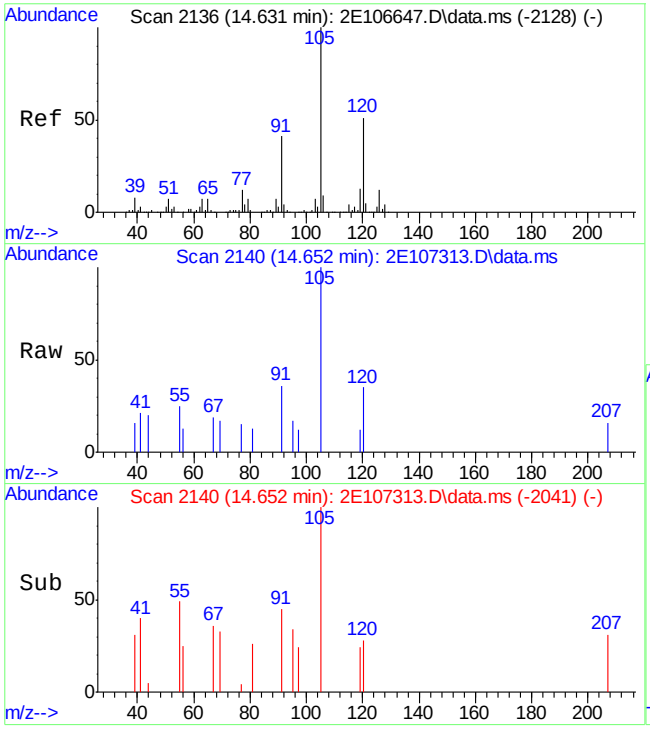


#112
n-propylbenzene
Concen: 6.37 ug/L
RT: 14.478 min Scan# 2107
Delta R.T. 0.005 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion: 91 Resp: 76250

Ion	Ratio	Lower	Upper
91	100		
120	23.4	0.0	53.4
105	3.7	0.0	33.7

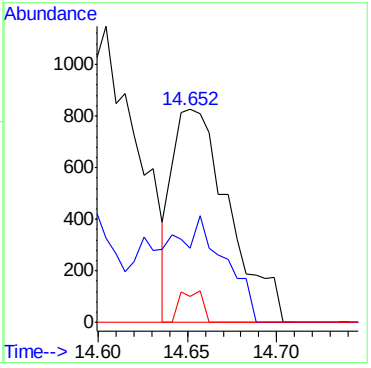


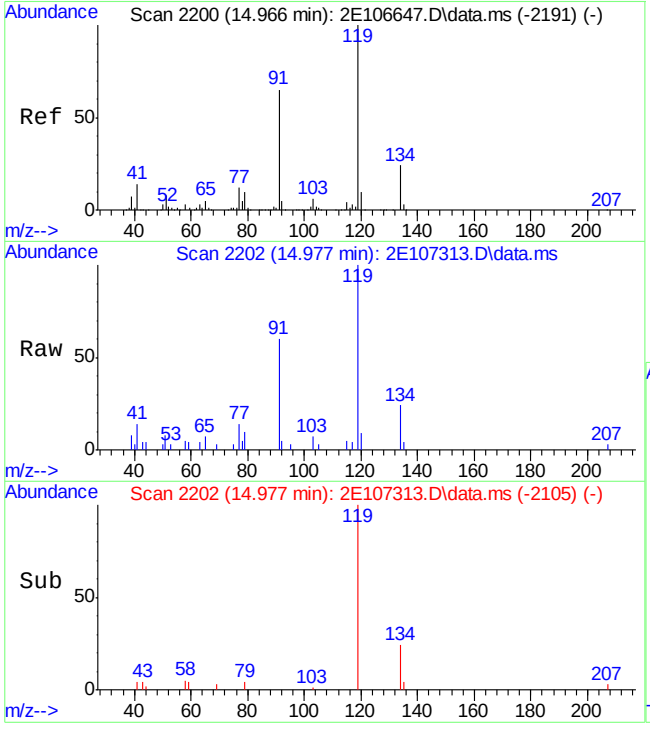


#116
1,3,5-trimethylbenzene
Concen: 0.20 ug/L
RT: 14.652 min Scan# 2140
Delta R.T. 0.021 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion:105 Resp: 1834

Ion	Ratio	Lower	Upper
105	100		
120	34.9	21.1	81.1
119	12.2	0.0	42.8

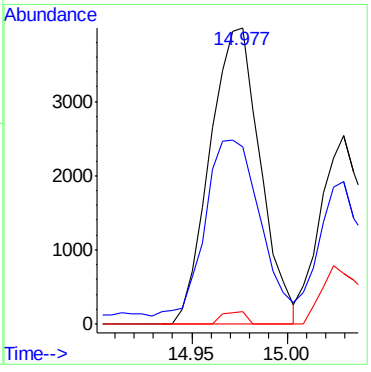


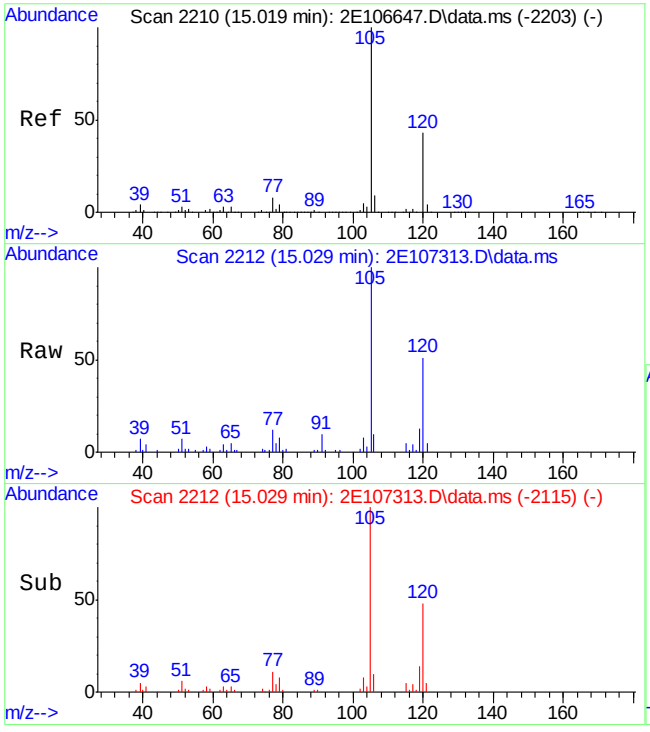


#117
tert-butylbenzene
Concen: 0.94 ug/L
RT: 14.977 min Scan# 2202
Delta R.T. 0.010 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion:119 Resp: 7266

Ion	Ratio	Lower	Upper
119	100		
91	55.6	34.9	94.9
117	4.1	0.0	33.0

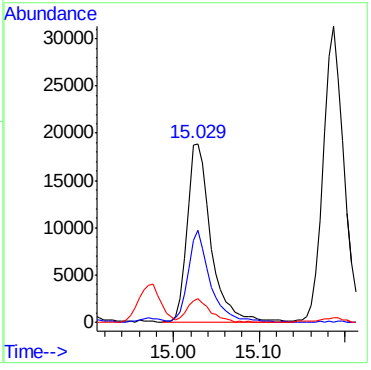


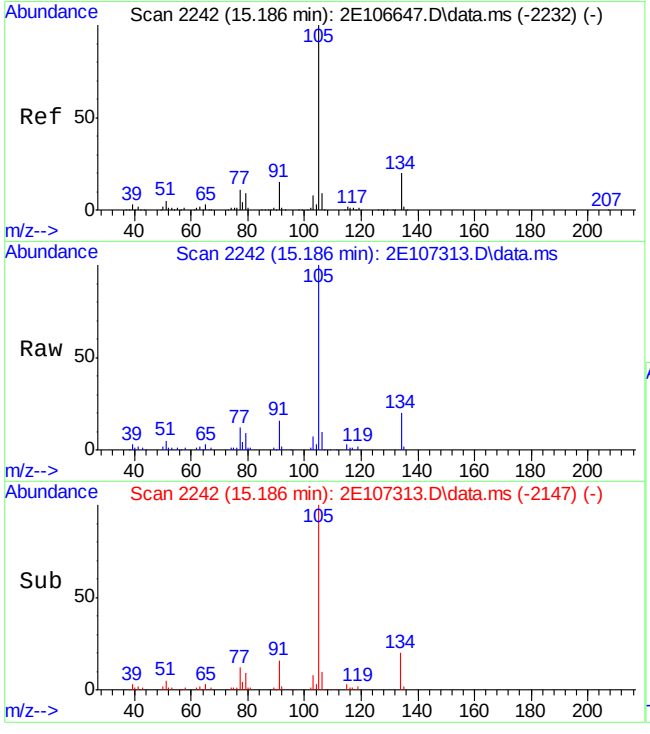


#119
1,2,4-trimethylbenzene
Concen: 4.17 ug/L
RT: 15.029 min Scan# 2212
Delta R.T. 0.011 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion:105 Resp: 36454

Ion	Ratio	Lower	Upper
105	100		
120	51.4	16.9	76.9
119	13.5	0.0	43.0

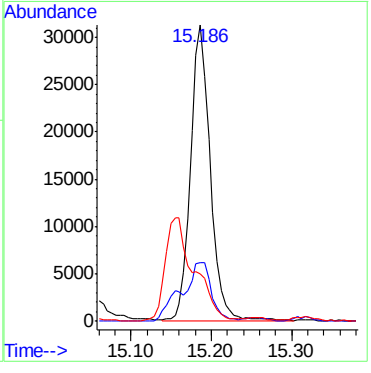


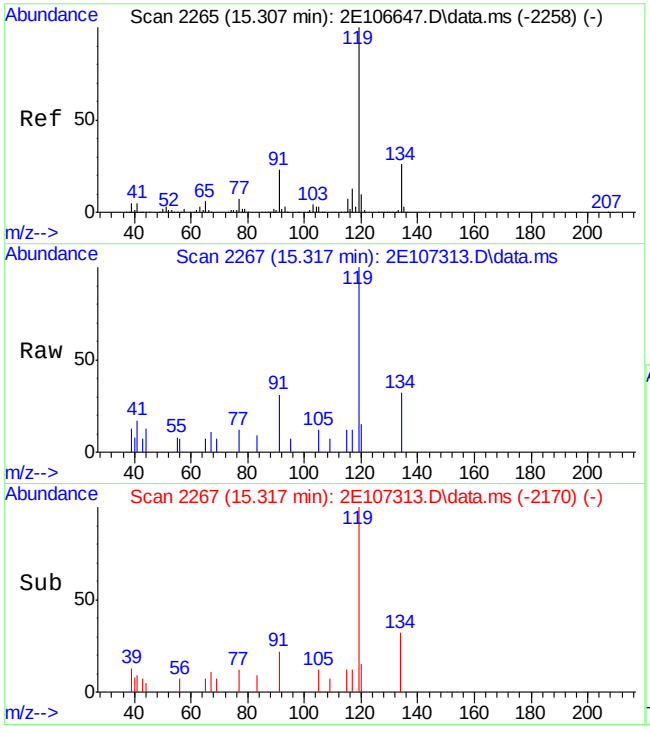


#120
sec-butylbenzene
Concen: 4.47 ug/L
RT: 15.186 min Scan# 2242
Delta R.T. -0.000 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion:105 Resp: 53841

Ion	Ratio	Lower	Upper
105	100		
134	18.8	0.0	50.1
91	15.0	0.0	44.7

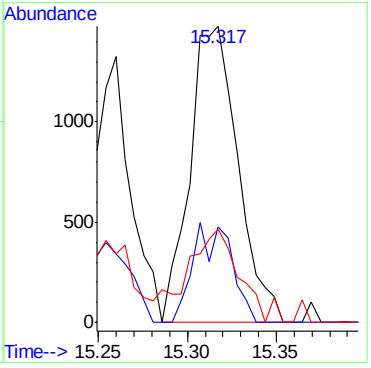


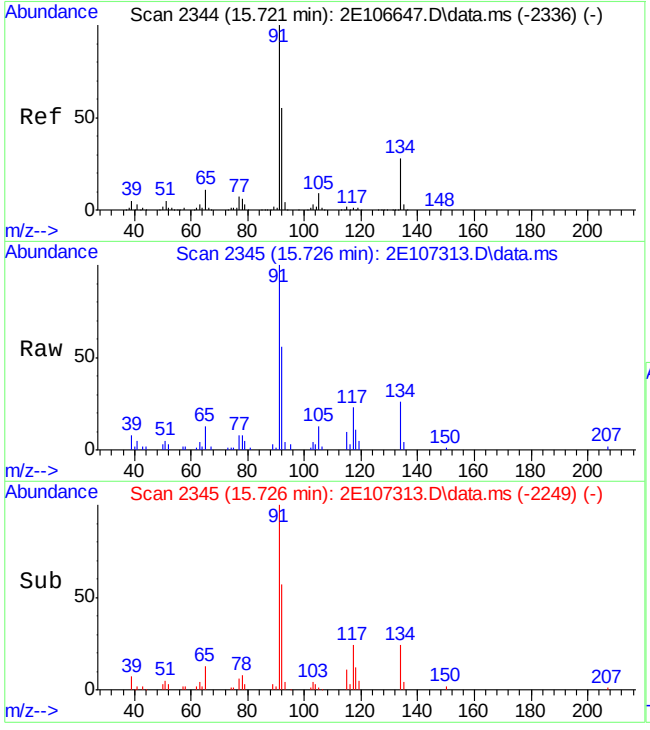


#122
p-isopropyltoluene
Concen: 0.28 ug/L
RT: 15.317 min Scan# 2267
Delta R.T. 0.010 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion:119 Resp: 2771

Ion	Ratio	Lower	Upper
119	100		
134	32.3	0.0	55.9
91	31.4	0.0	52.6

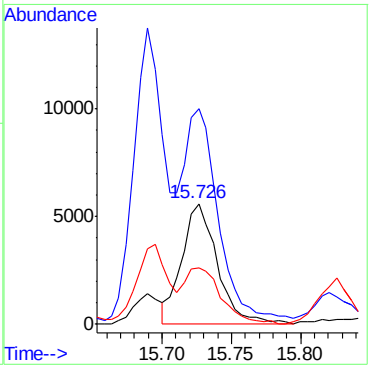


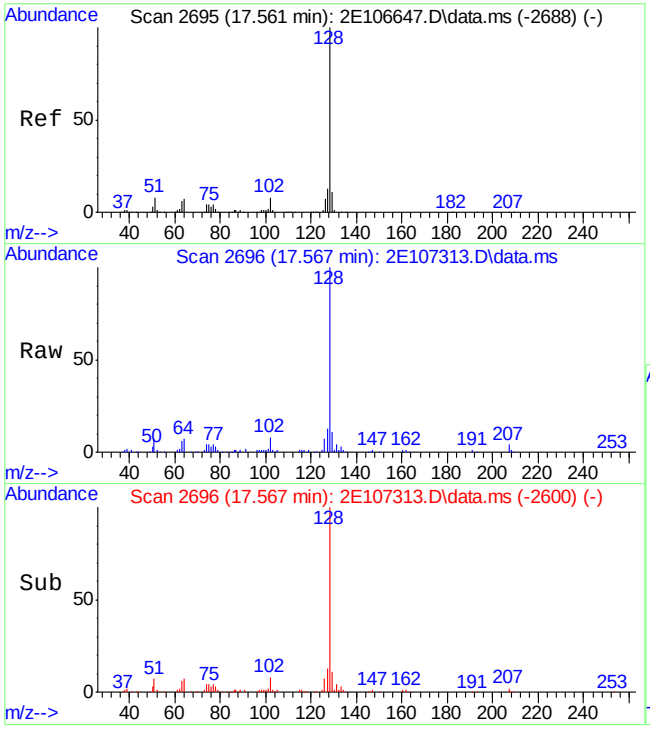


#127
n-butylbenzene
Concen: 1.96 ug/L
RT: 15.726 min Scan# 2345
Delta R.T. 0.005 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion: 92 Resp: 9978

Ion	Ratio	Lower	Upper
92	100		
91	174.5	150.8	210.8
134	45.1	19.8	79.8

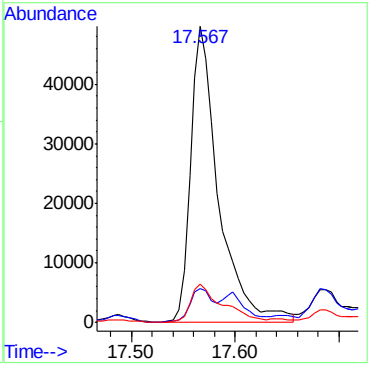




#133
naphthalene
Concen: 10.18 ug/L
RT: 17.567 min Scan# 2696
Delta R.T. 0.005 min
Lab File: 2E107313.D
Acq: 17 Oct 2014 5:32 pm

Tgt Ion:128 Resp: 92809

Ion	Ratio	Lower	Upper
128	100		
129	11.3	0.0	41.0
127	12.8	0.0	42.8



7.1.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107478.D
Acq On : 22 Oct 2014 1:17 pm
Operator : DIXITAR
Sample : jb79217-7
Misc : MS75578,V2E4808,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 16:18:26 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

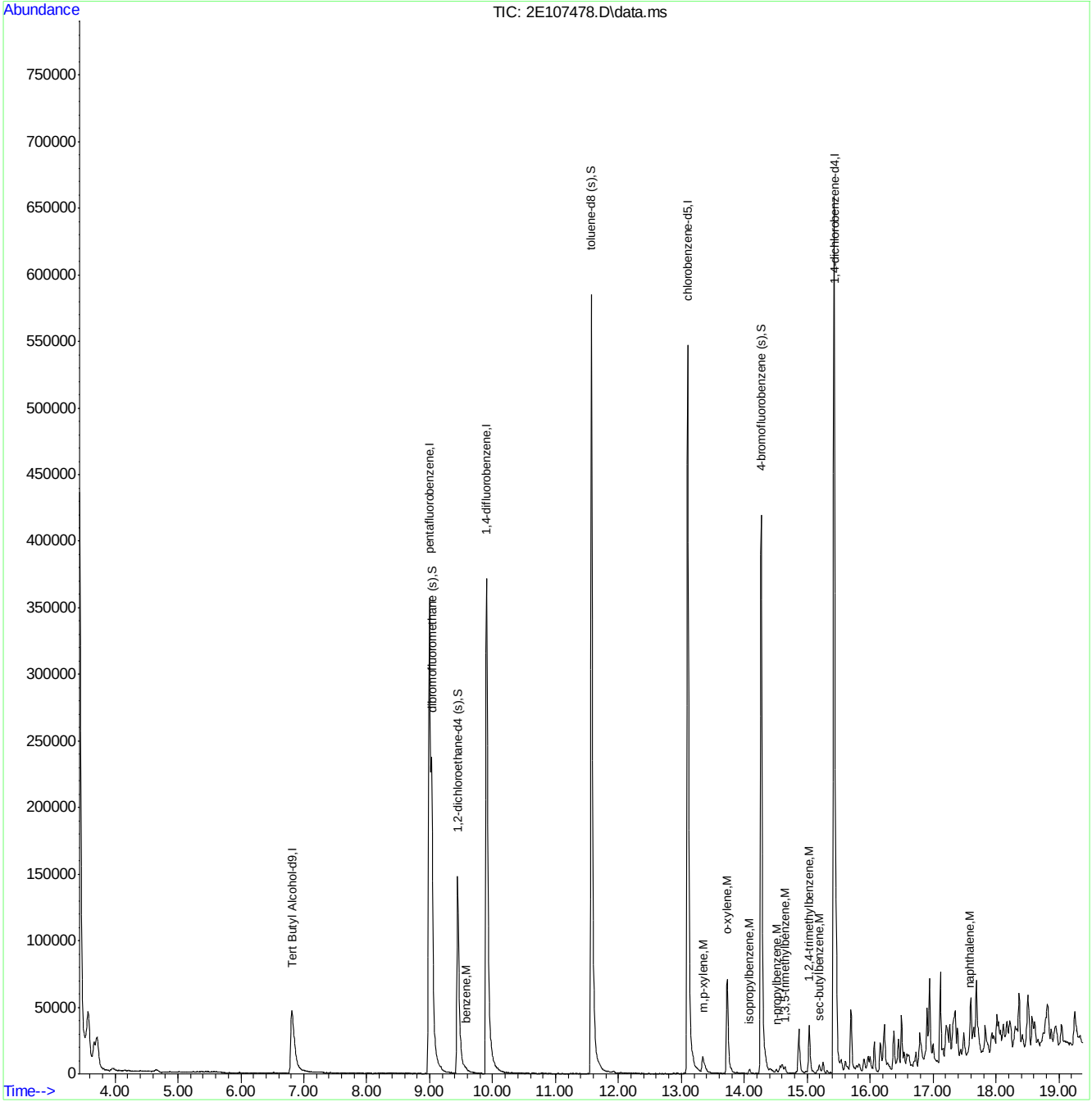
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.818	65	132906	500.00	ug/L	0.00
5) pentafluorobenzene	8.994	168	355035	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.901	114	420902	50.00	ug/L	-0.01
88) chlorobenzene-d5	13.100	117	361389	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.427	152	188681	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	123639	57.24	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 114.48%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	131931	57.15	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.30%			
80) toluene-d8 (s)	11.569	98	491054	58.40	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 116.80%			
106) 4-bromofluorobenzene (s)	14.269	95	172693	55.43	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 110.86%			
Target Compounds						Qvalue
65) benzene	9.576	78	3969	0.38	ug/L	94
99) m,p-xylene	13.341	106	6959	1.55	ug/L	88
100) o-xylene	13.729	106	26592	5.71	ug/L	100
105) isopropylbenzene	14.080	105	2987	0.27	ug/L	97
112) n-propylbenzene	14.515	91	2633	0.21	ug/L	97
116) 1,3,5-trimethylbenzene	14.646	105	4194	0.44	ug/L	88
119) 1,2,4-trimethylbenzene	15.029	105	25888	2.89	ug/L	96
120) sec-butylbenzene	15.192	105	4908	0.40	ug/L	77
133) naphthalene	17.582	128	11533	1.23	ug/L	92

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

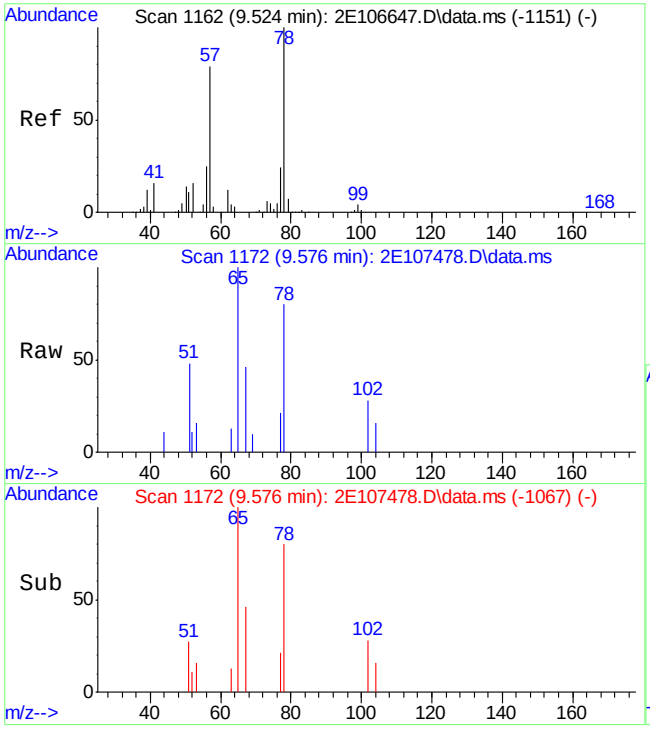
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107478.D
Acq On : 22 Oct 2014 1:17 pm
Operator : DIXITAR
Sample : jb79217-7
Misc : MS75578,V2E4808,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 16:18:26 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



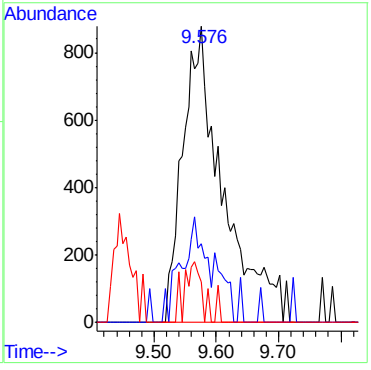
M2E4774.M Thu Oct 23 16:39:10 2014 ACCNJ Page: 2

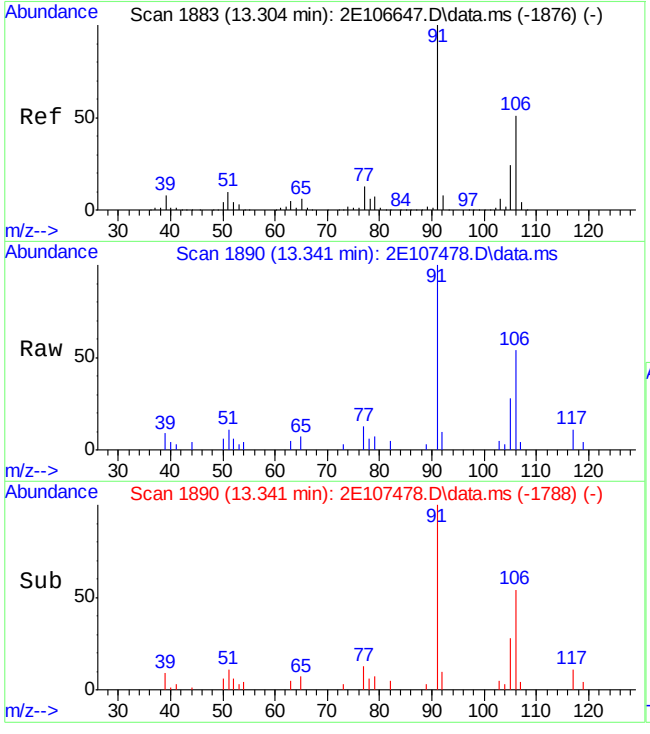


#65
benzene
Concen: 0.38 ug/L
RT: 9.576 min Scan# 1172
Delta R.T. 0.052 min
Lab File: 2E107478.D
Acq: 22 Oct 2014 1:17 pm

Tgt Ion: 78 Resp: 3969

Ion	Ratio	Lower	Upper
78	100		
77	26.4	0.0	54.0
52	13.7	0.0	46.4

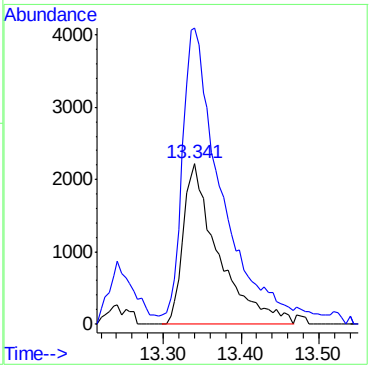


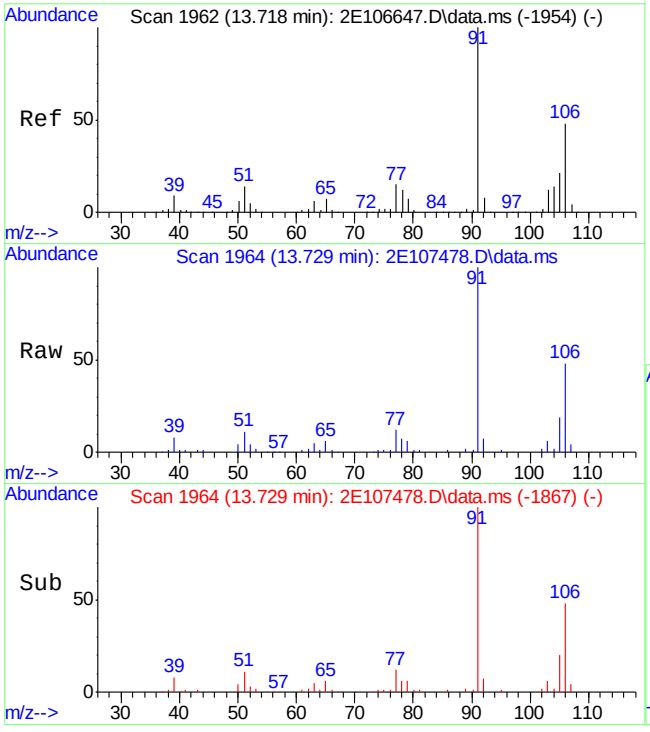


#99
m,p-xylene
Concen: 1.55 ug/L
RT: 13.341 min Scan# 1890
Delta R.T. 0.037 min
Lab File: 2E107478.D
Acq: 22 Oct 2014 1:17 pm

Tgt Ion:106 Resp: 6959

Ion	Ratio	Lower	Upper
106	100		
91	178.3	137.1	254.7

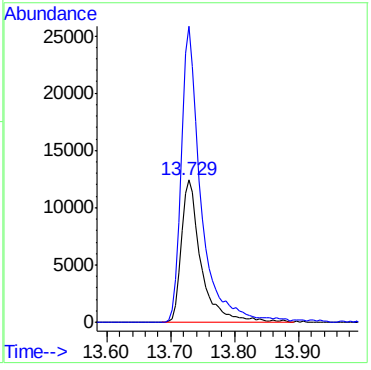


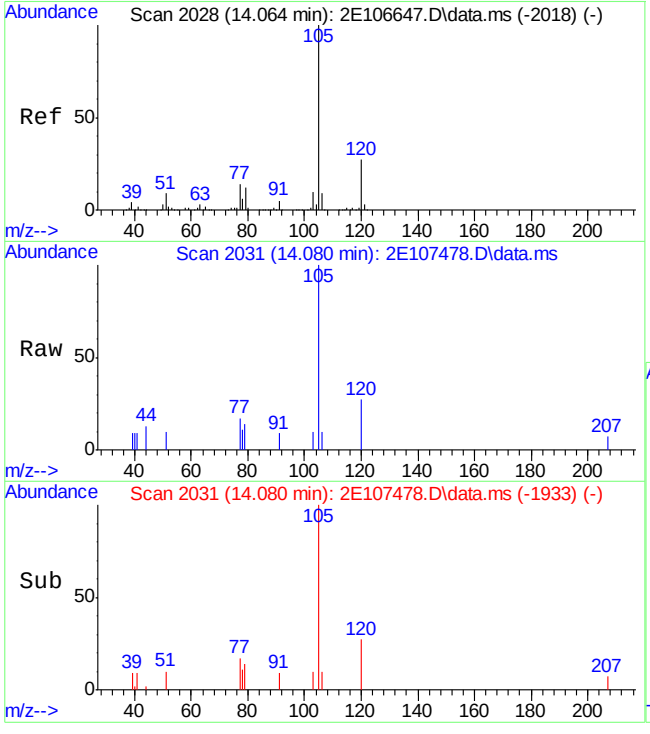


#100
o-xylene
Concen: 5.71 ug/L
RT: 13.729 min Scan# 1964
Delta R.T. 0.010 min
Lab File: 2E107478.D
Acq: 22 Oct 2014 1:17 pm

Tgt Ion:106 Resp: 26592

Ion	Ratio	Lower	Upper
106	100		
91	208.2	145.5	270.1

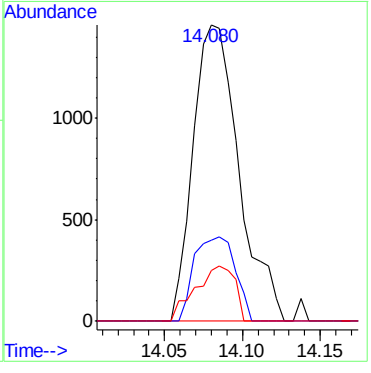


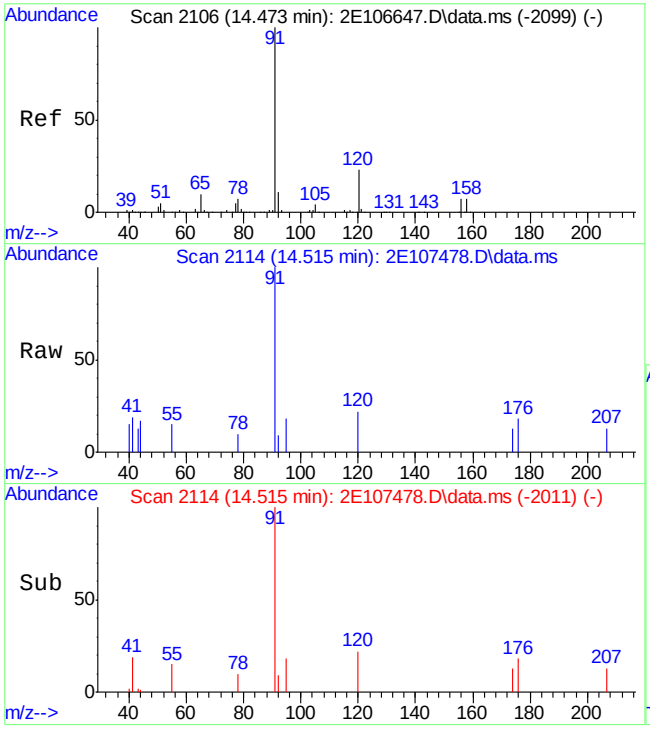


#105
isopropylbenzene
Concen: 0.27 ug/L
RT: 14.080 min Scan# 2031
Delta R.T. 0.016 min
Lab File: 2E107478.D
Acq: 22 Oct 2014 1:17 pm

Tgt Ion:105 Resp: 2987

Ion	Ratio	Lower	Upper
105	100		
120	27.4	0.0	56.7
77	17.0	0.0	44.0

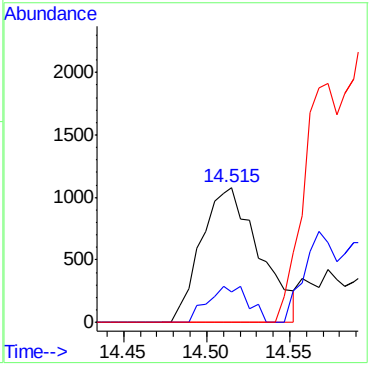


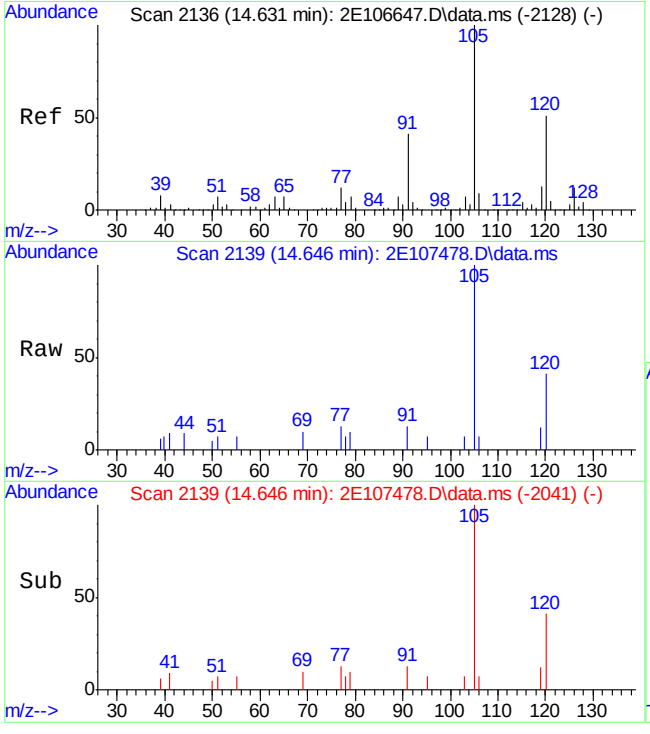


#112
n-propylbenzene
Concen: 0.21 ug/L
RT: 14.515 min Scan# 2114
Delta R.T. 0.042 min
Lab File: 2E107478.D
Acq: 22 Oct 2014 1:17 pm

Tgt Ion: 91 Resp: 2633

Ion	Ratio	Lower	Upper
91	100		
120	22.4	0.0	53.4
105	0.0	0.0	33.7

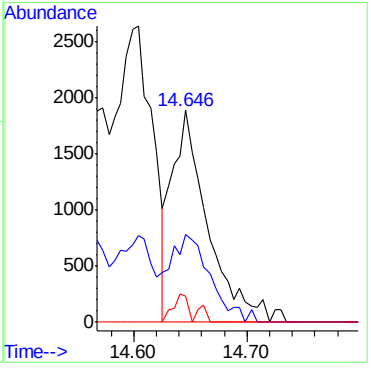




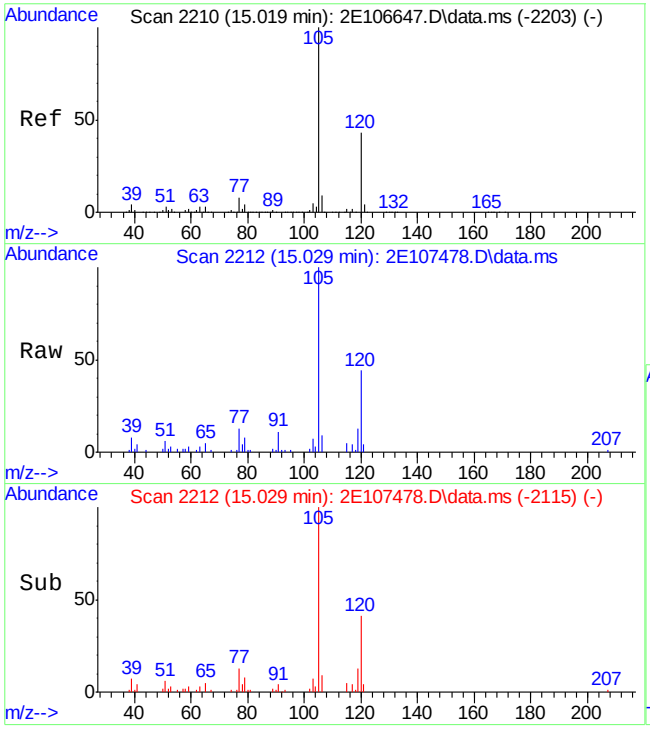
#116
1,3,5-trimethylbenzene
Concen: 0.44 ug/L
RT: 14.646 min Scan# 2139
Delta R.T. 0.016 min
Lab File: 2E107478.D
Acq: 22 Oct 2014 1:17 pm

Tgt Ion:105 Resp: 4194

Ion	Ratio	Lower	Upper
105	100		
120	41.2	21.1	81.1
119	12.2	0.0	42.8



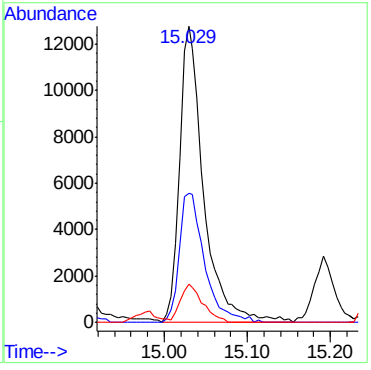
7.1.7

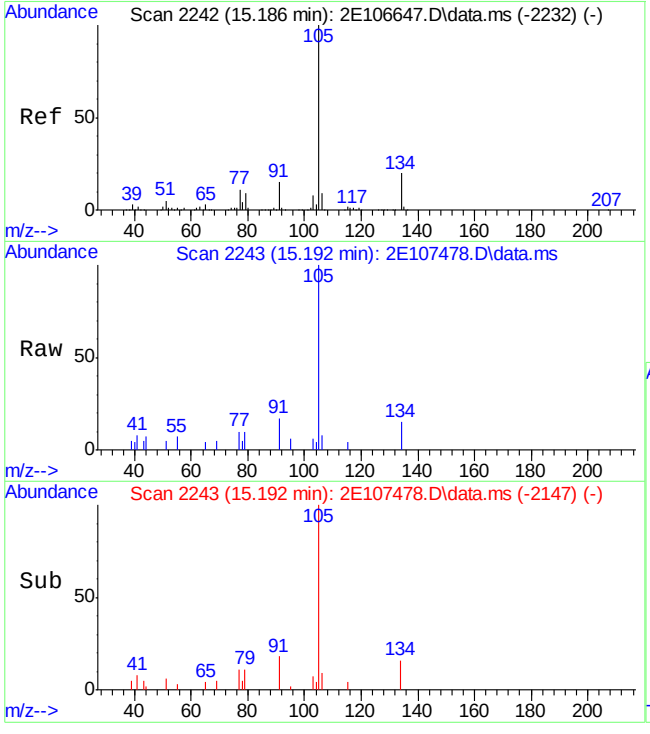


#119
1,2,4-trimethylbenzene
Concen: 2.89 ug/L
RT: 15.029 min Scan# 2212
Delta R.T. 0.011 min
Lab File: 2E107478.D
Acq: 22 Oct 2014 1:17 pm

Tgt Ion:105 Resp: 25888

Ion	Ratio	Lower	Upper
105	100		
120	43.5	16.9	76.9
119	13.0	0.0	43.0

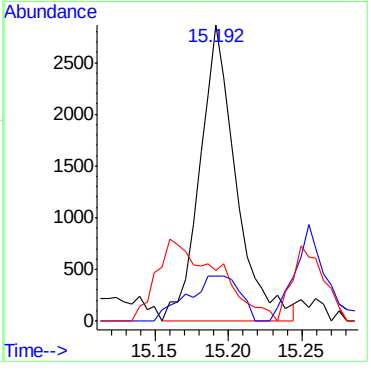


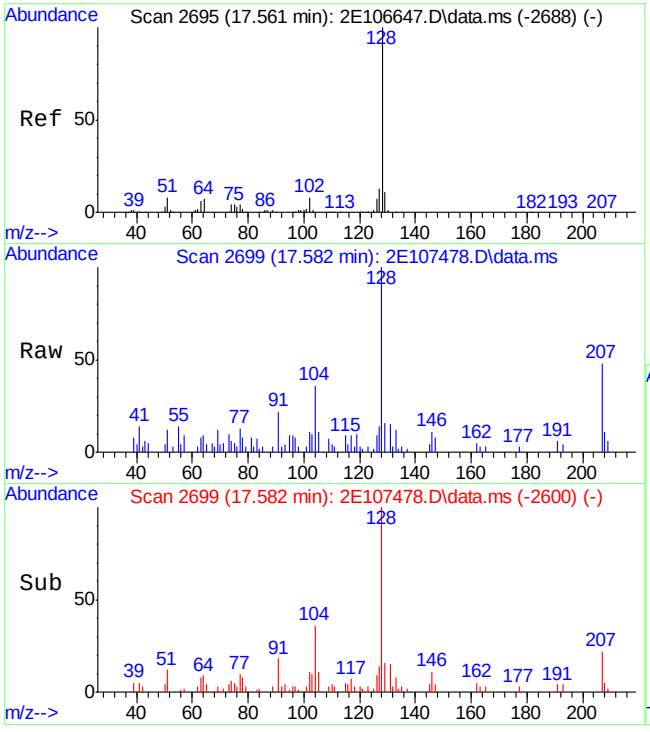


#120
sec-butylbenzene
Concen: 0.40 ug/L
RT: 15.192 min Scan# 2243
Delta R.T. 0.005 min
Lab File: 2E107478.D
Acq: 22 Oct 2014 1:17 pm

Tgt Ion:105 Resp: 4908

Ion	Ratio	Lower	Upper
105	100		
134	11.2	0.0	50.1
91	3.5	0.0	44.7

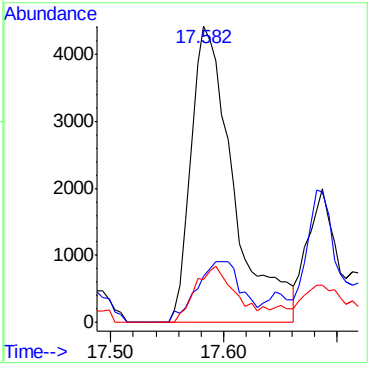




#133
naphthalene
Concen: 1.23 ug/L
RT: 17.582 min Scan# 2699
Delta R.T. 0.021 min
Lab File: 2E107478.D
Acq: 22 Oct 2014 1:17 pm

Tgt Ion:128 Resp: 11533

Ion	Ratio	Lower	Upper
128	100		
129	15.7	0.0	41.0
127	14.4	0.0	42.8



7.1.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107480.D
Acq On : 22 Oct 2014 2:15 pm
Operator : DIXITAR
Sample : jb79217-8
Misc : MS75578,V2E4808,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 23 16:20:39 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

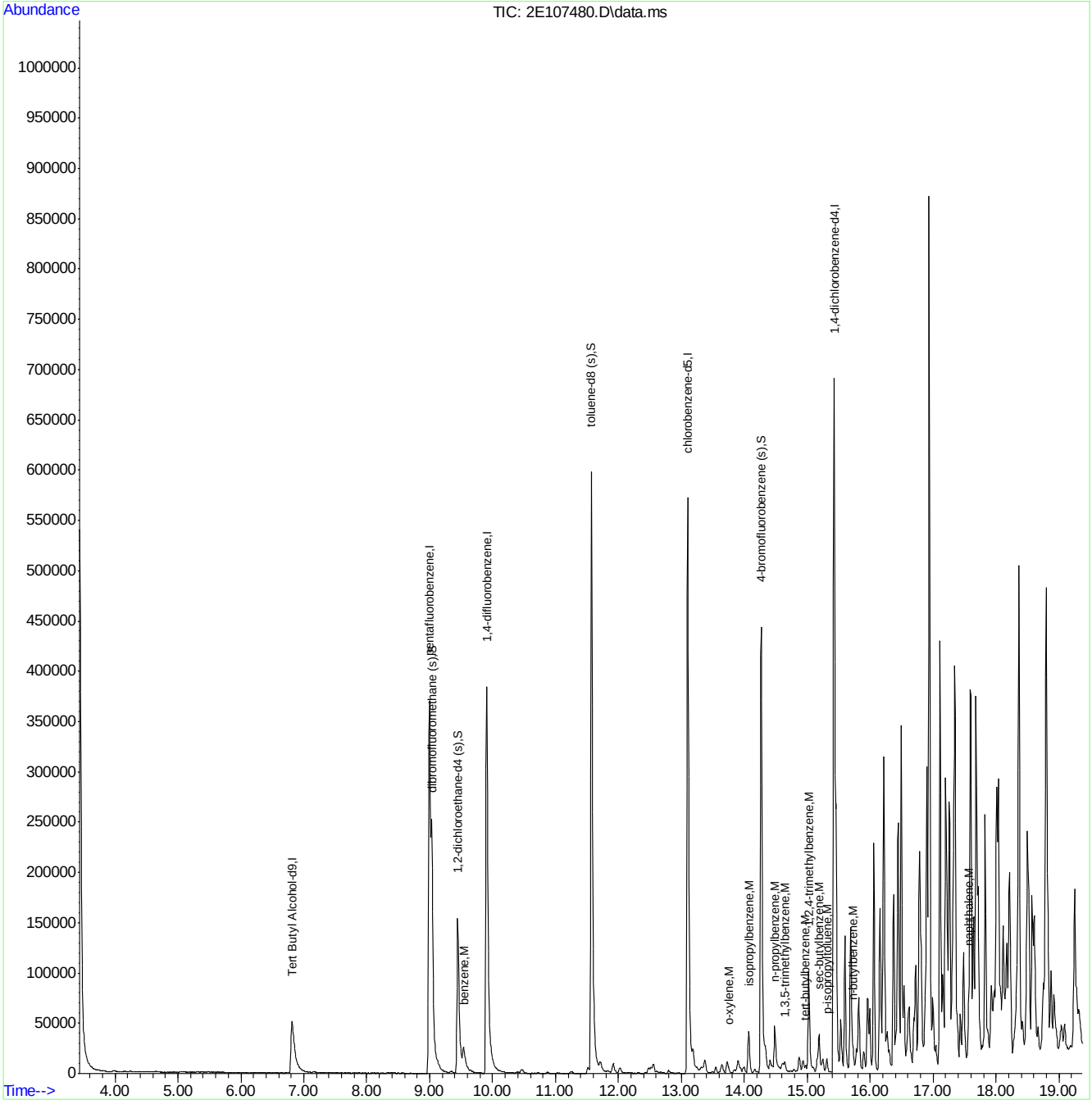
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.813	65	140647	500.00	ug/L	-0.01
5) pentafluorobenzene	8.994	168	370138	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	443817	50.00	ug/L	0.00
88) chlorobenzene-d5	13.100	117	377874	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	199943	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.036	113	130317	57.87	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 115.74%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	138615	57.59	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 115.18%			
80) toluene-d8 (s)	11.569	98	504335	56.88	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 113.76%			
106) 4-bromofluorobenzene (s)	14.269	95	182288	55.22	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 110.44%			
Target Compounds						Qvalue
65) benzene	9.545	78	32441	2.96	ug/L	97
100) o-xylene	13.760	106	1103	0.23	ug/L	71
105) isopropylbenzene	14.070	105	32760	2.76	ug/L	97
112) n-propylbenzene	14.484	91	48130	3.70	ug/L	99
116) 1,3,5-trimethylbenzene	14.641	105	5909	0.59	ug/L	96
117) tert-butylbenzene	14.971	119	4165	0.50	ug/L	91
119) 1,2,4-trimethylbenzene	15.024	105	64916	6.84	ug/L	99
120) sec-butylbenzene	15.186	105	29879	2.29	ug/L	98
122) p-isopropyltoluene	15.312	119	8075	0.74	ug/L	94
127) n-butylbenzene	15.726	92	7180	1.30	ug/L	97
133) naphthalene	17.567	128	59719	6.03	ug/L	97

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

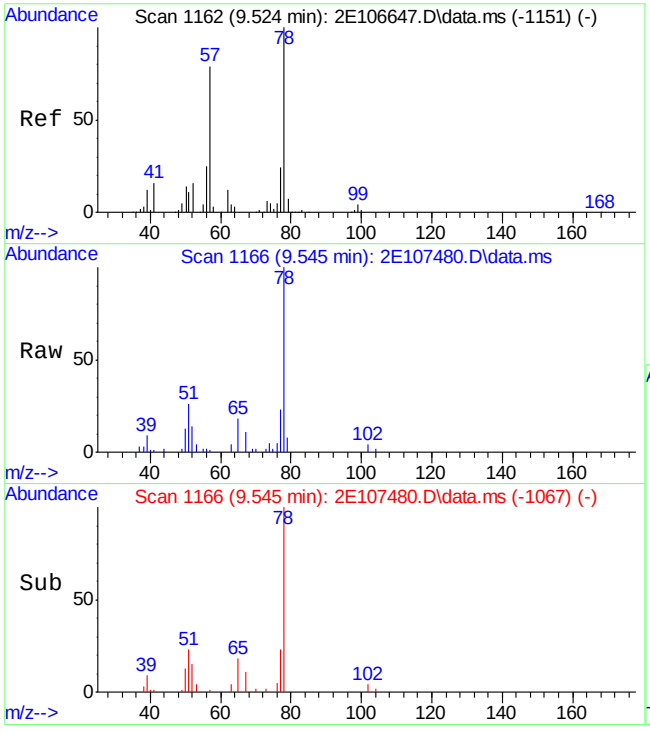
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107480.D
Acq On : 22 Oct 2014 2:15 pm
Operator : DIXITAR
Sample : jb79217-8
Misc : MS75578,V2E4808,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 23 16:20:39 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



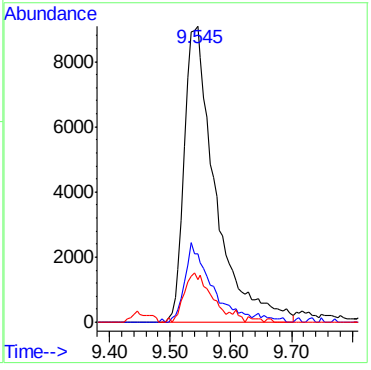
M2E4774.M Thu Oct 23 16:39:20 2014 ACCNJ Page: 2

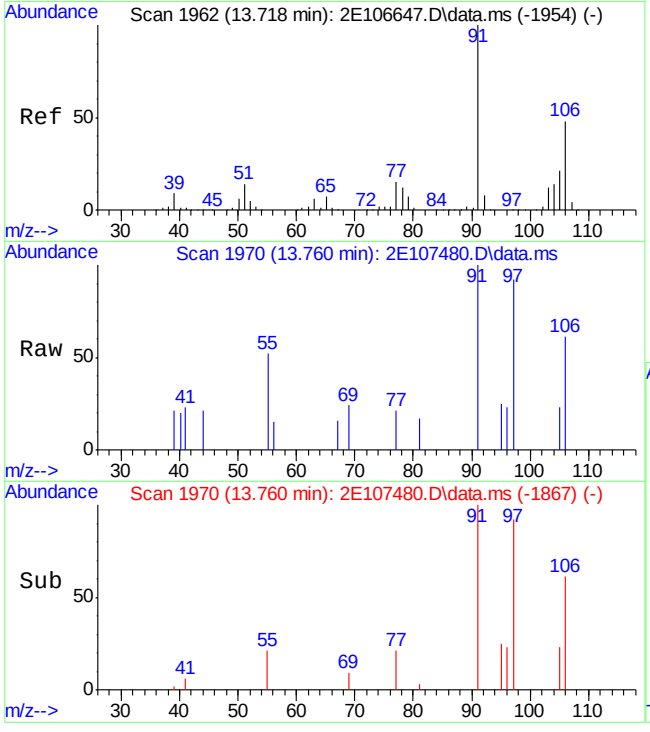


#65
benzene
Concen: 2.96 ug/L
RT: 9.545 min Scan# 1166
Delta R.T. 0.021 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion: 78 Resp: 32441

Ion	Ratio	Lower	Upper
78	100		
77	23.1	0.0	54.0
52	14.5	0.0	46.4

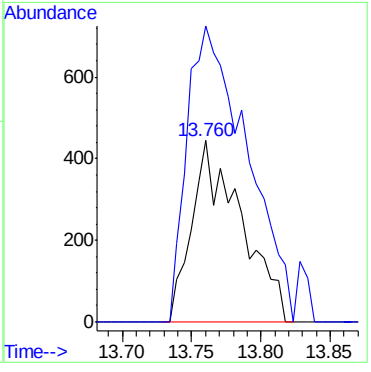


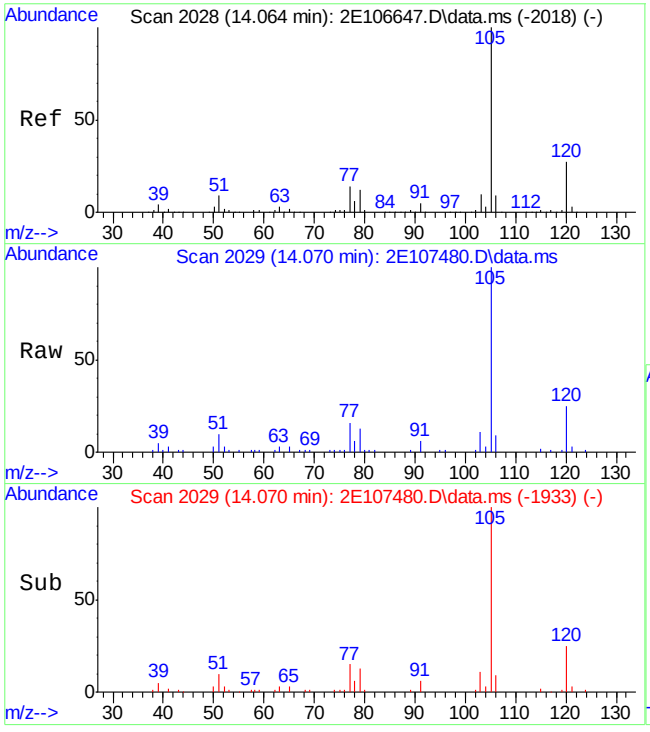


#100
o-xylene
Concen: 0.23 ug/L
RT: 13.760 min Scan# 1970
Delta R.T. 0.042 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion:106 Resp: 1103

Ion	Ratio	Lower	Upper
106	100		
91	163.3	145.5	270.1

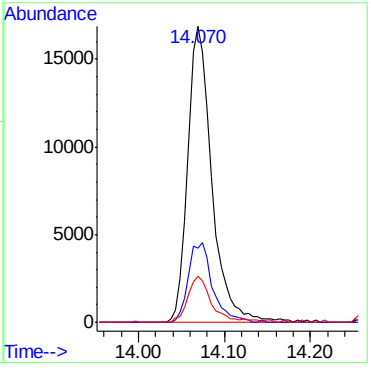


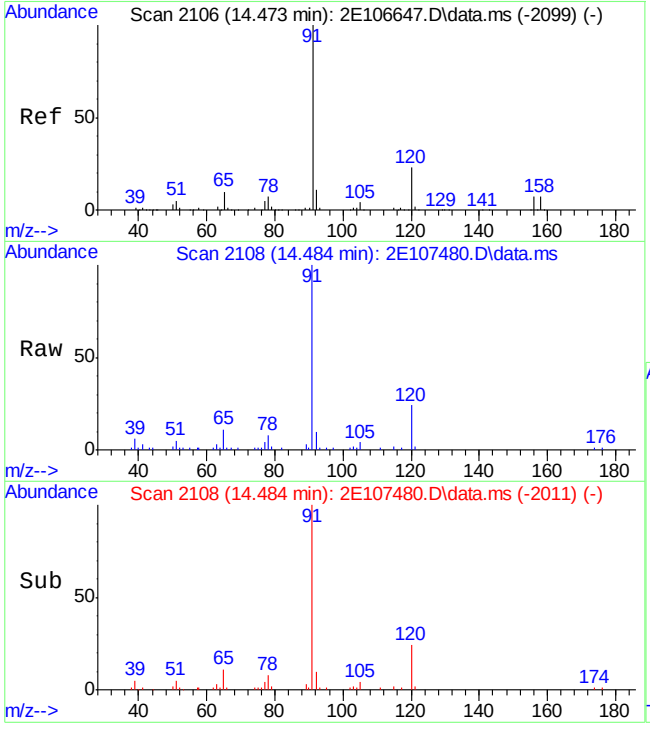


#105
isopropylbenzene
Concen: 2.76 ug/L
RT: 14.070 min Scan# 2029
Delta R.T. 0.005 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion:105 Resp: 32760

Ion	Ratio	Lower	Upper
105	100		
120	25.2	0.0	56.7
77	15.5	0.0	44.0

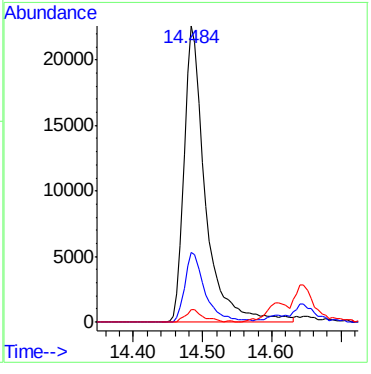


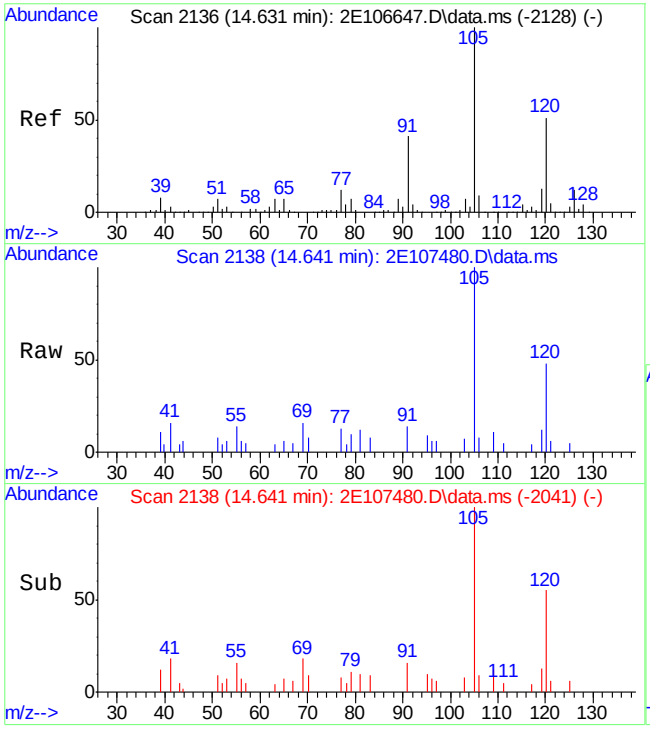


#112
n-propylbenzene
Concen: 3.70 ug/L
RT: 14.484 min Scan# 2108
Delta R.T. 0.010 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion: 91 Resp: 48130

Ion	Ratio	Lower	Upper
91	100		
120	23.6	0.0	53.4
105	4.3	0.0	33.7

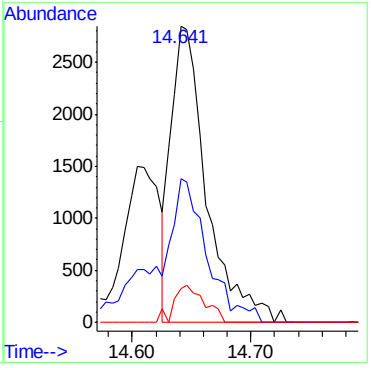


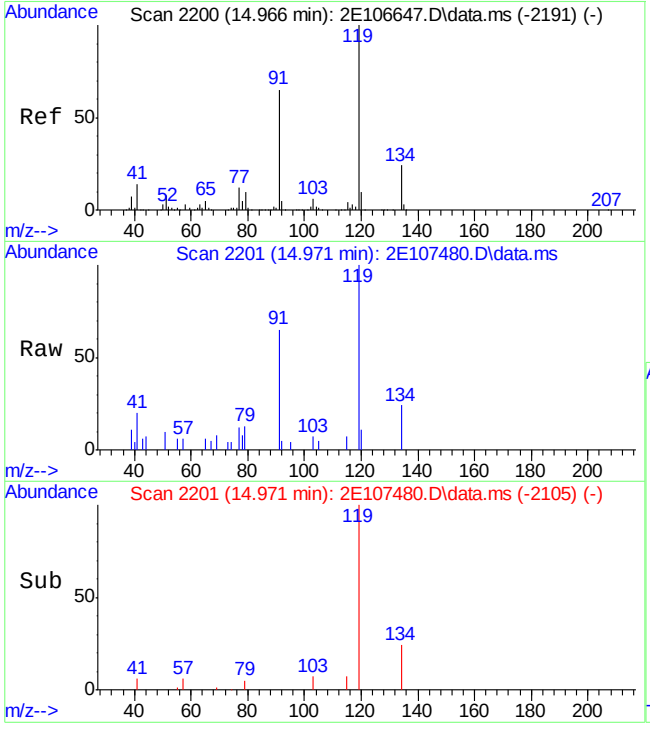


#116
1,3,5-trimethylbenzene
Concen: 0.59 ug/L
RT: 14.641 min Scan# 2138
Delta R.T. 0.010 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion:105 Resp: 5909

Ion	Ratio	Lower	Upper
105	100		
120	48.5	21.1	81.1
119	11.6	0.0	42.8

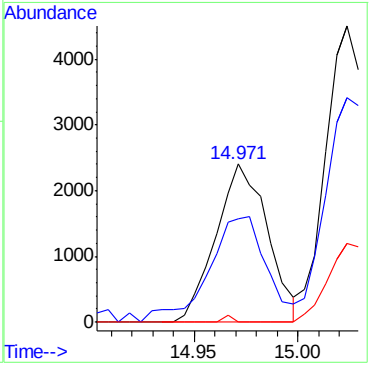


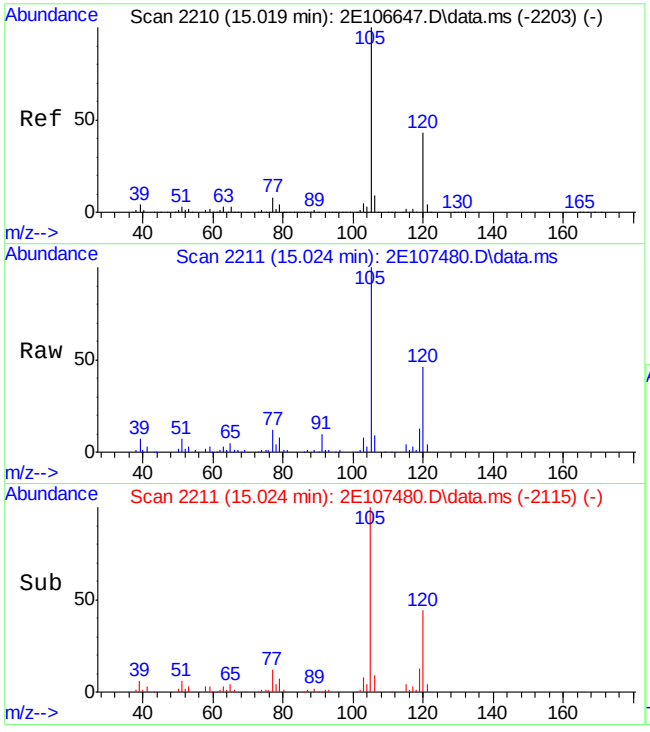


#117
tert-butylbenzene
Concen: 0.50 ug/L
RT: 14.971 min Scan# 2201
Delta R.T. 0.005 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion:119 Resp: 4165

Ion	Ratio	Lower	Upper
119	100		
91	57.7	34.9	94.9
117	0.0	0.0	33.0

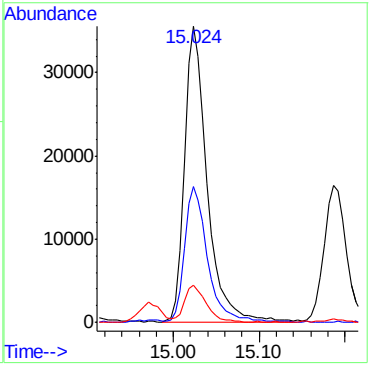


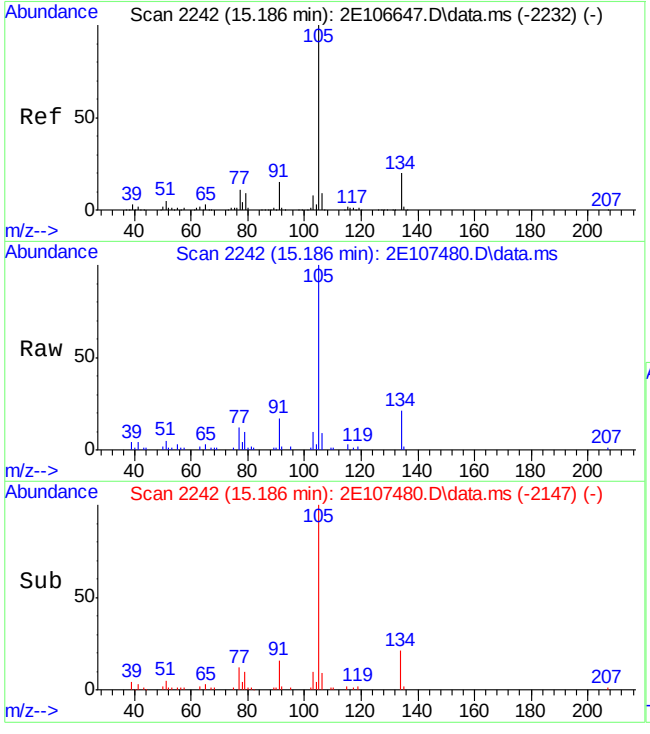


#119
1,2,4-trimethylbenzene
Concen: 6.84 ug/L
RT: 15.024 min Scan# 2211
Delta R.T. 0.006 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion:105 Resp: 64916

Ion	Ratio	Lower	Upper
105	100		
120	45.8	16.9	76.9
119	12.7	0.0	43.0

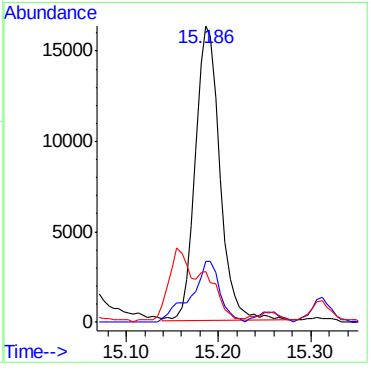




#120
sec-butylbenzene
Concen: 2.29 ug/L
RT: 15.186 min Scan# 2242
Delta R.T. -0.000 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion:105 Resp: 29879

Ion	Ratio	Lower	Upper
105	100		
134	20.8	0.0	50.1
91	16.3	0.0	44.7



7.1.8

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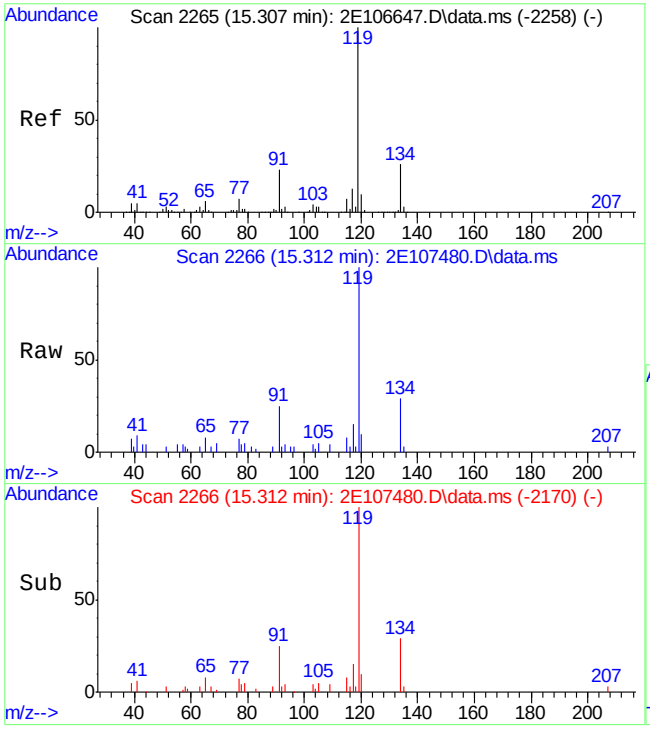
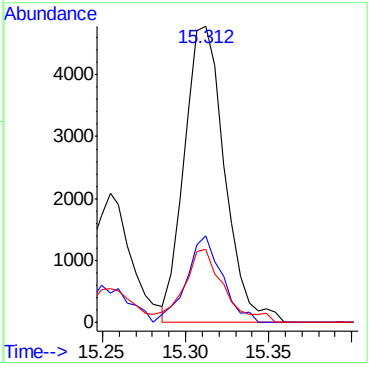
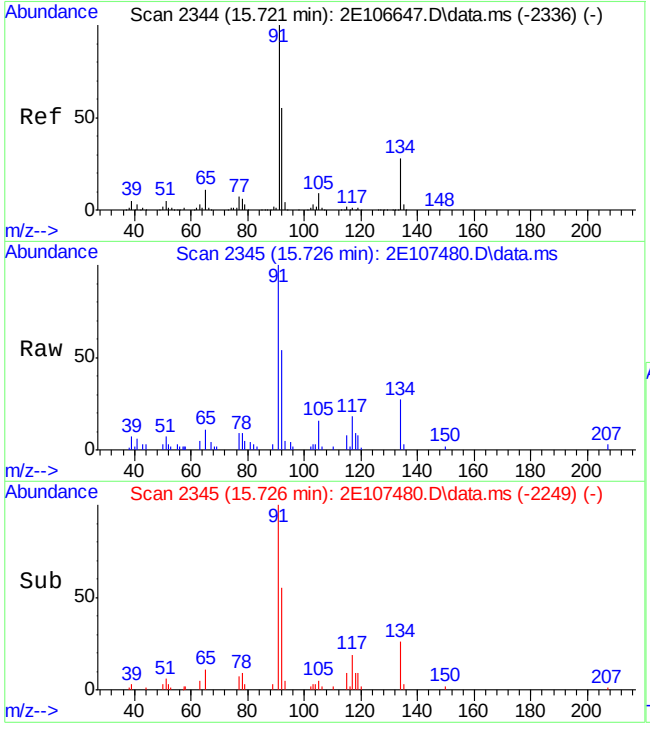


#122
p-isopropyltoluene
Concen: 0.74 ug/L
RT: 15.312 min Scan# 2266
Delta R.T. 0.005 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion:119 Resp: 8075

Ion	Ratio	Lower	Upper
119	100		
134	29.2	0.0	55.9
91	24.8	0.0	52.6

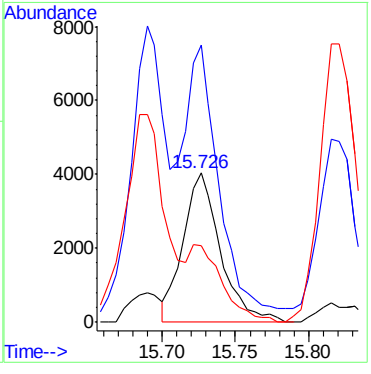




#127
n-butylbenzene
Concen: 1.30 ug/L
RT: 15.726 min Scan# 2345
Delta R.T. 0.005 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

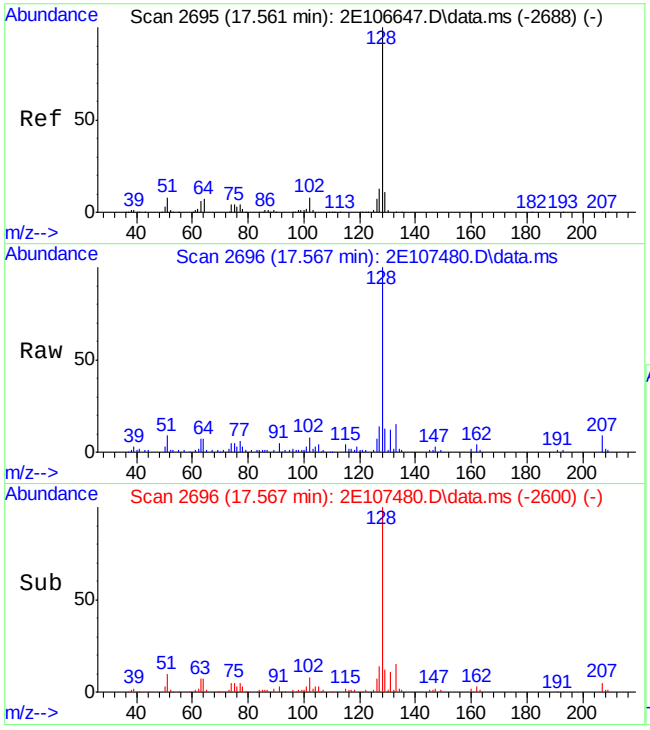
Tgt Ion: 92 Resp: 7180

Ion	Ratio	Lower	Upper
92	100		
91	176.5	150.8	210.8
134	47.4	19.8	79.8



7.1.8

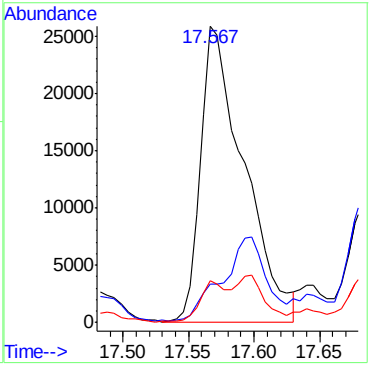
7



#133
naphthalene
Concen: 6.03 ug/L
RT: 17.567 min Scan# 2696
Delta R.T. 0.005 min
Lab File: 2E107480.D
Acq: 22 Oct 2014 2:15 pm

Tgt Ion:128 Resp: 59719

Ion	Ratio	Lower	Upper
128	100		
129	12.2	0.0	41.0
127	13.6	0.0	42.8



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107453.D
Acq On : 21 Oct 2014 7:37 pm
Operator : DIXITAR
Sample : jb79217-9
Misc : MS75578,V2E4807,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 23 12:03:00 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

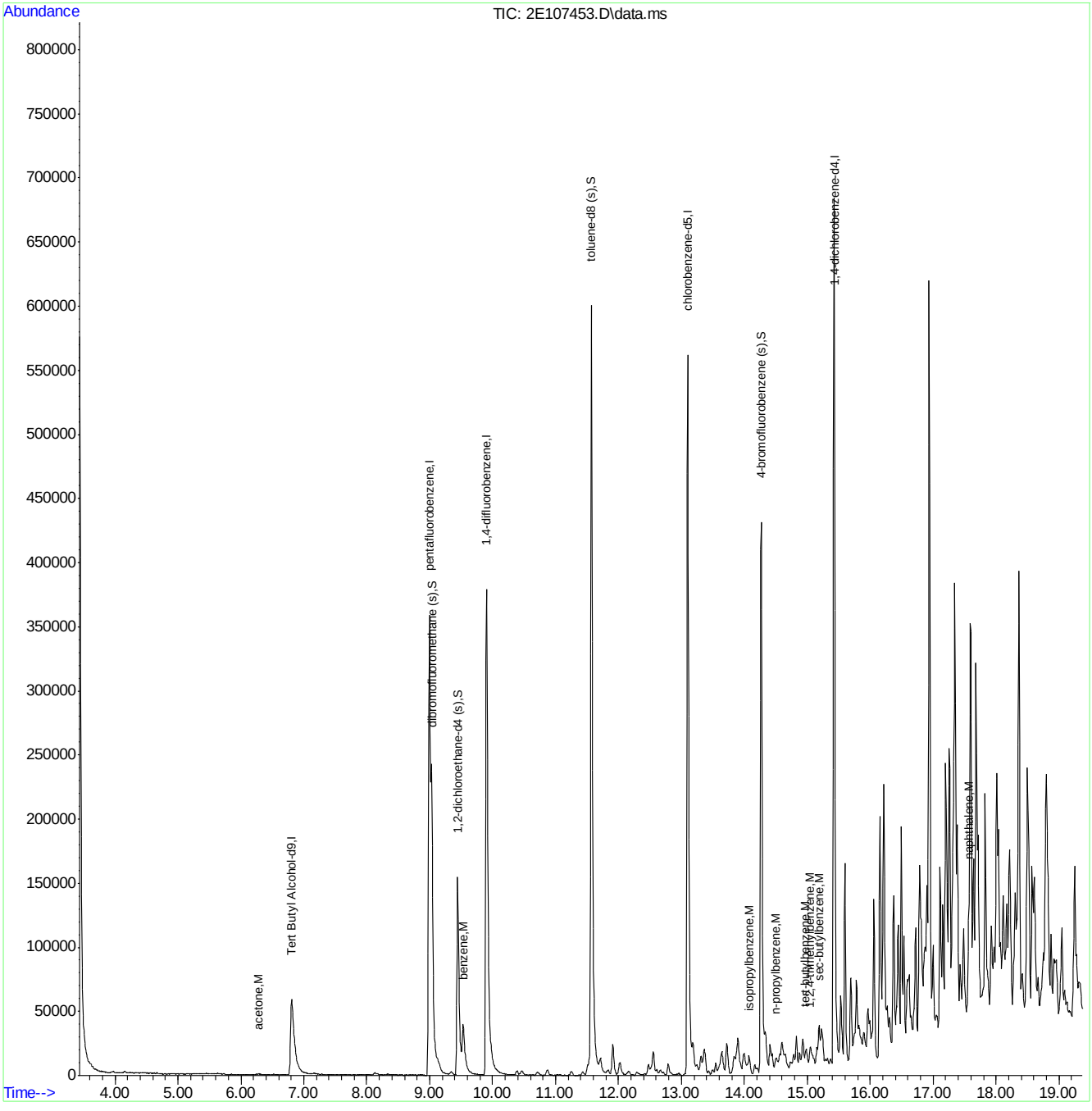
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.803	65	161295	500.00	ug/L	-0.02
5) pentafluorobenzene	8.994	168	357928	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.901	114	428631	50.00	ug/L	-0.01
88) chlorobenzene-d5	13.100	117	365476	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	191448	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	125017	57.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 114.82%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	133328	57.28	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.56%			
80) toluene-d8 (s)	11.569	98	492961	57.57	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 115.14%			
106) 4-bromofluorobenzene (s)	14.269	95	177078	56.02	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 112.04%			
Target Compounds						Qvalue
22) acetone	6.278	58	866	3.24	ug/L #	84
65) benzene	9.534	78	49264	4.65	ug/L	99
105) isopropylbenzene	14.075	105	5525	0.49	ug/L	91
112) n-propylbenzene	14.500	91	4892	0.39	ug/L	92
117) tert-butylbenzene	14.971	119	5918	0.74	ug/L	95
119) 1,2,4-trimethylbenzene	15.040	105	4513	0.50	ug/L	88
120) sec-butylbenzene	15.186	105	17777	1.42	ug/L	96
133) naphthalene	17.567	128	75338	7.95	ug/L	97

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

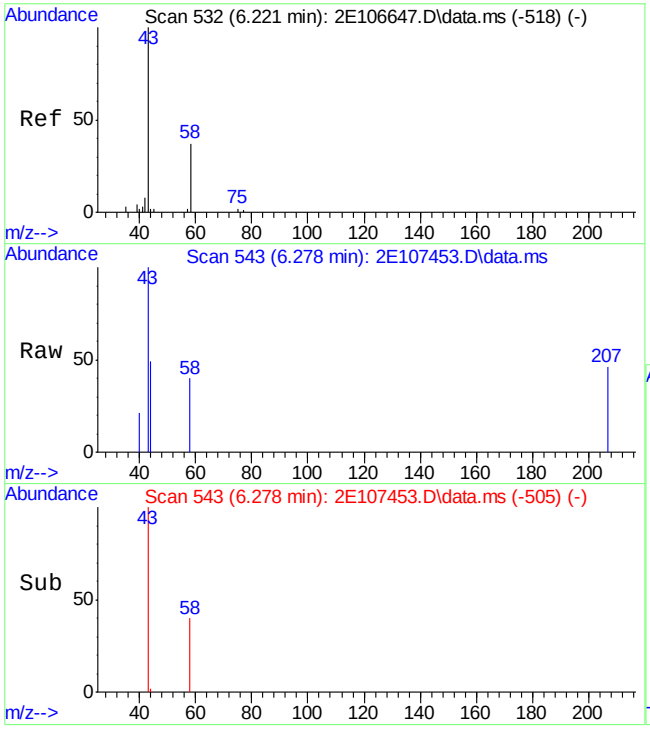
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107453.D
Acq On : 21 Oct 2014 7:37 pm
Operator : DIXITAR
Sample : jb79217-9
Misc : MS75578,V2E4807,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 23 12:03:00 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



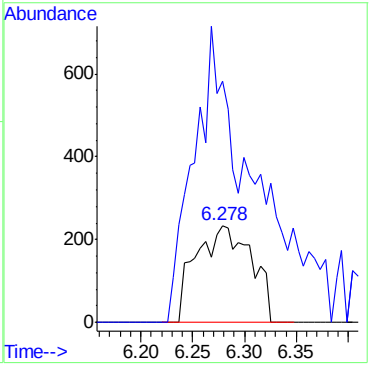
M2E4774.M Thu Oct 23 12:03:08 2014 ACCNJ Page: 2

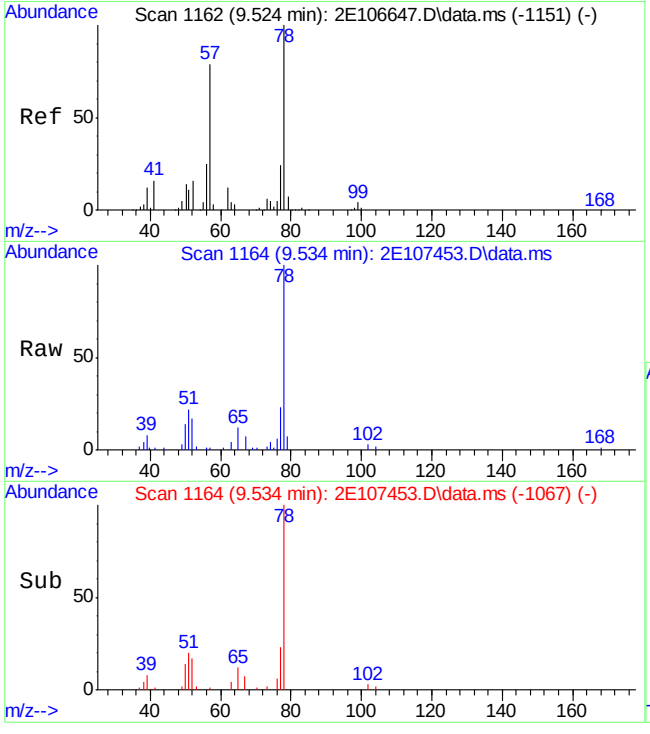


#22
acetone
Concen: 3.24 ug/L
RT: 6.278 min Scan# 543
Delta R.T. 0.058 min
Lab File: 2E107453.D
Acq: 21 Oct 2014 7:37 pm

Tgt Ion: 58 Resp: 866

Ion	Ratio	Lower	Upper
58	100		
43	249.1	249.9	309.9#

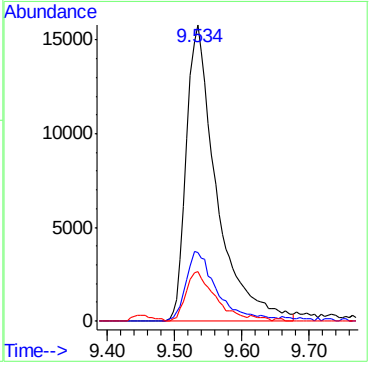


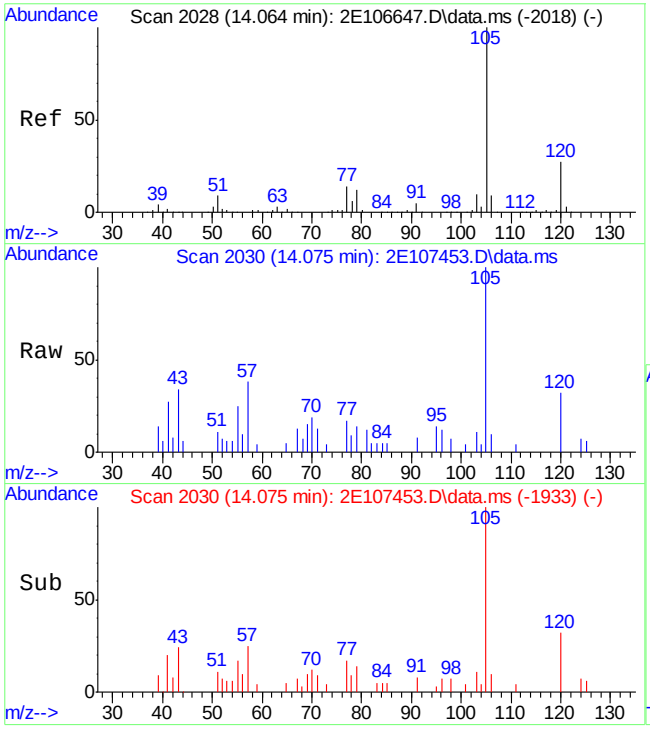


#65
benzene
Concen: 4.65 ug/L
RT: 9.534 min Scan# 1164
Delta R.T. 0.010 min
Lab File: 2E107453.D
Acq: 21 Oct 2014 7:37 pm

Tgt Ion: 78 Resp: 49264

Ion	Ratio	Lower	Upper
78	100		
77	23.3	0.0	54.0
52	16.6	0.0	46.4

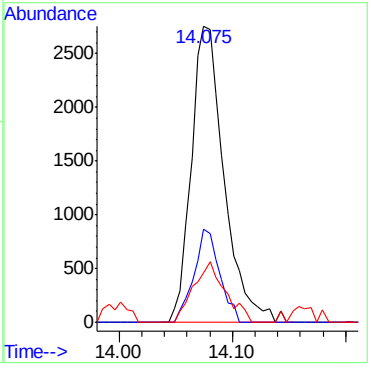


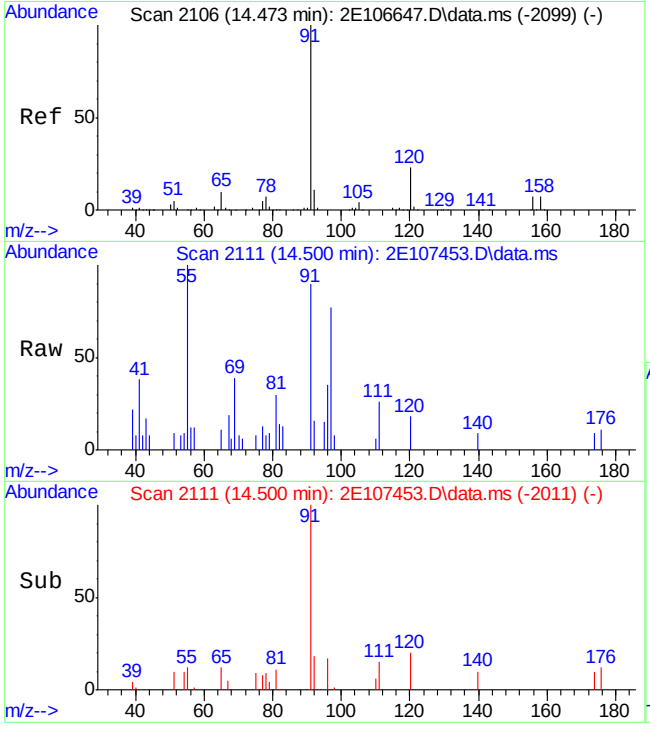


#105
isopropylbenzene
Concen: 0.49 ug/L
RT: 14.075 min Scan# 2030
Delta R.T. 0.010 min
Lab File: 2E107453.D
Acq: 21 Oct 2014 7:37 pm

Tgt Ion:105 Resp: 5525

Ion	Ratio	Lower	Upper
105	100		
120	31.5	0.0	56.7
77	16.9	0.0	44.0

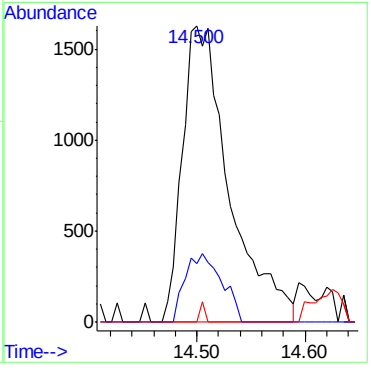


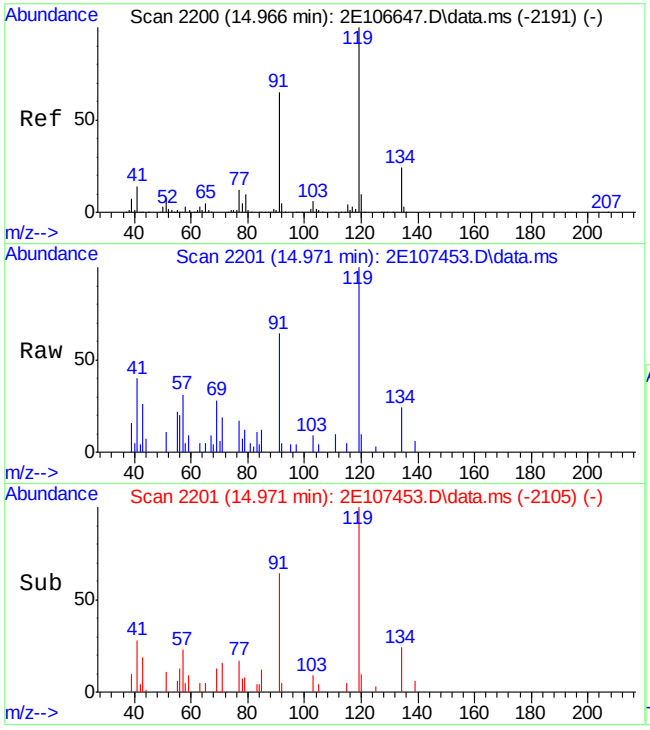


#112
n-propylbenzene
Concen: 0.39 ug/L
RT: 14.500 min Scan# 2111
Delta R.T. 0.026 min
Lab File: 2E107453.D
Acq: 21 Oct 2014 7:37 pm

Tgt Ion: 91 Resp: 4892

Ion	Ratio	Lower	Upper
91	100		
120	19.7	0.0	53.4
105	0.0	0.0	33.7

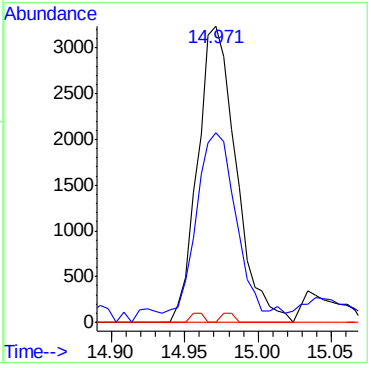


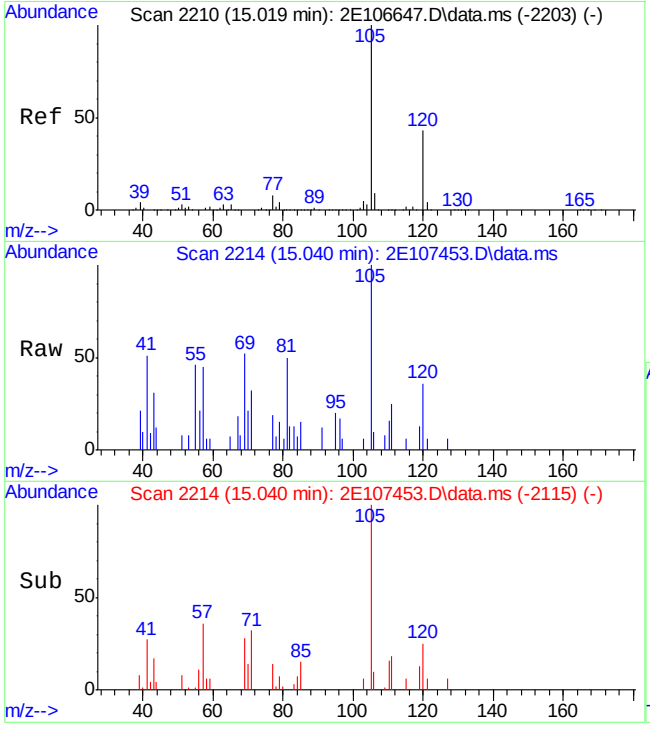


#117
tert-butylbenzene
Concen: 0.74 ug/L
RT: 14.971 min Scan# 2201
Delta R.T. 0.005 min
Lab File: 2E107453.D
Acq: 21 Oct 2014 7:37 pm

Tgt Ion:119 Resp: 5918

Ion	Ratio	Lower	Upper
119	100		
91	60.9	34.9	94.9
117	0.0	0.0	33.0

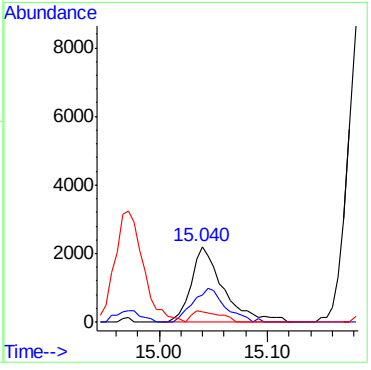




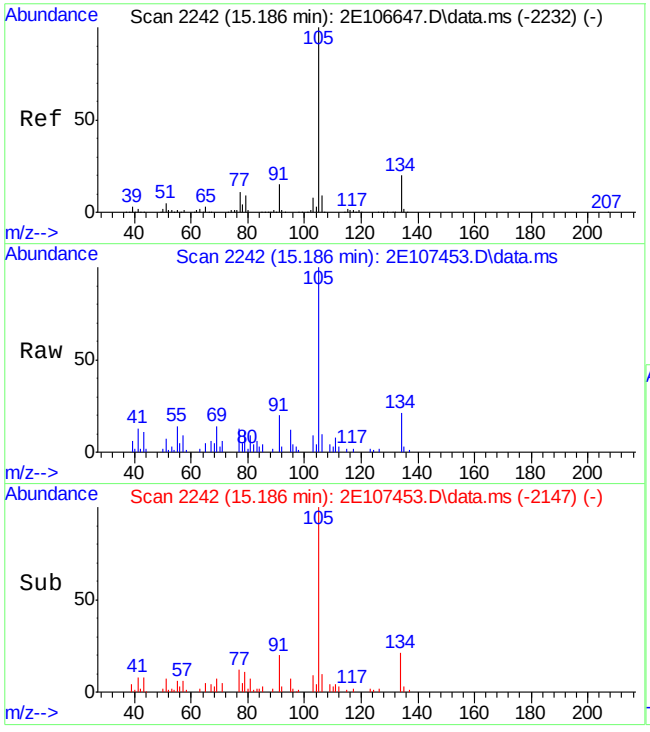
#119
1,2,4-trimethylbenzene
Concen: 0.50 ug/L
RT: 15.040 min Scan# 2214
Delta R.T. 0.022 min
Lab File: 2E107453.D
Acq: 21 Oct 2014 7:37 pm

Tgt Ion:105 Resp: 4513

Ion	Ratio	Lower	Upper
105	100		
120	36.5	16.9	76.9
119	13.3	0.0	43.0



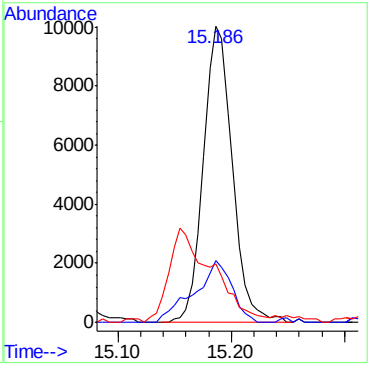
7.1.9

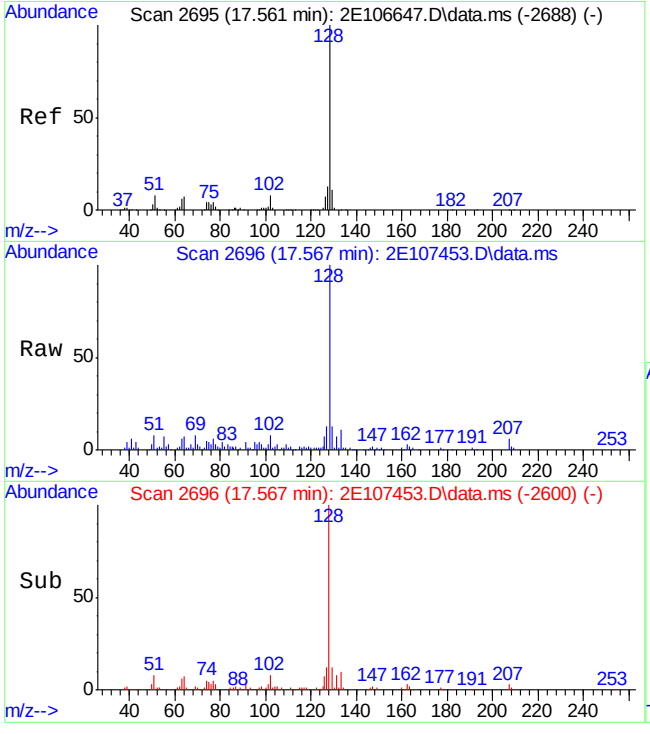


#120
sec-butylbenzene
Concen: 1.42 ug/L
RT: 15.186 min Scan# 2242
Delta R.T. -0.000 min
Lab File: 2E107453.D
Acq: 21 Oct 2014 7:37 pm

Tgt Ion:105 Resp: 17777

Ion	Ratio	Lower	Upper
105	100		
134	21.0	0.0	50.1
91	18.0	0.0	44.7

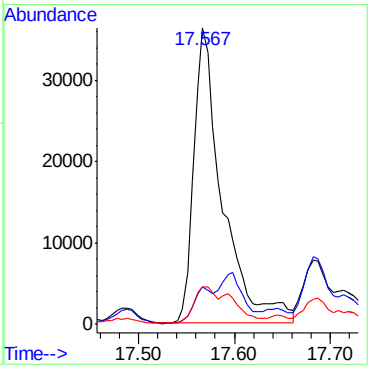




#133
naphthalene
Concen: 7.95 ug/L
RT: 17.567 min Scan# 2696
Delta R.T. 0.005 min
Lab File: 2E107453.D
Acq: 21 Oct 2014 7:37 pm

Tgt Ion:128 Resp: 75338

Ion	Ratio	Lower	Upper
128	100		
129	12.7	0.0	41.0
127	12.3	0.0	42.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107454.D
Acq On : 21 Oct 2014 8:06 pm
Operator : DIXITAR
Sample : jb79217-10
Misc : MS75578,V2E4807,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 22 15:44:15 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

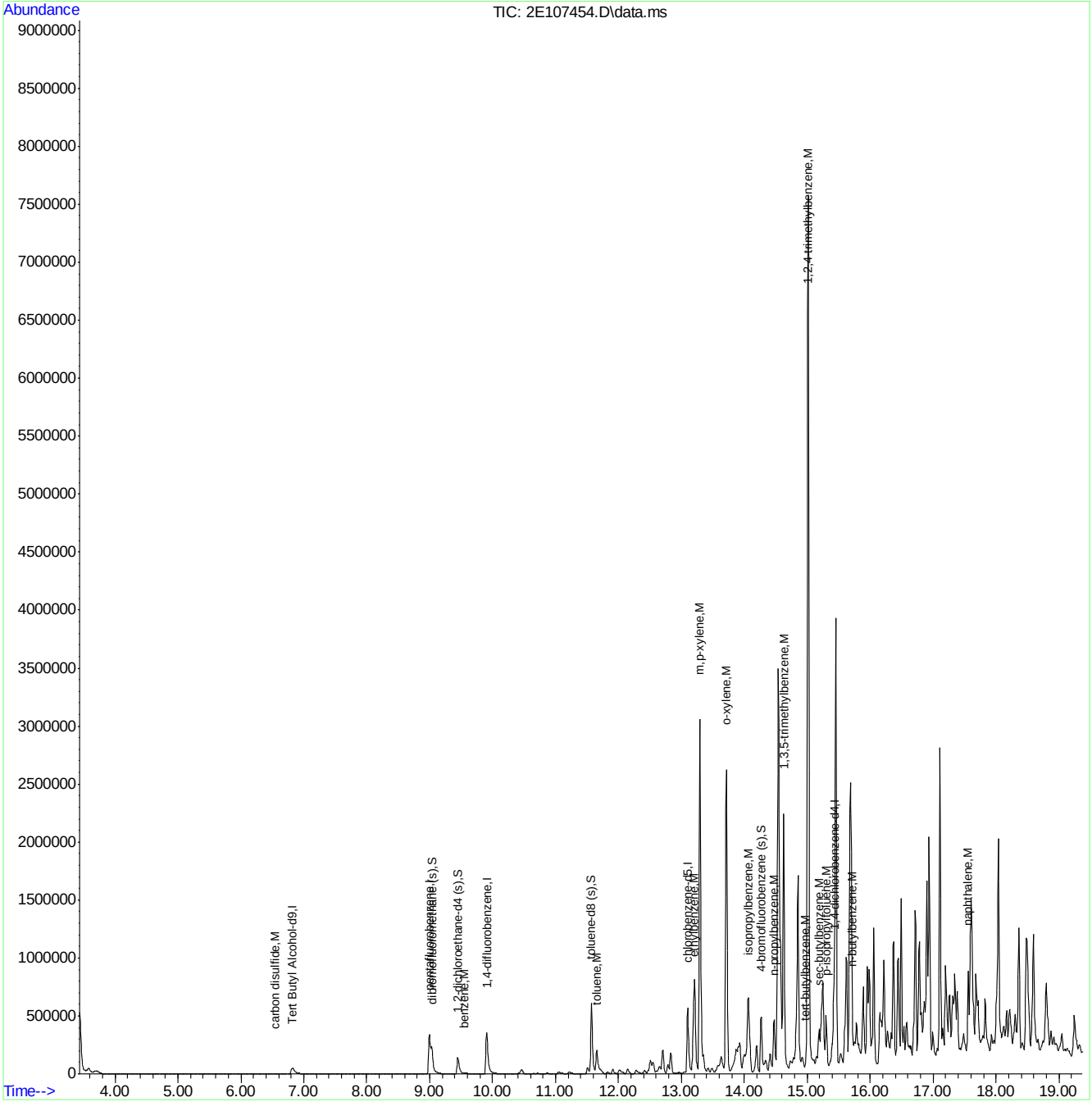
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.813	65	135438	500.00	ug/L	-0.01
5) pentafluorobenzene	8.994	168	335637	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	405125	50.00	ug/L	0.00
88) chlorobenzene-d5	13.100	117	352509	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	196225	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.036	113	119974	58.75	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 117.50%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	129316	59.25	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 118.50%			
80) toluene-d8 (s)	11.569	98	473702	58.53	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 117.06%			
106) 4-bromofluorobenzene (s)	14.269	95	181403	55.99	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 111.98%			
Target Compounds						Qvalue
26) carbon disulfide	6.535	76	4497	0.52	ug/L	91
65) benzene	9.555	78	11539	1.15	ug/L	92
82) toluene	11.658	92	87400	14.93	ug/L	97
98) ethylbenzene	13.194	91	334268	29.70	ug/L	99
99) m,p-xylene	13.294	106	910284	207.28	ug/L	99
100) o-xylene	13.713	106	676864	148.92	ug/L	100
105) isopropylbenzene	14.059	105	239428	20.57	ug/L	99
112) n-propylbenzene	14.473	91	339738	26.64	ug/L	99
116) 1,3,5-trimethylbenzene	14.625	105	1197124	121.01	ug/L	99
117) tert-butylbenzene	14.966	119	6141	0.75	ug/L	86
119) 1,2,4-trimethylbenzene	15.013	105	4126955	443.36	ug/L	98
120) sec-butylbenzene	15.181	105	168634	13.15	ug/L	95
122) p-isopropyltoluene	15.307	119	146155	13.72	ug/L	99
127) n-butylbenzene	15.716	92	53609	9.87	ug/L	96
133) naphthalene	17.556	128	539337	55.50	ug/L	99

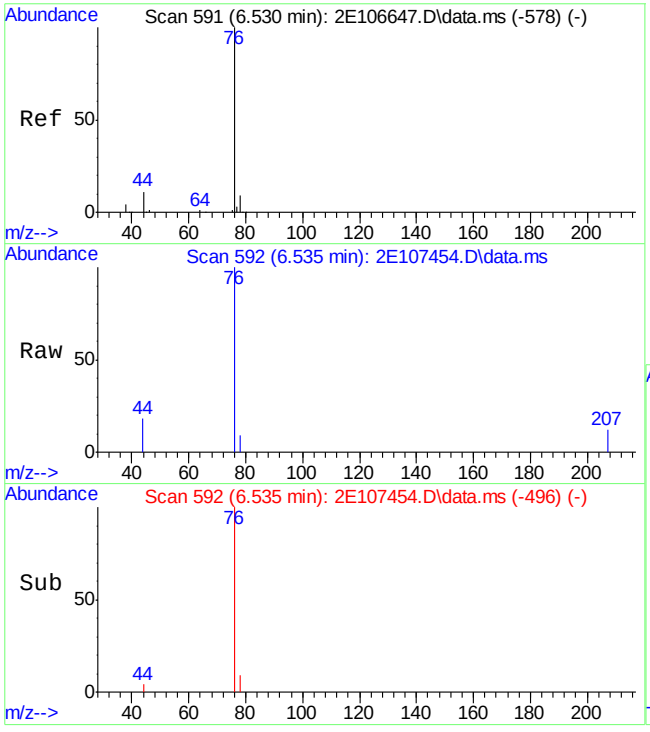
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107454.D
Acq On : 21 Oct 2014 8:06 pm
Operator : DIXITAR
Sample : jb79217-10
Misc : MS75578,V2E4807,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 22 15:44:15 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

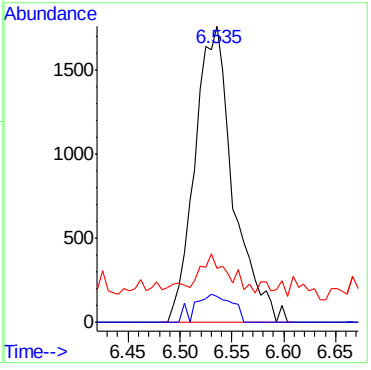


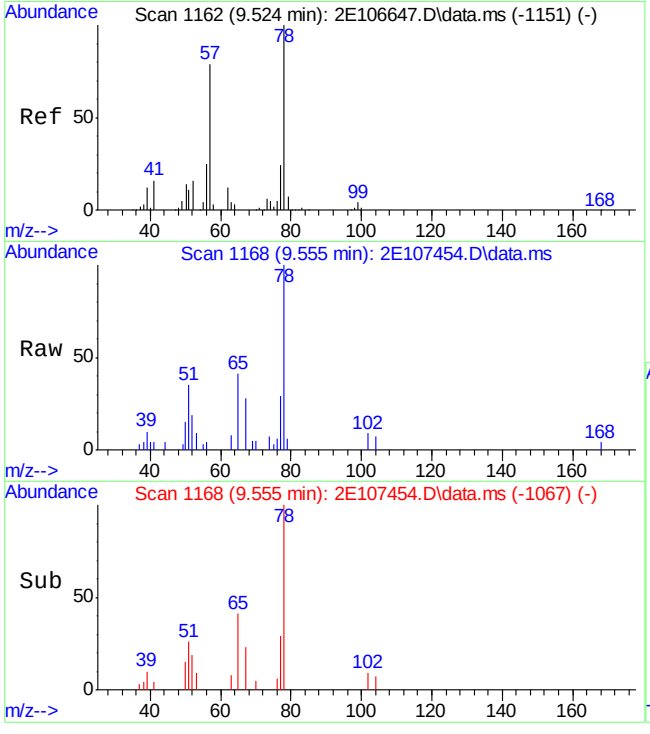


#26
carbon disulfide
Concen: 0.52 ug/L
RT: 6.535 min Scan# 592
Delta R.T. 0.005 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion: 76 Resp: 4497

Ion	Ratio	Lower	Upper
76	100		
78	8.9	0.0	38.9
44	4.8	0.0	40.9

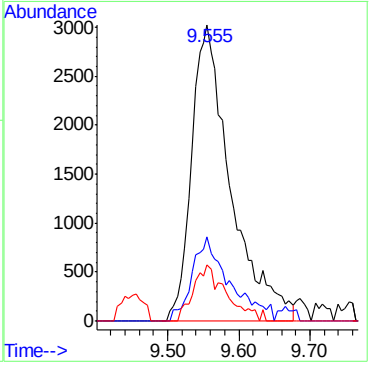


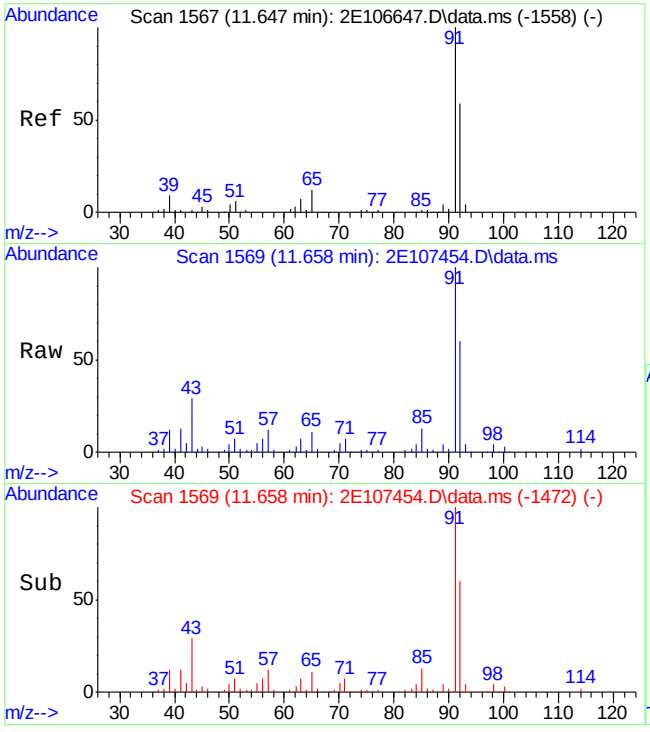


#65
benzene
Concen: 1.15 ug/L
RT: 9.555 min Scan# 1168
Delta R.T. 0.032 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion: 78 Resp: 11539

Ion	Ratio	Lower	Upper
78	100		
77	28.5	0.0	54.0
52	19.1	0.0	46.4

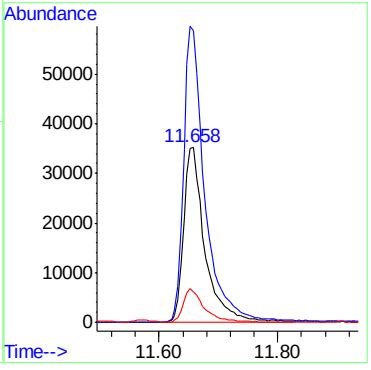


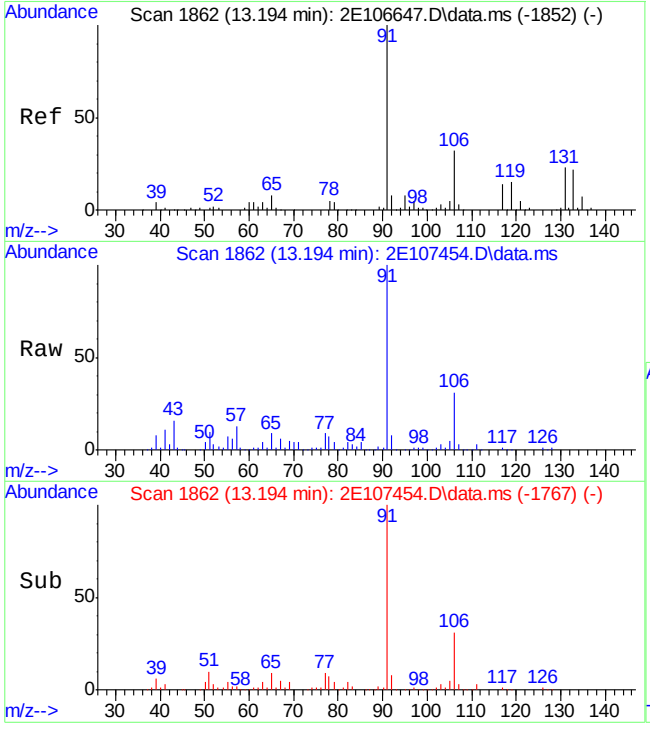


#82
toluene
Concen: 14.93 ug/L
RT: 11.658 min Scan# 1569
Delta R.T. 0.011 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion: 92 Resp: 87400

Ion	Ratio	Lower	Upper
92	100		
91	166.2	139.5	199.5
65	17.5	0.0	49.6

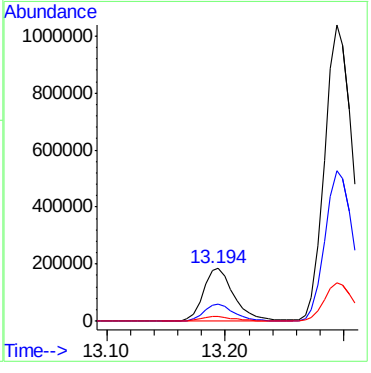


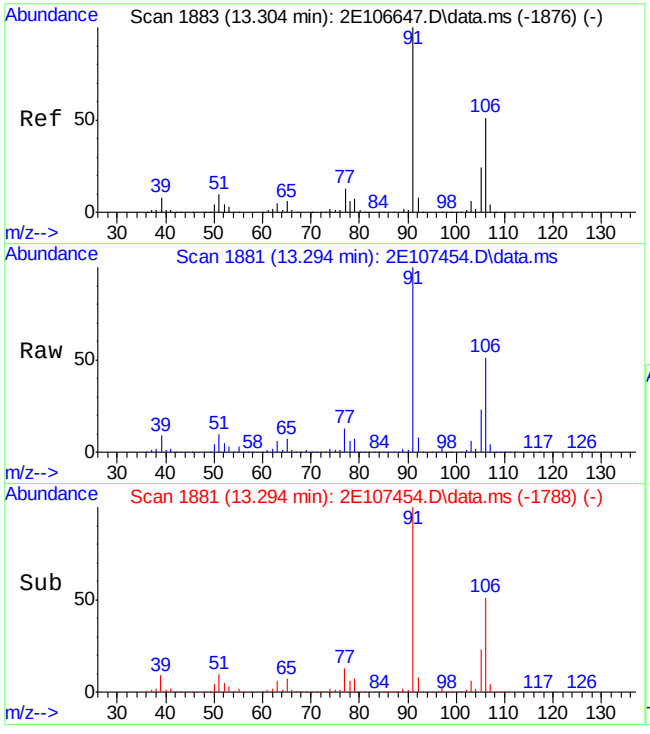


#98
ethylbenzene
Concen: 29.70 ug/L
RT: 13.194 min Scan# 1862
Delta R.T. 0.000 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion: 91 Resp: 334268

Ion	Ratio	Lower	Upper
91	100		
106	31.1	1.8	61.8
77	8.6	0.0	38.5

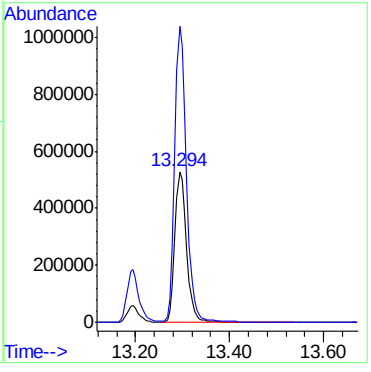


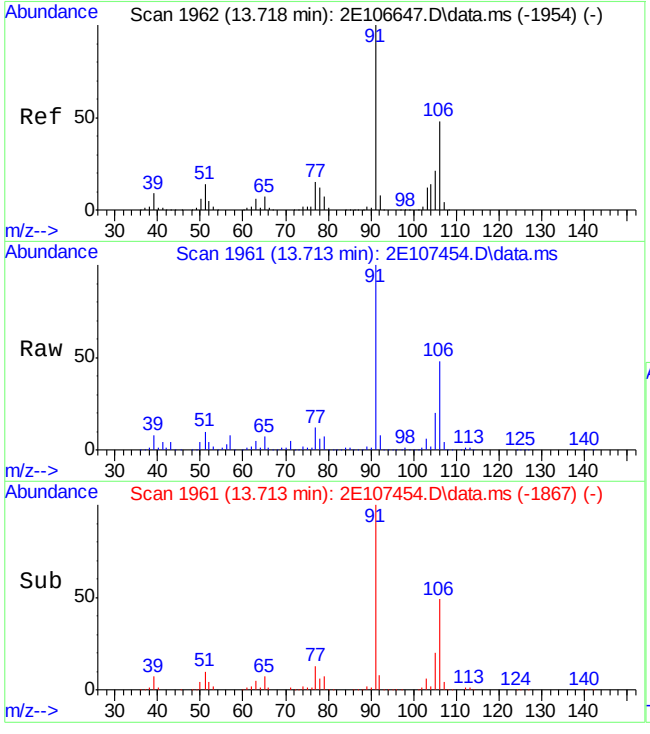


#99
m,p-xylene
Concen: 207.28 ug/L
RT: 13.294 min Scan# 1881
Delta R.T. -0.010 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion:106 Resp: 910284

Ion	Ratio	Lower	Upper
106	100		
91	196.8	137.1	254.7

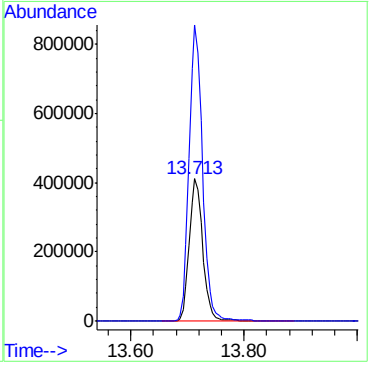


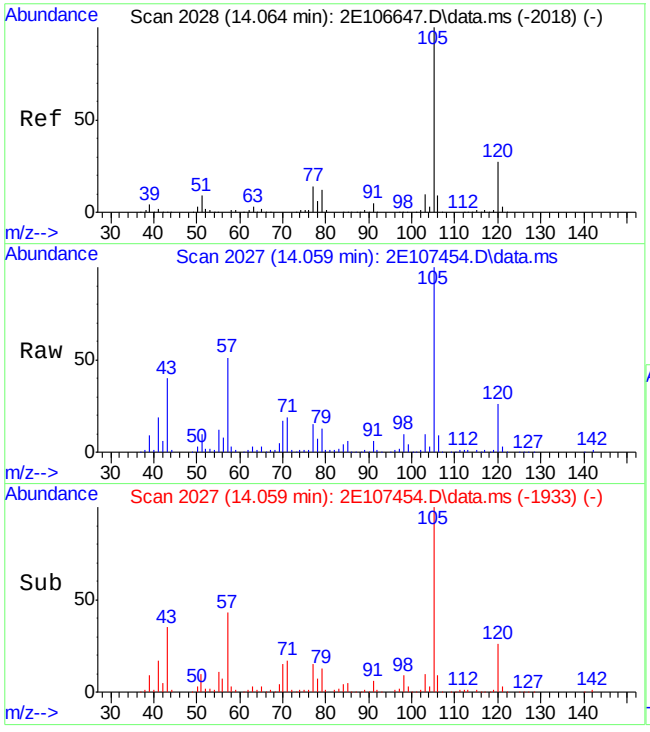


#100
o-xylene
Concen: 148.92 ug/L
RT: 13.713 min Scan# 1961
Delta R.T. -0.005 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion:106 Resp: 676864

Ion	Ratio	Lower	Upper
106	100		
91	207.9	145.5	270.1

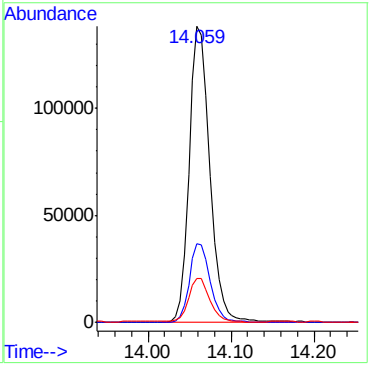


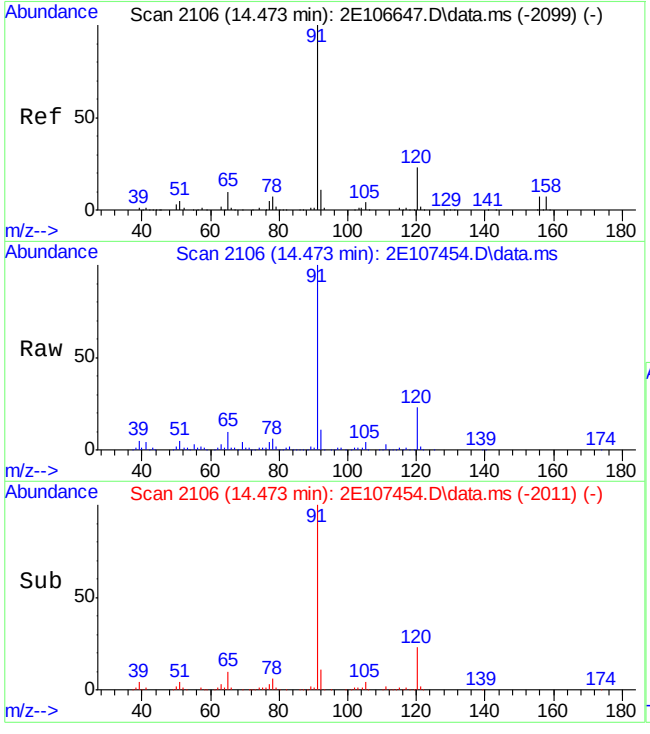


#105
isopropylbenzene
Concen: 20.57 ug/L
RT: 14.059 min Scan# 2027
Delta R.T. -0.005 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion:105 Resp: 239428

Ion	Ratio	Lower	Upper
105	100		
120	26.4	0.0	56.7
77	14.7	0.0	44.0

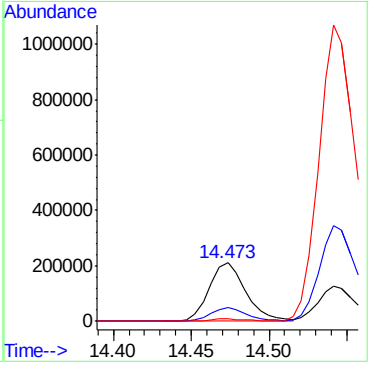


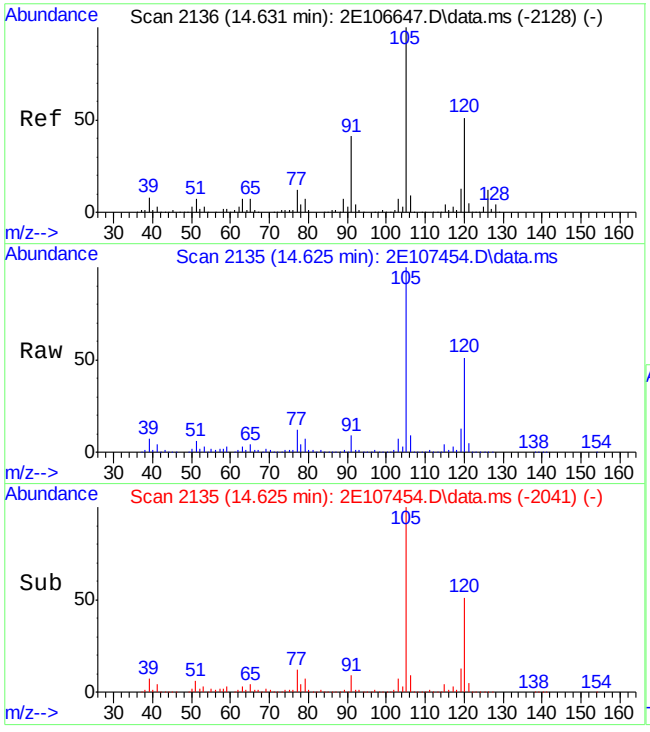


#112
n-propylbenzene
Concen: 26.64 ug/L
RT: 14.473 min Scan# 2106
Delta R.T. 0.000 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion: 91 Resp: 339738

Ion	Ratio	Lower	Upper
91	100		
120	23.1	0.0	53.4
105	4.0	0.0	33.7

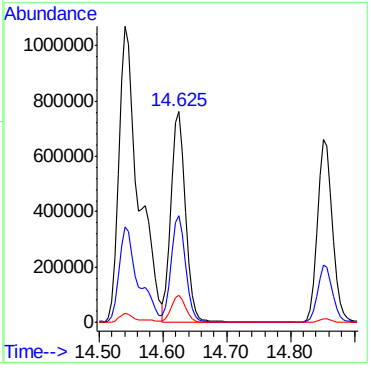


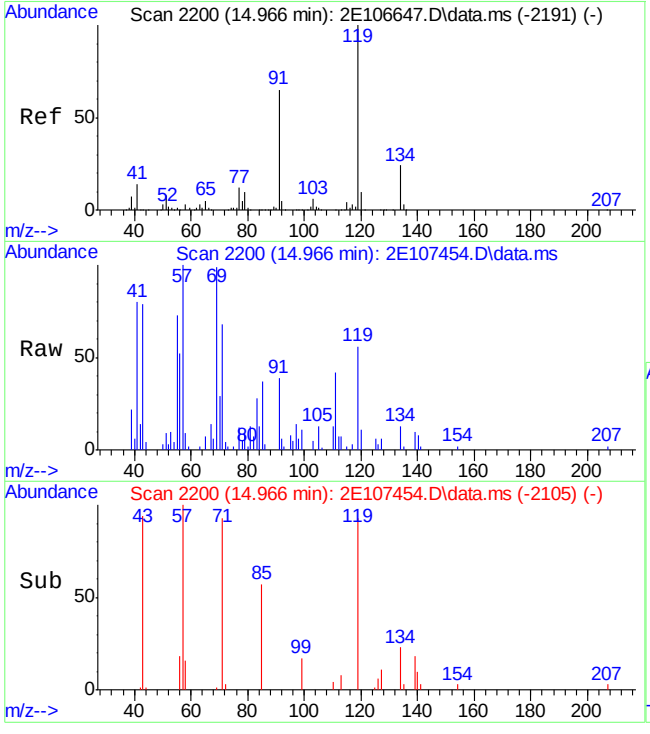


#116
1,3,5-trimethylbenzene
Concen: 121.01 ug/L
RT: 14.625 min Scan# 2135
Delta R.T. -0.005 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion:105 Resp: 1197124

Ion	Ratio	Lower	Upper
105	100		
120	50.5	21.1	81.1
119	12.7	0.0	42.8

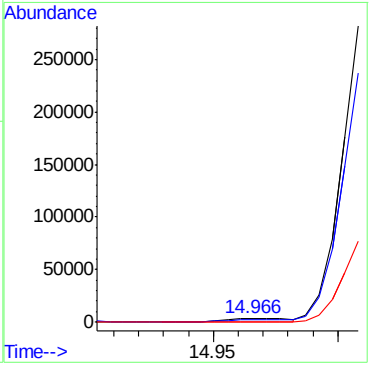


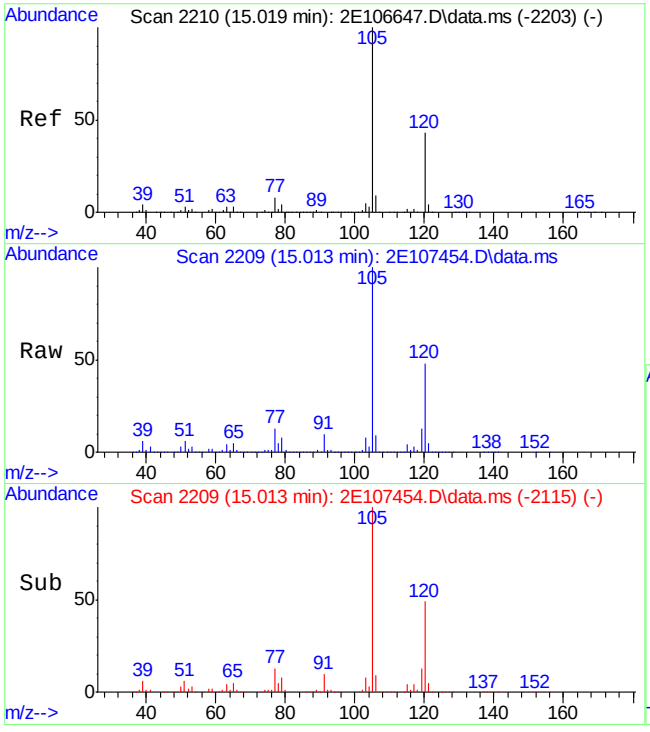


#117
tert-butylbenzene
Concen: 0.75 ug/L
RT: 14.966 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion:119 Resp: 6141

Ion	Ratio	Lower	Upper
119	100		
91	53.8	34.9	94.9
117	2.9	0.0	33.0

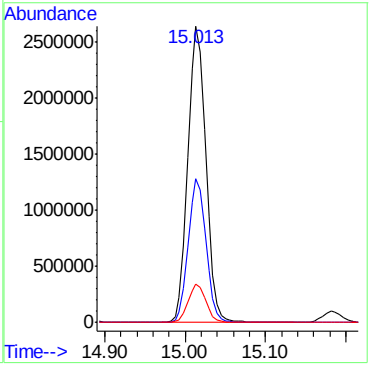


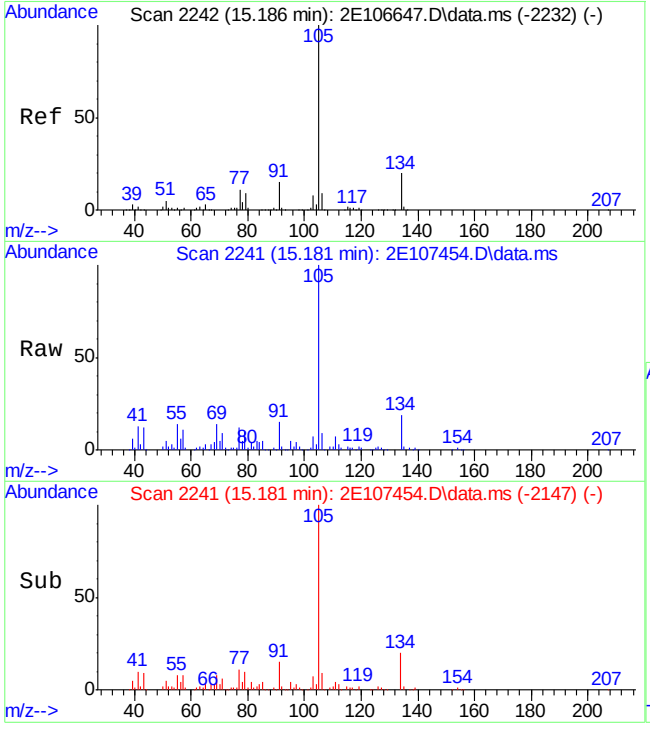


#119
1,2,4-trimethylbenzene
Concen: 443.36 ug/L
RT: 15.013 min Scan# 2209
Delta R.T. -0.005 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion:105 Resp: 4126955

Ion	Ratio	Lower	Upper
105	100		
120	48.4	16.9	76.9
119	12.9	0.0	43.0

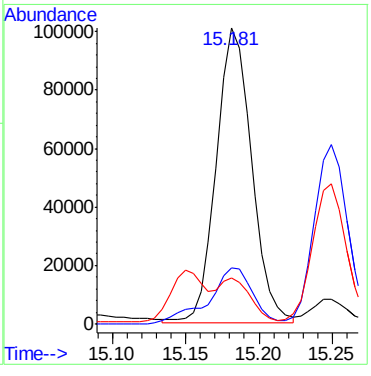


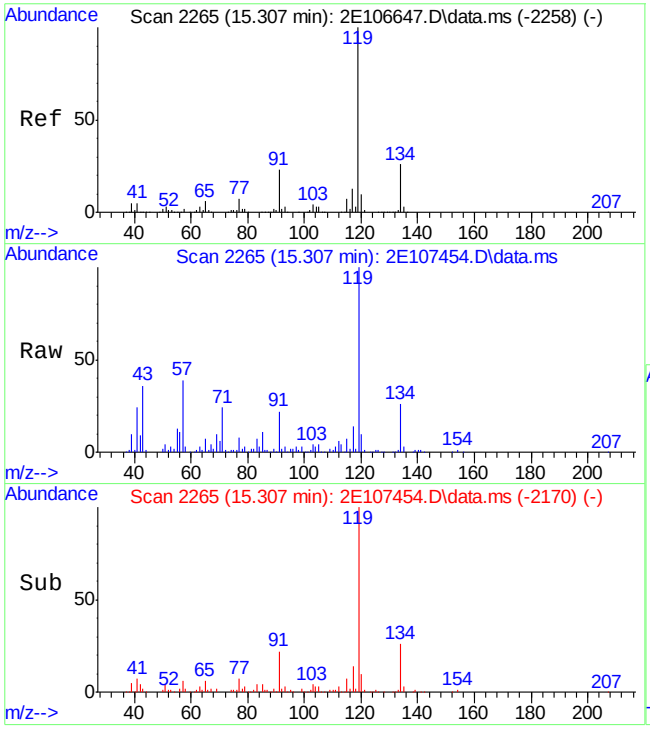


#120
sec-butylbenzene
Concen: 13.15 ug/L
RT: 15.181 min Scan# 2241
Delta R.T. -0.005 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion:105 Resp: 168634

Ion	Ratio	Lower	Upper
105	100		
134	18.1	0.0	50.1
91	12.3	0.0	44.7

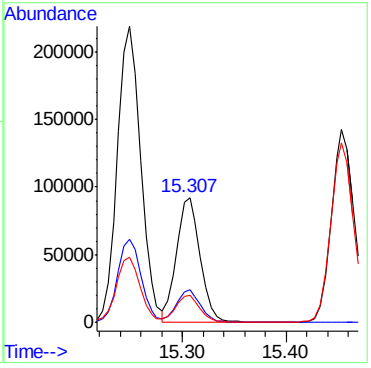


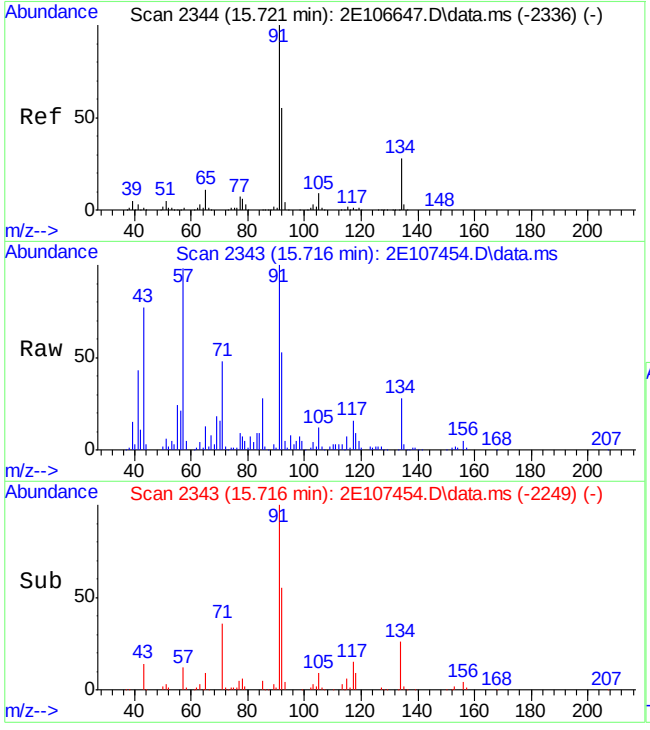


#122
p-isopropyltoluene
Concen: 13.72 ug/L
RT: 15.307 min Scan# 2265
Delta R.T. 0.000 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion:119 Resp: 146155

Ion	Ratio	Lower	Upper
119	100		
134	26.3	0.0	55.9
91	21.7	0.0	52.6

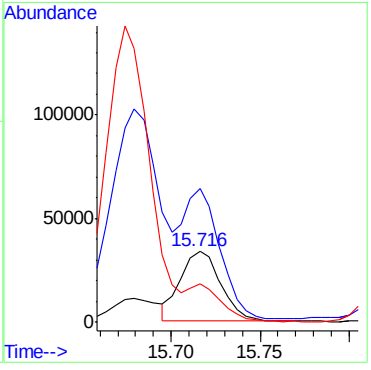




#127
n-butylbenzene
Concen: 9.87 ug/L
RT: 15.716 min Scan# 2343
Delta R.T. -0.005 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

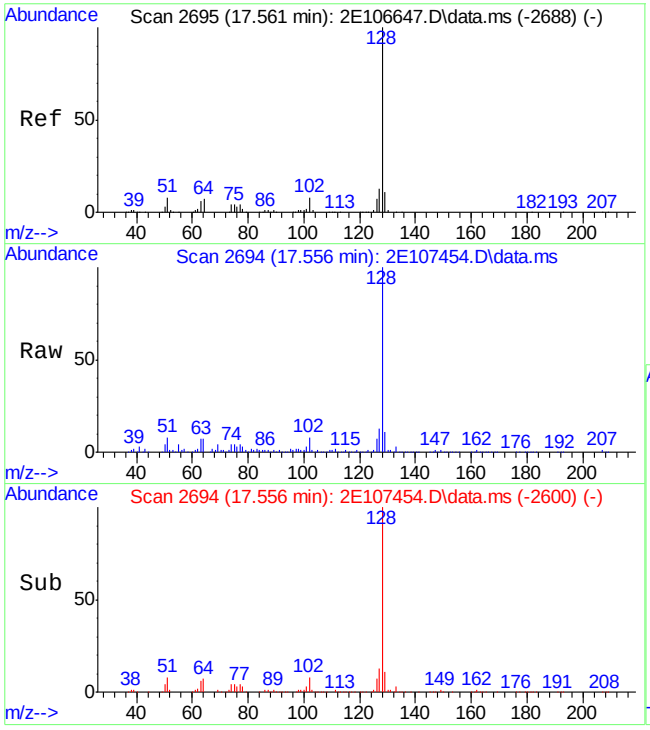
Tgt Ion: 92 Resp: 53609

Ion	Ratio	Lower	Upper
92	100		
91	186.0	150.8	210.8
134	52.4	19.8	79.8



7.1.10

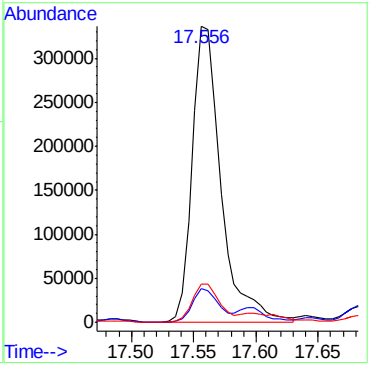
7



#133
naphthalene
Concen: 55.50 ug/L
RT: 17.556 min Scan# 2694
Delta R.T. -0.005 min
Lab File: 2E107454.D
Acq: 21 Oct 2014 8:06 pm

Tgt Ion:128 Resp: 539337

Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	41.0
127	12.7	0.0	42.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107485.D
Acq On : 22 Oct 2014 4:45 pm
Operator : DIXITAR
Sample : jb79217-10
Misc : MS75578,V2E4808,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 23 16:23:59 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

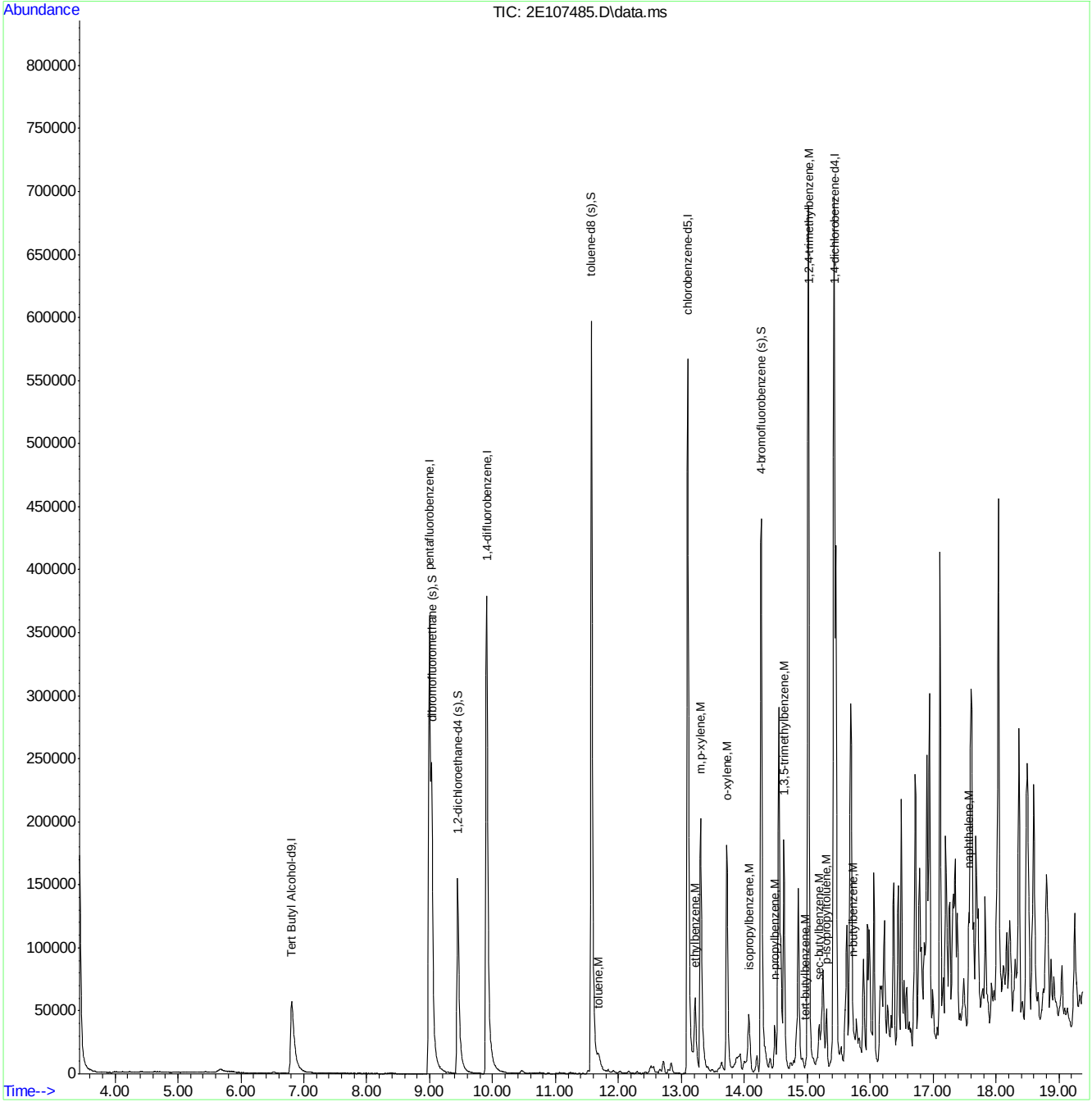
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.808	65	154268	500.00	ug/L	-0.02
5) pentafluorobenzene	8.994	168	361221	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	432745	50.00	ug/L	0.00
88) chlorobenzene-d5	13.100	117	366870	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	194145	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	125916	57.29	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 114.58%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	133896	57.00	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.00%			
80) toluene-d8 (s)	11.569	98	498377	57.65	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 115.30%			
106) 4-bromofluorobenzene (s)	14.269	95	179864	56.11	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 112.22%			
Target Compounds						Qvalue
82) toluene	11.684	92	6908	1.10	ug/L	91
98) ethylbenzene	13.210	91	28898	2.47	ug/L	94
99) m,p-xylene	13.304	106	75433	16.50	ug/L	99
100) o-xylene	13.724	106	55303	11.69	ug/L	99
105) isopropylbenzene	14.070	105	21736	1.89	ug/L	97
112) n-propylbenzene	14.484	91	31211	2.47	ug/L	98
116) 1,3,5-trimethylbenzene	14.631	105	110416	11.28	ug/L	99
117) tert-butylbenzene	14.971	119	1226	0.15	ug/L	87
119) 1,2,4-trimethylbenzene	15.019	105	407664	44.26	ug/L	99
120) sec-butylbenzene	15.186	105	19730	1.55	ug/L	83
122) p-isopropyltoluene	15.307	119	18744	1.78	ug/L	98
127) n-butylbenzene	15.721	92	8700	1.62	ug/L	90
133) naphthalene	17.567	128	81748	8.50	ug/L	100

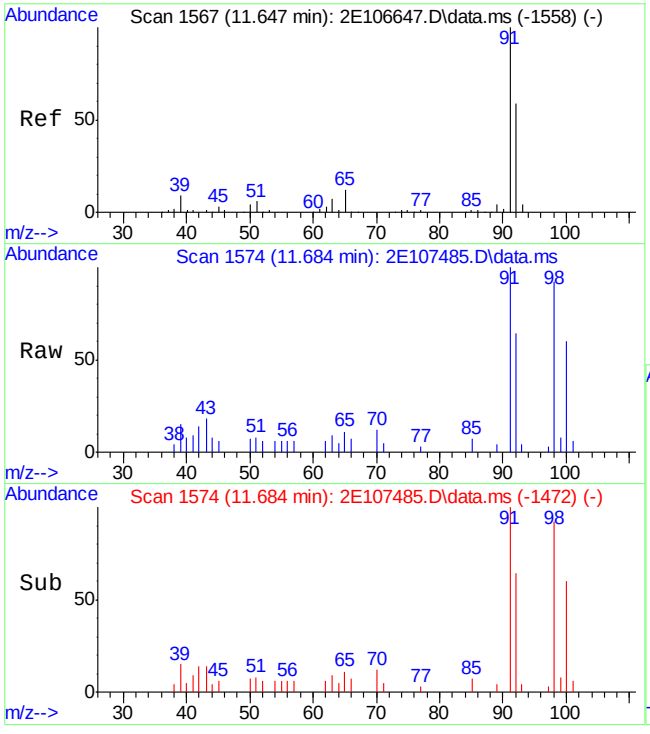
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107485.D
Acq On : 22 Oct 2014 4:45 pm
Operator : DIXITAR
Sample : jb79217-10
Misc : MS75578,V2E4808,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 23 16:23:59 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

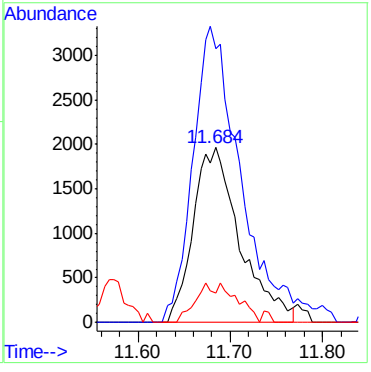


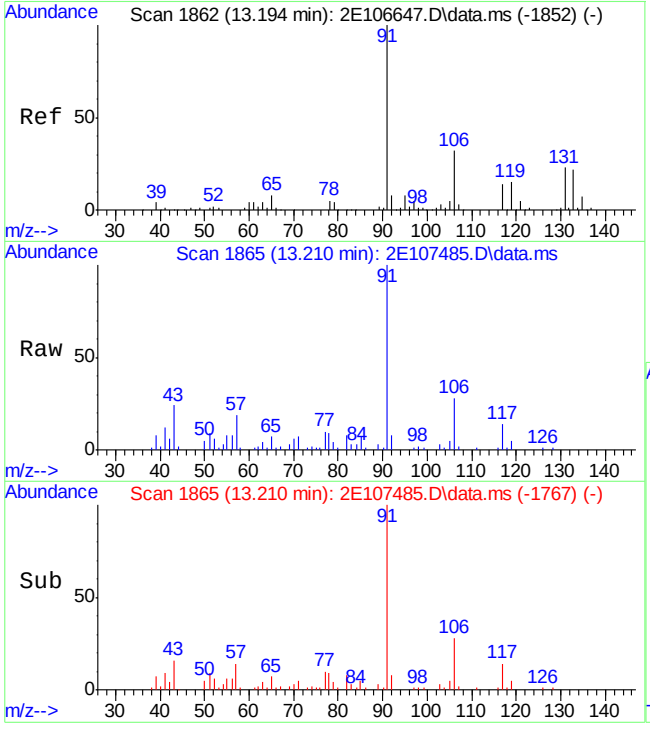


#82
toluene
Concen: 1.10 ug/L
RT: 11.684 min Scan# 1574
Delta R.T. 0.037 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion: 92 Resp: 6908

Ion	Ratio	Lower	Upper
92	100		
91	157.0	139.5	199.5
65	16.6	0.0	49.6

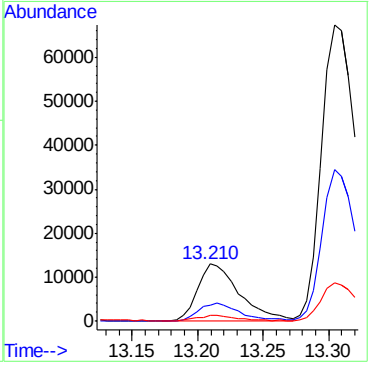


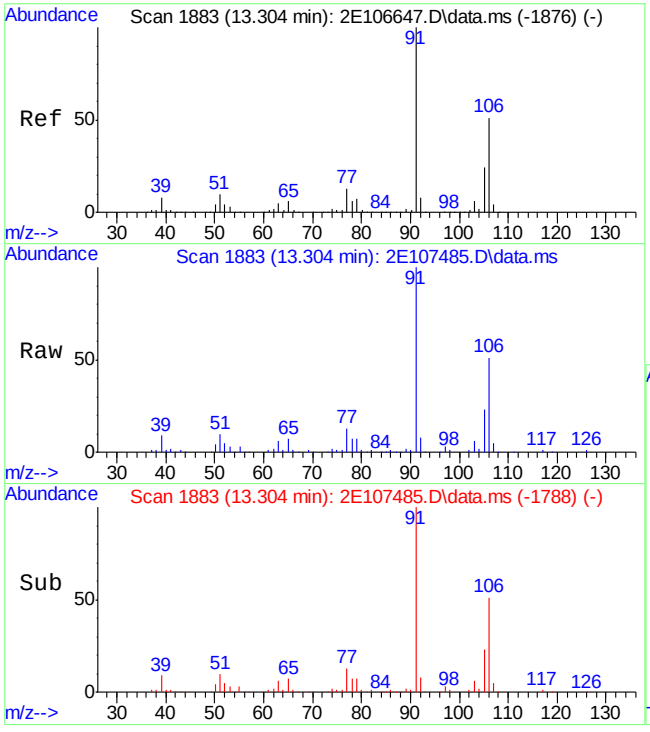


#98
ethylbenzene
Concen: 2.47 ug/L
RT: 13.210 min Scan# 1865
Delta R.T. 0.016 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion: 91 Resp: 28898

Ion	Ratio	Lower	Upper
91	100		
106	28.4	1.8	61.8
77	10.1	0.0	38.5

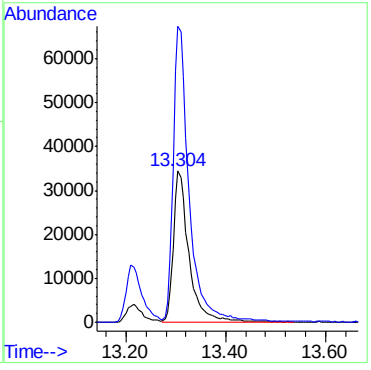


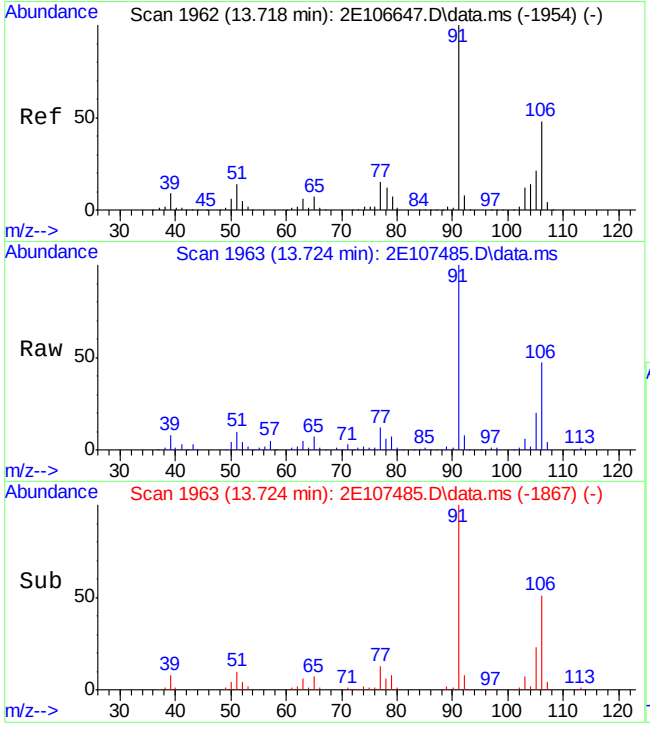


#99
m,p-xylene
Concen: 16.50 ug/L
RT: 13.304 min Scan# 1883
Delta R.T. 0.000 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion:106 Resp: 75433

Ion	Ratio	Lower	Upper
106	100		
91	195.1	137.1	254.7

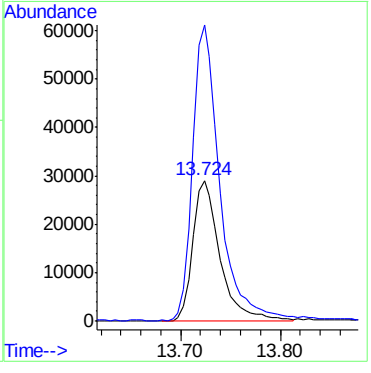


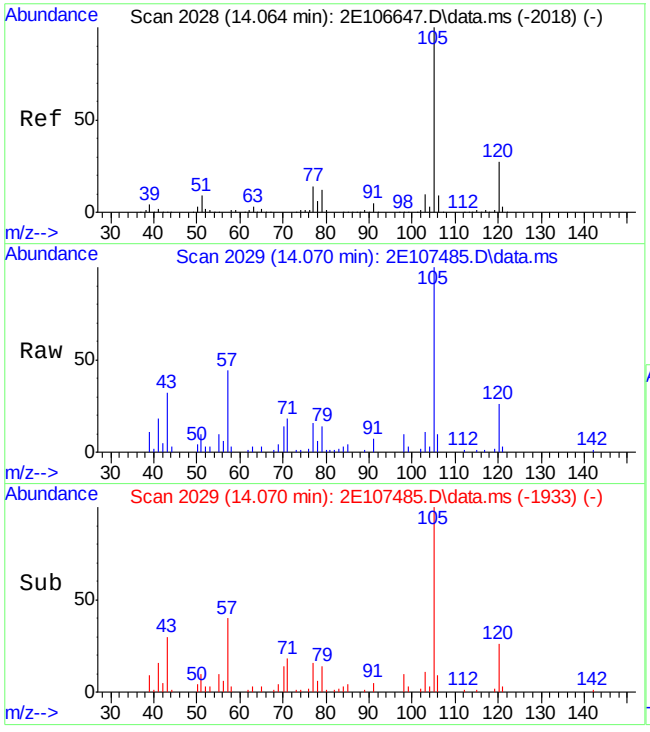


#100
o-xylene
Concen: 11.69 ug/L
RT: 13.724 min Scan# 1963
Delta R.T. 0.005 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion:106 Resp: 55303

Ion	Ratio	Lower	Upper
106	100		
91	210.0	145.5	270.1

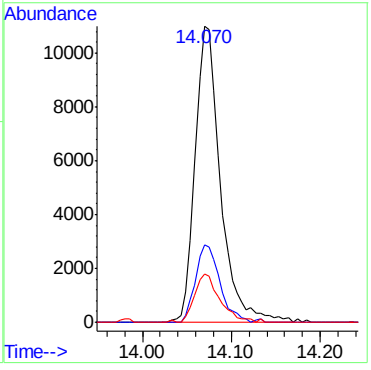


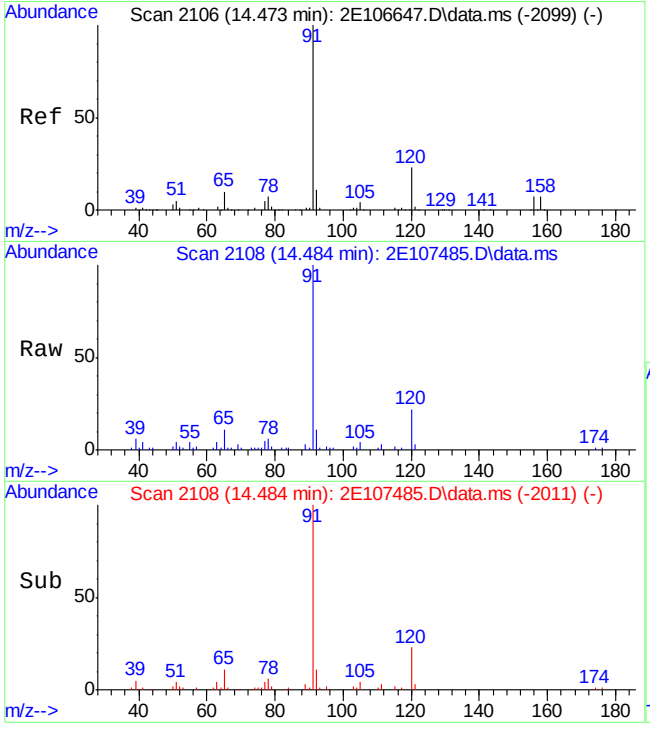


#105
isopropylbenzene
Concen: 1.89 ug/L
RT: 14.070 min Scan# 2029
Delta R.T. 0.005 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion:105 Resp: 21736

Ion	Ratio	Lower	Upper
105	100		
120	26.2	0.0	56.7
77	16.2	0.0	44.0

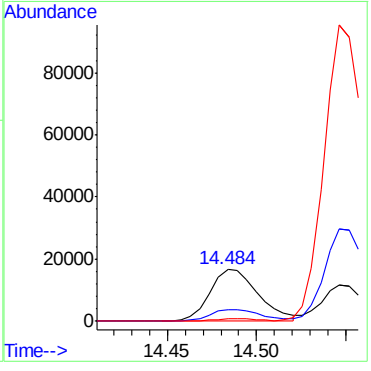


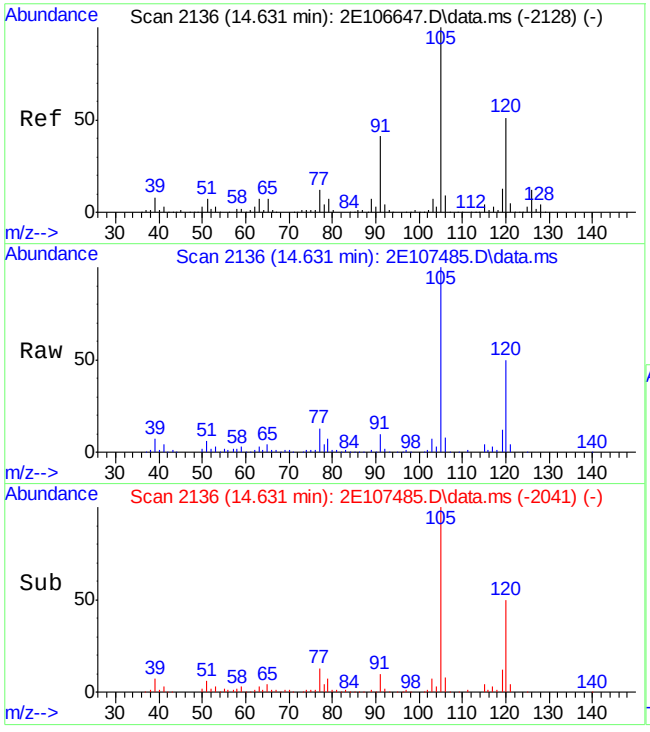


#112
n-propylbenzene
Concen: 2.47 ug/L
RT: 14.484 min Scan# 2108
Delta R.T. 0.010 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion: 91 Resp: 31211

Ion	Ratio	Lower	Upper
91	100		
120	22.4	0.0	53.4
105	3.8	0.0	33.7

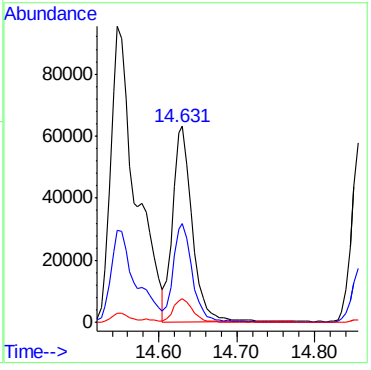


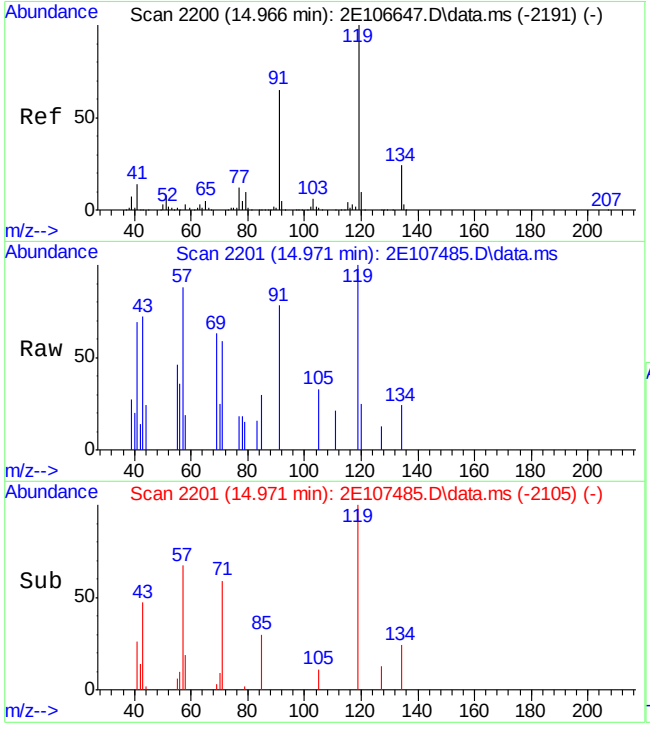


#116
1,3,5-trimethylbenzene
Concen: 11.28 ug/L
RT: 14.631 min Scan# 2136
Delta R.T. -0.000 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion:105 Resp: 110416

Ion	Ratio	Lower	Upper
105	100		
120	50.4	21.1	81.1
119	12.0	0.0	42.8

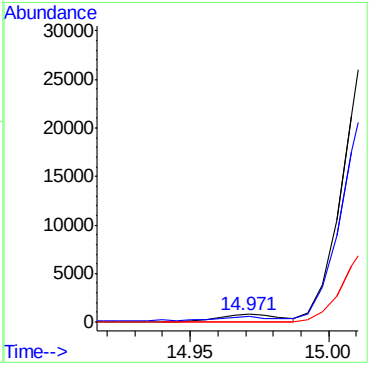


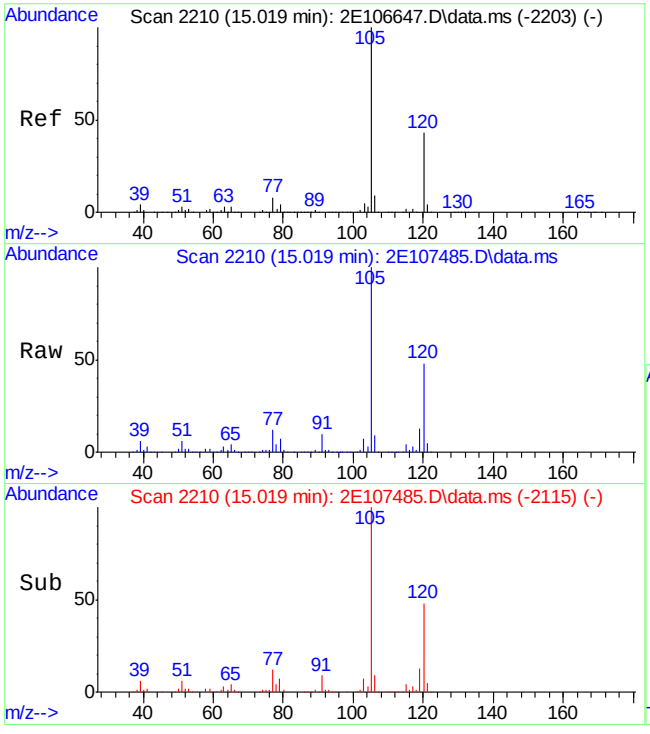


#117
tert-butylbenzene
Concen: 0.15 ug/L
RT: 14.971 min Scan# 2201
Delta R.T. 0.005 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion:119 Resp: 1226

Ion	Ratio	Lower	Upper
119	100		
91	54.7	34.9	94.9
117	0.0	0.0	33.0

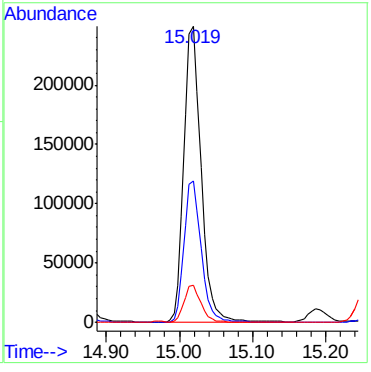


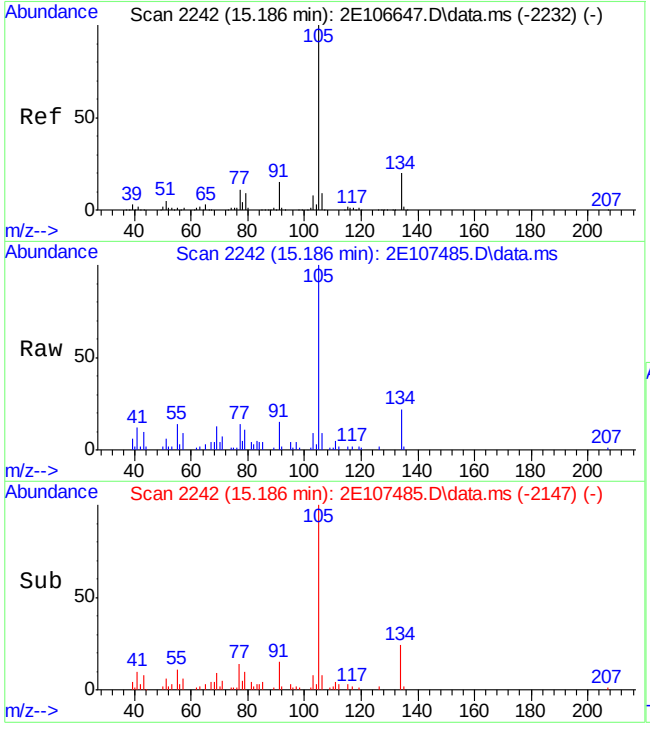


#119
1,2,4-trimethylbenzene
Concen: 44.26 ug/L
RT: 15.019 min Scan# 2210
Delta R.T. 0.001 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion:105 Resp: 407664

Ion	Ratio	Lower	Upper
105	100		
120	47.9	16.9	76.9
119	12.6	0.0	43.0

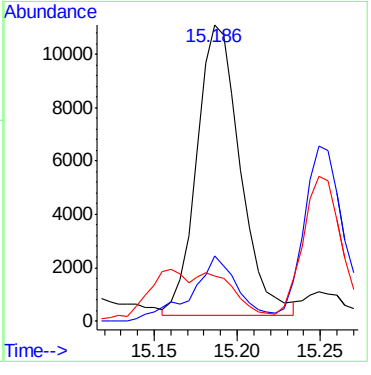


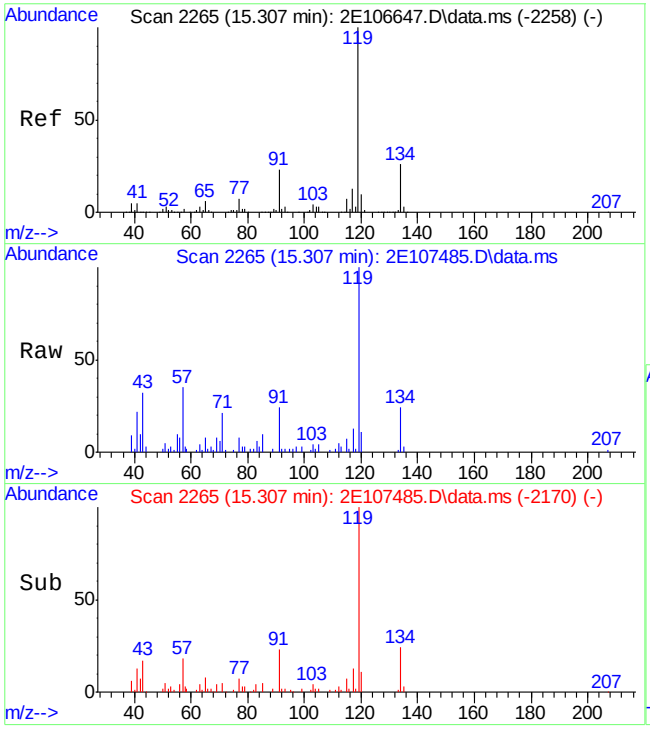


#120
sec-butylbenzene
Concen: 1.55 ug/L
RT: 15.186 min Scan# 2242
Delta R.T. -0.000 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion:105 Resp: 19730

Ion	Ratio	Lower	Upper
105	100		
134	17.9	0.0	50.1
91	1.1	0.0	44.7

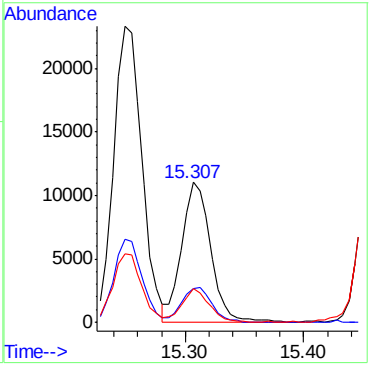


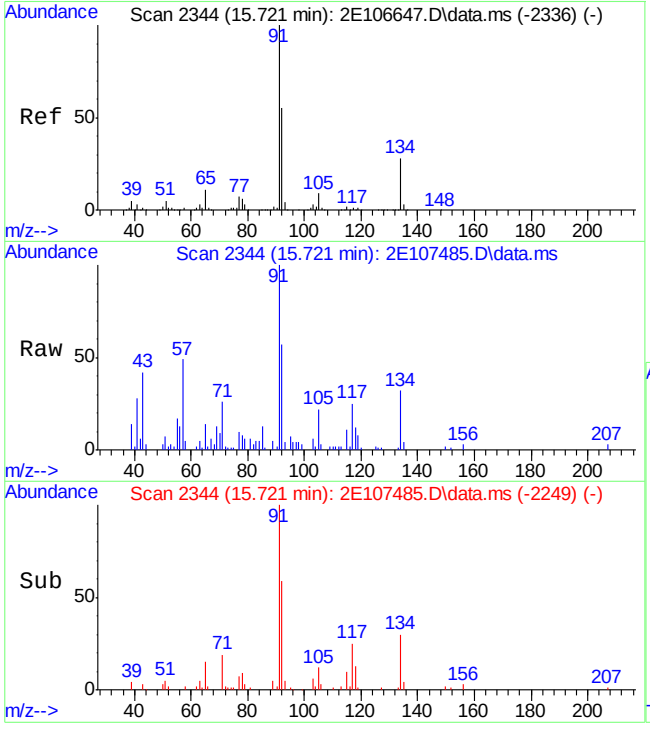


#122
p-isopropyltoluene
Concen: 1.78 ug/L
RT: 15.307 min Scan# 2265
Delta R.T. -0.000 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion:119 Resp: 18744

Ion	Ratio	Lower	Upper
119	100		
134	24.0	0.0	55.9
91	22.9	0.0	52.6

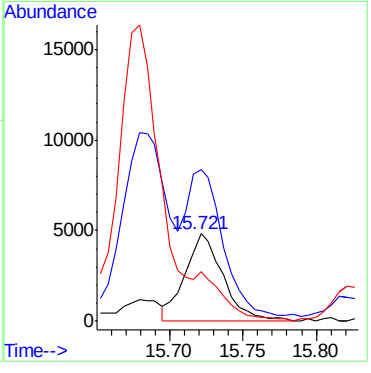


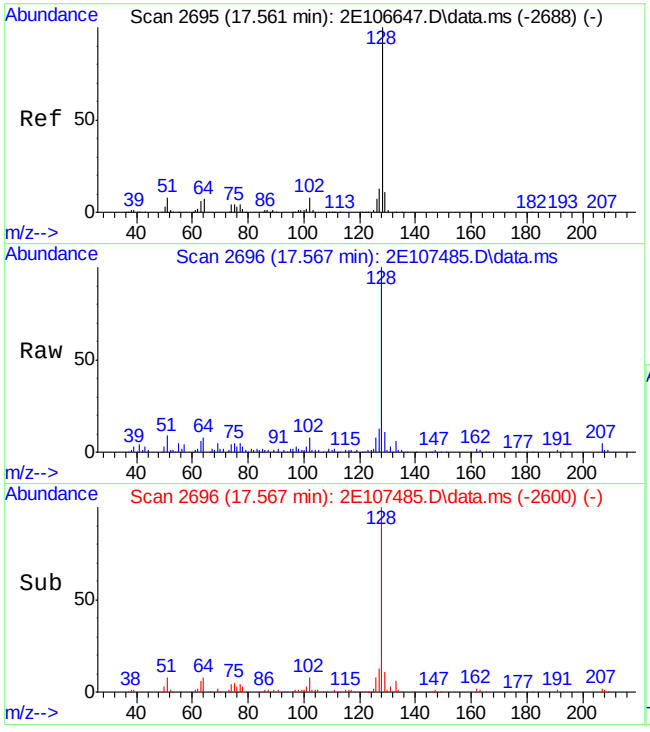


#127
n-butylbenzene
Concen: 1.62 ug/L
RT: 15.721 min Scan# 2344
Delta R.T. -0.000 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion: 92 Resp: 8700

Ion	Ratio	Lower	Upper
92	100		
91	165.9	150.8	210.8
134	56.3	19.8	79.8

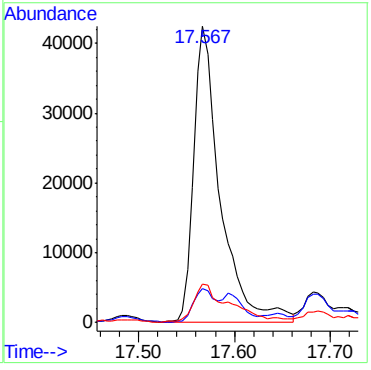




#133
naphthalene
Concen: 8.50 ug/L
RT: 17.567 min Scan# 2696
Delta R.T. 0.005 min
Lab File: 2E107485.D
Acq: 22 Oct 2014 4:45 pm

Tgt Ion:128 Resp: 81748

Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	41.0
127	12.8	0.0	42.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107479.D
Acq On : 22 Oct 2014 1:46 pm
Operator : DIXITAR
Sample : jb79217-11
Misc : MS75578,V2E4808,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 23 16:19:34 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

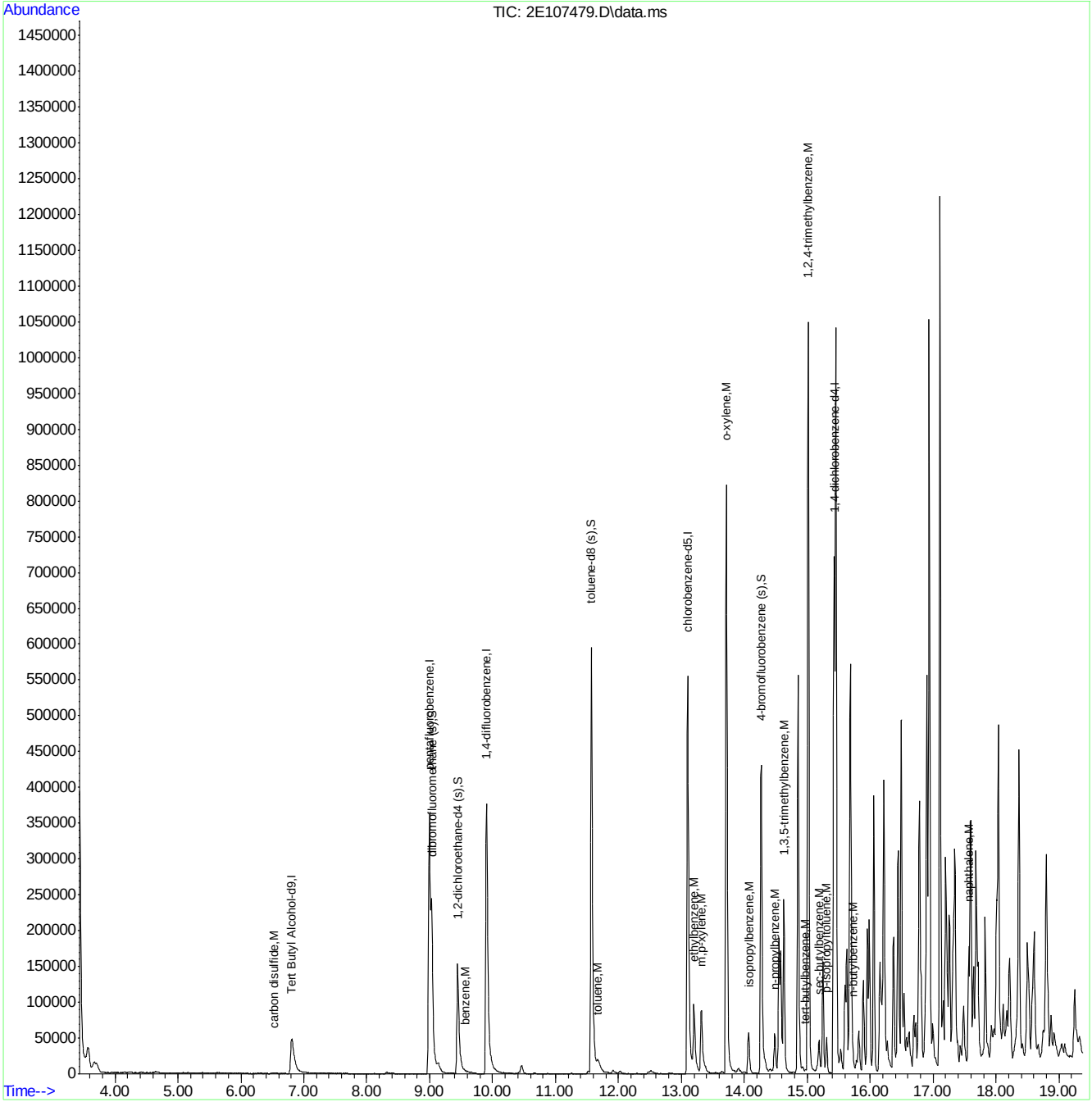
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.803	65	130977	500.00	ug/L	-0.02
5) pentafluorobenzene	8.994	168	362648	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.901	114	426911	50.00	ug/L	-0.01
88) chlorobenzene-d5	13.100	117	368465	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	194664	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	127091	57.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 115.20%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	134252	56.93	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 113.86%			
80) toluene-d8 (s)	11.569	98	498064	58.40	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 116.80%			
106) 4-bromofluorobenzene (s)	14.269	95	178818	55.63	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 111.26%			
Target Compounds						Qvalue
26) carbon disulfide	6.520	76	2406	0.26	ug/L	85
65) benzene	9.561	78	3204	0.30	ug/L	94
82) toluene	11.674	92	11295	1.83	ug/L	96
98) ethylbenzene	13.204	91	83624	7.11	ug/L	97
99) m,p-xylene	13.315	106	32710	7.13	ug/L	98
100) o-xylene	13.713	106	255328	53.74	ug/L	99
105) isopropylbenzene	14.070	105	44624	3.86	ug/L	99
112) n-propylbenzene	14.484	91	50622	4.00	ug/L	99
116) 1,3,5-trimethylbenzene	14.625	105	151926	15.48	ug/L	98
117) tert-butylbenzene	14.971	119	2660	0.33	ug/L	96
119) 1,2,4-trimethylbenzene	15.013	105	613180	66.40	ug/L	99
120) sec-butylbenzene	15.186	105	36667	2.88	ug/L	84
122) p-isopropyltoluene	15.307	119	29397	2.78	ug/L	99
127) n-butylbenzene	15.721	92	9441	1.75	ug/L	96
133) naphthalene	17.567	128	134358	13.94	ug/L	99

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

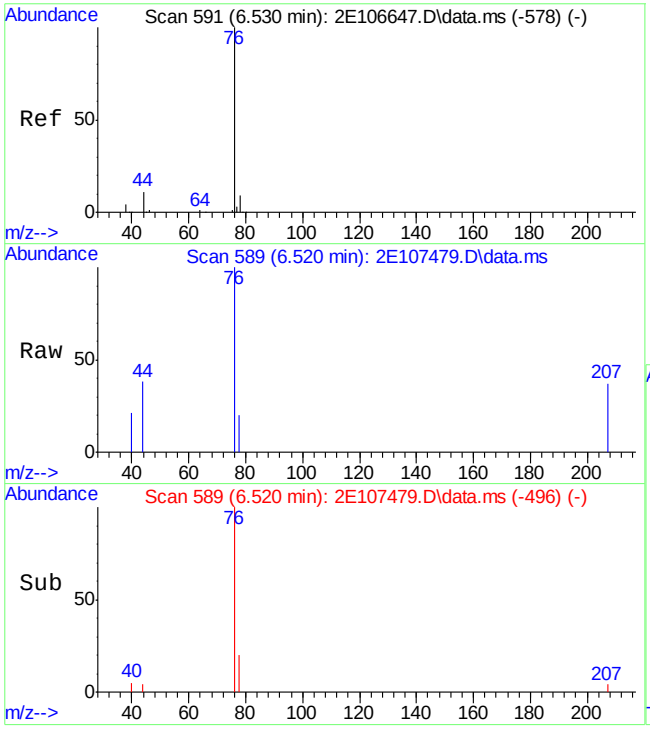
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107479.D
Acq On : 22 Oct 2014 1:46 pm
Operator : DIXITAR
Sample : jb79217-11
Misc : MS75578,V2E4808,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 23 16:19:34 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



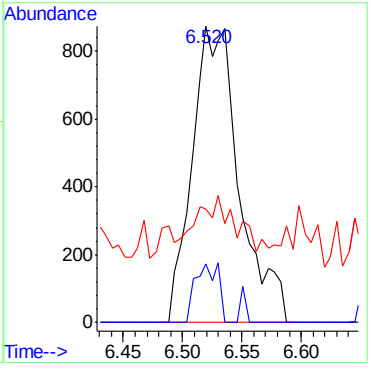
M2E4774.M Thu Oct 23 16:39:15 2014 ACCNJ Page: 2

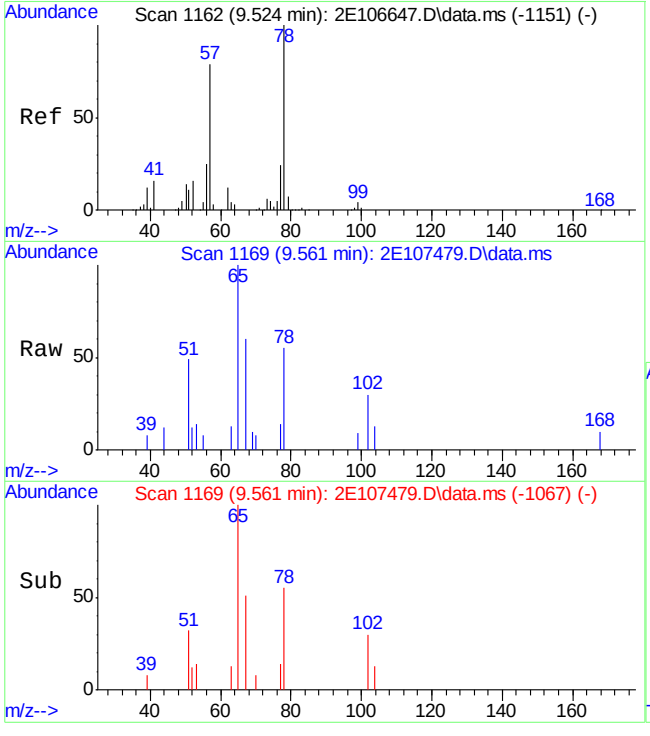


#26
carbon disulfide
Concen: 0.26 ug/L
RT: 6.520 min Scan# 589
Delta R.T. -0.010 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion: 76 Resp: 2406

Ion	Ratio	Lower	Upper
76	100		
78	19.7	0.0	38.9
44	10.0	0.0	40.9

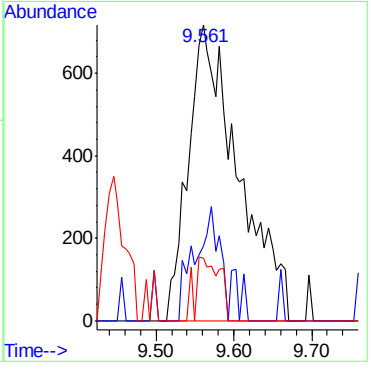


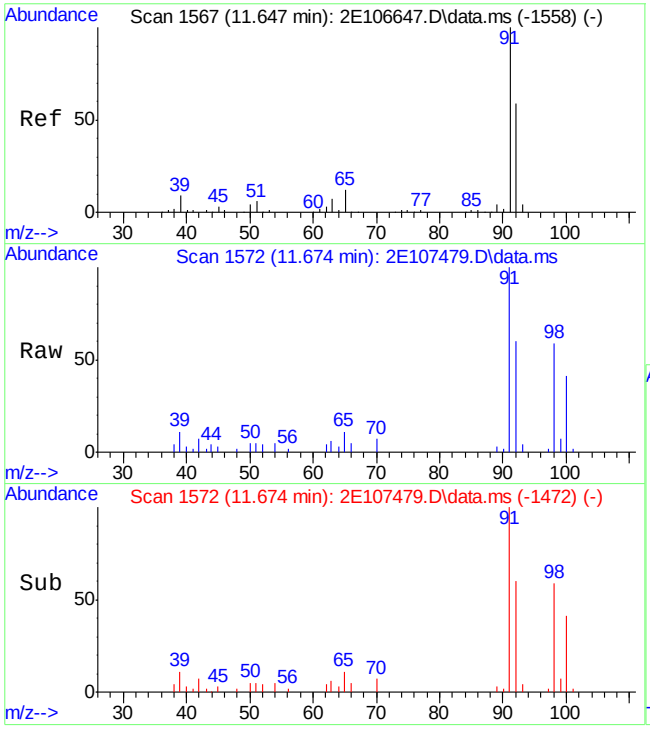


#65
benzene
Concen: 0.30 ug/L
RT: 9.561 min Scan# 1169
Delta R.T. 0.037 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion: 78 Resp: 3204

Ion	Ratio	Lower	Upper
78	100		
77	25.4	0.0	54.0
52	21.3	0.0	46.4

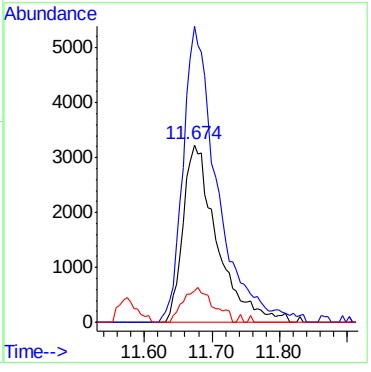


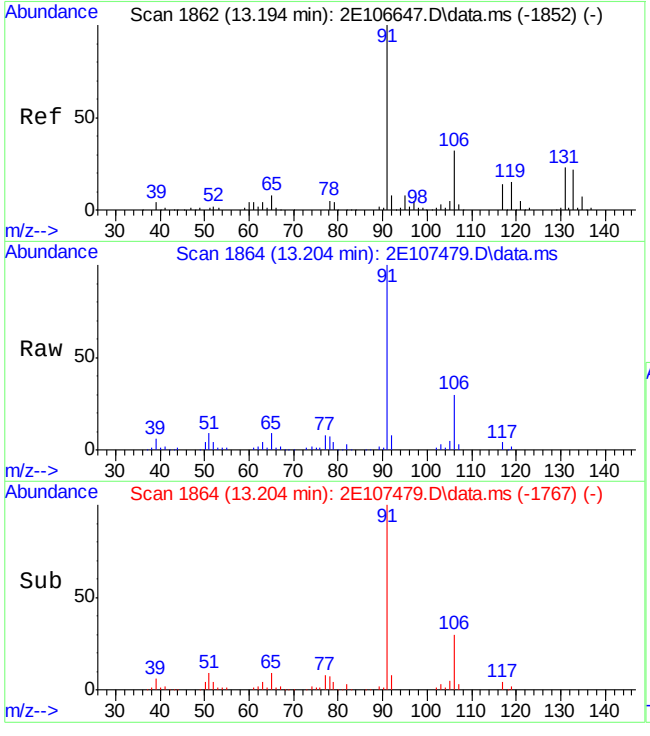


#82
toluene
Concen: 1.83 ug/L
RT: 11.674 min Scan# 1572
Delta R.T. 0.026 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion: 92 Resp: 11295

Ion	Ratio	Lower	Upper
92	100		
91	163.8	139.5	199.5
65	17.8	0.0	49.6

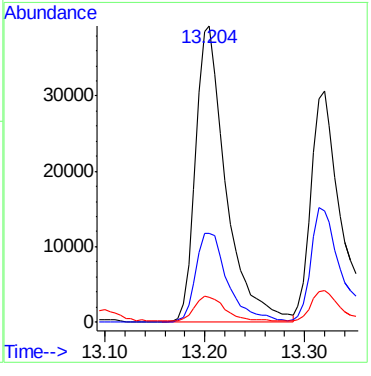


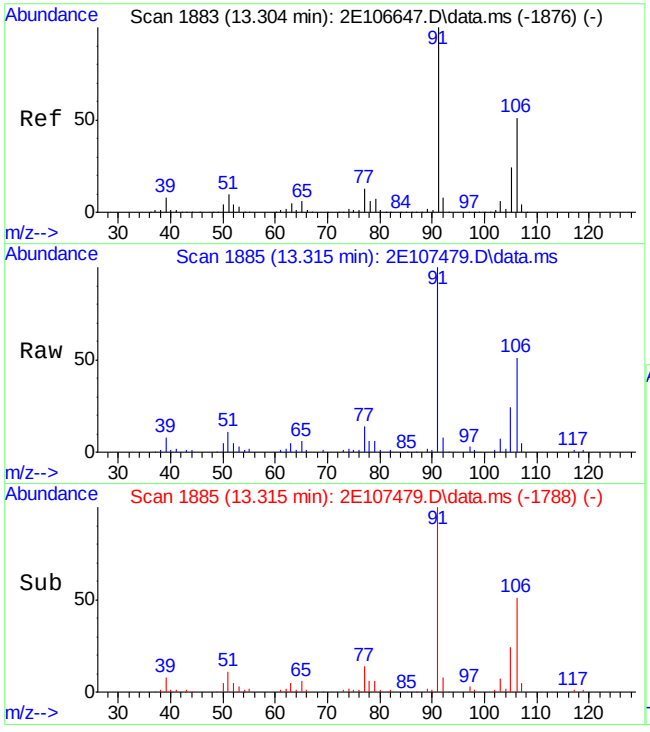


#98
ethylbenzene
Concen: 7.11 ug/L
RT: 13.204 min Scan# 1864
Delta R.T. 0.010 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion: 91 Resp: 83624

Ion	Ratio	Lower	Upper
91	100		
106	30.1	1.8	61.8
77	8.1	0.0	38.5

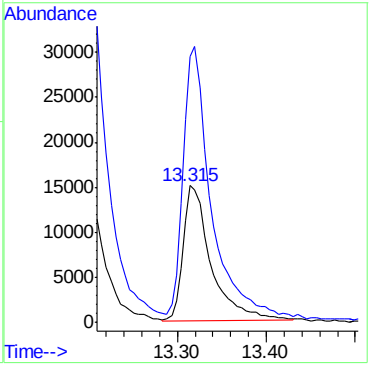


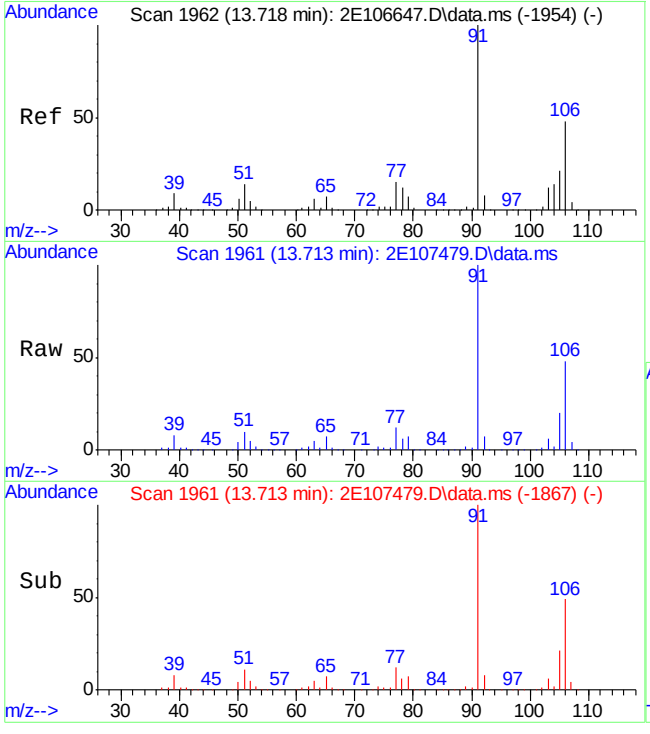


#99
m,p-xylene
Concen: 7.13 ug/L
RT: 13.315 min Scan# 1885
Delta R.T. 0.011 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion:106 Resp: 32710

Ion	Ratio	Lower	Upper
106	100		
91	193.5	137.1	254.7

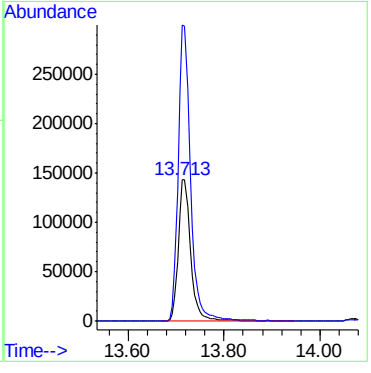




#100
o-xylene
Concen: 53.74 ug/L
RT: 13.713 min Scan# 1961
Delta R.T. -0.005 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

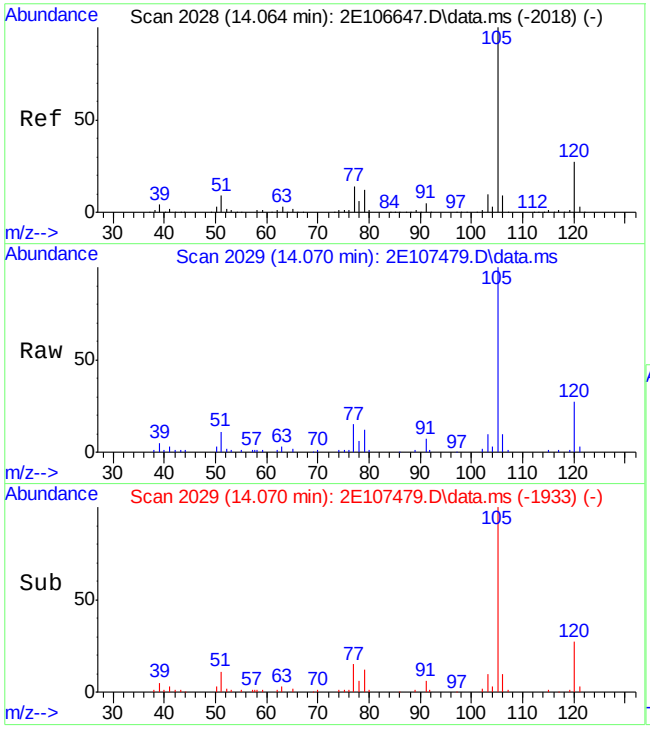
Tgt Ion:106 Resp: 255328

Ion	Ratio	Lower	Upper
106	100		
91	209.7	145.5	270.1



7.1.12

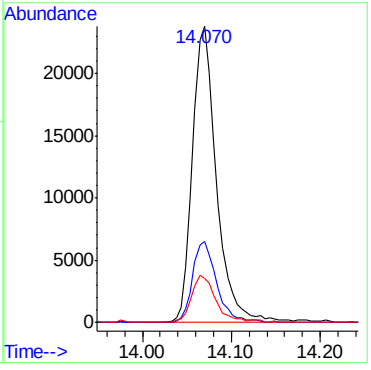
7

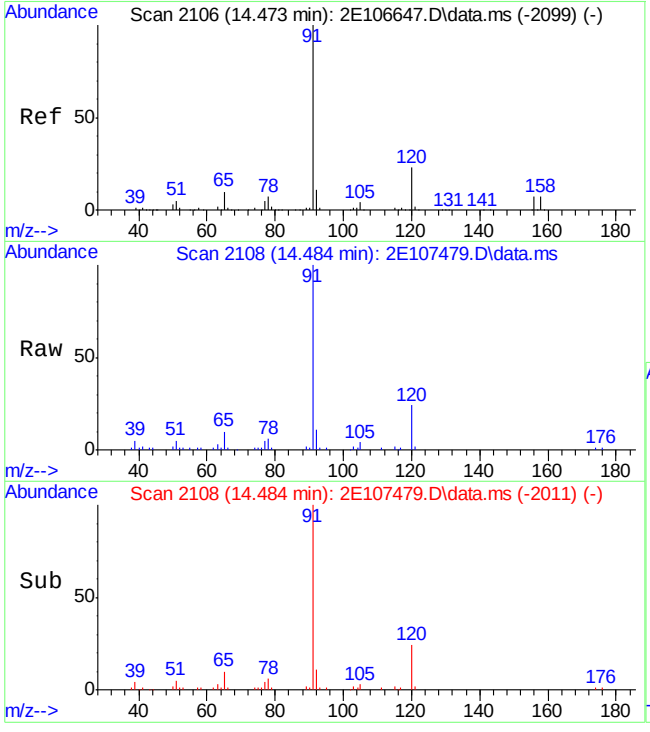


#105
isopropylbenzene
Concen: 3.86 ug/L
RT: 14.070 min Scan# 2029
Delta R.T. 0.005 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion:105 Resp: 44624

Ion	Ratio	Lower	Upper
105	100		
120	27.2	0.0	56.7
77	14.9	0.0	44.0

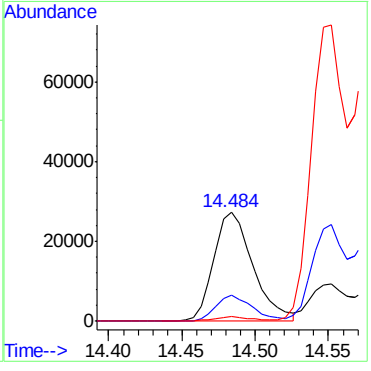


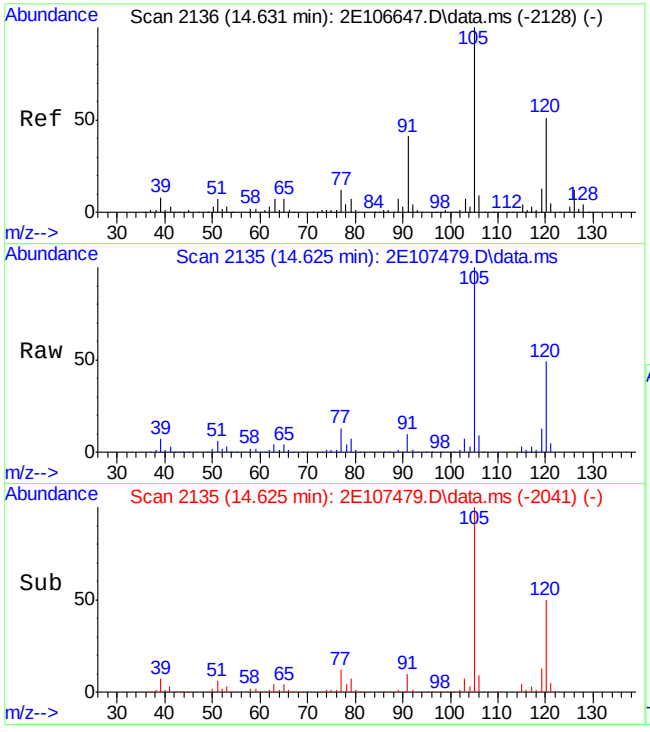


#112
n-propylbenzene
Concen: 4.00 ug/L
RT: 14.484 min Scan# 2108
Delta R.T. 0.010 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion: 91 Resp: 50622

Ion	Ratio	Lower	Upper
91	100		
120	23.8	0.0	53.4
105	3.9	0.0	33.7

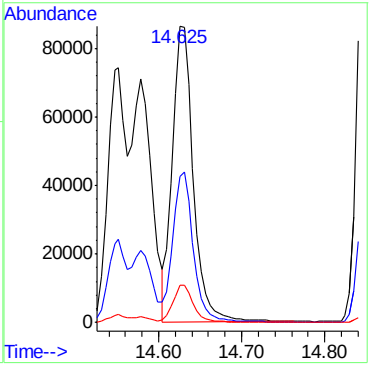


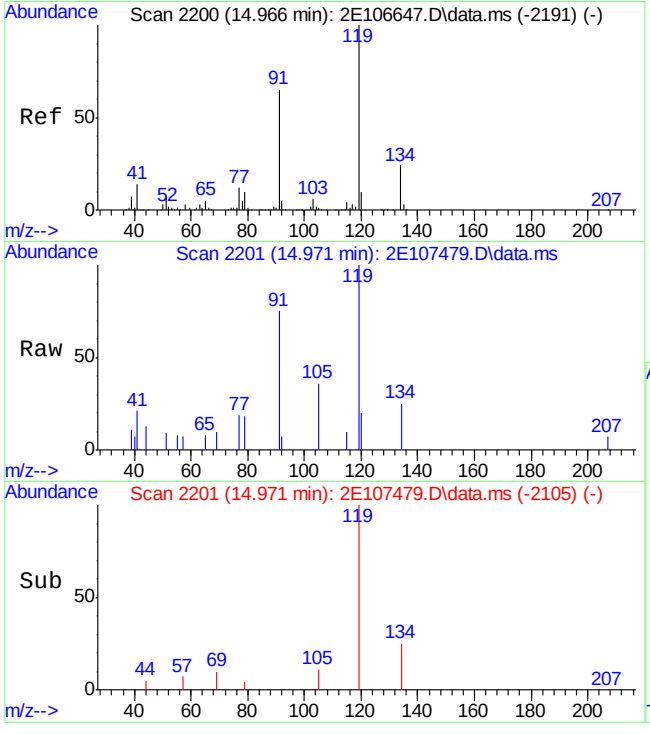


#116
1,3,5-trimethylbenzene
Concen: 15.48 ug/L
RT: 14.625 min Scan# 2135
Delta R.T. -0.005 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion:105 Resp: 151926

Ion	Ratio	Lower	Upper
105	100		
120	49.6	21.1	81.1
119	12.7	0.0	42.8

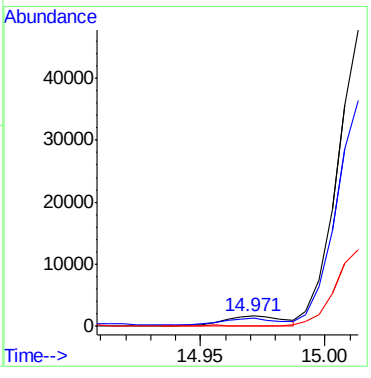


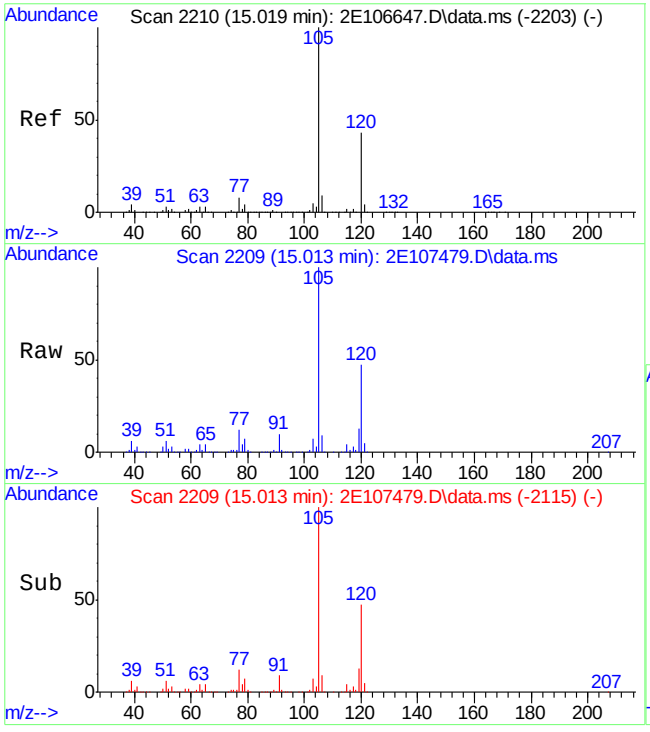


#117
tert-butylbenzene
Concen: 0.33 ug/L
RT: 14.971 min Scan# 2201
Delta R.T. 0.005 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion:119 Resp: 2660

Ion	Ratio	Lower	Upper
119	100		
91	61.6	34.9	94.9
117	0.0	0.0	33.0

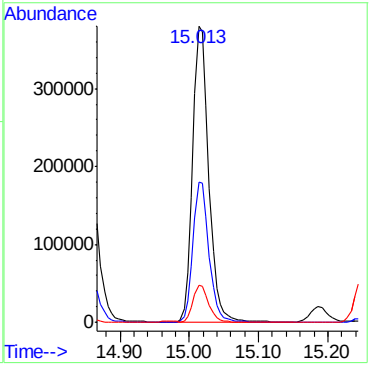


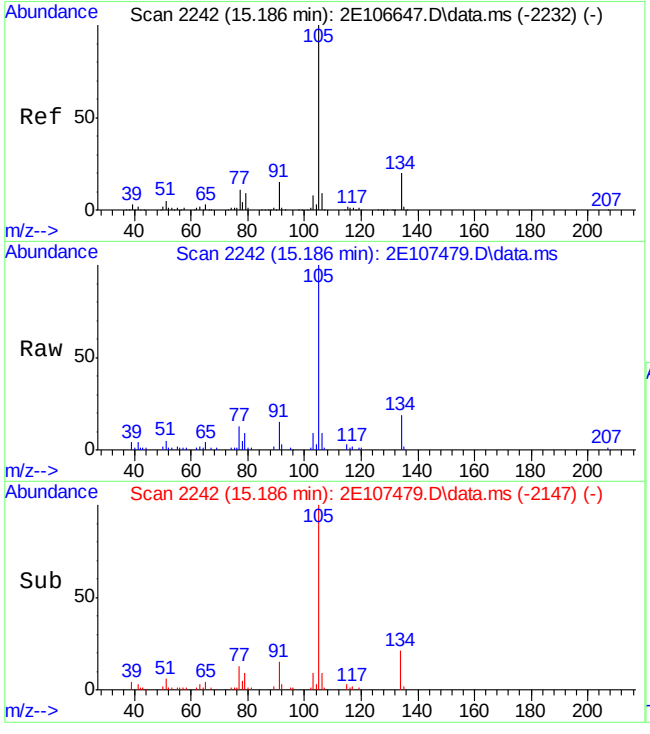


#119
1,2,4-trimethylbenzene
Concen: 66.40 ug/L
RT: 15.013 min Scan# 2209
Delta R.T. -0.005 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion:105 Resp: 613180

Ion	Ratio	Lower	Upper
105	100		
120	47.2	16.9	76.9
119	12.6	0.0	43.0

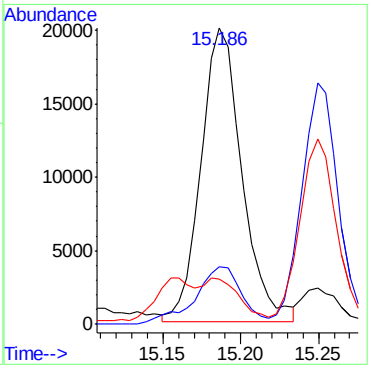


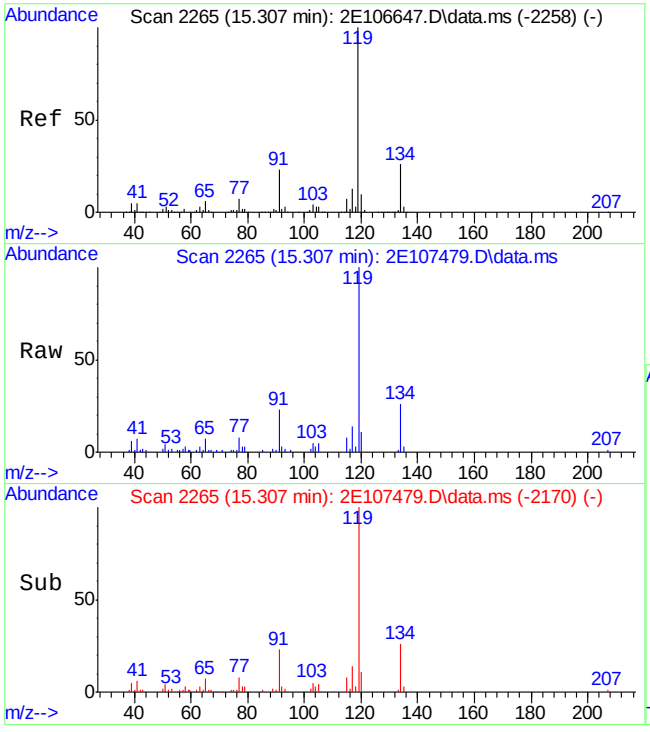


#120
sec-butylbenzene
Concen: 2.88 ug/L
RT: 15.186 min Scan# 2242
Delta R.T. -0.000 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion:105 Resp: 36667

Ion	Ratio	Lower	Upper
105	100		
134	16.8	0.0	50.1
91	3.2	0.0	44.7

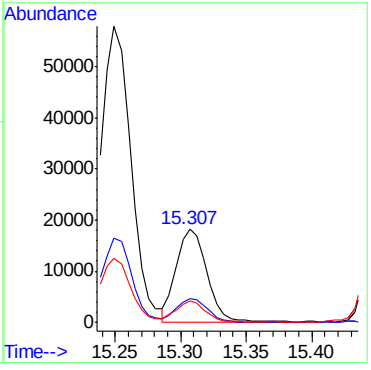


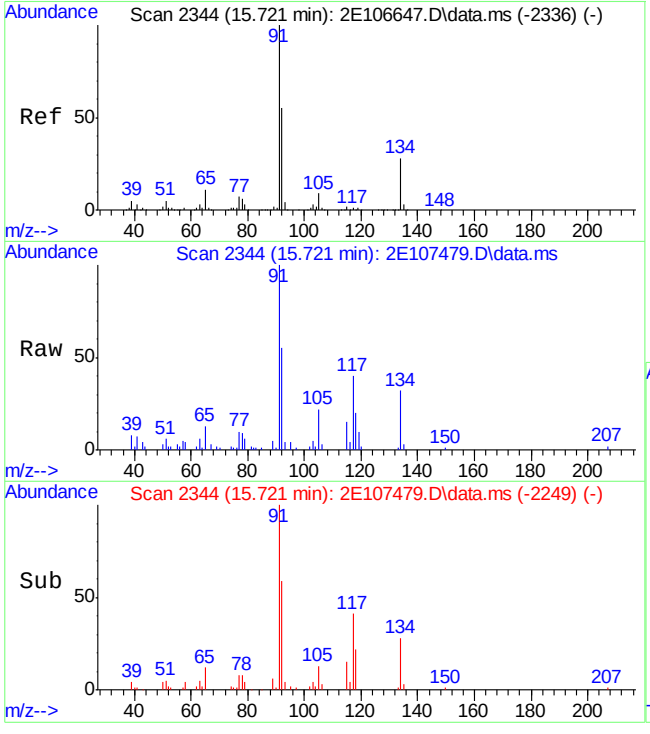


#122
p-isopropyltoluene
Concen: 2.78 ug/L
RT: 15.307 min Scan# 2265
Delta R.T. -0.000 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion:119 Resp: 29397

Ion	Ratio	Lower	Upper
119	100		
134	25.8	0.0	55.9
91	23.2	0.0	52.6

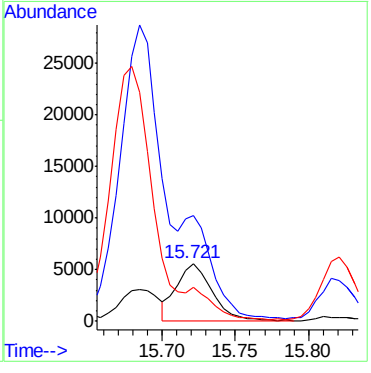


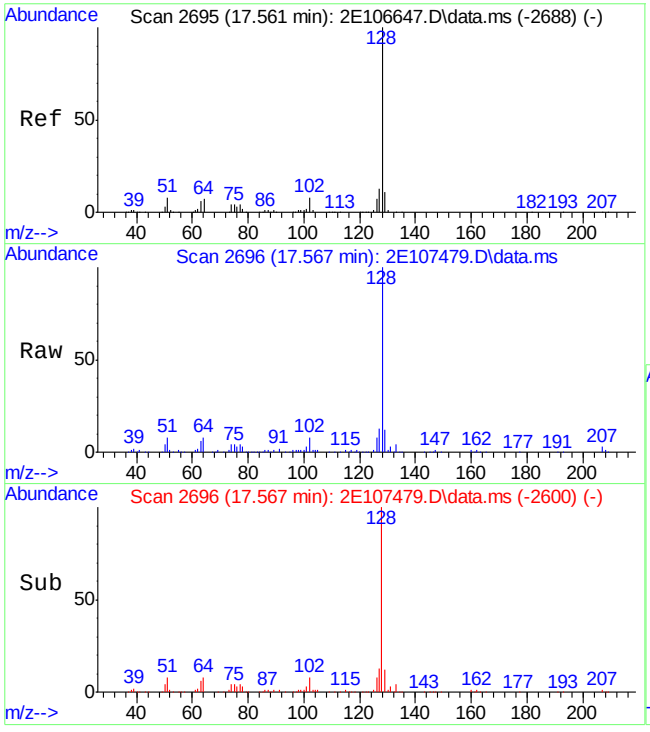


#127
n-butylbenzene
Concen: 1.75 ug/L
RT: 15.721 min Scan# 2344
Delta R.T. -0.000 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion: 92 Resp: 9441

Ion	Ratio	Lower	Upper
92	100		
91	176.5	150.8	210.8
134	54.2	19.8	79.8

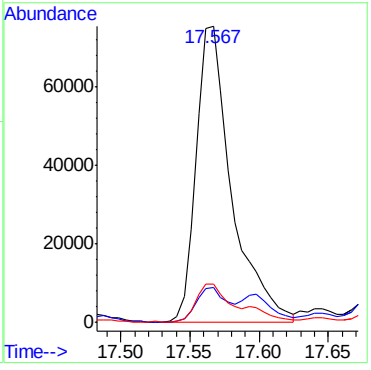




#133
naphthalene
Concen: 13.94 ug/L
RT: 17.567 min Scan# 2696
Delta R.T. 0.005 min
Lab File: 2E107479.D
Acq: 22 Oct 2014 1:46 pm

Tgt Ion:128 Resp: 134358

Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	41.0
127	12.9	0.0	42.8



7.1.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4803\
Data File : 2e107300.d
Acq On : 17 Oct 2014 10:35 am
Operator : DIXITAR
Sample : mb
Misc : MS75473,V2E4803,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 17 16:58:01 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.808	65	137695	500.00	ug/L	-0.02
5) pentafluorobenzene	8.994	168	356062	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	416217	50.00	ug/L	0.00
88) chlorobenzene-d5	13.105	117	353091	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	189085	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.031	113	122300	56.45	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 112.90%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	123057	53.15	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 106.30%			
80) toluene-d8 (s)	11.569	98	476607	57.32	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 114.64%			
106) 4-bromofluorobenzene (s)	14.269	95	167132	53.53	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 107.06%			

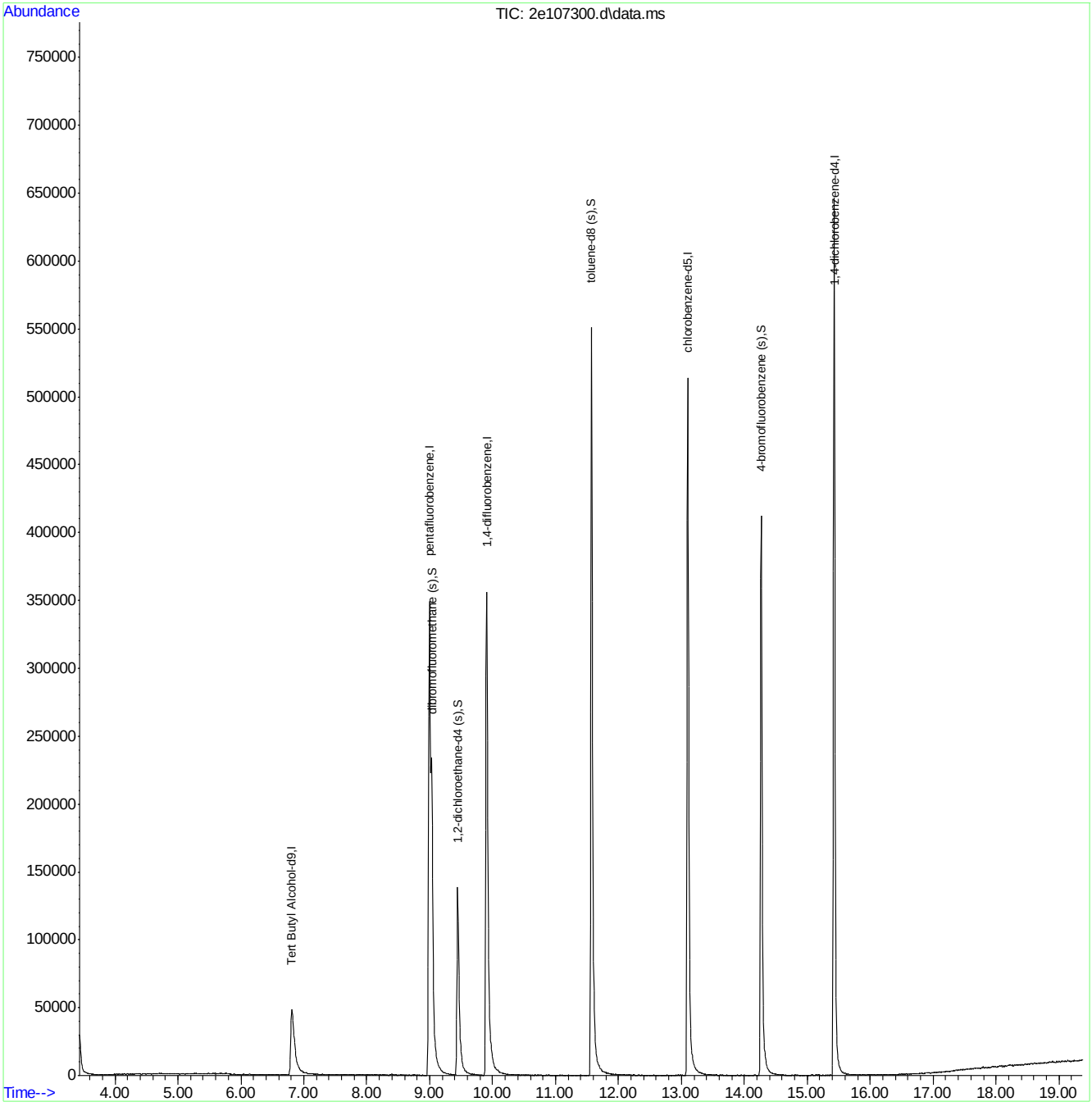
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\V2E4803\
Data File : 2e107300.d
Acq On : 17 Oct 2014 10:35 am
Operator : DIXITAR
Sample : mb
Misc : MS75473,V2E4803,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 17 16:58:01 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107400.D
Acq On : 20 Oct 2014 3:29 pm
Operator : DIXITAR
Sample : mb
Misc : MS75404,V2E4806,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 22 14:35:06 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.808	65	167391	500.00	ug/L	-0.02
5) pentafluorobenzene	8.994	168	386570	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	461188	50.00	ug/L	0.00
88) chlorobenzene-d5	13.105	117	389922	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	202490	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.036	113	135291	57.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 115.04%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	144588	57.52	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 115.04%			
80) toluene-d8 (s)	11.574	98	531297	57.67	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 115.34%			
106) 4-bromofluorobenzene (s)	14.269	95	185159	55.38	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 110.76%			

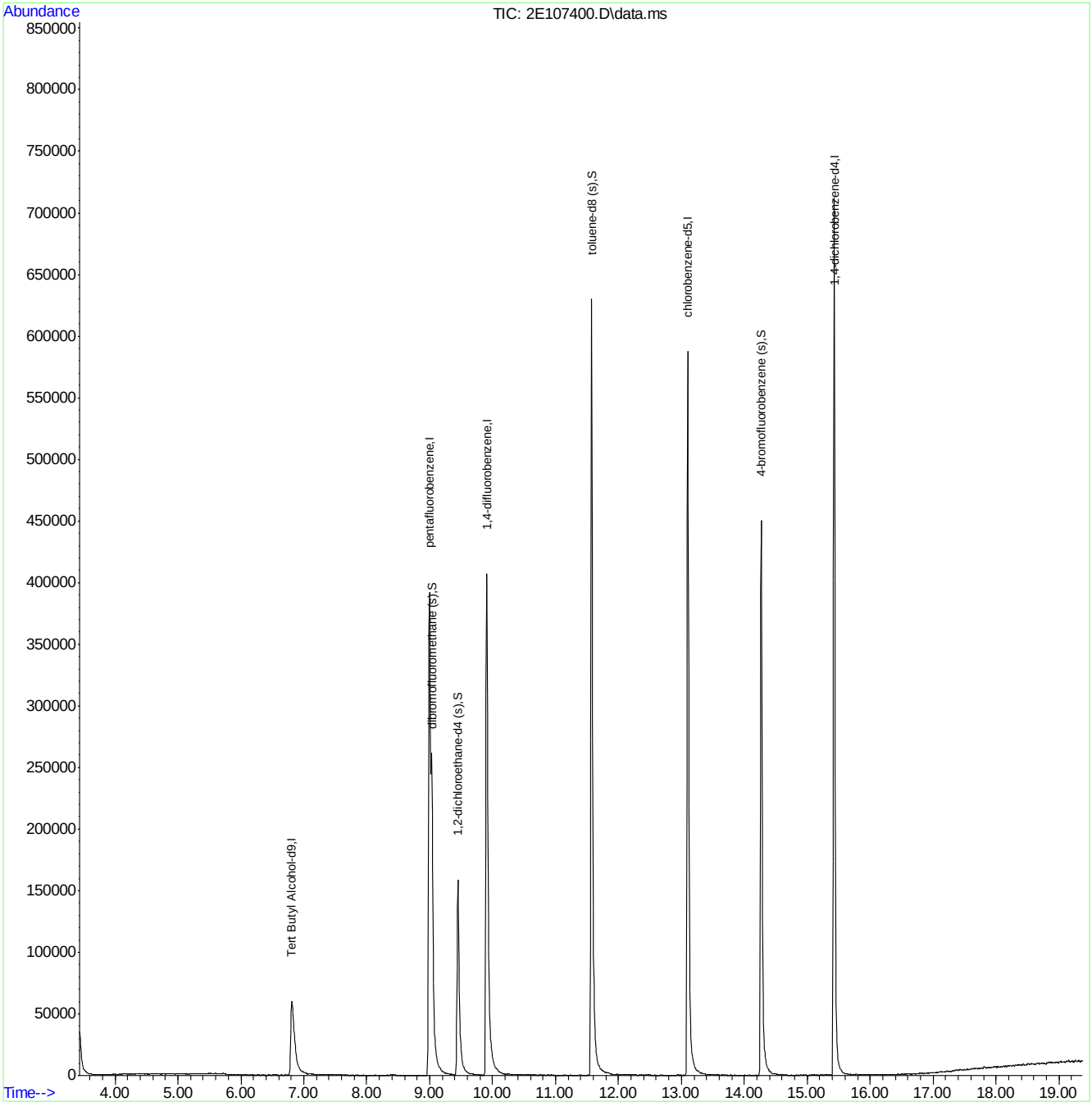
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107400.D
Acq On : 20 Oct 2014 3:29 pm
Operator : DIXITAR
Sample : mb
Misc : MS75404,V2E4806,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 22 14:35:06 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



M2E4774.M Wed Oct 22 15:07:21 2014 ACCNJ

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107420.D
Acq On : 21 Oct 2014 1:21 am
Operator : DIXITAR
Sample : mb2
Misc : MS75404,V2E4806,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 22 15:09:12 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.813	65	150280	500.00	ug/L	-0.01
5) pentafluorobenzene	8.994	168	374066	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	447695	50.00	ug/L	0.00
88) chlorobenzene-d5	13.100	117	380266	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	199542	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.036	113	132180	58.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 116.16%			
49) 1,2-dichloroethane-d4 (s)	9.445	65	140711	57.85	ug/L	-0.01
Spiked Amount 50.000	Range 72 - 123		Recovery = 115.70%			
80) toluene-d8 (s)	11.569	98	521469	58.31	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 116.62%			
106) 4-bromofluorobenzene (s)	14.269	95	184423	55.98	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 111.96%			

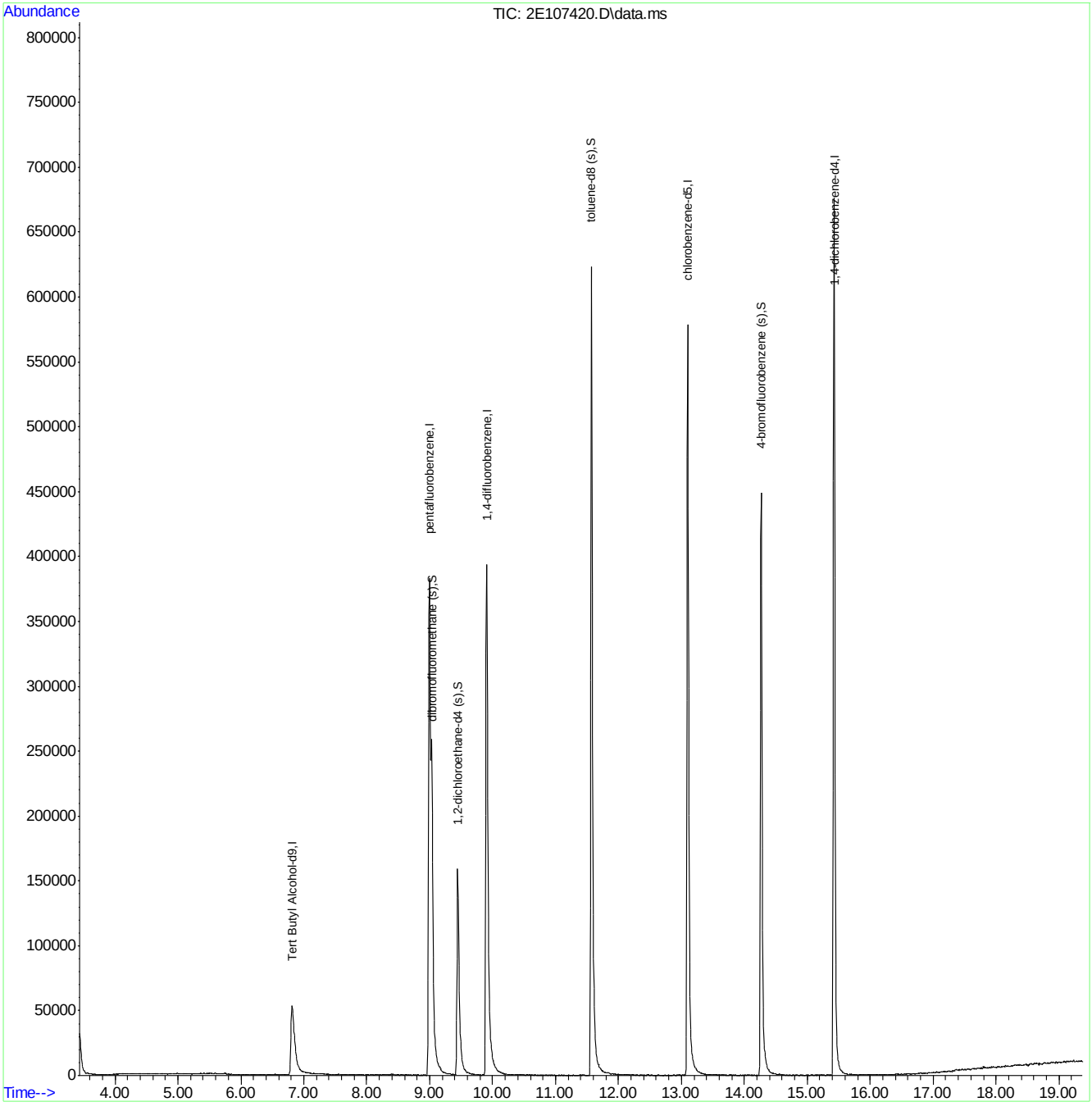
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107420.D
Acq On : 21 Oct 2014 1:21 am
Operator : DIXITAR
Sample : mb2
Misc : MS75404,V2E4806,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 22 15:09:12 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB79217

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107436.D
Acq On : 21 Oct 2014 11:16 am
Operator : DIXITAR
Sample : mb
Misc : MS75404,V2E4807,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 22 15:31:38 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.813	65	142132	500.00	ug/L	-0.01
5) pentafluorobenzene	9.000	168	332825	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	395144	50.00	ug/L	0.00
88) chlorobenzene-d5	13.105	117	337379	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	177106	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.036	113	118043	58.29	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 116.58%			
49) 1,2-dichloroethane-d4 (s)	9.451	65	126606	58.50	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 117.00%			
80) toluene-d8 (s)	11.574	98	458836	58.13	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 116.26%			
106) 4-bromofluorobenzene (s)	14.269	95	163847	56.03	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 112.06%			

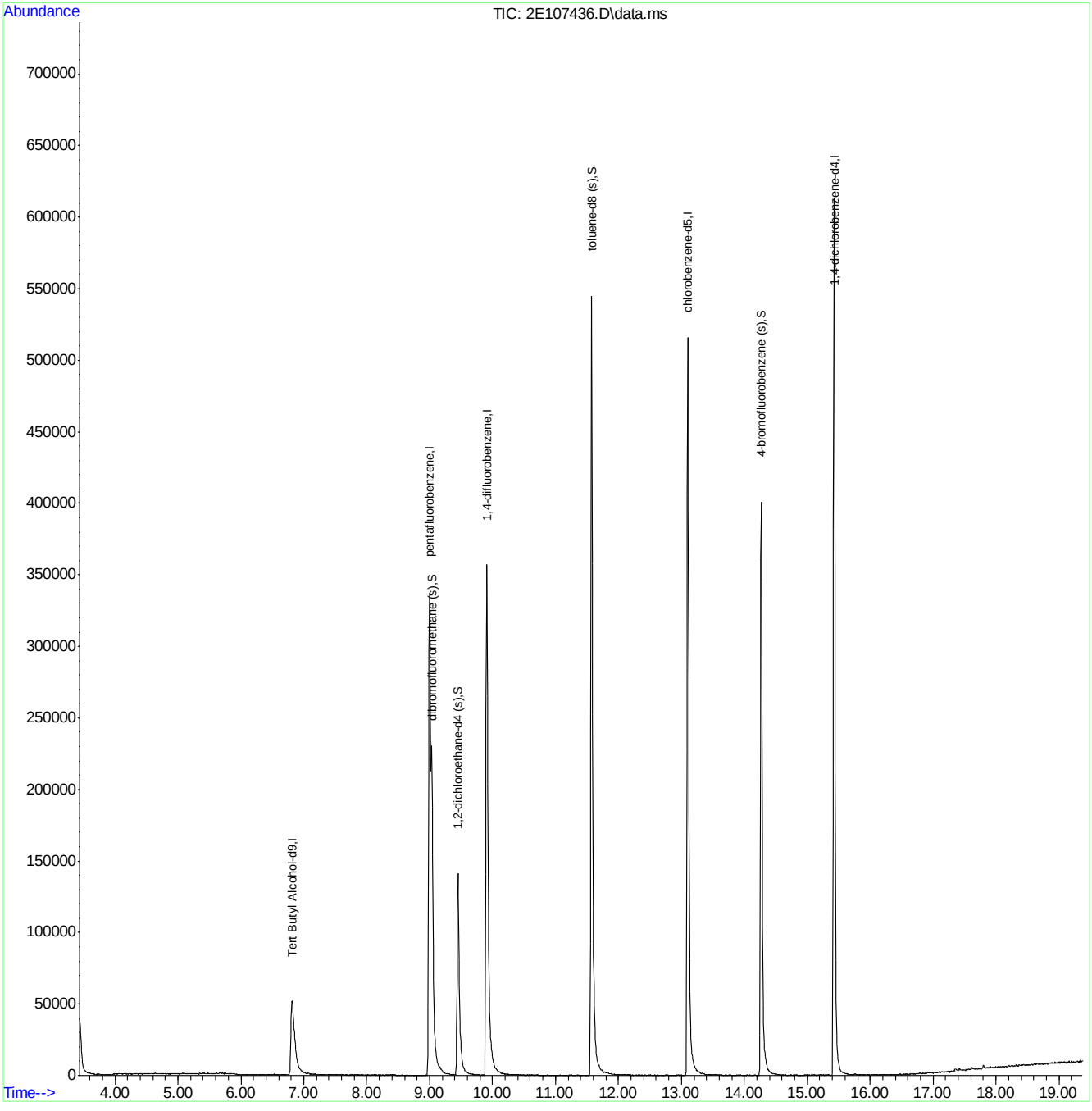
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4806-07\
Data File : 2E107436.D
Acq On : 21 Oct 2014 11:16 am
Operator : DIXITAR
Sample : mb
Misc : MS75404,V2E4807,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 22 15:31:38 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107473.D
Acq On : 22 Oct 2014 10:45 am
Operator : DIXITAR
Sample : mb
Misc : MS75453,V2E4808,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 16:16:47 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.813	65	153993	500.00	ug/L	-0.01
5) pentafluorobenzene	9.000	168	369828	50.00	ug/L	0.00
58) 1,4-difluorobenzene	9.907	114	439728	50.00	ug/L	0.00
88) chlorobenzene-d5	13.100	117	372783	50.00	ug/L	0.00
104) 1,4-dichlorobenzene-d4	15.428	152	193676	50.00	ug/L	0.00
System Monitoring Compounds						
48) dibromofluoromethane (s)	9.036	113	129592	57.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 115.18%			
49) 1,2-dichloroethane-d4 (s)	9.450	65	138052	57.41	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 114.82%			
80) toluene-d8 (s)	11.574	98	500703	57.00	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 114.00%			
106) 4-bromofluorobenzene (s)	14.269	95	179522	56.14	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 112.28%			

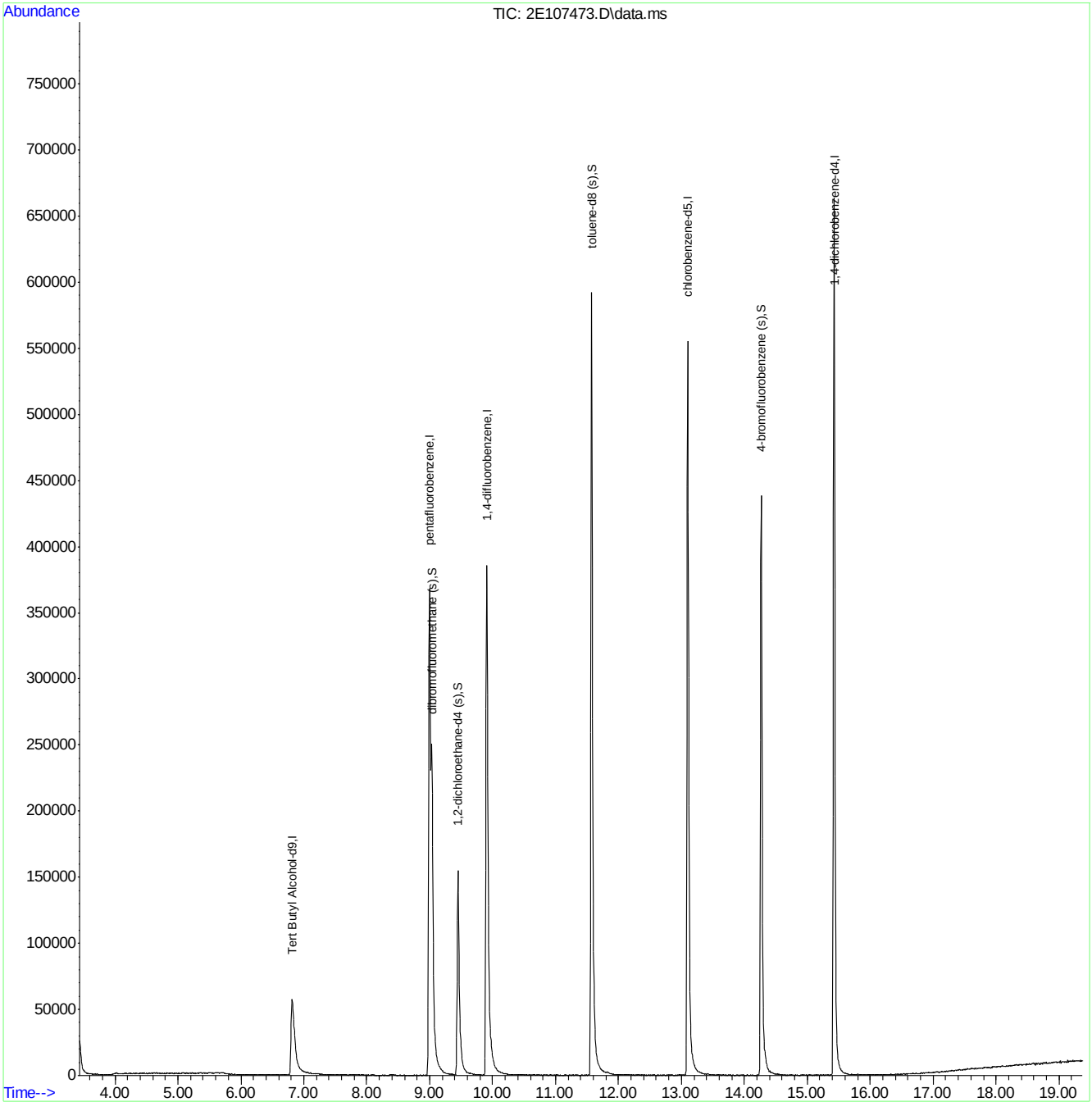
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2E\v2e4808-09\
Data File : 2E107473.D
Acq On : 22 Oct 2014 10:45 am
Operator : DIXITAR
Sample : mb
Misc : MS75453,V2E4808,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 16:16:47 2014
Quant Method : C:\msdchem\1\METHODS\M2E4774.M
Quant Title : SW-846 Method 8260B, ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Oct 01 09:09:50 2014
Response via : Initial Calibration



New Jersey

ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV4733-MB1	UV19181.D	1	10/16/14	WO	n/a	n/a	GUV4733

The QC reported here applies to the following samples: **Method:** SW846 8015C

JB79217-8, JB79217-10, JB79217-11

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries		Limits
98-08-8	aaa-Trifluorotoluene	76%	62-120%

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV4733-MB2	UV19192.D	1	10/16/14	WO	n/a	n/a	GUV4733

The QC reported here applies to the following samples: **Method:** SW846 8015C

JB79217-1, JB79217-2, JB79217-3, JB79217-4, JB79217-5, JB79217-6, JB79217-7, JB79217-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	

CAS No.	Surrogate Recoveries		Limits
98-08-8	aaa-Trifluorotoluene	74%	62-120%

Blank Spike Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV4733-BS	UV19182.D	1	10/16/14	WO	n/a	n/a	GUV4733

The QC reported here applies to the following samples: **Method:** SW846 8015C

JB79217-1, JB79217-2, JB79217-3, JB79217-4, JB79217-5, JB79217-6, JB79217-7, JB79217-8, JB79217-9, JB79217-10, JB79217-11

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	8	8.76	110	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
98-08-8	aaa-Trifluorotoluene	109%	62-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB79129-3MS	UV19189.D	1	10/16/14	WO	n/a	n/a	GUV4733
JB79129-3MSD	UV19190.D	1	10/16/14	WO	n/a	n/a	GUV4733
JB79129-3	UV19183.D	1	10/16/14	WO	n/a	n/a	GUV4733

The QC reported here applies to the following samples: **Method:** SW846 8015C

JB79217-1, JB79217-2, JB79217-3, JB79217-4, JB79217-5, JB79217-6, JB79217-7, JB79217-8, JB79217-9, JB79217-10, JB79217-11

CAS No.	Compound	JB79129-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		8	6.86	86	8	6.94	87	1	59-126/21

CAS No.	Surrogate Recoveries	MS	MSD	JB79129-3	Limits
98-08-8	aaa-Trifluorotoluene	91%	92%	67%	62-120%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Method: SW846 8015C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JB79217-1	UV19200.D	74
JB79217-2	UV19193.D	73
JB79217-3	UV19194.D	73
JB79217-4	UV19195.D	73
JB79217-5	UV19196.D	73
JB79217-6	UV19197.D	73
JB79217-7	UV19198.D	73
JB79217-8	UV19186.D	73
JB79217-9	UV19199.D	72
JB79217-10	UV19188.D	75
JB79217-11	UV19187.D	74
GUV4733-BS	UV19182.D	109
GUV4733-MB1	UV19181.D	76
GUV4733-MB2	UV19192.D	74
JB79129-3MS	UV19189.D	91
JB79129-3MSD	UV19190.D	92

Surrogate Compounds	Recovery Limits
S1 = aaa-Trifluorotoluene	62-120%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	GUV4732-CC4723	**Injection Date:**	10/15/14
Lab File ID:	UV19176.D	**Injection Time:**	23:26
Instrument ID:	GCUV	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	7.60

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GUV4733-RT	UV19179.D	10/16/14	08:28	7.60

Surrogate Compounds

S1 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	GUV4733-CC4723	**Injection Date:**	10/16/14
Lab File ID:	UV19180.D	**Injection Time:**	08:54
Instrument ID:	GCUV	**Method:**	SW846 8015C

	S1 [a] RT
Check Std	7.60

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
GUV4733-MB1	UV19181.D	10/16/14	09:25	7.60
GUV4733-BS	UV19182.D	10/16/14	09:54	7.60
JB79129-3	UV19183.D	10/16/14	10:50	7.60
ZZZZZZ	UV19184.D	10/16/14	11:19	7.60
ZZZZZZ	UV19185.D	10/16/14	11:48	7.60
JB79217-8	UV19186.D	10/16/14	12:16	7.60
JB79217-11	UV19187.D	10/16/14	12:53	7.60
JB79217-10	UV19188.D	10/16/14	13:22	7.60
JB79129-3MS	UV19189.D	10/16/14	13:51	7.60
JB79129-3MSD	UV19190.D	10/16/14	14:19	7.60

Surrogate Compounds

S1 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	GUV4733-CC4723	**Injection Date:**	10/16/14
Lab File ID:	UV19191.D	**Injection Time:**	14:48
Instrument ID:	GCUV	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	7.60

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GUV4733-MB2	UV19192.D	10/16/14	15:22	7.60
JB79217-2	UV19193.D	10/16/14	15:51	7.60
JB79217-3	UV19194.D	10/16/14	16:20	7.60
JB79217-4	UV19195.D	10/16/14	16:49	7.60
JB79217-5	UV19196.D	10/16/14	17:18	7.60
JB79217-6	UV19197.D	10/16/14	17:54	7.60
JB79217-7	UV19198.D	10/16/14	18:23	7.60
JB79217-9	UV19199.D	10/16/14	18:52	7.60
JB79217-1	UV19200.D	10/16/14	19:21	7.60
ZZZZZZ	UV19201.D	10/16/14	19:49	7.60

Surrogate Compounds

S1 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV4723-ICC4723
Lab FileID: UV19038.D

```
                         Response Factor Report  GCUV

 Method       : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
 Title        : Method SW846 8015B (GRO)
 Last Update  : Tue Oct 07 13:59:51 2014
 Response via : Initial Calibration

 Calibration Files
 0.2    =UV19035.D    0.8    =UV19036.D    4      =UV19037.D
 8    =UV19038.D   20   =UV19039.D   40   =UV19044.D   30   =UV19040.D

     Compound           0.2   0.8   4     8     20    40    30     Avg   %RSD
 ---------------------------------------------------------------------------
 1)H TPH-GRO (C6-C10)  2.415 2.124 2.031 1.983 2.152 2.299 2.131 2.162 E4   6.92
 2)H TPH-GRO (C6-C12)  2.483 1.949 1.888 1.845 1.992 2.155 1.969 2.040 E4  10.71
 3)S a,a,a-Trifluoroto 2.135 2.419 2.473 2.667 3.184 2.204 2.687 2.539 E4  13.91
---------------------------------------------------------------------------

                                                   Average  % RSD =  10.5

 ( 100.0 %)  3 of   3 compounds'% RSD >  0
---------------------------------------------------------------------------
(#) = Out of Range

          MUV4723.M         Tue Oct 07 14:11:52 2014   GCSY
```

8.6.1

8

Initial Calibration Verification

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV4723-ICV4723
Lab FileID: UV19046.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV19046.D                    Vial: 15
Acq On    :  7 Oct 2014   2:49 pm                    Operator: XULIU
Sample    : ICV4723-8000                             Inst    : GCUV
Misc      : GC44584,GUV4723,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 H	TPH-GRO (C6-C10)	21.620	21.037 E3	2.7	106	0.00
2 H	TPH-GRO (C6-C12)	20.400	21.678 E3	-6.3	117	0.00
3 S	a,a,a-Trifluorotoluene	25.385	27.493 E3	-8.3	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV19038.D MUV4723.M Tue Oct 07 15:18:08 2014 GCSY

8.6.2

8

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV4732-CC4723
Lab FileID: UV19176.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV19176.D                    Vial: 28
Acq On    : 15 Oct 2014  11:26 pm                     Operator: WILLIAMO
Sample    : CC4723-4000                               Inst    : GCUV
Misc      : GC44651,GUV4732,10.0,,100,10,1            Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 H	TPH-GRO (C6-C10)	21.620	22.461 E3	-3.9	111	0.00
2 H	TPH-GRO (C6-C12)	20.400	21.656 E3	-6.2	115	0.00
3 S	a,a,a-Trifluorotoluene	25.385	22.823 E3	10.1	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV19037.D MUV4723.M Thu Oct 16 09:10:41 2014 GCSY

8.6.3

8

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV4733-CC4723
Lab FileID: UV19180.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV19180.D                    Vial: 4
Acq On    : 16 Oct 2014   8:54 am                     Operator: WILLIAMO
Sample    : CC4723-4000                               Inst    : GCUV
Misc      : GC44651,GUV4733,10.0,,100,10,1            Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 H	TPH-GRO (C6-C10)	21.620	22.176 E3	-2.6	109	0.00
2 H	TPH-GRO (C6-C12)	20.400	21.698 E3	-6.4	115	0.00
3 S	a,a,a-Trifluorotoluene	25.385	21.851 E3	13.9	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV19037.D MUV4723.M Thu Oct 16 15:29:27 2014 GCSY

8.6.4

8

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV4733-CC4723
Lab FileID: UV19191.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV19191.D                    Vial: 15
Acq On    : 16 Oct 2014   2:48 pm                    Operator: WILLIAMO
Sample    : CC4723-8000                              Inst    : GCUV
Misc      : GC44650,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 H	TPH-GRO (C6-C10)	21.620	21.804 E3	-0.9	110	0.00
2 H	TPH-GRO (C6-C12)	20.400	20.900 E3	-2.5	113	0.00
3 S	a,a,a-Trifluorotoluene	25.385	23.869 E3	6.0	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV19038.D MUV4723.M Thu Oct 16 15:29:02 2014 GCSY

8.6.5

8

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: GUV4733-CC4723
Lab FileID: UV19202.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\UV19202.D                    Vial: 26
Acq On    : 16 Oct 2014   8:18 pm                    Operator: WILLIAMO
Sample    : CC4723-4000                              Inst    : GCUV
Misc      : GC44661,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e

Method       : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	H	TPH-GRO (C6-C10)	21.620	22.102 E3	-2.2	109	0.00
2	H	TPH-GRO (C6-C12)	20.400	21.554 E3	-5.7	114	0.00
3	S	a,a,a-Trifluorotoluene	25.385	21.591 E3	14.9	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
UV19037.D MUV4723.M Fri Oct 17 08:06:19 2014 GCSY

8.6.6

8

New Jersey

ACCUTEST LABORATORIES

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19200.D                    Vial: 24
Acq On    : 16 Oct 2014   7:21 pm                     Operator: WILLIAMO
Sample    : JB79217-1                                 Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 17  8:05 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5609881  220.992 ug/l
Spiked Amount   300.000                   Recovery      =   73.66%

Target Compounds
```

9.1.1

9

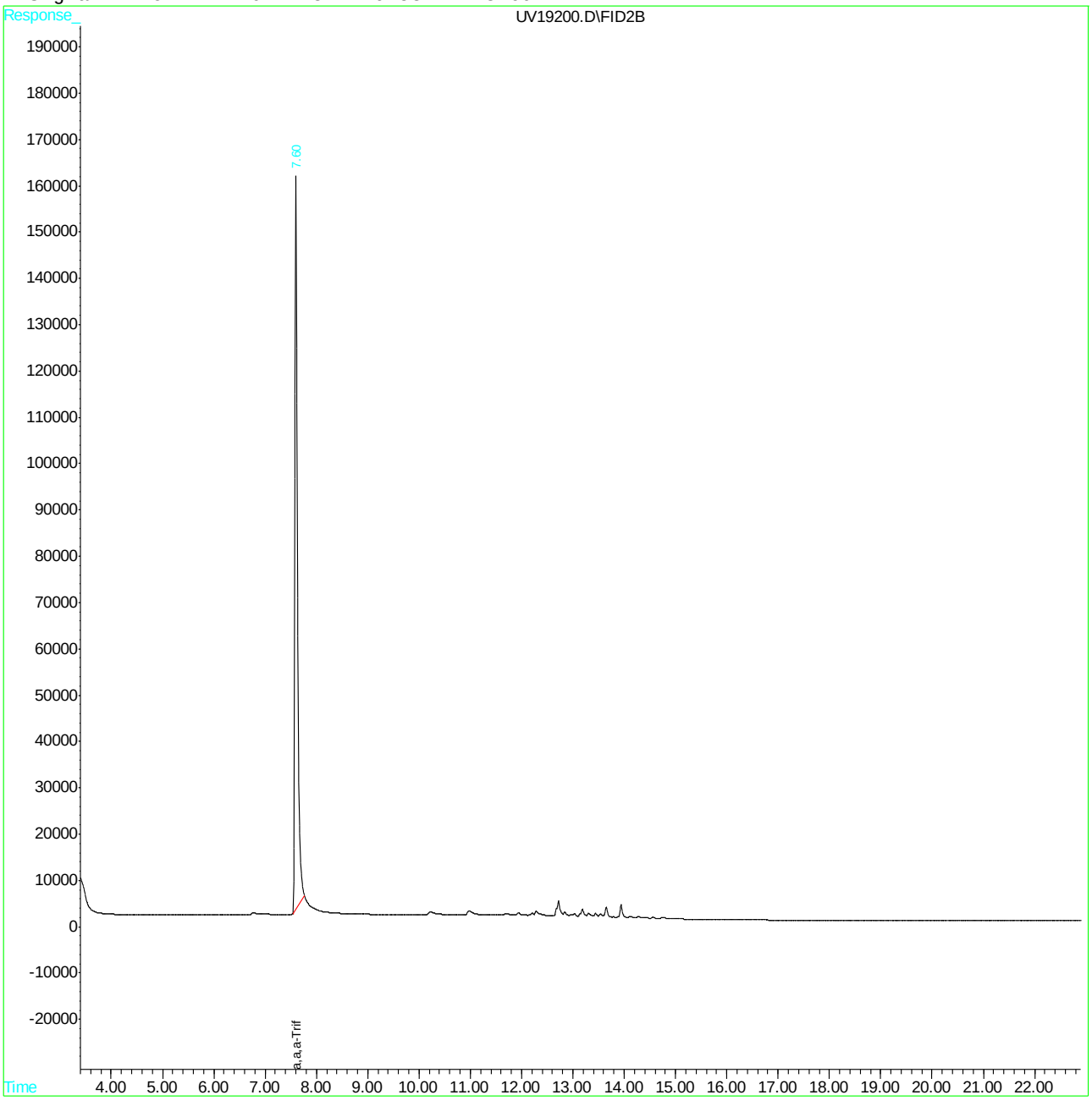
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19200.D  MUV4723.M      Fri Oct 17 08:07:25 2014      GCSY
```

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19200.D Vial: 24
Acq On : 16 Oct 2014 7:21 pm Operator: WILLIAMO
Sample : JB79217-1 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19193.D                    Vial: 17
Acq On    : 16 Oct 2014   3:51 pm                     Operator: WILLIAMO
Sample    : JB79217-2                                 Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 17  8:05 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5559653  219.013 ug/l
Spiked Amount   300.000                   Recovery      =   73.00%

Target Compounds
```

9.1.2

9

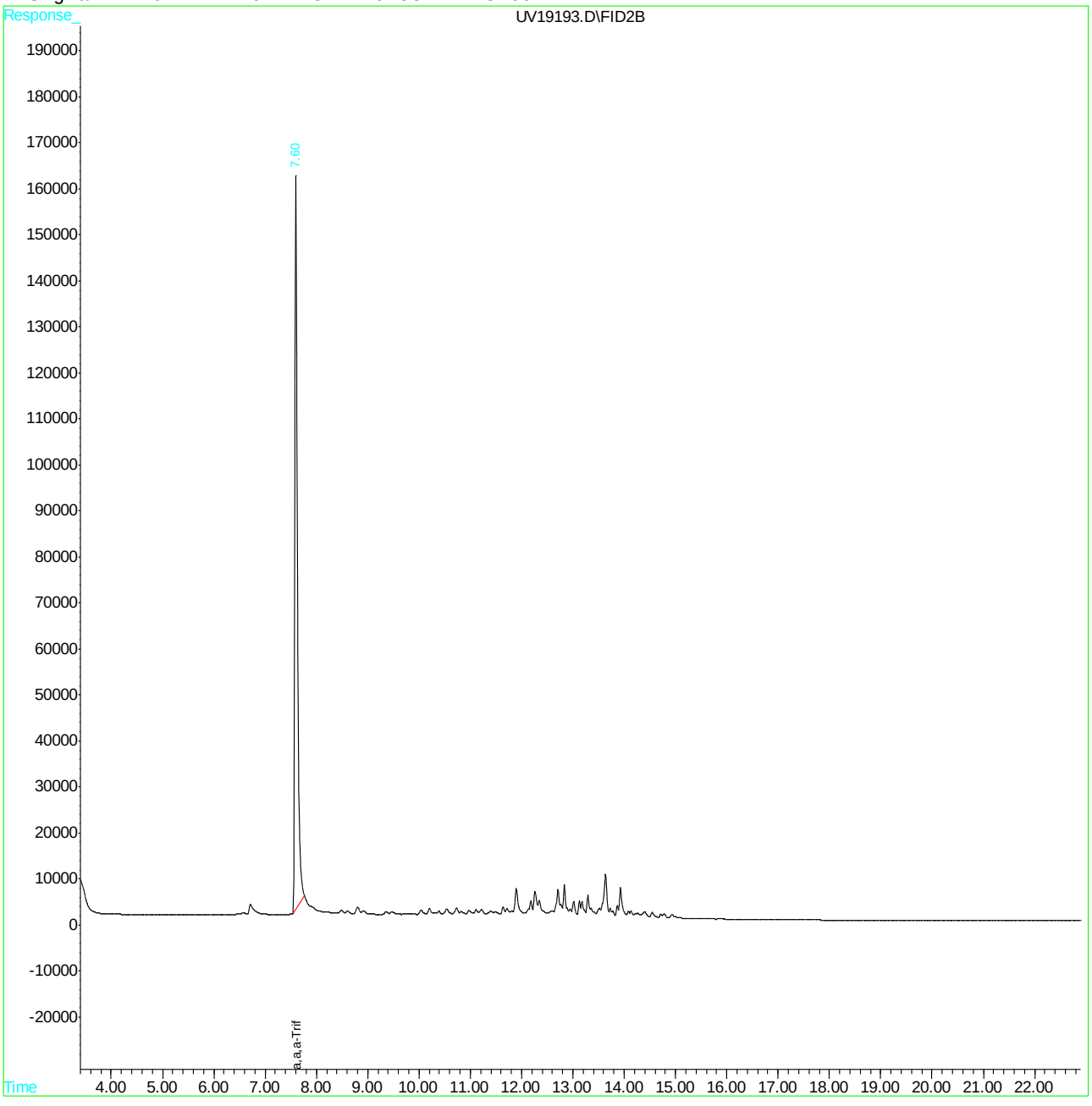
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19193.D  MUV4723.M      Fri Oct 17 08:06:55 2014      GCSY
```

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19193.D Vial: 17
Acq On : 16 Oct 2014 3:51 pm Operator: WILLIAMO
Sample : JB79217-2 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19194.D                    Vial: 18
Acq On    : 16 Oct 2014   4:20 pm                    Operator: WILLIAMO
Sample    : JB79217-3                                Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 17  8:05 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5571619  219.485 ug/l
Spiked Amount   300.000                   Recovery      =   73.16%

Target Compounds
```

9.1.3

9

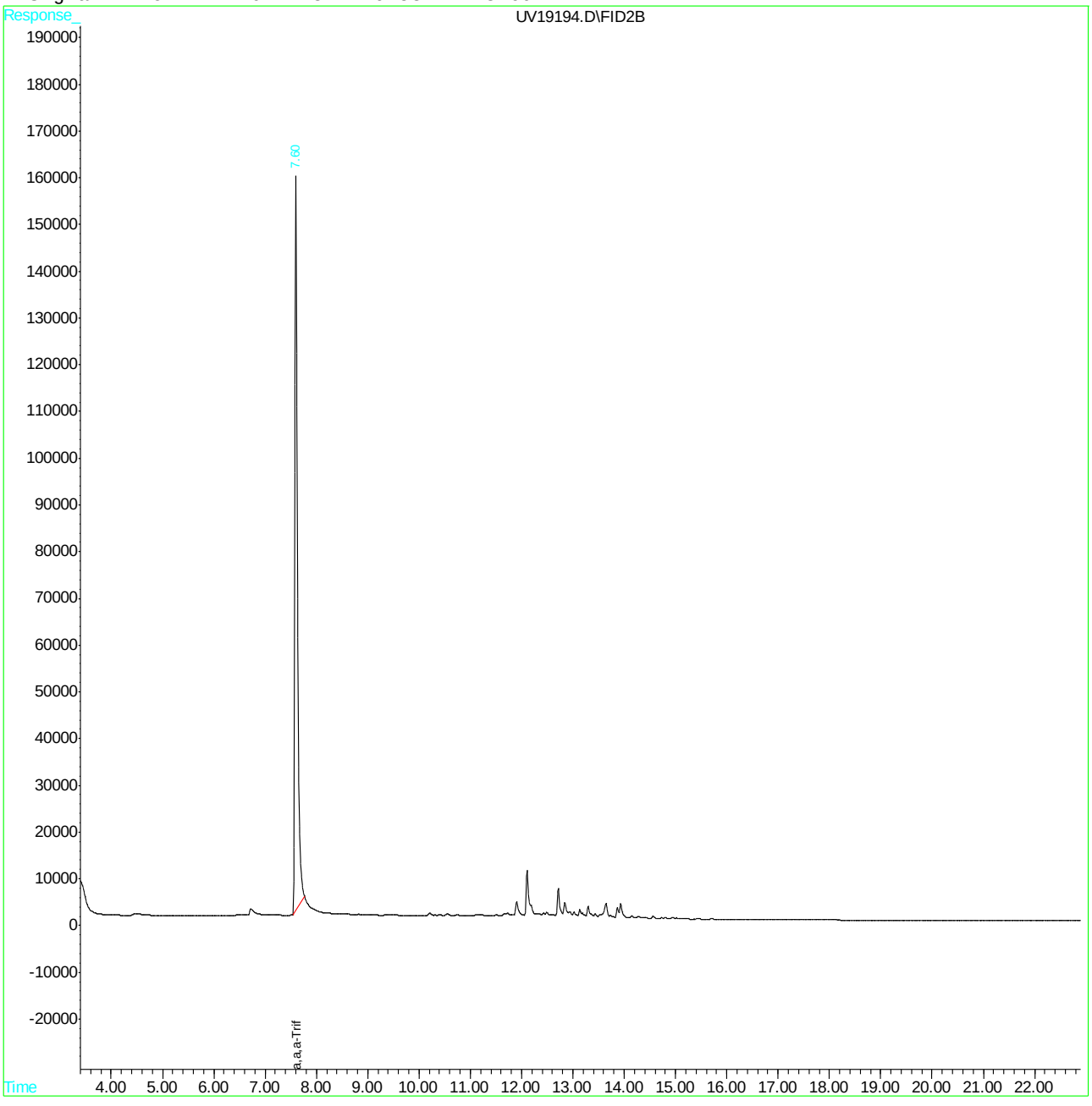
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19194.D  MUV4723.M      Fri Oct 17 08:06:56 2014      GCSY
```

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19194.D Vial: 18
Acq On : 16 Oct 2014 4:20 pm Operator: WILLIAMO
Sample : JB79217-3 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19195.D                    Vial: 19
Acq On    : 16 Oct 2014   4:49 pm                    Operator: WILLIAMO
Sample    : JB79217-4                                Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 17  8:05 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5546699  218.503 ug/l
Spiked Amount   300.000                   Recovery      =   72.83%

Target Compounds
```

9.1.4

9

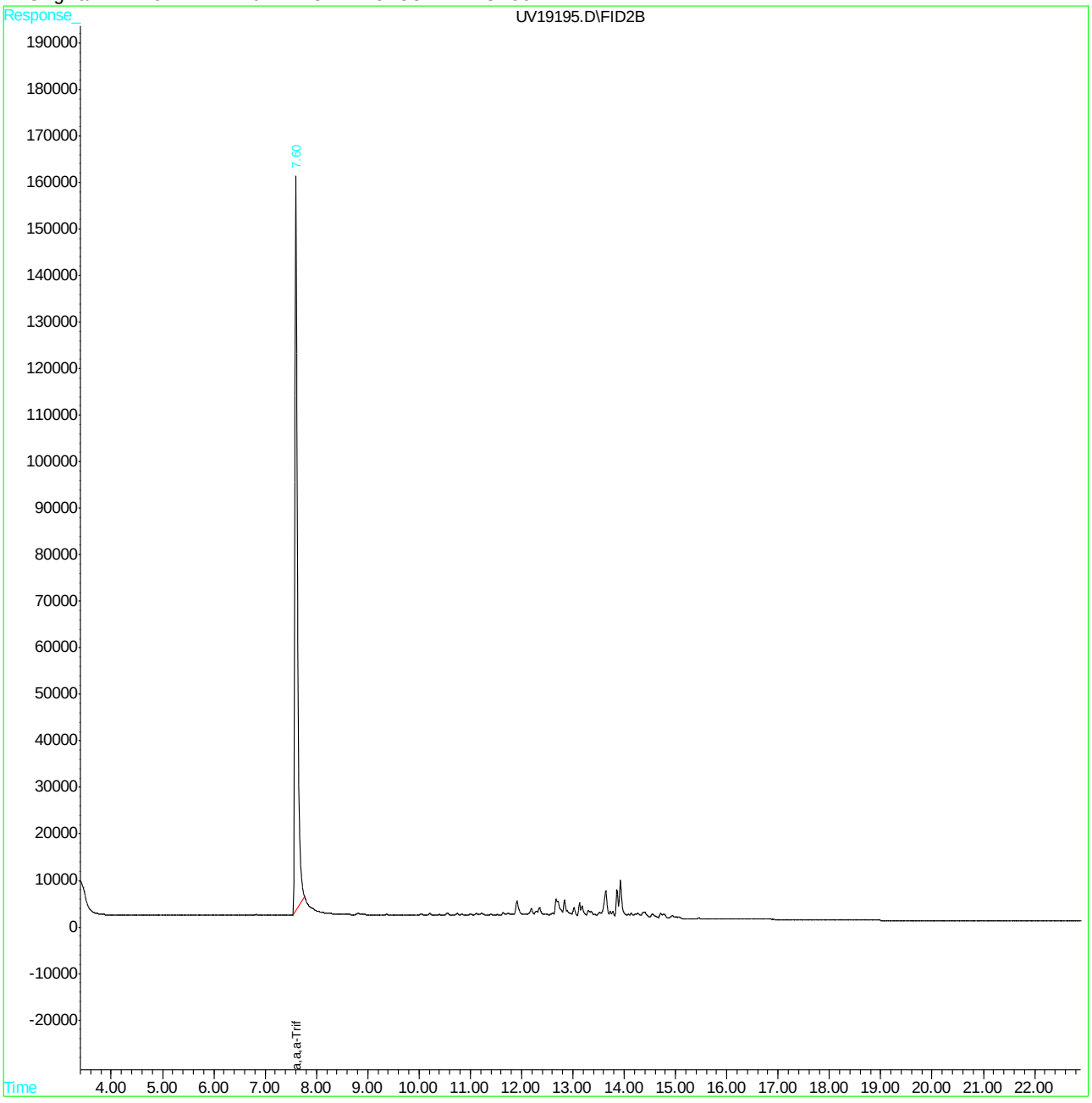
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19195.D  MUV4723.M      Fri Oct 17 08:06:59 2014      GCSY
```

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19195.D Vial: 19
Acq On : 16 Oct 2014 4:49 pm Operator: WILLIAMO
Sample : JB79217-4 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19196.D                    Vial: 20
Acq On    : 16 Oct 2014   5:18 pm                    Operator: WILLIAMO
Sample    : JB79217-5                                Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 17  8:05 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5570370  219.435 ug/l
Spiked Amount   300.000                   Recovery      =   73.15%

Target Compounds
```

9.1.5

9

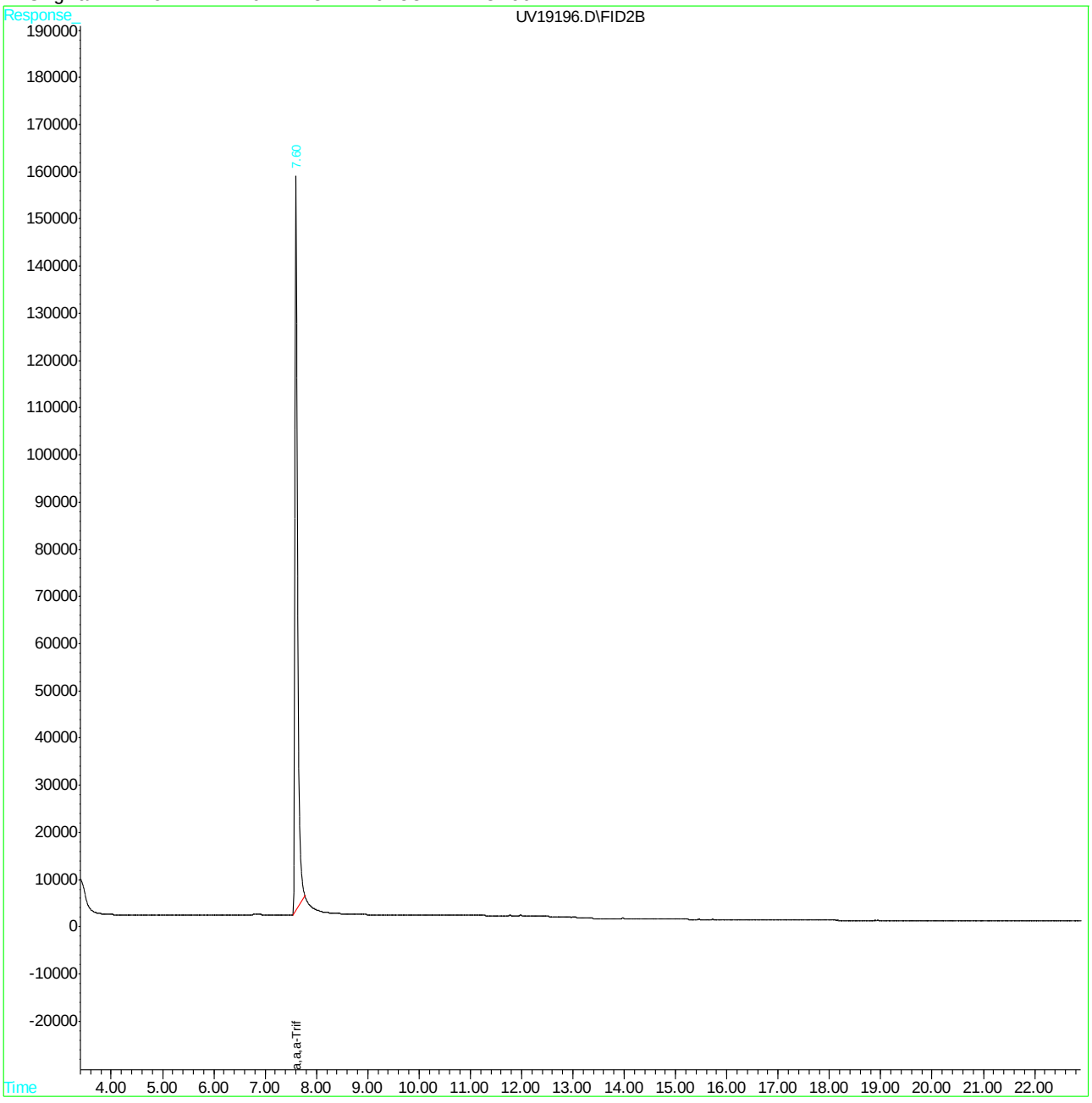
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19196.D  MUV4723.M      Fri Oct 17 08:07:01 2014      GCSY
```

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19196.D Vial: 20
Acq On : 16 Oct 2014 5:18 pm Operator: WILLIAMO
Sample : JB79217-5 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19197.D                    Vial: 21
Acq On    : 16 Oct 2014   5:54 pm                    Operator: WILLIAMO
Sample    : JB79217-6                                Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 17  8:05 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5575617  219.642 ug/l
Spiked Amount   300.000                   Recovery      =   73.21%

Target Compounds
```

9.1.6

9

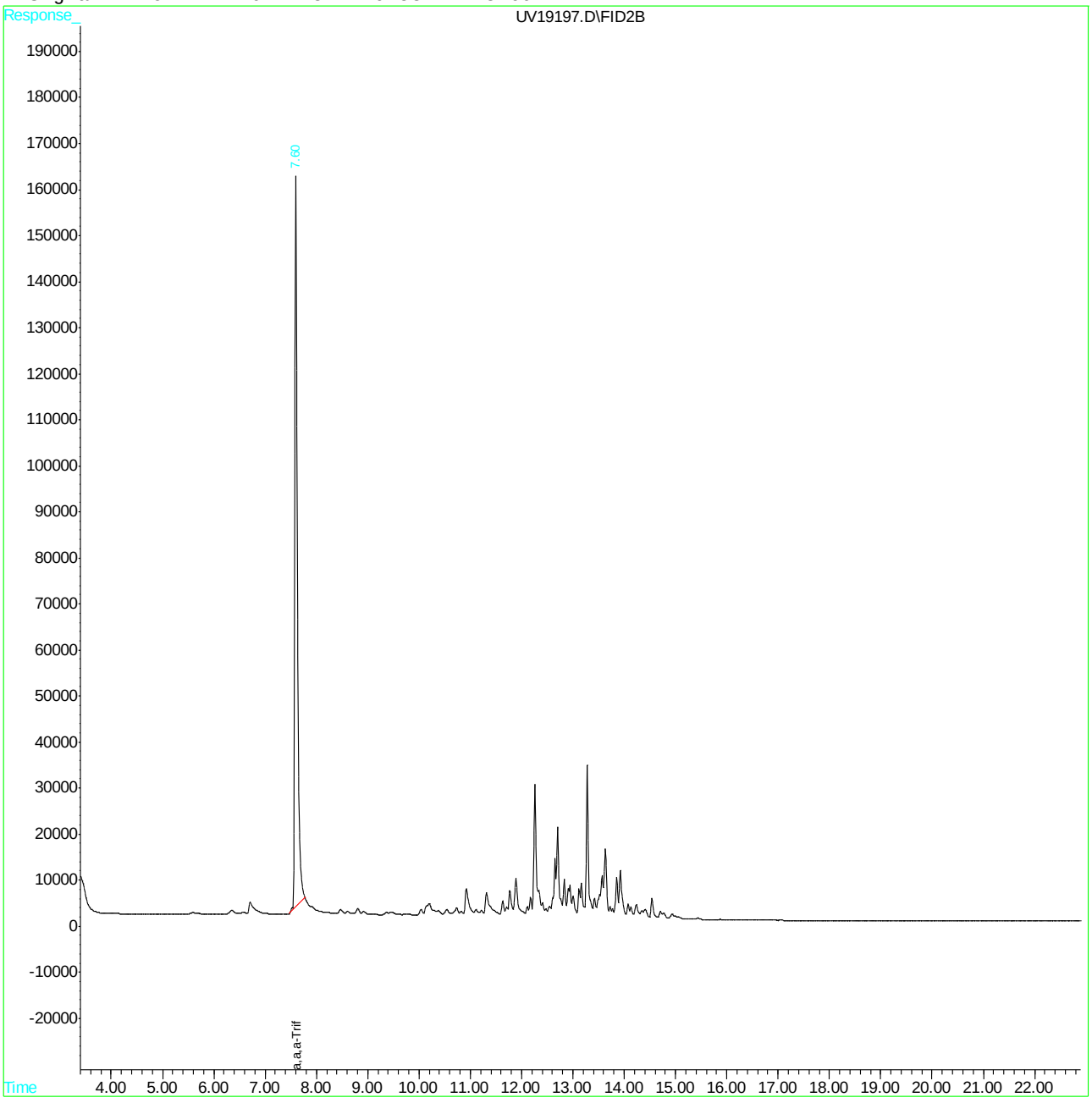
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19197.D  MUV4723.M      Fri Oct 17 08:07:12 2014      GCSY
```

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19197.D Vial: 21
Acq On : 16 Oct 2014 5:54 pm Operator: WILLIAMO
Sample : JB79217-6 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19198.D                    Vial: 22
Acq On    : 16 Oct 2014   6:23 pm                    Operator: WILLIAMO
Sample    : JB79217-7                                Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 17  8:05 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5561127  219.071 ug/l
Spiked Amount   300.000                   Recovery      =   73.02%

Target Compounds
```

9.1.7

9

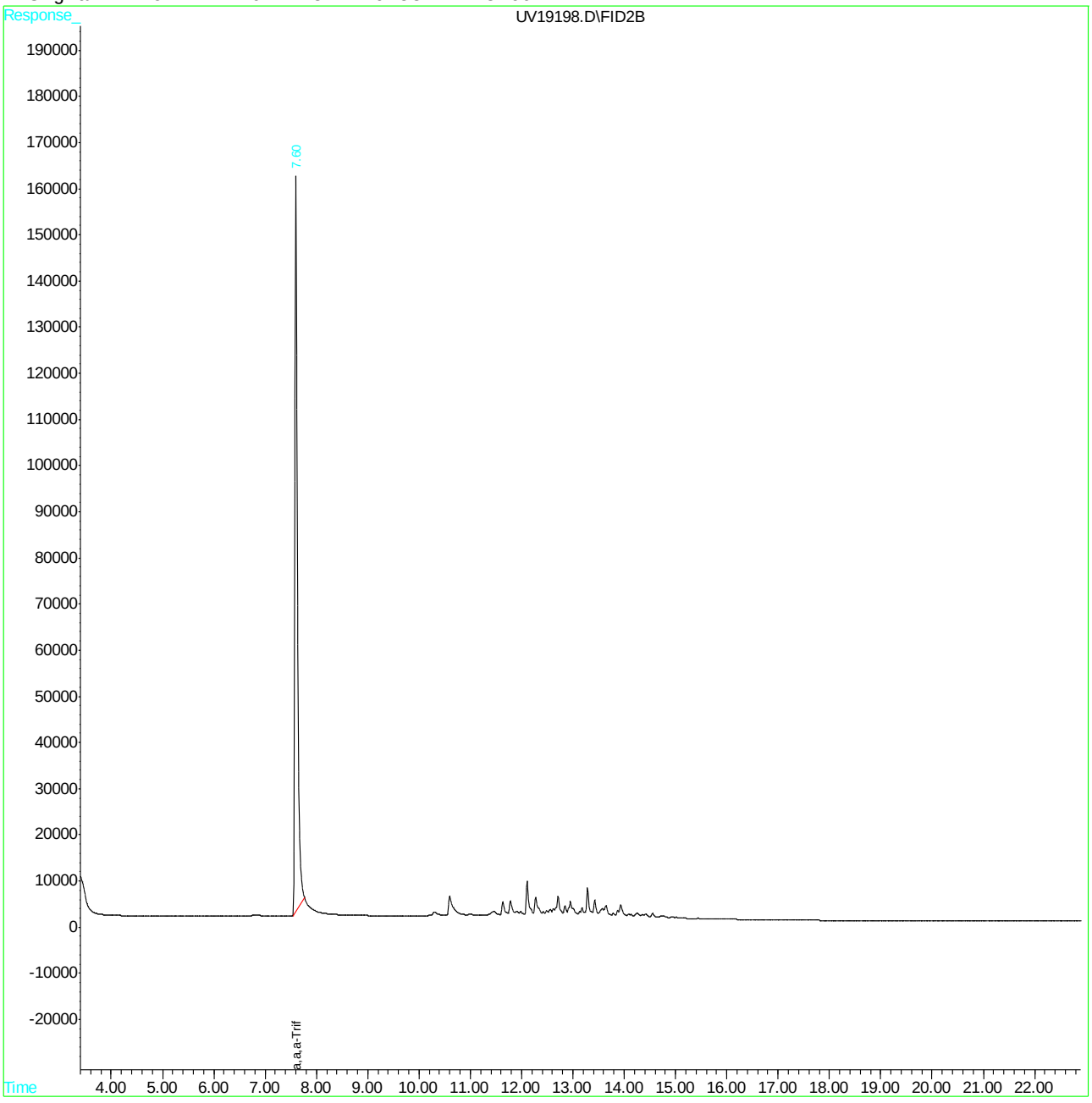
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19198.D  MUV4723.M      Fri Oct 17 08:07:22 2014      GCSY
```

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19198.D Vial: 22
Acq On : 16 Oct 2014 6:23 pm Operator: WILLIAMO
Sample : JB79217-7 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19186.D                    Vial: 10
Acq On    : 16 Oct 2014  12:16 pm                    Operator: WILLIAMO
Sample    : JB79217-8                                Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 16 15:30 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5535881  218.077 ug/l
Spiked Amount   300.000                   Recovery      =   72.69%

Target Compounds
```

9.1.8

9

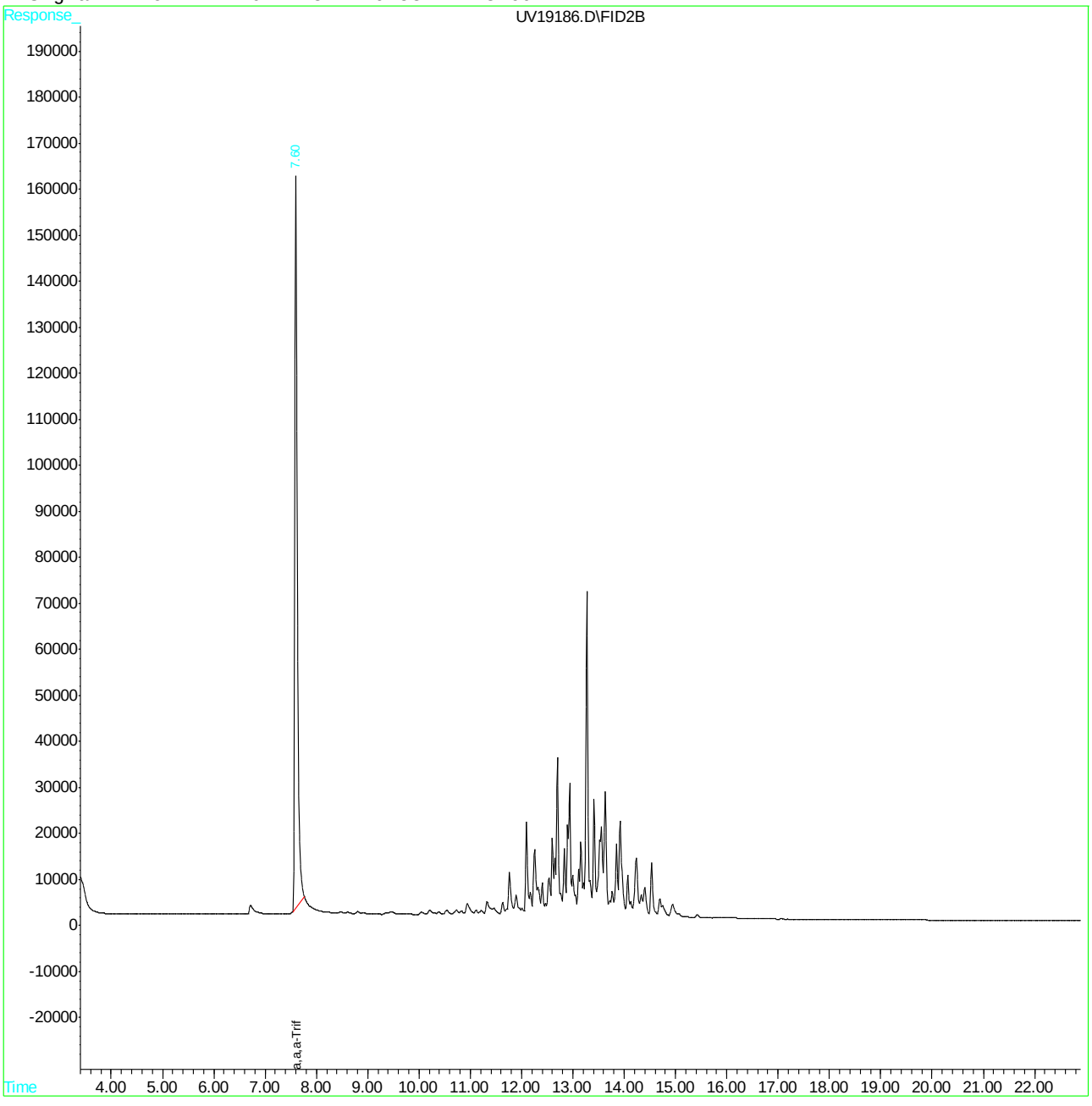
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19186.D  MUV4723.M      Thu Oct 16 15:32:47 2014      GCSY
```

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19186.D Vial: 10
Acq On : 16 Oct 2014 12:16 pm Operator: WILLIAMO
Sample : JB79217-8 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 16 15:30 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19199.D Vial: 23
Acq On : 16 Oct 2014 6:52 pm Operator: WILLIAMO
Sample : JB79217-9 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S a,a,a-Trifluorotoluene	7.60	5486874	216.146 ug/l
Spiked Amount 300.000		Recovery =	72.05%
Target Compounds			

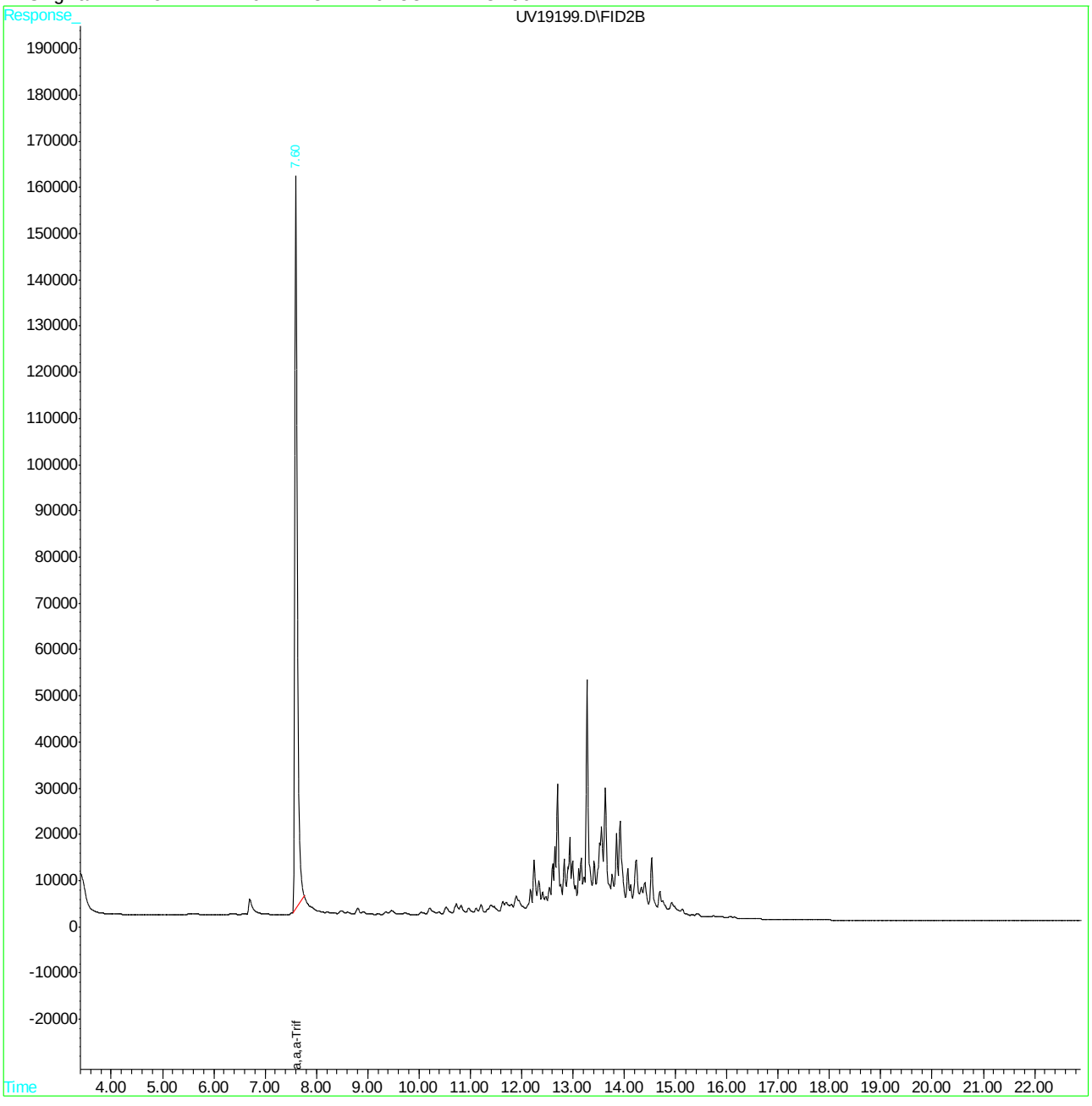
(f)=RT Delta > 1/2 Window (m)=manual int.
UV19199.D MUV4723.M Fri Oct 17 08:07:23 2014 GCSY

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19199.D Vial: 23
Acq On : 16 Oct 2014 6:52 pm Operator: WILLIAMO
Sample : JB79217-9 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19188.D                    Vial: 12
Acq On    : 16 Oct 2014   1:22 pm                    Operator: WILLIAMO
Sample    : JB79217-10                               Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 16 15:30 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5706741  224.807 ug/l
Spiked Amount   300.000                   Recovery      =   74.94%

Target Compounds
 1) H   TPH-GRO (C6-C10)             9.00      123181613 5697.584 ug/l
```

9.1.10

9

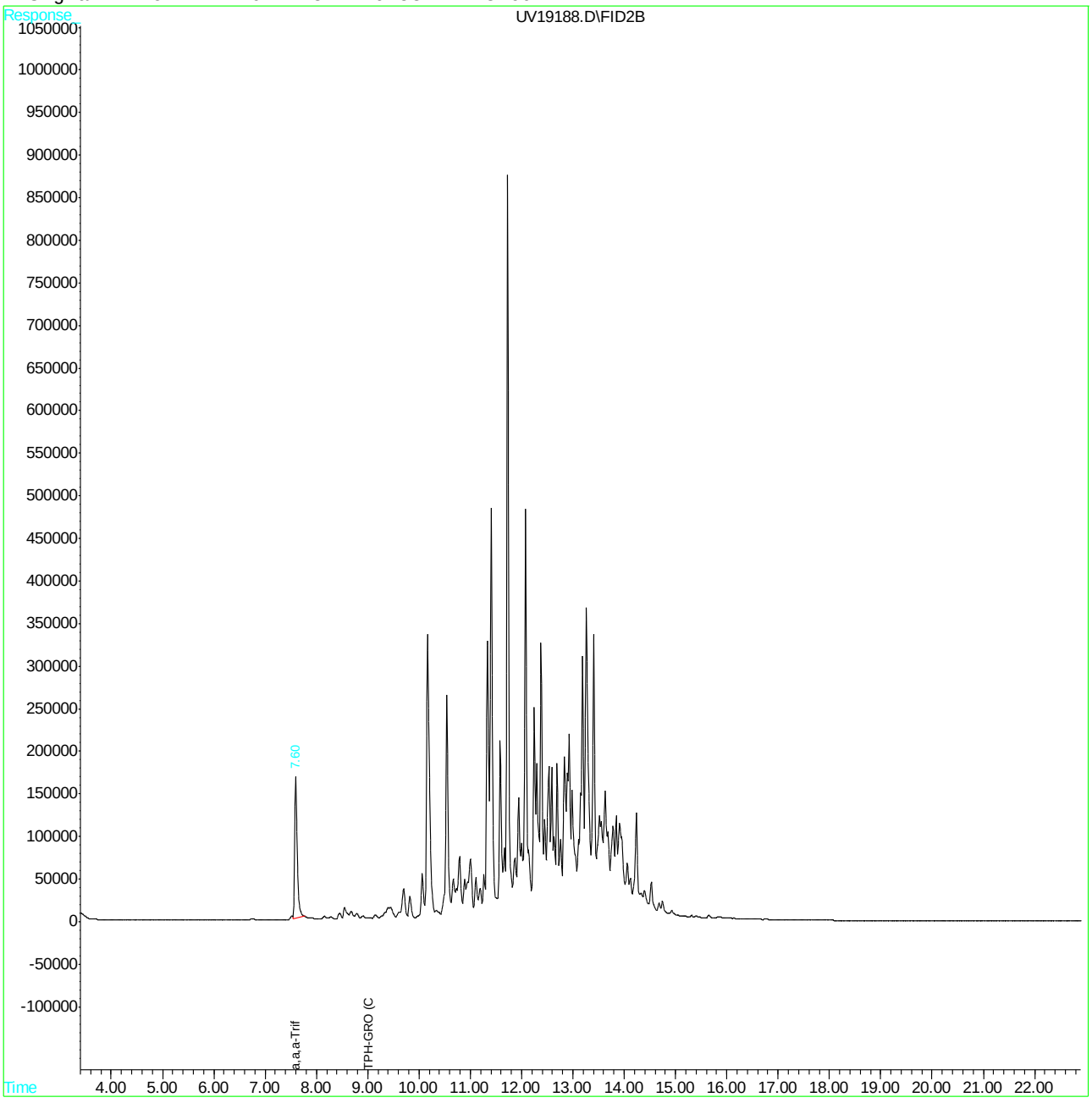
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19188.D  MUV4723.M      Thu Oct 16 15:32:14 2014      GCSY
```

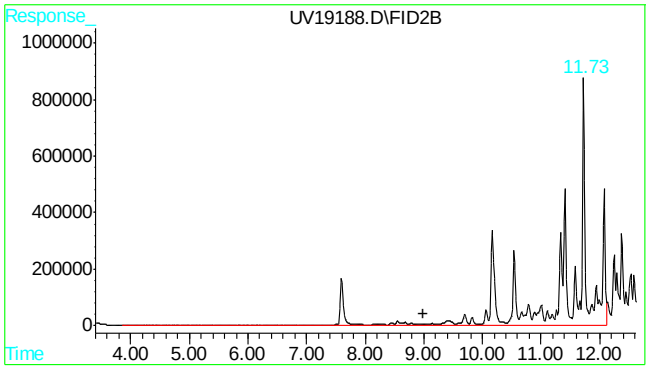
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19188.D Vial: 12
Acq On : 16 Oct 2014 1:22 pm Operator: WILLIAMO
Sample : JB79217-10 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 16 15:30 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um





#1 TPH-GRO (C6-C10)

R.T.: 9.000 min
Delta R.T.: 0.000 min
Response: 123181613
Conc: 5697.58 ug/l m

9.1.10

9

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19187.D                    Vial: 11
Acq On    : 16 Oct 2014  12:53 pm                    Operator: WILLIAMO
Sample    : JB79217-11                               Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 16 15:30 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5668617  223.306 ug/l
Spiked Amount   300.000                   Recovery      =   74.44%

Target Compounds
 1) H   TPH-GRO (C6-C10)             9.00       13875873  641.808 ug/l
```

9.1.11

9

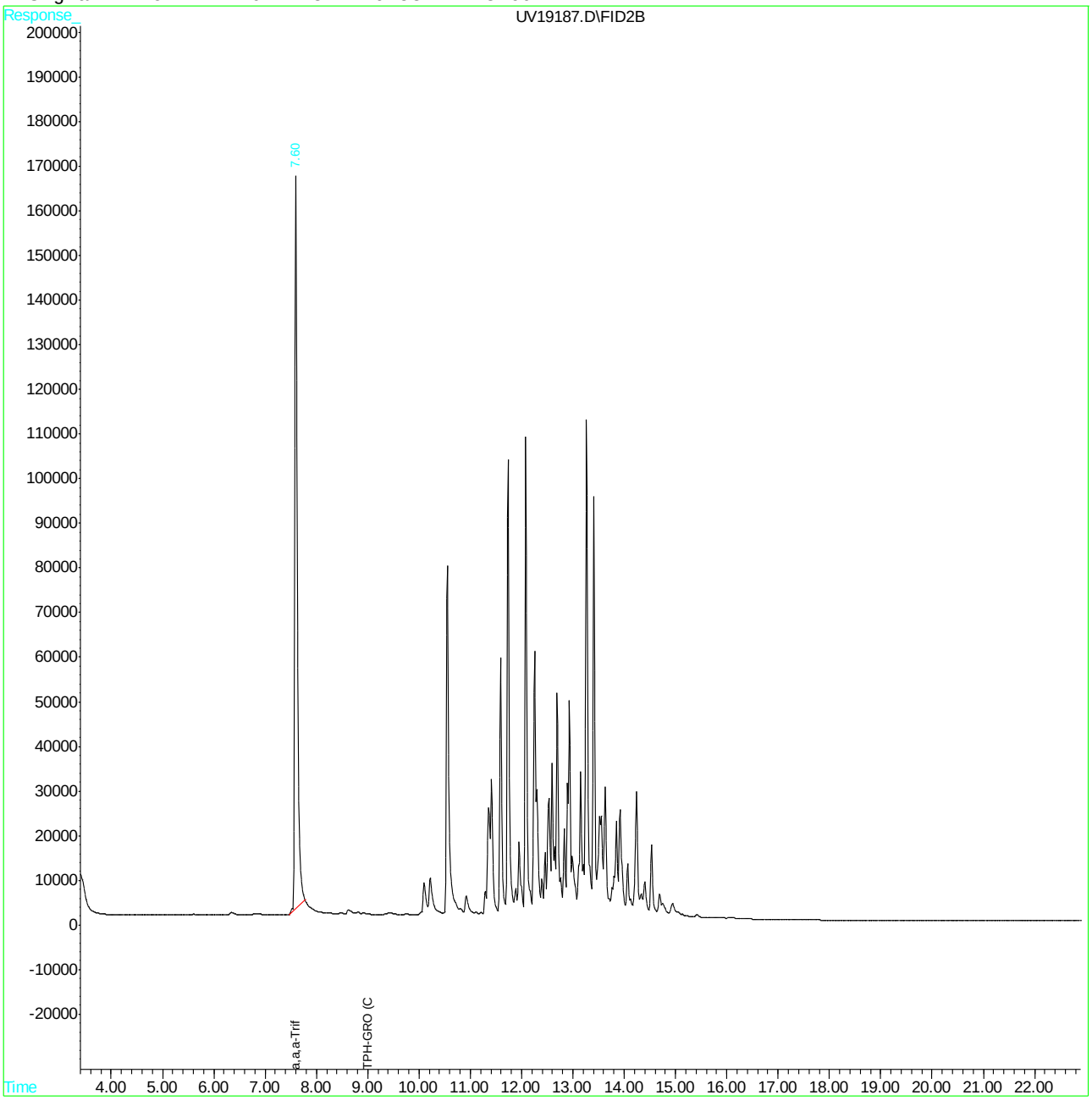
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19187.D  MUV4723.M      Thu Oct 16 15:32:13 2014      GCSY
```

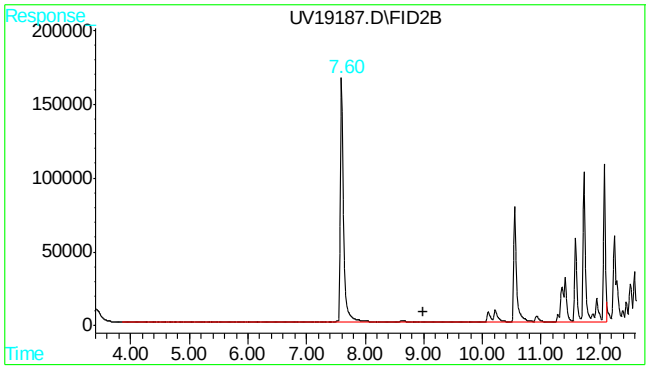
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19187.D Vial: 11
Acq On : 16 Oct 2014 12:53 pm Operator: WILLIAMO
Sample : JB79217-11 Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 16 15:30 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um





#1 TPH-GRO (C6-C10)

R.T.: 9.000 min
Delta R.T.: 0.000 min
Response: 13875873
Conc: 641.81 ug/l m

9.1.11

9

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19181.D                    Vial: 5
Acq On    : 16 Oct 2014   9:25 am                     Operator: WILLIAMO
Sample    : MB1                                       Inst    : GCUV
Misc      : GC44651,GUV4733,10.0,,100,10,1            Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 16 15:30 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5756601  226.772 ug/l
Spiked Amount   300.000                   Recovery      =   75.59%

Target Compounds
```

9.2.1

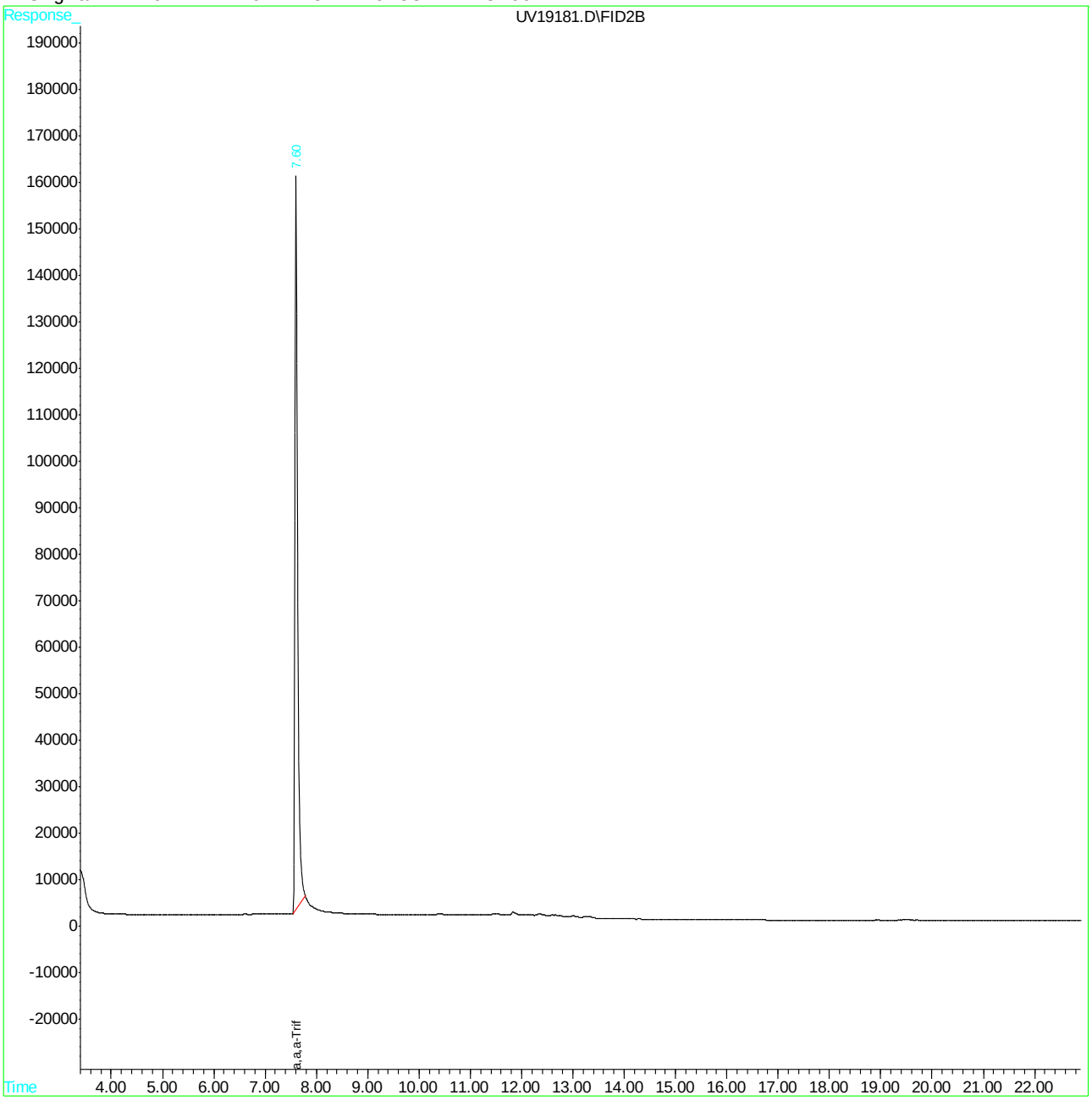
9

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19181.D Vial: 5
Acq On : 16 Oct 2014 9:25 am Operator: WILLIAMO
Sample : MB1 Inst : GCUV
Misc : GC44651,GUV4733,10.0,,100,10,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 16 15:30 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\UV19192.D                    Vial: 16
Acq On    : 16 Oct 2014   3:22 pm                     Operator: WILLIAMO
Sample    : MB2                                       Inst    : GCUV
Misc      : GC44658,GUV4733,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint1.e
Quant Time: Oct 17  8:05 2014  Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title        : Method SW846 8015B (GRO)
Last Update  : Tue Oct 07 13:59:51 2014
Response via : Initial Calibration
DataAcq Meth : MUV4723.M

Volume Inj.  :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info  : DB-624 75m x 0.53mm x 3.0um

     Compound                    R.T.       Response    Conc Units
---------------------------------------------------------------------------

System Monitoring Compounds
 3) S   a,a,a-Trifluorotoluene       7.60        5600599  220.626 ug/l
Spiked Amount   300.000                   Recovery      =   73.54%

Target Compounds
```

9.2.2

9

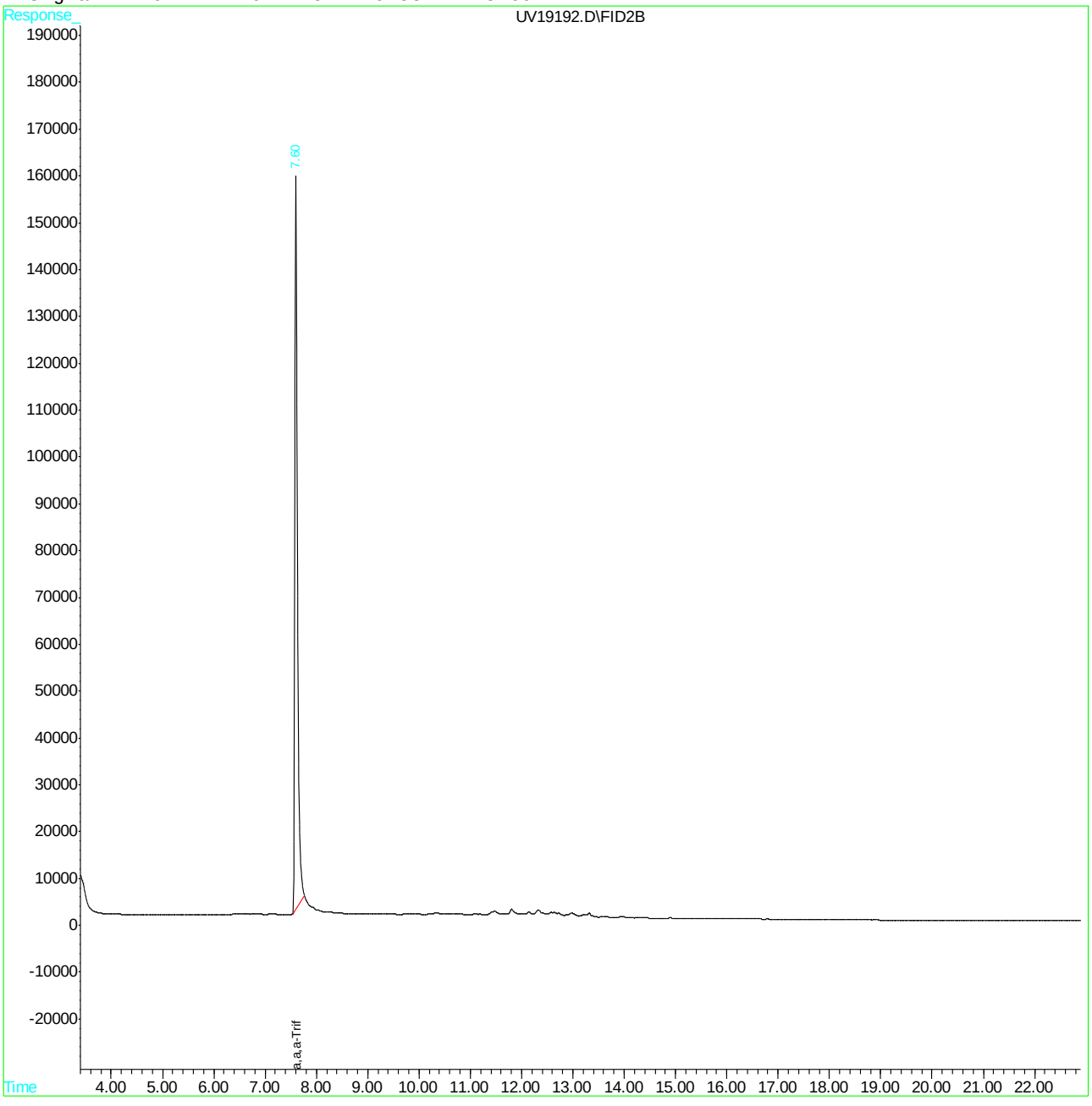
```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window                                (m)=manual int.
UV19192.D  MUV4723.M      Fri Oct 17 08:06:44 2014      GCSY
```

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\UV19192.D
Vial: 16
Acq On : 16 Oct 2014 3:22 pm
Operator: WILLIAMO
Sample : MB2
Inst : GCUV
Misc : GC44658,GUV4733,5.0,,,,1
Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 17 8:05 2014 Quant Results File: MUV4723.RES

Quant Method : C:\HPCHEM\1\METHODS\MUV4723.M (Chemstation Integrator)
Title : Method SW846 8015B (GRO)
Last Update : Tue Oct 07 13:59:51 2014
Response via : Multiple Level Calibration
DataAcq Meth : MUV4723.M

Volume Inj. :
Signal Phase : crossbond phenylmethyl polysiloxane
Signal Info : DB-624 75m x 0.53mm x 3.0um



New Jersey

ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP78850-MB1	2Y65208.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509

The QC reported here applies to the following samples: **Method:** SW846 8015C

JB79217-1, JB79217-2, JB79217-3, JB79217-4, JB79217-5, JB79217-6, JB79217-7, JB79217-8, JB79217-9, JB79217-10, JB79217-11

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.096	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	48%	36-144%
16416-32-3	Tetracosane-d50	57%	32-138%
438-22-2	5a-Androstane	53%	31-136%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP78850-BS1	2Y65209.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509
OP78850-BSD	2Y65210.D	1	10/16/14	JM	10/16/14	OP78850	G2Y2509

The QC reported here applies to the following samples: **Method:** SW846 8015C

JB79217-1, JB79217-2, JB79217-3, JB79217-4, JB79217-5, JB79217-6, JB79217-7, JB79217-8, JB79217-9, JB79217-10, JB79217-11

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	4	1.23	31	1.29	32	5	15-111/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	37%	45%	36-144%
16416-32-3	Tetracosane-d50	41%	48%	32-138%
438-22-2	5a-Androstane	39%	46%	31-136%

10.2.1

10

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Method: SW846 8015C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [a]
JB79217-1	2Y65212.D	67	71	66
JB79217-2	2Y65213.D	62	66	61
JB79217-3	2Y65214.D	68	72	66
JB79217-4	2Y65215.D	73	76	71
JB79217-5	2Y65219.D	72	76	70
JB79217-6	2Y65220.D	64	68	63
JB79217-7	2Y65221.D	59	62	58
JB79217-8	2Y65222.D	38	34	33
JB79217-9	2Y65223.D	86	76	73
JB79217-10	2Y65257.D	579* [b]	220* [b]	300* [b]
JB79217-10	2Y65224.D	42	57	332* [c]
JB79217-11	2Y65225.D	79	83	77
OP78850-BS1	2Y65209.D	37	41	39
OP78850-BSD	2Y65210.D	45	48	46
OP78850-MB1	2Y65208.D	48	57	53

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	36-144%
S2 = Tetracosane-d50	32-138%
S3 = 5a-Androstane	31-136%

(a) Recovery from GC signal #1
(b) Outside control limits due to dilution.
(c) Outside control limits due to matrix interference.

GC Surrogate Retention Time Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	G2Y2508-CC2489	**Injection Date:**	10/16/14
Lab File ID:	2Y65196.D	**Injection Time:**	03:53
Instrument ID:	GC2Y	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT	S3 [a] RT
Check Std	8.78	10.74	9.48

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT
G2Y2508-RT	2Y65198.D	10/16/14	05:04			
ZZZZZZ	2Y65199.D	10/16/14	05:40	8.77	10.74	9.48
ZZZZZZ	2Y65200.D	10/16/14	08:59	8.82	10.75	9.50
ZZZZZZ	2Y65201.D	10/16/14	09:34	8.81	10.74	9.49
ZZZZZZ	2Y65202.D	10/16/14	10:09	8.80	10.73	9.48
ZZZZZZ	2Y65203.D	10/16/14	10:44	8.77	10.74	9.48
ZZZZZZ	2Y65204.D	10/16/14	11:20	8.77	10.74	9.48
JB79098-1	2Y65205.D	10/16/14	11:55	8.77	10.74	9.48

Surrogate Compounds

S1 = o-Terphenyl
S2 = Tetracosane-d50
S3 = 5a-Androstane

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	G2Y2508-CC2489	**Injection Date:**	10/16/14
Lab File ID:	2Y65206.D	**Injection Time:**	13:01
Instrument ID:	GC2Y	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT	S3 [a] RT
Check Std	8.77	10.74	9.47

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT
OP78850-MB1	2Y65208.D	10/16/14	14:26	8.78	10.74	9.48
OP78850-BS1	2Y65209.D	10/16/14	15:17	8.78	10.74	9.48
OP78850-BSD	2Y65210.D	10/16/14	16:18	8.78	10.75	9.49
ZZZZZZ	2Y65211.D	10/16/14	16:53	8.78	10.74	9.48
JB79217-1	2Y65212.D	10/16/14	17:28	8.77	10.74	9.48
JB79217-2	2Y65213.D	10/16/14	18:04	8.77	10.74	9.48
JB79217-3	2Y65214.D	10/16/14	18:39	8.77	10.74	9.48
JB79217-4	2Y65215.D	10/16/14	19:13	8.77	10.74	9.48

Surrogate Compounds

S1 = o-Terphenyl
S2 = Tetracosane-d50
S3 = 5a-Androstane

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	G2Y2509-CC2489	**Injection Date:**	10/16/14
Lab File ID:	2Y65217.D	**Injection Time:**	20:23
Instrument ID:	GC2Y	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT	S3 [a] RT
Check Std	8.78	10.74	9.48

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT
JB79217-5	2Y65219.D	10/16/14	21:33	8.77	10.74	9.48
JB79217-6	2Y65220.D	10/16/14	22:09	8.77	10.74	9.48
JB79217-7	2Y65221.D	10/16/14	22:44	8.78	10.74	9.48
JB79217-8	2Y65222.D	10/16/14	23:19	8.77	10.74	9.48
JB79217-9	2Y65223.D	10/16/14	23:54	8.78	10.74	9.49
JB79217-10	2Y65224.D	10/17/14	00:29	8.78	10.76	9.49
JB79217-11	2Y65225.D	10/17/14	01:03	8.78	10.74	9.48

Surrogate Compounds

S1 = o-Terphenyl
S2 = Tetracosane-d50
S3 = 5a-Androstane

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	G2Y2509-CC2489	**Injection Date:**	10/17/14
Lab File ID:	2Y65227.D	**Injection Time:**	02:14
Instrument ID:	GC2Y	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT	S3 [a] RT
Check Std	8.77	10.74	9.48

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT
G2Y2509-RT	2Y65237.D	10/17/14	03:24			
OP78839-MB1	2Y65229.D	10/17/14	04:00	8.78	10.74	9.48
OP78839-BS1	2Y65230.D	10/17/14	04:35	8.78	10.74	9.48
OP78839-BSD	2Y65231.D	10/17/14	05:10	8.78	10.74	9.48
ZZZZZZ	2Y65232.D	10/17/14	05:45	8.77	10.74	9.48
ZZZZZZ	2Y65234A.D	10/17/14	06:55	8.78	10.74	9.49
ZZZZZZ	2Y65234B.D	10/17/14	07:30	8.78	10.75	9.49

Surrogate Compounds

S1 = o-Terphenyl
S2 = Tetracosane-d50
S3 = 5a-Androstane

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Check Std:	G2Y2510-CC2489	**Injection Date:**	10/17/14
Lab File ID:	2Y65255.D	**Injection Time:**	20:39
Instrument ID:	GC2Y	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT	S3 [a] RT
Check Std	8.78	10.74	9.48

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT
OP78879-MB1	2Y65246.D	10/17/14	21:48	8.77	10.74	9.48
JB79217-10	2Y65257.D	10/17/14	22:22	8.79	10.73	9.50
OP78883-MB1	2Y65258.D	10/17/14	22:57	8.77	10.74	9.48
ZZZZZZ	2Y65259.D	10/17/14	23:32	8.78	10.74	9.48
ZZZZZZ	2Y65260.D	10/18/14	00:07	8.77	10.74	9.47
ZZZZZZ	2Y65261.D	10/18/14	00:42	8.77	10.74	9.48
ZZZZZZ	2Y65262.D	10/18/14	01:17	8.78	10.73	9.48
ZZZZZZ	2Y65263.D	10/18/14	01:52	8.78	10.74	9.48

Surrogate Compounds

S1 = o-Terphenyl
S2 = Tetracosane-d50
S3 = 5a-Androstane

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G2Y2489-ICC2489
Lab FileID: 2Y64728.D

Response Factor Report GC2Y2Z

Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M (Chemstation Integrator)
Title :
Last Update : Tue Sep 23 09:55:03 2014
Response via : Initial Calibration

Calibration Files
250 =2Y64726.D 500 =2Y64727.D 1000=2Y64731.D 2500=2Y64729.D
5000=2Y64730.D 100 =2Y64725.D 10k =2Y64722.D 50k =2Y64721.D 25 =2Y64723.D 50 =2Y64724.D

Compound	250	500	1000	2500	5000	100	10k	50k	25	50	Avg	%RSD
1) TPH-DRO	1.602	2.046	1.864	1.473	1.769	1.414	1.833	1.717	2.289	1.374	1.738 E6	16.62
2) TPH-DRO (C9-	1.602	2.046	1.864	1.473	1.769	1.414	1.833	1.717	2.289	1.374	1.738 E6	16.62
3) TPH-DRO (C10	1.602	2.046	1.864	1.473	1.769	1.414	1.833	1.717	2.289	1.374	1.738 E6	16.62
4) TPH (C12-C40	1.602	2.046	1.864	1.473	1.769	1.414	1.833	1.717	2.289	1.374	1.738 E6	16.62
5) TPH-ORO (>C2	1.602	2.046	1.864	1.473	1.769	1.414	1.833	1.717	2.289	1.374	1.738 E6	16.62
6) TPH-HRO (C18	1.602	2.046	1.864	1.473	1.769	1.414	1.833	1.717	2.289	1.374	1.738 E6	16.62
7) TPH-DRO (C10	1.602	2.046	1.864	1.473	1.769	1.414	1.833	1.717	2.289	1.374	1.738 E6	16.62
8) TPH-ORO (C20	1.602	2.046	1.864	1.473	1.769	1.414	1.833	1.717	2.289	1.374	1.738 E6	16.62
9) o-Terphenyl	1.981	2.821	2.590	2.006	2.533	1.775			2.170	2.080	2.245 E6	16.11
10) 5a-Androstan	1.957	2.603	2.377	1.847	2.254	1.715			2.180	2.080	2.127 E6	13.63
11) Tetracosane-	1.700	2.211	2.079	1.627	1.939	1.466			1.412	1.506	1.742 E6	17.20

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

DRO2Y2489.M Tue Sep 23 09:57:02 2014 RPT1

10.5.1

10

Initial Calibration Verification

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G2Y2489-ICV2489
Lab FileID: 2Y64732.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\G2Y2489\2Y64732.D          Vial: 13
Acq On    : 23 Sep 2014   9:09 am                    Operator: jinnym
Sample    : icv2449-1000                             Inst    : GC2Y2Z
Misc      : op78107,g2Y2489,500,,,1,1                Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\1\METHODS\DRO2Y2489.M (Chemstation Integrator)
Title        :
Last Update  : Tue Sep 23 09:55:03 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.738	1.391 E6	20.0	75	0.00	2.88-12.45
2	H	TPH-DRO (C9-C16)		----------NA----------				
3	H	TPH-DRO (C10-C44)		----------NA----------				
4	H	TPH (C12-C40)		----------NA----------				
5	H	TPH-ORO (>C28-C40)		----------NA----------				
6	H	TPH-HRO (C18-C36)		----------NA----------				
7	H	TPH-DRO (C10-C20)		----------NA----------				
8	H	TPH-ORO (C20-C34)		----------NA----------				
9	S	o-Terphenyl		----------NA----------				
10	S	5a-Androstane		----------NA----------				
11	S	Tetracosane-d50		----------NA----------				

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2Y64731.D  DRO2Y2489.M       Tue Sep 23 09:57:22 2014   RPT1
```

10.5.2

10

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: G2Y2508-CC2489
Lab FileID: 2Y65196.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\G2Y2508\2Y65196.D          Vial: 3
Acq On    : 16 Oct 2014   3:53 am                    Operator: jinnym
Sample    : cc2489-500                               Inst    : GC2Y2Z
Misc      : op78817,g2y2508,10.0,,,1,1               Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\1\METHODS\DRO2Y2489.M (Chemstation Integrator)
Title        :
Last Update  : Wed Oct 15 11:11:27 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.738	1.701 E6	2.1	83	0.00	2.88-12.45
2	H	TPH-DRO (C9-C16)		----------NA----------				
3	H	TPH-DRO (C10-C44)		----------NA----------				
4	H	TPH (C12-C40)		----------NA----------				
5	H	TPH-ORO (>C28-C40)		----------NA----------				
6	H	TPH-HRO (C18-C36)		----------NA----------				
7	H	TPH-DRO (C10-C20)		----------NA----------				
8	H	TPH-ORO (C20-C34)		----------NA----------				
9	S	o-Terphenyl	2.245	2.143 E6	4.5	76	0.01	8.75- 8.81
10	S	5a-Androstane	2.127	1.997 E6	6.1	77	0.00	9.45- 9.51
11	S	Tetracosane-d50	1.742	1.763 E6	-1.2	80	0.00	10.71-10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2Y64727.D DRO2Y2489.M Thu Oct 16 07:49:36 2014 RPT1

10.5.3 10

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G2Y2508-CC2489
Lab FileID: 2Y65206.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\G2Y2508\2Y65206.D          Vial: 4
Acq On    : 16 Oct 2014   1:01 pm                    Operator: jinnym
Sample    : cc2489-1000                              Inst    : GC2Y2Z
Misc      : op78817,g2y2508,10.0,,,1,1               Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\1\METHODS\DRO2Y2489.M (Chemstation Integrator)
Title        :
Last Update  : Thu Oct 16 14:11:08 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.738	1.664 E6	4.3	89	0.00	2.88-12.45
2	H	TPH-DRO (C9-C16)		----------NA----------				
3	H	TPH-DRO (C10-C44)		----------NA----------				
4	H	TPH (C12-C40)		----------NA----------				
5	H	TPH-ORO (>C28-C40)		----------NA----------				
6	H	TPH-HRO (C18-C36)		----------NA----------				
7	H	TPH-DRO (C10-C20)		----------NA----------				
8	H	TPH-ORO (C20-C34)		----------NA----------				
9	S	o-Terphenyl	2.245	2.324 E6	-3.5	90	0.00	8.74- 8.80
10	S	5a-Androstane	2.127	2.108 E6	0.9	89	0.00	9.44- 9.50
11	S	Tetracosane-d50	1.742	1.846 E6	-6.0	89	0.00	10.71-10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2Y65206.D DRO2Y2489.M Thu Oct 16 17:33:42 2014 RPT1

10.5.4 10

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: G2Y2509-CC2489
Lab FileID: 2Y65217.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\G2Y2509\2Y65217.D          Vial: 3
Acq On    : 16 Oct 2014   8:23 pm                    Operator: jinnym
Sample    : cc2489-500                               Inst    : GC2Y2Z
Misc      : op78850,g2y2509,300,,,1,1                Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\1\METHODS\DRO2Y2489.M (Chemstation Integrator)
Title        :
Last Update  : Tue Sep 23 09:55:03 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.738	1.662 E6	4.4	81	0.00	2.88-12.45
2	H	TPH-DRO (C9-C16)		----------NA----------				
3	H	TPH-DRO (C10-C44)		----------NA----------				
4	H	TPH (C12-C40)		----------NA----------				
5	H	TPH-ORO (>C28-C40)		----------NA----------				
6	H	TPH-HRO (C18-C36)		----------NA----------				
7	H	TPH-DRO (C10-C20)		----------NA----------				
8	H	TPH-ORO (C20-C34)		----------NA----------				
9	S	o-Terphenyl	2.245	2.226 E6	0.8	79	-0.15	8.75- 8.81
10	S	5a-Androstane	2.127	2.055 E6	3.4	79	-0.06	9.45- 9.51
11	S	Tetracosane-d50	1.742	1.814 E6	-4.1	82	-0.08	10.71-10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2Y64727.D DRO2Y2489.M Fri Oct 17 14:30:28 2014 RPT1

10.5.5 10

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: G2Y2509-CC2489
Lab FileID: 2Y65227.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\G2Y2509\2Y65227.D          Vial: 4
Acq On    : 17 Oct 2014   2:14 am                    Operator: jinnym
Sample    : cc2489-1000                              Inst    : GC2Y2Z
Misc      : op78850,g2y2509,300,,,1,1                Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\1\METHODS\DRO2Y2489.M (Chemstation Integrator)
Title        :
Last Update  : Tue Sep 23 09:55:03 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.738	1.683 E6	3.2	90	0.00	2.88-12.45
2	H	TPH-DRO (C9-C16)		----------NA----------				
3	H	TPH-DRO (C10-C44)		----------NA----------				
4	H	TPH (C12-C40)		----------NA----------				
5	H	TPH-ORO (>C28-C40)		----------NA----------				
6	H	TPH-HRO (C18-C36)		----------NA----------				
7	H	TPH-DRO (C10-C20)		----------NA----------				
8	H	TPH-ORO (C20-C34)		----------NA----------				
9	S	o-Terphenyl	2.245	2.323 E6	-3.5	90	-0.16	8.74- 8.80
10	S	5a-Androstane	2.127	2.150 E6	-1.1	90	-0.06	9.45- 9.51
11	S	Tetracosane-d50	1.742	1.880 E6	-7.9	90	-0.08	10.71-10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2Y64731.D DRO2Y2489.M Fri Oct 17 14:30:07 2014 RPT1

10.5.6

10

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: G2Y2509-CC2489
Lab FileID: 2Y65235.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\G2Y2509\2Y65235.D          Vial: 3
Acq On    : 17 Oct 2014   8:40 am                    Operator: jinnym
Sample    : cc2489-500                               Inst    : GC2Y2Z
Misc      : op78839,g2y2509,1000,,,1,1               Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\1\METHODS\DRO2Y2489.M (Chemstation Integrator)
Title        :
Last Update  : Tue Sep 23 09:55:03 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.738	1.573 E6	9.5	77	0.00	2.88-12.45
2	H	TPH-DRO (C9-C16)		----------NA----------				
3	H	TPH-DRO (C10-C44)		----------NA----------				
4	H	TPH (C12-C40)		----------NA----------				
5	H	TPH-ORO (>C28-C40)		----------NA----------				
6	H	TPH-HRO (C18-C36)		----------NA----------				
7	H	TPH-DRO (C10-C20)		----------NA----------				
8	H	TPH-ORO (C20-C34)		----------NA----------				
9	S	o-Terphenyl	2.245	2.313 E6	-3.0	82	-0.15	8.75- 8.81
10	S	5a-Androstane	2.127	2.138 E6	-0.5	82	-0.06	9.45- 9.51
11	S	Tetracosane-d50	1.742	1.891 E6	-8.6	86	-0.08	10.70-10.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2Y64727.D DRO2Y2489.M Fri Oct 17 14:30:29 2014 RPT1

10.5.7 10

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD
Sample: G2Y2510-CC2489
Lab FileID: 2Y65255.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\G2Y2510\2Y65255.D          Vial: 3
Acq On    : 17 Oct 2014   8:39 pm                    Operator: jinnym
Sample    : cc2489-500                               Inst    : GC2Y2Z
Misc      : op78879,g2y2510,150,,,1,1                Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\1\METHODS\DRO2Y2489.M (Chemstation Integrator)
Title        :
Last Update  : Mon Oct 20 11:40:16 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.738	1.669 E6	4.0	82	0.00	2.88-12.45
2	H	TPH-DRO (C9-C16)		----------NA----------				
3	H	TPH-DRO (C10-C44)		----------NA----------				
4	H	TPH (C12-C40)		----------NA----------				
5	H	TPH-ORO (>C28-C40)		----------NA----------				
6	H	TPH-HRO (C18-C36)		----------NA----------				
7	H	TPH-DRO (C10-C20)		----------NA----------				
8	H	TPH-ORO (C20-C34)		----------NA----------				
9	S	o-Terphenyl	2.245	2.286 E6	-1.8	81	0.00	8.75- 8.81
10	S	5a-Androstane	2.127	2.133 E6	-0.3	82	0.00	9.45- 9.51
11	S	Tetracosane-d50	1.742	1.875 E6	-7.6	85	0.00	10.71-10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2Y64727.D DRO2Y2489.M Mon Oct 20 11:46:34 2014 RPT1

10.5.8

10

Continuing Calibration Summary

Job Number: JB79217
Account: PILOTSS Pilot Travel Centers LLC
Project: SCNJCH: #290, Heather Lane, Perryville, MD

Sample: G2Y2510-CC2489
Lab FileID: 2Y65265.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\G2Y2510\2Y65265.D          Vial: 4
Acq On    : 18 Oct 2014   3:02 am                    Operator: jinnym
Sample    : cc2489-1000                              Inst    : GC2Y2Z
Misc      : op78883,g2y2510,10.0,,,1,1               Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\1\METHODS\DRO2Y2489.M (Chemstation Integrator)
Title        :
Last Update  : Mon Oct 20 11:40:16 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 : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	H	TPH-DRO	1.738	1.747 E6	-0.5	94	0.00	2.88-12.45
2	H	TPH-DRO (C9-C16)		----------NA----------				
3	H	TPH-DRO (C10-C44)		----------NA----------				
4	H	TPH (C12-C40)		----------NA----------				
5	H	TPH-ORO (>C28-C40)		----------NA----------				
6	H	TPH-HRO (C18-C36)		----------NA----------				
7	H	TPH-DRO (C10-C20)		----------NA----------				
8	H	TPH-ORO (C20-C34)		----------NA----------				
9	S	o-Terphenyl	2.245	2.389 E6	-6.4	92	0.00	8.75- 8.81
10	S	5a-Androstane	2.127	2.199 E6	-3.4	93	0.00	9.45- 9.51
11	S	Tetracosane-d50	1.742	1.943 E6	-11.5	93	0.00	10.71-10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2Y65275.D DRO2Y2489.M Mon Oct 20 11:46:00 2014 RPT1

10.5.9 10

New Jersey

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65212.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 5:28 pm
Operator : jinnym
Sample : jb79217-1
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:36:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	8.77	75603372	33.682 PPM
Spiked Amount 50.000		Recovery	= 67.36%
10) S 5a-Androstane	9.48	70402486	33.106 PPM
Spiked Amount 50.000		Recovery	= 66.21%
11) S Tetracosane-d50	10.74	62223104	35.712 PPM
Spiked Amount 50.000		Recovery	= 71.42%
Target Compounds			
1) H TPH-DRO	7.67	299679615	172.419 PPM
3) H TPH-DRO (C10-C44)	13.18	354703912	204.077 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.1

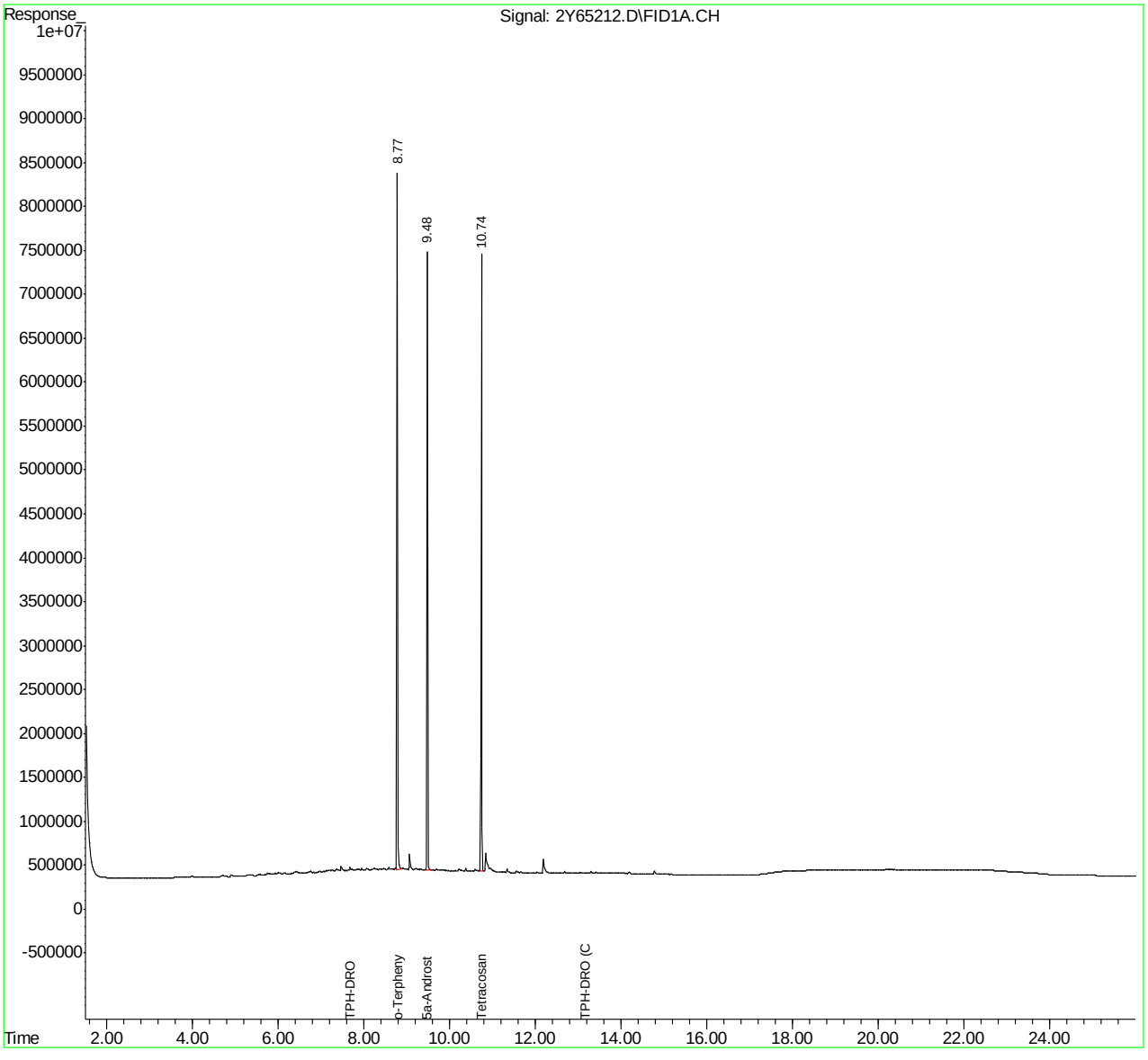
11

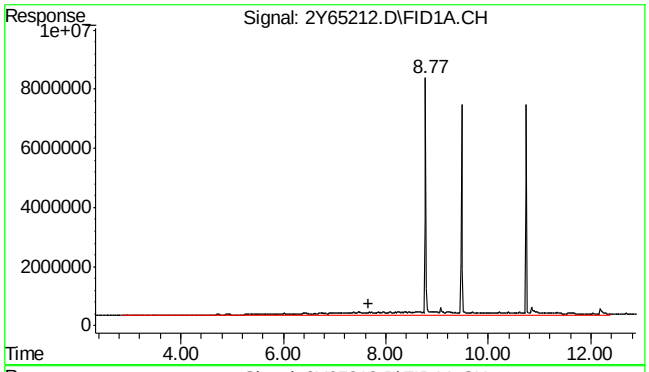
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65212.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 5:28 pm
Operator : jinnym
Sample : jb79217-1
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:36:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

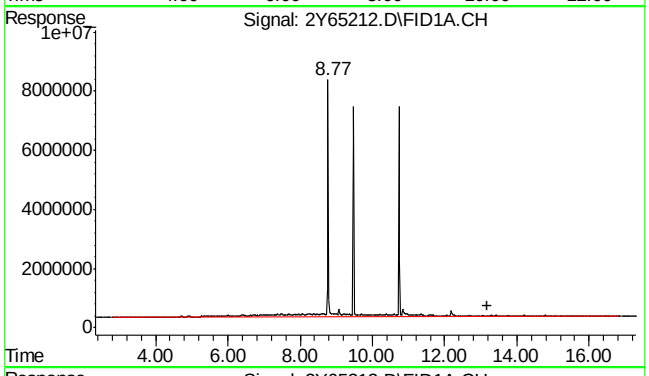
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





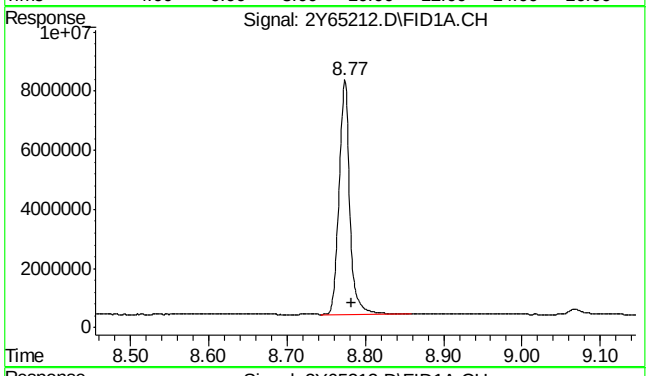
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 299679615
Conc: 172.42 PPM m



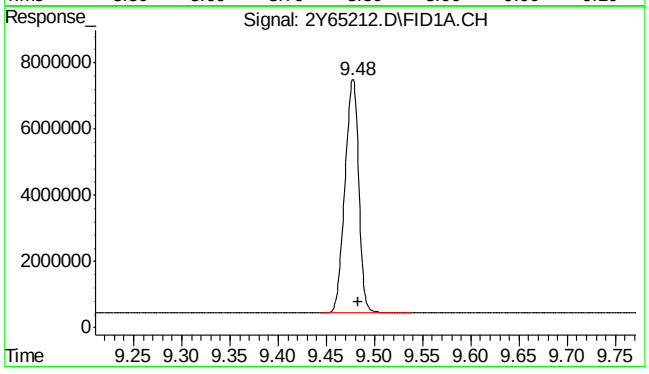
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 354703912
Conc: 204.08 PPM m



#9 o-Terphenyl

R.T.: 8.774 min
Delta R.T.: -0.008 min
Response: 75603372
Conc: 33.68 PPM

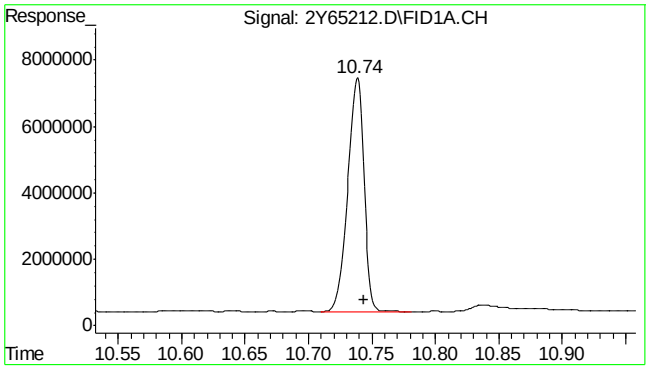


#10 5a-Androstane

R.T.: 9.478 min
Delta R.T.: -0.005 min
Response: 70402486
Conc: 33.11 PPM

11.1.1

11



#11 Tetracosane-d50

R.T.:	10.739 min
Delta R.T.:	-0.005 min
Response:	62223104
Conc:	35.71 PPM

11.1.1

11

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 10/21/14 14:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65213.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 6:04 pm
Operator : jinnym
Sample : jb79217-2
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:36:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	8.77	70128835	31.243	PPM	m
Spiked Amount 50.000		Recovery =	62.49%		
10) S 5a-Androstane	9.48	64856951	30.498	PPM	m
Spiked Amount 50.000		Recovery =	61.00%		
11) S Tetracosane-d50	10.74	57325517	32.901	PPM	m
Spiked Amount 50.000		Recovery =	65.80%		
Target Compounds					
1) H TPH-DRO	7.67	444098314	255.509	PPM	
3) H TPH-DRO (C10-C44)	13.18	791213951	455.220	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

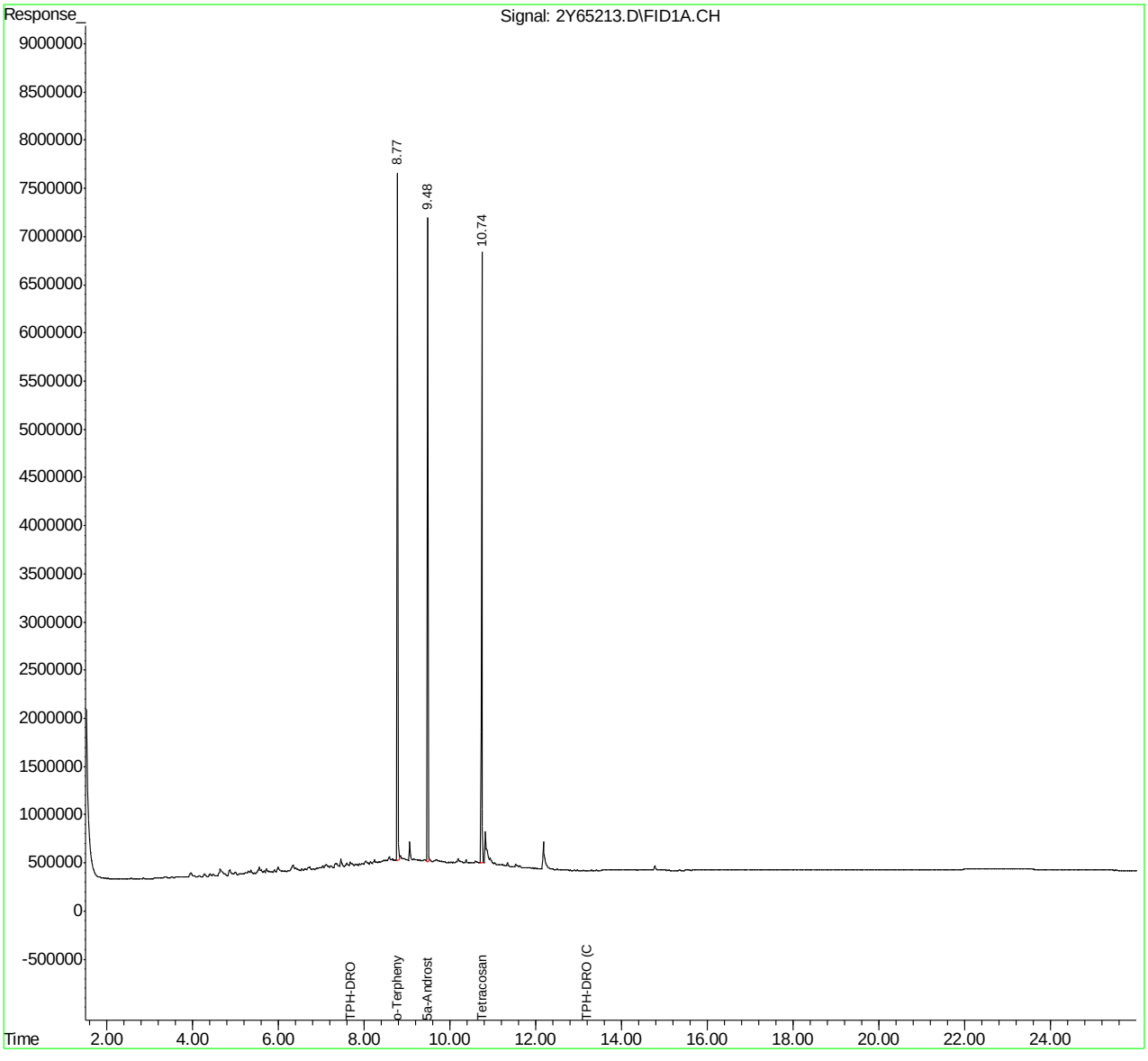
11.1.2 11

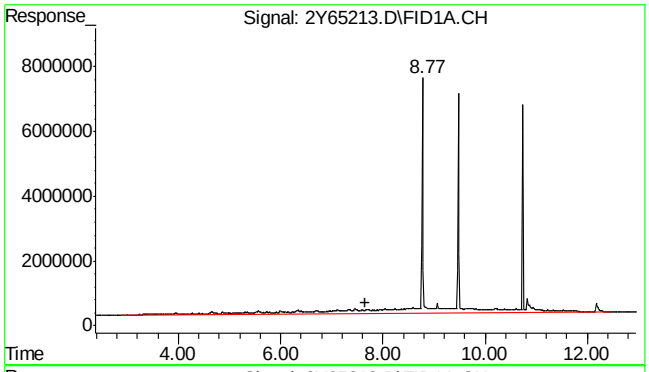
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65213.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 6:04 pm
Operator : jinnym
Sample : jb79217-2
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:36:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

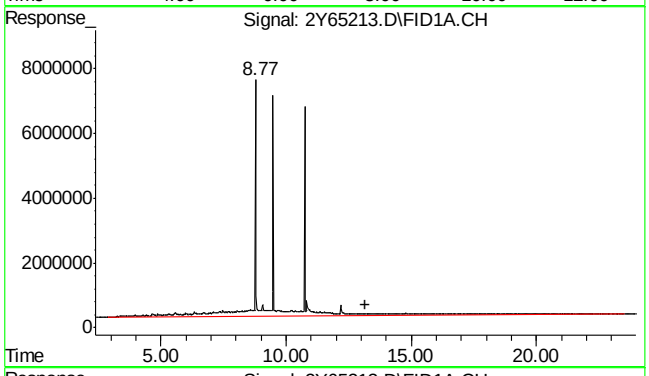
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





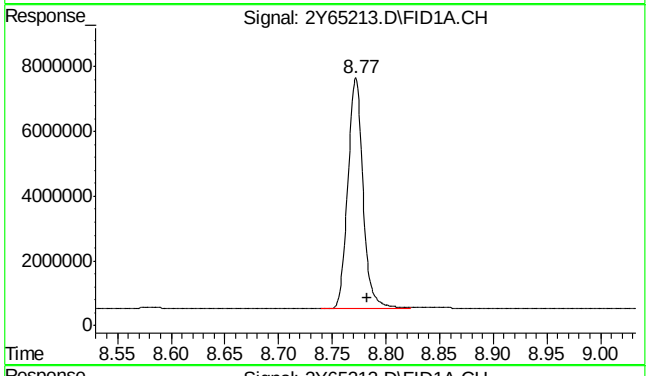
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 444098314
Conc: 255.51 PPM m



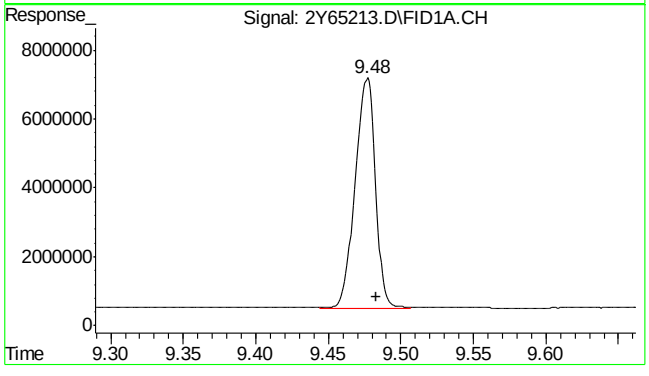
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 791213951
Conc: 455.22 PPM m



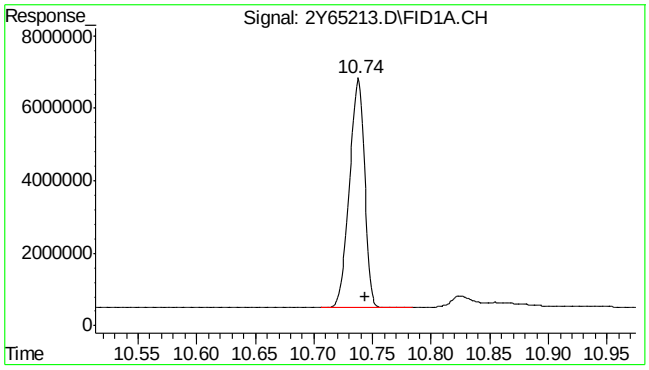
#9 o-Terphenyl

R.T.: 8.772 min
Delta R.T.: -0.011 min
Response: 70128835
Conc: 31.24 PPM m



#10 5a-Androstane

R.T.: 9.477 min
Delta R.T.: -0.006 min
Response: 64856951
Conc: 30.50 PPM m



#11 Tetracosane-d50

R.T.:	10.738 min
Delta R.T.:	-0.006 min
Response:	57325517
Conc:	32.90 PPM m

Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
10/21/14 14:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65214.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 6:39 pm
Operator : jinnym
Sample : jb79217-3
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:37:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	8.77	76650654	34.149	PPM	m
Spiked Amount 50.000		Recovery =	68.30%		
10) S 5a-Androstane	9.48	69857053	32.849	PPM	m
Spiked Amount 50.000		Recovery =	65.70%		
11) S Tetracosane-d50	10.74	62344097	35.782	PPM	m
Spiked Amount 50.000		Recovery =	71.56%		
Target Compounds					
1) H TPH-DRO	7.67	456645375	262.728	PPM	
3) H TPH-DRO (C10-C44)	13.18	782998208	450.493	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

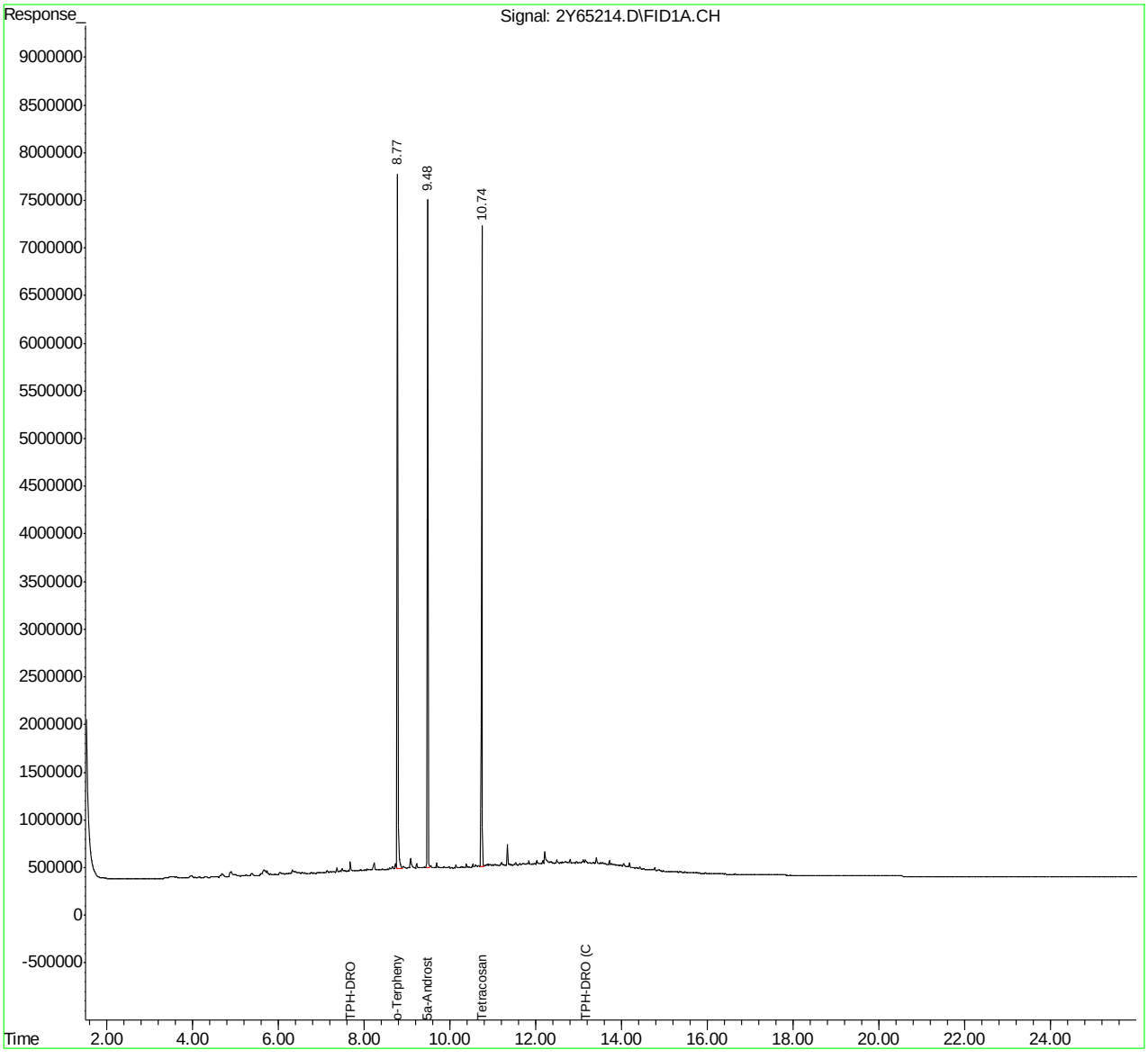
11.1.3
11

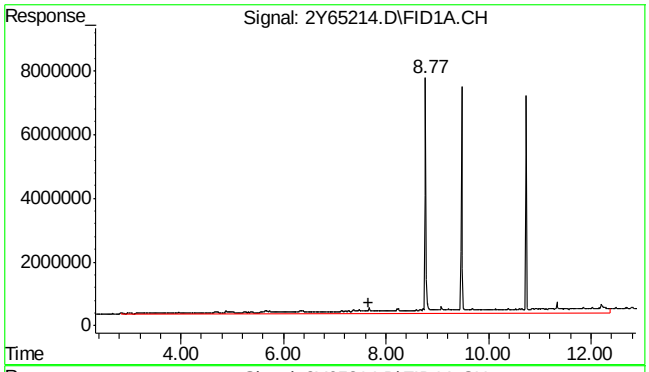
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65214.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 6:39 pm
Operator : jinnym
Sample : jb79217-3
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:37:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

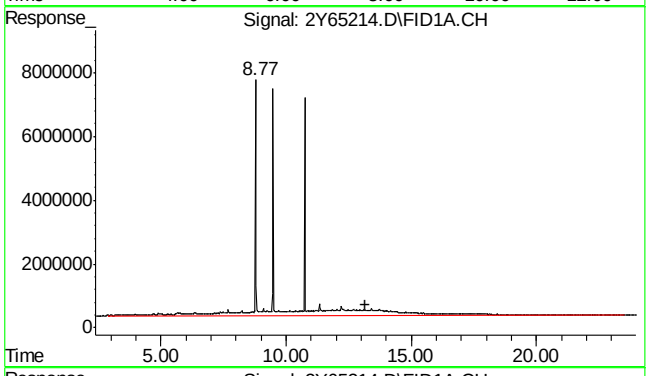
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





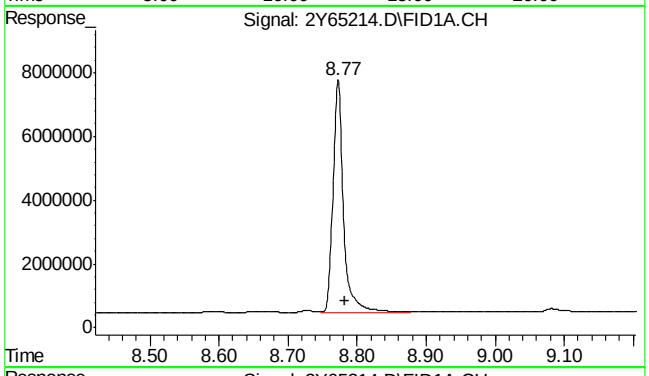
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 456645375
Conc: 262.73 PPM m



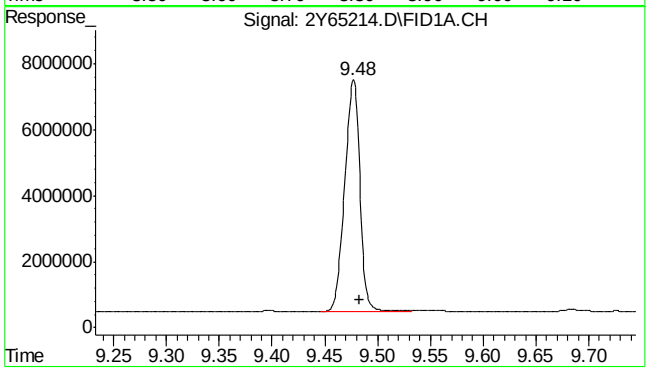
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 782998208
Conc: 450.49 PPM m



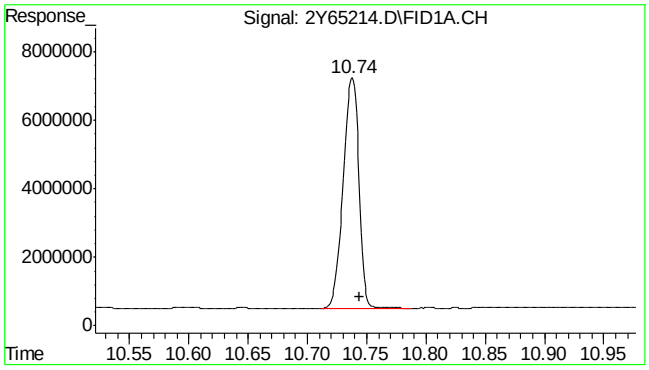
#9 o-Terphenyl

R.T.: 8.772 min
Delta R.T.: -0.010 min
Response: 76650654
Conc: 34.15 PPM m



#10 5a-Androstane

R.T.: 9.477 min
Delta R.T.: -0.006 min
Response: 69857053
Conc: 32.85 PPM m



#11 Tetracosane-d50

R.T.:	10.738 min
Delta R.T.:	-0.006 min
Response:	62344097
Conc:	35.78 PPM m

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 10/21/14 14:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65215.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 7:13 pm
Operator : jinnym
Sample : jb79217-4
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:38:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	8.77	81587830	36.349	PPM	m
Spiked Amount 50.000		Recovery =	72.70%		
10) S 5a-Androstane	9.48	75335806	35.426	PPM	m
Spiked Amount 50.000		Recovery =	70.85%		
11) S Tetracosane-d50	10.74	66556134	38.199	PPM	m
Spiked Amount 50.000		Recovery =	76.40%		
Target Compounds					
1) H TPH-DRO	7.67	553052193	318.195	PPM	
3) H TPH-DRO (C10-C44)	13.18	850836769	489.524	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

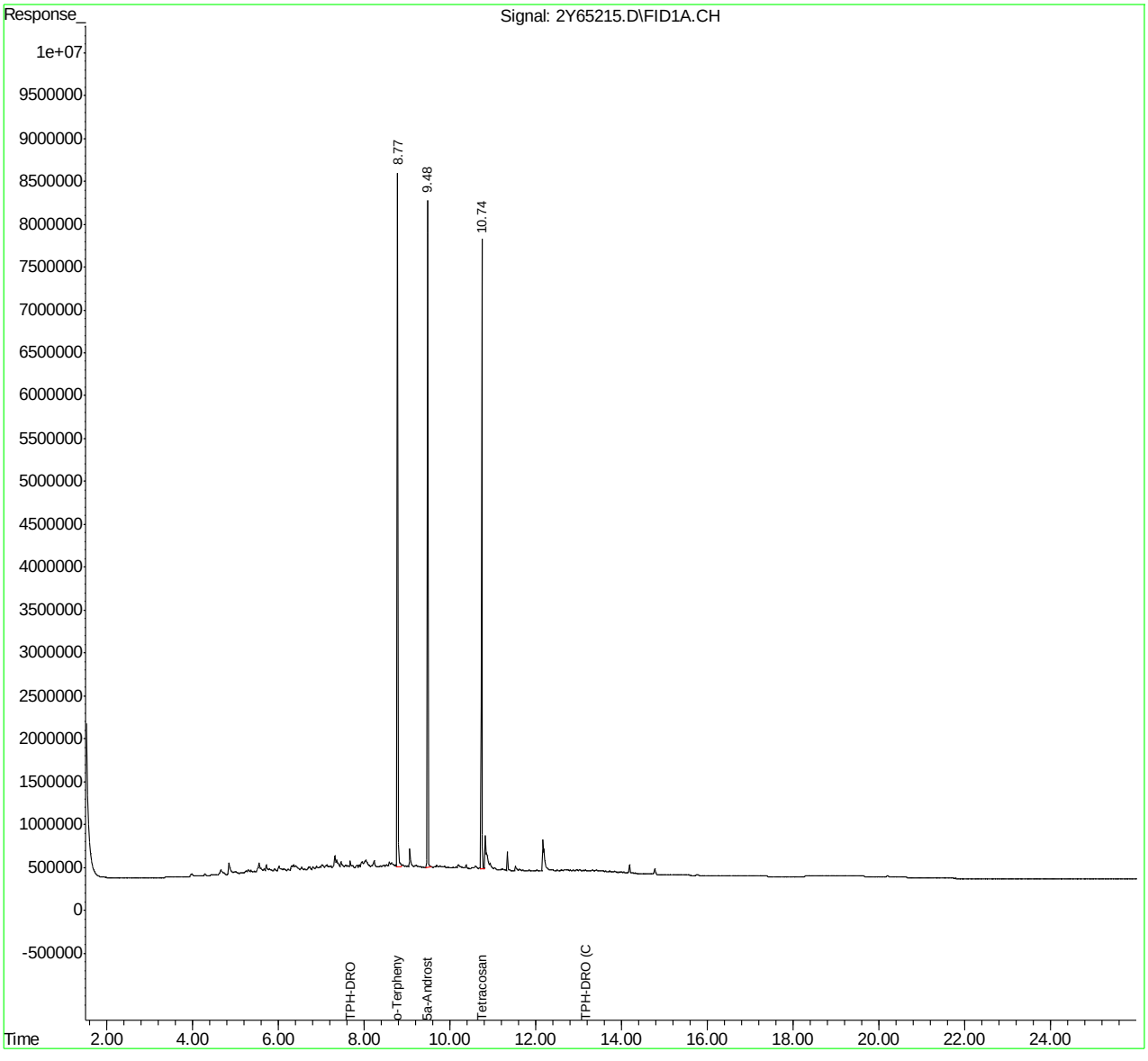
11.1.4
11

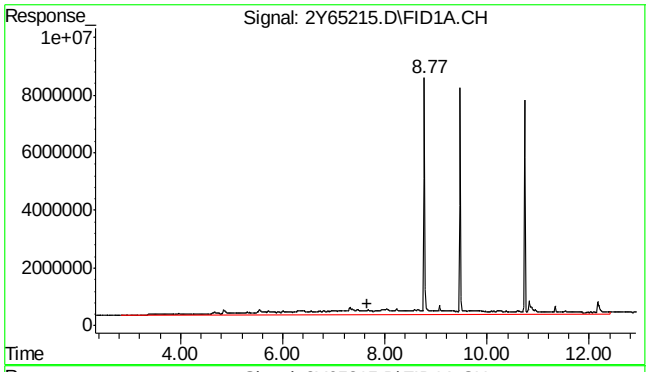
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65215.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 7:13 pm
Operator : jinnym
Sample : jb79217-4
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:38:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

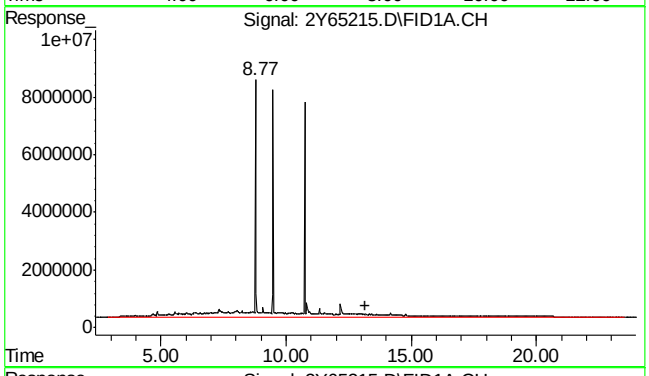
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





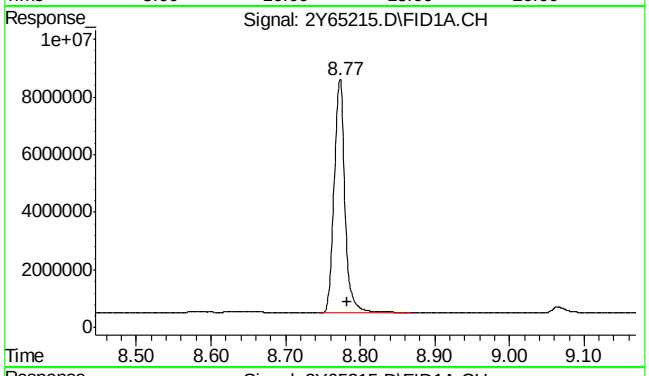
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 553052193
Conc: 318.20 PPM m



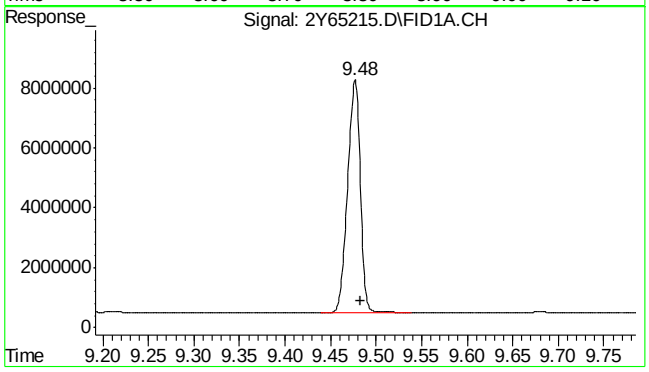
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 850836769
Conc: 489.52 PPM m



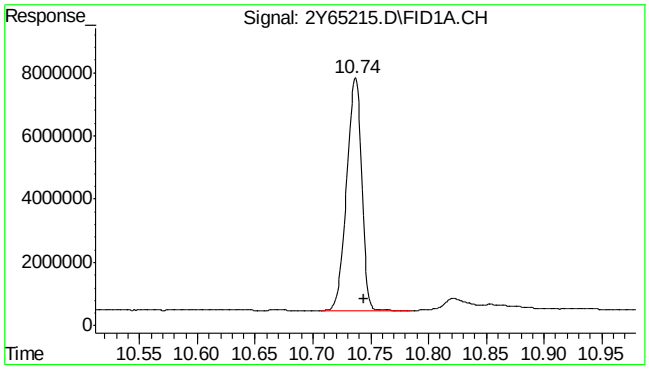
#9 o-Terphenyl

R.T.: 8.773 min
Delta R.T.: -0.010 min
Response: 81587830
Conc: 36.35 PPM m



#10 5a-Androstane

R.T.: 9.477 min
Delta R.T.: -0.007 min
Response: 75335806
Conc: 35.43 PPM m



#11 Tetracosane-d50

R.T.:	10.737 min
Delta R.T.:	-0.007 min
Response:	66556134
Conc:	38.20 PPM m

11.1.4

11

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 10/21/14 14:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65219.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 9:33 pm
Operator : jinnym
Sample : jb79217-5
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:39:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	8.77	80433574	35.834 PPM
Spiked Amount 50.000		Recovery =	71.67%
10) S 5a-Androstane	9.48	74451337	35.010 PPM
Spiked Amount 50.000		Recovery =	70.02%
11) S Tetracosane-d50	10.74	66352303	38.082 PPM m
Spiked Amount 50.000		Recovery =	76.16%
Target Compounds			
1) H TPH-DRO	7.67	361524485	208.001 PPM
3) H TPH-DRO (C10-C44)	13.18	666667516	383.563 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

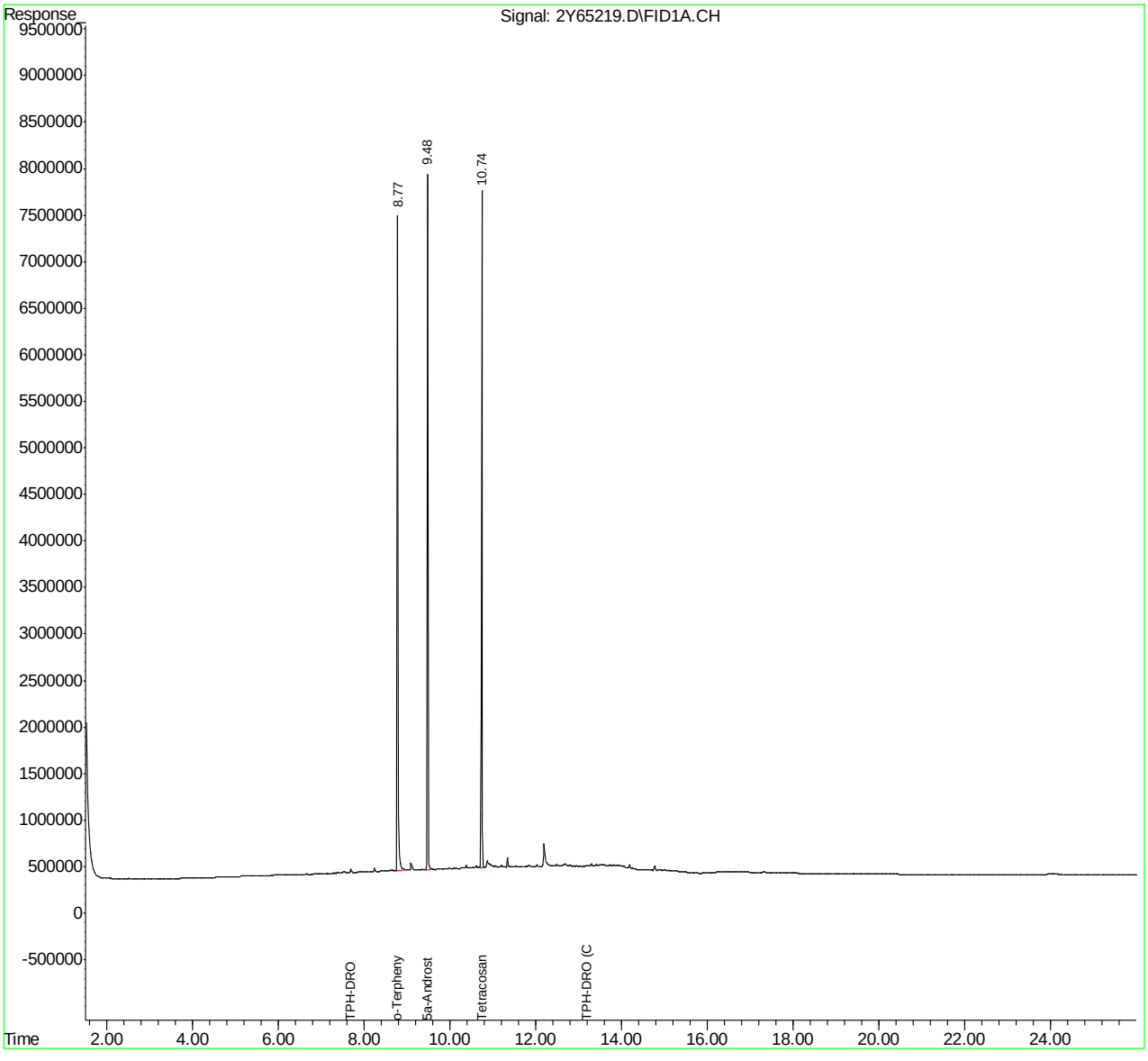
11.1.5 11

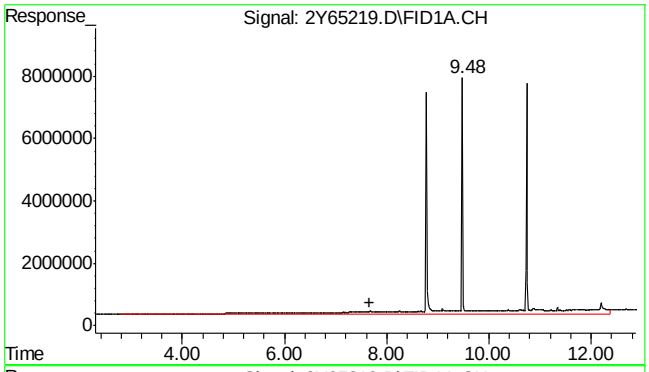
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65219.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 9:33 pm
Operator : jinnym
Sample : jb79217-5
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:39:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

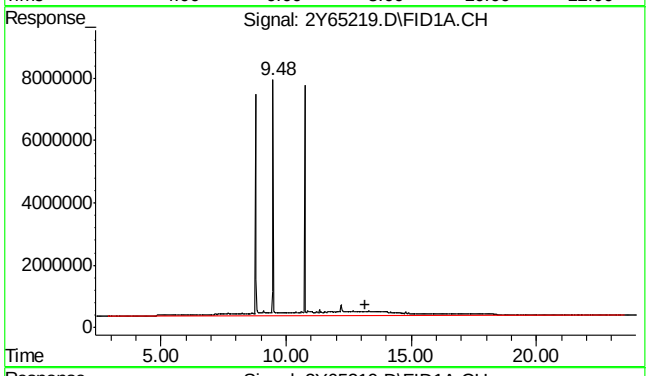
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





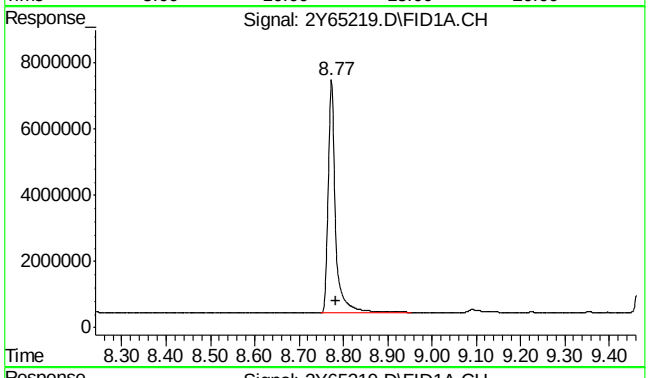
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 361524485
Conc: 208.00 PPM m



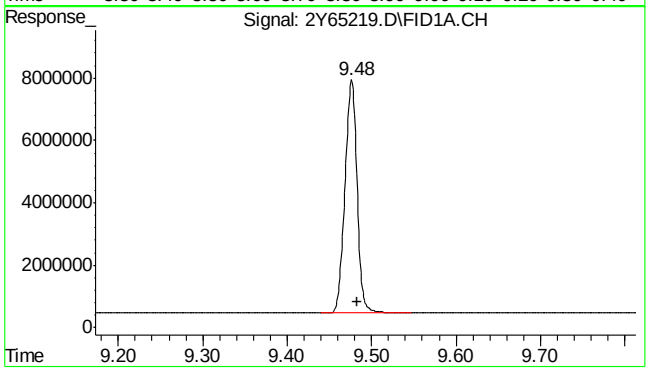
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 666667516
Conc: 383.56 PPM m



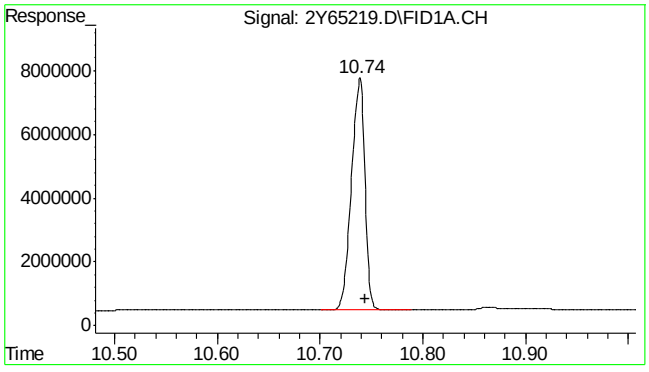
#9 o-Terphenyl

R.T.: 8.774 min
Delta R.T.: -0.009 min
Response: 80433574
Conc: 35.83 PPM



#10 5a-Androstane

R.T.: 9.477 min
Delta R.T.: -0.007 min
Response: 74451337
Conc: 35.01 PPM



#11 Tetracosane-d50

R.T.:	10.739 min
Delta R.T.:	-0.005 min
Response:	66352303
Conc:	38.08 PPM m

11.1.5

11

Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
10/21/14 14:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65220.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 10:09 pm
Operator : jinnym
Sample : jb79217-6
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:44:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	8.77	71417608	31.818	PPM	m
Spiked Amount 50.000		Recovery =	63.64%		
10) S 5a-Androstane	9.48	66952494	31.483	PPM	m
Spiked Amount 50.000		Recovery =	62.97%		
11) S Tetracosane-d50	10.74	59113774	33.928	PPM	m
Spiked Amount 50.000		Recovery =	67.86%		
Target Compounds					
1) H TPH-DRO	7.67	983754227	565.997	PPM	
3) H TPH-DRO (C10-C44)	13.18	1238156548	712.366	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

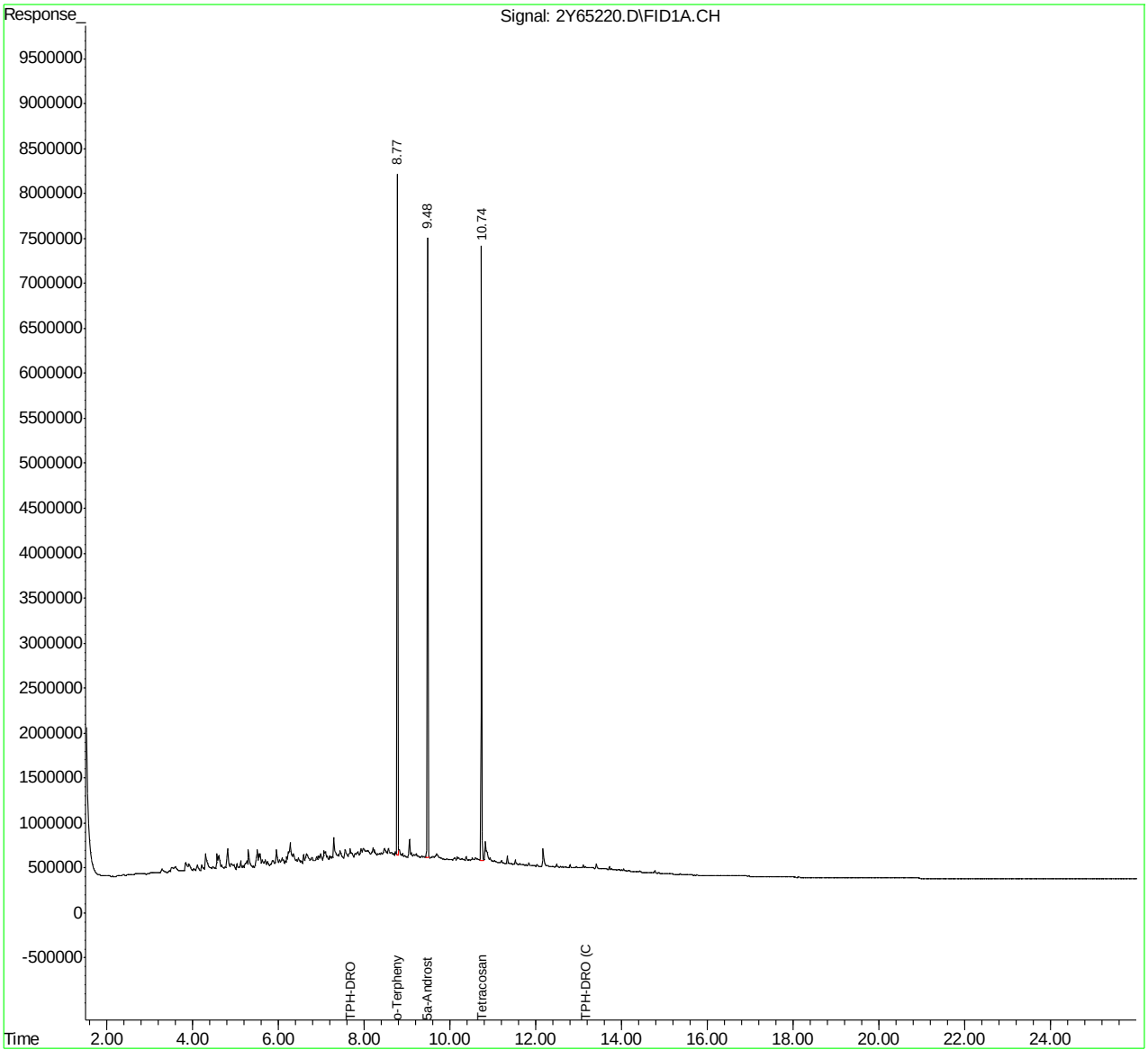
11.1.6
11

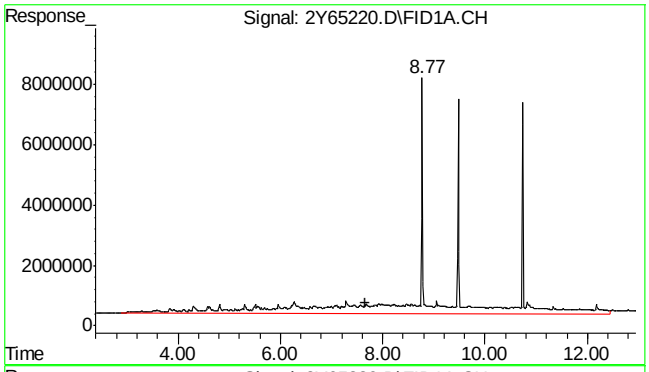
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65220.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 10:09 pm
Operator : jinnym
Sample : jb79217-6
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:44:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

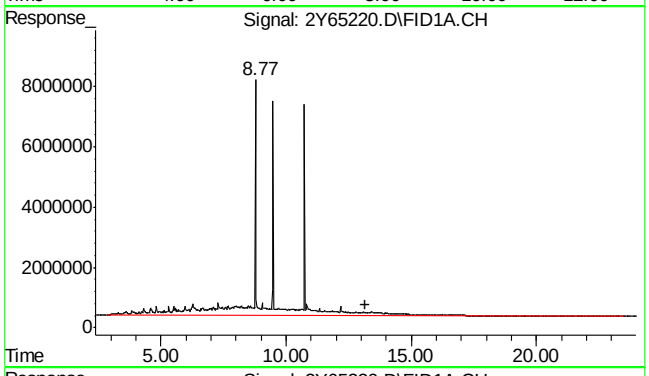
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





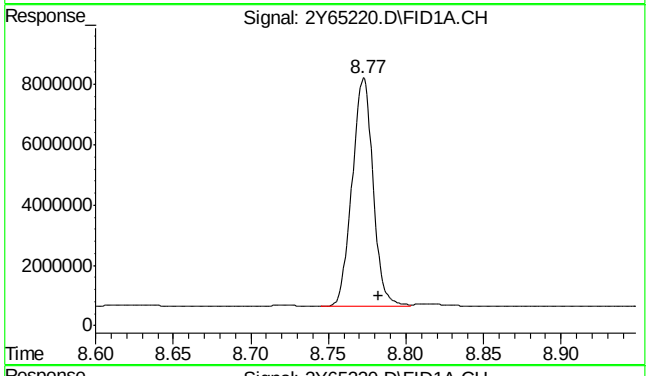
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 983754227
Conc: 566.00 PPM m



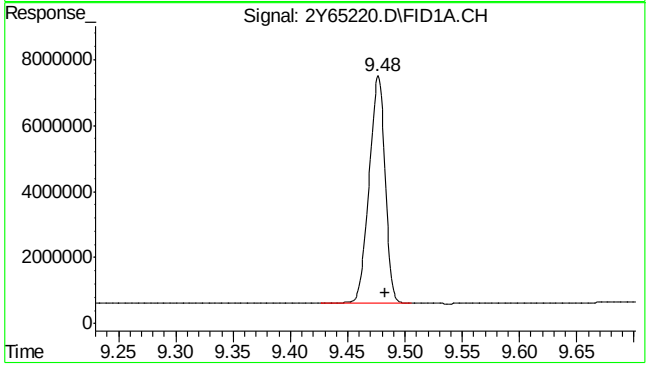
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 1238156548
Conc: 712.37 PPM m



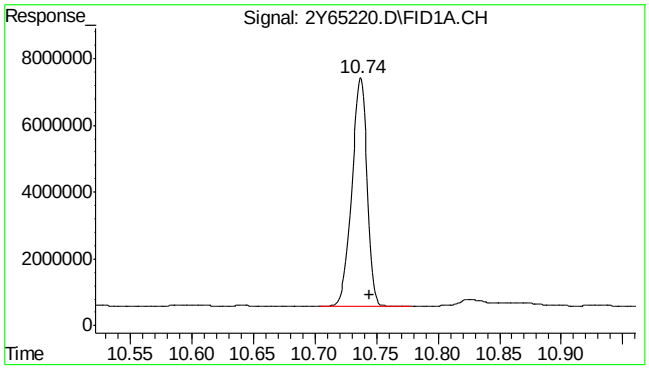
#9 o-Terphenyl

R.T.: 8.773 min
Delta R.T.: -0.010 min
Response: 71417608
Conc: 31.82 PPM m



#10 5a-Androstane

R.T.: 9.476 min
Delta R.T.: -0.007 min
Response: 66952494
Conc: 31.48 PPM m



#11 Tetracosane-d50

R.T.: 10.737 min
Delta R.T.: -0.007 min
Response: 59113774
Conc: 33.93 PPM m

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 10/21/14 14:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65221.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 10:44 pm
Operator : jinnym
Sample : jb79217-7
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:45:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	8.78	66351328	29.561	PPM	m
Spiked Amount 50.000		Recovery =	59.12%		
10) S 5a-Androstane	9.48	61802090	29.062	PPM	m
Spiked Amount 50.000		Recovery =	58.12%		
11) S Tetracosane-d50	10.74	54015602	31.002	PPM	m
Spiked Amount 50.000		Recovery =	62.00%		
Target Compounds					
1) H TPH-DRO	7.67	6754589935	3886.213	PPM	
3) H TPH-DRO (C10-C44)	13.18	7131902814	4103.298	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.7

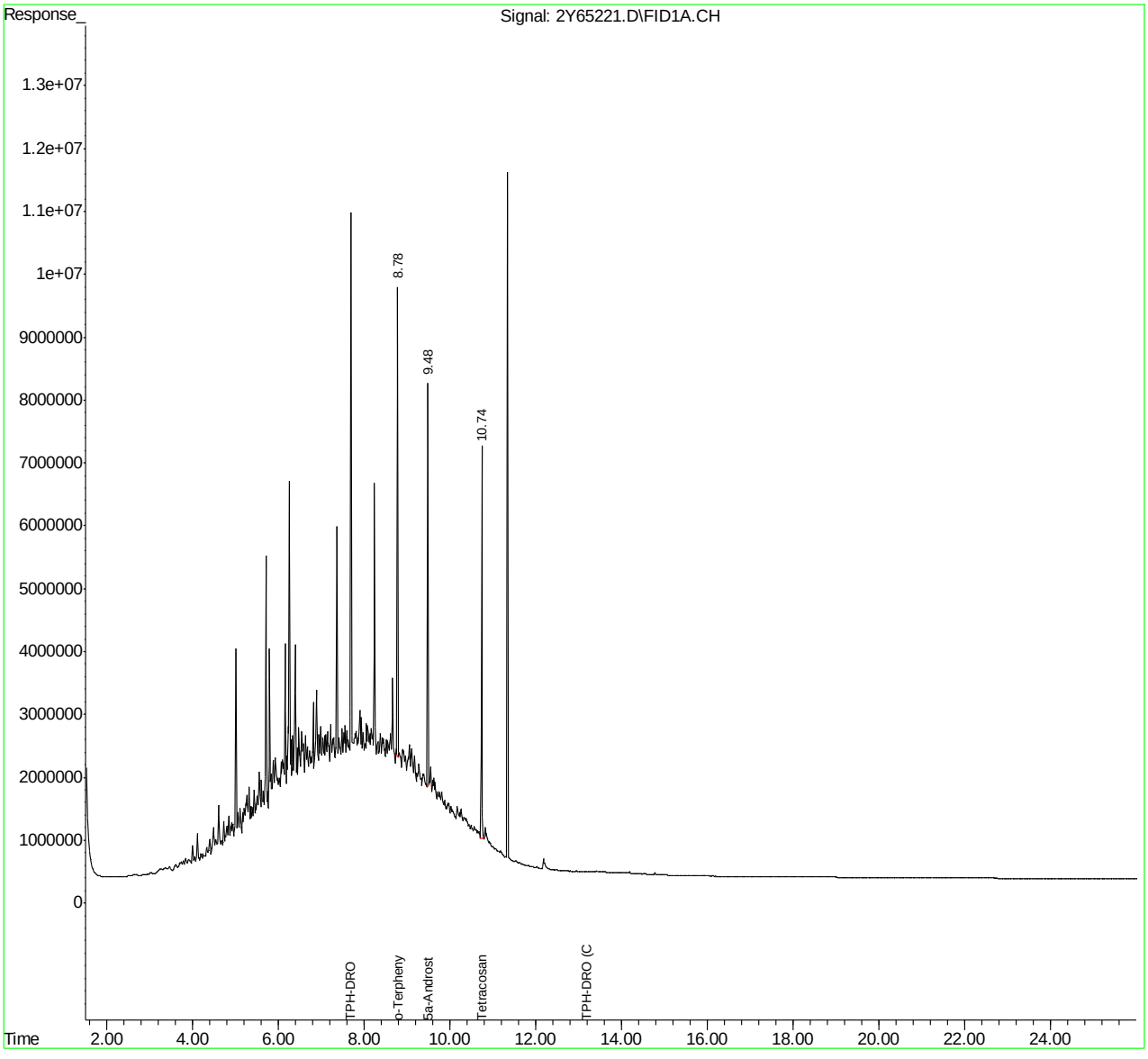
11

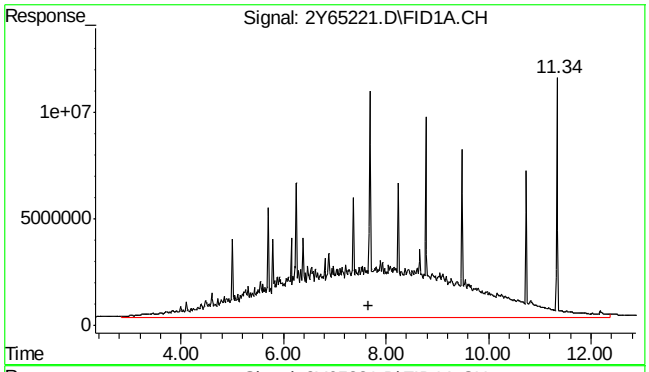
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65221.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 10:44 pm
Operator : jinnym
Sample : jb79217-7
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:45:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

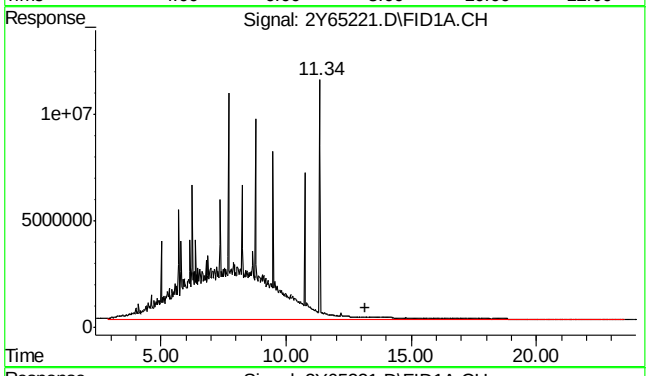
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





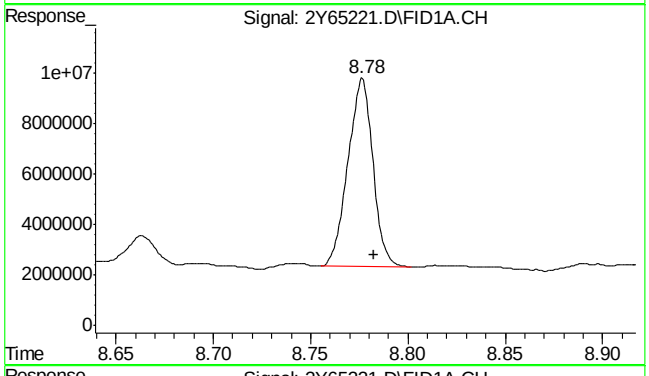
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 6754589935
Conc: 3886.21 PPM m



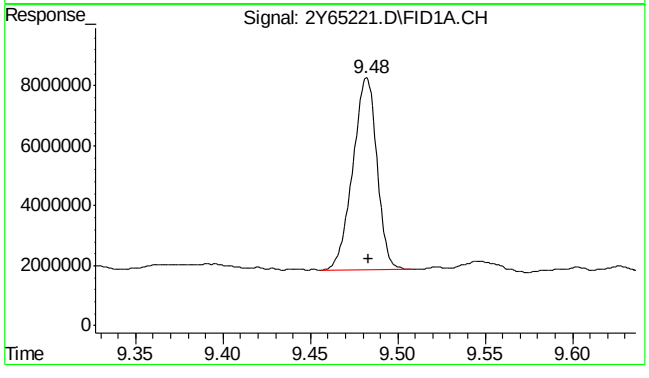
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 7131902814
Conc: 4103.30 PPM m



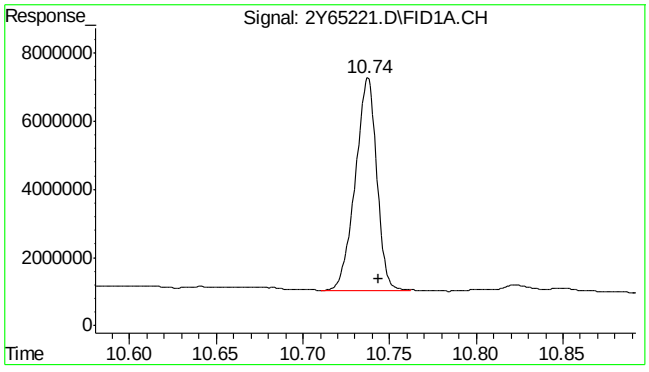
#9 o-Terphenyl

R.T.: 8.776 min
Delta R.T.: -0.006 min
Response: 66351328
Conc: 29.56 PPM m



#10 5a-Androstane

R.T.: 9.482 min
Delta R.T.: -0.001 min
Response: 61802090
Conc: 29.06 PPM m



#11 Tetracosane-d50

R.T.:	10.737 min
Delta R.T.:	-0.007 min
Response:	54015602
Conc:	31.00 PPM m

11.1.7

11

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 10/21/14 14:25

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\G2Y2509\
Data File : 2Y65222.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 11:19 pm
Operator : jinnym
Sample : jb79217-8
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 15:03:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	8.77	42854225	19.092	PPM	m
Spiked Amount 50.000		Recovery =	38.18%		
10) S 5a-Androstane	9.48	35201499	16.553	PPM	m
Spiked Amount 50.000		Recovery =	33.11%		
11) S Tetracosane-d50	10.74	29315229	16.825	PPM	m
Spiked Amount 50.000		Recovery =	33.65%		
Target Compounds					
1) H TPH-DRO	7.67	6139205589	3532.156	PPM	
3) H TPH-DRO (C10-C44)	13.18	6493214939	3735.833	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.8

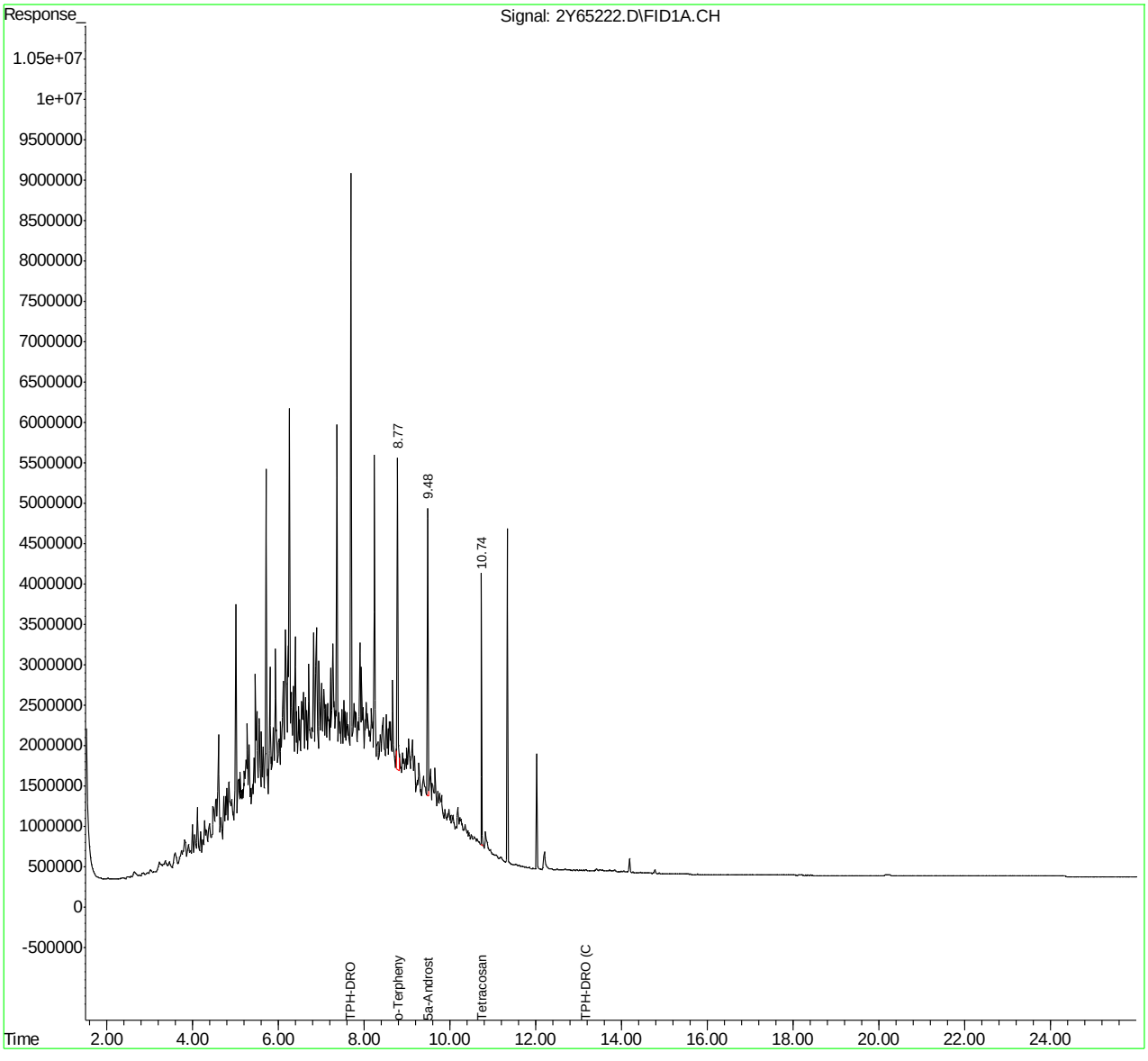
11

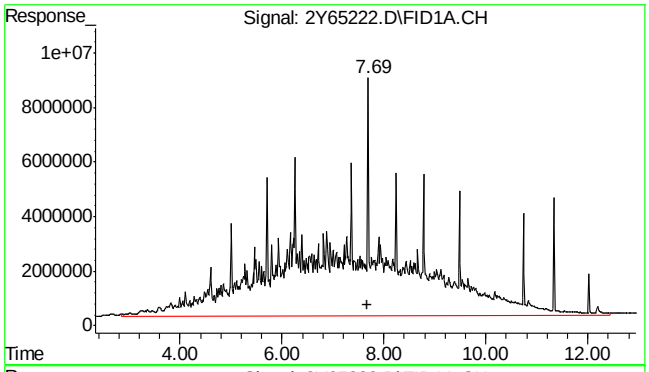
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\G2Y2509\
Data File : 2Y65222.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 11:19 pm
Operator : jinnym
Sample : jb79217-8
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 15:03:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

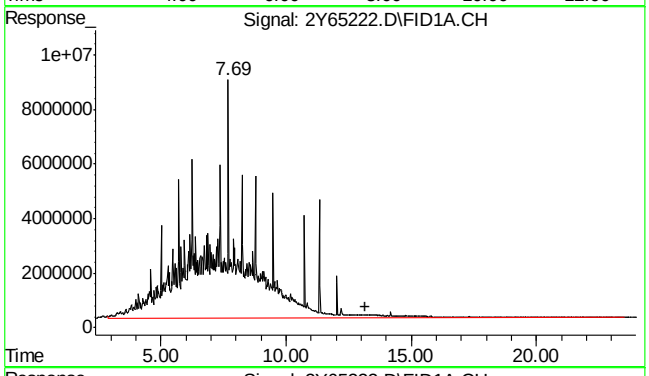
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





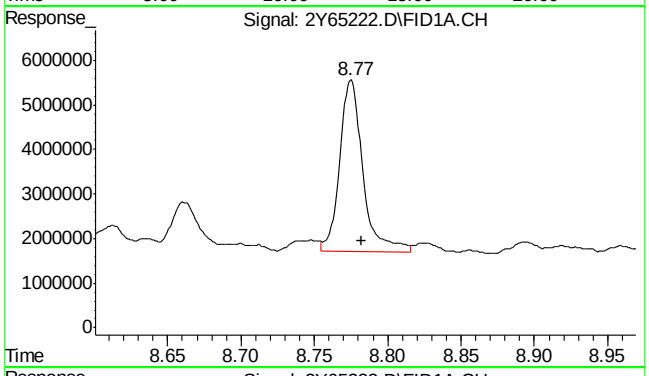
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 6139205589
Conc: 3532.16 PPM m



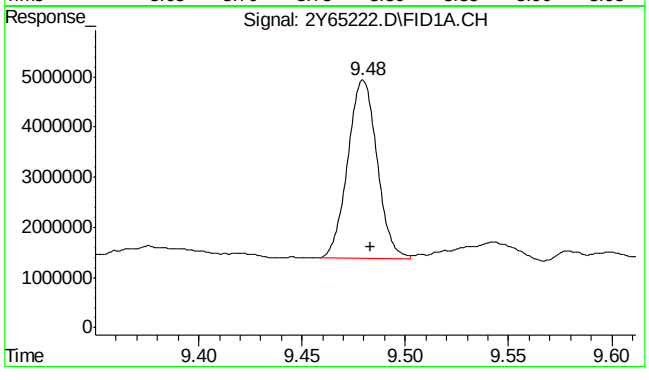
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 6493214939
Conc: 3735.83 PPM m



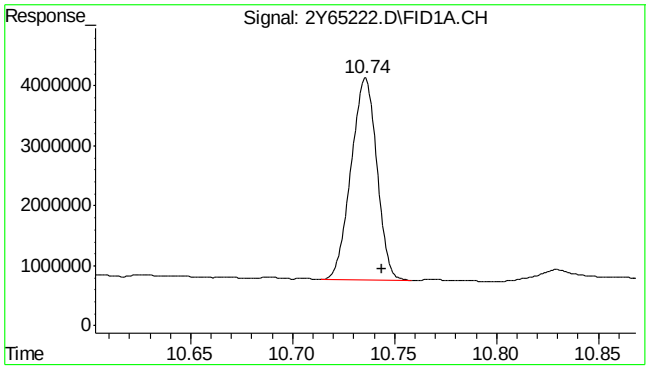
#9 o-Terphenyl

R.T.: 8.775 min
Delta R.T.: -0.008 min
Response: 42854225
Conc: 19.09 PPM m



#10 5a-Androstane

R.T.: 9.479 min
Delta R.T.: -0.004 min
Response: 35201499
Conc: 16.55 PPM m



#11 Tetracosane-d50

R.T.: 10.735 min
Delta R.T.: -0.009 min
Response: 29315229
Conc: 16.83 PPM m

11.1.8

11

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
10/21/14 14:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65223.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 11:54 pm
Operator : jinnym
Sample : jb79217-9
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:47:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
9) S o-Terphenyl	8.78	96775651	43.115 PPM	m
Spiked Amount 50.000		Recovery	= 86.23%	
10) S 5a-Androstane	9.49	77965177	36.662 PPM	m
Spiked Amount 50.000		Recovery	= 73.32%	
11) S Tetracosane-d50	10.74	66203604	37.997 PPM	m
Spiked Amount 50.000		Recovery	= 75.99%	
Target Compounds				
1) H TPH-DRO	7.67	12380172623	7122.859 PPM	
3) H TPH-DRO (C10-C44)	13.18	13577319419	7811.631 PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.9

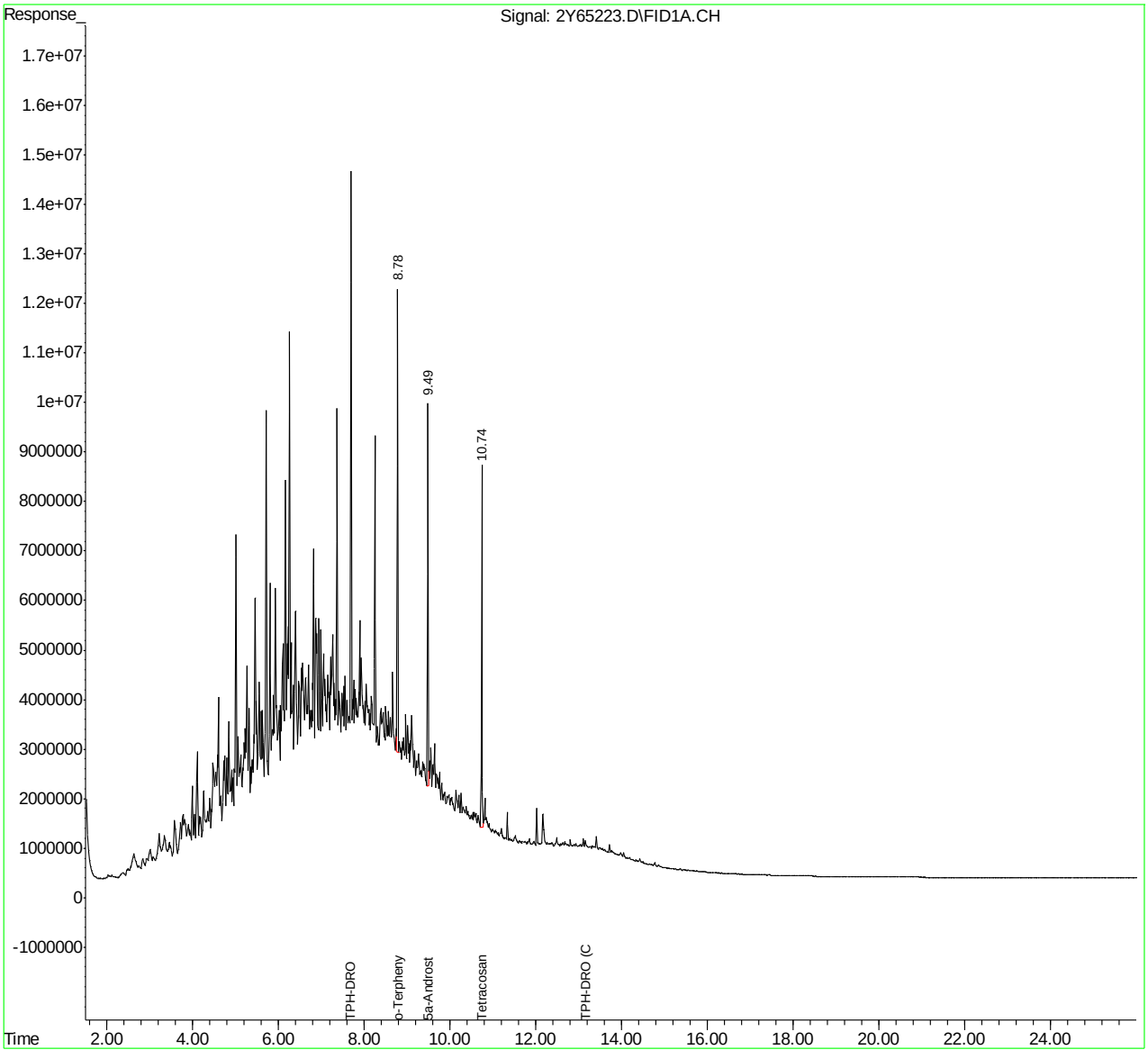
11

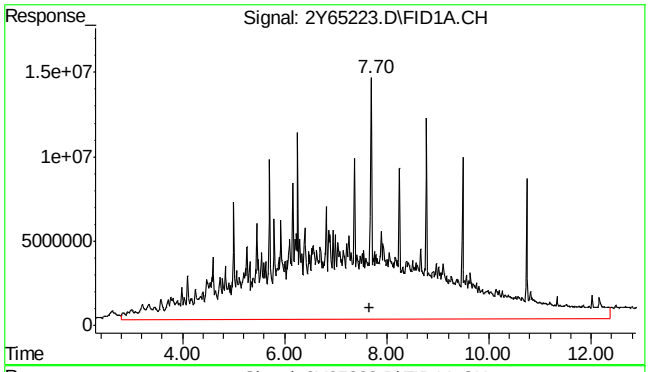
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65223.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 11:54 pm
Operator : jinnym
Sample : jb79217-9
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:47:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

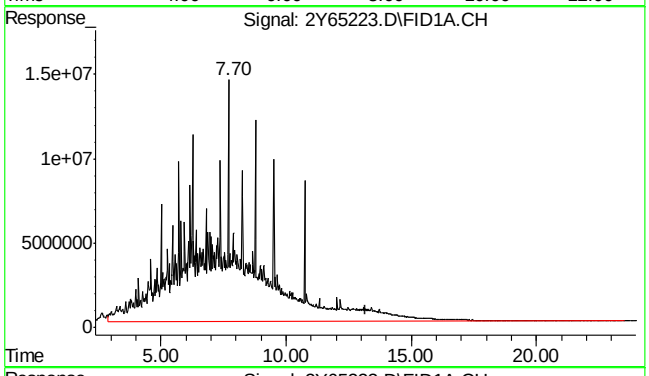
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





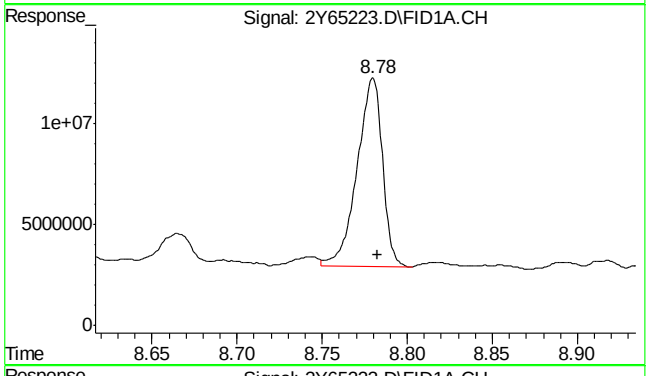
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 12380172623
Conc: 7122.86 PPM m



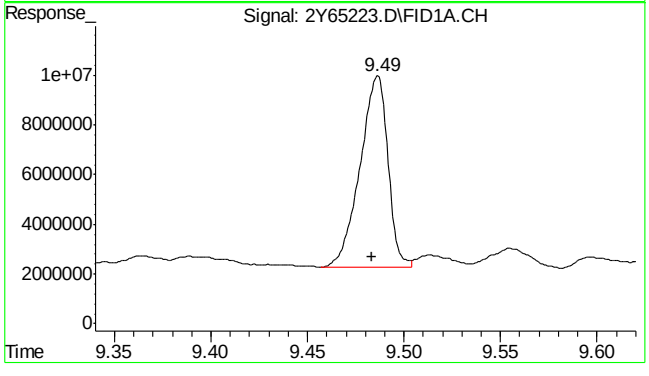
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 13577319419
Conc: 7811.63 PPM m



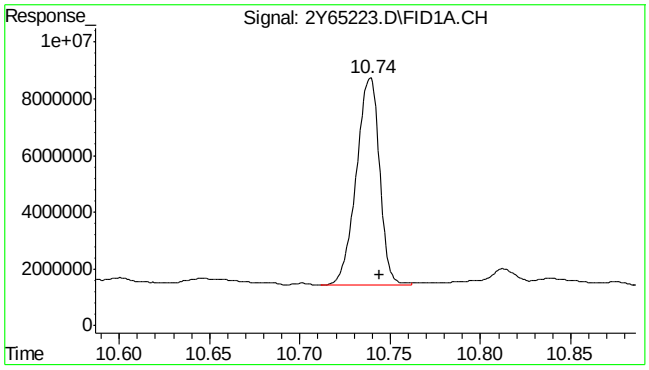
#9 o-Terphenyl

R.T.: 8.780 min
Delta R.T.: -0.003 min
Response: 96775651
Conc: 43.12 PPM m



#10 5a-Androstane

R.T.: 9.486 min
Delta R.T.: 0.003 min
Response: 77965177
Conc: 36.66 PPM m



#11 Tetracosane-d50

R.T.: 10.739 min
Delta R.T.: -0.005 min
Response: 66203604
Conc: 38.00 PPM m

11.1.9

11

Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
10/21/14 14:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65224.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2014 12:29 am
Operator : jinnym
Sample : jb79217-10
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:48:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	8.78	46742899	20.825	PPM	m
Spiked Amount 50.000		Recovery = 41.65%			
10) S 5a-Androstane	9.49	353342542	166.154	PPM	m
Spiked Amount 50.000		Recovery = 332.31%			
11) S Tetracosane-d50	10.76	49711720	28.532	PPM	m
Spiked Amount 50.000		Recovery = 57.06%			
Target Compounds					
1) H TPH-DRO	7.67	7.61843e+011	438321.798	PPM	
3) H TPH-DRO (C10-C44)	13.18	7.63226e+011	439117.367	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.10

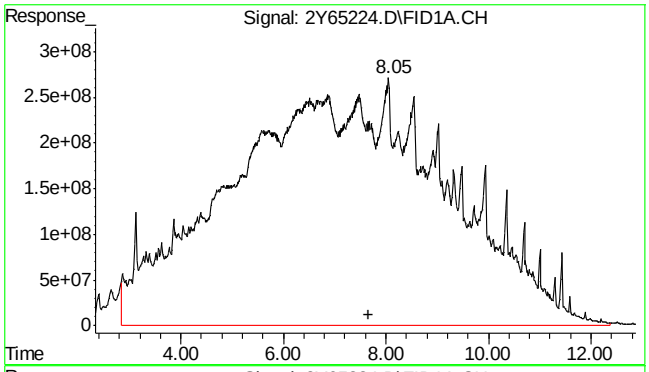
11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65224.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2014 12:29 am
Operator : jinnym
Sample : jb79217-10
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 18 Sample Multiplier: 1

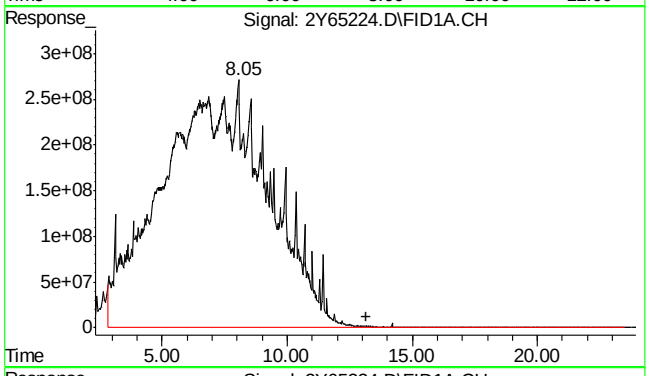
Integration File: events.e
Quant Time: Oct 17 14:48:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



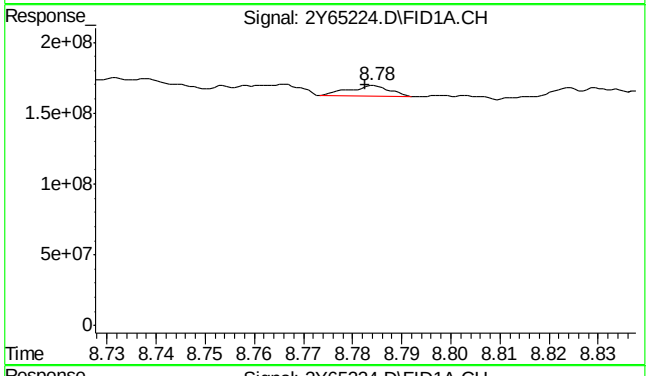
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 7.61843e+011
Conc: 438321.80 PPM m



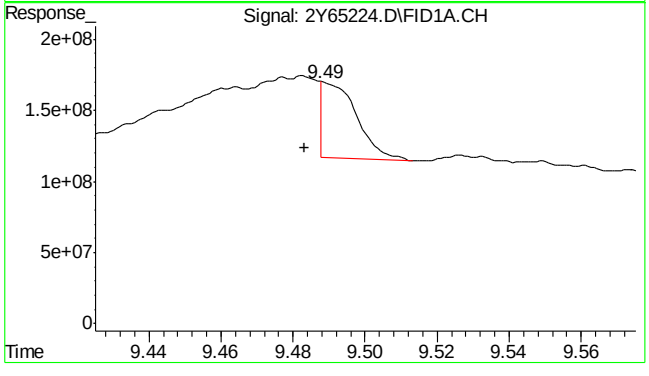
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 7.63226e+011
Conc: 439117.37 PPM m



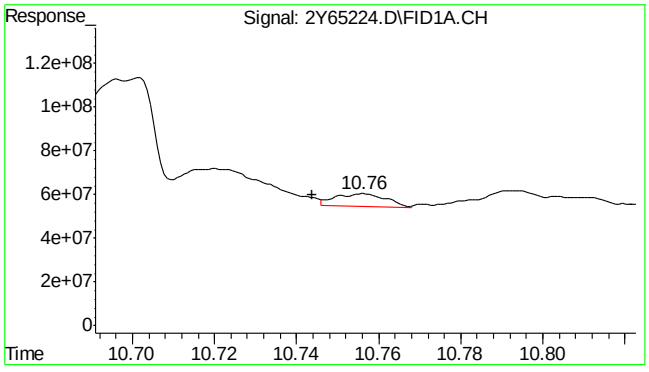
#9 o-Terphenyl

R.T.: 8.784 min
Delta R.T.: 0.001 min
Response: 46742899
Conc: 20.82 PPM m



#10 5a-Androstane

R.T.: 9.488 min
Delta R.T.: 0.005 min
Response: 353342542
Conc: 166.15 PPM m



#11 Tetracosane-d50

R.T.: 10.756 min
Delta R.T.: 0.012 min
Response: 49711720
Conc: 28.53 PPM m

11.1.10

11

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 10/21/14 14:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2510\
Data File : 2Y65257.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2014 10:22 pm
Operator : jinnym
Sample : jb79217-10
Misc : op78850,g2y2510,300,,,1,20
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 20 11:37:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	8.79	32463168	14.463	PPM	m
Spiked Amount 50.000		Recovery =	28.93%		
10) S 5a-Androstane	9.50	15947335	7.499	PPM	m
Spiked Amount 50.000		Recovery =	15.00%		
11) S Tetracosane-d50	10.73	9573506	5.495	PPM	m
Spiked Amount 50.000		Recovery =	10.99%		
Target Compounds					
1) H TPH-DRO	7.67	35809321983	20602.682	PPM	
3) H TPH-DRO (C10-C44)	13.18	36056768722	20745.049	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

11.1.11

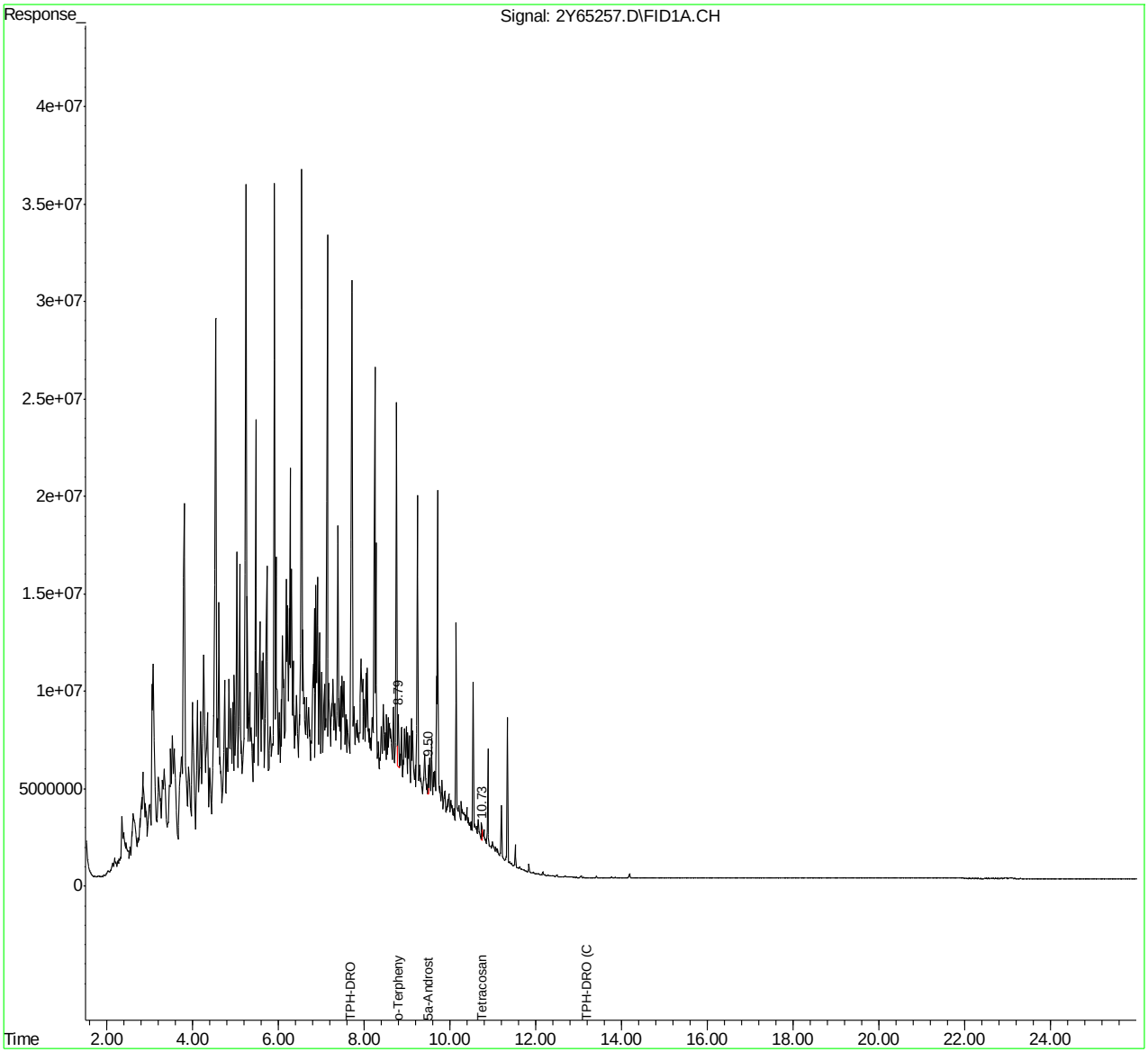
11

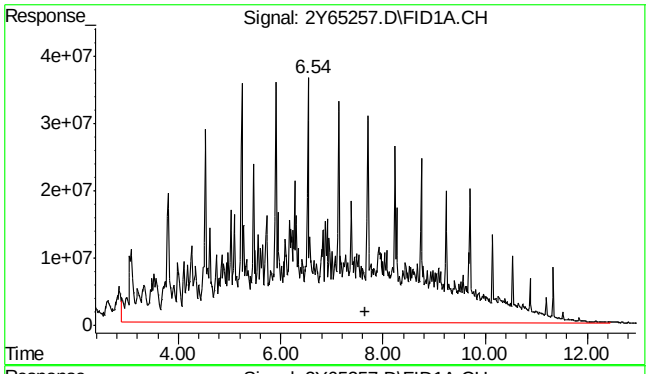
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2510\
Data File : 2Y65257.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2014 10:22 pm
Operator : jinnym
Sample : jb79217-10
Misc : op78850,g2y2510,300,,,1,20
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 20 11:37:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

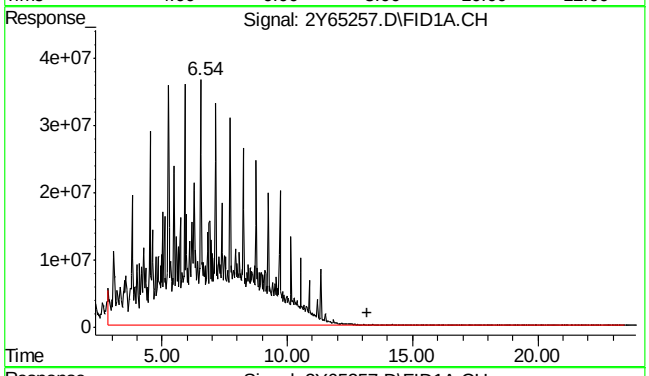
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





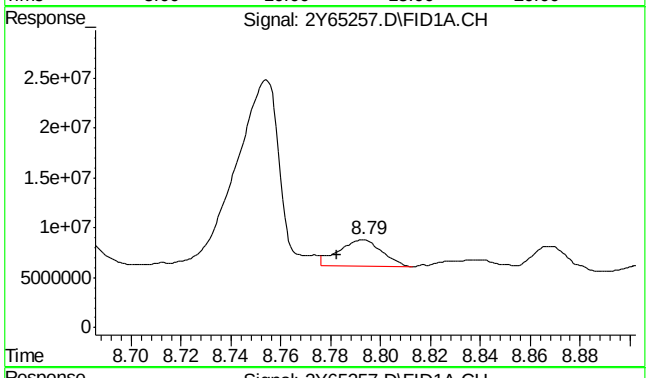
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 35809321983
Conc: 20602.68 PPM m



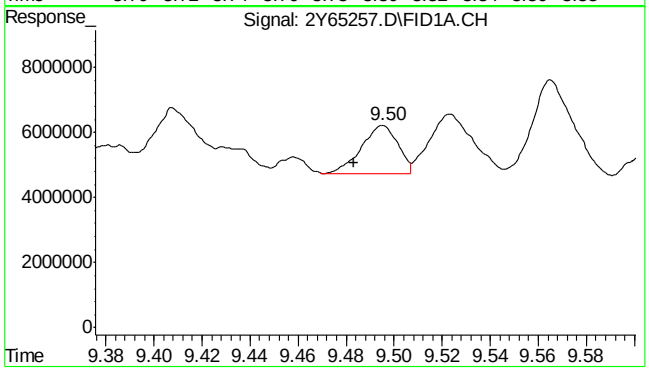
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 36056768722
Conc: 20745.05 PPM m



#9 o-Terphenyl

R.T.: 8.793 min
Delta R.T.: 0.011 min
Response: 32463168
Conc: 14.46 PPM m

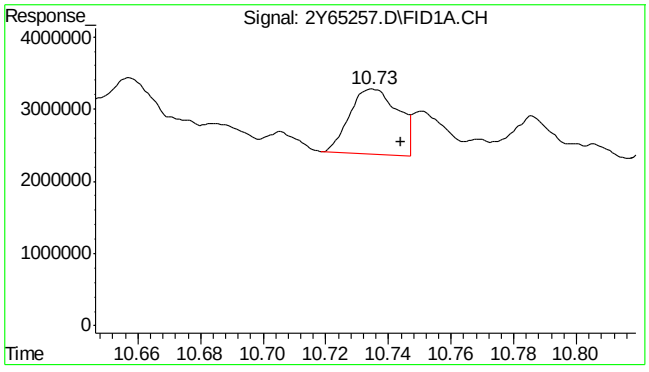


#10 5a-Androstane

R.T.: 9.495 min
Delta R.T.: 0.012 min
Response: 15947335
Conc: 7.50 PPM m

11.1.11

11



#11 Tetracosane-d50

R.T.: 10.735 min
Delta R.T.: -0.009 min
Response: 9573506
Conc: 5.49 PPM m

11.1.11

11

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
10/21/14 14:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65225.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2014 1:03 am
Operator : jinnym
Sample : jb79217-11
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:50:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
9) S o-Terphenyl	8.78	88792936	39.559	PPM	m
Spiked Amount 50.000		Recovery =	79.12%		
10) S 5a-Androstane	9.48	81559352	38.352	PPM	m
Spiked Amount 50.000		Recovery =	76.70%		
11) S Tetracosane-d50	10.74	72343898	41.521	PPM	m
Spiked Amount 50.000		Recovery =	83.04%		
Target Compounds					
1) H TPH-DRO	7.67	6089750004	3503.702	PPM	
3) H TPH-DRO (C10-C44)	13.18	6359115235	3658.679	PPM	

(f)=RT Delta > 1/2 Window (m)=manual int.

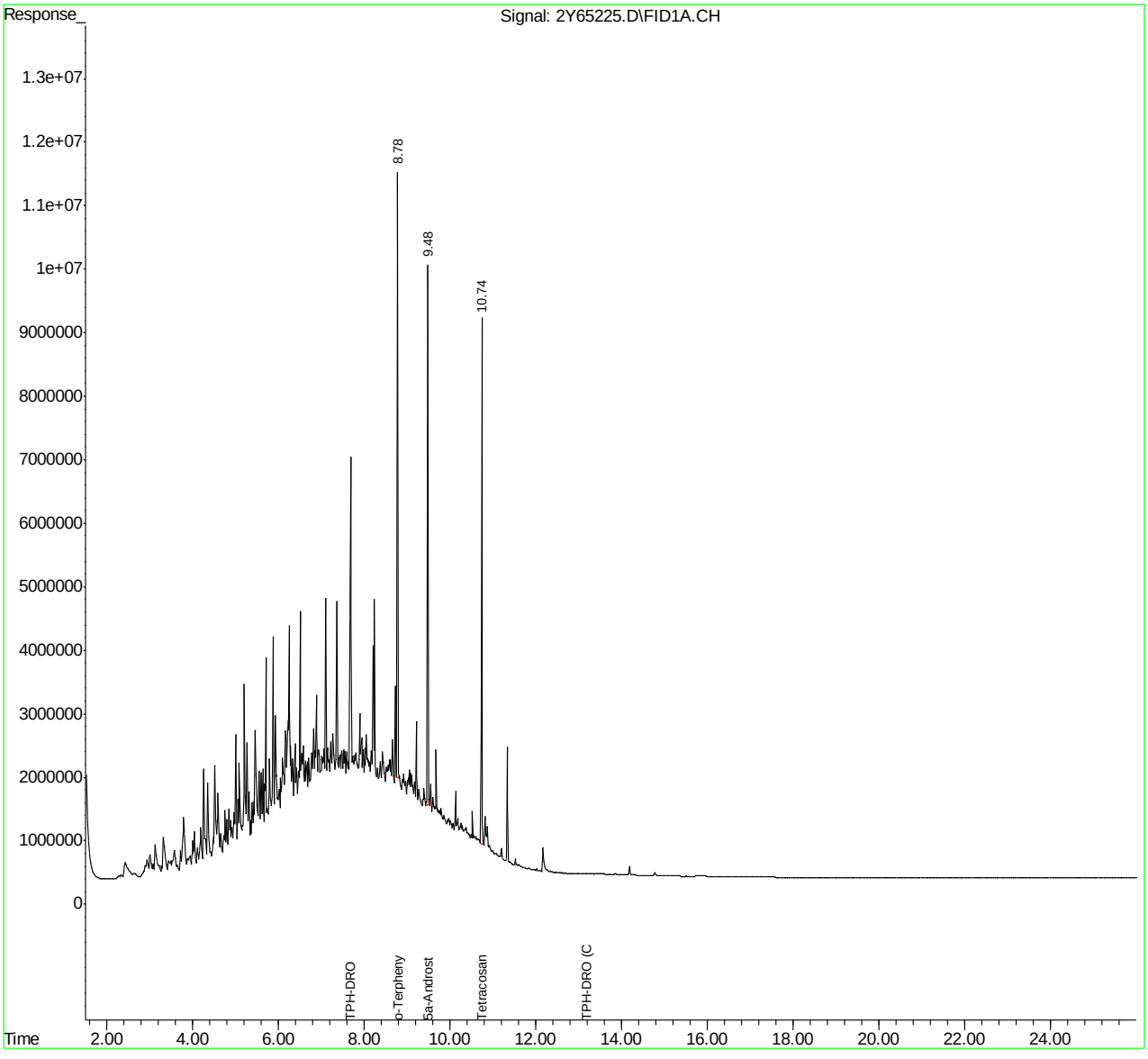
11.1.12
11

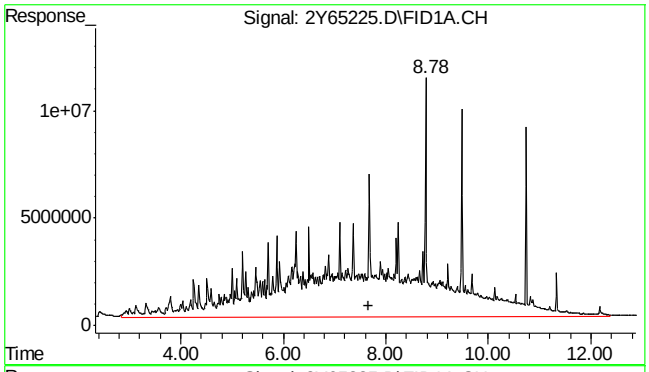
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\g2y2509\
Data File : 2Y65225.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2014 1:03 am
Operator : jinnym
Sample : jb79217-11
Misc : op78850,g2y2509,300,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:50:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

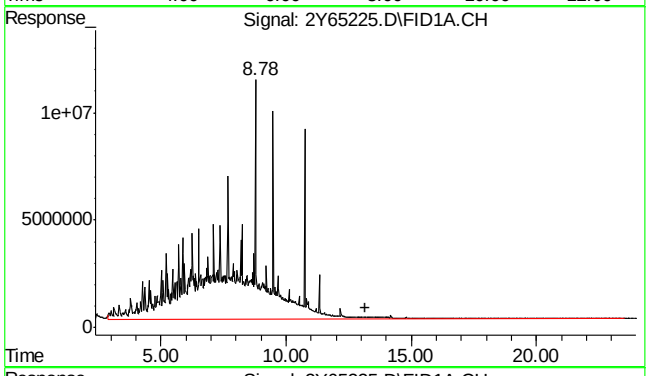
Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um





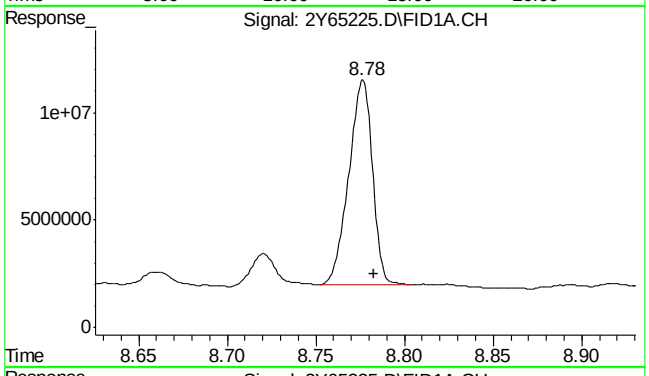
#1 TPH-DRO

R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 6089750004
Conc: 3503.70 PPM m



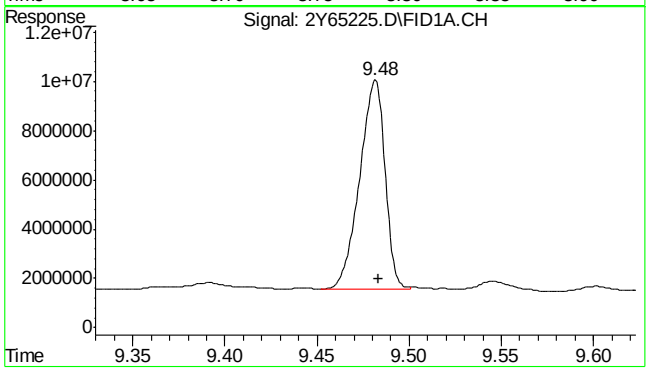
#3 TPH-DRO (C10-C44)

R.T.: 13.180 min
Delta R.T.: 0.000 min
Response: 6359115235
Conc: 3658.68 PPM m



#9 o-Terphenyl

R.T.: 8.776 min
Delta R.T.: -0.006 min
Response: 88792936
Conc: 39.56 PPM m

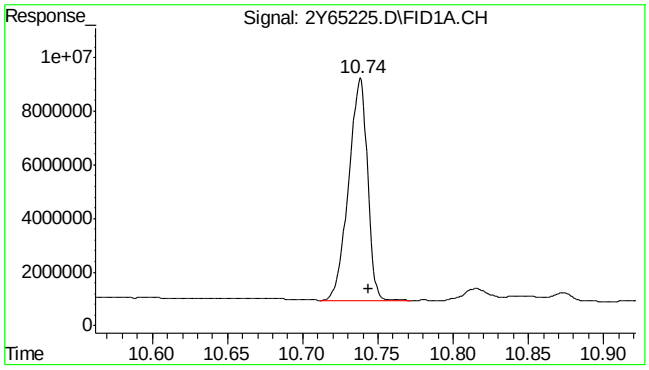


#10 5a-Androstane

R.T.: 9.481 min
Delta R.T.: -0.002 min
Response: 81559352
Conc: 38.35 PPM m

11.1.12

11



#11 Tetracosane-d50

R.T.: 10.738 min
Delta R.T.: -0.006 min
Response: 72343898
Conc: 41.52 PPM m

11.1.12

11

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\G2Y2509\
Data File : 2Y65208.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 2:26 pm
Operator : jinnym
Sample : op78850-mb1
Misc : op78850,g2y2509,250,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:33:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S o-Terphenyl	8.78	53465956	23.820 PPM
Spiked Amount 50.000		Recovery =	47.64%
10) S 5a-Androstane	9.48	56429223	26.535 PPM
Spiked Amount 50.000		Recovery =	53.07%
11) S Tetracosane-d50	10.74	49268362	28.277 PPM
Spiked Amount 50.000		Recovery =	56.55%
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

11.2.1

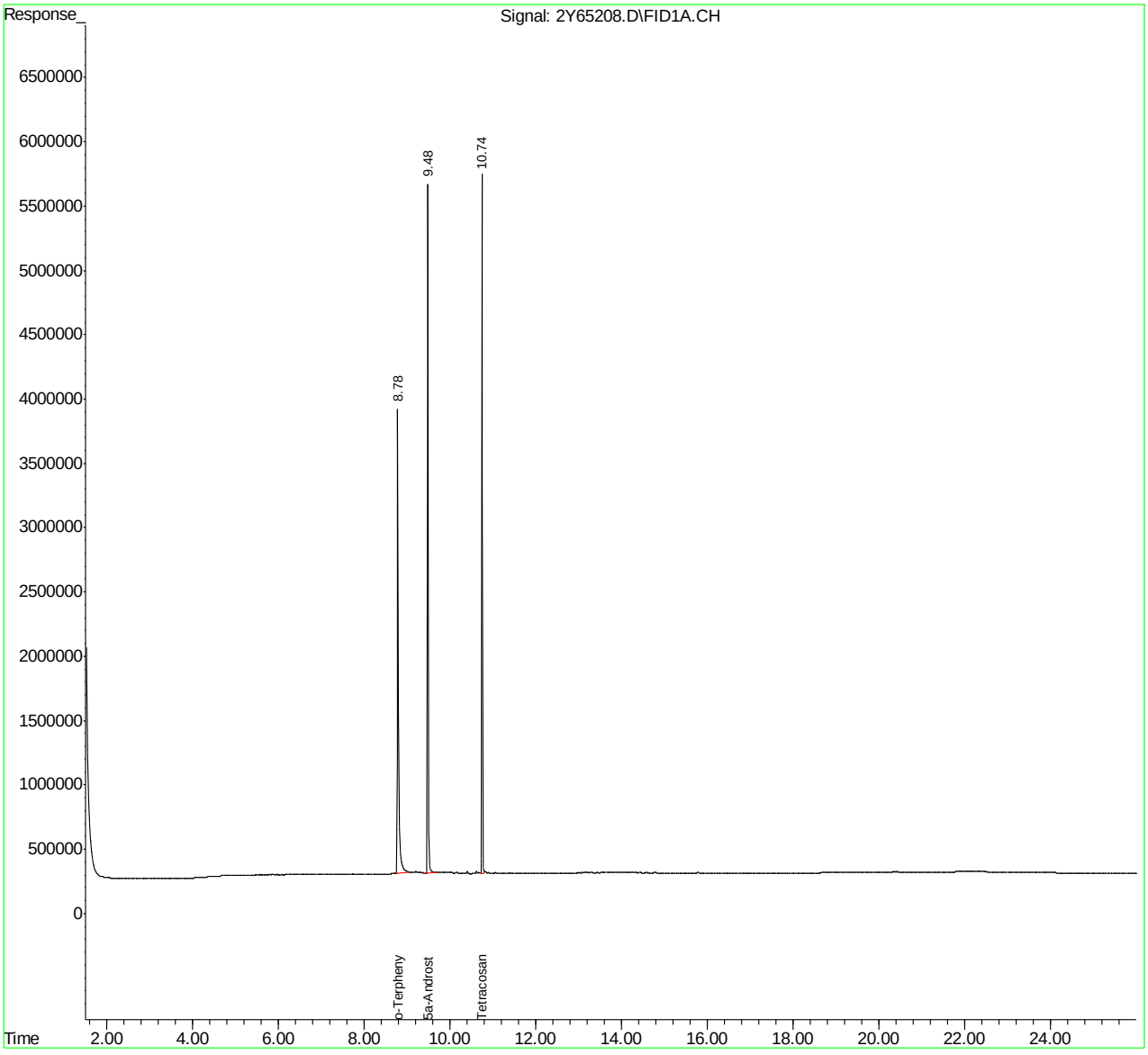
11

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\G2Y2509\
Data File : 2Y65208.D
Signal(s) : FID1A.CH
Acq On : 16 Oct 2014 2:26 pm
Operator : jinnym
Sample : op78850-mb1
Misc : op78850,g2y2509,250,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 17 14:33:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\DRO2Y2489.M
Quant Title :
QLast Update : Fri Oct 17 14:33:05 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1UL
Signal Phase : RTX-1
Signal Info : 30mX0.25mmX0.25um



DRO2Y2489.M Fri Oct 17 14:33:25 2014 RPT1 Page: 2