

July 31, 2014

Geotechnical
Environmental
Water Resources
Ecological

Mr. Steve Mullin
Lead Analyst
89 East Avenue
Rochester, New York 14649

Subject: Phase I Off-Site Property Investigation Summary
RG&E West Station Plant Area Former Manufactured Gas Plant (MGP) Site
Site No. V00593-8
Index No. B-0535-98-07

Dear Mr. Mullin:

This letter report summarizes the investigation activities and analytical results of the Phase I investigation performed at the adjacent off-site property (aka 96 Falls Street) north of the Rochester Gas and Electric (RG&E) West Station Plant Area Former Manufactured Gas Plant (MGP) Site. The investigation was conducted at the request of the New York State Department of Environmental Conservation (NYSDEC or Department) in e-mail correspondence to RG&E dated January 11, 2013. The investigation was conducted in accordance with a NYSDEC-approved Scope of Work dated April 1, 2013.

1.0 BACKGROUND

NYSDEC requested an investigation of the adjacent property based on the field observations by Department staff that noted an overburden groundwater seep exhibiting a “coal tar-like” odor originating from a joint in the concrete retaining wall on the river side of the adjacent property approximately 53 feet north of the RG&E property boundary. At the request of RG&E, GEI Consultants, Inc. P.C (GEI) prepared a Scope of Work for the adjacent property investigation. The Scope of Work included site background information (i.e, described historical industrial property usage, summarized documented evidence of historical petroleum bulk storage and petroleum solvent usage) and described a phased investigative approach of the adjacent property. After Department approval of the work scope, an agreement for access to the adjacent property was prepared in May 2013 and executed by involved parties in January 2014. In agreement with the NYSDEC, Phase I investigation activities described in the Scope of Work were scheduled after winter snow melt and spring precipitation events which would allow river levels to fall sufficiently for safe access to the river-side soils along river’s edge near the seep area.

2.0 PHASE I INVESTIGATION FIELD ACTIVITIES

The investigation was performed by GEI on May 27, 2014. Phase I investigation activities included characterization of the quality of seep water discharging from the base of the

retaining wall and quality of soil immediately below the seep at the location shown on Figure 1. The rate of seepage was estimated to be 250 mL per minute. A water sample was collected from the seep immediately adjacent to the concrete retaining wall on the River side of the adjacent property. Sample bottles were direct-filled with seep water and the water quality was noted to be clear. A slight naphthalene-type odor in the general area of the seep was noted during sampling. No NAPL or sheens were noted on water samples collected from the seep.

In accordance with the work plan, a groundwater sample was collected from monitoring well GMX-MW-26S located on RG&E West Station property closest to the seep location for water quality comparison to the seep water. The groundwater sample was collected using low flow sampling methods described in the NYSDEC- approved Remedial Investigation Work Plan (RIWP, 2008). Field measured parameters including: pH, conductivity, oxidation-reduction potential (ORP), temperature, dissolved oxygen and turbidity were recorded on the field sampling form during purging and sampling. A NAPL assessment was performed on GMX-MW-26S prior to purging using a weighted tape. No NAPL was found to be present at the base of GMX-MW-26S. Purge water associated with sampling was found to be clear and absent of sheens. Purge water and disposable sampling equipment was containerized in appropriately labeled containers and stored on-Site for proper disposal by RG&E.

The seep and groundwater samples were submitted for laboratory analysis for:

- TCL VOCs (EPA Method 8260)
- TCL SVOCs (EPA Method 8270)
- TAL Metals (EPA Method 6010)
- Total Cyanide (EPA Method 9012A)
- Total Alkalinity (EPA Method 310.2)
- Sulfate (EPA Method 9038)
- Chloride (EPA Method 9251)
- Total Dissolved Solids (EPA Method SM2540-C)
- Nitrate (EPA Method 353.2)

A surface and subsurface soil sample was collected from the seep area near the foot of the retaining wall on the adjacent property. The surface soil sample was collected from the upper three-inches (0 - 3") of soil directly below the seep origin and a second soil sample was collected from a depth of 12-14" below ground surface. The samples were collected using dedicated stainless steel sampling equipment and an Encore® sampler for samples requiring VOC analysis. The soil samples were collected in accordance with procedures described in the RIWP (2008). The samples were analyzed for the following:

- VOCs (EPA Method 5035A)
- SVOCs (EPA Method 8270)
- TAL Metals (EPA Method 6010)
- Total Cyanide (EPA Method 9012A)
- PCBs (EPA Method 8082)

The water and soil samples were delivered on the same day (May 27, 2014) to Test America,

Inc. located in Amherst, New York under chain of custody procedures.

In addition to the above-described analyses, a representative volume from each groundwater and soil sample was provided for chemical analysis to Acutest Laboratories in Watertown, Massachusetts and forensic data interpretation by Meta Environmental, Inc. (META). The forensic analyses included the following:

- MAH/PAH compounds (EPA Method 8100)
- Extended PAH profiles (EPA Method 8270 Mod)

3.0 PHASE I INVESTIGATION RESULTS

The laboratory analytical data package provided by Test America for soil, site groundwater (GMX-MW-26S), and seep water samples is included in Attachment A. A data usability review of the laboratory data was performed and described in Attachment B. Data were found to be usable as qualified by the laboratory. A discussion of analytical results for samples submitted to Test America is provided below.

Seep-Area Soil Analytical Results

A summary of analytical data for surface and subsurface soils is provided in Table 1 and described below.

VOCs

TCL VOCs were not detected in the surface or subsurface soil sample collected from the seep area.

SVOCs

While several individual polycyclic aromatic hydrocarbon compounds (PAHs) were detected at low concentrations (part per billion levels), TCL SVOCs were not detected above constituent concentrations listed in 6NYCRR Part 375 Soil SCOs for Unrestricted Use. Estimated laboratory reported concentration levels in the surface and subsurface soil sample were similar.

PCBs

PCBs were not detected in the soil samples.

Inorganic Constituents

Laboratory reported concentrations for detected inorganic compounds for the surface and subsurface soil sample analyzed were similar. The following inorganic constituents were detected at concentrations above 6NYCRR Part 375 Soil SCOs for Unrestricted Use.

- Lead in samples SEEP-1(0-3) at 103 mg/kg and SEEP-1(12-14) at 124 mg/kg as compared to an unrestricted SCO of 63 mg/kg.
- Zinc in sample SEEP-1(0-3) at 121 mg/kg compared to an unrestricted SCO of 109 mg/kg.

Constituent concentrations are typical of urban environments and well below 6NYCRR Part 375 Soil SCOs for Commercial Use (shown on Table 1) and Residential Use (Lead – 400 mg/kg and Zinc – 2200 mg/kg).

Seep Water and Shallow Groundwater Analytical Results

A summary of analytical data for site groundwater (GMX-MW-26S) and seep water (SEEP-1) is provided in Table 2 and described below.

VOCs

TCL VOCs were not detected in the site groundwater sample GMX-MW-26S at concentrations above standards and guidance values in TOGS 1.1.1. Benzene (5.2 ug/L) and total xylenes (11 ug/L) were detected in SEEP-1 at concentrations above TOGS 1.1.1.

SVOCs

Low concentrations (part per billion levels) of several PAHs were detected in SEEP-1. Naphthalene (17 ug/L) was the only constituent detected above values listed in TOGS 1.1.1. No constituents were detected above levels in TOGS 1.1.1 in the groundwater sample collected from well MW-26S.

Inorganic Constituents

Inorganic constituents detected at concentrations above levels in TOGS 1.1.1 include the following:

- iron
- manganese
- sodium
- chloride
- sulfate
- total dissolved solids (TDS)

The constituents detected were present at similar concentrations in both the seep and groundwater sample. The detected concentrations are consistent with groundwater occurring in soil fill and reflect impact from road salt application (i.e., elevated sodium, chloride and TDS levels). Toxic metals (RCRA 8 metals) were either not detected or detected at low concentrations (below TOGS 1.1.1).

4.0 FORENSIC DATA INTERPRETATION

Environmental forensic data interpretation was prepared by META. The META report is provided in Attachment C. The forensic report concluded the following:

Groundwater and Seep Water – The groundwater sample collected from on-site well GMX-MW-26S contained no detectable PAHs or GC/FID chromatogram pattern known to be associated with MGP sites. The SEEP-1 water sample contained very low concentrations of o-xylene, benzo(b)thiophene, acenaphthene, C2-benzenes, C3-benzenes, and C4-benzenes. No detectable pattern was evident on the GC/FID chromatogram. The concentrations were too low to generate interpretable patterns.

Seep Area Soil – Both soil samples (surface and subsurface) contained a mixture of low concentration PAHs derived from pyrogenic, petrogenic, and decaying vegetative material. The fluoranthene/pyrene (Fl/Py) ratios in SEEP-1(0-3) and SEEP-1(12-14) were 1.06 and 1.12, respectively. These ratios are low compared to coal tar impacted soil collected from the West Station site which typically produced Fl/Py ratios greater than 1.4 (see Appendix I of the Remedial Investigation Report for the West Station Plant Area Site). The META forensic report concluded that the PAHs present in both the surface and subsurface seep area soil samples were typical of urban background.

5.0 CONCLUSION

The Phase I investigation sampling results indicate water seeping from the joint in the concrete retaining wall on the river side of the adjacent property contained very low concentrations of organic and inorganic constituents. Soils immediately below the seep area contained low concentrations of PAHs consistent with urban background. As shown in the historic photographs depicting site conditions during the 1940s and 1950s included in the Scope of Work dated April 1, 2013, historic activities at the garbage reduction facility extended beyond the retaining wall likely affecting the analytical detections. No evidence of impact from the West Station site was inferred from the seep water and soil samples. Based upon these findings, GEI recommends no further investigation of the adjacent property.

We thank you for the opportunity to provide these services to RG&E. If you have questions, please contact me at (716) 204-7156.

Sincerely yours,
GEI CONSULTANTS, INC., P.C.



Richard H. Frappa, P.G.
Senior Consultant

Attachments:

Figure 1 – Sampling Location Map

Table 1 – Seep Area Surface and Subsurface Soil Analytical Summary

Table 2 – Seep Water and Site Groundwater Analytical Summary

Attachment A – Test America Laboratory Data Package (Level 2 package included)

Attachment B – Data Usability Report

Attachment C – META Environmental Forensic Report

Tables

Table 1
Surface and Subsurface Soil Analytical Summary
Former West Station Plant Area MGP Site - Adjacent Property Investigation
Rochester, New York

Sample ID and Depth: Sample Date:	Part 375 Soil Cleanup Objectives			SEEP-1 0-3"	SEEP-1 12-14"
	Commercial	Industrial	Unrestricted	05/27/2014	05/27/2014
Volatile Organic Compound (mg/kg)					
1,1,1-Trichloroethane	500	1000	0.68	<0.0061 U	<0.008 U
1,1,2,2-Tetrachloroethane	NA	NA	NA	<0.0061 U	<0.008 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	<0.0061 U	<0.008 U
1,1,2-Trichloroethane	NA	NA	NA	<0.0061 U	<0.008 U
1,1-Dichloroethane	240	480	0.27	<0.0061 U	<0.008 U
1,1-Dichloroethene	500	1000	0.33	<0.0061 U	<0.008 U
1,2,4-Trichlorobenzene	NA	NA	NA	<0.0061 U	<0.008 U
1,2-Dibromo-3-Chloropropane	NA	NA	NA	<0.0061 U	<0.008 U
1,2-Dibromoethane (Ethylene Dibromide)	NA	NA	NA	<0.0061 U	<0.008 U
1,2-Dichlorobenzene	NA	NA	1.1	<0.0061 U	<0.008 U
1,2-Dichloroethane	30	60	0.02	<0.0061 U	<0.008 U
1,2-Dichloropropane	NA	NA	NA	<0.0061 U	<0.008 U
1,3-Dichlorobenzene	NA	NA	2.4	<0.0061 U	<0.008 U
1,4-Dichlorobenzene	NA	NA	1.8	<0.0061 U	<0.008 U
2-Hexanone	NA	NA	NA	<0.03 U	<0.04 U
Acetone	500	1000	0.05	<0.03 U	<0.04 U
Benzene	44	89	0.06	<0.0061 U	<0.008 U
Bromodichloromethane	NA	NA	NA	<0.0061 U	<0.008 U
Bromoform	NA	NA	NA	<0.0061 U	<0.008 U
Bromomethane	NA	NA	NA	<0.0061 U	<0.008 U
Carbon Disulfide	NA	NA	NA	<0.0061 U	<0.008 U
Carbon Tetrachloride	22	44	0.76	<0.0061 U	<0.008 U
Chlorobenzene	500	1000	1.1	<0.0061 U	<0.008 U
Chloroethane	NA	NA	NA	<0.0061 U	<0.008 U
Chloroform	350	700	0.37	<0.0061 U	<0.008 U
Chloromethane	NA	NA	NA	<0.0061 U	<0.008 U
Cis-1,2-Dichloroethylene	NA	NA	0.25	<0.0061 U	<0.008 U
Cis-1,3-Dichloropropene	NA	NA	NA	<0.0061 U	<0.008 U
Cyclohexane	NA	NA	NA	<0.0061 U	<0.008 U
Dibromochloromethane	NA	NA	NA	<0.0061 U	<0.008 U
Dichlorodifluoromethane	NA	NA	NA	<0.0061 U	<0.008 U
Ethylbenzene	390	780	1	<0.0061 U	<0.008 U
Isopropylbenzene (Cumene)	NA	NA	NA	<0.0061 U	<0.008 U
Methyl Acetate	NA	NA	NA	<0.0061 U	<0.008 U
Methyl Ethyl Ketone (2-Butanone)	500	1000	0.12	<0.03 U	<0.04 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NA	NA	NA	<0.03 U	<0.04 U
Methylcyclohexane	NA	NA	NA	<0.0061 U	<0.008 U
Methylene Chloride	500	1000	0.05	<0.0061 U	<0.008 U
Styrene	NA	NA	NA	<0.0061 U	<0.008 U
Tert-Butyl Methyl Ether	NA	NA	NA	<0.0061 U	<0.008 U
Tetrachloroethylene (PCE)	150	300	1.3	<0.0061 U	<0.008 U
Toluene	500	1000	0.7	<0.0061 U	<0.008 U
Trans-1,2-Dichloroethene	500	1000	0.19	<0.0061 U	<0.008 U
Trans-1,3-Dichloropropene	NA	NA	NA	<0.0061 U	<0.008 U
Trichloroethylene (TCE)	200	400	0.47	<0.0061 U	<0.008 U
Trichlorofluoromethane	NA	NA	NA	<0.0061 U	<0.008 U
Vinyl Chloride	13	27	0.02	<0.0061 U	<0.008 U
Xylenes, Total	500	1000	0.26	<0.012 U	<0.016 U

Notes:

BOLD = detection

mg/kg = milligrams per kilogram, which is equivalent to ppm or parts per million

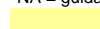
J = estimated value


U = not detected at or above the stated reporting limit

Detects reported to method detection limit; Non-detects reported to reporting limit.

⁽¹⁾Guidance Values from NYSDEC 6NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives (SCO)s: Unrestricted, Commercial, and Industrial Use, December 2006.

NA = guidance value does not exist

 = exceeds Part 375 Soil Cleanup Objectives, Commercial Use

 = exceeds Part 375 Soil Cleanup Objectives, Industrial Use


 = exceeds Part 375 Soil Cleanup Objectives, Unrestricted Use

Table 1
Surface and Subsurface Soil Analytical Summary
Former West Station Plant Area MGP Site - Adjacent Property Investigation
Rochester, New York

Sample ID and Depth: Sample Date:	Part 375 Soil Cleanup Objectives			SEEP-1 0-3"	SEEP-1 12-14"
	Commercial	Industrial	Unrestricted	05/27/2014	05/27/2014
Semi-Volatile Organic Compound (mg/kg)					
2,4,5-Trichlorophenol	NA	NA	NA	<1.1 U	<1.3 U
2,4,6-Trichlorophenol	NA	NA	NA	<1.1 U	<1.3 U
2,4-Dichlorophenol	NA	NA	NA	<1.1 U	<1.3 U
2,4-Dimethylphenol	NA	NA	NA	<1.1 U	<1.3 U
2,4-Dinitrophenol	NA	NA	NA	<2 U	<2.4 U
2,4-Dinitrotoluene	NA	NA	NA	<1.1 U	<1.3 U
2,6-Dinitrotoluene	NA	NA	NA	<1.1 U	<1.3 U
2-Chloronaphthalene	NA	NA	NA	<1.1 U	<1.3 U
2-Chlorophenol	NA	NA	NA	<1.1 U	<1.3 U
2-Methylnaphthalene	NA	NA	NA	<1.1 U	<1.3 U
2-Methylphenol (O-Cresol)	500	1000	0.33	<1.1 U	<1.3 U
2-Nitroaniline	NA	NA	NA	<2 U	<2.4 U
2-Nitrophenol	NA	NA	NA	<1.1 U	<1.3 U
3,3'-Dichlorobenzidine	NA	NA	NA	<1.1 U	<1.3 U
3-Nitroaniline	NA	NA	NA	<2 U	<2.4 U
4,6-Dinitro-2-Methylphenol	NA	NA	NA	<2 U	<2.4 U
4-Bromophenyl Phenyl Ether	NA	NA	NA	<1.1 U	<1.3 U
4-Chloro-3-Methylphenol	NA	NA	NA	<1.1 U	<1.3 U
4-Chloroaniline	NA	NA	NA	<1.1 U	<1.3 U
4-Chlorophenyl Phenyl Ether	NA	NA	NA	<1.1 U	<1.3 U
4-Methylphenol (P-Cresol)	500	1000	0.33	<2 U	<2.4 U
4-Nitroaniline	NA	NA	NA	<2 U	<2.4 U
4-Nitrophenol	NA	NA	NA	<2 U	<2.4 U
Acenaphthene	500	1000	20	<1.1 U	<1.3 U
Acenaphthylene	500	1000	100	<1.1 U	<1.3 U
Acetophenone	NA	NA	NA	<1.1 U	<1.3 U
Anthracene	500	1000	100	<1.1 U	<1.3 U
Atrazine	NA	NA	NA	<1.1 U	<1.3 U
Benzaldehyde	NA	NA	NA	<1.1 U	<1.3 U
Benzo(a)Anthracene	5.6	11	1	0.160 J	0.370 J
Benzo(a)Pyrene	1	1.1	1	0.140 J	0.440 J
Benzo(b)Fluoranthene	5.6	11	1	0.190 J	0.510 J
Benzo(g,h,i)Perylene	500	1000	100	0.160 J	0.330 J
Benzo(k)Fluoranthene	56	110	0.8	0.130 J	0.270 J
Benzyl Butyl Phthalate	NA	NA	NA	<1.1 U	0.620 J
Biphenyl (Diphenyl)	NA	NA	NA	<1.1 U	<1.3 U
Bis(2-Chloroethoxy) Methane	NA	NA	NA	<1.1 U	<1.3 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NA	NA	NA	<1.1 U	<1.3 U
Bis(2-Chloroisopropyl) Ether	NA	NA	NA	<1.1 U	<1.3 U
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	<1.1 U	<1.3 U
Caprolactam	NA	NA	NA	<1.1 U	<1.3 U
Carbazole	NA	NA	NA	<1.1 U	<1.3 U
Chrysene	56	110	1	0.140 J	0.440 J
Dibenz(A,H)Anthracene	0.56	1.1	0.33	<1.1 U	0.095 J
Dibenzofuran	NA	NA	7	<1.1 U	<1.3 U
Diethyl Phthalate	NA	NA	NA	<1.1 U	<1.3 U
Dimethyl Phthalate	NA	NA	NA	<1.1 U	<1.3 U
Di-n-Butyl Phthalate	NA	NA	NA	<1.1 U	<1.3 U
Di-n-Octylphthalate	NA	NA	NA	<1.1 U	<1.3 U
Fluoranthene	500	1000	100	0.220 J	0.530 J
Fluorene	500	1000	30	<1.1 U	<1.3 U
Hexachlorobenzene	NA	NA	NA	<1.1 U	<1.3 U

Notes:

BOLD = detection

mg/kg = milligrams per kilogram, which is equivalent to ppm or parts per million

J = estimated value

U = not detected at or above the stated reporting limit

Detects reported to method detection limit; Non-detects reported to reporting limit.

⁽¹⁾Guidance Values from NYSDEC 6NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives (SCO)s: Unrestricted, Commercial, and Industrial Use, December 2006.

NA = guidance value does not exist

 = exceeds Part 375 Soil Cleanup Objectives, Commercial Use

 = exceeds Part 375 Soil Cleanup Objectives, Industrial Use

 = exceeds Part 375 Soil Cleanup Objectives, Unrestricted Use

Table 1
Surface and Subsurface Soil Analytical Summary
Former West Station Plant Area MGP Site - Adjacent Property Investigation
Rochester, New York

Sample ID and Depth: Sample Date:	Part 375 Soil Cleanup Objectives			SEEP-1 0-3"	SEEP-1 12-14"
	Commercial	Industrial	Unrestricted	05/27/2014	05/27/2014
Semi-Volatile Organic Compound (mg/kg) continued					
Hexachlorobutadiene	NA	NA	NA	<1.1 U	<1.3
Hexachlorocyclopentadiene	NA	NA	NA	<1.1 U	<1.3
Hexachloroethane	NA	NA	NA	<1.1 U	<1.3
Indeno(1,2,3-C,D)Pyrene	11	11	0.5	0.110 J	0.270 J
Isophorone	NA	NA	NA	<1.1 U	<1.3
Naphthalene	500	1000	12	<1.1 U	<1.3
Nitrobenzene	NA	NA	NA	<1.1 U	<1.3
N-Nitrosodi-N-Propylamine	NA	NA	NA	<1.1 U	<1.3
N-Nitrosodiphenylamine	NA	NA	NA	<1.1 U	<1.3
Pentachlorophenol	6.7	55	0.8	<2 U	<2.4
Phenanthrene	500	1000	100	0.089 J	0.200 J
Phenol	500	1000	0.33	<1.1 U	<1.3
Pyrene	500	1000	100	0.210 J	0.450 J
Total Metals (mg/kg)					
Aluminum	NA	NA	NA	4040	3960
Antimony	NA	NA	NA	<18 U	<22.1 U
Arsenic	16	16	13	9.3	6.8
Barium	400	10000	350	84.8	56.2
Beryllium	590	2700	7.2	0.21 J	0.22 J
Cadmium	9.3	60	2.5	0.58	0.5
Calcium	NA	NA	NA	30500 B	31200 B
Chromium, Total	1500	6800	30	8.4	8
Cobalt	NA	NA	NA	5.2	4.8
Copper	270	10000	50	32.7	28.3
Iron	NA	NA	NA	22700	19300
Lead	1000	3900	63	103	124
Magnesium	NA	NA	NA	5780	4290
Manganese	10000	10000	1600	854	582
Mercury	2.8	5.7	0.18	0.059	0.066
Nickel	310	10000	30	14.6	30.2
Potassium	NA	NA	NA	462	511
Selenium	1500	6800	3.9	<4.8 U	<5.9 U
Silver	1500	6800	2	0.47 J	0.35 J
Sodium	NA	NA	NA	623	596
Thallium	NA	NA	NA	<7.2 U	<8.8 U
Vanadium	NA	NA	NA	12.1	10.9
Zinc	10000	10000	109	121	108
Total Cyanide (mg/kg)					
Cyanide	27	1000	27	1.4	2.8
Polychlorinated Biphenyl (mg/kg)					
PCB-1016 (Aroclor 1016)	NA	NA	NA	<0.23 U	<0.3 U
PCB-1221 (Aroclor 1221)	NA	NA	NA	<0.23 U	<0.3 U
PCB-1232 (Aroclor 1232)	NA	NA	NA	<0.23 U	<0.3 U
PCB-1242 (Aroclor 1242)	NA	NA	NA	<0.23 U	<0.3 U
PCB-1248 (Aroclor 1248)	NA	NA	NA	<0.23 U	<0.3 U
PCB-1254 (Aroclor 1254)	NA	NA	NA	<0.23 U	<0.3 U
PCB-1260 (Aroclor 1260)	NA	NA	NA	<0.23 U	<0.3 U

Notes:

BOLD = detection

mg/kg = milligrams per kilogram, which is equivalent to ppm or parts per million

J = estimated value

U = not detected at or above the stated reporting limit

Detects reported to method detection limit; Non-detects reported to reporting limit.

⁽¹⁾Guidance Values from NYSDEC 6NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives (SCO)s: Unrestricted, Commercial, and Industrial Use, December 2006.

NA = guidance value does not exist

 = exceeds Part 375 Soil Cleanup Objectives, Commercial Use

 = exceeds Part 375 Soil Cleanup Objectives, Industrial Use

 = exceeds Part 375 Soil Cleanup Objectives, Unrestricted Use

Table 2
Seep Water and On-Site Groundwater Analytical Summary
Former West Station Plant Area MGP Site - Adjacent Property Investigation
Rochester, New York

Sample ID and Depth: Sample Date:	TOGS 1.1.1 *	SEEP-1	GMX-MW-26S
		05/27/2014	05/27/2014
Volatile Organic Compound (µg/L)			
1,1,1-Trichloroethane	5	<4 U	<4 U
1,1,2,2-Tetrachloroethane	5	<4 U	<4 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	<4 U	<4 U
1,1,2-Trichloroethane	1	<4 U	<4 U
1,1-Dichloroethane	5	<4 U	<4 U
1,1-Dichloroethene	5	<4 U	<4 U
1,2,4-Trichlorobenzene	5	<4 U	<4 U
1,2-Dibromo-3-Chloropropane	0.04	<4 U	<4 U
1,2-Dibromoethane (Ethylene Dibromide)	5	<4 U	<4 U
1,2-Dichlorobenzene	3	<4 U	<4 U
1,2-Dichloroethane	0.6	<4 U	<4 U
1,2-Dichloropropane	1	<4 U	<4 U
1,3-Dichlorobenzene	3	<4 U	<4 U
1,4-Dichlorobenzene	3	<4 U	<4 U
2-Hexanone	50	<20 U	<20 U
Acetone	50	<40 U	<40 U
Benzene	1	5.2	<4 U
Bromodichloromethane	50	<4 U	<4 U
Bromoform	50	<4 U	<4 U
Bromomethane	5	<4 U	<4 U
Carbon Disulfide	60	<4 U	10
Carbon Tetrachloride	5	<4 U	<4 U
Chlorobenzene	5	<4 U	<4 U
Chloroethane	5	<4 U	<4 U
Chloroform	7	<4 U	<4 U
Chloromethane	NA	<4 U	<4 U
Cis-1,2-Dichloroethylene	5	<4 U	<4 U
Cis-1,3-Dichloropropene	0.4	<4 U	<4 U
Cyclohexane	NA	<4 U	<4 U
Dibromochloromethane	5	<4 U	<4 U
Dichlorodifluoromethane	5	<4 U	<4 U
Ethylbenzene	5	<4 U	<4 U
Isopropylbenzene (Cumene)	5	<4 U	<4 U
Methyl Acetate	NA	<10 U	<10 U
Methyl Ethyl Ketone (2-Butanone)	50	<40 U	<40 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NA	<20 U	<20 U
Methylcyclohexane	NA	<4 U	<4 U
Methylene Chloride	5	<4 U	<4 U
Styrene	5	<4 U	<4 U
Tert-Butyl Methyl Ether	NA	<4 U	<4 U
Tetrachloroethylene(PCE)	5	<4 U	<4 U
Toluene	5	<4 U	<4 U
Trans-1,2-Dichloroethene	5	<4 U	<4 U
Trans-1,3-Dichloropropene	0.4	<4 U	<4 U
Trichloroethylene (TCE)	5	<4 U	<4 U
Trichlorofluoromethane	5	<4 U	<4 U
Vinyl Chloride	2	<4 U	<4 U
Xylenes, Total	5	11	<8 U

Notes:

BOLD = detection

µg/L = micrograms per liter, which is equivalent to ppb or parts per billion

J = estimated value

B = analyte was detected in the sample and the laboratory method blank.

U = not detected at or above the stated reporting limit

Detects reported to method detection limit; Non detects reported to reporting limit.

NA = guidance value does not exist

* Guidance values from 6NYCRR Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, for Class GA Waters presented in TOGS 1.1.1 June 1998.

5.2 = exceeds TOGS Guidance Criteria

Table 2
Seep Water and On-Site Groundwater Analytical Summary
Former West Station Plant Area MGP Site - Adjacent Property Investigation
Rochester, New York

Sample ID and Depth: Sample Date:	TOGS 1.1.1 *	SEEP-1	GMX-MW-26S
		05/27/2014	05/27/2014
Semi-Volatile Organic Compound (µg/L)			
2,4,5-Trichlorophenol	1	<4.6 U	<4.7 U
2,4,6-Trichlorophenol	1	<4.6 U	<4.7 U
2,4-Dichlorophenol	1	<4.6 U	<4.7 U
2,4-Dimethylphenol	1	<4.6 U	<4.7 U
2,4-Dinitrophenol	1	<9.2 U	<9.5 U
2,4-Dinitrotoluene	5	<4.6 U	<4.7 U
2,6-Dinitrotoluene	5	<4.6 U	<4.7 U
2-Chloronaphthalene	10	<4.6 U	<4.7 U
2-Chlorophenol	NA	<4.6 U	<4.7 U
2-Methylnaphthalene	NA	5	<4.7 U
2-Methylphenol (O-Cresol)	NA	<4.6 U	<4.7 U
2-Nitroaniline	5	<9.2 U	<9.5 U
2-Nitrophenol	NA	<4.6 U	<4.7 U
3,3'-Dichlorobenzidine	5	<4.6 U	<4.7 U
3-Nitroaniline	5	<9.2 U	<9.5 U
4,6-Dinitro-2-Methylphenol	NA	<9.2 U	<9.5 U
4-Bromophenyl Phenyl Ether	NA	<4.6 U	<4.7 U
4-Chloro-3-Methylphenol	NA	<4.6 U	<4.7 U
4-Chloroaniline	5	<4.6 U	<4.7 U
4-Chlorophenyl Phenyl Ether	NA	<4.6 U	<4.7 U
4-Methylphenol (P-Cresol)	NA	<9.2 U	<9.5 U
4-Nitroaniline	5	<9.2 U	<9.5 U
4-Nitrophenol	NA	<9.2 U	<9.5 U
Acenaphthene	20	3.5 J	0.91 J
Acenaphthylene	NA	1.3 J	<4.7 U
Acetophenone	NA	<4.6 U	<4.7 U
Anthracene	50	<4.6 U	<4.7 U
Atrazine	7.5	<4.6 U	<4.7 U
Benzaldehyde	NA	<4.6 U	<4.7 U
Benzo(a)Anthracene	0.002	<4.6 U	<4.7 U
Benzo(a)Pyrene	0.002	<4.6 U	<4.7 U
Benzo(b)Fluoranthene	0.002	<4.6 U	<4.7 U
Benzo(g,h,i)Perylene	NA	<4.6 U	<4.7 U
Benzo(k)Fluoranthene	0.002	<4.6 U	<4.7 U
Benzyl Butyl Phthalate	NA	<4.6 U	<4.7 U
Biphenyl (Diphenyl)	5	<4.6 U	<4.7 U
Bis(2-Chloroethoxy) Methane	5	<4.6 U	<4.7 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	<4.6 U	<4.7 U
Bis(2-Chloroisopropyl) Ether	NA	<4.6 U	<4.7 U
Bis(2-Ethylhexyl) Phthalate	5	<4.6 U	<4.7 U
Caprolactam	NA	<4.6 U	2.2 J
Carbazole	NA	1.3 J	<4.7 U
Chrysene	0.002	<4.6 U	<4.7 U
Dibenz(a,h)Anthracene	NA	<4.6 U	<4.7 U
Dibenzofuran	NA	0.69 J	<9.5 U
Diethyl Phthalate	50	<4.6 U	<4.7 U
Dimethyl Phthalate	50	<4.6 U	<4.7 U
Di-N-Butyl Phthalate	50	<4.6 U	<4.7 U

Notes:

BOLD = detection

µg/L = micrograms per liter, which is equivalent to ppb or parts per billion

J = estimated value

B = analyte was detected in the sample and the laboratory method blank.

U = not detected at or above the stated reporting limit

Detects reported to method detection limit; Non detects reported to reporting limit.

NA = guidance value does not exist

* Guidance values from 6NYCRR Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, for Class GA Waters presented in TOGS 1.1.1 June 1998.

5 = exceeds TOGS Guidance Criteria

Table 2
Seep Water and On-Site Groundwater Analytical Summary
Former West Station Plant Area MGP Site - Adjacent Property Investigation
Rochester, New York

Sample ID and Depth: Sample Date:	TOGS 1.1.1 *	SEEP-1 05/27/2014	GMX-MW-26S 05/27/2014
Semi-Volatile Organic Compound (µg/L) continued			
Di-N-Octylphthalate	50	<4.6 U	<4.7 U
Fluoranthene	50	<4.6 U	<4.7 U
Fluorene	50	<4.6 U	<4.7 U
Hexachlorobenzene	0.04	<4.6 U	<4.7 U
Hexachlorobutadiene	0.5	<4.6 U	<4.7 U
Hexachlorocyclopentadiene	5	<4.6 U	<4.7 U
Hexachloroethane	5	<4.6 U	<4.7 U
Indeno(1,2,3-C,D)Pyrene	0.002	<4.6 U	<4.7 U
Isophorone	50	<4.6 U	<4.7 U
Naphthalene	10	17	<4.7 U
Nitrobenzene	0.4	<4.6 U	<4.7 U
N-Nitrosodi-N-Propylamine	NA	<4.6 U	<4.7 U
N-Nitrosodiphenylamine	50	<4.6 U	<4.7 U
Pentachlorophenol	1	<9.2 U	<9.5 U
Phenanthrene	50	<4.6 U	<4.7 U
Phenol	1	<4.6 U	<4.7 U
Pyrene	50	<4.6 U	<4.7 U
Total Metal (mg/L)			
Aluminum	NA	<0.2 U	0.074 J
Antimony	0.003	<0.02 U	<0.02 U
Arsenic	0.025	<0.015 U	0.0083 J
Barium	1	0.086	0.18
Beryllium	NA	<0.002 U	<0.002 U
Cadmium	0.005	<0.002 U	<0.002 U
Calcium	NA	318	263
Chromium, Total	0.05	<0.004 U	0.0019 J
Cobalt	NA	<0.004 U	0.00065 J
Copper	0.2	0.0022 J	<0.01 U
Iron	0.3	1.4	7.8
Lead	0.025	<0.01 U	<0.01 U
Magnesium	NA	82.8	93.9
Manganese	0.3	0.74	1.4
Mercury	0.0007	<0.0002 U	<0.0002 U
Nickel	0.1	0.0025 J	0.0026 J
Potassium	NA	10 B	14.5 B
Selenium	0.01	<0.025 U	0.0093 J
Silver	0.05	<0.006 U	<0.006 U
Sodium	20	642	780
Thallium	NA	<0.02 U	<0.02 U
Vanadium	NA	<0.005 U	<0.005 U
Zinc	NA	0.0061 J	0.01
Total Cyanide (mg/L)			
Cyanide	0.2	0.02	0.047
Water Quality Parameters (mg/L)			
Alkalinity, Total (As CaCO3)	NA	403	495 B
Chloride (As Cl)	250	1100	1270
Nitrogen, Nitrate (As N)	10	0.054	0.22
Sulfate (As SO4)	250	599	568
Total Dissolved Solids	500	3140	3440

Notes:

BOLD = detection

µg/L = micrograms per liter, which is equivalent to ppb or parts per billion

J = estimated value

B = analyte was detected in the sample and the laboratory method blank.

U = not detected at or above the stated reporting limit

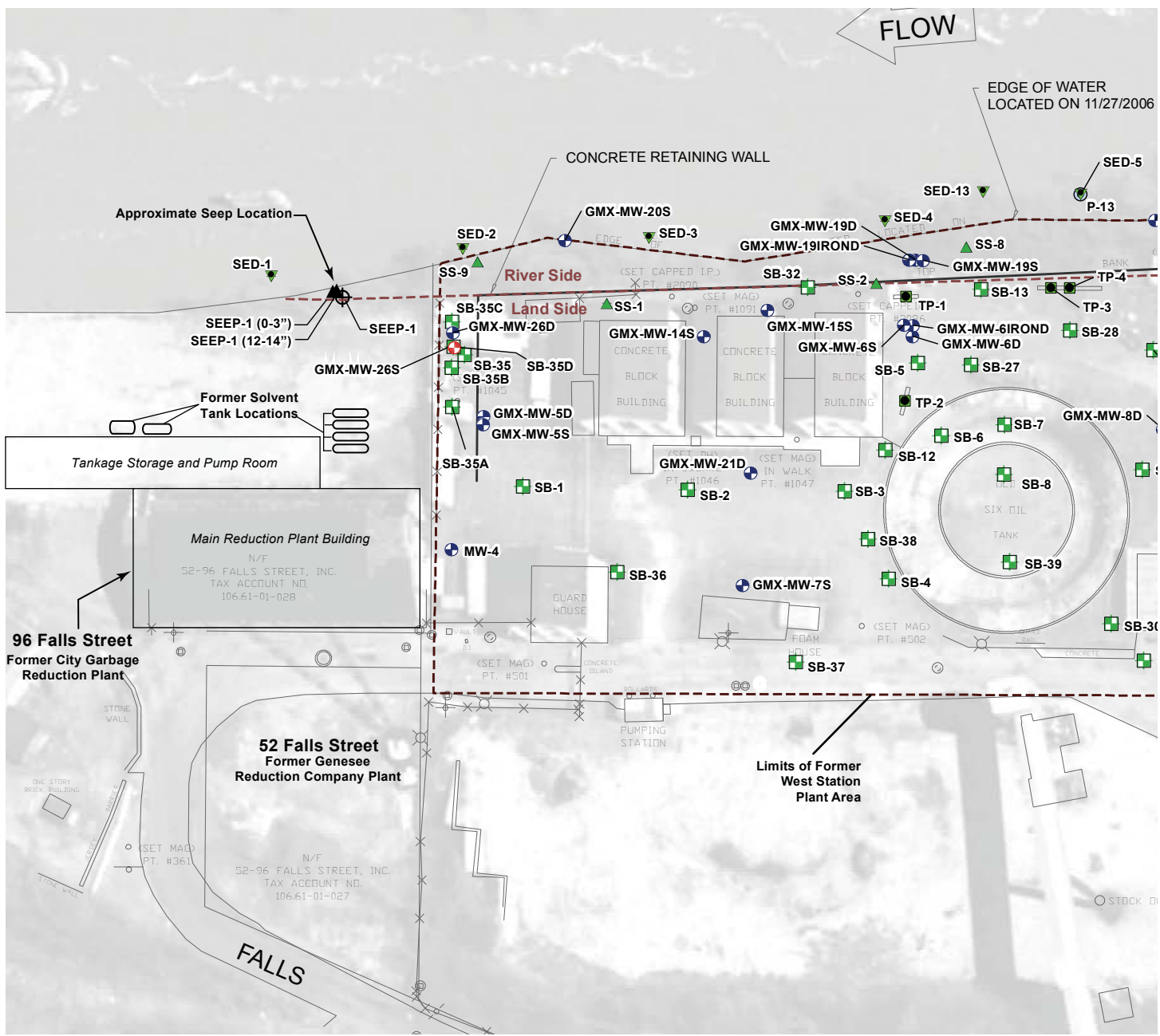
Detects reported to method detection limit; Non detects reported to reporting limit.

NA = guidance value does not exist

* Guidance values from 6NYCRR Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, for Class GA Waters presented in TOGS 1.1.1 June 1998.

17 = exceeds TOGS Guidance Criteria

Figures



EXPLANATION

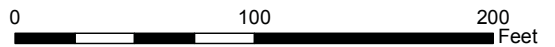
96 Falls Street Investigation

Phase I Investigation

- SEEP-1 (0-3") ▲ Soil Sample Location
- SEEP-1 ⊕ Seep Sample Location
- GMX-MW-26S ⊕ Groundwater Sample Location

West Station MGP Plant Area Investigation

- ⊕ Monitoring Well
- ⊙ Pore Water
- ▼ Sediment Sample
- ⊕ Soil Boring
- ▲ Surface Soil
- Test Pit



West Station Former MGP Site- Plant Area		Phase I Sampling Locations- Adjacent Property Investigation
Rochester Gas and Electric Rochester, New York		Project #128480 Date: 7/2014 Figure 1

Attachment A

Test America Laboratory Data Package (Level 2 package included)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

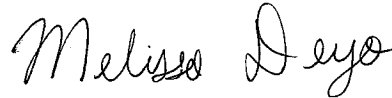
TestAmerica Job ID: 480-60592-1

Client Project/Site: RG&E - West Station Former MGP Site

For:

GEI Consultants, Inc.
90B John Muir Drive
Suite 104
Amherst, New York 14228

Attn: Michael Cummings



Authorized for release by:
7/1/2014 7:41:26 PM

Melissa Deyo, Project Manager I
(716)504-9874

melissa.deyo@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	9
Surrogate Summary	25
QC Sample Results	27
QC Association Summary	43
Lab Chronicle	48
Certification Summary	50
Method Summary	51
Sample Summary	52
Chain of Custody	53
Receipt Checklists	54

Definitions/Glossary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Job ID: 480-60592-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-60592-1

Receipt

The samples were received on 5/27/2014 6:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

Except:

No collection time listed on the COC for the following samples: SEEP-1-0-3" (480-60592-1), SEEP-1-12-14" (480-60592-2). The collection time was taken from the sample labels.

GC/MS VOA

Method(s) 8260C: The method blank for batch 184378 contained Methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: MW-26S (480-60592-4), SEEP-1 (480-60592-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: SEEP-1-0-3" (480-60592-1), SEEP-1-12-14" (480-60592-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 185840 recovered above the upper control limit for 2,4-Dinitrophenol and 2,4-Dinitrotoluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-185840/3).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 185840 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-185840/4).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 185382 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-185382/4), (CCVIS 480-185382/3).

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 190710 was outside the method criteria for the following analyte: Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 190710 recovered above the upper control limit for Atrazine and 3,3'-Dichlorobenzidine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-190710/5).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 190112 recovered above the upper control limit for Atrazine and 3,3'-Dichlorobenzidine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 480-190112/12), (CCV 480-190112/13).

Method(s) 8270D: The laboratory control sample (LCS) for batch 184424 recovered outside control limits for 4-Methylphenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The method blank for batch 184424 contained Benzaldehyde above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Case Narrative

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Job ID: 480-60592-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The surrogate percent difference in the associated continuing calibration verifications (CCV) for Decachlorobiphenyl exceeded 20%, indicating a high bias. (CCV 480-184798/15), (CCV 480-184798/33)

Method(s) 8082A: All primary data is reported from the ZB-5 column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The method blank for batch 480-184578 contained calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010C: The method blank for batch 480-184445 contained potassium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010C: The continuing calibration blank (CCB) for analytical batch 480-185085 contained aluminum, beryllium, calcium, iron, and sodium above the reporting limit (RL). All reported samples associated with this CCB were either less than the reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples (MB 480-184445/1-A), MW-26S (480-60592-4) was not performed.

Method(s) 6010C: The low level continuing calibration verification (CCVL 480-185085/40) recovered above the upper control limit for beryllium and iron. The sample(s) associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-26S (480-60592-4) was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: MW-26S (480-60592-4). The reporting limits (RLs) have been adjusted proportionately.

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: SEEP-1 (480-60592-3). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 310.2: The method blank for batch 185480 contained alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. MW-26S (480-60592-4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-0-3"

Lab Sample ID: 480-60592-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	160	J	1100	18	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	140	J	1100	25	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	190	J	1100	20	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160	J	1100	13	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	130	J	1100	12	ug/Kg	5	☼	8270D	Total/NA
Chrysene	140	J	1100	10	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	220	J	1100	15	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	110	J	1100	29	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	89	J	1100	22	ug/Kg	5	☼	8270D	Total/NA
Pyrene	210	J	1100	6.8	ug/Kg	5	☼	8270D	Total/NA
Aluminum	4040		12.0	5.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	9.3		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	84.8		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.21	J	0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.58		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	30500	B	60.1	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.4		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.2		0.60	0.060	mg/Kg	1	☼	6010C	Total/NA
Copper	32.7		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	22700		12.0	1.3	mg/Kg	1	☼	6010C	Total/NA
Lead	103		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5780		24.0	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	854		0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	14.6		6.0	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	462		36.1	24.0	mg/Kg	1	☼	6010C	Total/NA
Silver	0.47	J	0.72	0.24	mg/Kg	1	☼	6010C	Total/NA
Sodium	623		168	15.6	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.1		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	121		2.4	0.18	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.059		0.023	0.0092	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.4		1.2	0.58	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: SEEP-1-12-14"

Lab Sample ID: 480-60592-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	370	J	1300	22	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	440	J	1300	30	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	510	J	1300	24	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	330	J	1300	15	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	270	J	1300	14	ug/Kg	5	☼	8270D	Total/NA
Butyl benzyl phthalate	620	J	1300	340	ug/Kg	5	☼	8270D	Total/NA
Chrysene	440	J	1300	13	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	95	J	1300	15	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	530	J	1300	18	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	270	J	1300	35	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	200	J	1300	26	ug/Kg	5	☼	8270D	Total/NA
Pyrene	450	J	1300	8.1	ug/Kg	5	☼	8270D	Total/NA
Aluminum	3960		14.7	6.5	mg/Kg	1	☼	6010C	Total/NA
Arsenic	6.8		2.9	0.59	mg/Kg	1	☼	6010C	Total/NA
Barium	56.2		0.74	0.16	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-12-14" (Continued)

Lab Sample ID: 480-60592-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Beryllium	0.22	J	0.29	0.041	mg/Kg	1		☼	6010C	Total/NA
Cadmium	0.50		0.29	0.044	mg/Kg	1		☼	6010C	Total/NA
Calcium	31200	B	73.7	4.9	mg/Kg	1		☼	6010C	Total/NA
Chromium	8.0		0.74	0.29	mg/Kg	1		☼	6010C	Total/NA
Cobalt	4.8		0.74	0.074	mg/Kg	1		☼	6010C	Total/NA
Copper	28.3		1.5	0.31	mg/Kg	1		☼	6010C	Total/NA
Iron	19300		14.7	1.6	mg/Kg	1		☼	6010C	Total/NA
Lead	124		1.5	0.35	mg/Kg	1		☼	6010C	Total/NA
Magnesium	4290		29.5	1.4	mg/Kg	1		☼	6010C	Total/NA
Manganese	582		0.29	0.047	mg/Kg	1		☼	6010C	Total/NA
Nickel	30.2		7.4	0.34	mg/Kg	1		☼	6010C	Total/NA
Potassium	511		44.2	29.5	mg/Kg	1		☼	6010C	Total/NA
Silver	0.35	J	0.88	0.29	mg/Kg	1		☼	6010C	Total/NA
Sodium	596		206	19.2	mg/Kg	1		☼	6010C	Total/NA
Vanadium	10.9		0.74	0.16	mg/Kg	1		☼	6010C	Total/NA
Zinc	108		2.9	0.23	mg/Kg	1		☼	6010C	Total/NA
Mercury	0.066		0.029	0.012	mg/Kg	1		☼	7471B	Total/NA
Cyanide, Total	2.8		1.5	0.70	mg/Kg	1		☼	9012B	Total/NA

Client Sample ID: SEEP-1

Lab Sample ID: 480-60592-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	5.2		4.0	1.6	ug/L	4			8260C	Total/NA
Xylenes, Total	11		8.0	2.6	ug/L	4			8260C	Total/NA
2-Methylnaphthalene	5.0		4.6	0.55	ug/L	1			8270D	Total/NA
Acenaphthene	3.5	J	4.6	0.38	ug/L	1			8270D	Total/NA
Acenaphthylene	1.3	J	4.6	0.35	ug/L	1			8270D	Total/NA
Carbazole	1.3	J	4.6	0.28	ug/L	1			8270D	Total/NA
Dibenzofuran	0.69	J	9.2	0.47	ug/L	1			8270D	Total/NA
Naphthalene	17		4.6	0.70	ug/L	1			8270D	Total/NA
Barium	0.086		0.0020	0.00070	mg/L	1			6010C	Total/NA
Calcium	318		0.50	0.10	mg/L	1			6010C	Total/NA
Copper	0.0022	J	0.010	0.0016	mg/L	1			6010C	Total/NA
Iron	1.4		0.050	0.019	mg/L	1			6010C	Total/NA
Magnesium	82.8		0.20	0.043	mg/L	1			6010C	Total/NA
Manganese	0.74		0.0030	0.00040	mg/L	1			6010C	Total/NA
Nickel	0.0025	J	0.010	0.0013	mg/L	1			6010C	Total/NA
Potassium	10	B	0.50	0.10	mg/L	1			6010C	Total/NA
Sodium	642		1.0	0.32	mg/L	1			6010C	Total/NA
Zinc	0.0061	J	0.010	0.0015	mg/L	1			6010C	Total/NA
Alkalinity, Total	403		100	40.0	mg/L	10			310.2	Total/NA
Nitrate as N	0.054		0.050	0.020	mg/L	1			353.2	Total/NA
Cyanide, Total	0.020		0.010	0.0050	mg/L	1			9012B	Total/NA
Sulfate	599		150	45.0	mg/L	30			9038	Total/NA
Chloride	1100		50.0	17.0	mg/L	50			9251	Total/NA
Total Dissolved Solids	3140		40.0	16.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-26S

Lab Sample ID: 480-60592-4

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: GEI Consultants, Inc.
 Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: MW-26S (Continued)

Lab Sample ID: 480-60592-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	10		4.0	0.76	ug/L	4		8260C	Total/NA
Acenaphthene	0.91	J	4.7	0.39	ug/L	1		8270D	Total/NA
Caprolactam	2.2	J	4.7	2.1	ug/L	1		8270D	Total/NA
Aluminum	0.074	J ^	0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.0083	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.18		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	263	^	0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0019	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.00065	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	7.8	^	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	93.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.4		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0026	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	14.5	B	0.50	0.10	mg/L	1		6010C	Total/NA
Selenium	0.0093	J	0.025	0.0087	mg/L	1		6010C	Total/NA
Sodium	780	^	1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.010		0.010	0.0015	mg/L	1		6010C	Total/NA
Alkalinity, Total	495	B	100	40.0	mg/L	10		310.2	Total/NA
Nitrate as N	0.22		0.050	0.020	mg/L	1		353.2	Total/NA
Cyanide, Total	0.047		0.010	0.0050	mg/L	1		9012B	Total/NA
Sulfate	568		150	45.0	mg/L	30		9038	Total/NA
Chloride	1270		50.0	17.0	mg/L	50		9251	Total/NA
Total Dissolved Solids	3440		40.0	16.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-60592-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-0-3"

Lab Sample ID: 480-60592-1

Date Collected: 05/27/14 11:30

Matrix: Solid

Date Received: 05/27/14 18:00

Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.1	0.44	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,1,2,2-Tetrachloroethane	ND		6.1	0.99	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,1,2-Trichloroethane	ND		6.1	0.79	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.1	1.4	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,1-Dichloroethane	ND		6.1	0.74	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,1-Dichloroethene	ND		6.1	0.75	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,2,4-Trichlorobenzene	ND		6.1	0.37	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,2-Dibromo-3-Chloropropane	ND		6.1	3.0	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,2-Dichlorobenzene	ND		6.1	0.48	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,2-Dichloroethane	ND		6.1	0.31	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,2-Dichloropropane	ND		6.1	3.0	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,3-Dichlorobenzene	ND		6.1	0.31	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,4-Dichlorobenzene	ND		6.1	0.85	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
2-Butanone (MEK)	ND		30	2.2	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
2-Hexanone	ND		30	3.0	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		30	2.0	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Acetone	ND		30	5.1	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Benzene	ND		6.1	0.30	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Bromodichloromethane	ND		6.1	0.82	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Bromoform	ND		6.1	3.0	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Bromomethane	ND		6.1	0.55	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Carbon disulfide	ND		6.1	3.0	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Carbon tetrachloride	ND		6.1	0.59	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Chlorobenzene	ND		6.1	0.80	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Dibromochloromethane	ND		6.1	0.78	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Chloroethane	ND		6.1	1.4	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Chloroform	ND		6.1	0.38	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Chloromethane	ND		6.1	0.37	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
cis-1,2-Dichloroethene	ND		6.1	0.78	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
cis-1,3-Dichloropropene	ND		6.1	0.88	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Cyclohexane	ND		6.1	0.85	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Dichlorodifluoromethane	ND		6.1	0.50	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Ethylbenzene	ND		6.1	0.42	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
1,2-Dibromoethane	ND		6.1	0.78	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Isopropylbenzene	ND		6.1	0.92	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Methyl acetate	ND		6.1	3.7	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Methyl tert-butyl ether	ND		6.1	0.60	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Methylcyclohexane	ND		6.1	0.93	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Methylene Chloride	ND		6.1	2.8	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Styrene	ND		6.1	0.30	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Tetrachloroethene	ND		6.1	0.82	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Toluene	ND		6.1	0.46	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
trans-1,2-Dichloroethene	ND		6.1	0.63	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
trans-1,3-Dichloropropene	ND		6.1	2.7	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Trichloroethene	ND		6.1	1.3	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Trichlorofluoromethane	ND		6.1	0.58	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Vinyl chloride	ND		6.1	0.74	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1
Xylenes, Total	ND		12	1.0	ug/Kg	*	05/28/14 12:57	05/28/14 17:09	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-0-3"

Lab Sample ID: 480-60592-1

Date Collected: 05/27/14 11:30

Matrix: Solid

Date Received: 05/27/14 18:00

Percent Solids: 80.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	05/28/14 12:57	05/28/14 17:09	1
1,2-Dichloroethane-d4 (Surr)	100		64 - 126	05/28/14 12:57	05/28/14 17:09	1
4-Bromofluorobenzene (Surr)	100		72 - 126	05/28/14 12:57	05/28/14 17:09	1
Dibromofluoromethane (Surr)	99		60 - 140	05/28/14 12:57	05/28/14 17:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1100	65	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
bis (2-chloroisopropyl) ether	ND		1100	110	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2,4,5-Trichlorophenol	ND		1100	230	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2,4,6-Trichlorophenol	ND		1100	69	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2,4-Dichlorophenol	ND		1100	55	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2,4-Dimethylphenol	ND		1100	280	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2,4-Dinitrophenol	ND		2000	370	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2,4-Dinitrotoluene	ND		1100	160	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2,6-Dinitrotoluene	ND		1100	260	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2-Chloronaphthalene	ND		1100	70	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2-Chlorophenol	ND		1100	53	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2-Methylphenol	ND		1100	32	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2-Methylnaphthalene	ND		1100	13	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2-Nitroaniline	ND		2000	340	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
2-Nitrophenol	ND		1100	48	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
3,3'-Dichlorobenzidine	ND		1100	920	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
3-Nitroaniline	ND		2000	240	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
4,6-Dinitro-2-methylphenol	ND		2000	360	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
4-Bromophenyl phenyl ether	ND		1100	330	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
4-Chloro-3-methylphenol	ND		1100	43	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
4-Chloroaniline	ND		1100	310	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
4-Chlorophenyl phenyl ether	ND		1100	22	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
4-Methylphenol	ND		2000	58	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
4-Nitroaniline	ND		2000	120	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
4-Nitrophenol	ND		2000	250	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Acenaphthene	ND		1100	12	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Acenaphthylene	ND		1100	8.6	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Acetophenone	ND		1100	54	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Anthracene	ND		1100	27	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Atrazine	ND		1100	47	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Benzaldehyde	ND		1100	110	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Benzo[a]anthracene	160	J	1100	18	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Benzo[a]pyrene	140	J	1100	25	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Benzo[b]fluoranthene	190	J	1100	20	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Benzo[g,h,i]perylene	160	J	1100	13	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Benzo[k]fluoranthene	130	J	1100	12	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Bis(2-chloroethoxy)methane	ND		1100	57	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Bis(2-chloroethyl)ether	ND		1100	90	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Bis(2-ethylhexyl) phthalate	ND		1100	340	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Butyl benzyl phthalate	ND		1100	280	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Caprolactam	ND		1100	450	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Carbazole	ND		1100	12	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Chrysene	140	J	1100	10	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-0-3"

Lab Sample ID: 480-60592-1

Date Collected: 05/27/14 11:30

Matrix: Solid

Date Received: 05/27/14 18:00

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		1100	12	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Di-n-butyl phthalate	ND		1100	360	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Di-n-octyl phthalate	ND		1100	24	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Dibenzofuran	ND		1100	11	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Diethyl phthalate	ND		1100	32	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Dimethyl phthalate	ND		1100	27	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Fluoranthene	220	J	1100	15	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Fluorene	ND		1100	24	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Hexachlorobenzene	ND		1100	52	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Hexachlorobutadiene	ND		1100	54	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Hexachlorocyclopentadiene	ND		1100	320	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Hexachloroethane	ND		1100	81	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Indeno[1,2,3-cd]pyrene	110	J	1100	29	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Isophorone	ND		1100	52	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
N-Nitrosodi-n-propylamine	ND		1100	83	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
N-Nitrosodiphenylamine	ND		1100	57	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Naphthalene	ND		1100	17	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Nitrobenzene	ND		1100	46	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Pentachlorophenol	ND		2000	360	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Phenanthrene	89	J	1100	22	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Phenol	ND		1100	110	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5
Pyrene	210	J	1100	6.8	ug/Kg	☼	05/29/14 07:50	06/05/14 14:44	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		34 - 132	05/29/14 07:50	06/05/14 14:44	5
Phenol-d5 (Surr)	85		11 - 120	05/29/14 07:50	06/05/14 14:44	5
p-Terphenyl-d14 (Surr)	87		65 - 153	05/29/14 07:50	06/05/14 14:44	5
2,4,6-Tribromophenol (Surr)	79		39 - 146	05/29/14 07:50	06/05/14 14:44	5
2-Fluorobiphenyl	90		37 - 120	05/29/14 07:50	06/05/14 14:44	5
2-Fluorophenol (Surr)	79		18 - 120	05/29/14 07:50	06/05/14 14:44	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.044	mg/Kg	☼	05/29/14 15:03	05/30/14 16:33	1
PCB-1221	ND		0.23	0.044	mg/Kg	☼	05/29/14 15:03	05/30/14 16:33	1
PCB-1232	ND		0.23	0.044	mg/Kg	☼	05/29/14 15:03	05/30/14 16:33	1
PCB-1242	ND		0.23	0.044	mg/Kg	☼	05/29/14 15:03	05/30/14 16:33	1
PCB-1248	ND		0.23	0.044	mg/Kg	☼	05/29/14 15:03	05/30/14 16:33	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	05/29/14 15:03	05/30/14 16:33	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	05/29/14 15:03	05/30/14 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		46 - 175	05/29/14 15:03	05/30/14 16:33	1
DCB Decachlorobiphenyl	128		47 - 176	05/29/14 15:03	05/30/14 16:33	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4040		12.0	5.3	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Antimony	ND		18.0	0.48	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Arsenic	9.3		2.4	0.48	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-0-3"

Lab Sample ID: 480-60592-1

Date Collected: 05/27/14 11:30

Matrix: Solid

Date Received: 05/27/14 18:00

Percent Solids: 80.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	84.8		0.60	0.13	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Beryllium	0.21	J	0.24	0.034	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Cadmium	0.58		0.24	0.036	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Calcium	30500	B	60.1	4.0	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Chromium	8.4		0.60	0.24	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Cobalt	5.2		0.60	0.060	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Copper	32.7		1.2	0.25	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Iron	22700		12.0	1.3	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Lead	103		1.2	0.29	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Magnesium	5780		24.0	1.1	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Manganese	854		0.24	0.038	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Nickel	14.6		6.0	0.28	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Potassium	462		36.1	24.0	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Selenium	ND		4.8	0.48	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Silver	0.47	J	0.72	0.24	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Sodium	623		168	15.6	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Thallium	ND		7.2	0.36	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Vanadium	12.1		0.60	0.13	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1
Zinc	121		2.4	0.18	mg/Kg	☼	05/29/14 11:00	05/30/14 23:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.023	0.0092	mg/Kg	☼	05/30/14 10:00	05/31/14 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1.4		1.2	0.58	mg/Kg	☼	06/04/14 21:41	06/05/14 10:18	1

Client Sample ID: SEEP-1-12-14"

Lab Sample ID: 480-60592-2

Date Collected: 05/27/14 12:00

Matrix: Solid

Date Received: 05/27/14 18:00

Percent Solids: 66.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.0	0.58	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,1,2,2-Tetrachloroethane	ND		8.0	1.3	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,1,2-Trichloroethane	ND		8.0	1.0	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	1.8	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,1-Dichloroethane	ND		8.0	0.98	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,1-Dichloroethene	ND		8.0	0.98	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,2,4-Trichlorobenzene	ND		8.0	0.49	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,2-Dibromo-3-Chloropropane	ND		8.0	4.0	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,2-Dichlorobenzene	ND		8.0	0.63	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,2-Dichloroethane	ND		8.0	0.40	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,2-Dichloropropane	ND		8.0	4.0	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,3-Dichlorobenzene	ND		8.0	0.41	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,4-Dichlorobenzene	ND		8.0	1.1	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
2-Butanone (MEK)	ND		40	2.9	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
2-Hexanone	ND		40	4.0	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
4-Methyl-2-pentanone (MIBK)	ND		40	2.6	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-12-14"

Lab Sample ID: 480-60592-2

Date Collected: 05/27/14 12:00

Matrix: Solid

Date Received: 05/27/14 18:00

Percent Solids: 66.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		40	6.8	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Benzene	ND		8.0	0.39	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Bromodichloromethane	ND		8.0	1.1	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Bromoform	ND		8.0	4.0	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Bromomethane	ND		8.0	0.72	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Carbon disulfide	ND		8.0	4.0	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Carbon tetrachloride	ND		8.0	0.78	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Chlorobenzene	ND		8.0	1.1	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Dibromochloromethane	ND		8.0	1.0	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Chloroethane	ND		8.0	1.8	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Chloroform	ND		8.0	0.50	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Chloromethane	ND		8.0	0.48	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
cis-1,2-Dichloroethene	ND		8.0	1.0	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
cis-1,3-Dichloropropene	ND		8.0	1.2	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Cyclohexane	ND		8.0	1.1	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Dichlorodifluoromethane	ND		8.0	0.66	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Ethylbenzene	ND		8.0	0.55	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
1,2-Dibromoethane	ND		8.0	1.0	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Isopropylbenzene	ND		8.0	1.2	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Methyl acetate	ND		8.0	4.8	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Methyl tert-butyl ether	ND		8.0	0.79	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Methylcyclohexane	ND		8.0	1.2	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Methylene Chloride	ND		8.0	3.7	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Styrene	ND		8.0	0.40	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Tetrachloroethene	ND		8.0	1.1	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Toluene	ND		8.0	0.61	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
trans-1,2-Dichloroethene	ND		8.0	0.83	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
trans-1,3-Dichloropropene	ND		8.0	3.5	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Trichloroethene	ND		8.0	1.8	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Trichlorofluoromethane	ND		8.0	0.76	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Vinyl chloride	ND		8.0	0.98	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1
Xylenes, Total	ND		16	1.3	ug/Kg	☼	05/28/14 12:57	05/28/14 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 125	05/28/14 12:57	05/28/14 17:34	1
1,2-Dichloroethane-d4 (Surr)	100		64 - 126	05/28/14 12:57	05/28/14 17:34	1
4-Bromofluorobenzene (Surr)	99		72 - 126	05/28/14 12:57	05/28/14 17:34	1
Dibromofluoromethane (Surr)	102		60 - 140	05/28/14 12:57	05/28/14 17:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1300	78	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
bis (2-chloroisopropyl) ether	ND		1300	130	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2,4,5-Trichlorophenol	ND		1300	270	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2,4,6-Trichlorophenol	ND		1300	83	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2,4-Dichlorophenol	ND		1300	66	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2,4-Dimethylphenol	ND		1300	340	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2,4-Dinitrophenol	ND		2400	440	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2,4-Dinitrotoluene	ND		1300	190	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2,6-Dinitrotoluene	ND		1300	310	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-12-14"

Lab Sample ID: 480-60592-2

Date Collected: 05/27/14 12:00

Matrix: Solid

Date Received: 05/27/14 18:00

Percent Solids: 66.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		1300	84	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2-Chlorophenol	ND		1300	64	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2-Methylphenol	ND		1300	38	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2-Methylnaphthalene	ND		1300	15	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2-Nitroaniline	ND		2400	400	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
2-Nitrophenol	ND		1300	57	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
3,3'-Dichlorobenzidine	ND		1300	1100	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
3-Nitroaniline	ND		2400	290	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
4,6-Dinitro-2-methylphenol	ND		2400	430	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
4-Bromophenyl phenyl ether	ND		1300	400	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
4-Chloro-3-methylphenol	ND		1300	51	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
4-Chloroaniline	ND		1300	370	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
4-Chlorophenyl phenyl ether	ND		1300	27	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
4-Methylphenol	ND		2400	70	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
4-Nitroaniline	ND		2400	140	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
4-Nitrophenol	ND		2400	300	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Acenaphthene	ND		1300	15	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Acenaphthylene	ND		1300	10	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Acetophenone	ND		1300	64	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Anthracene	ND		1300	32	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Atrazine	ND		1300	56	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Benzaldehyde	ND		1300	140	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Benzo[a]anthracene	370	J	1300	22	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Benzo[a]pyrene	440	J	1300	30	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Benzo[b]fluoranthene	510	J	1300	24	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Benzo[g,h,i]perylene	330	J	1300	15	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Benzo[k]fluoranthene	270	J	1300	14	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Bis(2-chloroethoxy)methane	ND		1300	68	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Bis(2-chloroethyl)ether	ND		1300	110	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Bis(2-ethylhexyl) phthalate	ND		1300	400	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Butyl benzyl phthalate	620	J	1300	340	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Caprolactam	ND		1300	540	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Carbazole	ND		1300	14	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Chrysene	440	J	1300	13	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Dibenz(a,h)anthracene	95	J	1300	15	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Di-n-butyl phthalate	ND		1300	430	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Di-n-octyl phthalate	ND		1300	29	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Dibenzofuran	ND		1300	13	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Diethyl phthalate	ND		1300	38	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Dimethyl phthalate	ND		1300	33	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Fluoranthene	530	J	1300	18	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Fluorene	ND		1300	29	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Hexachlorobenzene	ND		1300	62	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Hexachlorobutadiene	ND		1300	64	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Hexachlorocyclopentadiene	ND		1300	380	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Hexachloroethane	ND		1300	97	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Indeno[1,2,3-cd]pyrene	270	J	1300	35	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Isophorone	ND		1300	63	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
N-Nitrosodi-n-propylamine	ND		1300	99	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-12-14"

Lab Sample ID: 480-60592-2

Date Collected: 05/27/14 12:00

Matrix: Solid

Date Received: 05/27/14 18:00

Percent Solids: 66.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		1300	68	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Naphthalene	ND		1300	21	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Nitrobenzene	ND		1300	55	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Pentachlorophenol	ND		2400	430	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Phenanthrene	200	J	1300	26	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Phenol	ND		1300	130	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5
Pyrene	450	J	1300	8.1	ug/Kg	☼	05/29/14 07:50	06/05/14 15:09	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	69		34 - 132	05/29/14 07:50	06/05/14 15:09	5
Phenol-d5 (Surr)	78		11 - 120	05/29/14 07:50	06/05/14 15:09	5
p-Terphenyl-d14 (Surr)	71		65 - 153	05/29/14 07:50	06/05/14 15:09	5
2,4,6-Tribromophenol (Surr)	76		39 - 146	05/29/14 07:50	06/05/14 15:09	5
2-Fluorobiphenyl	75		37 - 120	05/29/14 07:50	06/05/14 15:09	5
2-Fluorophenol (Surr)	73		18 - 120	05/29/14 07:50	06/05/14 15:09	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	☼	05/29/14 15:03	05/30/14 16:48	1
PCB-1221	ND		0.30	0.059	mg/Kg	☼	05/29/14 15:03	05/30/14 16:48	1
PCB-1232	ND		0.30	0.059	mg/Kg	☼	05/29/14 15:03	05/30/14 16:48	1
PCB-1242	ND		0.30	0.059	mg/Kg	☼	05/29/14 15:03	05/30/14 16:48	1
PCB-1248	ND		0.30	0.059	mg/Kg	☼	05/29/14 15:03	05/30/14 16:48	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	05/29/14 15:03	05/30/14 16:48	1
PCB-1260	ND		0.30	0.14	mg/Kg	☼	05/29/14 15:03	05/30/14 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	133		46 - 175	05/29/14 15:03	05/30/14 16:48	1
DCB Decachlorobiphenyl	145		47 - 176	05/29/14 15:03	05/30/14 16:48	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3960		14.7	6.5	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Antimony	ND		22.1	0.59	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Arsenic	6.8		2.9	0.59	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Barium	56.2		0.74	0.16	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Beryllium	0.22	J	0.29	0.041	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Cadmium	0.50		0.29	0.044	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Calcium	31200	B	73.7	4.9	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Chromium	8.0		0.74	0.29	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Cobalt	4.8		0.74	0.074	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Copper	28.3		1.5	0.31	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Iron	19300		14.7	1.6	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Lead	124		1.5	0.35	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Magnesium	4290		29.5	1.4	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Manganese	582		0.29	0.047	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Nickel	30.2		7.4	0.34	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Potassium	511		44.2	29.5	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Selenium	ND		5.9	0.59	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Silver	0.35	J	0.88	0.29	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-12-14"

Lab Sample ID: 480-60592-2

Date Collected: 05/27/14 12:00

Matrix: Solid

Date Received: 05/27/14 18:00

Percent Solids: 66.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	596		206	19.2	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Thallium	ND		8.8	0.44	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Vanadium	10.9		0.74	0.16	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1
Zinc	108		2.9	0.23	mg/Kg	☼	05/29/14 11:00	05/30/14 23:27	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066		0.029	0.012	mg/Kg	☼	05/30/14 10:00	05/31/14 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.8		1.5	0.70	mg/Kg	☼	06/04/14 21:41	06/05/14 10:19	1

Client Sample ID: SEEP-1

Lab Sample ID: 480-60592-3

Date Collected: 05/27/14 12:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			06/03/14 12:01	4
1,1,1,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/03/14 12:01	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/03/14 12:01	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			06/03/14 12:01	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			06/03/14 12:01	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/03/14 12:01	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/03/14 12:01	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/03/14 12:01	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/03/14 12:01	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/03/14 12:01	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/03/14 12:01	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/03/14 12:01	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/03/14 12:01	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/03/14 12:01	4
2-Hexanone	ND		20	5.0	ug/L			06/03/14 12:01	4
2-Butanone (MEK)	ND		40	5.3	ug/L			06/03/14 12:01	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/03/14 12:01	4
Acetone	ND		40	12	ug/L			06/03/14 12:01	4
Benzene	5.2		4.0	1.6	ug/L			06/03/14 12:01	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/03/14 12:01	4
Bromoform	ND		4.0	1.0	ug/L			06/03/14 12:01	4
Bromomethane	ND		4.0	2.8	ug/L			06/03/14 12:01	4
Carbon disulfide	ND		4.0	0.76	ug/L			06/03/14 12:01	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/03/14 12:01	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/03/14 12:01	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/03/14 12:01	4
Chloroethane	ND		4.0	1.3	ug/L			06/03/14 12:01	4
Chloroform	ND		4.0	1.4	ug/L			06/03/14 12:01	4
Chloromethane	ND		4.0	1.4	ug/L			06/03/14 12:01	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			06/03/14 12:01	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/03/14 12:01	4

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1

Lab Sample ID: 480-60592-3

Date Collected: 05/27/14 12:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		4.0	0.72	ug/L			06/03/14 12:01	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/03/14 12:01	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/03/14 12:01	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/03/14 12:01	4
Methyl acetate	ND		10	2.0	ug/L			06/03/14 12:01	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/03/14 12:01	4
Methylcyclohexane	ND		4.0	0.64	ug/L			06/03/14 12:01	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/03/14 12:01	4
Styrene	ND		4.0	2.9	ug/L			06/03/14 12:01	4
Tetrachloroethene	ND		4.0	1.4	ug/L			06/03/14 12:01	4
Toluene	ND		4.0	2.0	ug/L			06/03/14 12:01	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/03/14 12:01	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/03/14 12:01	4
Trichloroethene	ND		4.0	1.8	ug/L			06/03/14 12:01	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/03/14 12:01	4
Vinyl chloride	ND		4.0	3.6	ug/L			06/03/14 12:01	4
Xylenes, Total	11		8.0	2.6	ug/L			06/03/14 12:01	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		66 - 137		06/03/14 12:01	4
Toluene-d8 (Surr)	104		71 - 126		06/03/14 12:01	4
4-Bromofluorobenzene (Surr)	99		73 - 120		06/03/14 12:01	4
Dibromofluoromethane (Surr)	120		60 - 140		06/03/14 12:01	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.6	0.60	ug/L		05/28/14 14:19	07/01/14 15:15	1
bis (2-chloroisopropyl) ether	ND		4.6	0.48	ug/L		05/28/14 14:19	07/01/14 15:15	1
2,4,5-Trichlorophenol	ND		4.6	0.44	ug/L		05/28/14 14:19	07/01/14 15:15	1
2,4,6-Trichlorophenol	ND		4.6	0.56	ug/L		05/28/14 14:19	07/01/14 15:15	1
2,4-Dichlorophenol	ND		4.6	0.47	ug/L		05/28/14 14:19	07/01/14 15:15	1
2,4-Dimethylphenol	ND		4.6	0.46	ug/L		05/28/14 14:19	07/01/14 15:15	1
2,4-Dinitrophenol	ND		9.2	2.0	ug/L		05/28/14 14:19	07/01/14 15:15	1
2,4-Dinitrotoluene	ND		4.6	0.41	ug/L		05/28/14 14:19	07/01/14 15:15	1
2,6-Dinitrotoluene	ND		4.6	0.37	ug/L		05/28/14 14:19	07/01/14 15:15	1
2-Chloronaphthalene	ND		4.6	0.42	ug/L		05/28/14 14:19	07/01/14 15:15	1
2-Chlorophenol	ND		4.6	0.49	ug/L		05/28/14 14:19	07/01/14 15:15	1
2-Methylnaphthalene	5.0		4.6	0.55	ug/L		05/28/14 14:19	07/01/14 15:15	1
2-Methylphenol	ND		4.6	0.37	ug/L		05/28/14 14:19	07/01/14 15:15	1
2-Nitroaniline	ND		9.2	0.39	ug/L		05/28/14 14:19	07/01/14 15:15	1
2-Nitrophenol	ND		4.6	0.44	ug/L		05/28/14 14:19	07/01/14 15:15	1
3,3'-Dichlorobenzidine	ND		4.6	0.37	ug/L		05/28/14 14:19	07/01/14 15:15	1
3-Nitroaniline	ND		9.2	0.44	ug/L		05/28/14 14:19	07/01/14 15:15	1
4,6-Dinitro-2-methylphenol	ND		9.2	2.0	ug/L		05/28/14 14:19	07/01/14 15:15	1
4-Bromophenyl phenyl ether	ND		4.6	0.41	ug/L		05/28/14 14:19	07/01/14 15:15	1
4-Chloro-3-methylphenol	ND		4.6	0.41	ug/L		05/28/14 14:19	07/01/14 15:15	1
4-Chloroaniline	ND		4.6	0.54	ug/L		05/28/14 14:19	07/01/14 15:15	1
4-Chlorophenyl phenyl ether	ND		4.6	0.32	ug/L		05/28/14 14:19	07/01/14 15:15	1
4-Methylphenol	ND *		9.2	0.33	ug/L		05/28/14 14:19	07/01/14 15:15	1
4-Nitroaniline	ND		9.2	0.23	ug/L		05/28/14 14:19	07/01/14 15:15	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1

Lab Sample ID: 480-60592-3

Date Collected: 05/27/14 12:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		9.2	1.4	ug/L		05/28/14 14:19	07/01/14 15:15	1
Acenaphthene	3.5	J	4.6	0.38	ug/L		05/28/14 14:19	07/01/14 15:15	1
Acenaphthylene	1.3	J	4.6	0.35	ug/L		05/28/14 14:19	07/01/14 15:15	1
Acetophenone	ND		4.6	0.50	ug/L		05/28/14 14:19	07/01/14 15:15	1
Anthracene	ND		4.6	0.26	ug/L		05/28/14 14:19	07/01/14 15:15	1
Atrazine	ND		4.6	0.42	ug/L		05/28/14 14:19	07/01/14 15:15	1
Benzaldehyde	ND		4.6	0.25	ug/L		05/28/14 14:19	07/01/14 15:15	1
Benzo(a)anthracene	ND		4.6	0.33	ug/L		05/28/14 14:19	07/01/14 15:15	1
Benzo(a)pyrene	ND		4.6	0.43	ug/L		05/28/14 14:19	07/01/14 15:15	1
Benzo(b)fluoranthene	ND		4.6	0.31	ug/L		05/28/14 14:19	07/01/14 15:15	1
Benzo(g,h,i)perylene	ND		4.6	0.32	ug/L		05/28/14 14:19	07/01/14 15:15	1
Benzo(k)fluoranthene	ND		4.6	0.67	ug/L		05/28/14 14:19	07/01/14 15:15	1
Bis(2-chloroethoxy)methane	ND		4.6	0.32	ug/L		05/28/14 14:19	07/01/14 15:15	1
Bis(2-chloroethyl)ether	ND		4.6	0.37	ug/L		05/28/14 14:19	07/01/14 15:15	1
Bis(2-ethylhexyl) phthalate	ND		4.6	1.7	ug/L		05/28/14 14:19	07/01/14 15:15	1
Butyl benzyl phthalate	ND		4.6	0.39	ug/L		05/28/14 14:19	07/01/14 15:15	1
Caprolactam	ND		4.6	2.0	ug/L		05/28/14 14:19	07/01/14 15:15	1
Carbazole	1.3	J	4.6	0.28	ug/L		05/28/14 14:19	07/01/14 15:15	1
Chrysene	ND		4.6	0.30	ug/L		05/28/14 14:19	07/01/14 15:15	1
Di-n-butyl phthalate	ND		4.6	0.29	ug/L		05/28/14 14:19	07/01/14 15:15	1
Di-n-octyl phthalate	ND		4.6	0.43	ug/L		05/28/14 14:19	07/01/14 15:15	1
Dibenz(a,h)anthracene	ND		4.6	0.39	ug/L		05/28/14 14:19	07/01/14 15:15	1
Dibenzofuran	0.69	J	9.2	0.47	ug/L		05/28/14 14:19	07/01/14 15:15	1
Diethyl phthalate	ND		4.6	0.20	ug/L		05/28/14 14:19	07/01/14 15:15	1
Dimethyl phthalate	ND		4.6	0.33	ug/L		05/28/14 14:19	07/01/14 15:15	1
Fluoranthene	ND		4.6	0.37	ug/L		05/28/14 14:19	07/01/14 15:15	1
Fluorene	ND		4.6	0.33	ug/L		05/28/14 14:19	07/01/14 15:15	1
Hexachlorobenzene	ND		4.6	0.47	ug/L		05/28/14 14:19	07/01/14 15:15	1
Hexachlorobutadiene	ND		4.6	0.63	ug/L		05/28/14 14:19	07/01/14 15:15	1
Hexachlorocyclopentadiene	ND		4.6	0.54	ug/L		05/28/14 14:19	07/01/14 15:15	1
Hexachloroethane	ND		4.6	0.54	ug/L		05/28/14 14:19	07/01/14 15:15	1
Indeno(1,2,3-cd)pyrene	ND		4.6	0.43	ug/L		05/28/14 14:19	07/01/14 15:15	1
Isophorone	ND		4.6	0.40	ug/L		05/28/14 14:19	07/01/14 15:15	1
N-Nitrosodi-n-propylamine	ND		4.6	0.50	ug/L		05/28/14 14:19	07/01/14 15:15	1
N-Nitrosodiphenylamine	ND		4.6	0.47	ug/L		05/28/14 14:19	07/01/14 15:15	1
Naphthalene	17		4.6	0.70	ug/L		05/28/14 14:19	07/01/14 15:15	1
Nitrobenzene	ND		4.6	0.27	ug/L		05/28/14 14:19	07/01/14 15:15	1
Pentachlorophenol	ND		9.2	2.0	ug/L		05/28/14 14:19	07/01/14 15:15	1
Phenanthrene	ND		4.6	0.41	ug/L		05/28/14 14:19	07/01/14 15:15	1
Phenol	ND		4.6	0.36	ug/L		05/28/14 14:19	07/01/14 15:15	1
Pyrene	ND		4.6	0.31	ug/L		05/28/14 14:19	07/01/14 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	132		52 - 132				05/28/14 14:19	07/01/14 15:15	1
2-Fluorobiphenyl	123	X	48 - 120				05/28/14 14:19	07/01/14 15:15	1
2-Fluorophenol	83		20 - 120				05/28/14 14:19	07/01/14 15:15	1
Nitrobenzene-d5	124	X	46 - 120				05/28/14 14:19	07/01/14 15:15	1
p-Terphenyl-d14	105		67 - 150				05/28/14 14:19	07/01/14 15:15	1
Phenol-d5	58		16 - 120				05/28/14 14:19	07/01/14 15:15	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1

Lab Sample ID: 480-60592-3

Date Collected: 05/27/14 12:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/29/14 09:00	06/02/14 14:35	1
Antimony	ND		0.020	0.0068	mg/L		05/29/14 09:00	06/02/14 14:35	1
Arsenic	ND		0.015	0.0056	mg/L		05/29/14 09:00	06/02/14 14:35	1
Barium	0.086		0.0020	0.00070	mg/L		05/29/14 09:00	06/02/14 14:35	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/14 09:00	06/02/14 14:35	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/14 09:00	06/02/14 14:35	1
Calcium	318		0.50	0.10	mg/L		05/29/14 09:00	06/02/14 14:35	1
Chromium	ND		0.0040	0.0010	mg/L		05/29/14 09:00	06/02/14 14:35	1
Cobalt	ND		0.0040	0.00063	mg/L		05/29/14 09:00	06/02/14 14:35	1
Copper	0.0022	J	0.010	0.0016	mg/L		05/29/14 09:00	06/02/14 14:35	1
Iron	1.4		0.050	0.019	mg/L		05/29/14 09:00	06/02/14 14:35	1
Lead	ND		0.010	0.0030	mg/L		05/29/14 09:00	06/02/14 14:35	1
Magnesium	82.8		0.20	0.043	mg/L		05/29/14 09:00	06/02/14 14:35	1
Manganese	0.74		0.0030	0.00040	mg/L		05/29/14 09:00	06/02/14 14:35	1
Nickel	0.0025	J	0.010	0.0013	mg/L		05/29/14 09:00	06/02/14 14:35	1
Potassium	10	B	0.50	0.10	mg/L		05/29/14 09:00	06/02/14 14:35	1
Selenium	ND		0.025	0.0087	mg/L		05/29/14 09:00	06/02/14 14:35	1
Silver	ND		0.0060	0.0017	mg/L		05/29/14 09:00	06/02/14 14:35	1
Sodium	642		1.0	0.32	mg/L		05/29/14 09:00	06/02/14 14:35	1
Thallium	ND		0.020	0.010	mg/L		05/29/14 09:00	06/02/14 14:35	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/14 09:00	06/02/14 14:35	1
Zinc	0.0061	J	0.010	0.0015	mg/L		05/29/14 09:00	06/02/14 14:35	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/29/14 09:30	05/29/14 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	403		100	40.0	mg/L			06/03/14 08:50	10
Nitrate as N	0.054		0.050	0.020	mg/L			05/28/14 19:12	1
Cyanide, Total	0.020		0.010	0.0050	mg/L		05/30/14 20:55	06/02/14 11:19	1
Sulfate	599		150	45.0	mg/L			06/03/14 09:53	30
Chloride	1100		50.0	17.0	mg/L			06/03/14 09:20	50
Total Dissolved Solids	3140		40.0	16.0	mg/L			05/29/14 23:37	1

Client Sample ID: MW-26S

Lab Sample ID: 480-60592-4

Date Collected: 05/27/14 14:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			06/03/14 12:27	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/03/14 12:27	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/03/14 12:27	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			06/03/14 12:27	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			06/03/14 12:27	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/03/14 12:27	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/03/14 12:27	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/03/14 12:27	4

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: MW-26S

Lab Sample ID: 480-60592-4

Date Collected: 05/27/14 14:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/03/14 12:27	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/03/14 12:27	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/03/14 12:27	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/03/14 12:27	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/03/14 12:27	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/03/14 12:27	4
2-Hexanone	ND		20	5.0	ug/L			06/03/14 12:27	4
2-Butanone (MEK)	ND		40	5.3	ug/L			06/03/14 12:27	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/03/14 12:27	4
Acetone	ND		40	12	ug/L			06/03/14 12:27	4
Benzene	ND		4.0	1.6	ug/L			06/03/14 12:27	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/03/14 12:27	4
Bromoform	ND		4.0	1.0	ug/L			06/03/14 12:27	4
Bromomethane	ND		4.0	2.8	ug/L			06/03/14 12:27	4
Carbon disulfide	10		4.0	0.76	ug/L			06/03/14 12:27	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/03/14 12:27	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/03/14 12:27	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/03/14 12:27	4
Chloroethane	ND		4.0	1.3	ug/L			06/03/14 12:27	4
Chloroform	ND		4.0	1.4	ug/L			06/03/14 12:27	4
Chloromethane	ND		4.0	1.4	ug/L			06/03/14 12:27	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			06/03/14 12:27	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/03/14 12:27	4
Cyclohexane	ND		4.0	0.72	ug/L			06/03/14 12:27	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/03/14 12:27	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/03/14 12:27	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/03/14 12:27	4
Methyl acetate	ND		10	2.0	ug/L			06/03/14 12:27	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/03/14 12:27	4
Methylcyclohexane	ND		4.0	0.64	ug/L			06/03/14 12:27	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/03/14 12:27	4
Styrene	ND		4.0	2.9	ug/L			06/03/14 12:27	4
Tetrachloroethene	ND		4.0	1.4	ug/L			06/03/14 12:27	4
Toluene	ND		4.0	2.0	ug/L			06/03/14 12:27	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/03/14 12:27	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/03/14 12:27	4
Trichloroethene	ND		4.0	1.8	ug/L			06/03/14 12:27	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/03/14 12:27	4
Vinyl chloride	ND		4.0	3.6	ug/L			06/03/14 12:27	4
Xylenes, Total	ND		8.0	2.6	ug/L			06/03/14 12:27	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		66 - 137		06/03/14 12:27	4
Toluene-d8 (Surr)	103		71 - 126		06/03/14 12:27	4
4-Bromofluorobenzene (Surr)	97		73 - 120		06/03/14 12:27	4
Dibromofluoromethane (Surr)	117		60 - 140		06/03/14 12:27	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.7	0.62	ug/L		05/28/14 14:19	07/01/14 15:39	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: MW-26S

Lab Sample ID: 480-60592-4

Date Collected: 05/27/14 14:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		05/28/14 14:19	07/01/14 15:39	1
2,4,5-Trichlorophenol	ND		4.7	0.46	ug/L		05/28/14 14:19	07/01/14 15:39	1
2,4,6-Trichlorophenol	ND		4.7	0.58	ug/L		05/28/14 14:19	07/01/14 15:39	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		05/28/14 14:19	07/01/14 15:39	1
2,4-Dimethylphenol	ND		4.7	0.47	ug/L		05/28/14 14:19	07/01/14 15:39	1
2,4-Dinitrophenol	ND		9.5	2.1	ug/L		05/28/14 14:19	07/01/14 15:39	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		05/28/14 14:19	07/01/14 15:39	1
2,6-Dinitrotoluene	ND		4.7	0.38	ug/L		05/28/14 14:19	07/01/14 15:39	1
2-Chloronaphthalene	ND		4.7	0.44	ug/L		05/28/14 14:19	07/01/14 15:39	1
2-Chlorophenol	ND		4.7	0.50	ug/L		05/28/14 14:19	07/01/14 15:39	1
2-Methylnaphthalene	ND		4.7	0.57	ug/L		05/28/14 14:19	07/01/14 15:39	1
2-Methylphenol	ND		4.7	0.38	ug/L		05/28/14 14:19	07/01/14 15:39	1
2-Nitroaniline	ND		9.5	0.40	ug/L		05/28/14 14:19	07/01/14 15:39	1
2-Nitrophenol	ND		4.7	0.46	ug/L		05/28/14 14:19	07/01/14 15:39	1
3,3'-Dichlorobenzidine	ND		4.7	0.38	ug/L		05/28/14 14:19	07/01/14 15:39	1
3-Nitroaniline	ND		9.5	0.46	ug/L		05/28/14 14:19	07/01/14 15:39	1
4,6-Dinitro-2-methylphenol	ND		9.5	2.1	ug/L		05/28/14 14:19	07/01/14 15:39	1
4-Bromophenyl phenyl ether	ND		4.7	0.43	ug/L		05/28/14 14:19	07/01/14 15:39	1
4-Chloro-3-methylphenol	ND		4.7	0.43	ug/L		05/28/14 14:19	07/01/14 15:39	1
4-Chloroaniline	ND		4.7	0.56	ug/L		05/28/14 14:19	07/01/14 15:39	1
4-Chlorophenyl phenyl ether	ND		4.7	0.33	ug/L		05/28/14 14:19	07/01/14 15:39	1
4-Methylphenol	ND *		9.5	0.34	ug/L		05/28/14 14:19	07/01/14 15:39	1
4-Nitroaniline	ND		9.5	0.24	ug/L		05/28/14 14:19	07/01/14 15:39	1
4-Nitrophenol	ND		9.5	1.4	ug/L		05/28/14 14:19	07/01/14 15:39	1
Acenaphthene	0.91	J	4.7	0.39	ug/L		05/28/14 14:19	07/01/14 15:39	1
Acenaphthylene	ND		4.7	0.36	ug/L		05/28/14 14:19	07/01/14 15:39	1
Acetophenone	ND		4.7	0.51	ug/L		05/28/14 14:19	07/01/14 15:39	1
Anthracene	ND		4.7	0.27	ug/L		05/28/14 14:19	07/01/14 15:39	1
Atrazine	ND		4.7	0.44	ug/L		05/28/14 14:19	07/01/14 15:39	1
Benzaldehyde	ND		4.7	0.25	ug/L		05/28/14 14:19	07/01/14 15:39	1
Benzo(a)anthracene	ND		4.7	0.34	ug/L		05/28/14 14:19	07/01/14 15:39	1
Benzo(a)pyrene	ND		4.7	0.45	ug/L		05/28/14 14:19	07/01/14 15:39	1
Benzo(b)fluoranthene	ND		4.7	0.32	ug/L		05/28/14 14:19	07/01/14 15:39	1
Benzo(g,h,i)perylene	ND		4.7	0.33	ug/L		05/28/14 14:19	07/01/14 15:39	1
Benzo(k)fluoranthene	ND		4.7	0.69	ug/L		05/28/14 14:19	07/01/14 15:39	1
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		05/28/14 14:19	07/01/14 15:39	1
Bis(2-chloroethyl)ether	ND		4.7	0.38	ug/L		05/28/14 14:19	07/01/14 15:39	1
Bis(2-ethylhexyl) phthalate	ND		4.7	1.7	ug/L		05/28/14 14:19	07/01/14 15:39	1
Butyl benzyl phthalate	ND		4.7	0.40	ug/L		05/28/14 14:19	07/01/14 15:39	1
Caprolactam	2.2	J	4.7	2.1	ug/L		05/28/14 14:19	07/01/14 15:39	1
Carbazole	ND		4.7	0.28	ug/L		05/28/14 14:19	07/01/14 15:39	1
Chrysene	ND		4.7	0.31	ug/L		05/28/14 14:19	07/01/14 15:39	1
Di-n-butyl phthalate	ND		4.7	0.29	ug/L		05/28/14 14:19	07/01/14 15:39	1
Di-n-octyl phthalate	ND		4.7	0.45	ug/L		05/28/14 14:19	07/01/14 15:39	1
Dibenz(a,h)anthracene	ND		4.7	0.40	ug/L		05/28/14 14:19	07/01/14 15:39	1
Dibenzofuran	ND		9.5	0.48	ug/L		05/28/14 14:19	07/01/14 15:39	1
Diethyl phthalate	ND		4.7	0.21	ug/L		05/28/14 14:19	07/01/14 15:39	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		05/28/14 14:19	07/01/14 15:39	1
Fluoranthene	ND		4.7	0.38	ug/L		05/28/14 14:19	07/01/14 15:39	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: MW-26S

Lab Sample ID: 480-60592-4

Date Collected: 05/27/14 14:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		4.7	0.34	ug/L		05/28/14 14:19	07/01/14 15:39	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		05/28/14 14:19	07/01/14 15:39	1
Hexachlorobutadiene	ND		4.7	0.65	ug/L		05/28/14 14:19	07/01/14 15:39	1
Hexachlorocyclopentadiene	ND		4.7	0.56	ug/L		05/28/14 14:19	07/01/14 15:39	1
Hexachloroethane	ND		4.7	0.56	ug/L		05/28/14 14:19	07/01/14 15:39	1
Indeno(1,2,3-cd)pyrene	ND		4.7	0.45	ug/L		05/28/14 14:19	07/01/14 15:39	1
Isophorone	ND		4.7	0.41	ug/L		05/28/14 14:19	07/01/14 15:39	1
N-Nitrosodi-n-propylamine	ND		4.7	0.51	ug/L		05/28/14 14:19	07/01/14 15:39	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		05/28/14 14:19	07/01/14 15:39	1
Naphthalene	ND		4.7	0.72	ug/L		05/28/14 14:19	07/01/14 15:39	1
Nitrobenzene	ND		4.7	0.28	ug/L		05/28/14 14:19	07/01/14 15:39	1
Pentachlorophenol	ND		9.5	2.1	ug/L		05/28/14 14:19	07/01/14 15:39	1
Phenanthrene	ND		4.7	0.42	ug/L		05/28/14 14:19	07/01/14 15:39	1
Phenol	ND		4.7	0.37	ug/L		05/28/14 14:19	07/01/14 15:39	1
Pyrene	ND		4.7	0.32	ug/L		05/28/14 14:19	07/01/14 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	131		52 - 132				05/28/14 14:19	07/01/14 15:39	1
2-Fluorobiphenyl	124	X	48 - 120				05/28/14 14:19	07/01/14 15:39	1
2-Fluorophenol	86		20 - 120				05/28/14 14:19	07/01/14 15:39	1
Nitrobenzene-d5	118		46 - 120				05/28/14 14:19	07/01/14 15:39	1
p-Terphenyl-d14	109		67 - 150				05/28/14 14:19	07/01/14 15:39	1
Phenol-d5	59		16 - 120				05/28/14 14:19	07/01/14 15:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.074	J ^	0.20	0.060	mg/L		05/29/14 09:00	05/30/14 17:13	1
Antimony	ND		0.020	0.0068	mg/L		05/29/14 09:00	05/30/14 17:13	1
Arsenic	0.0083	J	0.015	0.0056	mg/L		05/29/14 09:00	05/30/14 17:13	1
Barium	0.18		0.0020	0.00070	mg/L		05/29/14 09:00	05/30/14 17:13	1
Beryllium	ND	^	0.0020	0.00030	mg/L		05/29/14 09:00	05/30/14 17:13	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/14 09:00	05/30/14 17:13	1
Calcium	263	^	0.50	0.10	mg/L		05/29/14 09:00	05/30/14 17:13	1
Chromium	0.0019	J	0.0040	0.0010	mg/L		05/29/14 09:00	05/30/14 17:13	1
Cobalt	0.00065	J	0.0040	0.00063	mg/L		05/29/14 09:00	05/30/14 17:13	1
Copper	ND		0.010	0.0016	mg/L		05/29/14 09:00	05/30/14 17:13	1
Iron	7.8	^	0.050	0.019	mg/L		05/29/14 09:00	05/30/14 17:13	1
Lead	ND		0.010	0.0030	mg/L		05/29/14 09:00	05/30/14 17:13	1
Magnesium	93.9		0.20	0.043	mg/L		05/29/14 09:00	05/30/14 17:13	1
Manganese	1.4		0.0030	0.00040	mg/L		05/29/14 09:00	05/30/14 17:13	1
Nickel	0.0026	J	0.010	0.0013	mg/L		05/29/14 09:00	05/30/14 17:13	1
Potassium	14.5	B	0.50	0.10	mg/L		05/29/14 09:00	05/30/14 17:13	1
Selenium	0.0093	J	0.025	0.0087	mg/L		05/29/14 09:00	05/30/14 17:13	1
Silver	ND		0.0060	0.0017	mg/L		05/29/14 09:00	05/30/14 17:13	1
Sodium	780	^	1.0	0.32	mg/L		05/29/14 09:00	05/30/14 17:13	1
Thallium	ND		0.020	0.010	mg/L		05/29/14 09:00	05/30/14 17:13	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/14 09:00	05/30/14 17:13	1
Zinc	0.010		0.010	0.0015	mg/L		05/29/14 09:00	05/30/14 17:13	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: MW-26S

Lab Sample ID: 480-60592-4

Date Collected: 05/27/14 14:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/29/14 09:30	05/29/14 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	495	B	100	40.0	mg/L			06/03/14 09:55	10
Nitrate as N	0.22		0.050	0.020	mg/L			05/28/14 19:13	1
Cyanide, Total	0.047		0.010	0.0050	mg/L		06/04/14 19:04	06/05/14 09:51	1
Sulfate	568		150	45.0	mg/L			06/03/14 09:53	30
Chloride	1270		50.0	17.0	mg/L			06/03/14 10:34	50
Total Dissolved Solids	3440		40.0	16.0	mg/L			05/28/14 21:07	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-60592-5

Date Collected: 05/27/14 00:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/03/14 12:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/14 12:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/03/14 12:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/03/14 12:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/03/14 12:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/03/14 12:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/14 12:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/03/14 12:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/14 12:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/14 12:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/03/14 12:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/03/14 12:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/14 12:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/14 12:52	1
2-Hexanone	ND		5.0	1.2	ug/L			06/03/14 12:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/03/14 12:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/03/14 12:52	1
Acetone	ND		10	3.0	ug/L			06/03/14 12:52	1
Benzene	ND		1.0	0.41	ug/L			06/03/14 12:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/03/14 12:52	1
Bromoform	ND		1.0	0.26	ug/L			06/03/14 12:52	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/14 12:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/03/14 12:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/03/14 12:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/14 12:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/03/14 12:52	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/14 12:52	1
Chloroform	ND		1.0	0.34	ug/L			06/03/14 12:52	1
Chloromethane	ND		1.0	0.35	ug/L			06/03/14 12:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/03/14 12:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/03/14 12:52	1
Cyclohexane	ND		1.0	0.18	ug/L			06/03/14 12:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/14 12:52	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
 Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-60592-5

Date Collected: 05/27/14 00:00

Matrix: Water

Date Received: 05/27/14 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/14 12:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/03/14 12:52	1
Methyl acetate	ND		2.5	0.50	ug/L			06/03/14 12:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/14 12:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/03/14 12:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/03/14 12:52	1
Styrene	ND		1.0	0.73	ug/L			06/03/14 12:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/03/14 12:52	1
Toluene	ND		1.0	0.51	ug/L			06/03/14 12:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/14 12:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/03/14 12:52	1
Trichloroethene	ND		1.0	0.46	ug/L			06/03/14 12:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/14 12:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/03/14 12:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/03/14 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		66 - 137		06/03/14 12:52	1
Toluene-d8 (Surr)	102		71 - 126		06/03/14 12:52	1
4-Bromofluorobenzene (Surr)	95		73 - 120		06/03/14 12:52	1
Dibromofluoromethane (Surr)	118		60 - 140		06/03/14 12:52	1

Surrogate Summary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (71-125)	12DCE (64-126)	BFB (72-126)	DBFM (60-140)
480-60592-1	SEEP-1-0-3"	101	100	100	99
480-60592-2	SEEP-1-12-14"	103	100	99	102
LCS 480-184378/6	Lab Control Sample	102	91	101	100
MB 480-184378/7	Method Blank	99	93	97	97

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-60592-3	SEEP-1	120	104	99	120
480-60592-4	MW-26S	118	103	97	117
480-60592-5	Trip Blank	119	102	95	118
LCS 480-185304/5	Lab Control Sample	113	104	102	116
MB 480-185304/6	Method Blank	115	105	101	115

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (34-132)	PHL (11-120)	TPH (65-153)	TBP (39-146)	FBP (37-120)	2FP (18-120)
480-60592-1	SEEP-1-0-3"	81	85	87	79	90	79
480-60592-2	SEEP-1-12-14"	69	78	71	76	75	73
LCS 480-184529/2-A	Lab Control Sample	83	83	93	99	85	80
MB 480-184529/1-A	Method Blank	88	87	91	94	89	83

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

TestAmerica Buffalo

Surrogate Summary

Client: GEI Consultants, Inc.
 Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-132)	FBP (48-120)	2FP (20-120)	NBZ (46-120)	TPH (67-150)	PHL (16-120)
480-60592-3	SEEP-1	132	123 X	83	124 X	105	58
480-60592-4	MW-26S	131	124 X	86	118	109	59
LCS 480-184424/2-A	Lab Control Sample	95	86	78	91	97	65
MB 480-184424/1-A	Method Blank	131	131 X	93	132 X	144	64

Surrogate Legend

TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 TPH = p-Terphenyl-d14
 PHL = Phenol-d5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (46-175)	DCB1 (47-176)
480-60592-1	SEEP-1-0-3"	104	128
480-60592-2	SEEP-1-12-14"	133	145
LCS 480-184665/2-A	Lab Control Sample	121	151
MB 480-184665/1-A	Method Blank	119	131

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-184378/7

Matrix: Solid

Analysis Batch: 184378

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			05/28/14 14:22	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg			05/28/14 14:22	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg			05/28/14 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg			05/28/14 14:22	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg			05/28/14 14:22	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg			05/28/14 14:22	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg			05/28/14 14:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg			05/28/14 14:22	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg			05/28/14 14:22	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg			05/28/14 14:22	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			05/28/14 14:22	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg			05/28/14 14:22	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg			05/28/14 14:22	1
2-Hexanone	ND		25	2.5	ug/Kg			05/28/14 14:22	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg			05/28/14 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg			05/28/14 14:22	1
Acetone	ND		25	4.2	ug/Kg			05/28/14 14:22	1
Benzene	ND		5.0	0.25	ug/Kg			05/28/14 14:22	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg			05/28/14 14:22	1
Bromoform	ND		5.0	2.5	ug/Kg			05/28/14 14:22	1
Bromomethane	ND		5.0	0.45	ug/Kg			05/28/14 14:22	1
Carbon disulfide	ND		5.0	2.5	ug/Kg			05/28/14 14:22	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg			05/28/14 14:22	1
Chlorobenzene	ND		5.0	0.66	ug/Kg			05/28/14 14:22	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg			05/28/14 14:22	1
Chloroethane	ND		5.0	1.1	ug/Kg			05/28/14 14:22	1
Chloroform	ND		5.0	0.31	ug/Kg			05/28/14 14:22	1
Chloromethane	ND		5.0	0.30	ug/Kg			05/28/14 14:22	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg			05/28/14 14:22	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg			05/28/14 14:22	1
Cyclohexane	ND		5.0	0.70	ug/Kg			05/28/14 14:22	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg			05/28/14 14:22	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg			05/28/14 14:22	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			05/28/14 14:22	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg			05/28/14 14:22	1
Methyl acetate	ND		5.0	3.0	ug/Kg			05/28/14 14:22	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg			05/28/14 14:22	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg			05/28/14 14:22	1
Methylene Chloride	ND		5.0	2.3	ug/Kg			05/28/14 14:22	1
Styrene	ND		5.0	0.25	ug/Kg			05/28/14 14:22	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			05/28/14 14:22	1
Toluene	ND		5.0	0.38	ug/Kg			05/28/14 14:22	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg			05/28/14 14:22	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg			05/28/14 14:22	1
Trichloroethene	ND		5.0	1.1	ug/Kg			05/28/14 14:22	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg			05/28/14 14:22	1
Vinyl chloride	ND		5.0	0.61	ug/Kg			05/28/14 14:22	1
Xylenes, Total	ND		10	0.84	ug/Kg			05/28/14 14:22	1

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-184378/7

Matrix: Solid

Analysis Batch: 184378

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		64 - 126		05/28/14 14:22	1
Toluene-d8 (Surr)	99		71 - 125		05/28/14 14:22	1
4-Bromofluorobenzene (Surr)	97		72 - 126		05/28/14 14:22	1
Dibromofluoromethane (Surr)	97		60 - 140		05/28/14 14:22	1

Lab Sample ID: LCS 480-184378/6

Matrix: Solid

Analysis Batch: 184378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	47.4		ug/Kg		95	59 - 125
1,2-Dichlorobenzene	50.0	51.0		ug/Kg		102	75 - 120
1,2-Dichloroethane	50.0	45.3		ug/Kg		91	77 - 122
Benzene	50.0	48.2		ug/Kg		96	79 - 127
Chlorobenzene	50.0	51.5		ug/Kg		103	76 - 124
cis-1,2-Dichloroethene	50.0	49.3		ug/Kg		99	81 - 117
Ethylbenzene	50.0	51.1		ug/Kg		102	80 - 120
Methyl tert-butyl ether	50.0	48.3		ug/Kg		97	63 - 125
Tetrachloroethene	50.0	50.9		ug/Kg		102	74 - 122
Toluene	50.0	50.9		ug/Kg		102	74 - 128
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	78 - 126
Trichloroethene	50.0	47.4		ug/Kg		95	77 - 129

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		64 - 126
Toluene-d8 (Surr)	102		71 - 125
4-Bromofluorobenzene (Surr)	101		72 - 126
Dibromofluoromethane (Surr)	100		60 - 140

Lab Sample ID: MB 480-185304/6

Matrix: Water

Analysis Batch: 185304

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/03/14 04:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/14 04:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/03/14 04:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/03/14 04:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/03/14 04:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/03/14 04:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/14 04:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/03/14 04:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/14 04:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/03/14 04:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/03/14 04:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/14 04:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/14 04:22	1

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-185304/6

Matrix: Water

Analysis Batch: 185304

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Hexanone	ND		5.0	1.2	ug/L			06/03/14 04:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/03/14 04:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/03/14 04:22	1
Acetone	ND		10	3.0	ug/L			06/03/14 04:22	1
Benzene	ND		1.0	0.41	ug/L			06/03/14 04:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/03/14 04:22	1
Bromoform	ND		1.0	0.26	ug/L			06/03/14 04:22	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/14 04:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/03/14 04:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/03/14 04:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/14 04:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/03/14 04:22	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/14 04:22	1
Chloroform	ND		1.0	0.34	ug/L			06/03/14 04:22	1
Chloromethane	ND		1.0	0.35	ug/L			06/03/14 04:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/03/14 04:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/03/14 04:22	1
Cyclohexane	ND		1.0	0.18	ug/L			06/03/14 04:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/14 04:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/14 04:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/14 04:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/03/14 04:22	1
Methyl acetate	ND		2.5	0.50	ug/L			06/03/14 04:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/14 04:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/03/14 04:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/03/14 04:22	1
Styrene	ND		1.0	0.73	ug/L			06/03/14 04:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/03/14 04:22	1
Toluene	ND		1.0	0.51	ug/L			06/03/14 04:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/14 04:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/03/14 04:22	1
Trichloroethene	ND		1.0	0.46	ug/L			06/03/14 04:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/14 04:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/03/14 04:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/03/14 04:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	115		66 - 137		06/03/14 04:22	1
Toluene-d8 (Surr)	105		71 - 126		06/03/14 04:22	1
4-Bromofluorobenzene (Surr)	101		73 - 120		06/03/14 04:22	1
Dibromofluoromethane (Surr)	115		60 - 140		06/03/14 04:22	1

Lab Sample ID: LCS 480-185304/5

Matrix: Water

Analysis Batch: 185304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethane	25.0	25.2		ug/L		101	71 - 129

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-185304/5

Matrix: Water

Analysis Batch: 185304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	24.6		ug/L		98	58 - 121
1,2-Dichlorobenzene	25.0	21.8		ug/L		87	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 127
Benzene	25.0	24.7		ug/L		99	71 - 124
Chlorobenzene	25.0	22.6		ug/L		90	72 - 120
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124
Ethylbenzene	25.0	23.1		ug/L		92	77 - 123
Methyl tert-butyl ether	25.0	25.3		ug/L		101	64 - 127
Tetrachloroethene	25.0	22.6		ug/L		91	74 - 122
Toluene	25.0	23.2		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
Trichloroethene	25.0	25.1		ug/L		100	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	116		60 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-184424/1-A

Matrix: Water

Analysis Batch: 190710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		05/28/14 14:19	07/01/14 14:51	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/28/14 14:19	07/01/14 14:51	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/28/14 14:19	07/01/14 14:51	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/28/14 14:19	07/01/14 14:51	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/28/14 14:19	07/01/14 14:51	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/28/14 14:19	07/01/14 14:51	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/28/14 14:19	07/01/14 14:51	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/28/14 14:19	07/01/14 14:51	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/28/14 14:19	07/01/14 14:51	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/28/14 14:19	07/01/14 14:51	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/28/14 14:19	07/01/14 14:51	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/28/14 14:19	07/01/14 14:51	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/28/14 14:19	07/01/14 14:51	1
2-Nitroaniline	ND		10	0.42	ug/L		05/28/14 14:19	07/01/14 14:51	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/28/14 14:19	07/01/14 14:51	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/28/14 14:19	07/01/14 14:51	1
3-Nitroaniline	ND		10	0.48	ug/L		05/28/14 14:19	07/01/14 14:51	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/28/14 14:19	07/01/14 14:51	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/28/14 14:19	07/01/14 14:51	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/28/14 14:19	07/01/14 14:51	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/28/14 14:19	07/01/14 14:51	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/28/14 14:19	07/01/14 14:51	1

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-184424/1-A

Matrix: Water

Analysis Batch: 190710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184424

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Methylphenol	ND		10	0.36	ug/L		05/28/14 14:19	07/01/14 14:51	1
4-Nitroaniline	ND		10	0.25	ug/L		05/28/14 14:19	07/01/14 14:51	1
4-Nitrophenol	ND		10	1.5	ug/L		05/28/14 14:19	07/01/14 14:51	1
Acenaphthene	ND		5.0	0.41	ug/L		05/28/14 14:19	07/01/14 14:51	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/28/14 14:19	07/01/14 14:51	1
Acetophenone	ND		5.0	0.54	ug/L		05/28/14 14:19	07/01/14 14:51	1
Anthracene	ND		5.0	0.28	ug/L		05/28/14 14:19	07/01/14 14:51	1
Atrazine	ND		5.0	0.46	ug/L		05/28/14 14:19	07/01/14 14:51	1
Benzaldehyde	0.615	J	5.0	0.27	ug/L		05/28/14 14:19	07/01/14 14:51	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		05/28/14 14:19	07/01/14 14:51	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		05/28/14 14:19	07/01/14 14:51	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		05/28/14 14:19	07/01/14 14:51	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		05/28/14 14:19	07/01/14 14:51	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		05/28/14 14:19	07/01/14 14:51	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/28/14 14:19	07/01/14 14:51	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/28/14 14:19	07/01/14 14:51	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.8	ug/L		05/28/14 14:19	07/01/14 14:51	1
Butyl benzyl phthalate	ND		5.0	0.42	ug/L		05/28/14 14:19	07/01/14 14:51	1
Caprolactam	ND		5.0	2.2	ug/L		05/28/14 14:19	07/01/14 14:51	1
Carbazole	ND		5.0	0.30	ug/L		05/28/14 14:19	07/01/14 14:51	1
Chrysene	ND		5.0	0.33	ug/L		05/28/14 14:19	07/01/14 14:51	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/28/14 14:19	07/01/14 14:51	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/28/14 14:19	07/01/14 14:51	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/28/14 14:19	07/01/14 14:51	1
Dibenzofuran	ND		10	0.51	ug/L		05/28/14 14:19	07/01/14 14:51	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/28/14 14:19	07/01/14 14:51	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/28/14 14:19	07/01/14 14:51	1
Fluoranthene	ND		5.0	0.40	ug/L		05/28/14 14:19	07/01/14 14:51	1
Fluorene	ND		5.0	0.36	ug/L		05/28/14 14:19	07/01/14 14:51	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/28/14 14:19	07/01/14 14:51	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/28/14 14:19	07/01/14 14:51	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/28/14 14:19	07/01/14 14:51	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/28/14 14:19	07/01/14 14:51	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		05/28/14 14:19	07/01/14 14:51	1
Isophorone	ND		5.0	0.43	ug/L		05/28/14 14:19	07/01/14 14:51	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/28/14 14:19	07/01/14 14:51	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/28/14 14:19	07/01/14 14:51	1
Naphthalene	ND		5.0	0.76	ug/L		05/28/14 14:19	07/01/14 14:51	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/28/14 14:19	07/01/14 14:51	1
Pentachlorophenol	ND		10	2.2	ug/L		05/28/14 14:19	07/01/14 14:51	1
Phenanthrene	ND		5.0	0.44	ug/L		05/28/14 14:19	07/01/14 14:51	1
Phenol	ND		5.0	0.39	ug/L		05/28/14 14:19	07/01/14 14:51	1
Pyrene	ND		5.0	0.34	ug/L		05/28/14 14:19	07/01/14 14:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	131		52 - 132	05/28/14 14:19	07/01/14 14:51	1
Nitrobenzene-d5	132	X	46 - 120	05/28/14 14:19	07/01/14 14:51	1
2-Fluorobiphenyl	131	X	48 - 120	05/28/14 14:19	07/01/14 14:51	1

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-184424/1-A

Matrix: Water

Analysis Batch: 190710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184424

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>p</i> -Terphenyl-d14	144		67 - 150	05/28/14 14:19	07/01/14 14:51	1
2-Fluorophenol	93		20 - 120	05/28/14 14:19	07/01/14 14:51	1
Phenol-d5	64		16 - 120	05/28/14 14:19	07/01/14 14:51	1

Lab Sample ID: LCS 480-184424/2-A

Matrix: Water

Analysis Batch: 190112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 184424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
2,4-Dinitrotoluene	32.0	25.1		ug/L		79	65 - 154	
2-Chlorophenol	32.0	24.0		ug/L		75	48 - 120	
4-Chloro-3-methylphenol	32.0	25.4		ug/L		80	64 - 120	
4-Nitrophenol	64.0	38.6		ug/L		60	16 - 120	
Acenaphthene	32.0	23.3		ug/L		73	60 - 120	
Atrazine	64.0	66.3	E	ug/L		104	56 - 179	
Bis(2-ethylhexyl) phthalate	32.0	26.7		ug/L		84	53 - 158	
Fluorene	32.0	22.6		ug/L		70	55 - 143	
Hexachloroethane	32.0	19.5		ug/L		61	14 - 101	
N-Nitrosodi-n-propylamine	32.0	24.5		ug/L		77	56 - 120	
Pentachlorophenol	64.0	45.1		ug/L		71	39 - 136	
Phenol	32.0	16.7		ug/L		52	17 - 120	
Pyrene	32.0	24.2		ug/L		76	58 - 136	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	95		52 - 132
Nitrobenzene-d5	91		46 - 120
2-Fluorobiphenyl	86		48 - 120
<i>p</i> -Terphenyl-d14	97		67 - 150
2-Fluorophenol	78		20 - 120
Phenol-d5	65		16 - 120

Lab Sample ID: MB 480-184529/1-A

Matrix: Solid

Analysis Batch: 185382

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184529

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biphenyl	ND		170	10	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
bis (2-chloroisopropyl) ether	ND		170	18	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2,4,5-Trichlorophenol	ND		170	37	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2,4,6-Trichlorophenol	ND		170	11	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2,4-Dichlorophenol	ND		170	8.8	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2,4-Dimethylphenol	ND		170	45	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2,4-Dinitrophenol	ND		330	59	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2,4-Dinitrotoluene	ND		170	26	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2,6-Dinitrotoluene	ND		170	41	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2-Chloronaphthalene	ND		170	11	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2-Chlorophenol	ND		170	8.6	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2-Methylnaphthalene	ND		170	2.0	ug/Kg		05/29/14 07:50	06/03/14 15:40	1

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-184529/1-A

Matrix: Solid

Analysis Batch: 185382

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184529

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylphenol	ND		170	5.2	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2-Nitroaniline	ND		330	54	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
2-Nitrophenol	ND		170	7.7	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
3,3'-Dichlorobenzidine	ND		170	150	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
3-Nitroaniline	ND		330	39	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
4,6-Dinitro-2-methylphenol	ND		330	58	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
4-Bromophenyl phenyl ether	ND		170	54	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
4-Chloro-3-methylphenol	ND		170	6.9	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
4-Chloroaniline	ND		170	49	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
4-Methylphenol	ND		330	9.4	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
4-Nitroaniline	ND		330	19	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
4-Nitrophenol	ND		330	41	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Acenaphthene	ND		170	2.0	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Acenaphthylene	ND		170	1.4	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Acetophenone	ND		170	8.6	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Anthracene	ND		170	4.3	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Atrazine	ND		170	7.5	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Benzaldehyde	ND		170	18	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Benzo[a]anthracene	ND		170	2.9	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Benzo[a]pyrene	ND		170	4.1	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Benzo[b]fluoranthene	ND		170	3.3	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Benzo[g,h,i]perylene	ND		170	2.0	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Benzo[k]fluoranthene	ND		170	1.9	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Bis(2-chloroethoxy)methane	ND		170	9.2	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Bis(2-chloroethyl)ether	ND		170	15	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Bis(2-ethylhexyl) phthalate	ND		170	54	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Butyl benzyl phthalate	ND		170	45	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Caprolactam	ND		170	73	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Carbazole	ND		170	1.9	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Chrysene	ND		170	1.7	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Di-n-butyl phthalate	ND		170	58	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Di-n-octyl phthalate	ND		170	3.9	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Dibenzofuran	ND		170	1.8	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Diethyl phthalate	ND		170	5.1	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Dimethyl phthalate	ND		170	4.4	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Fluoranthene	ND		170	2.4	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Fluorene	ND		170	3.9	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Hexachlorobenzene	ND		170	8.4	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Hexachlorobutadiene	ND		170	8.6	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Hexachlorocyclopentadiene	ND		170	51	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Hexachloroethane	ND		170	13	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Indeno[1,2,3-cd]pyrene	ND		170	4.7	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Isophorone	ND		170	8.4	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
N-Nitrosodi-n-propylamine	ND		170	13	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
N-Nitrosodiphenylamine	ND		170	9.2	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Naphthalene	ND		170	2.8	ug/Kg		05/29/14 07:50	06/03/14 15:40	1

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-184529/1-A

Matrix: Solid

Analysis Batch: 185382

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		170	7.5	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Pentachlorophenol	ND		330	58	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Phenanthrene	ND		170	3.5	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Phenol	ND		170	18	ug/Kg		05/29/14 07:50	06/03/14 15:40	1
Pyrene	ND		170	1.1	ug/Kg		05/29/14 07:50	06/03/14 15:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		39 - 146	05/29/14 07:50	06/03/14 15:40	1
Nitrobenzene-d5 (Surr)	88		34 - 132	05/29/14 07:50	06/03/14 15:40	1
2-Fluorobiphenyl	89		37 - 120	05/29/14 07:50	06/03/14 15:40	1
p-Terphenyl-d14 (Surr)	91		65 - 153	05/29/14 07:50	06/03/14 15:40	1
2-Fluorophenol (Surr)	83		18 - 120	05/29/14 07:50	06/03/14 15:40	1
Phenol-d5 (Surr)	87		11 - 120	05/29/14 07:50	06/03/14 15:40	1

Lab Sample ID: LCS 480-184529/2-A

Matrix: Solid

Analysis Batch: 185382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 184529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	1630	1780		ug/Kg		109	55 - 125
2-Chlorophenol	1630	1330		ug/Kg		82	38 - 120
4-Chloro-3-methylphenol	1630	1550		ug/Kg		95	49 - 125
4-Nitrophenol	3260	3340		ug/Kg		103	43 - 137
Acenaphthene	1630	1490		ug/Kg		91	53 - 120
Atrazine	3260	3340		ug/Kg		103	60 - 164
Bis(2-ethylhexyl) phthalate	1630	1520		ug/Kg		93	61 - 133
Fluorene	1630	1500		ug/Kg		92	63 - 126
Hexachloroethane	1630	1260		ug/Kg		77	41 - 120
N-Nitrosodi-n-propylamine	1630	1360		ug/Kg		84	46 - 120
Pentachlorophenol	3260	3220		ug/Kg		99	33 - 136
Phenol	1630	1390		ug/Kg		85	36 - 120
Pyrene	1630	1490		ug/Kg		91	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	99		39 - 146
Nitrobenzene-d5 (Surr)	83		34 - 132
2-Fluorobiphenyl	85		37 - 120
p-Terphenyl-d14 (Surr)	93		65 - 153
2-Fluorophenol (Surr)	80		18 - 120
Phenol-d5 (Surr)	83		11 - 120

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-184665/1-A
Matrix: Solid
Analysis Batch: 184798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg		05/29/14 15:03	05/30/14 10:46	1
PCB-1221	ND		0.23	0.045	mg/Kg		05/29/14 15:03	05/30/14 10:46	1
PCB-1232	ND		0.23	0.045	mg/Kg		05/29/14 15:03	05/30/14 10:46	1
PCB-1242	ND		0.23	0.045	mg/Kg		05/29/14 15:03	05/30/14 10:46	1
PCB-1248	ND		0.23	0.045	mg/Kg		05/29/14 15:03	05/30/14 10:46	1
PCB-1254	ND		0.23	0.11	mg/Kg		05/29/14 15:03	05/30/14 10:46	1
PCB-1260	ND		0.23	0.11	mg/Kg		05/29/14 15:03	05/30/14 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	119		46 - 175	05/29/14 15:03	05/30/14 10:46	1
DCB Decachlorobiphenyl	131		47 - 176	05/29/14 15:03	05/30/14 10:46	1

Lab Sample ID: LCS 480-184665/2-A
Matrix: Solid
Analysis Batch: 184798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.98	2.04		mg/Kg		103	51 - 185
PCB-1260	1.98	2.51		mg/Kg		127	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	121		46 - 175
DCB Decachlorobiphenyl	151		47 - 176

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-184445/1-A
Matrix: Water
Analysis Batch: 185085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/29/14 09:00	05/30/14 16:37	1
Antimony	ND		0.020	0.0068	mg/L		05/29/14 09:00	05/30/14 16:37	1
Arsenic	ND		0.015	0.0056	mg/L		05/29/14 09:00	05/30/14 16:37	1
Barium	ND		0.0020	0.00070	mg/L		05/29/14 09:00	05/30/14 16:37	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/14 09:00	05/30/14 16:37	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/14 09:00	05/30/14 16:37	1
Calcium	ND		0.50	0.10	mg/L		05/29/14 09:00	05/30/14 16:37	1
Chromium	ND		0.0040	0.0010	mg/L		05/29/14 09:00	05/30/14 16:37	1
Cobalt	ND		0.0040	0.00063	mg/L		05/29/14 09:00	05/30/14 16:37	1
Copper	ND		0.010	0.0016	mg/L		05/29/14 09:00	05/30/14 16:37	1
Iron	ND		0.050	0.019	mg/L		05/29/14 09:00	05/30/14 16:37	1
Lead	ND		0.010	0.0030	mg/L		05/29/14 09:00	05/30/14 16:37	1
Magnesium	ND		0.20	0.043	mg/L		05/29/14 09:00	05/30/14 16:37	1
Manganese	ND		0.0030	0.00040	mg/L		05/29/14 09:00	05/30/14 16:37	1
Nickel	ND		0.010	0.0013	mg/L		05/29/14 09:00	05/30/14 16:37	1
Potassium	0.109	J	0.50	0.10	mg/L		05/29/14 09:00	05/30/14 16:37	1

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-184445/1-A
Matrix: Water
Analysis Batch: 185085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		05/29/14 09:00	05/30/14 16:37	1
Silver	ND		0.0060	0.0017	mg/L		05/29/14 09:00	05/30/14 16:37	1
Sodium	ND		1.0	0.32	mg/L		05/29/14 09:00	05/30/14 16:37	1
Thallium	ND		0.020	0.010	mg/L		05/29/14 09:00	05/30/14 16:37	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/14 09:00	05/30/14 16:37	1
Zinc	ND		0.010	0.0015	mg/L		05/29/14 09:00	05/30/14 16:37	1

Lab Sample ID: LCS 480-184445/2-A
Matrix: Water
Analysis Batch: 185357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.95		mg/L		109	80 - 120
Antimony	0.200	0.208		mg/L		104	80 - 120
Arsenic	0.200	0.207		mg/L		103	80 - 120
Barium	0.200	0.214		mg/L		107	80 - 120
Beryllium	0.200	0.214		mg/L		107	80 - 120
Cadmium	0.200	0.209		mg/L		105	80 - 120
Calcium	10.0	10.61		mg/L		106	80 - 120
Chromium	0.200	0.221		mg/L		110	80 - 120
Cobalt	0.200	0.208		mg/L		104	80 - 120
Copper	0.200	0.214		mg/L		107	80 - 120
Iron	10.0	10.72		mg/L		107	80 - 120
Lead	0.200	0.206		mg/L		103	80 - 120
Magnesium	10.0	11.21		mg/L		112	80 - 120
Manganese	0.200	0.216		mg/L		108	80 - 120
Nickel	0.200	0.203		mg/L		102	80 - 120
Potassium	10.0	10.57		mg/L		106	80 - 120
Selenium	0.200	0.205		mg/L		102	80 - 120
Silver	0.0500	0.0540		mg/L		108	80 - 120
Sodium	10.0	10.37		mg/L		104	80 - 120
Thallium	0.200	0.215		mg/L		107	80 - 120
Vanadium	0.200	0.224		mg/L		112	80 - 120
Zinc	0.200	0.223		mg/L		111	80 - 120

Lab Sample ID: MB 480-184578/1-A
Matrix: Solid
Analysis Batch: 185177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.2	4.1	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Antimony	ND		13.8	0.37	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Arsenic	ND		1.8	0.37	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Barium	ND		0.46	0.10	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Beryllium	ND		0.18	0.026	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Cadmium	ND		0.18	0.028	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Calcium	3.53	J	46.1	3.0	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Chromium	ND		0.46	0.18	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Cobalt	ND		0.46	0.046	mg/Kg		05/29/14 11:00	05/30/14 22:28	1

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-184578/1-A

Matrix: Solid

Analysis Batch: 185177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.92	0.19	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Iron	ND		9.2	1.0	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Lead	ND		0.92	0.22	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Magnesium	ND		18.4	0.86	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Manganese	ND		0.18	0.030	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Nickel	ND		4.6	0.21	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Potassium	ND		27.7	18.4	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Selenium	ND		3.7	0.37	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Silver	ND		0.55	0.18	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Sodium	ND		129	12.0	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Thallium	ND		5.5	0.28	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Vanadium	ND		0.46	0.10	mg/Kg		05/29/14 11:00	05/30/14 22:28	1
Zinc	ND		1.8	0.14	mg/Kg		05/29/14 11:00	05/30/14 22:28	1

Lab Sample ID: LCSSRM 480-184578/2-A

Matrix: Solid

Analysis Batch: 185177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 184578

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9410	6583		mg/Kg		70.0	43.5 - 156.5
Antimony	129	96.76		mg/Kg		74.9	22.4 - 249.6
Arsenic	88.5	83.54		mg/Kg		94.4	69.0 - 131.2
Barium	210	188.3		mg/Kg		89.5	73.3 - 126.7
Beryllium	55.9	51.85		mg/Kg		92.8	73.1 - 127.1
Cadmium	143	131.2		mg/Kg		91.6	72.7 - 127.3
Calcium	7540	6624		mg/Kg		87.8	74.6 - 125.4
Chromium	86.9	75.09		mg/Kg		86.4	69.1 - 131.3
Cobalt	199	189.0		mg/Kg		94.8	74.4 - 125.6
Copper	268	253.3		mg/Kg		94.4	76.1 - 123.9
Iron	12800	9513		mg/Kg		74.2	31.6 - 168.0
Lead	98.1	92.02		mg/Kg		93.8	70.8 - 128.7
Magnesium	2850	2304		mg/Kg		80.7	65.3 - 134.7
Manganese	426	370.6		mg/Kg		87.1	76.2 - 123.5
Nickel	236	221.4		mg/Kg		93.6	74.2 - 128.0
Potassium	2570	2045		mg/Kg		79.5	61.1 - 138.9
Selenium	127	121.7		mg/Kg		95.7	66.6 - 133.9

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-184578/2-A
Matrix: Solid
Analysis Batch: 185177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184578

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	66.3	63.59		mg/Kg		95.9	67.1 - 132.9
Sodium	1040	937.5		mg/Kg		90.0	60.4 - 139.4
Thallium	140	132.2		mg/Kg		94.2	68.3 - 132.1
Vanadium	157	138.2		mg/Kg		87.9	71.3 - 128.7
Zinc	130	109.1		mg/Kg		83.8	66.9 - 133.1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-184563/1-A
Matrix: Water
Analysis Batch: 184861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/29/14 09:30	05/30/14 09:12	1

Lab Sample ID: LCS 480-184563/2-A
Matrix: Water
Analysis Batch: 184861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00693		mg/L		104	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-184620/1-A
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0078	mg/Kg		05/30/14 10:00	05/31/14 09:57	1

Lab Sample ID: LCSSRM 480-184620/2-A
Matrix: Solid
Analysis Batch: 185183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184620

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	3.98	3.65		mg/Kg		91.6	51.0 - 149.0

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-185480/117
Matrix: Water
Analysis Batch: 185480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	6.28	J	10.0	4.0	mg/L			06/03/14 15:24	1

Lab Sample ID: MB 480-185480/35
Matrix: Water
Analysis Batch: 185480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	4.86	J	10.0	4.0	mg/L			06/03/14 09:43	1

Lab Sample ID: MB 480-185480/7
Matrix: Water
Analysis Batch: 185480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0	4.0	mg/L			06/03/14 08:33	1

Lab Sample ID: LCS 480-185480/116
Matrix: Water
Analysis Batch: 185480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	53.27		mg/L		107	90 - 110

Lab Sample ID: LCS 480-185480/34
Matrix: Water
Analysis Batch: 185480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	53.39		mg/L		107	90 - 110

Lab Sample ID: LCS 480-185480/6
Matrix: Water
Analysis Batch: 185480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	45.14		mg/L		90	90 - 110

Lab Sample ID: 480-60592-3 MS
Matrix: Water
Analysis Batch: 185480

Client Sample ID: SEEP-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	403		20.0	433.1	4	mg/L		152	42 - 116

Lab Sample ID: 480-60592-3 MSD
Matrix: Water
Analysis Batch: 185480

Client Sample ID: SEEP-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	403		20.0	398.5	4	mg/L		-21	42 - 116	8	20

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
 Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-184994/1-A
Matrix: Water
Analysis Batch: 185198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		05/30/14 20:55	06/02/14 10:49	1

Lab Sample ID: LCS 480-184994/2-A
Matrix: Water
Analysis Batch: 185198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.260		mg/L		104	90 - 110

Lab Sample ID: 480-60592-3 MS
Matrix: Water
Analysis Batch: 185198

Client Sample ID: SEEP-1
Prep Type: Total/NA
Prep Batch: 184994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.020		0.100	0.124		mg/L		104	90 - 110

Lab Sample ID: MB 480-185746/1-A
Matrix: Water
Analysis Batch: 185872

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/04/14 19:04	06/05/14 09:41	1

Lab Sample ID: LCS 480-185746/2-A
Matrix: Water
Analysis Batch: 185872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.374		mg/L		94	90 - 110

Lab Sample ID: 480-60592-4 MS
Matrix: Water
Analysis Batch: 185872

Client Sample ID: MW-26S
Prep Type: Total/NA
Prep Batch: 185746

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.047		0.100	0.135	F1	mg/L		88	90 - 110

Lab Sample ID: 480-60592-4 DU
Matrix: Water
Analysis Batch: 185872

Client Sample ID: MW-26S
Prep Type: Total/NA
Prep Batch: 185746

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	0.047		0.0486		mg/L		3	15

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: MB 480-185747/1-A
Matrix: Solid
Analysis Batch: 185872

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.93	0.45	mg/Kg		06/04/14 21:41	06/05/14 10:11	1

Lab Sample ID: LCS 480-185747/2-A ^5
Matrix: Solid
Analysis Batch: 185872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	101	109.2		mg/Kg		108	29 - 122

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-185413/12
Matrix: Water
Analysis Batch: 185413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.5	mg/L			06/03/14 09:30	1

Lab Sample ID: LCS 480-185413/11
Matrix: Water
Analysis Batch: 185413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	28.87		mg/L		96	90 - 110

Method: 9251 - Chloride

Lab Sample ID: MB 480-185479/49
Matrix: Water
Analysis Batch: 185479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.34	mg/L			06/03/14 10:15	1

Lab Sample ID: MB 480-185479/7
Matrix: Water
Analysis Batch: 185479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.34	mg/L			06/03/14 08:30	1

Lab Sample ID: LCS 480-185479/48
Matrix: Water
Analysis Batch: 185479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.68		mg/L		99	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method: 9251 - Chloride (Continued)

Lab Sample ID: LCS 480-185479/6

Matrix: Water

Analysis Batch: 185479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.78		mg/L		99	90 - 110

Lab Sample ID: 480-60592-3 MS

Matrix: Water

Analysis Batch: 185479

Client Sample ID: SEEP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1100		20.0	1090	4	mg/L		-66	74 - 131

Lab Sample ID: 480-60592-3 MSD

Matrix: Water

Analysis Batch: 185479

Client Sample ID: SEEP-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1100		20.0	1081	4	mg/L		-111	74 - 131	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-184472/1

Matrix: Water

Analysis Batch: 184472

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			05/28/14 20:51	1

Lab Sample ID: LCS 480-184472/2

Matrix: Water

Analysis Batch: 184472

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	503	465.0		mg/L		92	85 - 115

Lab Sample ID: MB 480-184730/1

Matrix: Water

Analysis Batch: 184730

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			05/29/14 23:35	1

Lab Sample ID: LCS 480-184730/2

Matrix: Water

Analysis Batch: 184730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	462.0		mg/L		92	85 - 115

TestAmerica Buffalo

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

GC/MS VOA

Analysis Batch: 184378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	8260C	184396
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	8260C	184396
LCS 480-184378/6	Lab Control Sample	Total/NA	Solid	8260C	
MB 480-184378/7	Method Blank	Total/NA	Solid	8260C	

Prep Batch: 184396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	5035A	
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	5035A	

Analysis Batch: 185304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	8260C	
480-60592-4	MW-26S	Total/NA	Water	8260C	
480-60592-5	Trip Blank	Total/NA	Water	8260C	
LCS 480-185304/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-185304/6	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 184424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	3510C	
480-60592-4	MW-26S	Total/NA	Water	3510C	
LCS 480-184424/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-184424/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 184529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	3550C	
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	3550C	
LCS 480-184529/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-184529/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 185382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-184529/2-A	Lab Control Sample	Total/NA	Solid	8270D	184529
MB 480-184529/1-A	Method Blank	Total/NA	Solid	8270D	184529

Analysis Batch: 185840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	8270D	184529
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	8270D	184529

Analysis Batch: 190112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-184424/2-A	Lab Control Sample	Total/NA	Water	8270D	184424

TestAmerica Buffalo

QC Association Summary

Client: GEI Consultants, Inc.
 Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

GC/MS Semi VOA (Continued)

Analysis Batch: 190710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	8270D	184424
480-60592-4	MW-26S	Total/NA	Water	8270D	184424
MB 480-184424/1-A	Method Blank	Total/NA	Water	8270D	184424

GC Semi VOA

Prep Batch: 184665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	3550C	
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	3550C	
LCS 480-184665/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-184665/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 184798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	8082A	184665
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	8082A	184665
LCS 480-184665/2-A	Lab Control Sample	Total/NA	Solid	8082A	184665
MB 480-184665/1-A	Method Blank	Total/NA	Solid	8082A	184665

Metals

Prep Batch: 184445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	3005A	
480-60592-4	MW-26S	Total/NA	Water	3005A	
LCS 480-184445/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-184445/1-A	Method Blank	Total/NA	Water	3005A	

Prep Batch: 184563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	7470A	
480-60592-4	MW-26S	Total/NA	Water	7470A	
LCS 480-184563/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-184563/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 184578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	3050B	
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	3050B	
LCSSRM 480-184578/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-184578/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 184620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	7471B	
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	7471B	
LCSSRM 480-184620/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-184620/1-A	Method Blank	Total/NA	Solid	7471B	

TestAmerica Buffalo

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Metals (Continued)

Analysis Batch: 184861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	7470A	184563
480-60592-4	MW-26S	Total/NA	Water	7470A	184563
LCS 480-184563/2-A	Lab Control Sample	Total/NA	Water	7470A	184563
MB 480-184563/1-A	Method Blank	Total/NA	Water	7470A	184563

Analysis Batch: 185085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-4	MW-26S	Total/NA	Water	6010C	184445
MB 480-184445/1-A	Method Blank	Total/NA	Water	6010C	184445

Analysis Batch: 185177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	6010C	184578
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	6010C	184578
LCSSRM 480-184578/2-A	Lab Control Sample	Total/NA	Solid	6010C	184578
MB 480-184578/1-A	Method Blank	Total/NA	Solid	6010C	184578

Analysis Batch: 185183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	7471B	184620
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	7471B	184620
LCSSRM 480-184620/2-A	Lab Control Sample	Total/NA	Solid	7471B	184620
MB 480-184620/1-A	Method Blank	Total/NA	Solid	7471B	184620

Analysis Batch: 185357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	6010C	184445
LCS 480-184445/2-A	Lab Control Sample	Total/NA	Water	6010C	184445

General Chemistry

Analysis Batch: 184472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-4	MW-26S	Total/NA	Water	SM 2540C	
LCS 480-184472/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 480-184472/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 184474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	Moisture	
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	Moisture	

Analysis Batch: 184495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	353.2	
480-60592-4	MW-26S	Total/NA	Water	353.2	

Analysis Batch: 184730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	SM 2540C	

TestAmerica Buffalo

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

General Chemistry (Continued)

Analysis Batch: 184730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-184730/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 480-184730/1	Method Blank	Total/NA	Water	SM 2540C	

Prep Batch: 184994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	9012B	
480-60592-3 MS	SEEP-1	Total/NA	Water	9012B	
LCS 480-184994/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 480-184994/1-A	Method Blank	Total/NA	Water	9012B	

Analysis Batch: 185198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	9012B	184994
480-60592-3 MS	SEEP-1	Total/NA	Water	9012B	184994
LCS 480-184994/2-A	Lab Control Sample	Total/NA	Water	9012B	184994
MB 480-184994/1-A	Method Blank	Total/NA	Water	9012B	184994

Analysis Batch: 185413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	9038	
480-60592-4	MW-26S	Total/NA	Water	9038	
LCS 480-185413/11	Lab Control Sample	Total/NA	Water	9038	
MB 480-185413/12	Method Blank	Total/NA	Water	9038	

Analysis Batch: 185479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	9251	
480-60592-3 MS	SEEP-1	Total/NA	Water	9251	
480-60592-3 MSD	SEEP-1	Total/NA	Water	9251	
480-60592-4	MW-26S	Total/NA	Water	9251	
LCS 480-185479/48	Lab Control Sample	Total/NA	Water	9251	
LCS 480-185479/6	Lab Control Sample	Total/NA	Water	9251	
MB 480-185479/49	Method Blank	Total/NA	Water	9251	
MB 480-185479/7	Method Blank	Total/NA	Water	9251	

Analysis Batch: 185480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-3	SEEP-1	Total/NA	Water	310.2	
480-60592-3 MS	SEEP-1	Total/NA	Water	310.2	
480-60592-3 MSD	SEEP-1	Total/NA	Water	310.2	
480-60592-4	MW-26S	Total/NA	Water	310.2	
LCS 480-185480/116	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-185480/34	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-185480/6	Lab Control Sample	Total/NA	Water	310.2	
MB 480-185480/117	Method Blank	Total/NA	Water	310.2	
MB 480-185480/35	Method Blank	Total/NA	Water	310.2	
MB 480-185480/7	Method Blank	Total/NA	Water	310.2	

Prep Batch: 185746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-4	MW-26S	Total/NA	Water	9012B	

TestAmerica Buffalo

QC Association Summary

Client: GEI Consultants, Inc.
 Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

General Chemistry (Continued)

Prep Batch: 185746 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-4 DU	MW-26S	Total/NA	Water	9012B	
480-60592-4 MS	MW-26S	Total/NA	Water	9012B	
LCS 480-185746/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 480-185746/1-A	Method Blank	Total/NA	Water	9012B	

Prep Batch: 185747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	9012B	
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	9012B	
LCS 480-185747/2-A ^5	Lab Control Sample	Total/NA	Solid	9012B	
MB 480-185747/1-A	Method Blank	Total/NA	Solid	9012B	

Analysis Batch: 185872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60592-1	SEEP-1-0-3"	Total/NA	Solid	9012B	185747
480-60592-2	SEEP-1-12-14"	Total/NA	Solid	9012B	185747
480-60592-4	MW-26S	Total/NA	Water	9012B	185746
480-60592-4 DU	MW-26S	Total/NA	Water	9012B	185746
480-60592-4 MS	MW-26S	Total/NA	Water	9012B	185746
LCS 480-185746/2-A	Lab Control Sample	Total/NA	Water	9012B	185746
LCS 480-185747/2-A ^5	Lab Control Sample	Total/NA	Solid	9012B	185747
MB 480-185746/1-A	Method Blank	Total/NA	Water	9012B	185746
MB 480-185747/1-A	Method Blank	Total/NA	Solid	9012B	185747

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1-0-3"

Date Collected: 05/27/14 11:30

Date Received: 05/27/14 18:00

Lab Sample ID: 480-60592-1

Matrix: Solid

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			184396	05/28/14 12:57	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	184378	05/28/14 17:09	CDC	TAL BUF
Total/NA	Prep	3550C			184529	05/29/14 07:50	TRG	TAL BUF
Total/NA	Analysis	8270D		5	185840	06/05/14 14:44	AR1	TAL BUF
Total/NA	Prep	3550C			184665	05/29/14 15:03	AJM	TAL BUF
Total/NA	Analysis	8082A		1	184798	05/30/14 16:33	JMM	TAL BUF
Total/NA	Prep	3050B			184578	05/29/14 11:00	EHD	TAL BUF
Total/NA	Analysis	6010C		1	185177	05/30/14 23:24	MTM2	TAL BUF
Total/NA	Prep	7471B			184620	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 10:44	LRK	TAL BUF
Total/NA	Prep	9012B			185747	06/04/14 21:41	JMB	TAL BUF
Total/NA	Analysis	9012B		1	185872	06/05/14 10:18	JTS	TAL BUF
Total/NA	Analysis	Moisture		1	184474	05/28/14 20:31	CW	TAL BUF

Client Sample ID: SEEP-1-12-14"

Date Collected: 05/27/14 12:00

Date Received: 05/27/14 18:00

Lab Sample ID: 480-60592-2

Matrix: Solid

Percent Solids: 66.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			184396	05/28/14 12:57	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	184378	05/28/14 17:34	CDC	TAL BUF
Total/NA	Prep	3550C			184529	05/29/14 07:50	TRG	TAL BUF
Total/NA	Analysis	8270D		5	185840	06/05/14 15:09	AR1	TAL BUF
Total/NA	Prep	3550C			184665	05/29/14 15:03	AJM	TAL BUF
Total/NA	Analysis	8082A		1	184798	05/30/14 16:48	JMM	TAL BUF
Total/NA	Prep	3050B			184578	05/29/14 11:00	EHD	TAL BUF
Total/NA	Analysis	6010C		1	185177	05/30/14 23:27	MTM2	TAL BUF
Total/NA	Prep	7471B			184620	05/30/14 10:00	EHD	TAL BUF
Total/NA	Analysis	7471B		1	185183	05/31/14 10:45	LRK	TAL BUF
Total/NA	Prep	9012B			185747	06/04/14 21:41	JMB	TAL BUF
Total/NA	Analysis	9012B		1	185872	06/05/14 10:19	JTS	TAL BUF
Total/NA	Analysis	Moisture		1	184474	05/28/14 20:31	CW	TAL BUF

Client Sample ID: SEEP-1

Date Collected: 05/27/14 12:00

Date Received: 05/27/14 18:00

Lab Sample ID: 480-60592-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	185304	06/03/14 12:01	CDC	TAL BUF
Total/NA	Prep	3510C			184424	05/28/14 14:19	AJM	TAL BUF
Total/NA	Analysis	8270D		1	190710	07/01/14 15:15	PJQ	TAL BUF
Total/NA	Prep	3005A			184445	05/29/14 09:00	EHD	TAL BUF
Total/NA	Analysis	6010C		1	185357	06/02/14 14:35	MTM2	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Client Sample ID: SEEP-1

Lab Sample ID: 480-60592-3

Date Collected: 05/27/14 12:00

Matrix: Water

Date Received: 05/27/14 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			184563	05/29/14 09:30	SS1	TAL BUF
Total/NA	Analysis	7470A		1	184861	05/29/14 14:45	SS1	TAL BUF
Total/NA	Analysis	310.2		10	185480	06/03/14 08:50	NCH	TAL BUF
Total/NA	Analysis	353.2		1	184495	05/28/14 19:12	RS	TAL BUF
Total/NA	Prep	9012B			184994	05/30/14 20:55	JMB	TAL BUF
Total/NA	Analysis	9012B		1	185198	06/02/14 11:19	JTS	TAL BUF
Total/NA	Analysis	9038		30	185413	06/03/14 09:53	NCH	TAL BUF
Total/NA	Analysis	9251		50	185479	06/03/14 09:20	NCH	TAL BUF
Total/NA	Analysis	SM 2540C		1	184730	05/29/14 23:37	KS	TAL BUF

Client Sample ID: MW-26S

Lab Sample ID: 480-60592-4

Date Collected: 05/27/14 14:00

Matrix: Water

Date Received: 05/27/14 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	185304	06/03/14 12:27	CDC	TAL BUF
Total/NA	Prep	3510C			184424	05/28/14 14:19	AJM	TAL BUF
Total/NA	Analysis	8270D		1	190710	07/01/14 15:39	PJQ	TAL BUF
Total/NA	Prep	3005A			184445	05/29/14 09:00	EHD	TAL BUF
Total/NA	Analysis	6010C		1	185085	05/30/14 17:13	MTM2	TAL BUF
Total/NA	Prep	7470A			184563	05/29/14 09:30	SS1	TAL BUF
Total/NA	Analysis	7470A		1	184861	05/29/14 14:47	SS1	TAL BUF
Total/NA	Analysis	310.2		10	185480	06/03/14 09:55	NCH	TAL BUF
Total/NA	Analysis	353.2		1	184495	05/28/14 19:13	RS	TAL BUF
Total/NA	Prep	9012B			185746	06/04/14 19:04	JMB	TAL BUF
Total/NA	Analysis	9012B		1	185872	06/05/14 09:51	JTS	TAL BUF
Total/NA	Analysis	9038		30	185413	06/03/14 09:53	NCH	TAL BUF
Total/NA	Analysis	9251		50	185479	06/03/14 10:34	NCH	TAL BUF
Total/NA	Analysis	SM 2540C		1	184472	05/28/14 21:07	KS	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-60592-5

Date Collected: 05/27/14 00:00

Matrix: Water

Date Received: 05/27/14 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	185304	06/03/14 12:52	CDC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
353.2		Water	Nitrate as N
9038		Water	Sulfate
9251		Water	Chloride
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
9251	Chloride	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: RG&E - West Station Former MGP Site

TestAmerica Job ID: 480-60592-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60592-1	SEEP-1-0-3"	Solid	05/27/14 11:30	05/27/14 18:00
480-60592-2	SEEP-1-12-14"	Solid	05/27/14 12:00	05/27/14 18:00
480-60592-3	SEEP-1	Water	05/27/14 12:00	05/27/14 18:00
480-60592-4	MW-26S	Water	05/27/14 14:00	05/27/14 18:00
480-60592-5	Trip Blank	Water	05/27/14 00:00	05/27/14 18:00

1

2

3

4

5

6

7

8

9

10

11

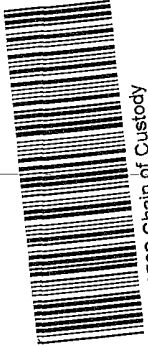
12

13

14

15

Chain of Custody Record



Client Information
 Client Contact: Michael Cummings
 Company: GEI Consultants, Inc.
 Address: 90B John Muir Drive Suite 104
 City: Amherst
 State, Zip: NY, 14228
 Phone: 585-771-4556 (Tel)
 Email: mcummings@geiconsultants.com
 Project Name: RG&E - West Station Former MGP Site
 Site: 48006048

Carrier Tracking No(s):
 480-48313-12805.1
 Page: Page 1 of 1
 Job #:

Due Date Requested:
 TAT Requested (days): **STB**
 PO #: 4700139971
 WO #: **West Station Former MGP Site/Steve Mulli**
 Project #: **48006048**
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other, I=ice)	Field Filtered Sample (Yes or No)	Performance/MS/MSD (Yes or No)	9012B - Cyanide	8270D - TCL SVOCs	8260C - TCL VOCs	2640D - Total Suspended Solids	9012B - Cyanide	363.2, 363.2 Nitrite, 9038, 9261, Nitrate, Calc	310.2 - Alkalinity	Total Number of Containers	Special Instructions/Note:
RF 100 SEEP-1-0-3"	5-27-14	1	Solid	Solid									1		
SEEP-1-0-12-14"			Water	Water				2	3	1			1		
SEEP-1		12:00	Water	Water				2	3	1			1		
MW-265		14:00	Water	Water				2	3	1			1		
Trip Blank			Water	Water											

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Received by: _____ Date/Time: **5-27-14 19:00**
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Company: **TestAmerica**
 Company: _____
 Company: _____

Cooler Temperature(s) °C and Other Remarks: **4.5**

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 480-60592-1

Login Number: 60592

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC is not relinquished by the client.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No sample times listed on the COC for soil samples. Taken from bottles.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



Attachment B

Data Usability Report

1. Usability Review

General quality assurance and quality control (QA/QC) measures were taken to ensure the reliability of data generated during the sampling event. A trip blanks was provided for VOC analysis. Equipment blanks were not required since dedicated sampling equipment was used. Duplicates were not collected due to the small number of samples submitted. The analytical results (Level 4 data package) provided by TestAmerica are presented in Attachment A and the Electronic Data Deliverable (EDD) was uploaded to the NYSDEC web in appropriate format on July 18, 2014. The specific methodologies employed in obtaining the analytical results refer to the following USEPA references.

- “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods” (SW-846), Third Edition, September 1994, USEPA Office of Solid Waste.
- 40CFR Part 136 “Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act”, October 26, 1984 USEPA.

Data were evaluated consistent with the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) DER-10, technical Guidance for Site Investigation and Remediation Appendix 2B – Guidance for Data Deliverables and Development of Data Usability Summary Reports, May 2010. Qualifiers added to the data and the conditions for addition of the qualifiers are those specified in EPA guidance documents "National Functional Guidelines for Organic Data Review", dated October 1999, EPA-540/R-99/008, "National Functional Guidelines for Inorganic Data Review", dated February, 1994, EPA-540/R-94-013.

1.1 Sample Management

Analytical data for two water and two soil samples were collected by GEI staff on May 27, 2014 and delivered the same day to Test America – Buffalo for analyses. The water samples were analyzed for:

- TCL VOCs (EPA Method 8260)
- TCL SVOCs (EPA Method 8270)
- TAL Metals (EPA Method 6010)
- Total Cyanide (EPA Method 9012A)
- Total Alkalinity (EPA Method 310.2)
- Sulfate (EPA Method 9038)
- Chloride (EPA Method 9251)
- Total Dissolved Solids (EPA Method SM2540-C)
- Nitrate (EPA Method 353.2)

The soil samples were analyzed for the following:

- VOCs (EPA Method 5035A)
- SVOCs (EPA Method 8270)
- TAL Metals (EPA Method 6010)
- Total Cyanide (EPA Method 9012A)
- PCBs (EPA Method 8082)

The sample collection times were missing from the COC. The laboratory used sample collection times on sample bottles for sample login. No other anomalies were observed regarding sample management. The samples in the SDG were received at the laboratory within the temperature limits of $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and in good condition.

1.2 Laboratory Analysis

The Level II data package was complete and compliant with EPA protocols.

1.2.1 Organic Data

Holding Times: The preserved VOC water samples were analyzed within 14 days of sample collection. SVOC water samples were extracted within 7 days and analyzed within 40 days. Soil samples were extracted and analyzed within appropriate hold times.

Sample Trip Blank was the trip blank identified for the samples in this SDG. The trip blank had no detects reported above the MDL.

VOCs

- Method(s) 8260C: The method blank for batch 184378 contained Methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.
- Method(s) 8260C: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: MW-26S (480-60592-4), SEEP-1 (480-60592-3). Elevated reporting limits (RLs) are provided.

SVOCs

- Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: SEEP-1-0-3" (480-60592-1), SEEP-1-12-14" (480-60592-2). Elevated reporting limits (RLs) are provided.
- Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 185840 recovered above the upper control limit for 2,4-Dinitrophenol and 2,4-Dinitrotoluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
- Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 185840 recovered above the upper control limit for Benzaldehyde. The samples

associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

- Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 185382 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
- Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 190710 was outside the method criteria for the following analyte: Pentachlorophenol, Atrazine, 3,3'-Dichlorobenzidine, and 4-Methylphenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

PCBs

- Method(s) 8082A: The surrogate percent difference in the associated continuing calibration verifications (CCV) for Decachlorobiphenyl exceeded 20%, indicating a high bias. The reporting limits were supported by the laboratory MDLs.

1.2.2 Inorganic Data

Data packages were complete. Compliance assessments showed that laboratory control standards for all analytes were within acceptance limits. All EPA recommended holding times were met for the original analysis.

Conventional Chemistry Data

- Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: MW-26S (480-60592-4) and SEEP-1 (480-60592-3). The reporting limits (RLs) have been adjusted proportionately.
- Method(s) 310.2: The method blank for batch 185480 contained alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Metals

- Method(s) 6010C: The method blank for batch 480-184578 contained calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.
- Method(s) 6010C: The method blank for batch 480-184445 contained potassium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

- Method(s) 6010C: The continuing calibration blank (CCB) for analytical batch 480-185085 contained aluminum, beryllium, calcium, iron, and sodium above the reporting limit (RL). All reported samples associated with this CCB were either less than the reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples (MB480-184445/1-A), MW-26S (480-60592-4) was not performed.

Metals data were usable as reported without additional qualification.

1.3 Data Usability

Based on a review of laboratory and field QC data, the analytical results reported by the laboratory are usable as qualified in the laboratory reports.

Attachment C

META Environmental Forensic Report

Environmental Forensic Report

West Station Off-Site Seep

SDG: MC30898



Report To:

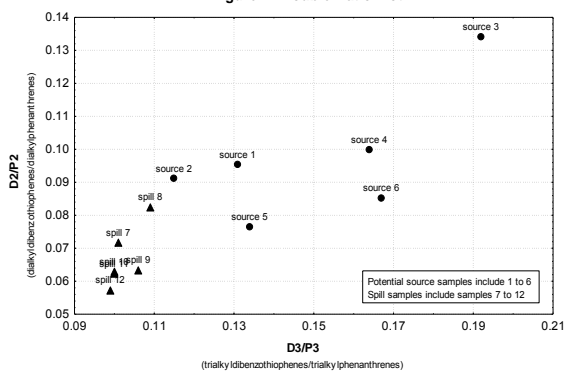
**GEI Consultants, Inc.
90B John Muir Drive
Suite 104
Amherst, NY 14228**

Report By:

**META Environmental, Inc.
115 Dean Avenue
Suite 300
Franklin MA 02038**

July 9, 2014

Figure 1. Double Ratio Plot



Identifying and allocating sources of pollutants in complex environments.

Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. The results included in this data report relate only to the samples as received and analyzed by the laboratory.

This report shall not be reproduced except in full, without the written approval of META Environmental, Inc.

Release of the data contained in this hardcopy or electronic copy data package has been authorized by the following signature(s).



July 9, 2014

David M. Mauro
President, Senior Scientist

Date

META Environmental, Inc.
115 Dean Avenue, Suite 300
Franklin MA 02038
Phone: 508-541-9146
E-Mail dmauro@metaenv.com

Sample Delivery Group

Project: West Station Off-Site Seep
Client: GEI Consultants, Inc.
90B John Muir Drive
Suite 104
Amherst, NY 14228
Report Contact: Richard Frappa
Dates of Receipt: 5/28/2014
Sample Summary: The samples received for this project are summarized in the attached sample login forms in Appendix A.
META Project Number: G04048
SDG No.: MC30898

Chain of Custody

Chain of custody documentation is provided in the Accutest Laboratory report (Appendix D).

Methods

The water samples were prepared by solvent extraction (EPA 3511) using dichloromethane (DCM).

The soil samples were prepared by solvent extraction (EPA 3570) using DCM.

The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8100M) for fingerprinting and by GC/MS/SIM (EPA 8270M) for mono- and polycyclic aromatic hydrocarbons (MAHs and PAHs), alkyl PAH homologues and other selected compounds.

Results

Sample results are presented in several appendices which follow this narrative.

Appendix A: GC/FID Fingerprints

Appendix B: Bar Graphs

Appendix C: Extracted Ion Current Profiles (EICPs)

Appendix D: Accutest Laboratories Report – MC30898

Quality Control

Quality control measures and results are provided in the Accutest Laboratory report (Appendix D).

Interpretation

Introduction

Two samples of water and two samples of soil were received by Accutest Laboratories of New England for META Environmental, Inc. (META) from the West Station former MGP site on May 28, 2014. The samples were analyzed for hydrocarbon fingerprint and an expanded list of MAHs and PAHs.

This report summarizes the findings and compares the samples.

Sample-Specific Observations

Seep-1

Water sample Seep-1 contained very low concentrations of o-xylene, benzo(b)thiophene, acenaphthene, C2-benzenes, C3-benzenes, and C4-benzenes. No detectable pattern was evident on the GC/FID chromatogram. The concentrations were too low to generate interpretable patterns.

MW-26S

Water sample MW-26S contained no detectable PAHs or GC/FID pattern.

Seep-1-0-3"

Soil sample Seep-1-0-3" contained a mixture of pyrogenic and petrogenic PAHs (see definitions). The pyrogenic material was indicated by a wide range distribution of MAHs and PAHs with the parent compounds at higher relative amounts than their alkylated homologs. Fluoranthene and pyrene were detected at the highest concentrations; 273 ug/kg and 253 ug/kg, respectively (see Appendix B).

The concentration of total priority pollutant PAHs was 1,710 ug/kg. The fluoranthene/pyrene ratio was 1.06.

Sample Seep-1-0-3" also contained petroleum biomarker compounds (see Appendix C) indicative of low relative amounts of middle and high boiling petroleum-derived matter.

The sample also contained an odd-carbon high molecular weight alkane pattern and elevated perylene (relative to other HPAHs) indicative of natural organic matter.

These characteristics are consistent with urban background-sources of PAHs.

Seep-1-12-14"

Soil sample Seep-1-12-14" contained a mixture of pyrogenic and petrogenic substances very similar to Seep-1-0-3".

The concentration of total priority pollutant PAHs was 2,090 ug/kg; and the fluoranthene/pyrene ratio was 1.12.

These characteristics also are consistent with urban background.

Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

References

“Chemical Fingerprinting of Hydrocarbons,” in: Introduction to Environmental Forensics. B.L. Murphy and R.D. Morrison editors, Academic Press, San Diego, CA 2002.

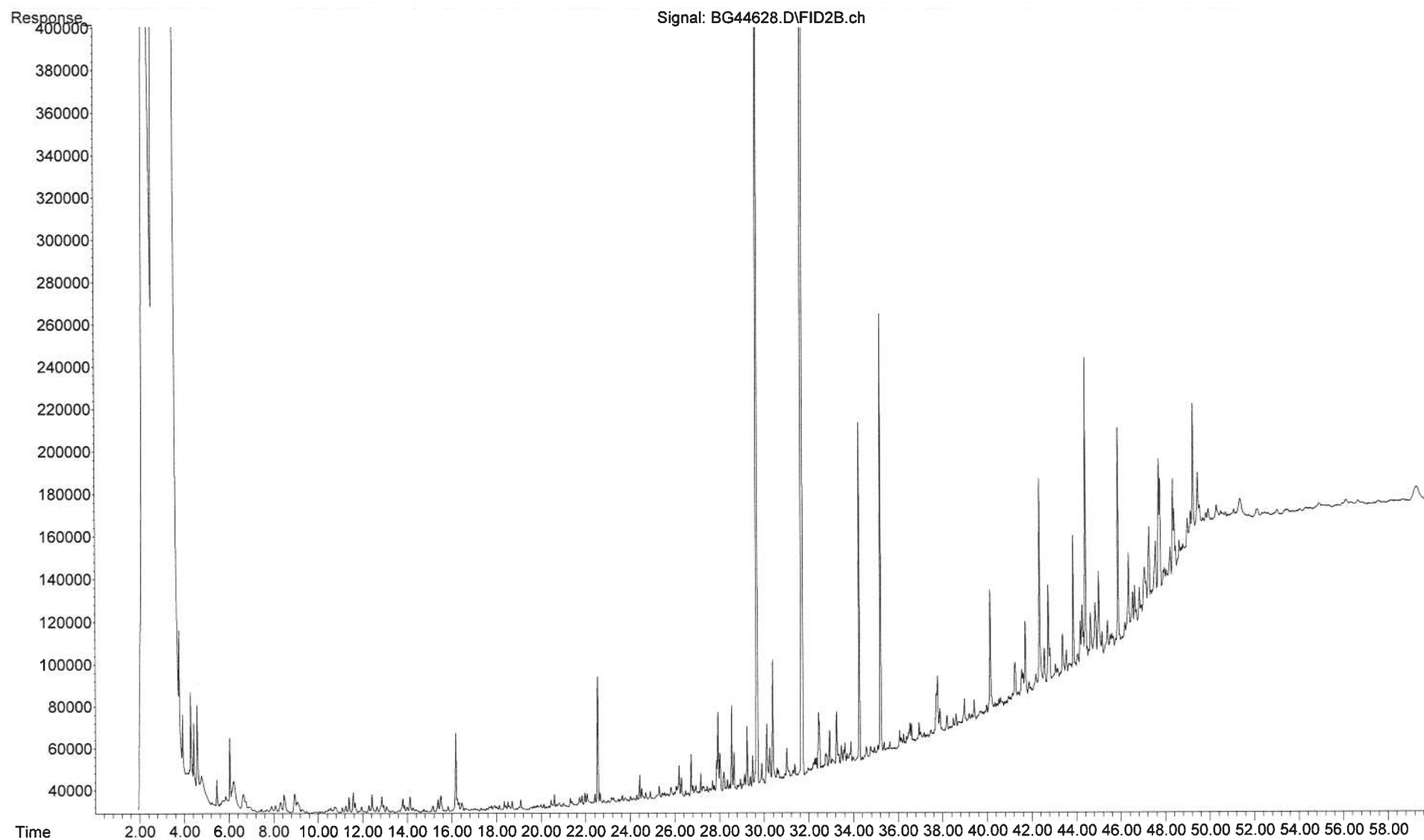
Mauro, D.M., “Chemical Source Attribution at former MGP Sites,” EPRI Report 1000728, December 2000.

Mauro, D.M., “Examination of the Sources of Polycyclic Aromatic Hydrocarbons (PAH) in Urban Background Soil,” EPRI Technical Update Report 1015558, December 2008.

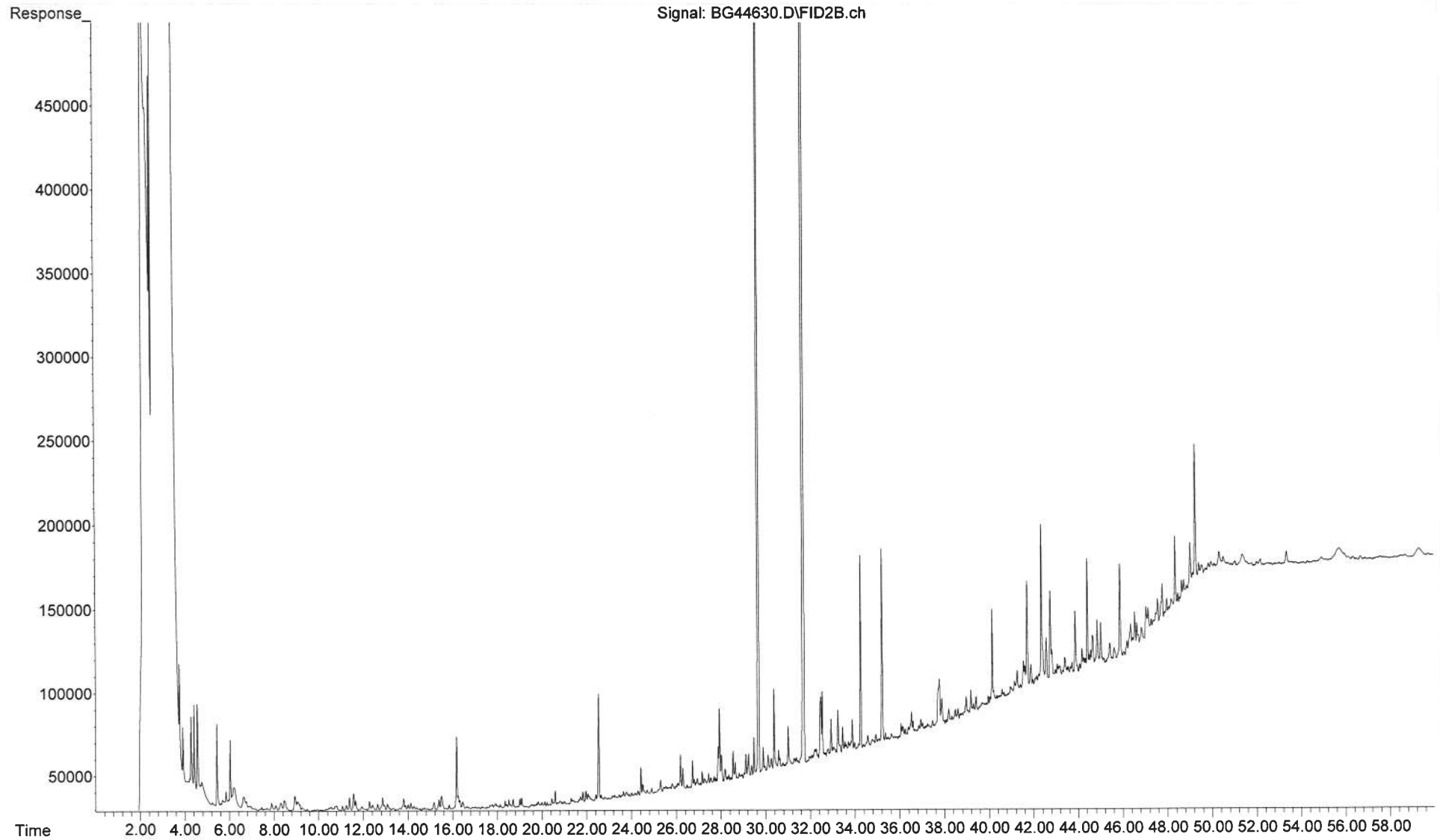
Appendix A

GC/FID Fingerprints

File :P:\Projects A-M\GEI\G04048 West Station\MC30898 GC-FID Raw\B
... G44628.D
Operator : RubenP
Instrument : GCBG
Acquired : 5 Jun 2014 9:33 pm using AcqMethod FORENSICDUAL.M
Sample Name: MC30898-2
Misc Info : OP38365,GBG1703,5.91,,,2,1

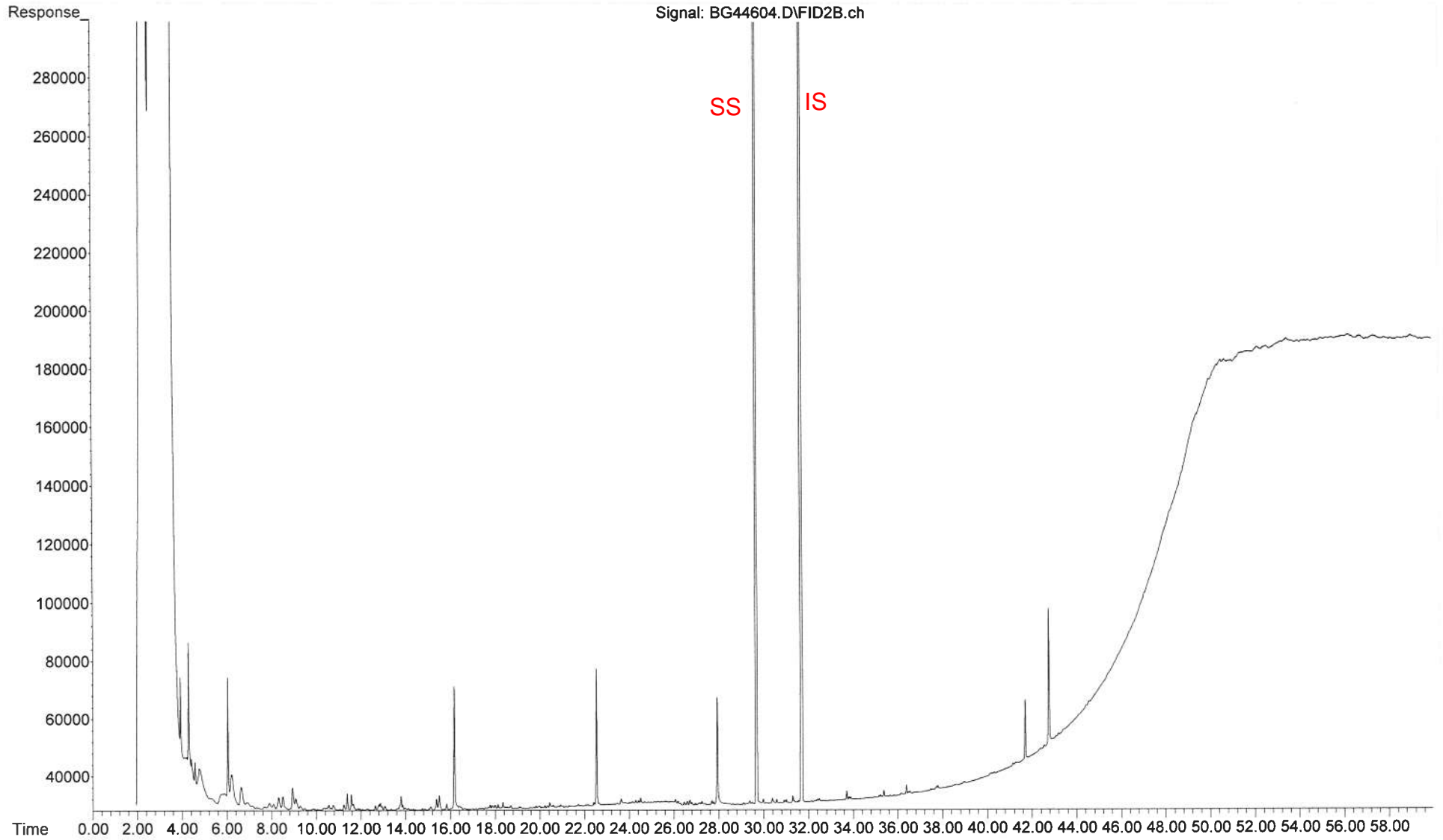


File :P:\Projects A-M\GEI\G04048 West Station\MC30898 GC-FID Raw\B
... G44630.D
Operator : RubenP
Instrument : GCBG
Acquired : 5 Jun 2014 10:41 pm using AcqMethod FORENSICDUAL.M
Sample Name: MC30898-3
Misc Info : OP38365,GBG1703,5.19,,,,2,1



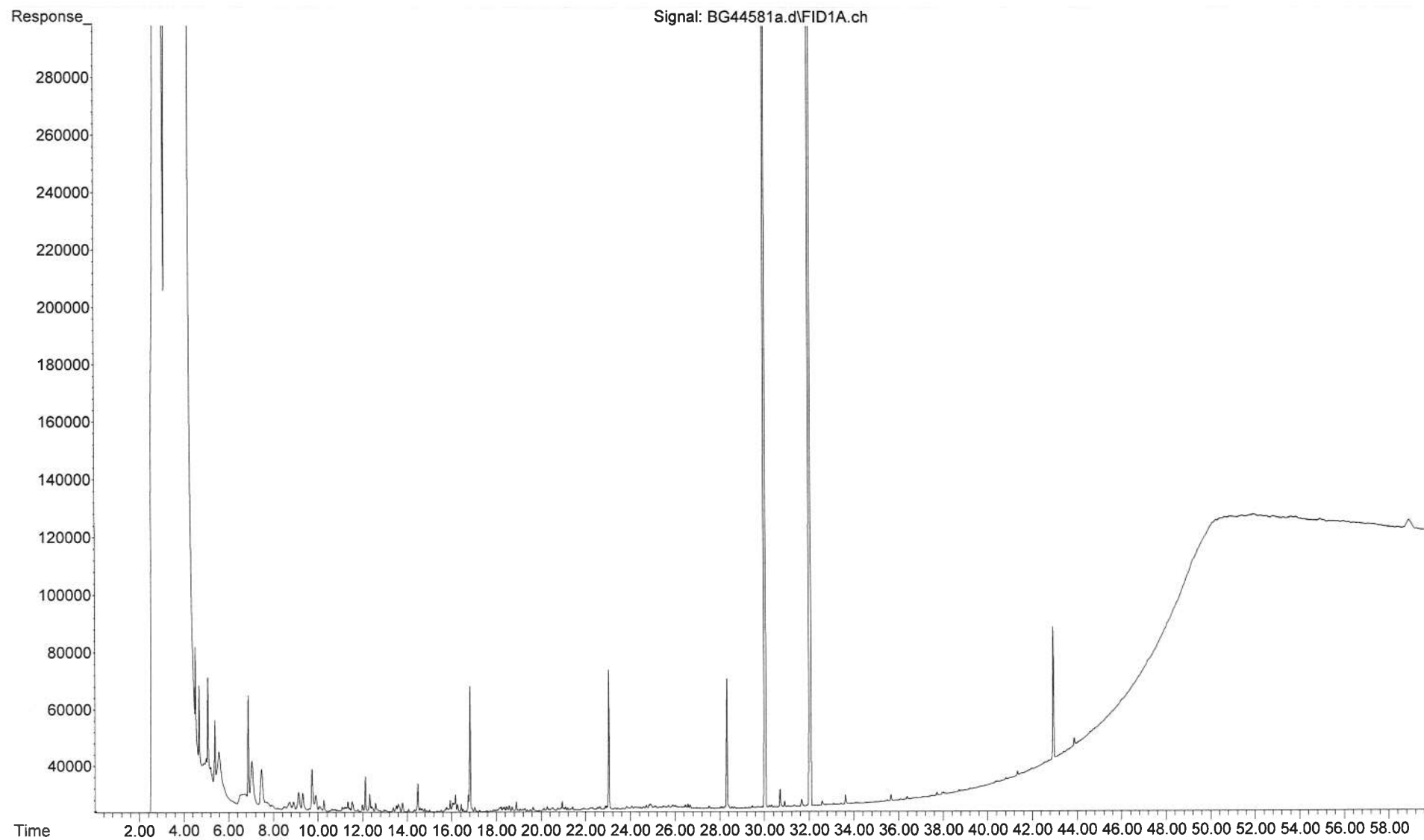
File :P:\Projects A-M\GEI\G04048 West Station\MC30898 GC-FID Raw\B
... G44604.D
Operator : RubenP
Instrument : GCBG
Acquired : 5 Jun 2014 7:47 am using AcqMethod FORENSICDUAL.M
Sample Name: OP38384-MB
Misc Info : OP38384,GBG1703,35,,,2,1

Method Blank

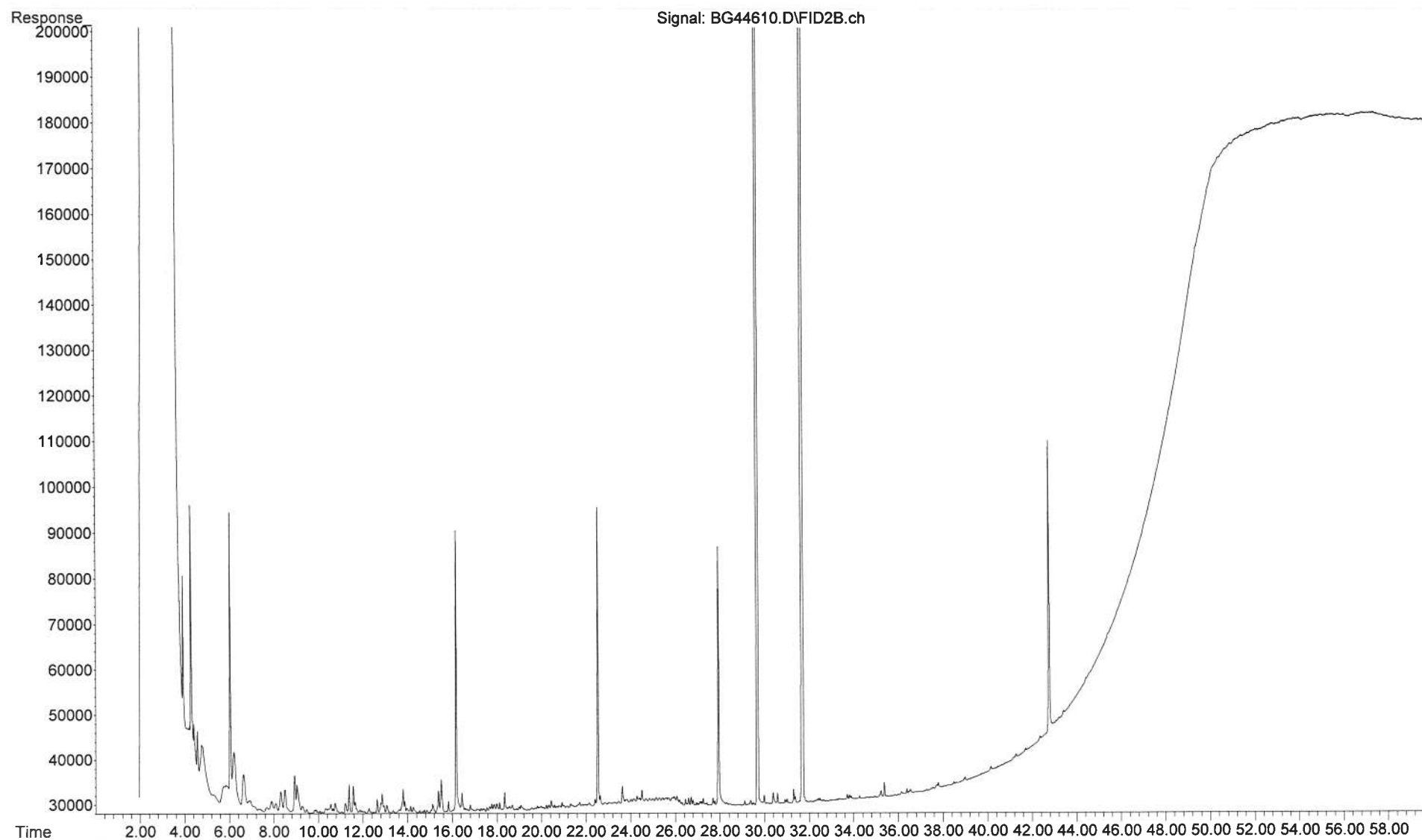


File :P:\Projects A-M\GEI\G04048 West Station\MC30898 GC-FID Raw\B
... G44581a.d
Operator : RubenP
Instrument : GCBG
Acquired : 4 Jun 2014 5:35 pm using AcqMethod FORENSICDUAL.M
Sample Name: OP38365-MB
Misc Info : OP38365,GBG1702,5.0,,,2,1

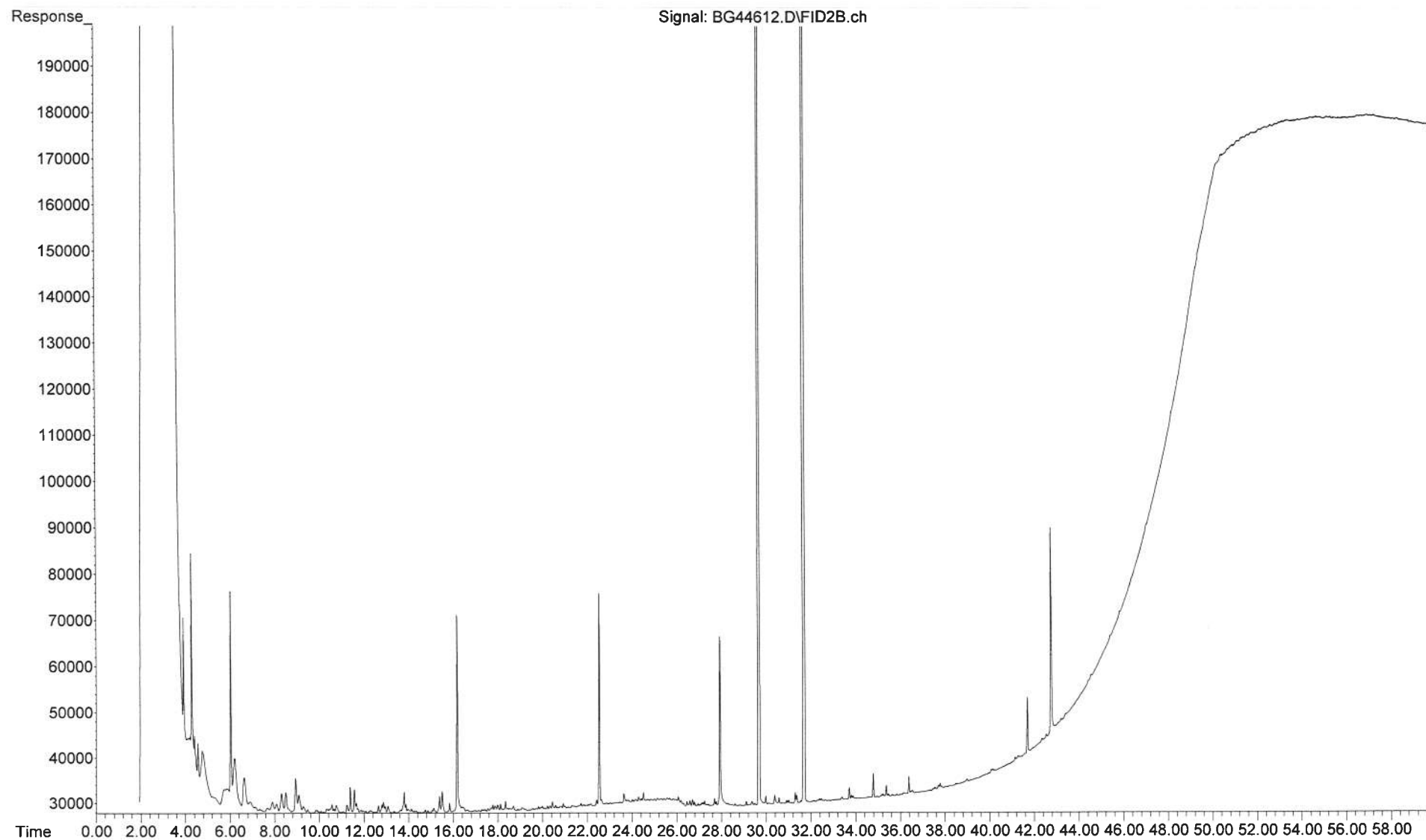
Method Blank



File :P:\Projects A-M\GEI\G04048 West Station\MC30898 GC-FID Raw\B
... G44610.D
Operator : RubenP
Instrument : GCBG
Acquired : 5 Jun 2014 11:17 am using AcqMethod FORENSICDUAL.M
Sample Name: MC30898-1
Misc Info : OP38384,GBG1703,35,,,2,1



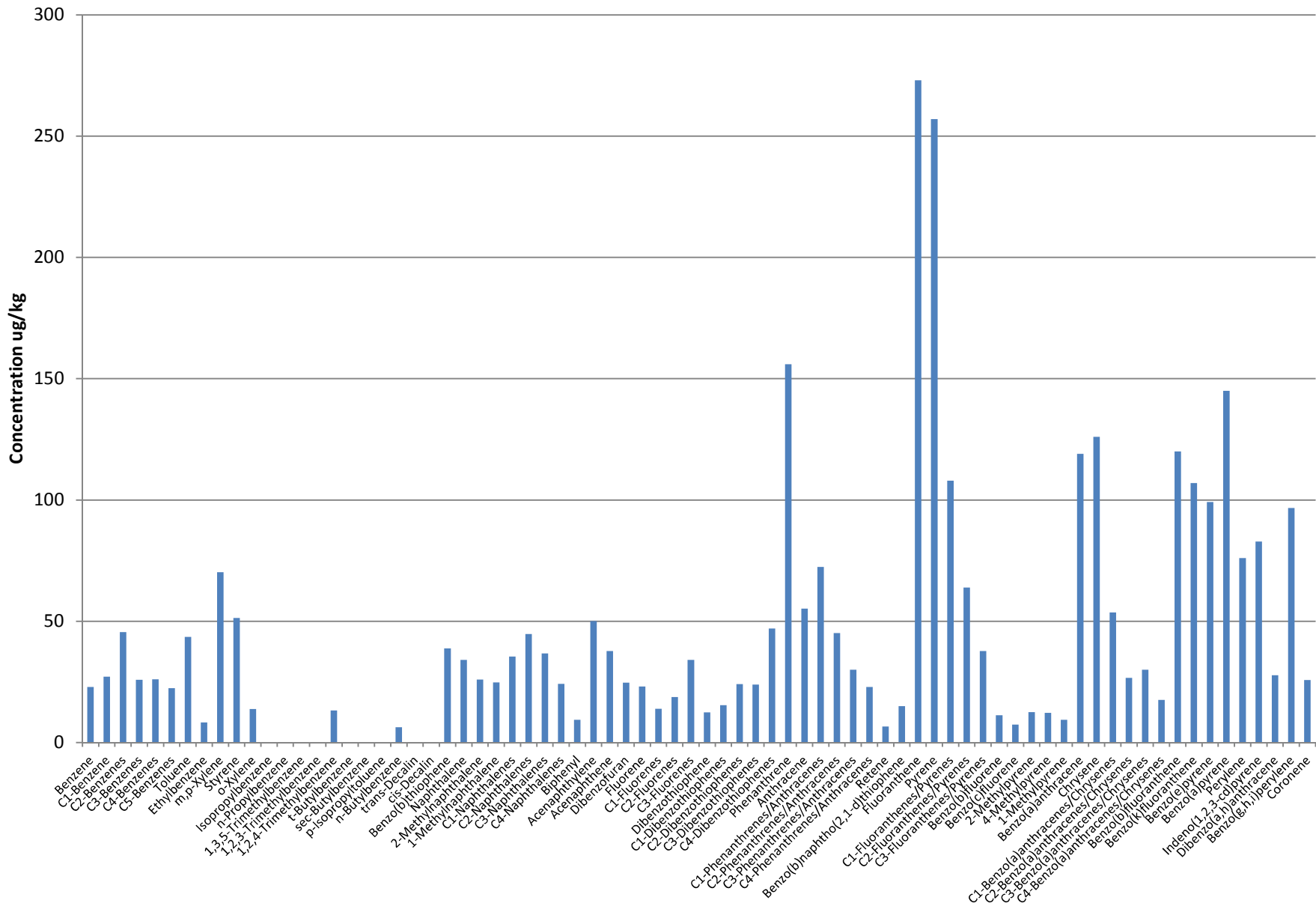
File :P:\Projects A-M\GEI\G04048 West Station\MC30898 GC-FID Raw\B
... G44612.D
Operator : RubenP
Instrument : GCBG
Acquired : 5 Jun 2014 12:27 pm using AcqMethod FORENSICDUAL.M
Sample Name: MC30898-4
Misc Info : OP38384,GBG1703,35,,,2,1



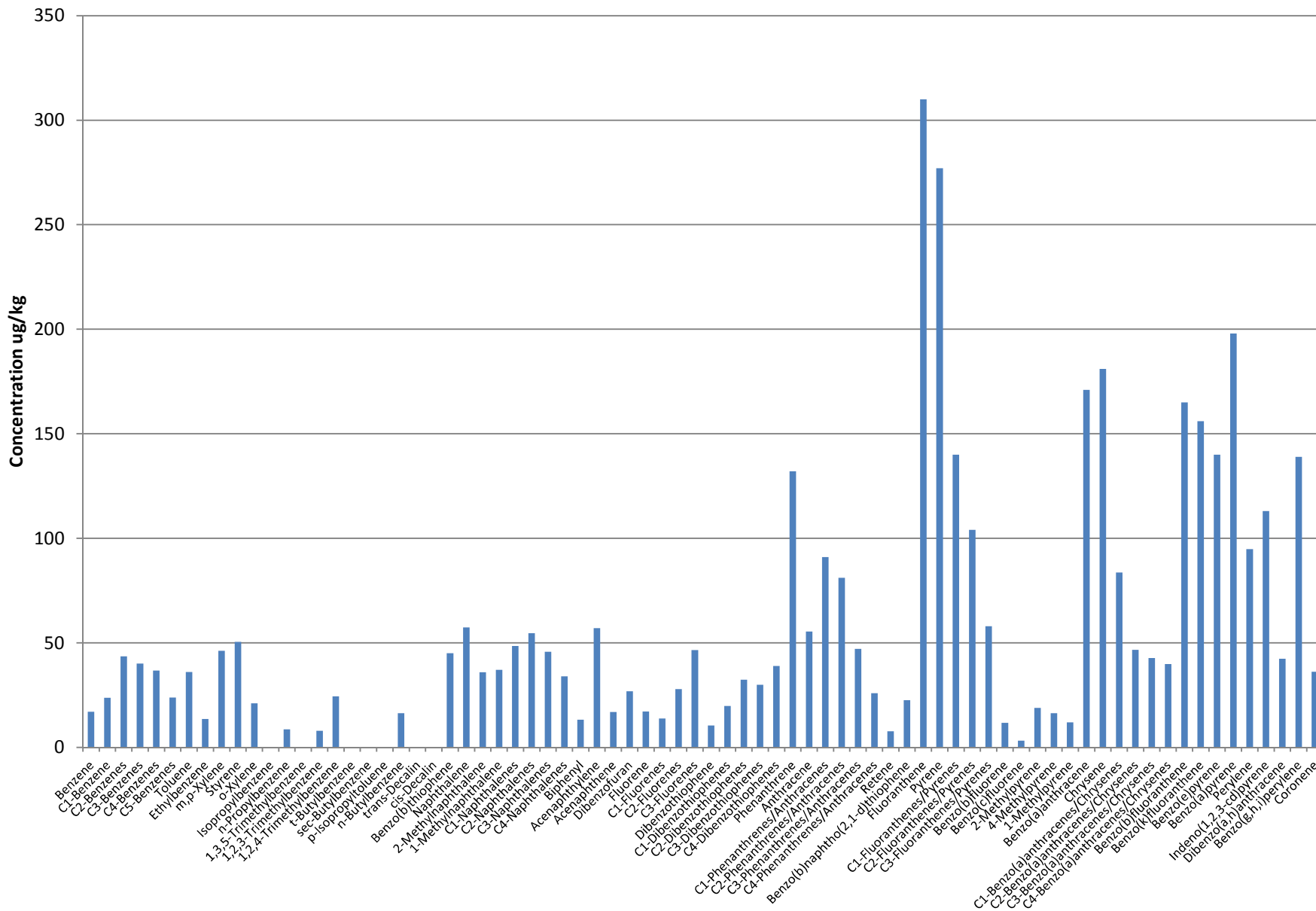
Appendix B

Bar Graphs

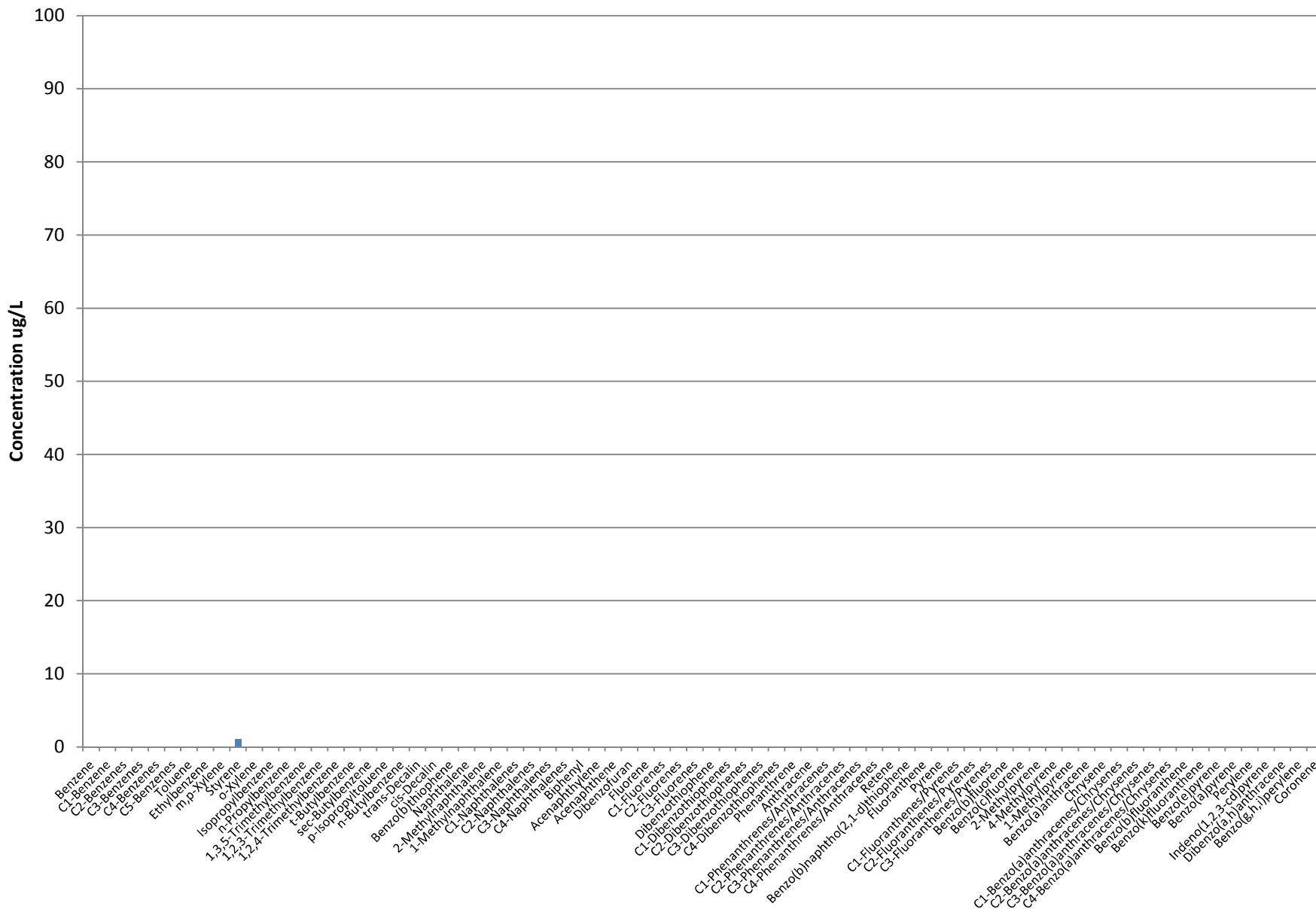
SEEP-1-0-3"



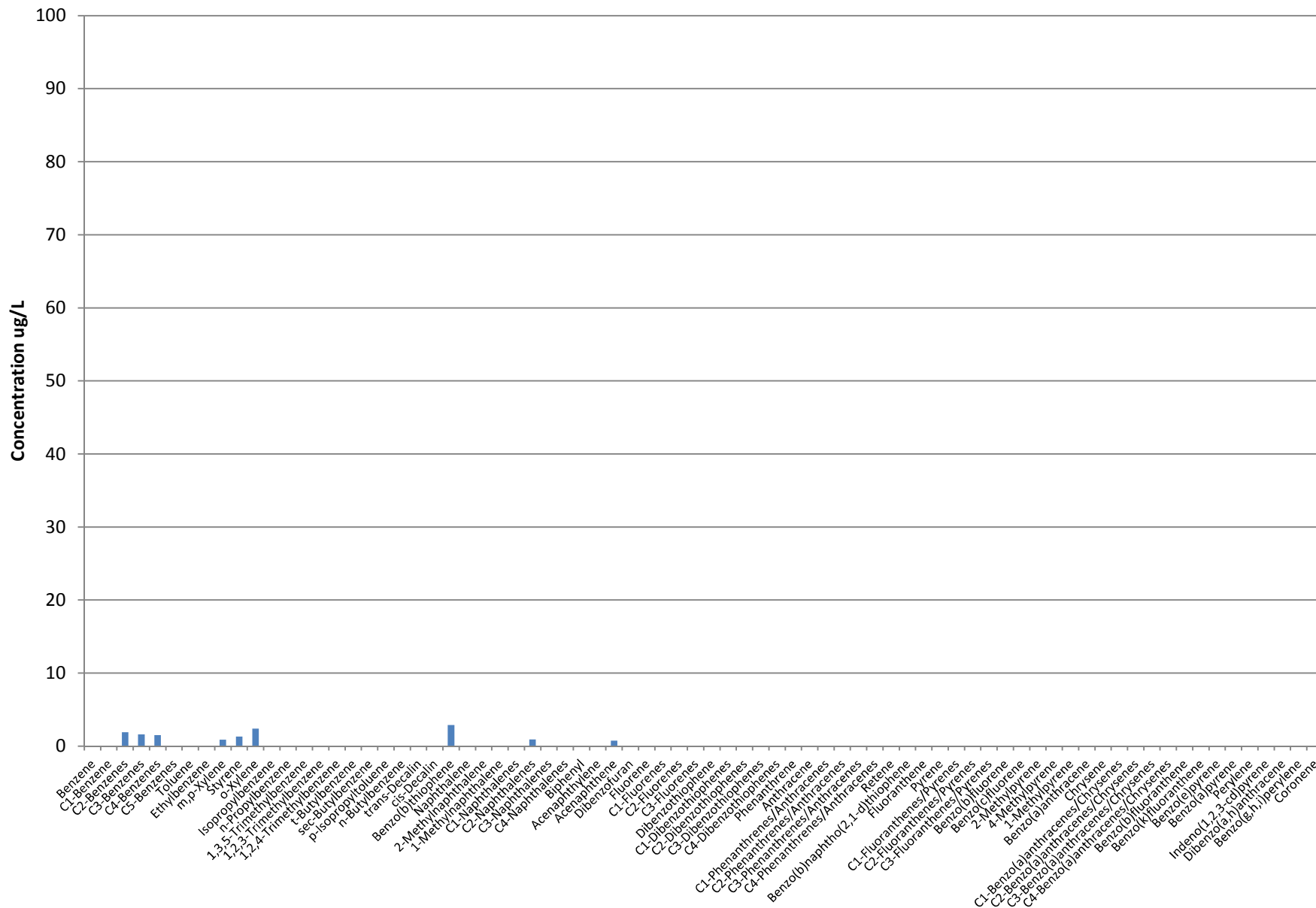
SEEP-1-12-14"



MW-26S



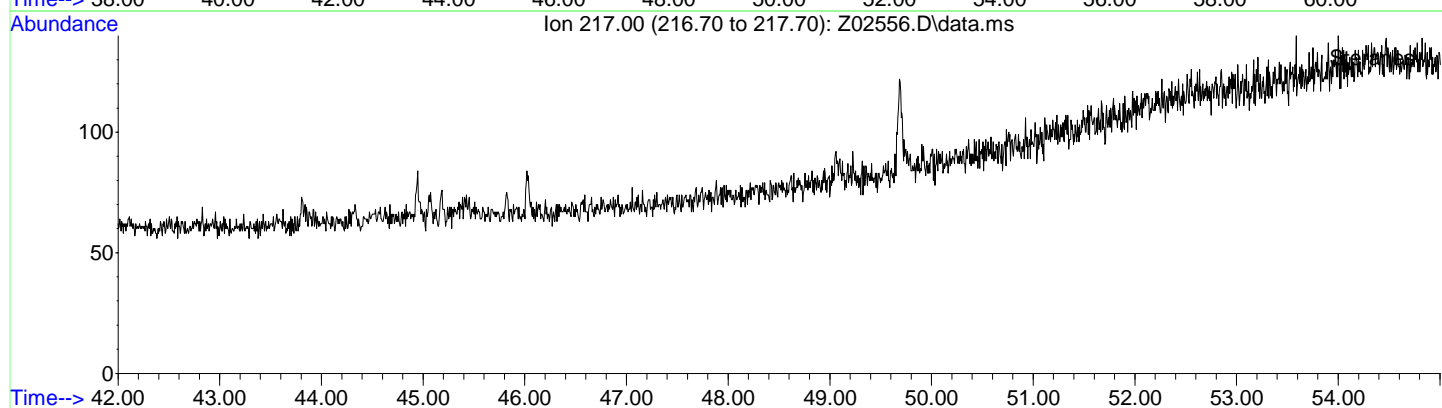
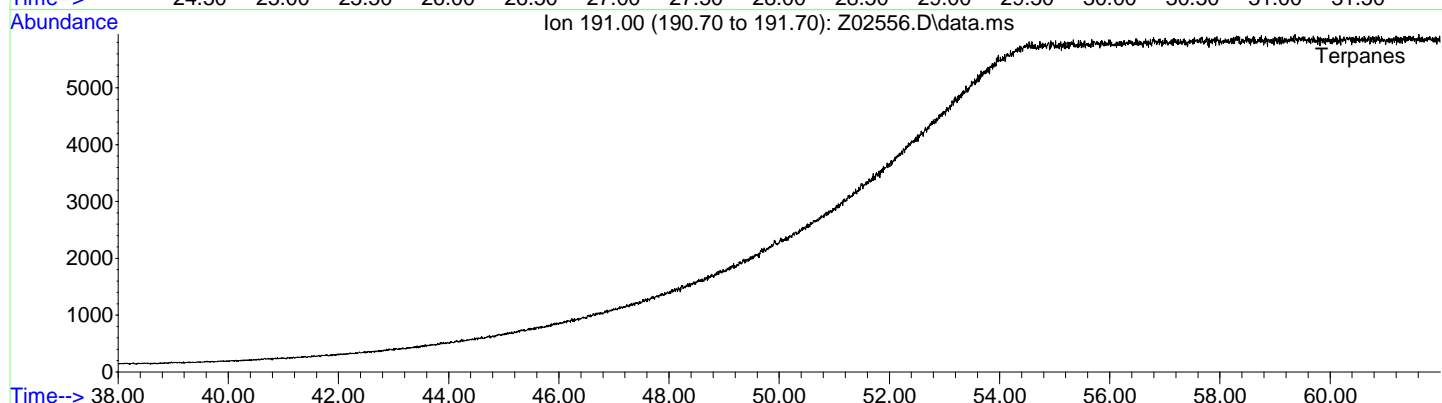
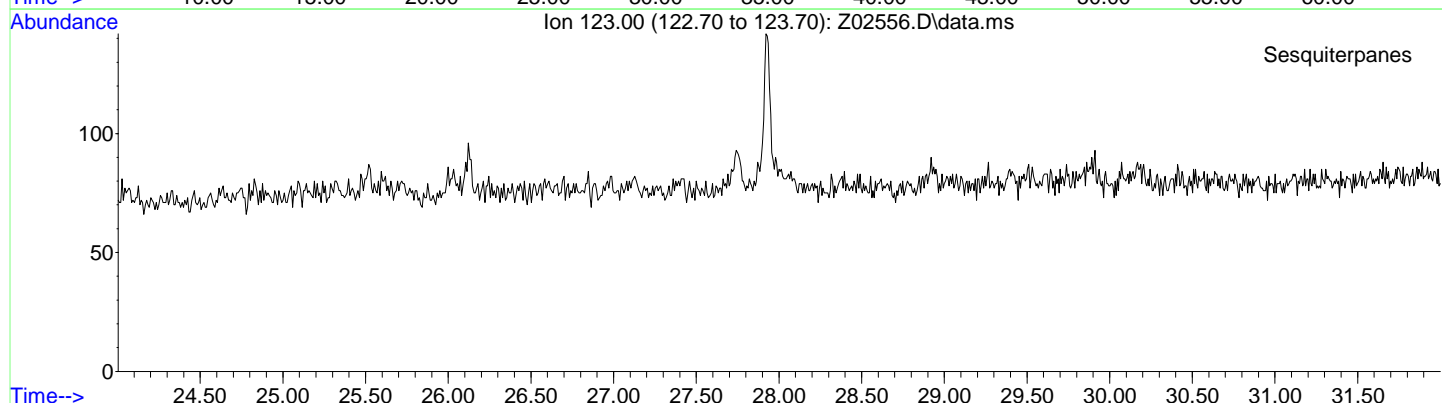
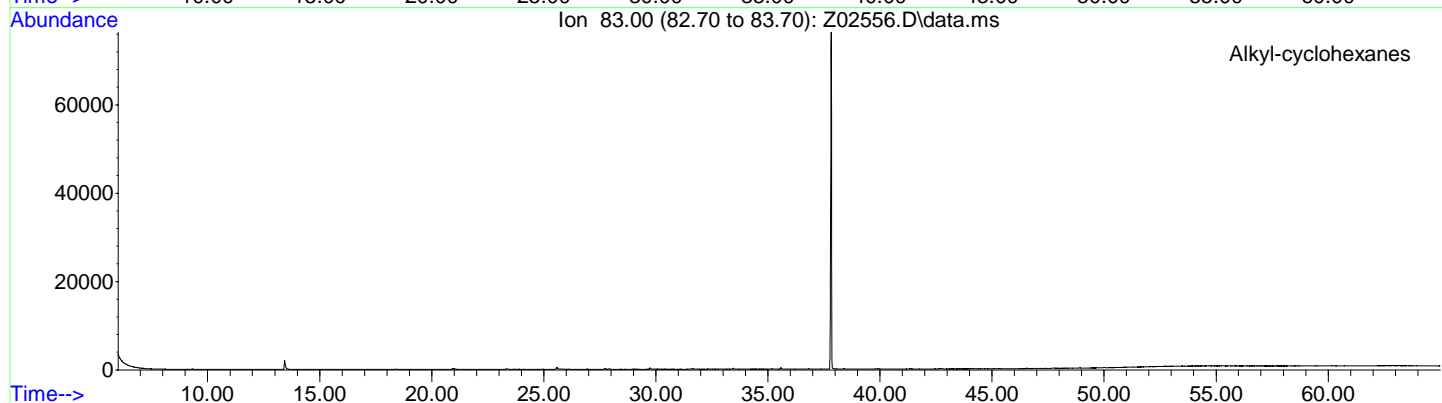
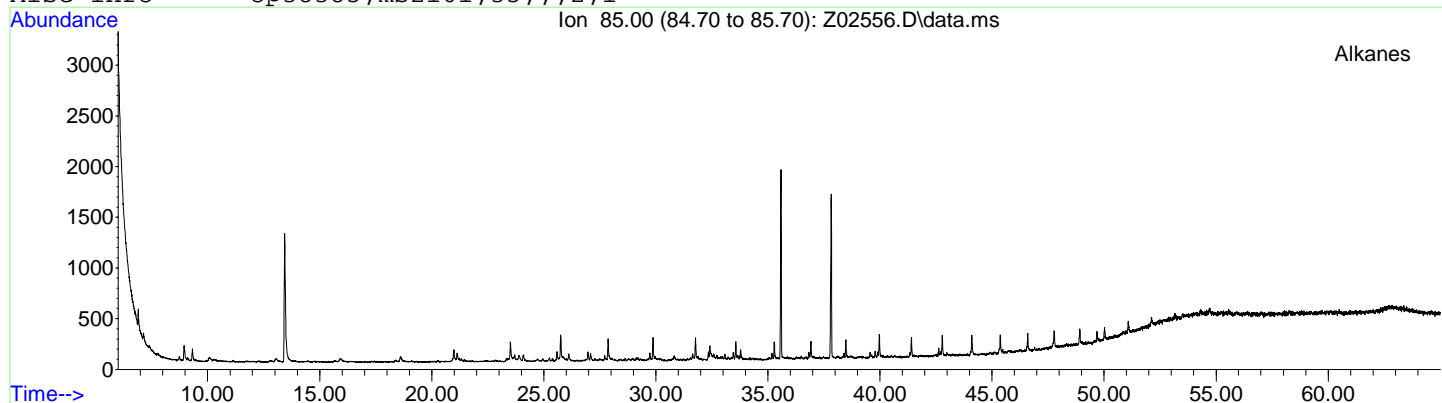
SEEP-1



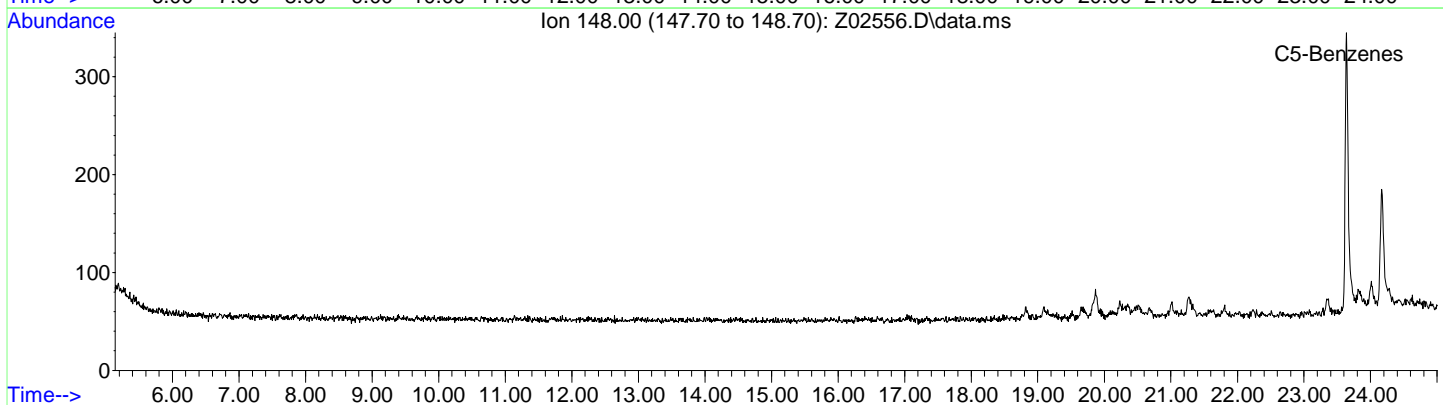
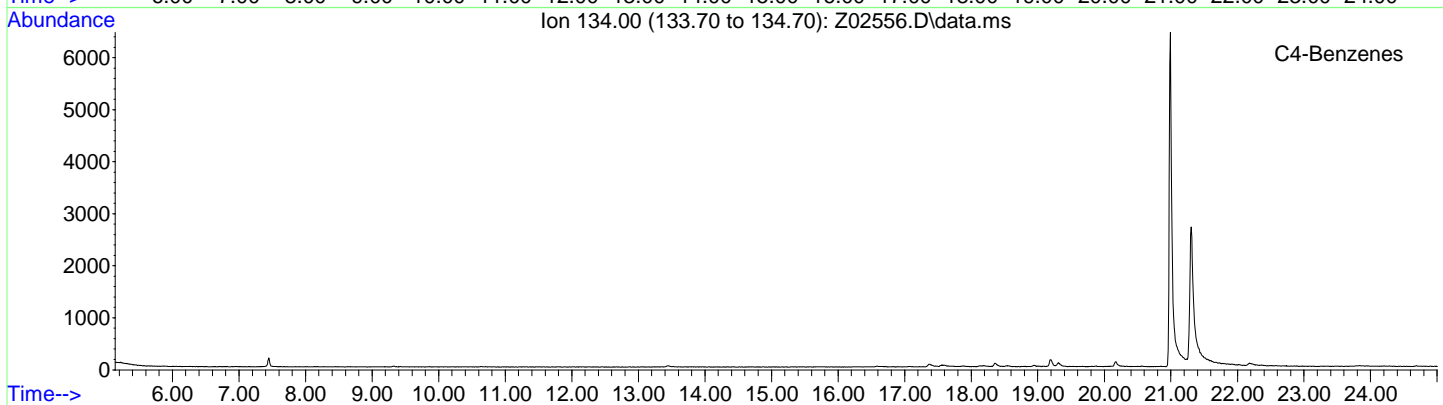
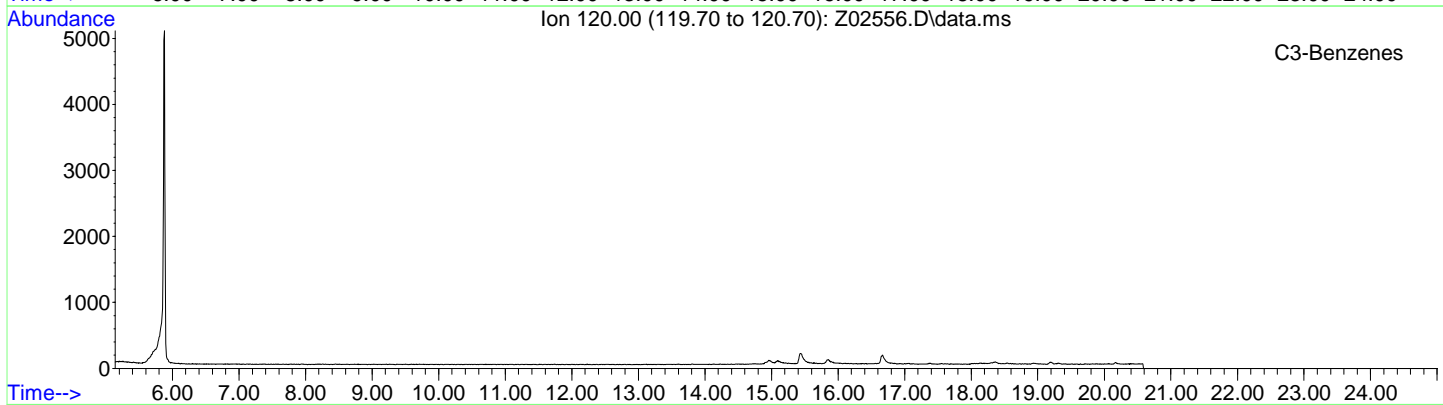
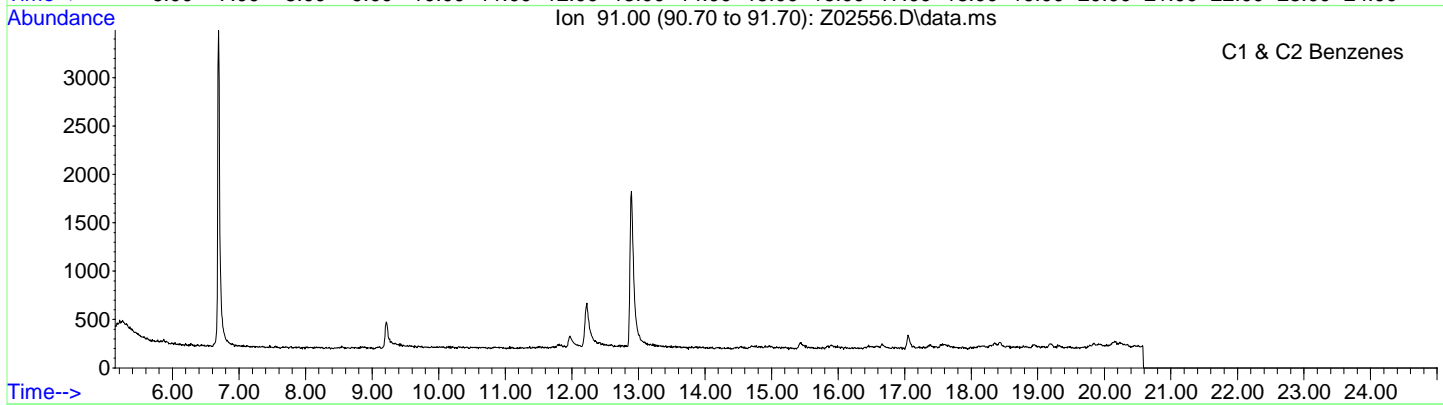
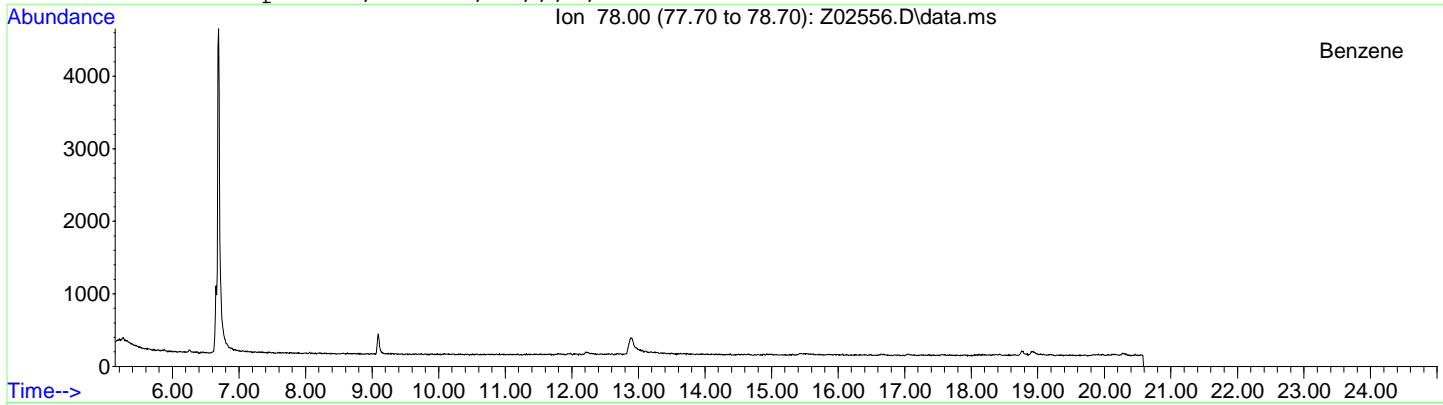
Appendix C

Extracted Ion Current Profiles - EICPs

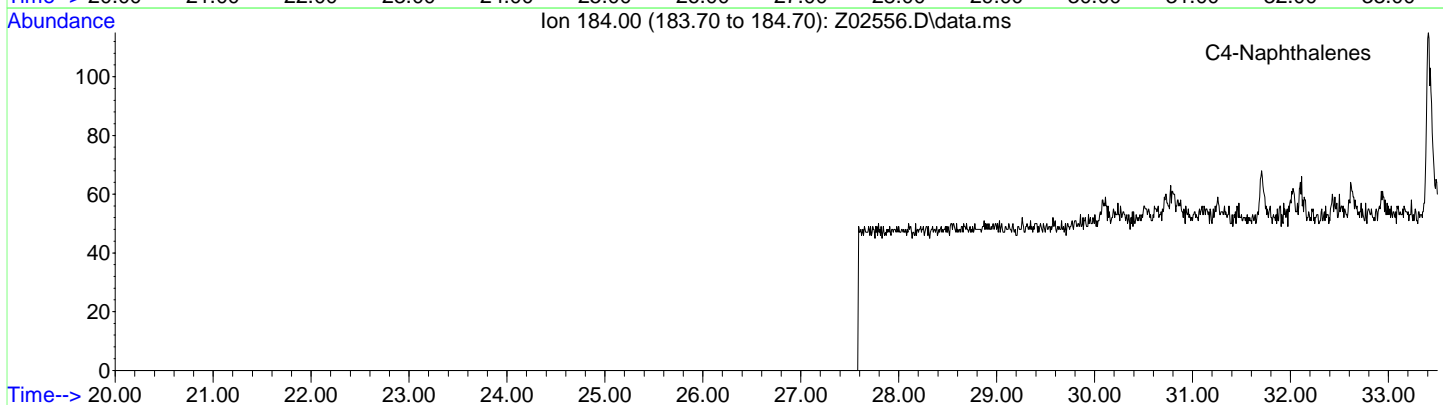
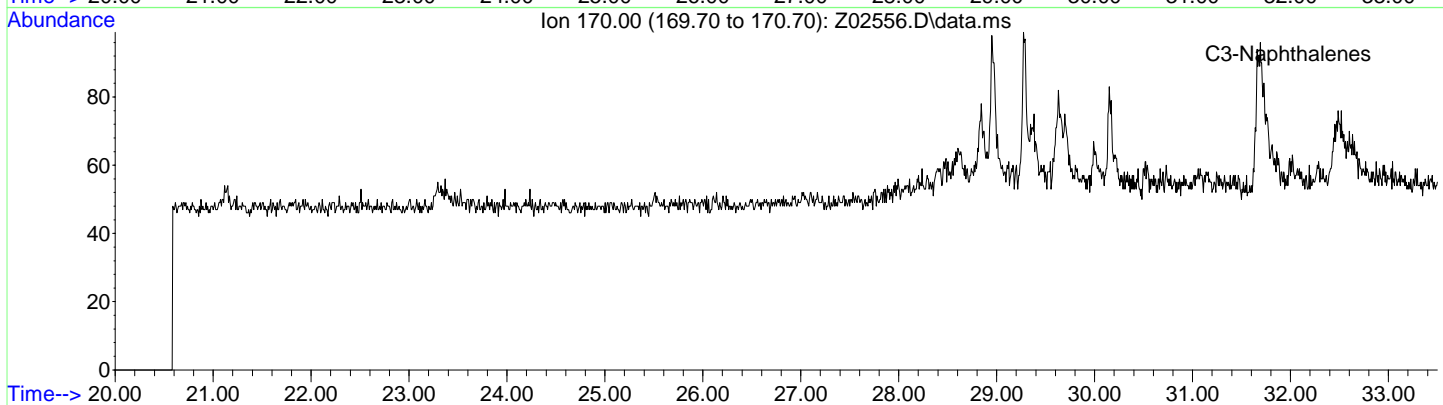
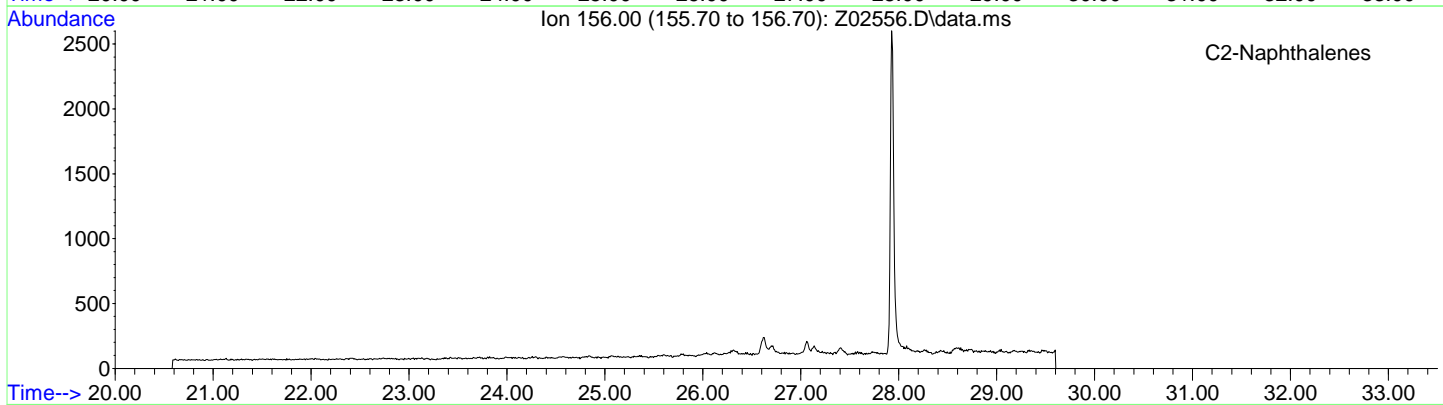
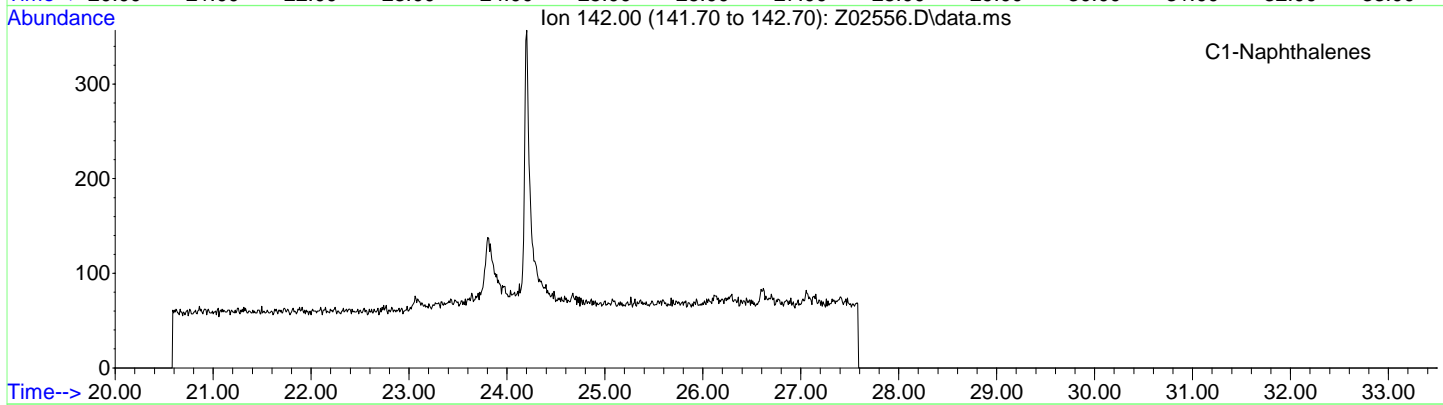
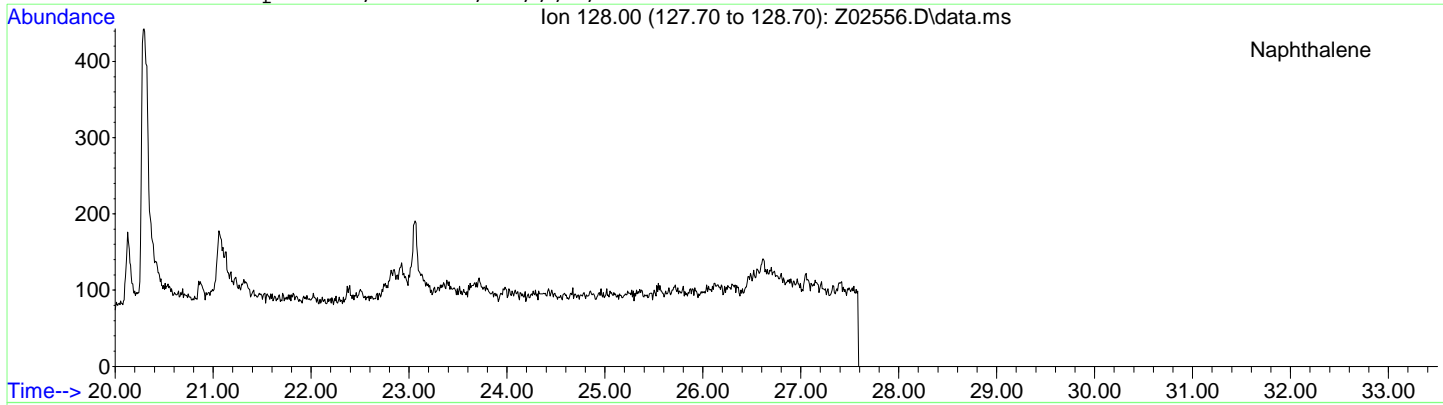
File: Z:\2\data\Z140605\Z02556.D
Date Acquired: 6 Jun 2014 8:32 pm
Sample Name: mc30898-1
Misc Info: op38385,msz101,35,,2,1



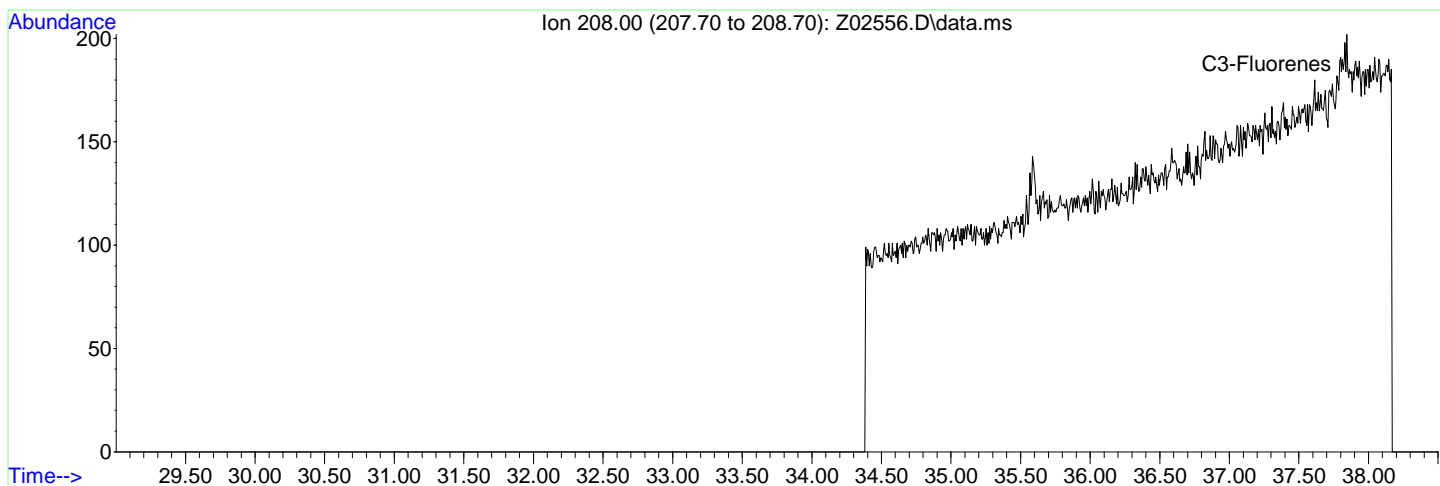
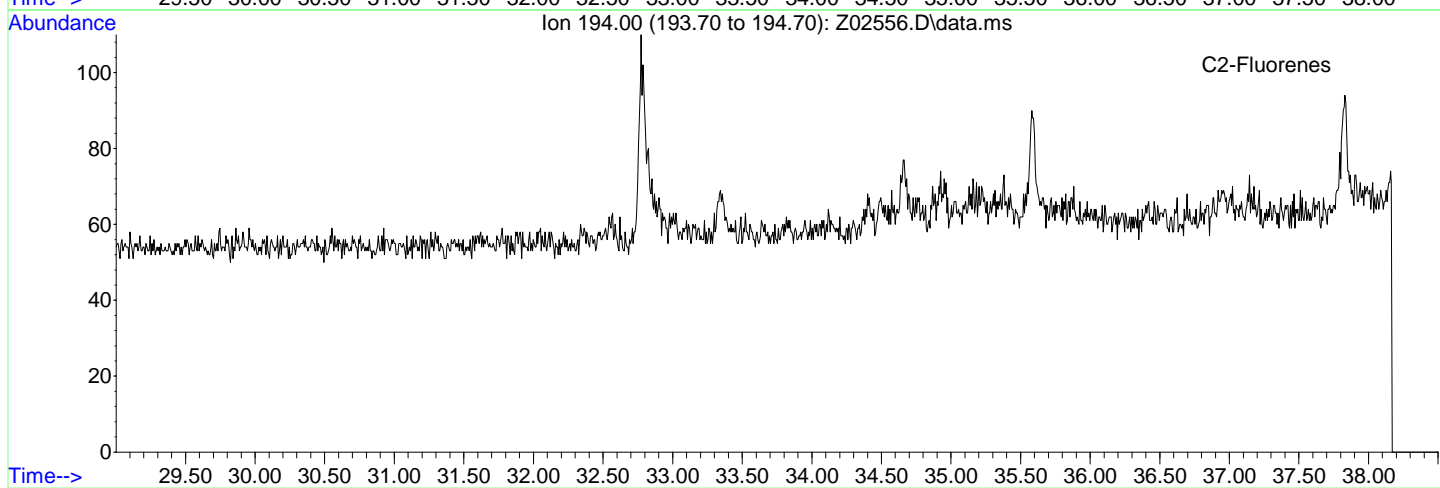
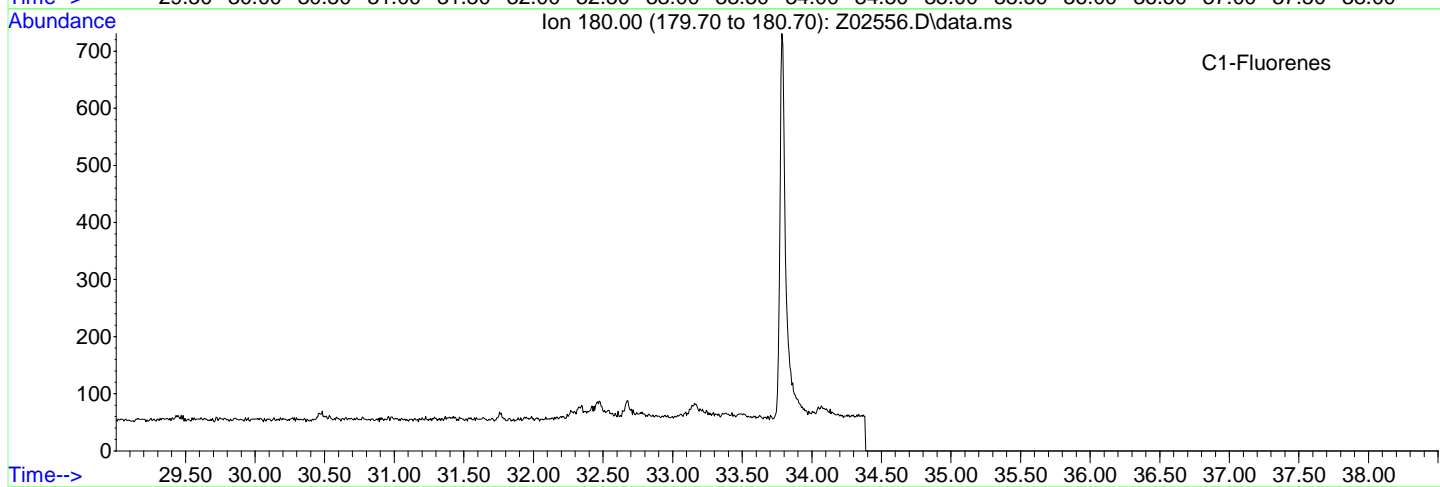
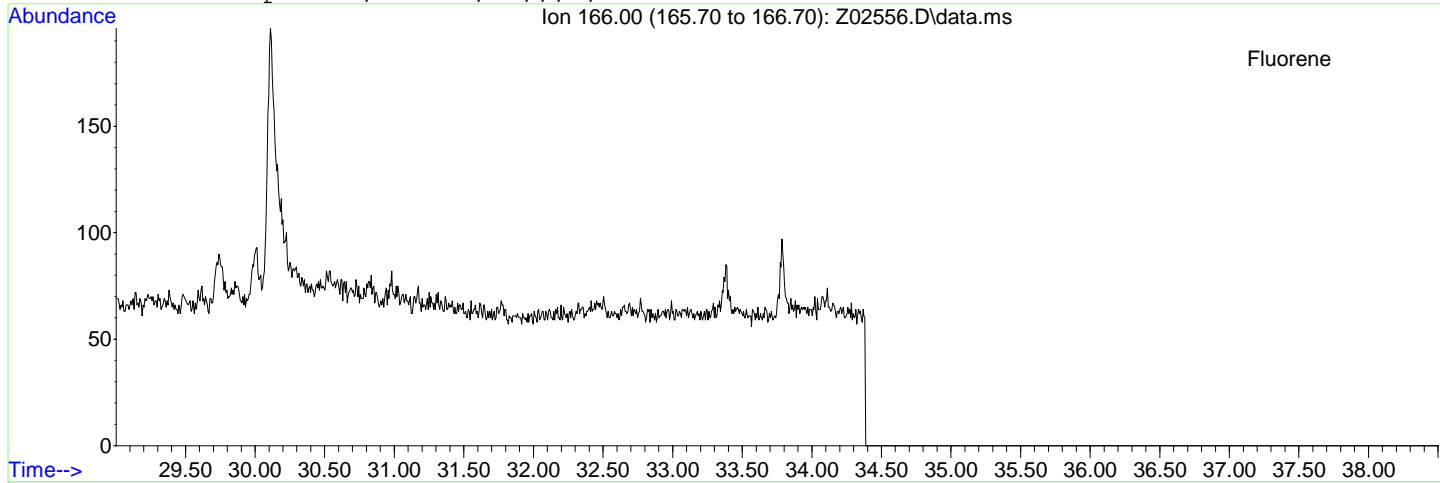
File: Z:\2\data\Z140605\Z02556.D
 Date Acquired: 6 Jun 2014 8:32 pm
 Sample Name: mc30898-1
 Misc Info: op38385,msz101,35,,,2,1



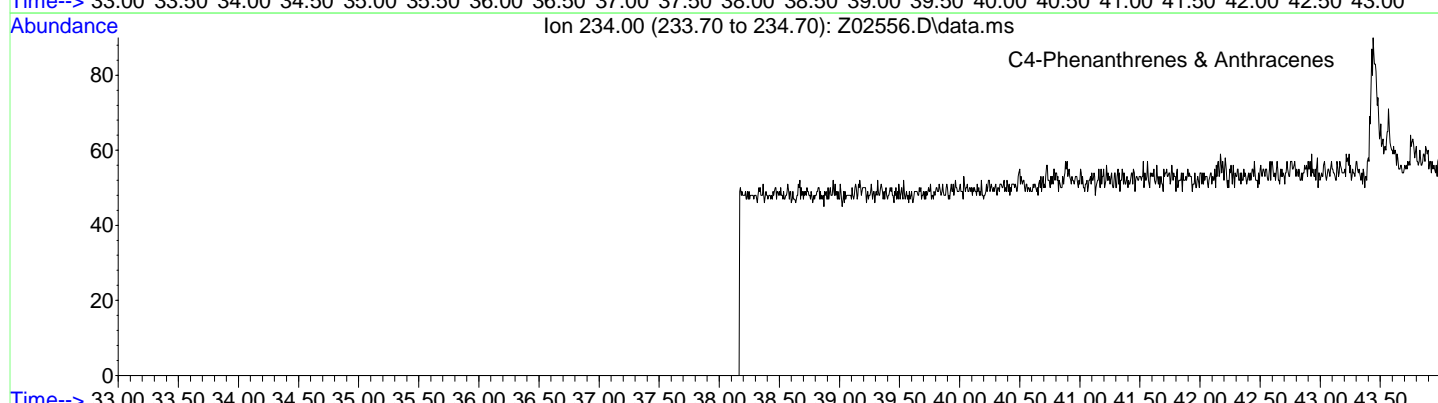
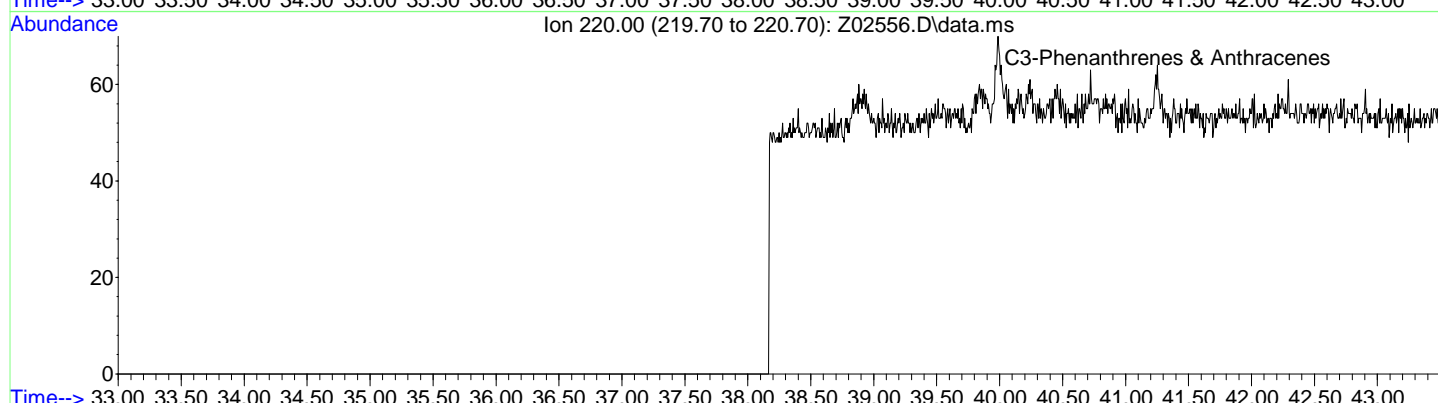
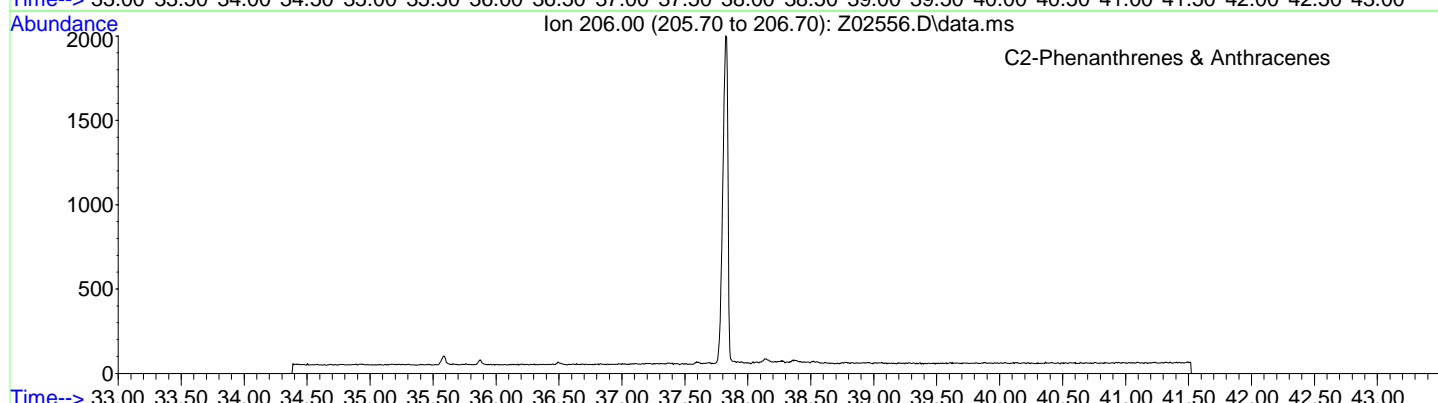
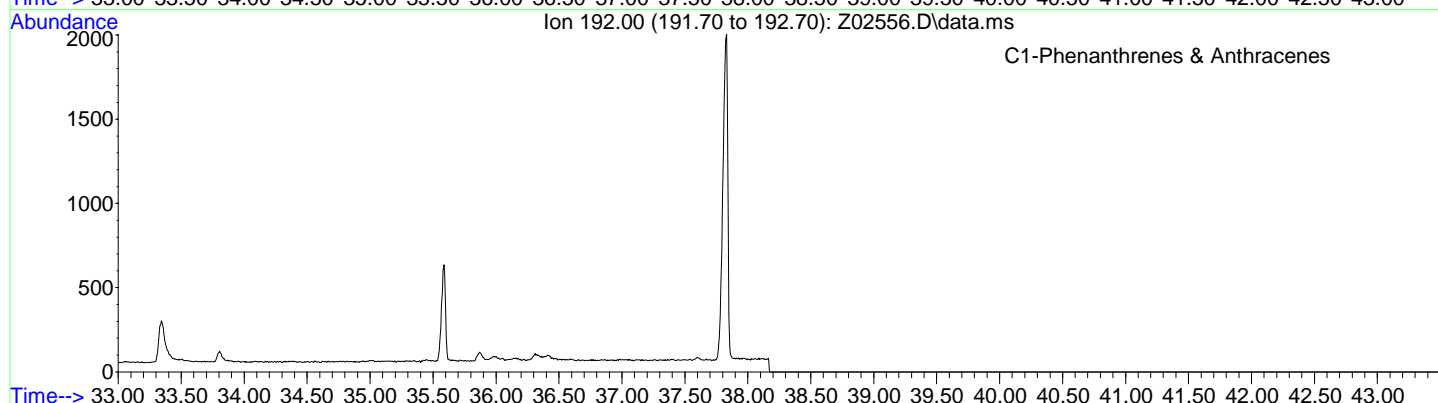
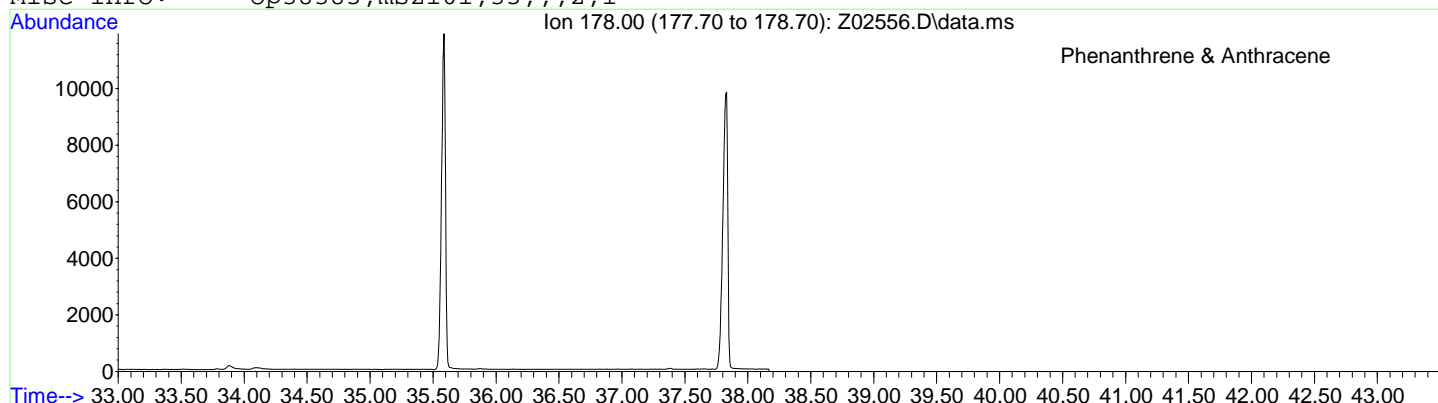
File: Z:\2\data\Z140605\Z02556.D
 Date Acquired: 6 Jun 2014 8:32 pm
 Sample Name: mc30898-1
 Misc Info: op38385,msz101,35,,2,1



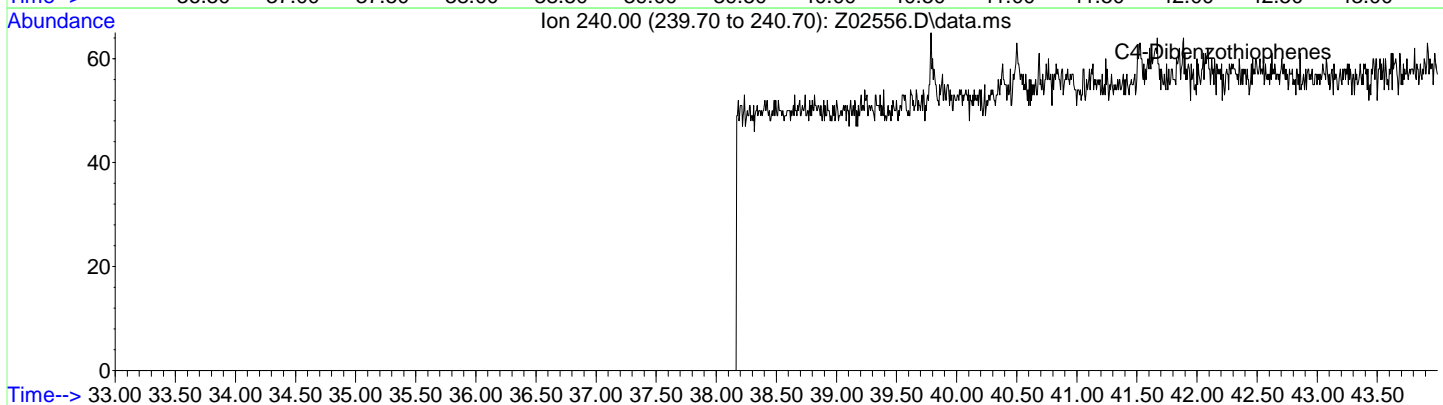
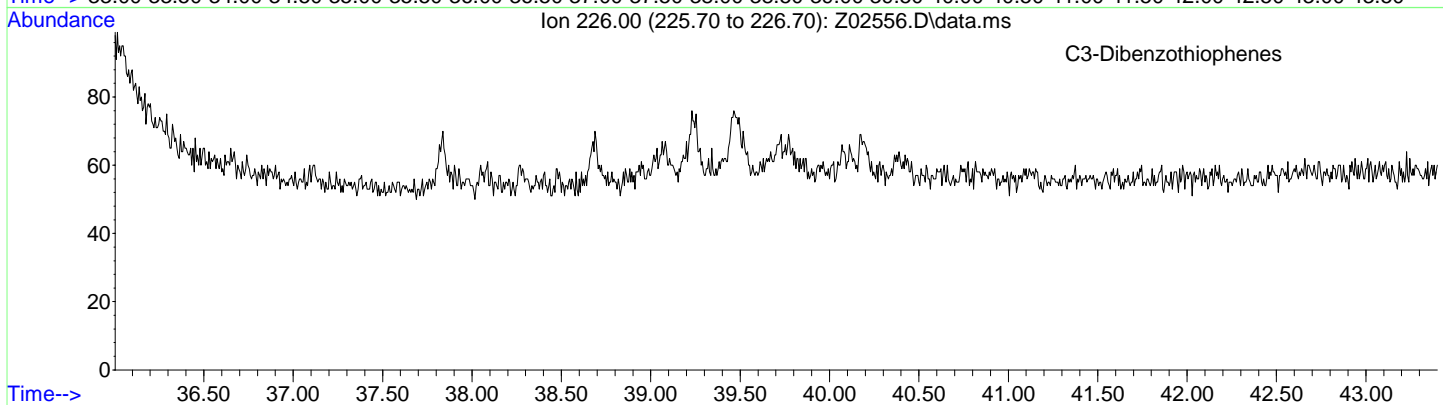
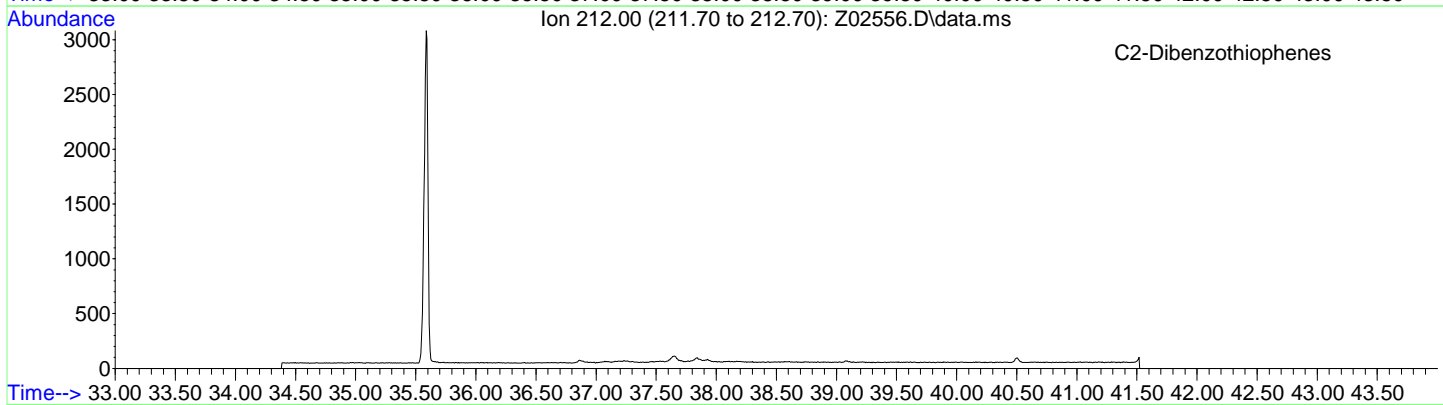
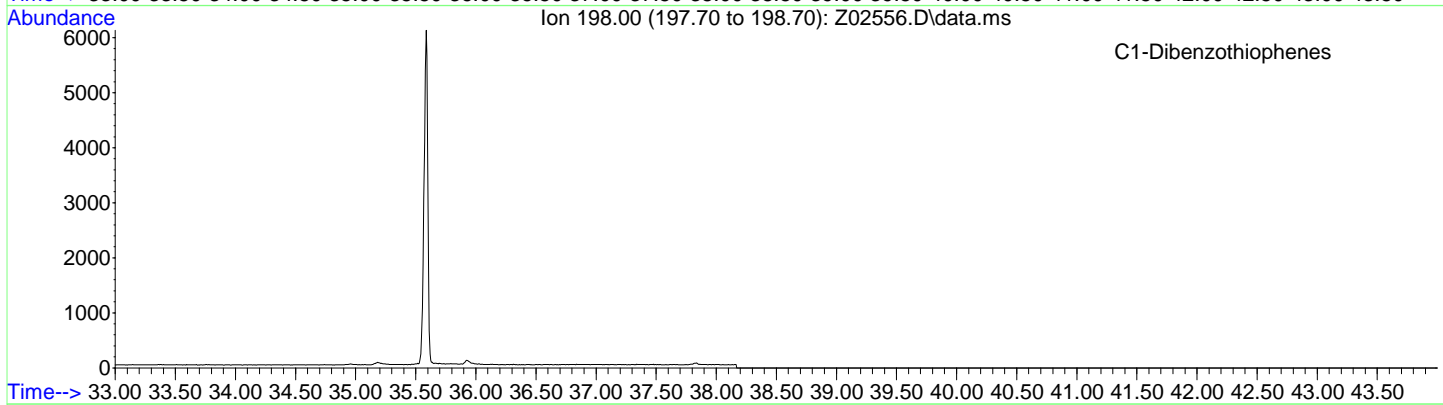
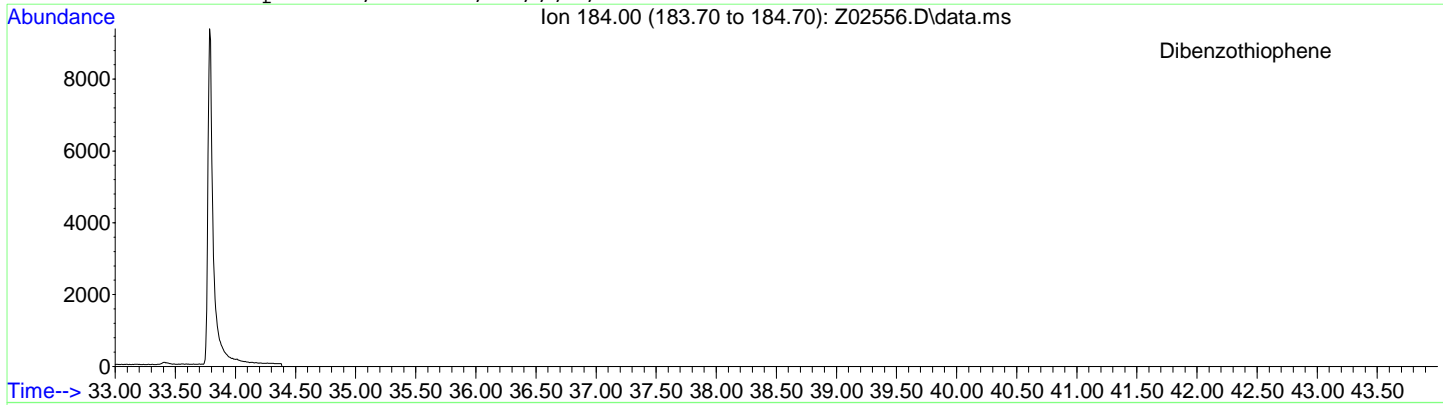
File: Z:\2\data\Z140605\Z02556.D
 Date Acquired: 6 Jun 2014 8:32 pm
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: mc30898-1
 Misc Info: op38385,msz101,35,,,2,1



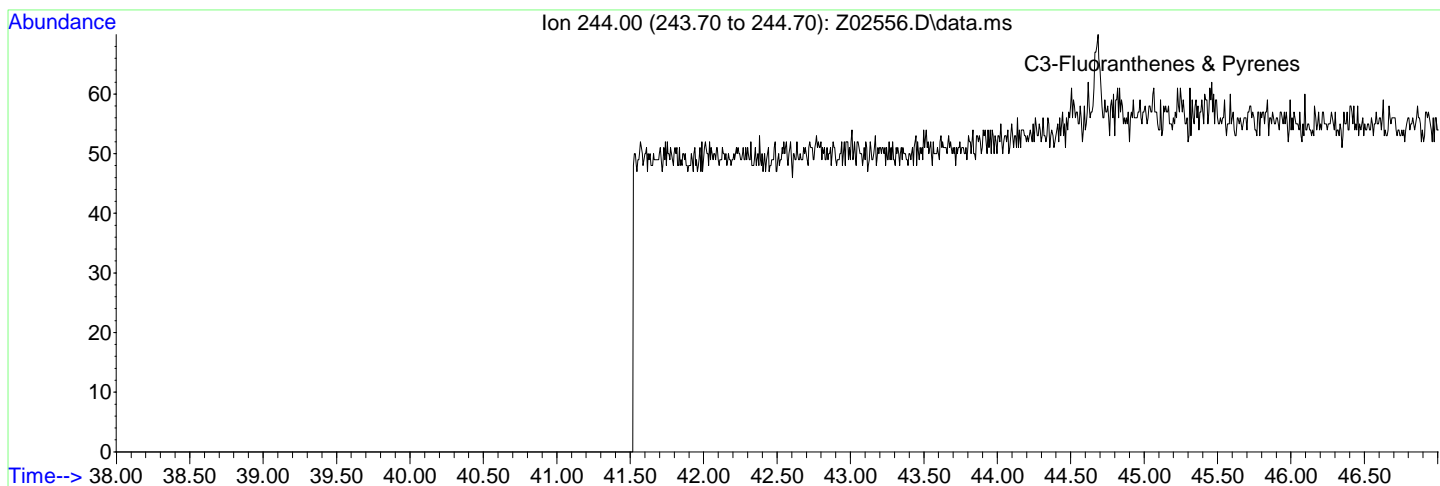
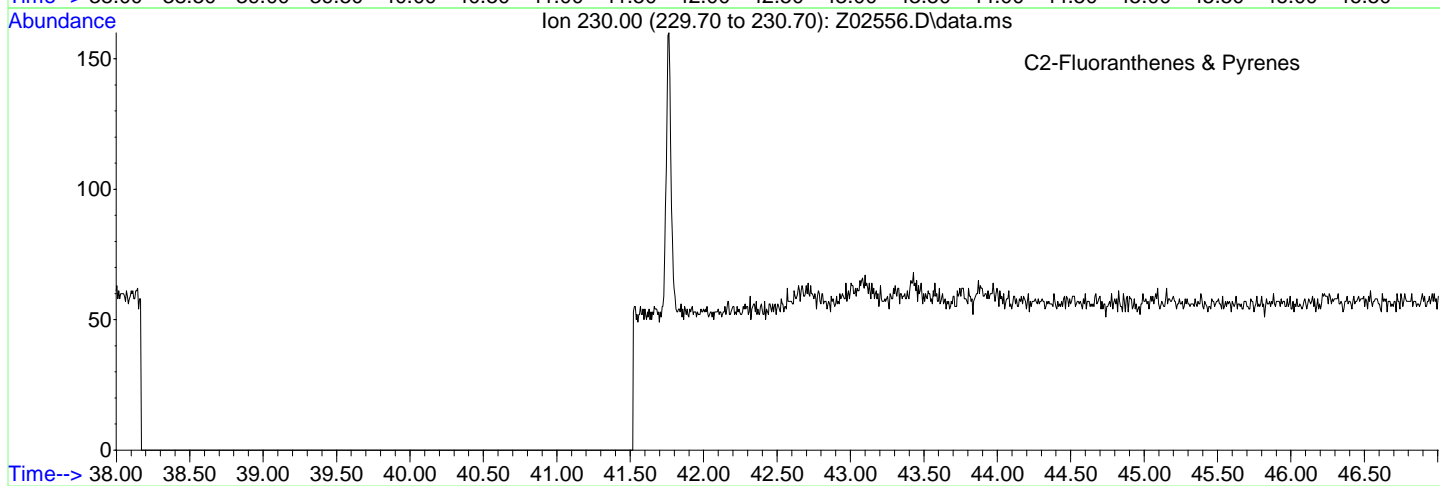
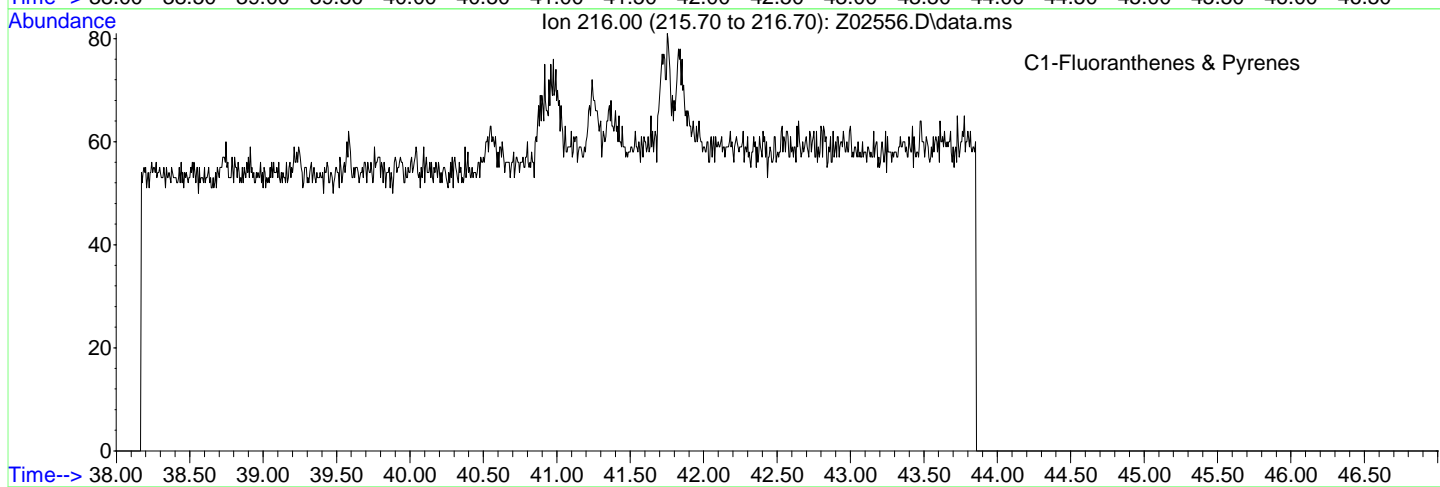
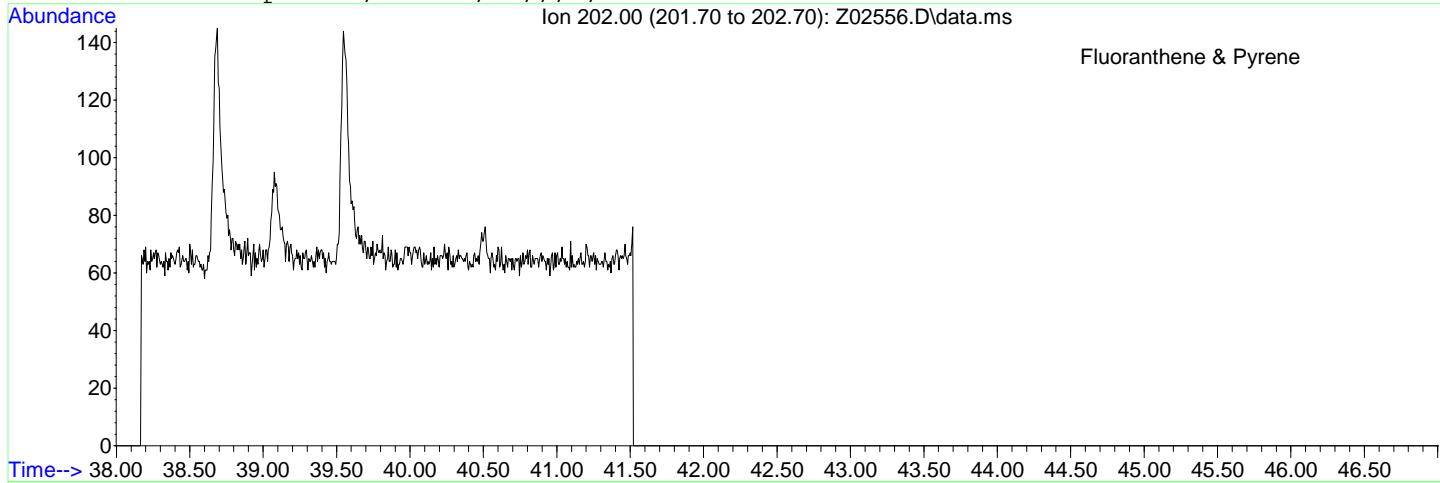
File: Z:\2\data\Z140605\Z02556.D
Date Acquired: 6 Jun 2014 8:32 pm
Sample Name: mc30898-1
Misc Info: op38385,msz101,35,,,2,1



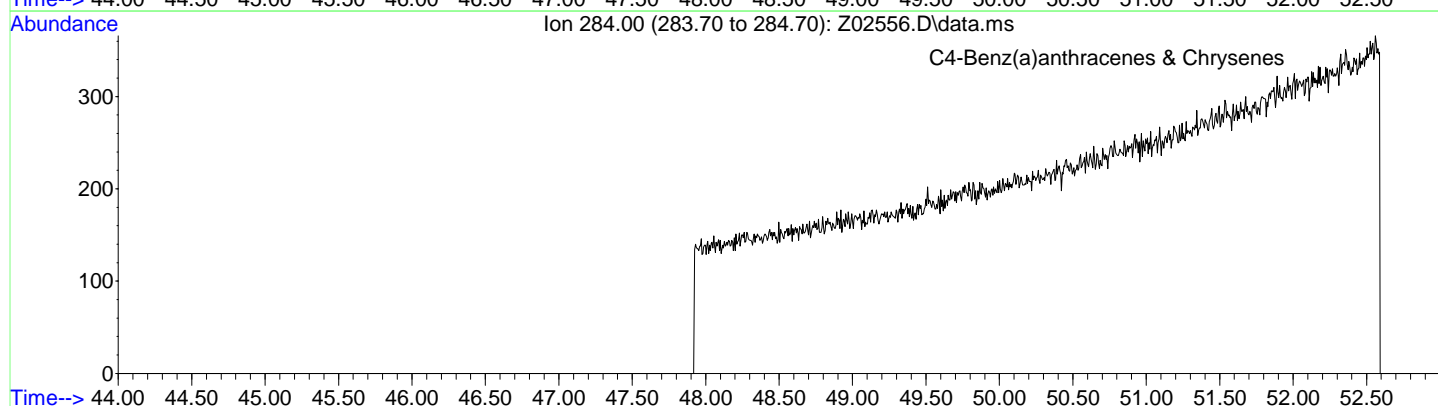
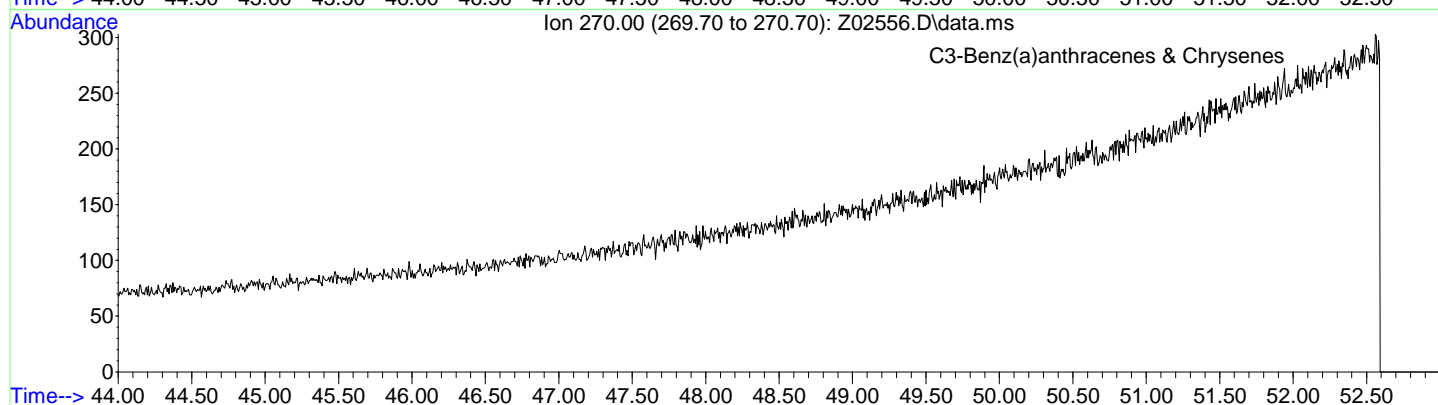
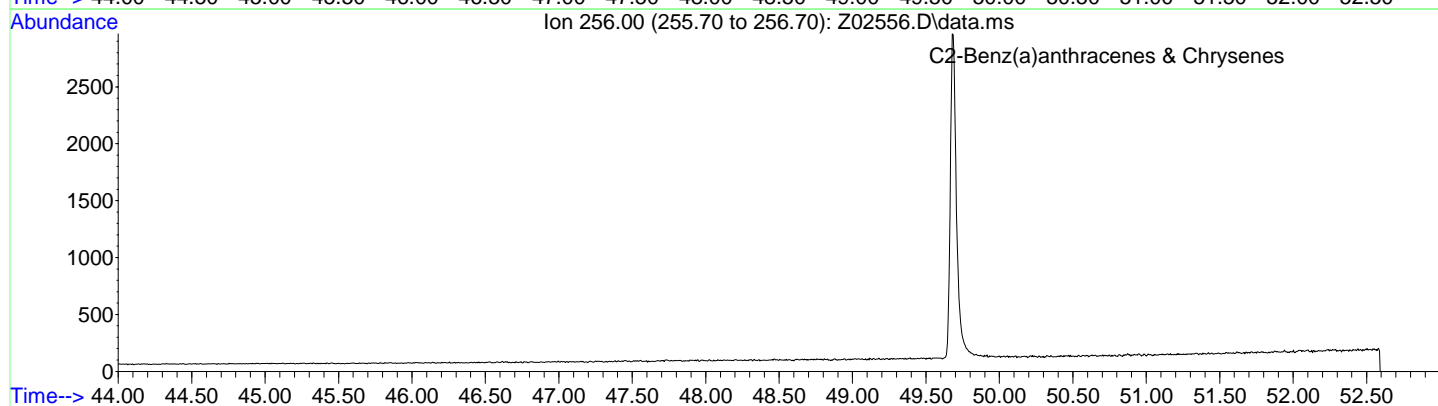
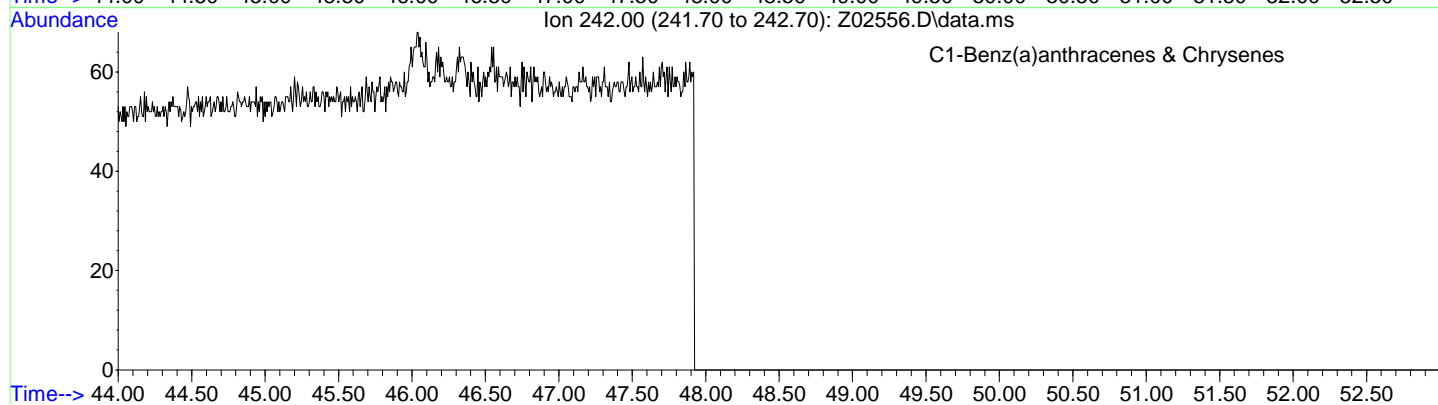
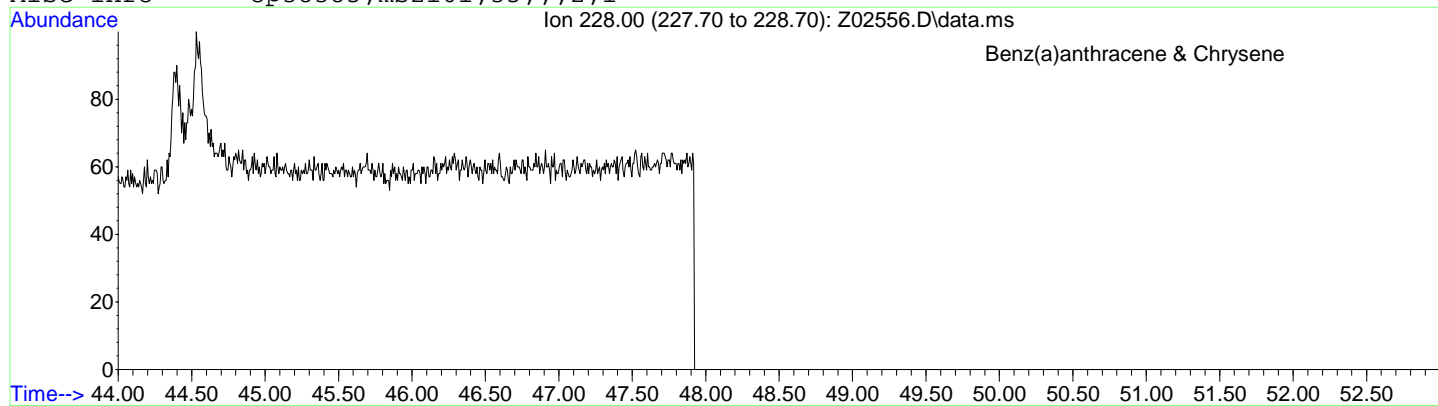
File: Z:\2\data\Z140605\Z02556.D
 Date Acquired: 6 Jun 2014 8:32 pm
 Sample Name: mc30898-1
 Misc Info: op38385,msz101,35,,,2,1



File: Z:\2\data\Z140605\Z02556.D
 Date Acquired: 6 Jun 2014 8:32 pm
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: mc30898-1
 Misc Info: op38385,msz101,35,,,2,1



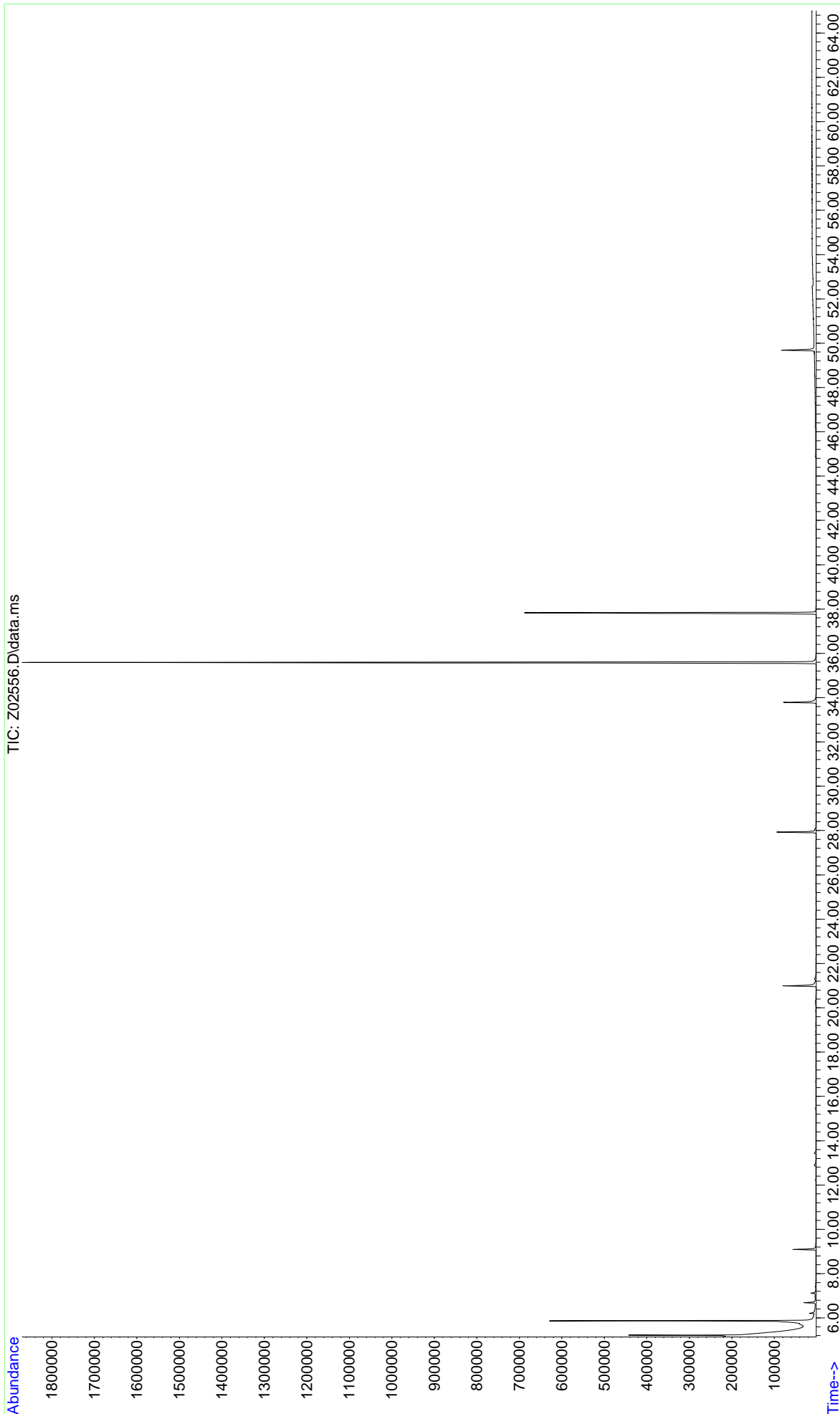
File: Z:\2\data\Z140605\Z02556.D
 Date Acquired: 6 Jun 2014 8:32 pm
 Sample Name: mc30898-1
 Misc Info: op38385,msz101,35,,2,1



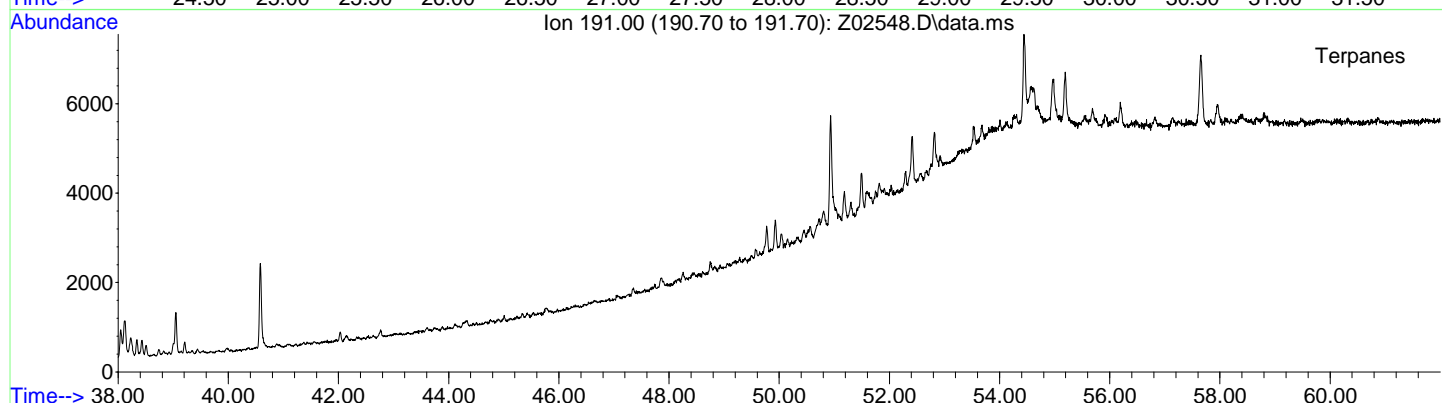
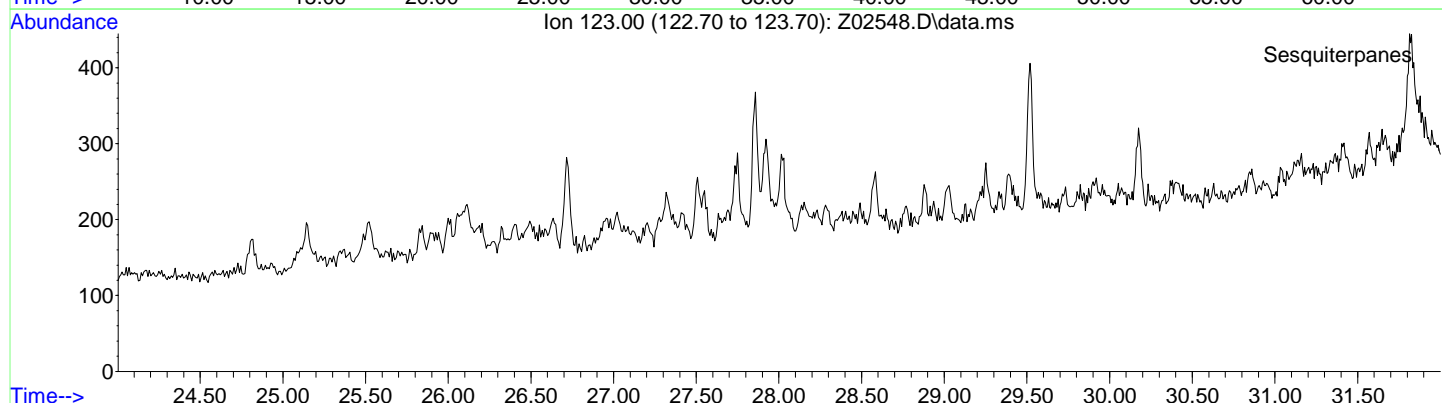
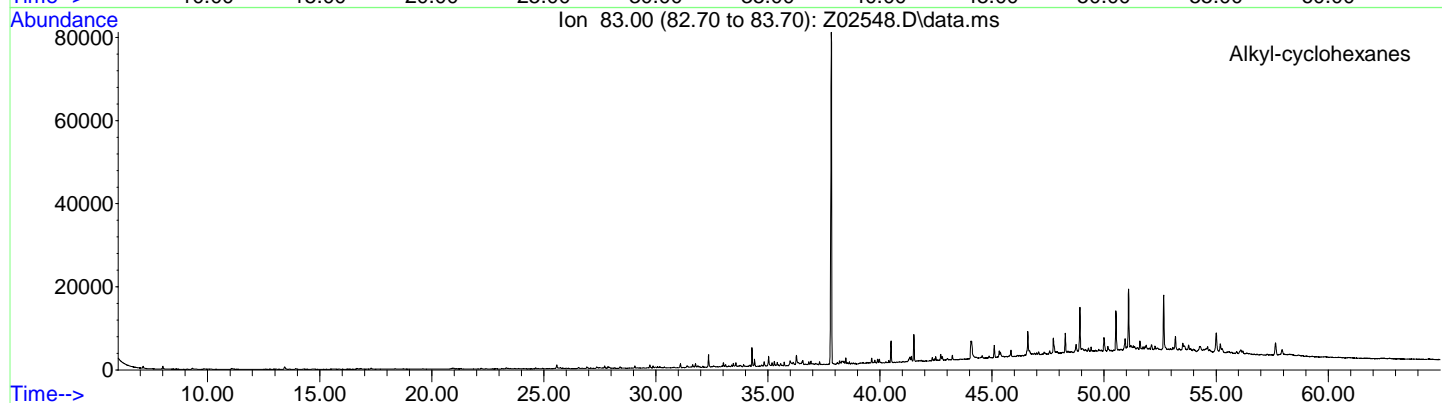
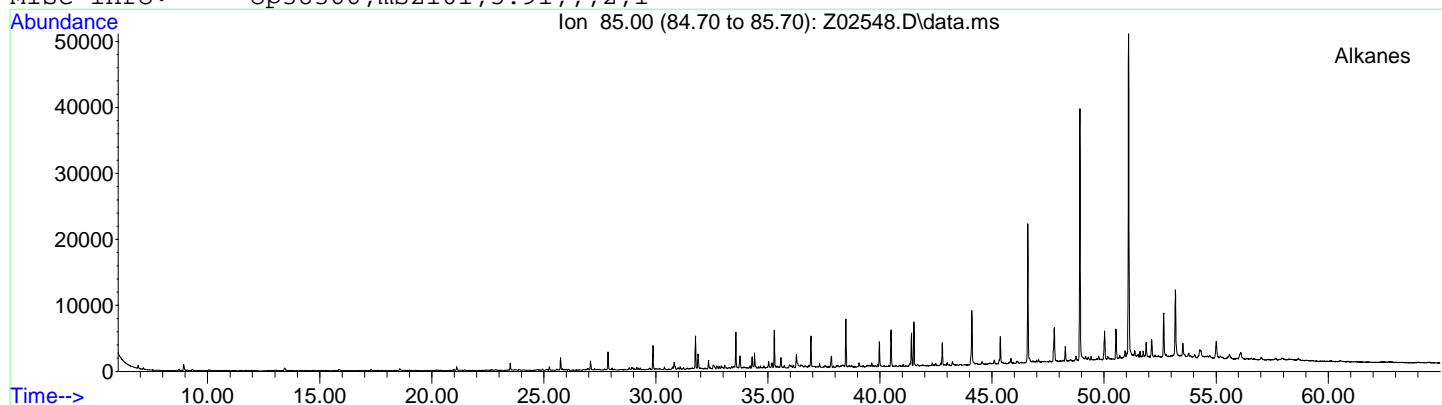
ACCUTEST

GC/MS TOTAL ION CHROMATOGRAM

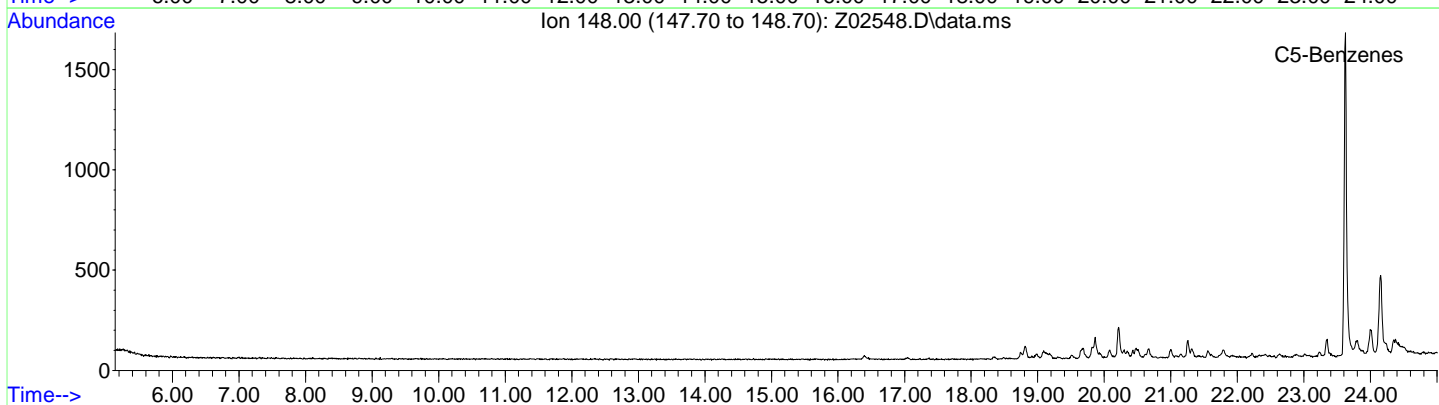
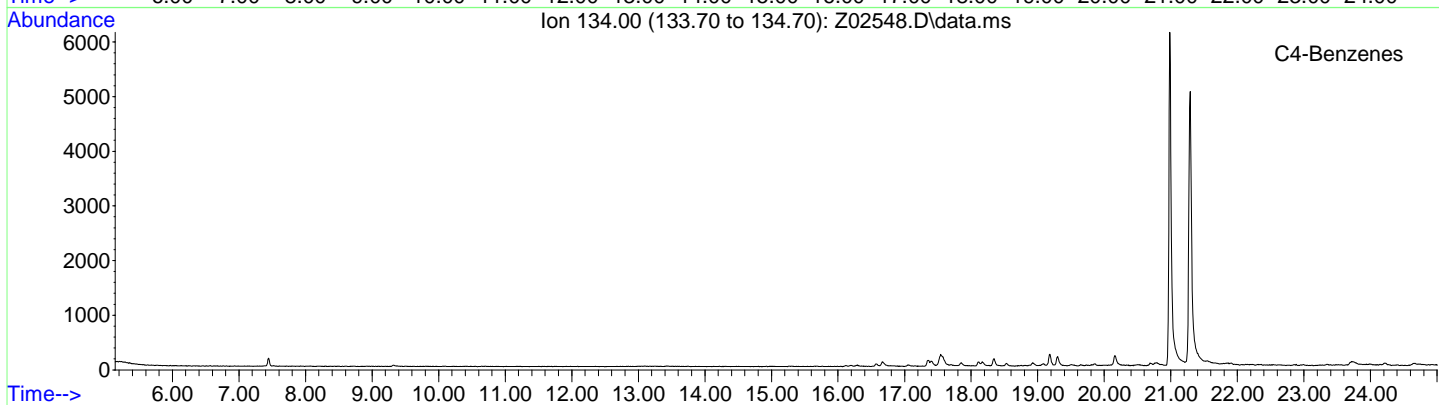
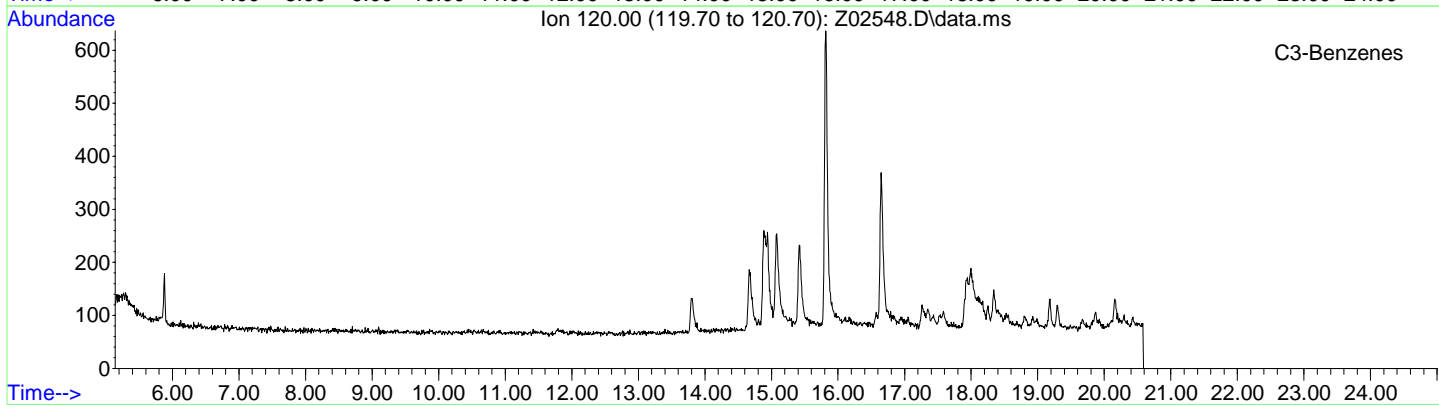
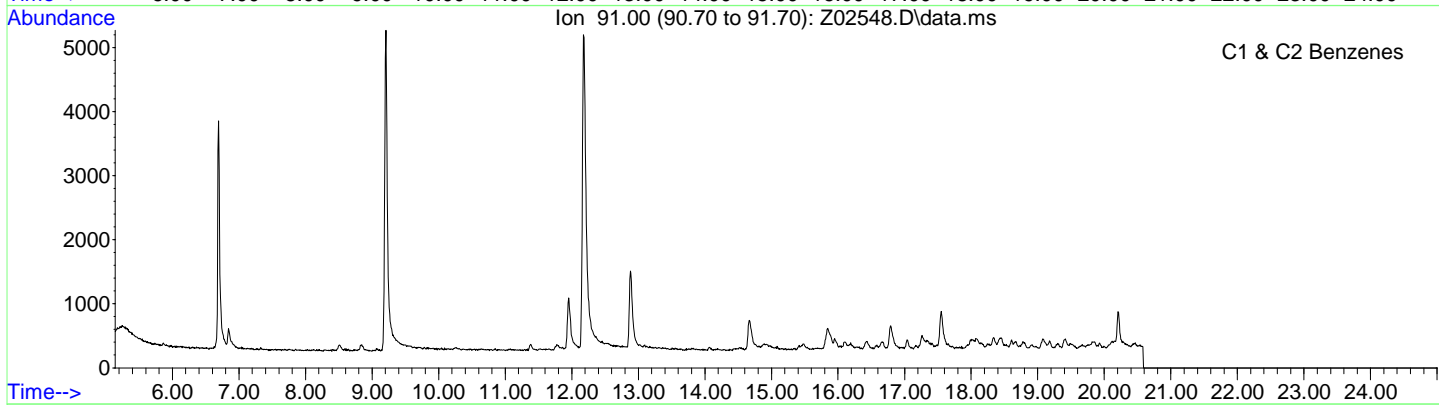
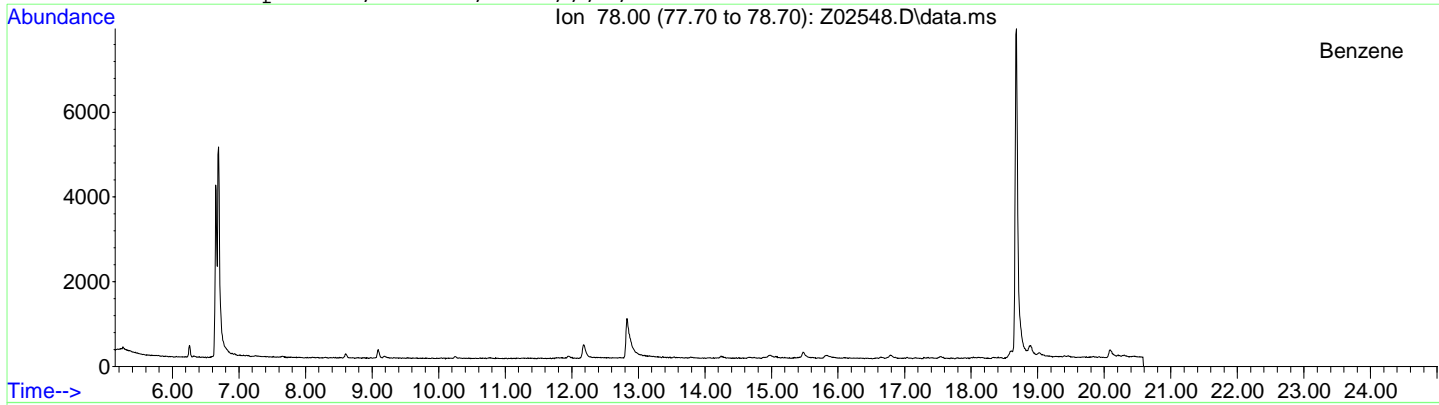
File: Z:\2\data\Z140605\Z025556.D
Date Acquired: 6 Jun 2014 8:32 pm
Method File: ZAPAHSIM-MTBE.M
Sample Name: mc30898-1
Misc Info: op38385,msz101,35,,2,1



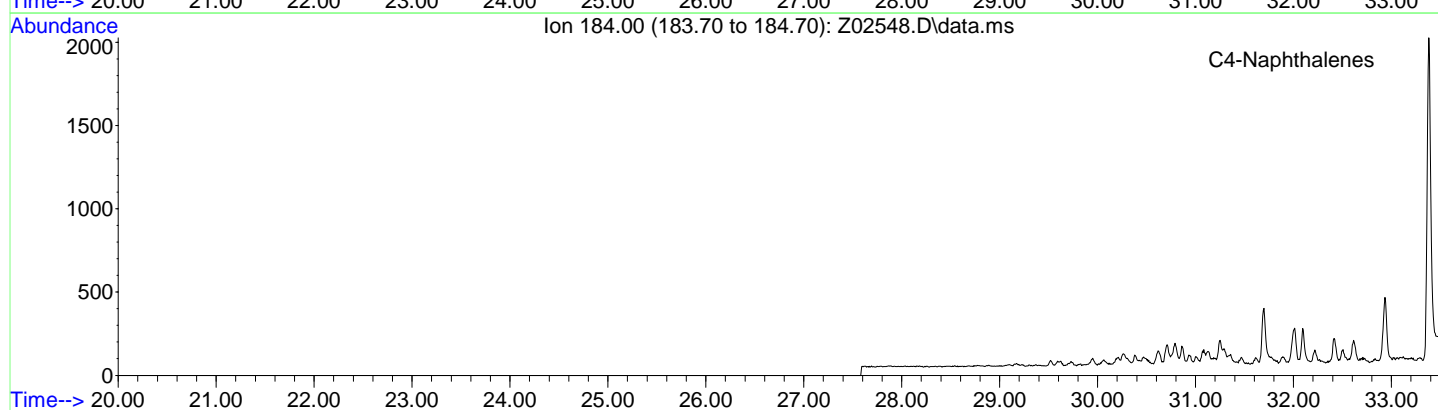
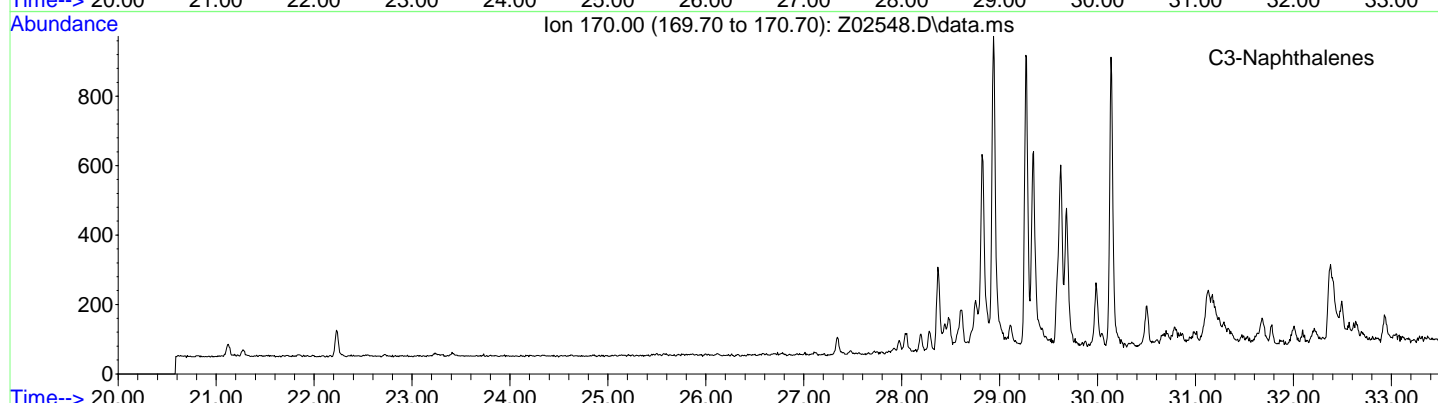
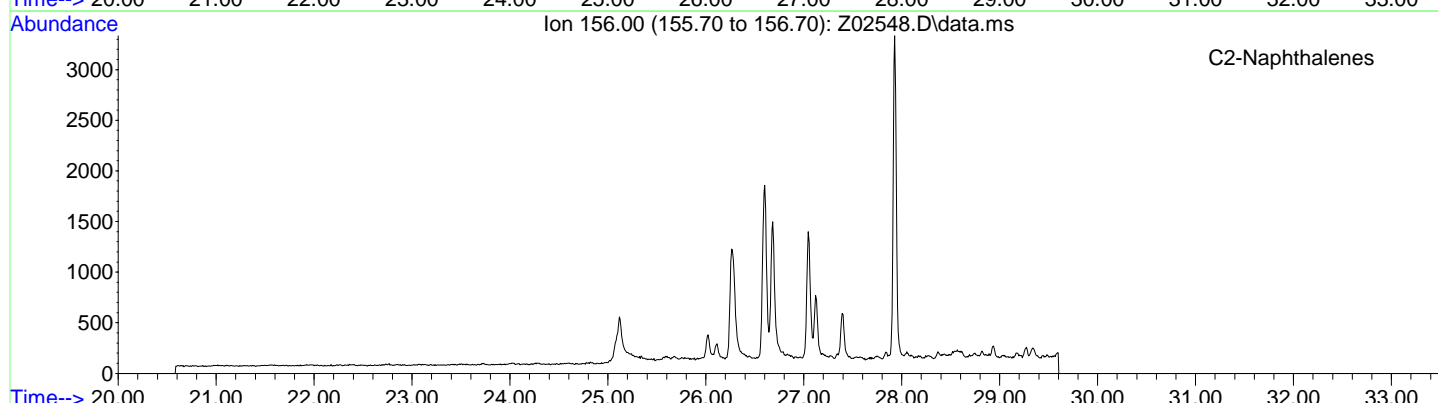
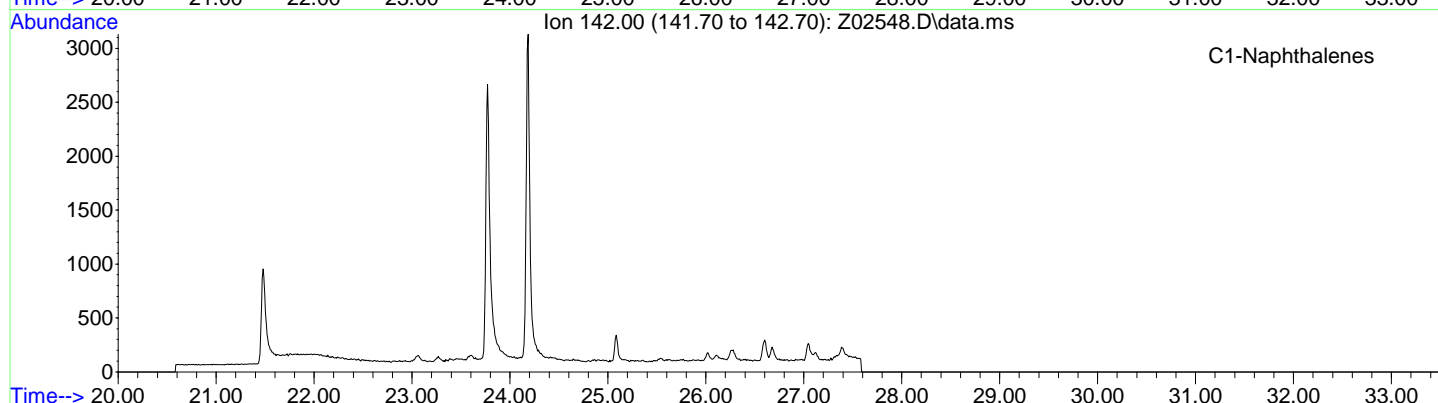
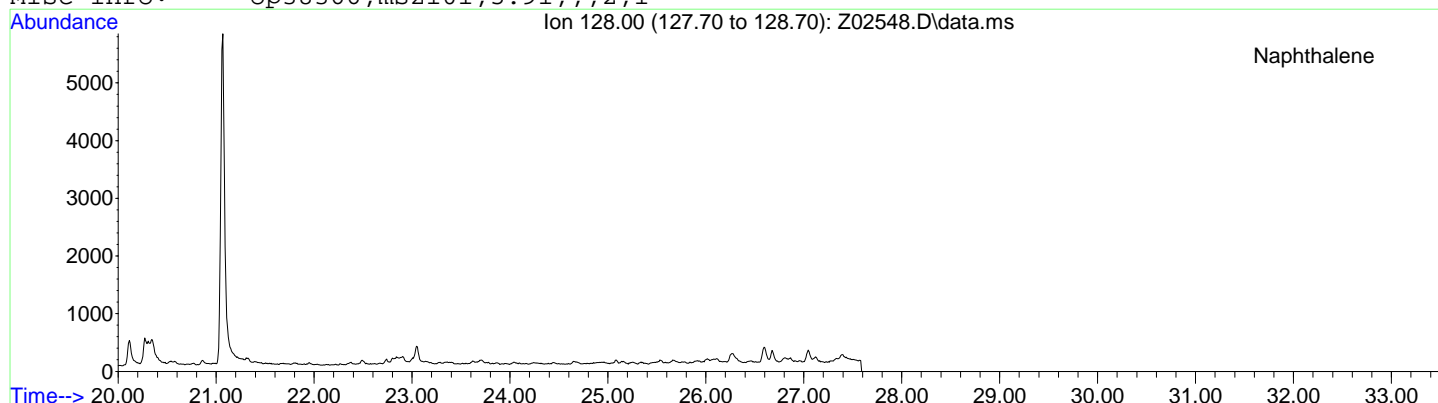
File: Z:\2\data\Z140605\Z02548.D
Date Acquired: 6 Jun 2014 10:09 am
Sample Name: mc30898-2
Misc Info: op38366,msz101,5.91,,,2,1



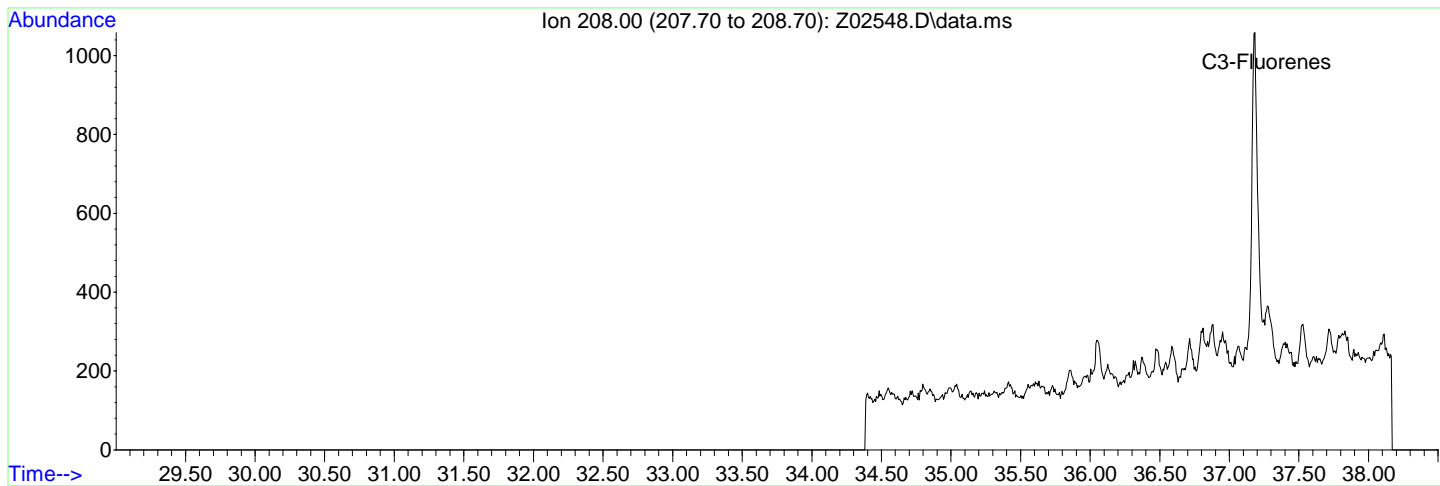
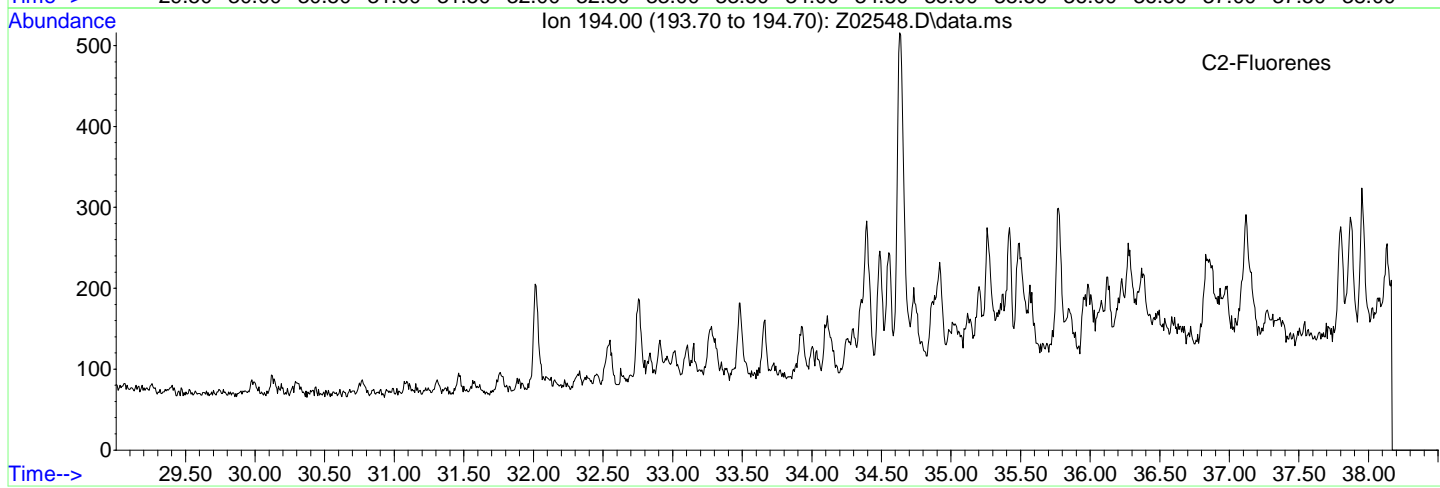
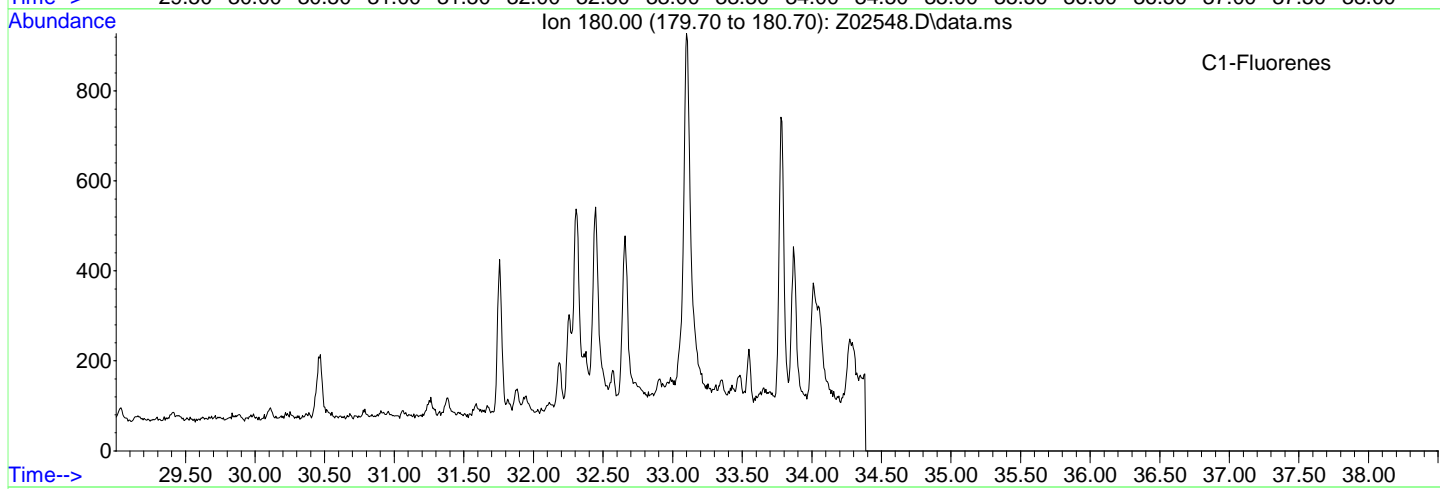
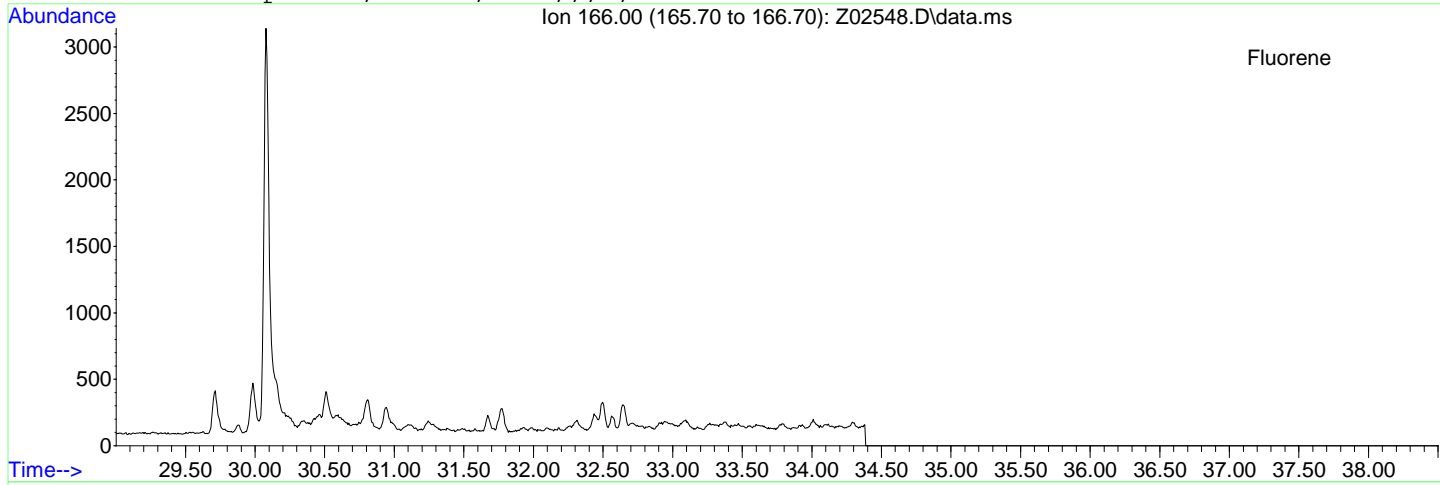
File: Z:\2\data\Z140605\Z02548.D
 Date Acquired: 6 Jun 2014 10:09 am
 Sample Name: mc30898-2
 Misc Info: op38366,msz101,5.91,,,2,1



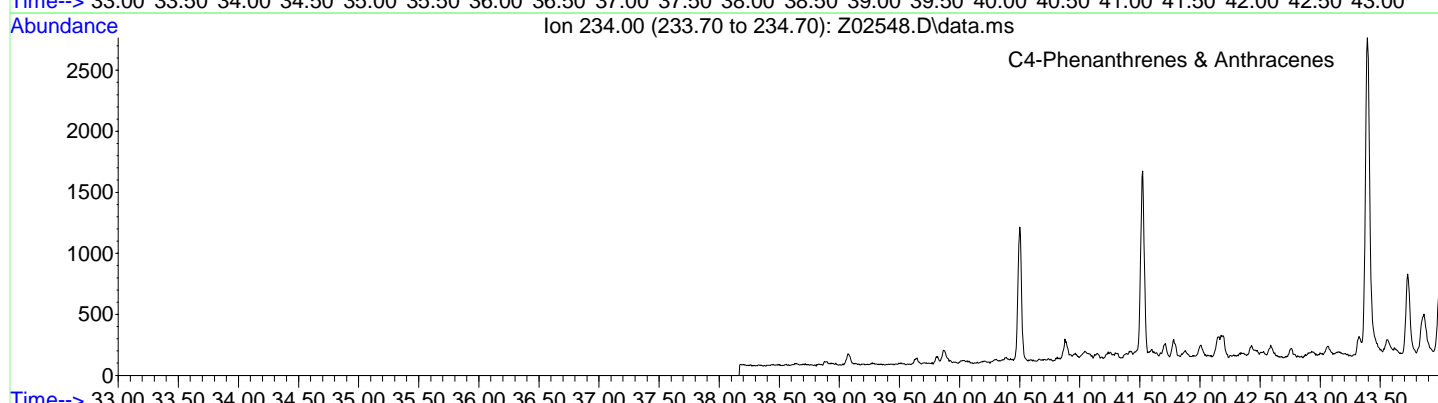
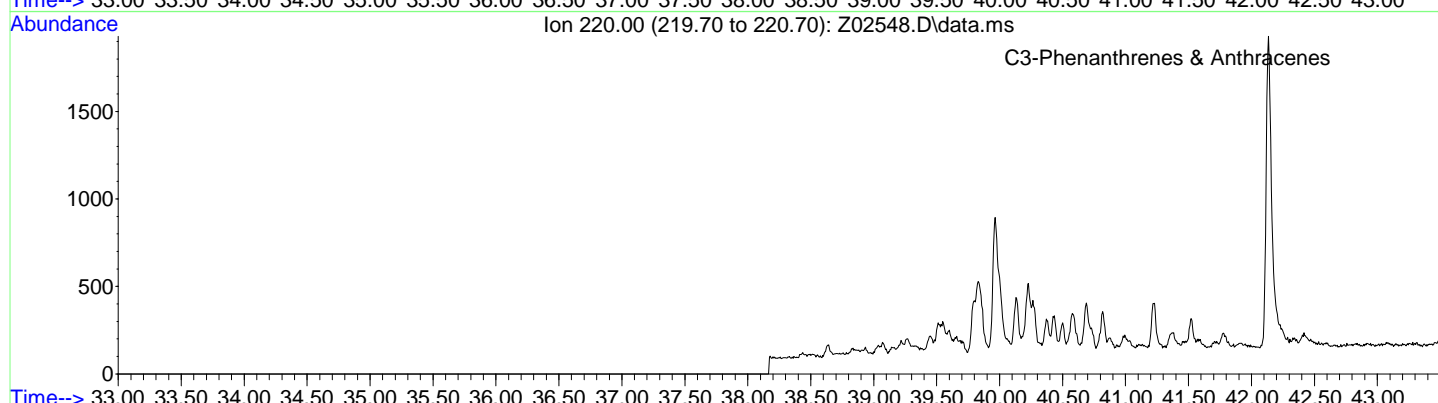
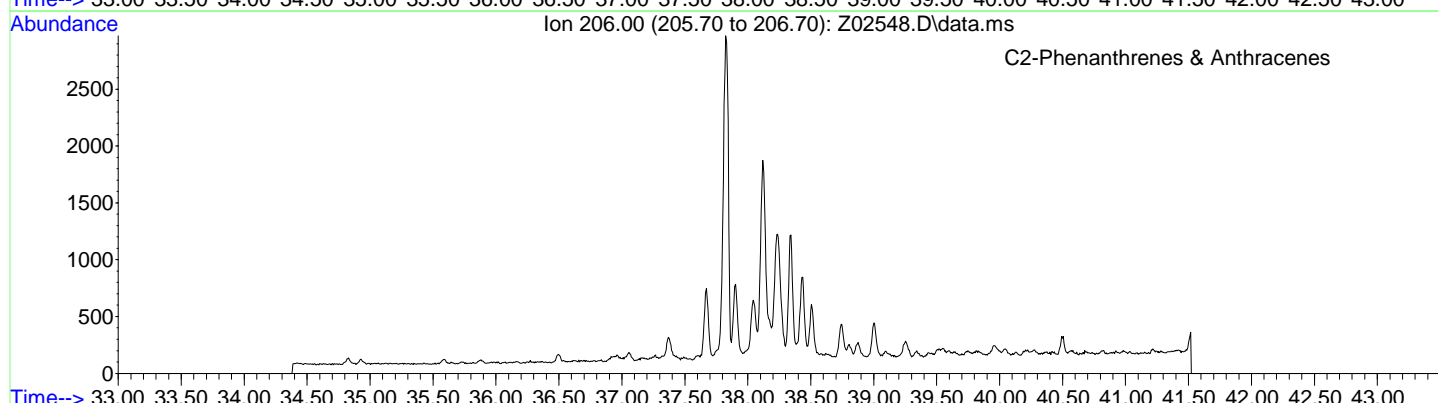
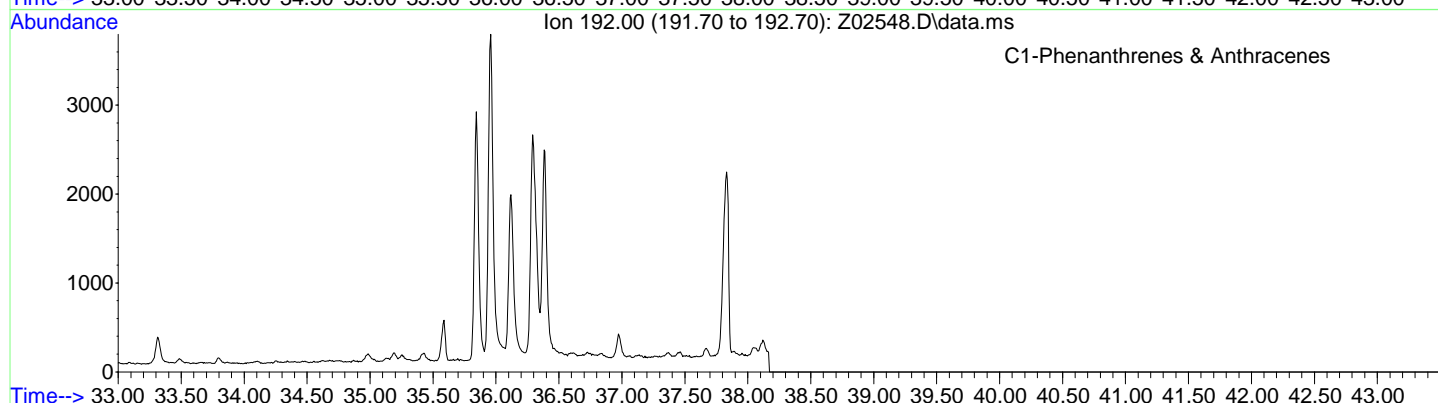
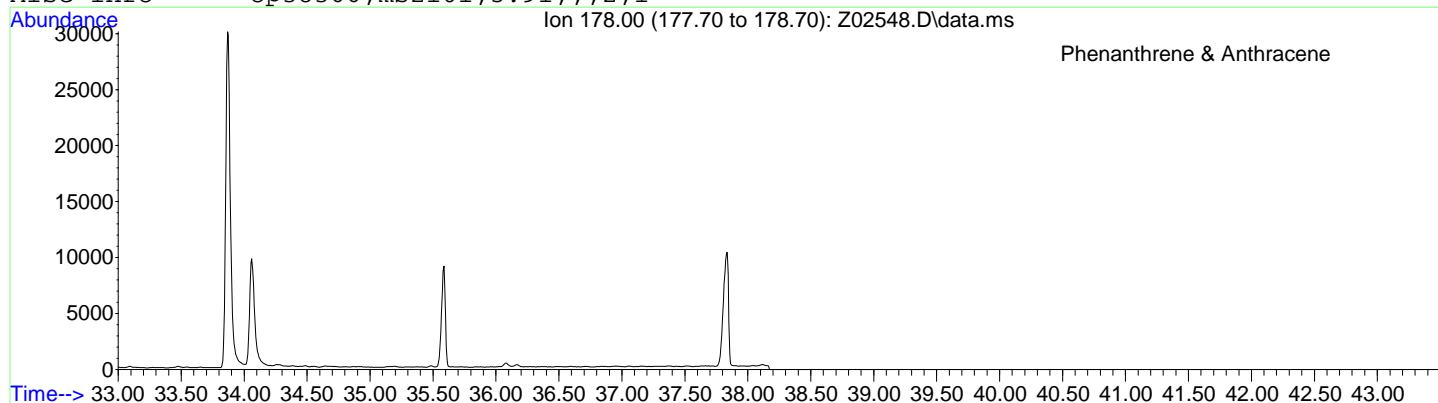
File: Z:\2\data\Z140605\Z02548.D
Date Acquired: 6 Jun 2014 10:09 am
Sample Name: mc30898-2
Misc Info: op38366,msz101,5.91,,,2,1



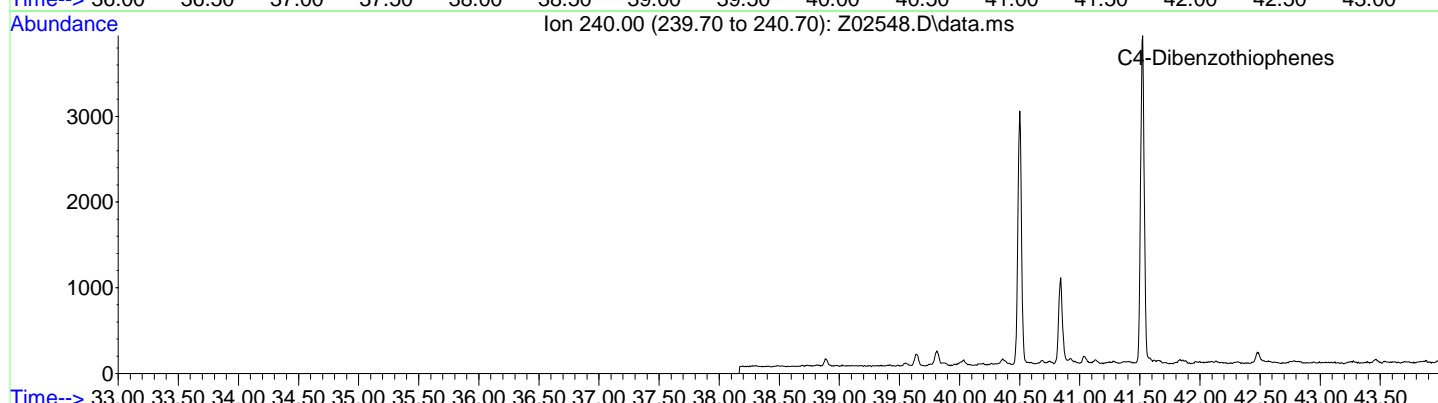
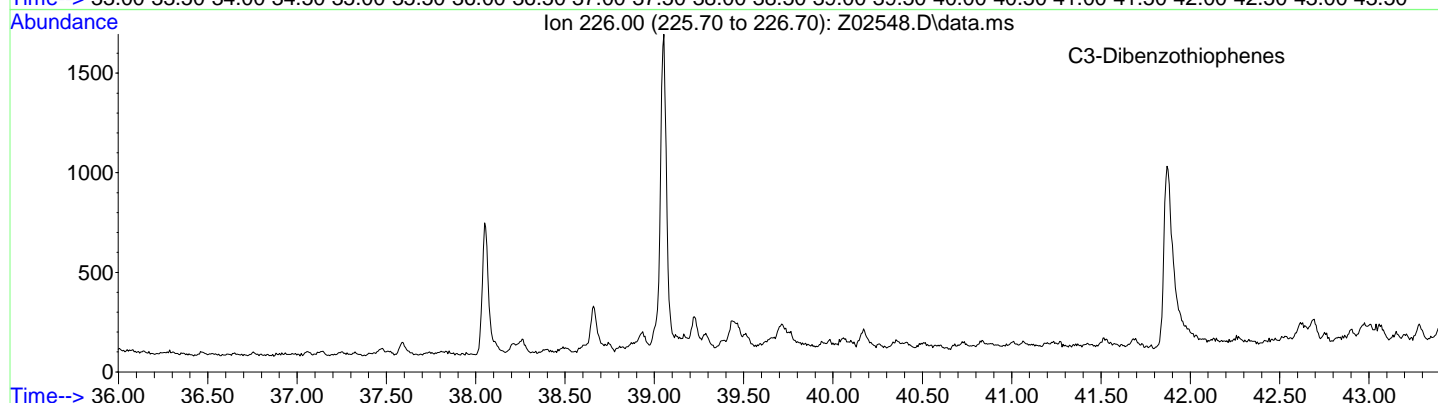
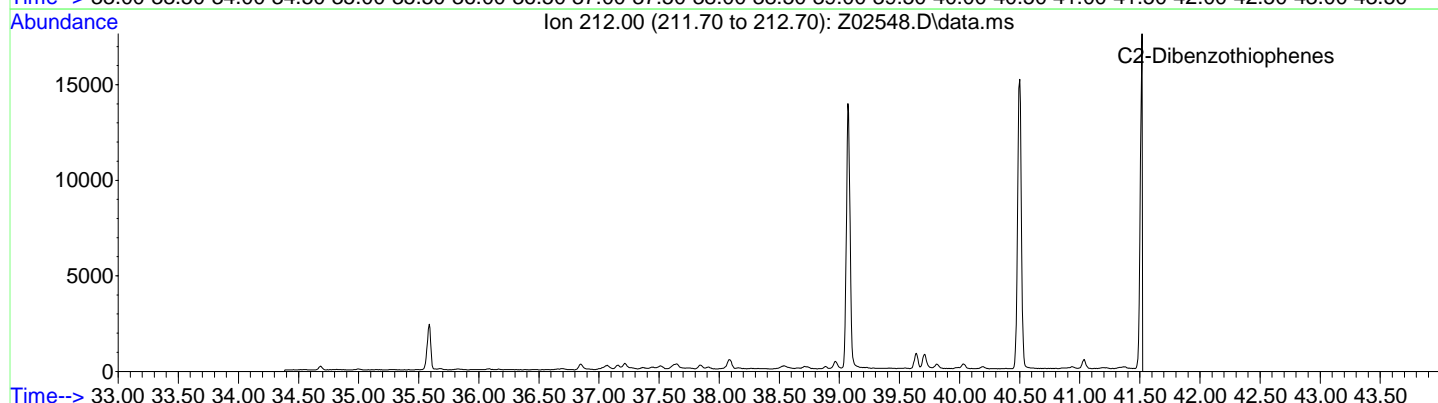
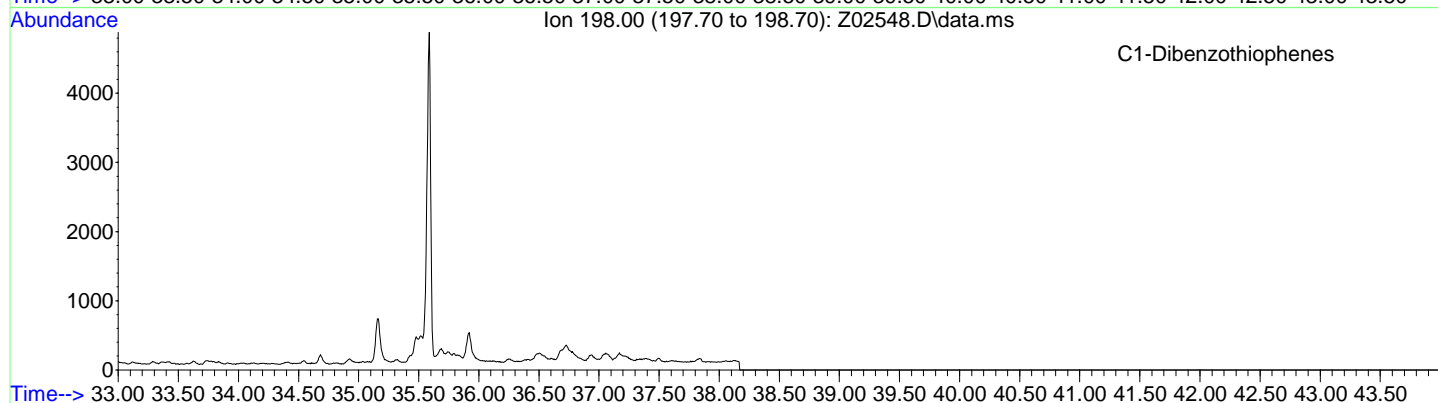
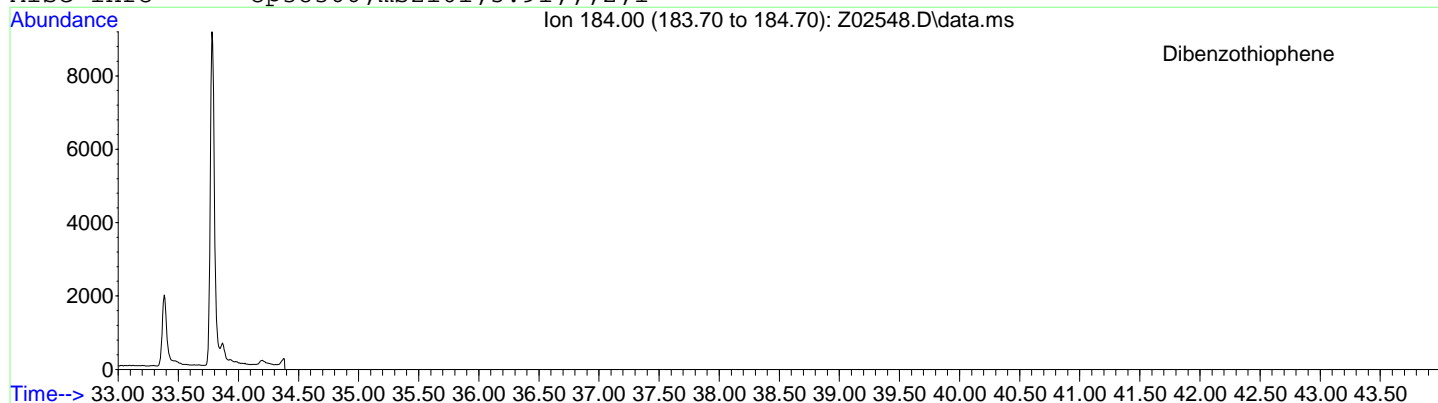
File: Z:\2\data\Z140605\Z02548.D
 Date Acquired: 6 Jun 2014 10:09 am
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: mc30898-2
 Misc Info: op38366,msz101,5.91,,,2,1



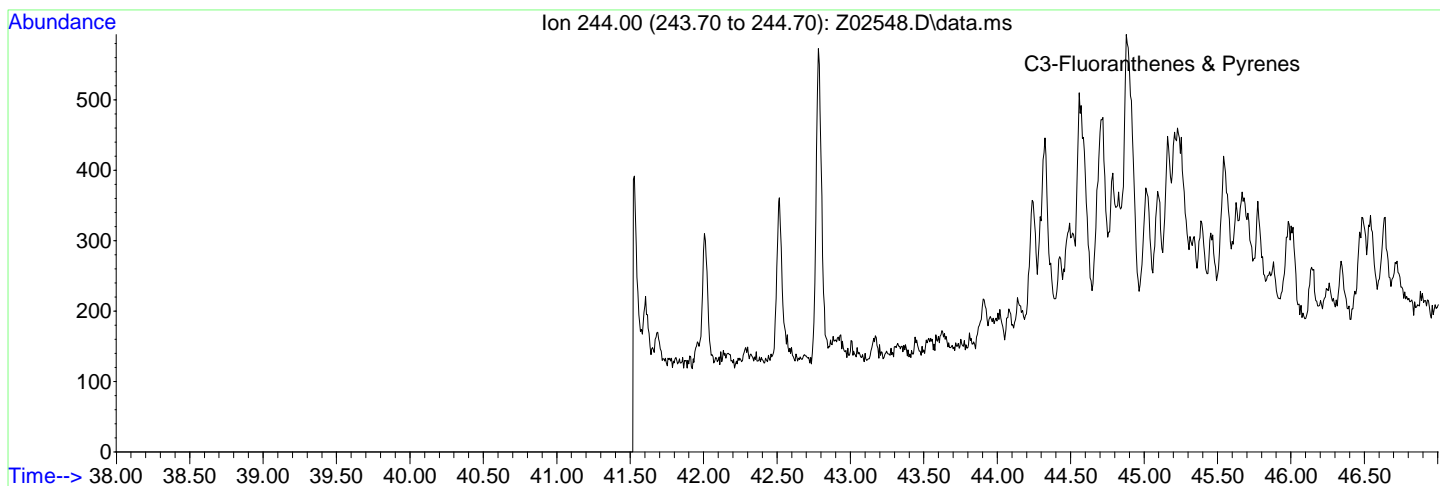
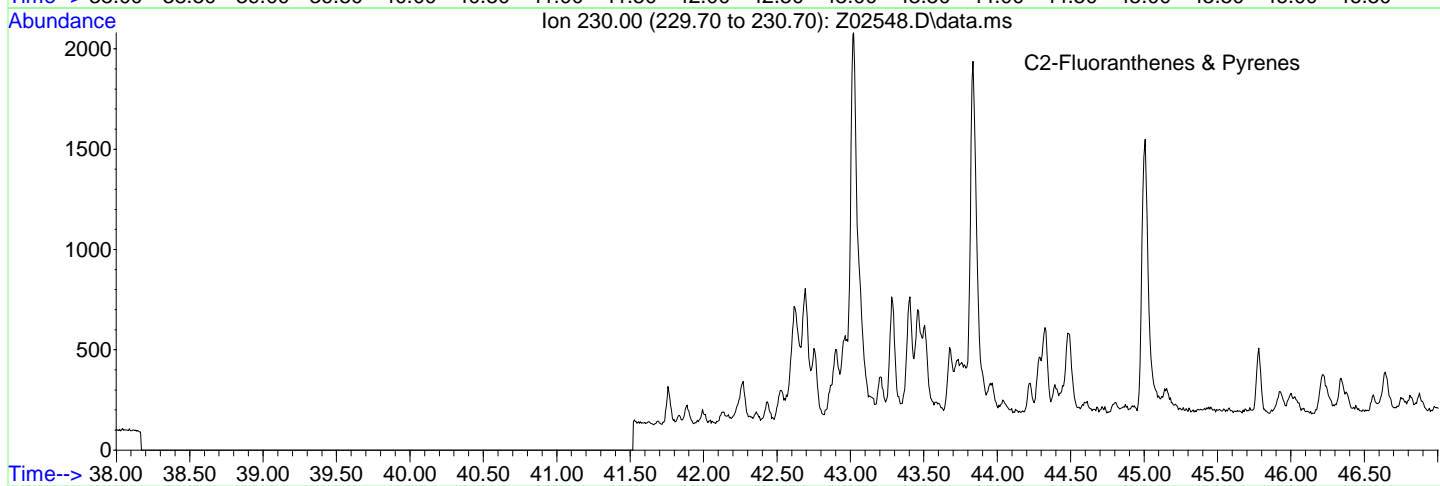
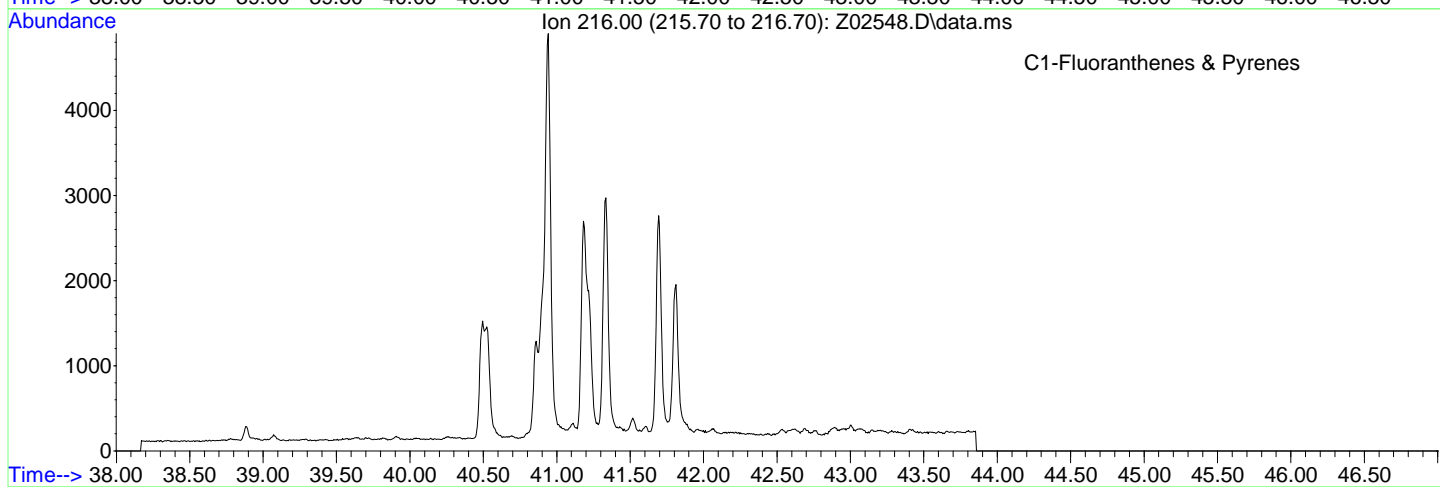
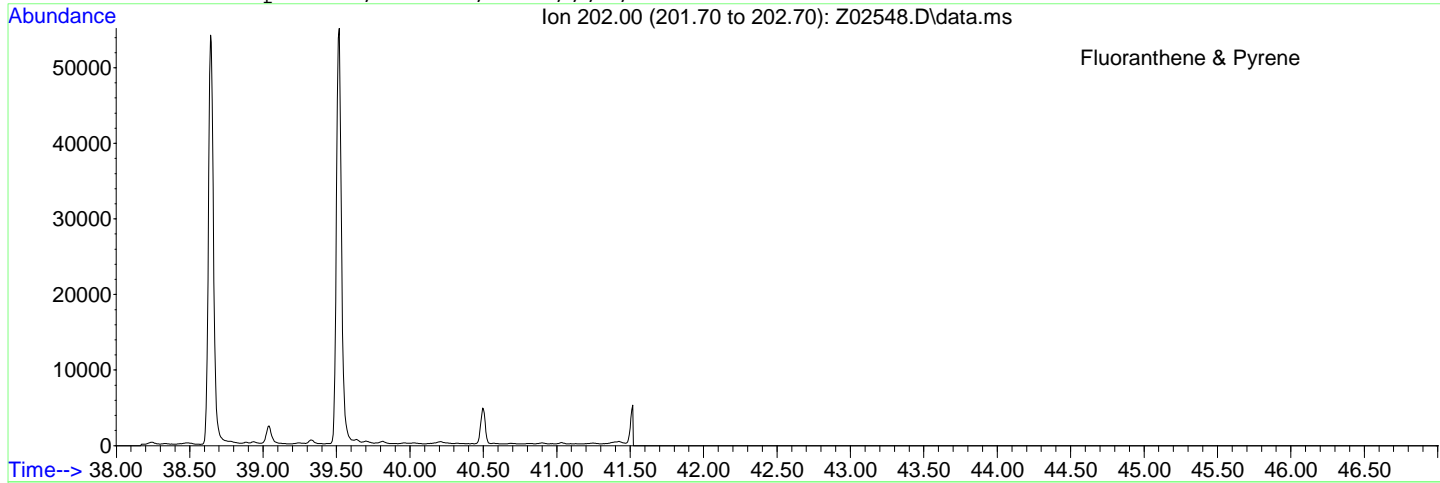
File: Z:\2\data\Z140605\Z02548.D
 Date Acquired: 6 Jun 2014 10:09 am
 Sample Name: mc30898-2
 Misc Info: op38366,msz101,5.91,,,2,1



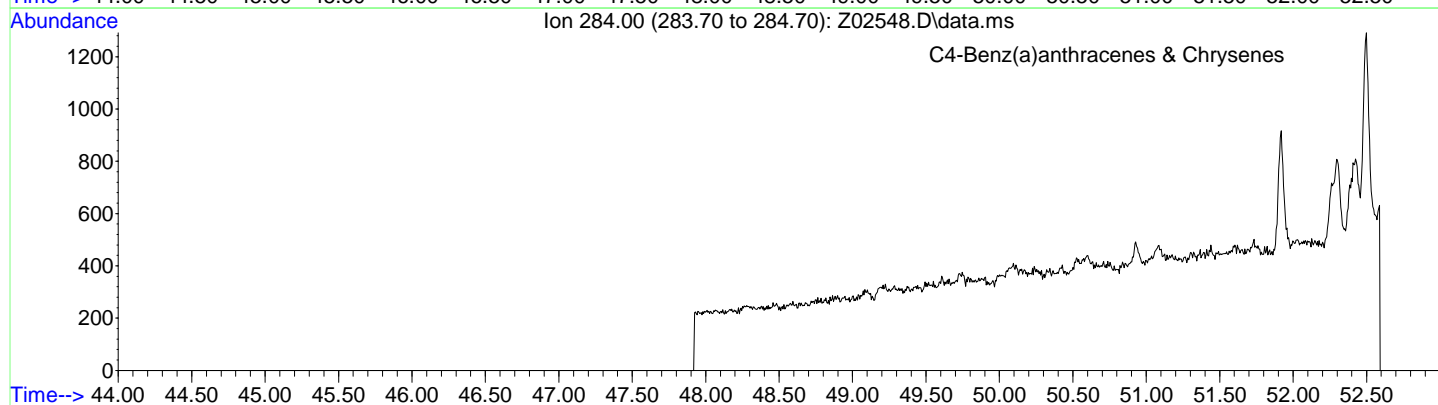
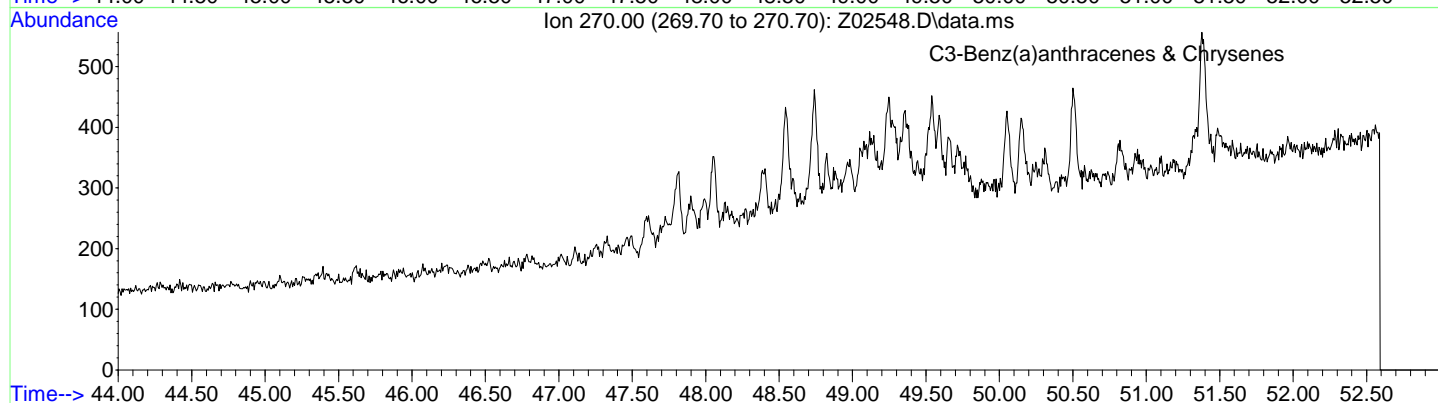
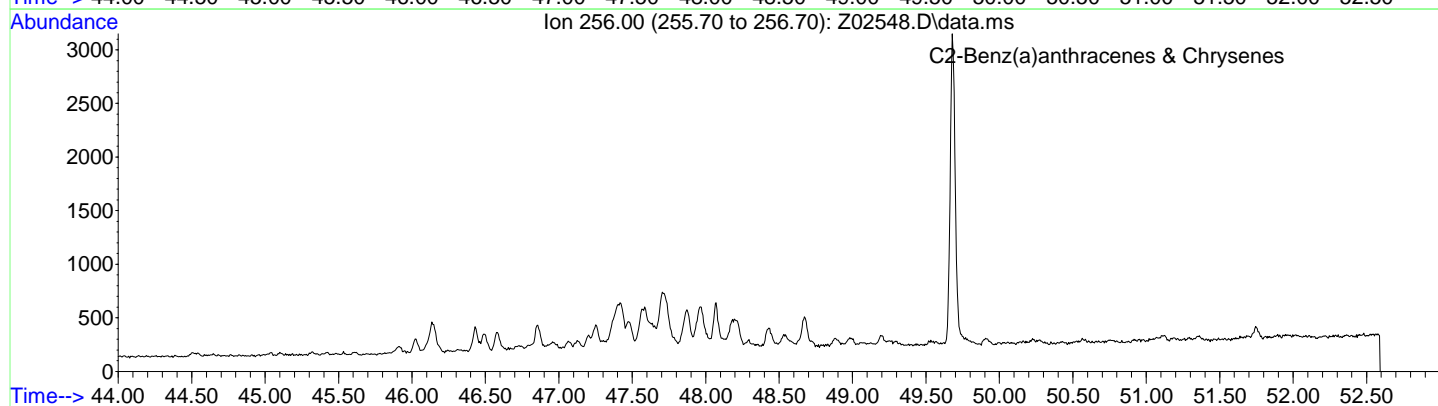
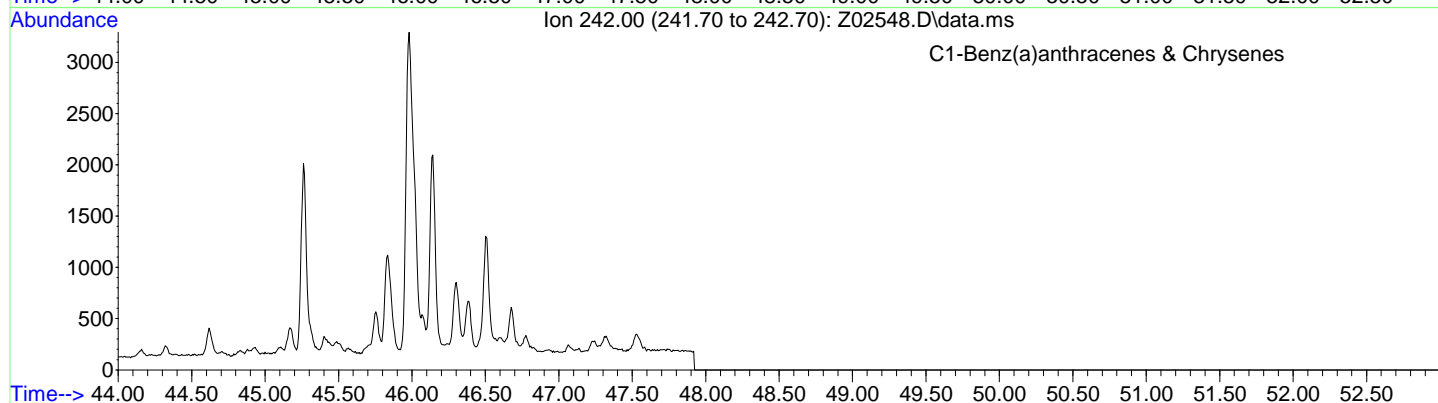
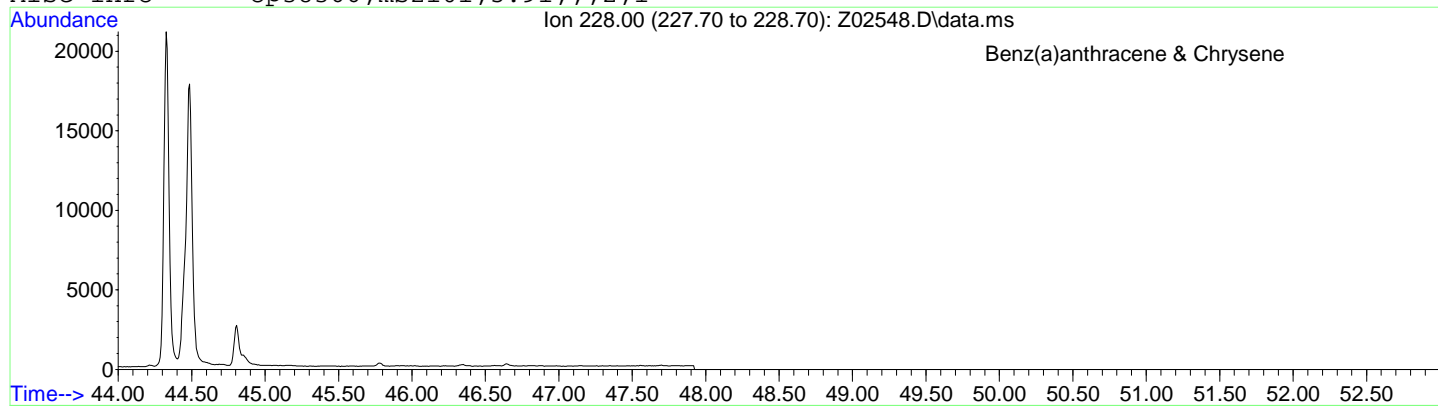
File: Z:\2\data\Z140605\Z02548.D
 Date Acquired: 6 Jun 2014 10:09 am
 Sample Name: mc30898-2
 Misc Info: op38366,msz101,5.91,,,2,1



File: Z:\2\data\Z140605\Z02548.D
 Date Acquired: 6 Jun 2014 10:09 am
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: mc30898-2
 Misc Info: op38366,msz101,5.91,,,2,1



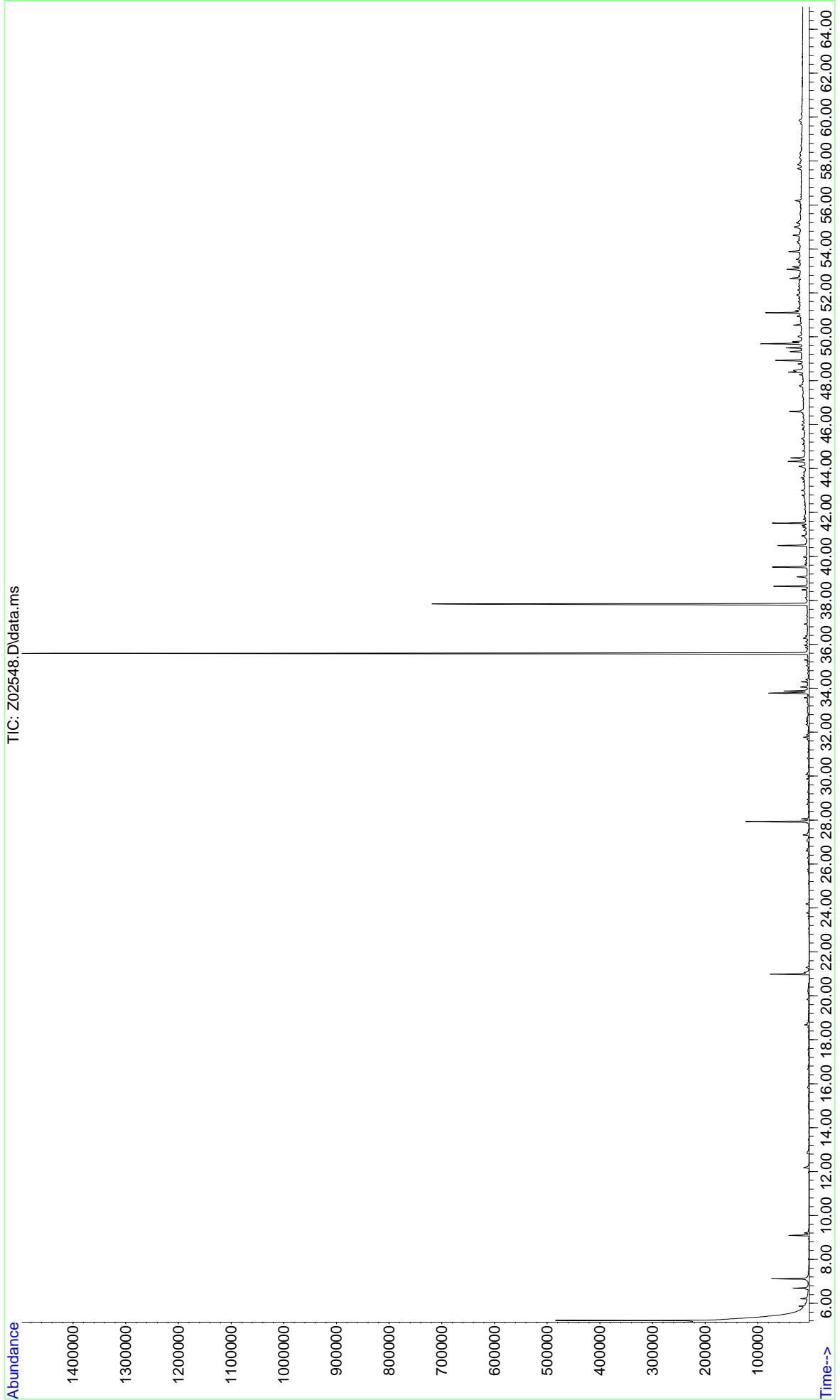
File: Z:\2\data\Z140605\Z02548.D
 Date Acquired: 6 Jun 2014 10:09 am
 Sample Name: mc30898-2
 Misc Info: op38366,msz101,5.91,,,2,1



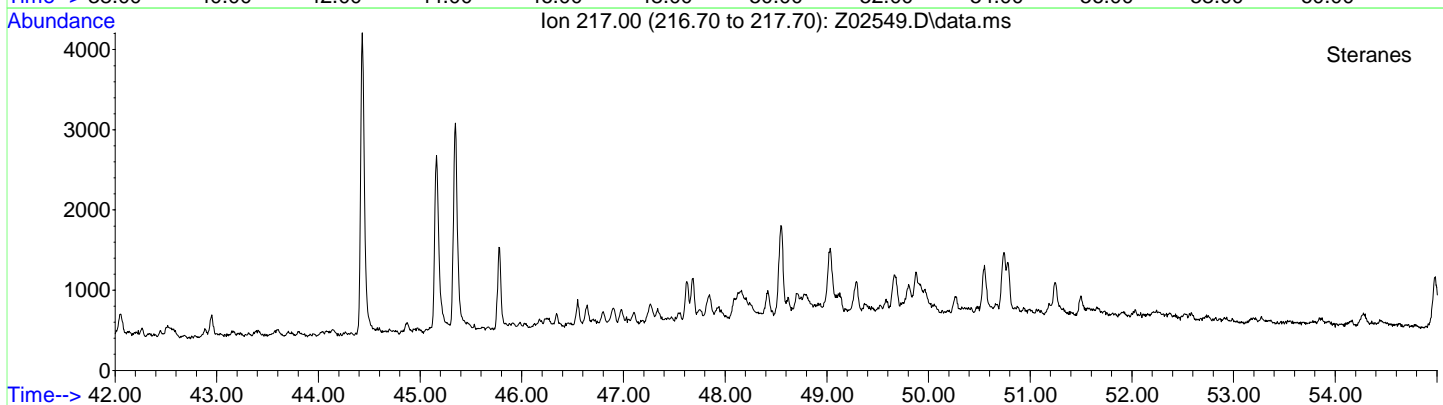
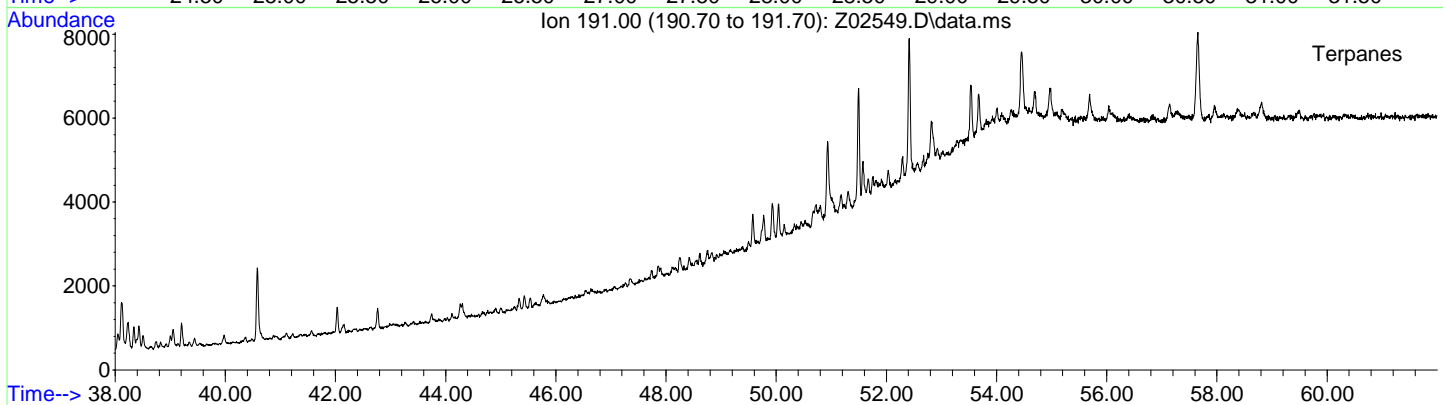
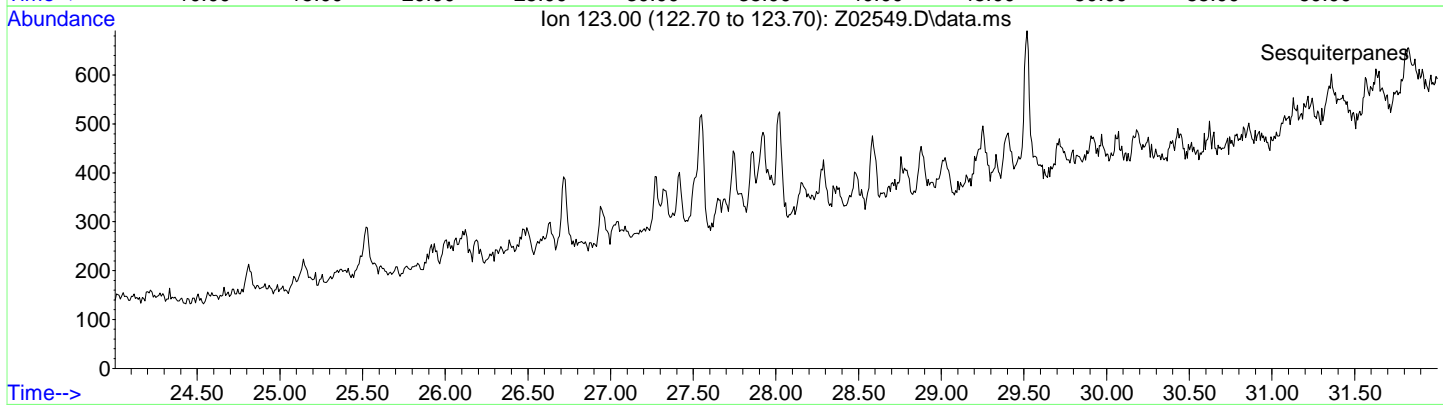
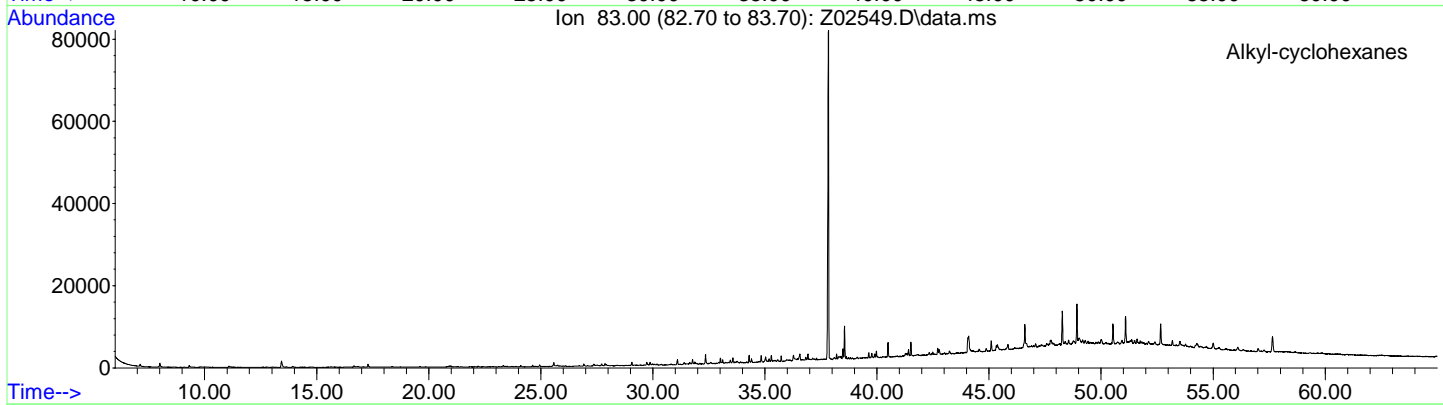
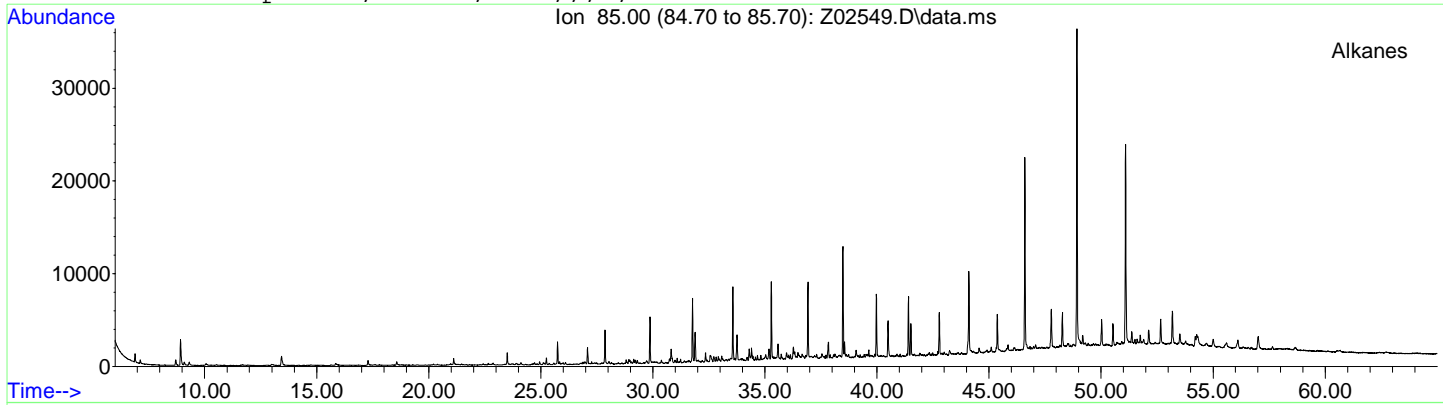
ACCUTEST

GC/MS TOTAL ION CHROMATOGRAM

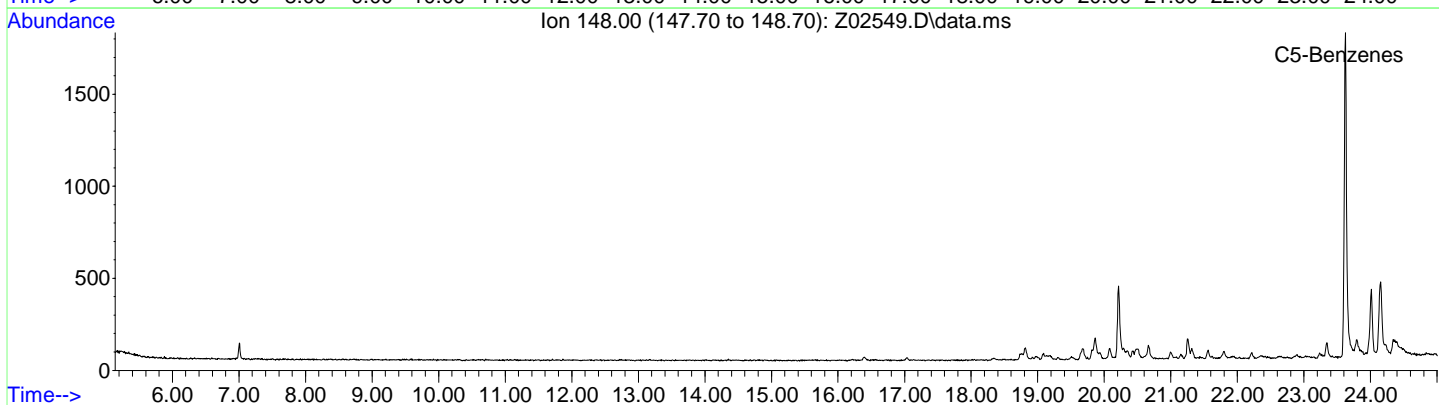
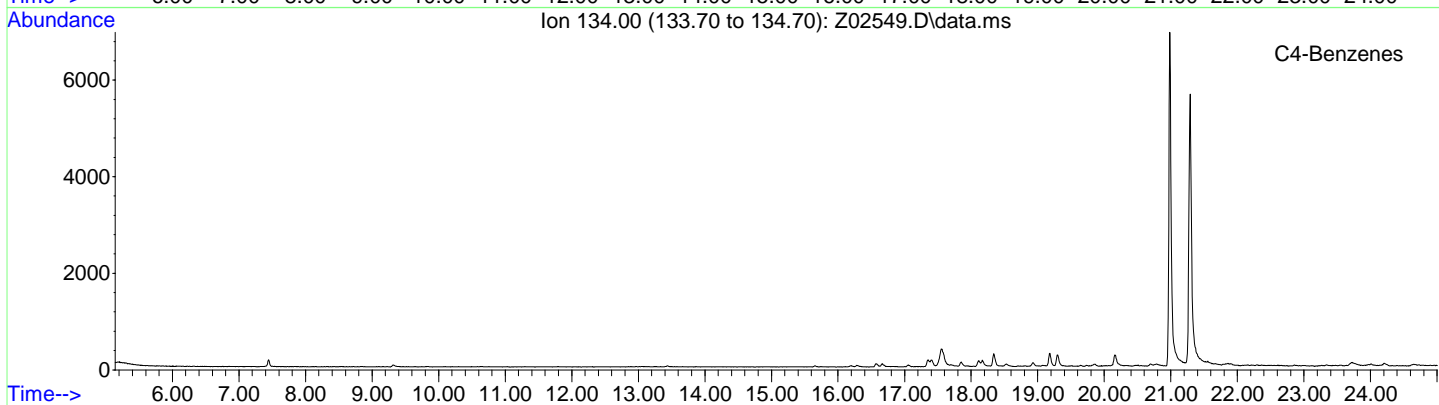
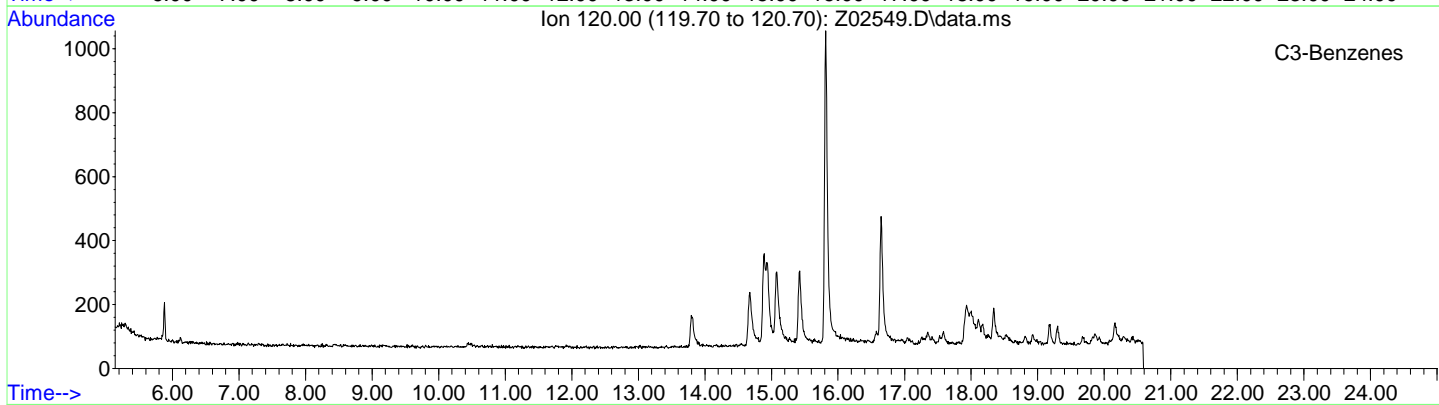
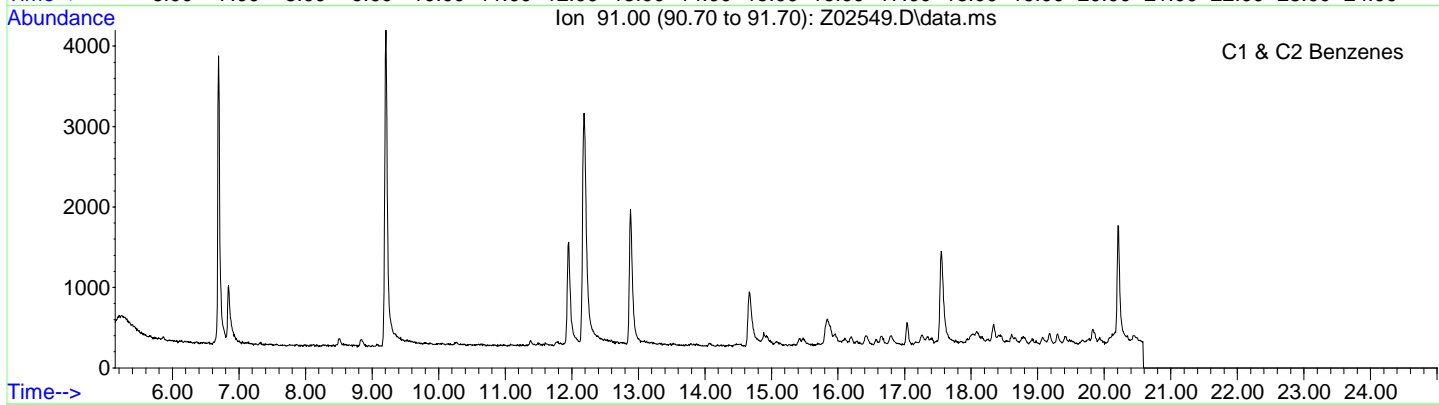
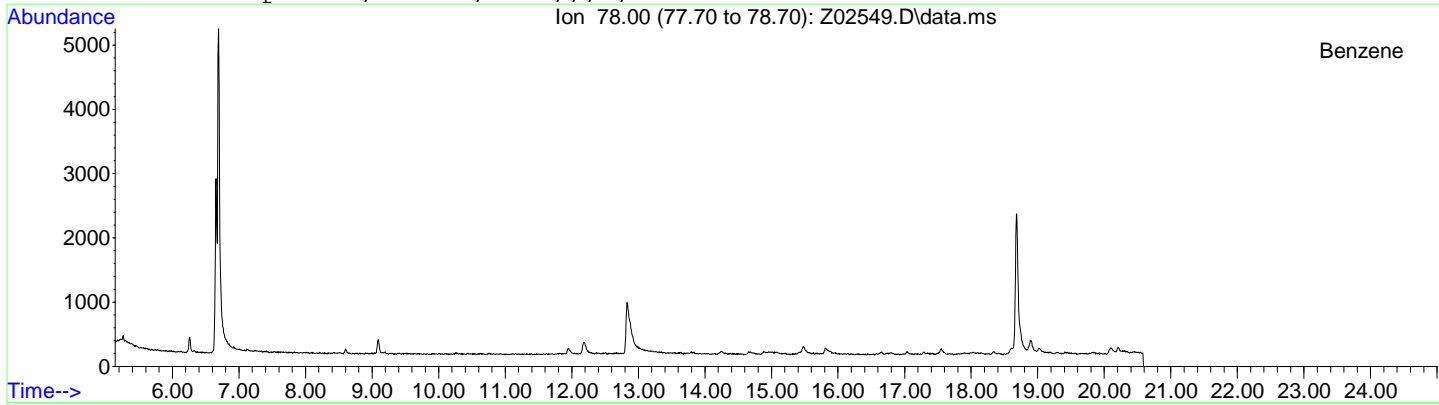
File: Z:\2\data\Z140605\Z02548.D
Date Acquired: 6 Jun 2014 10:09 am
Method File: ZAPHSIM-MTBE.M
Sample Name: mc30898-2
Misc Info: op38366,msz101,5.91,,2,1



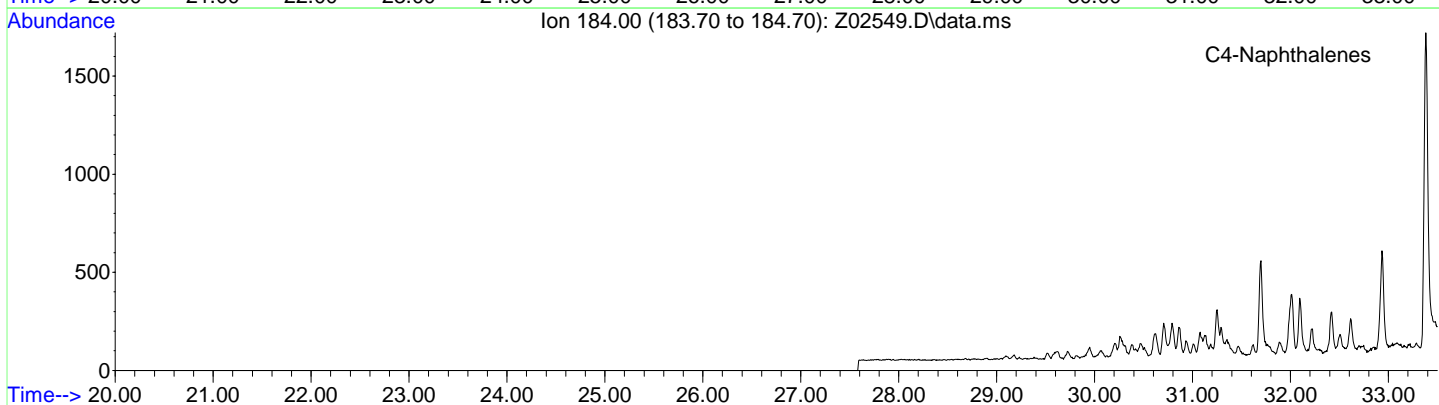
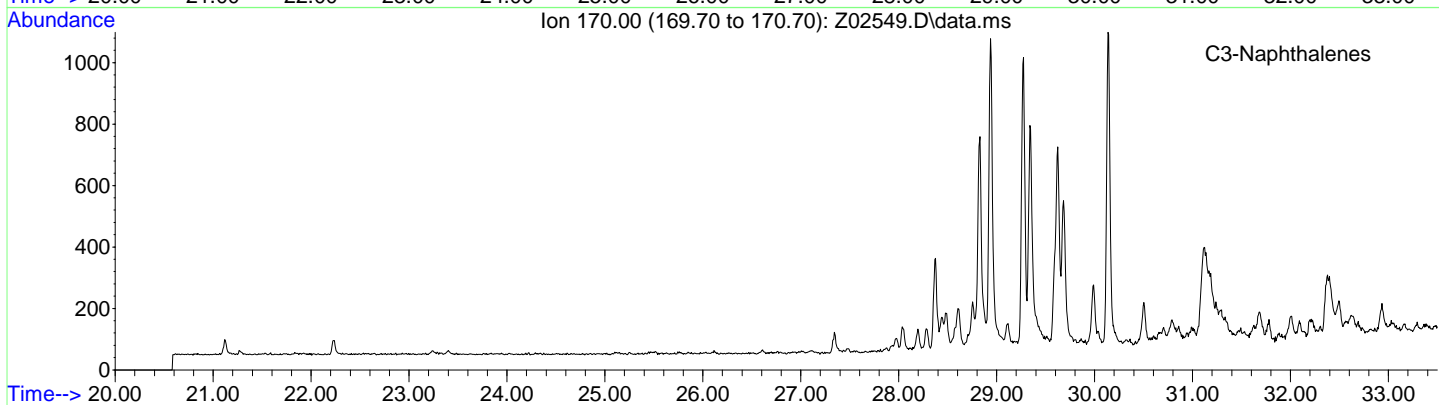
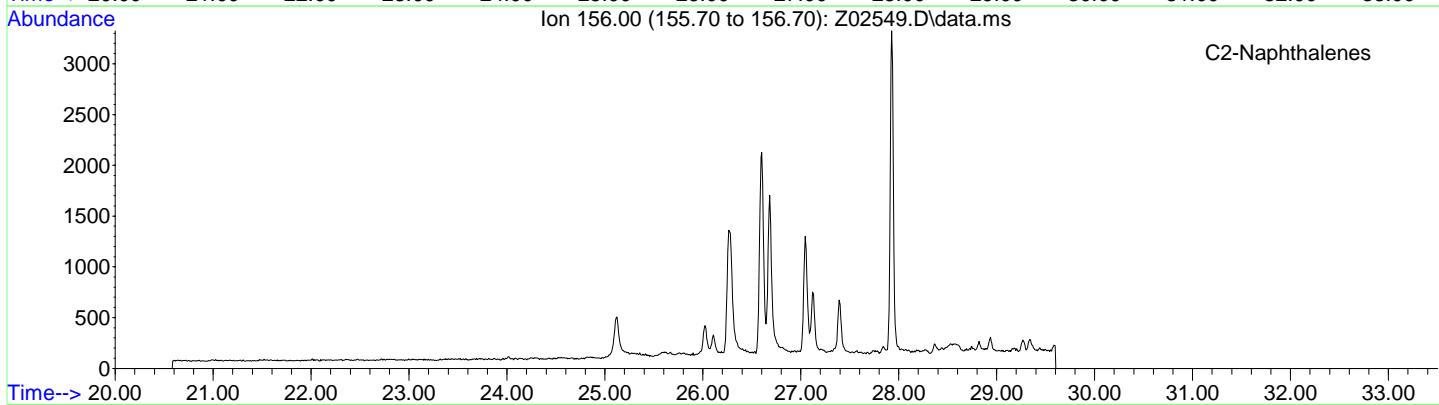
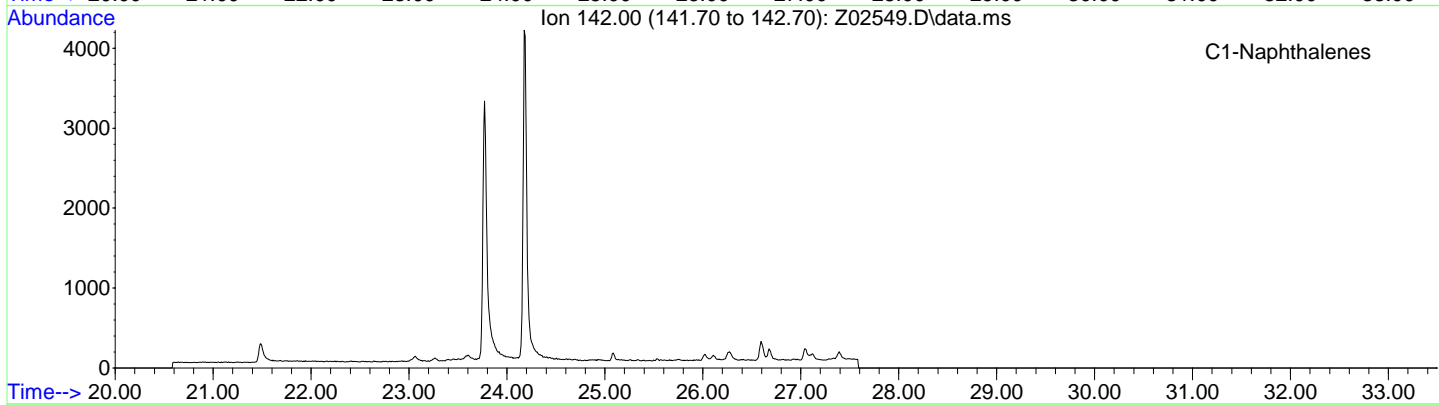
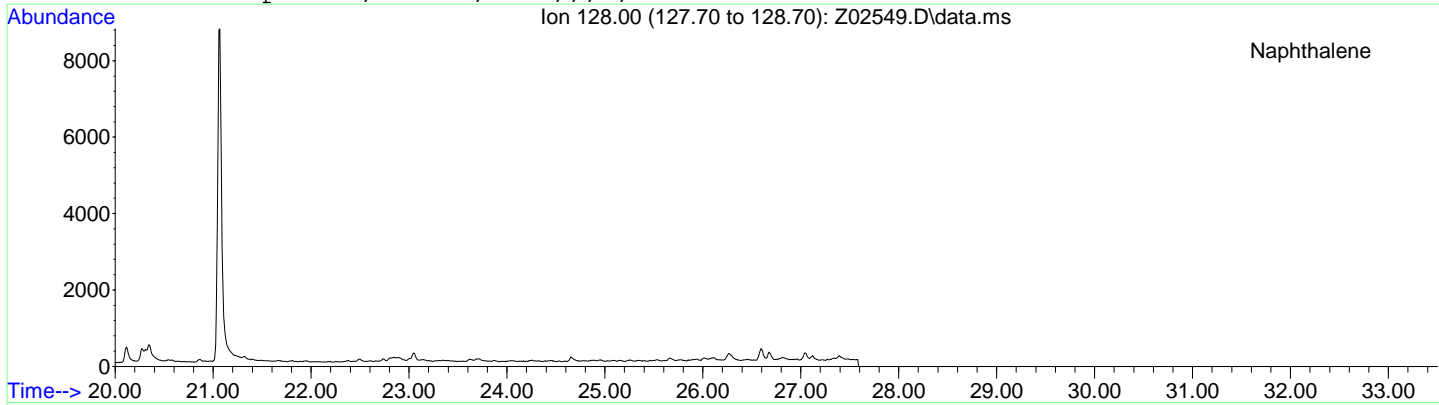
File: Z:\2\data\Z140605\Z02549.D
 Date Acquired: 6 Jun 2014 11:26 am
 Sample Name: mc30898-3
 Misc Info: op38366,msz101,5.19,,,2,1



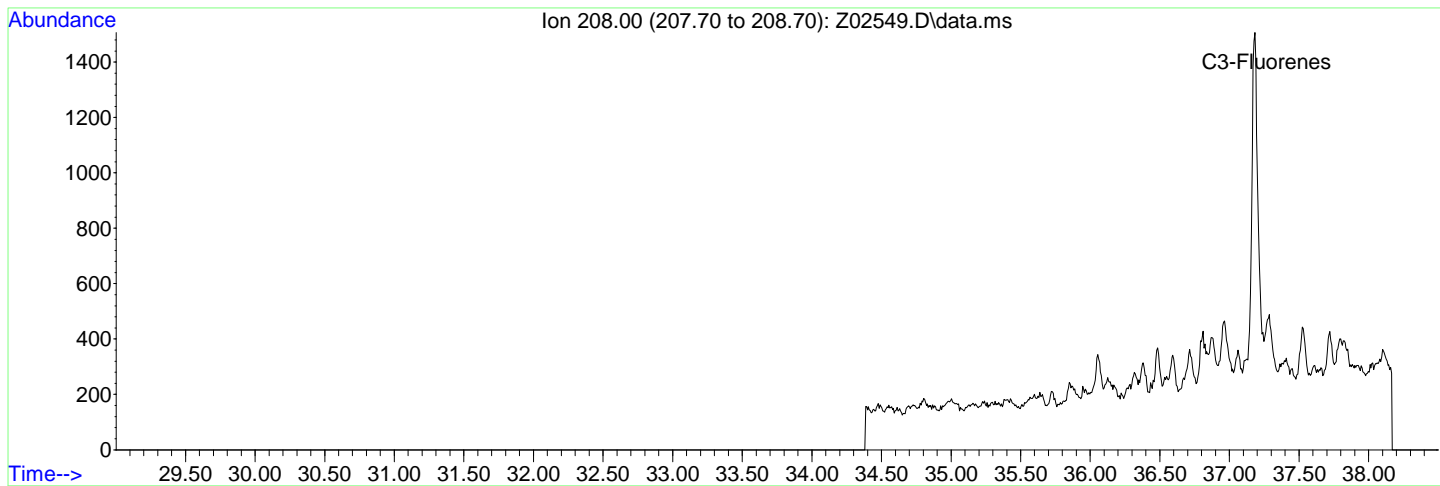
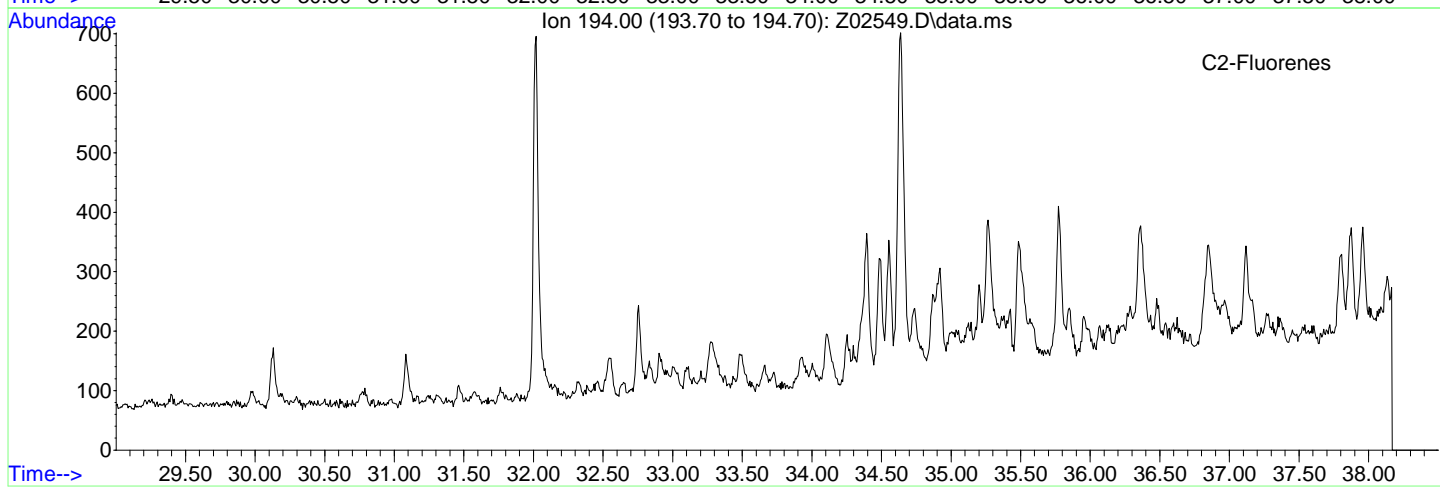
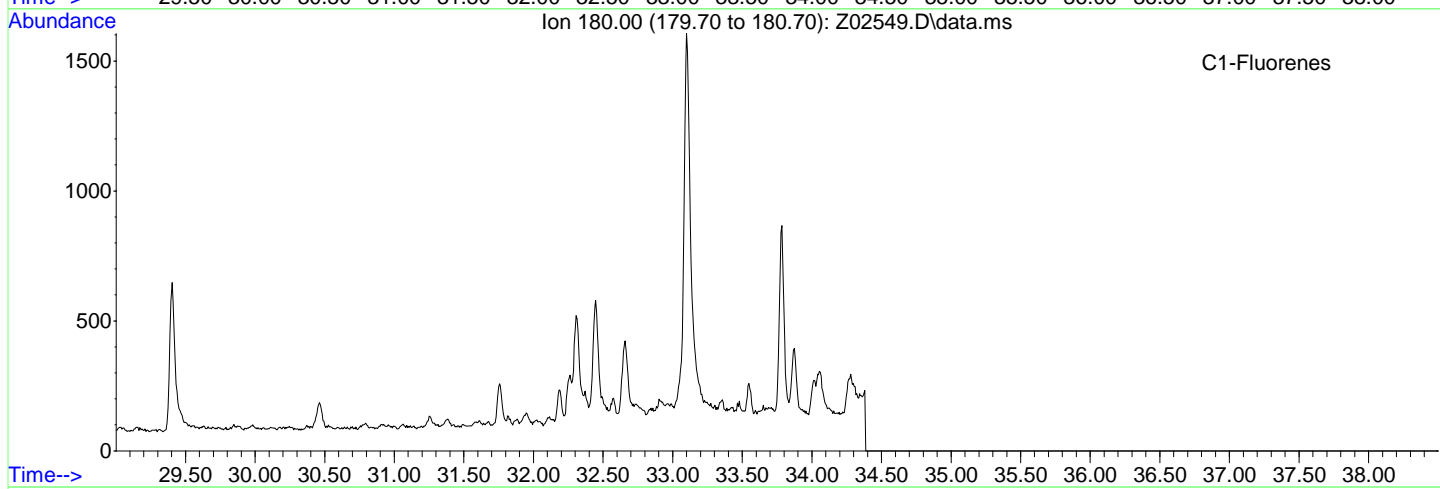
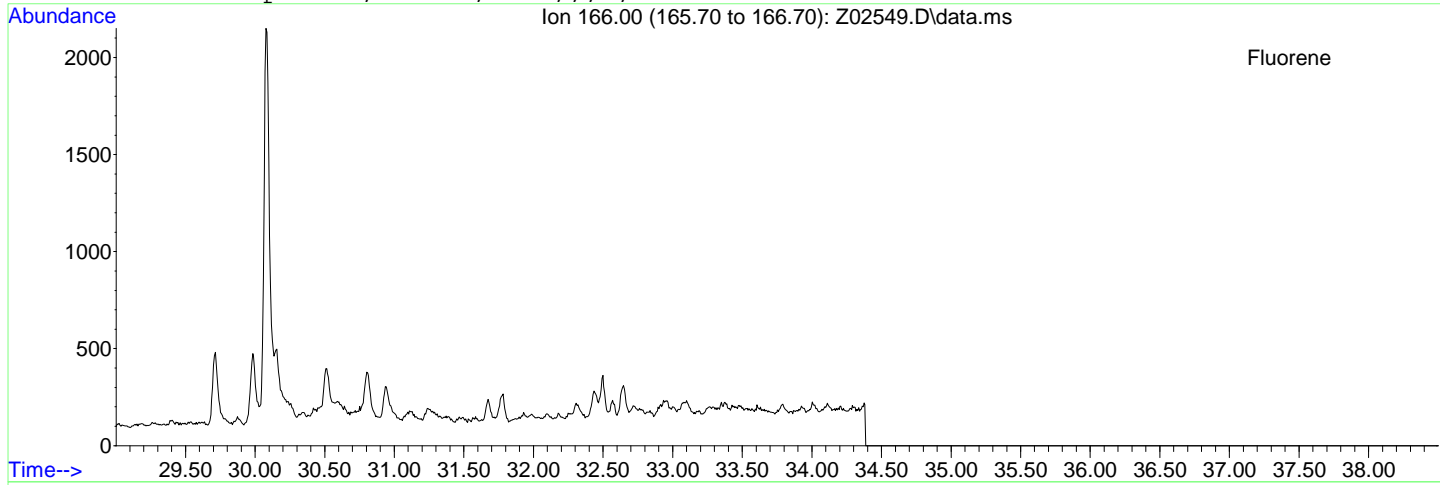
File: Z:\2\data\Z140605\Z02549.D
Date Acquired: 6 Jun 2014 11:26 am
Sample Name: mc30898-3
Misc Info: op38366,msz101,5.19,,,2,1



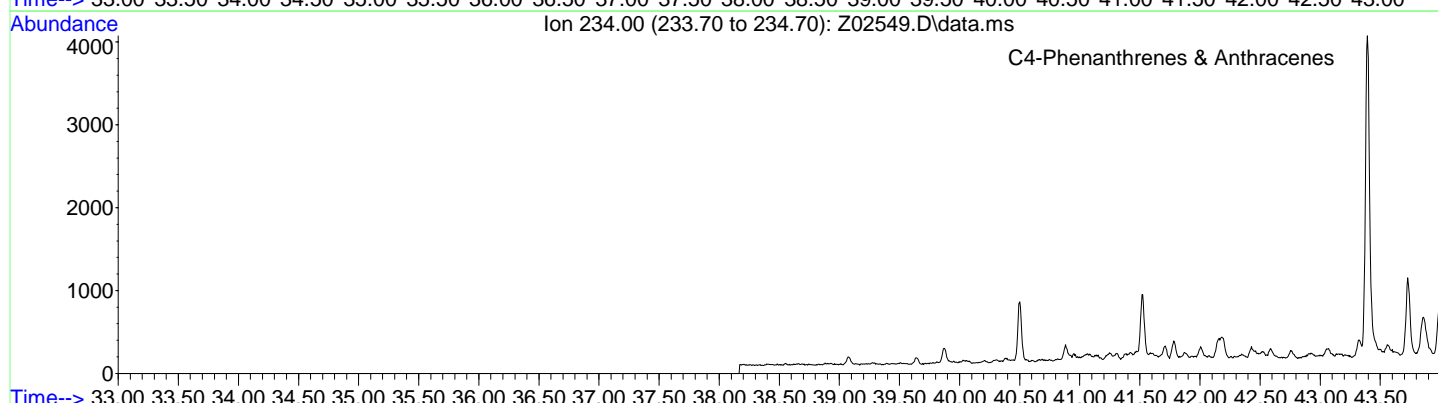
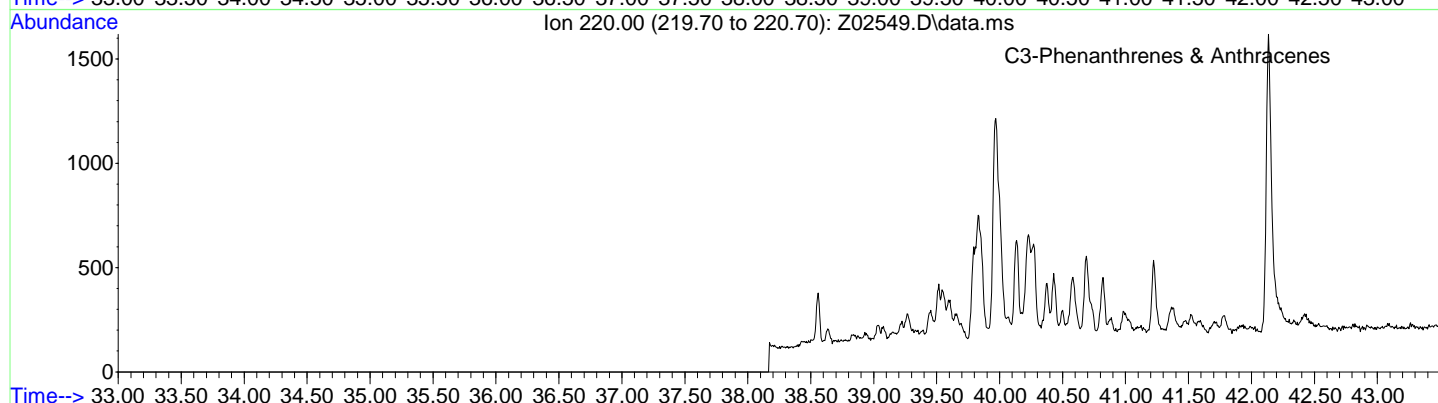
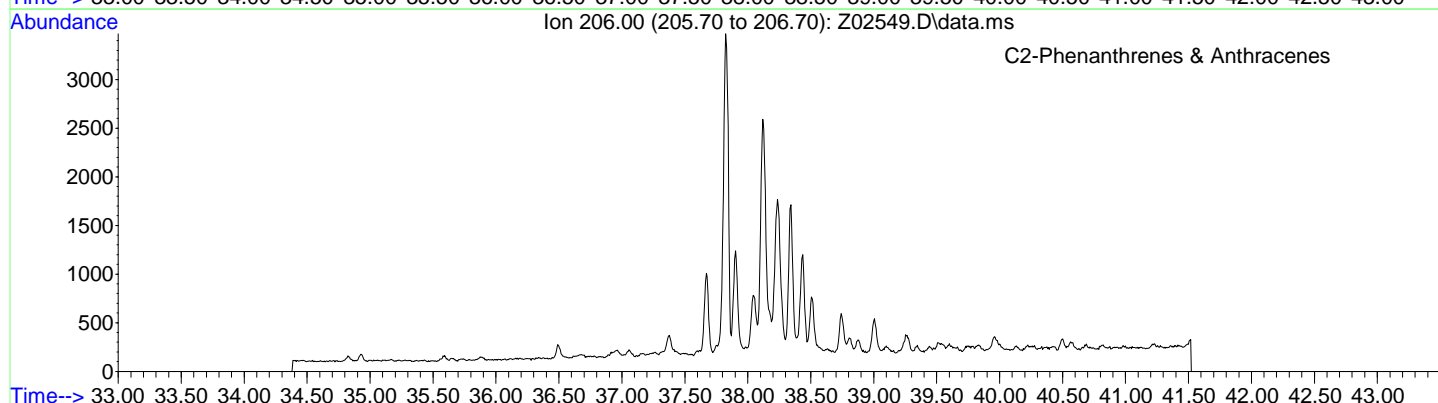
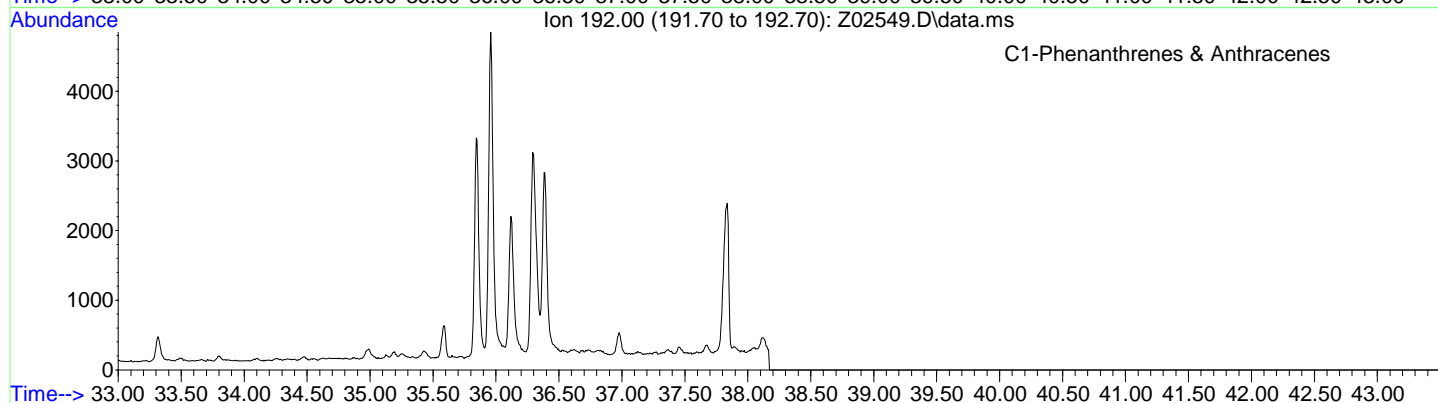
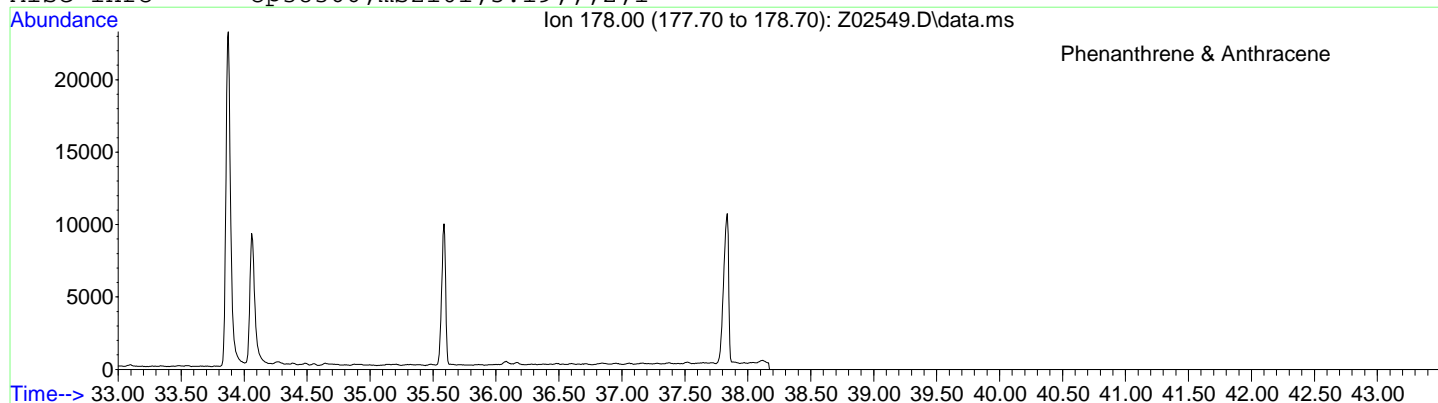
File: Z:\2\data\Z140605\Z02549.D
 Date Acquired: 6 Jun 2014 11:26 am
 Sample Name: mc30898-3
 Misc Info: op38366,msz101,5.19,,,2,1



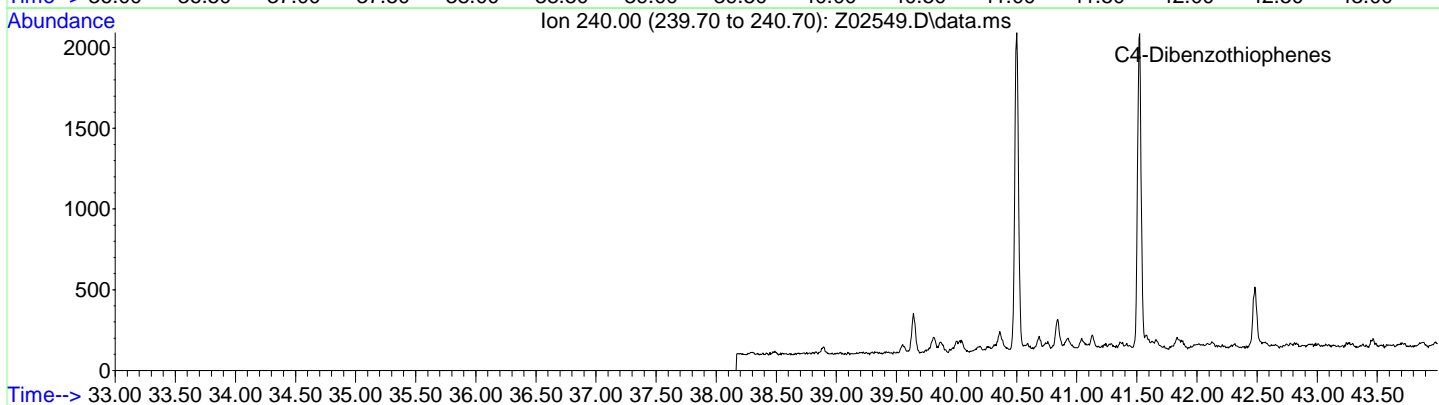
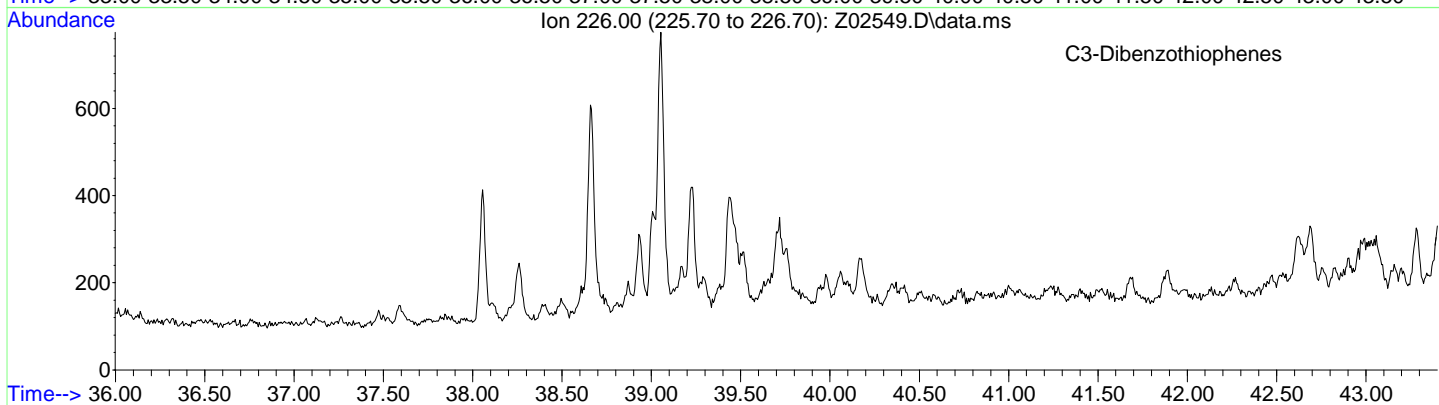
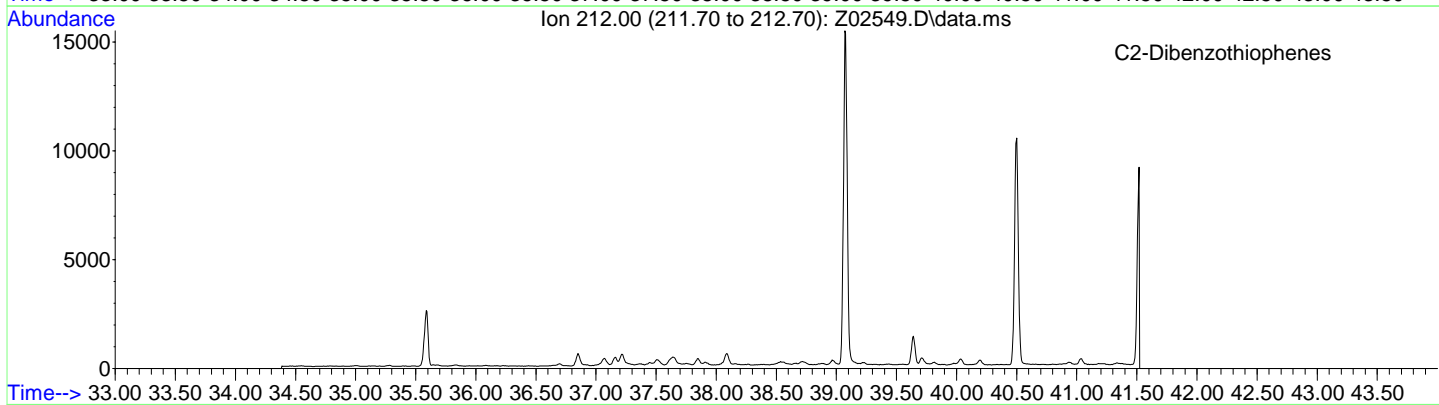
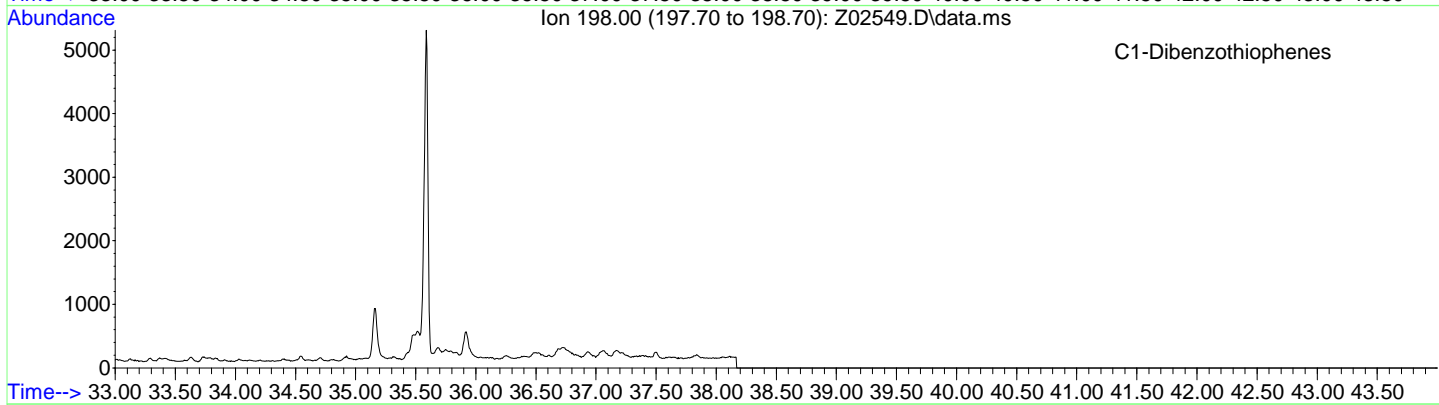
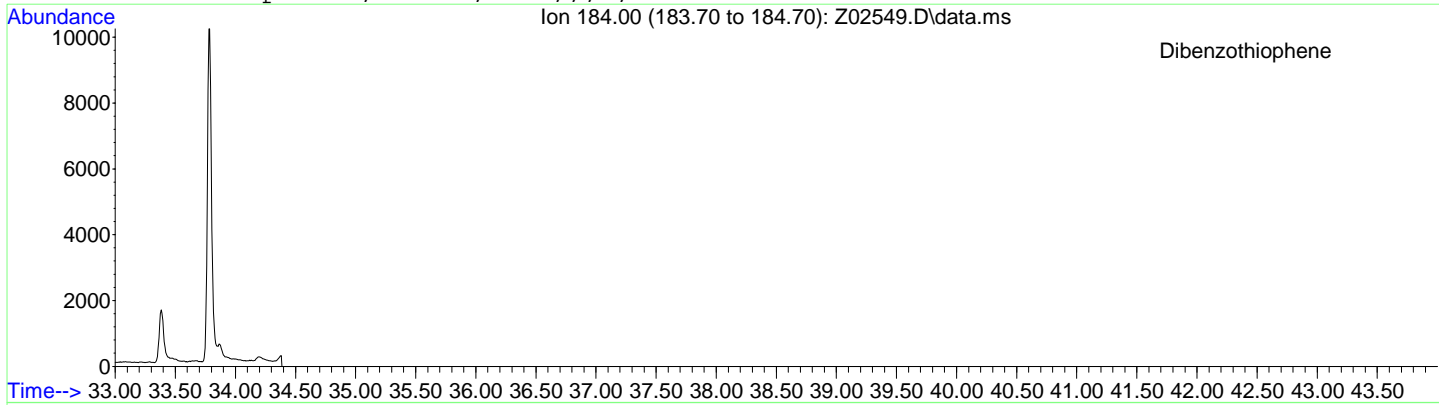
File: Z:\2\data\Z140605\Z02549.D
 Date Acquired: 6 Jun 2014 11:26 am
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: mc30898-3
 Misc Info: op38366,msz101,5.19,,,2,1



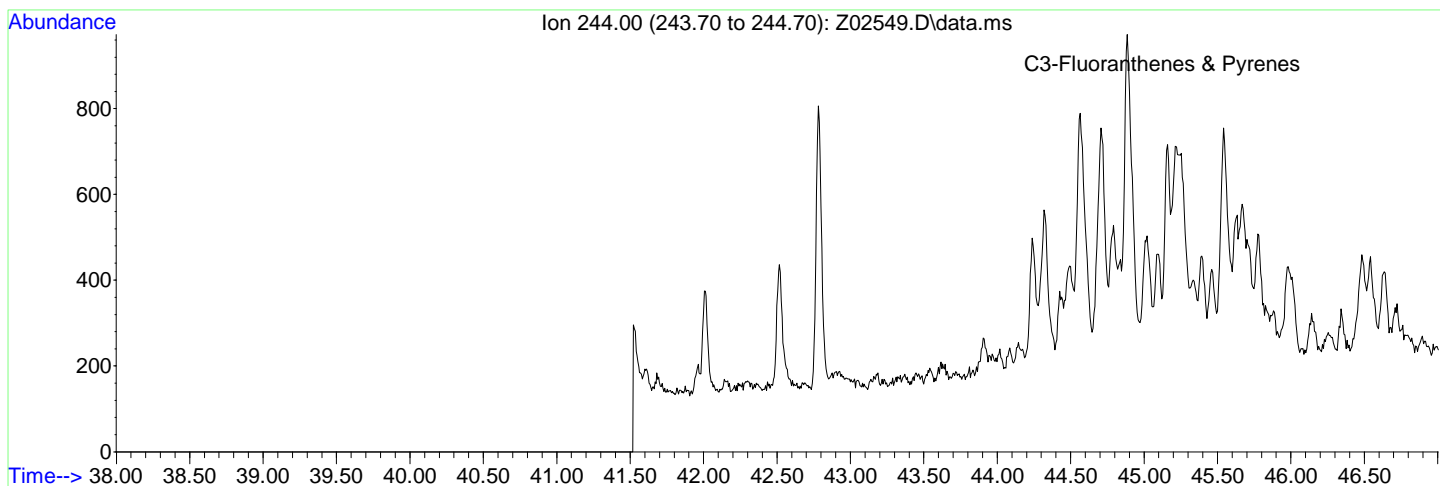
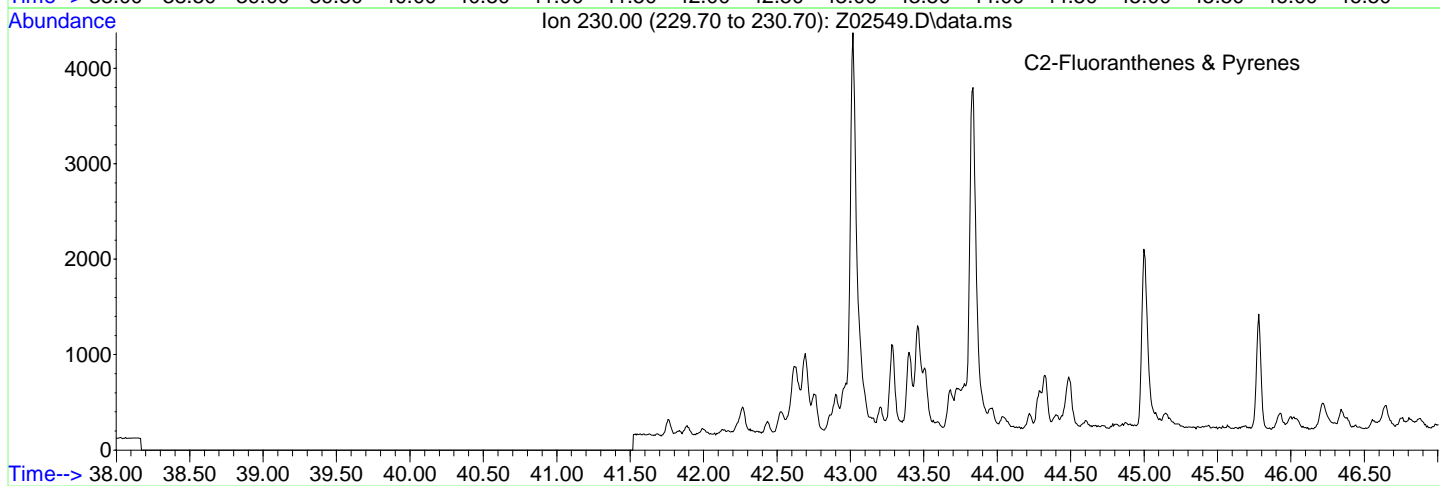
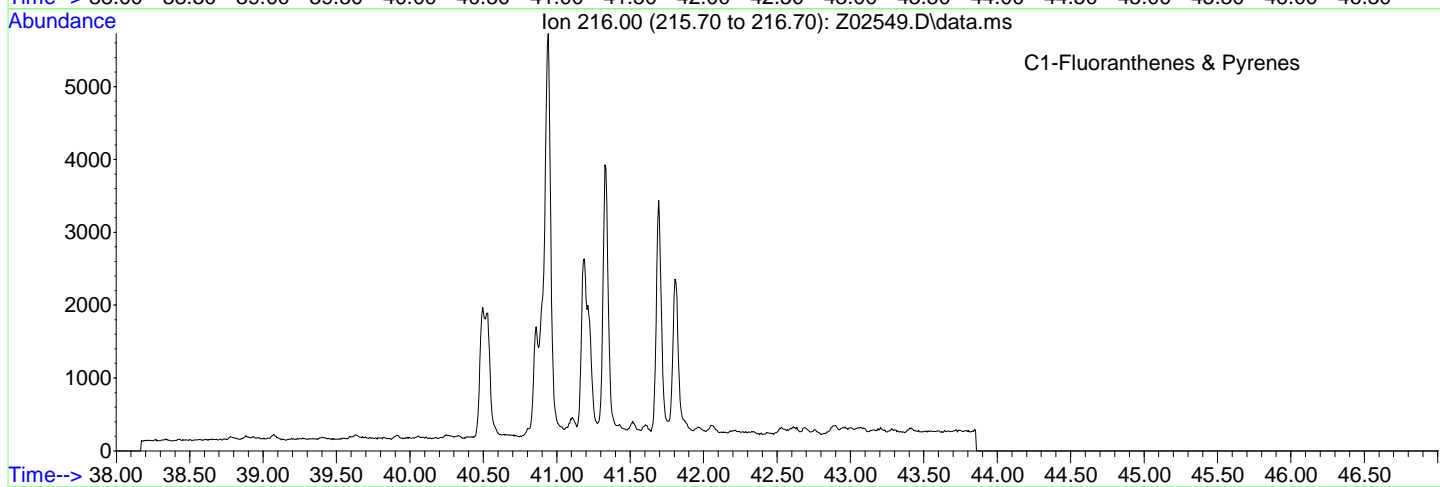
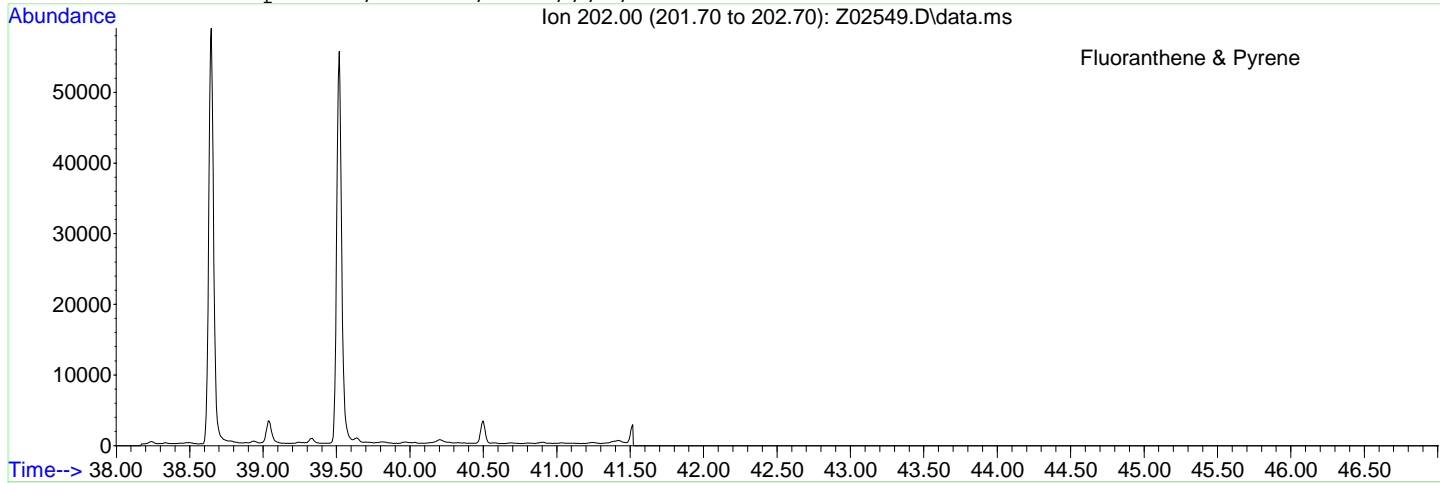
File: Z:\2\data\Z140605\Z02549.D
 Date Acquired: 6 Jun 2014 11:26 am
 Sample Name: mc30898-3
 Misc Info: op38366,msz101,5.19,,,2,1



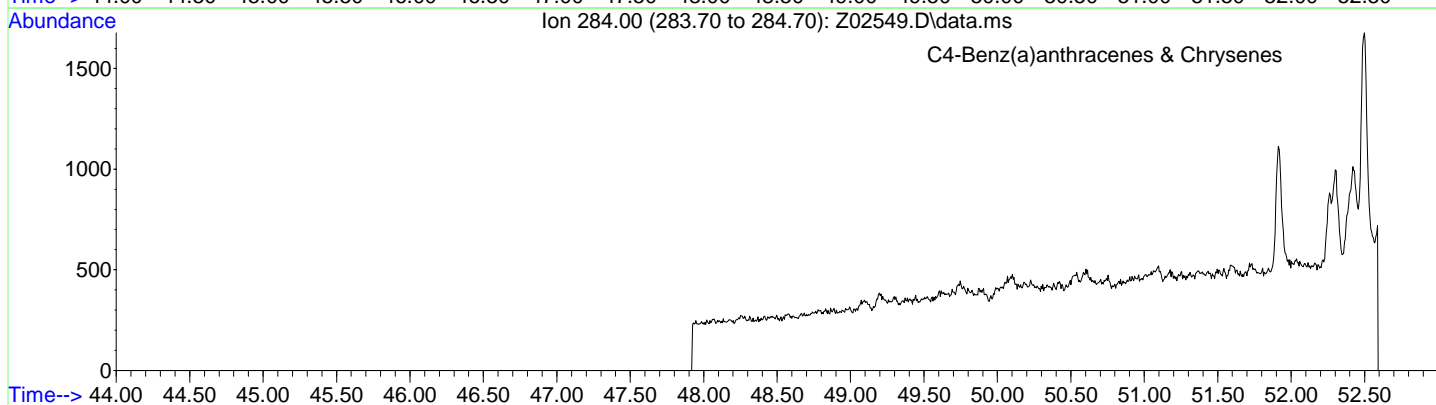
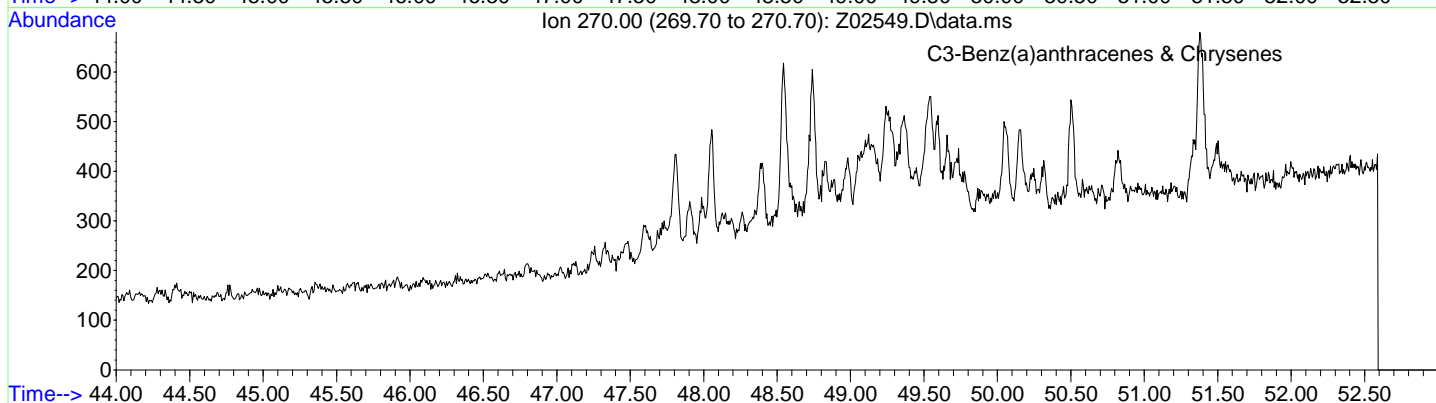
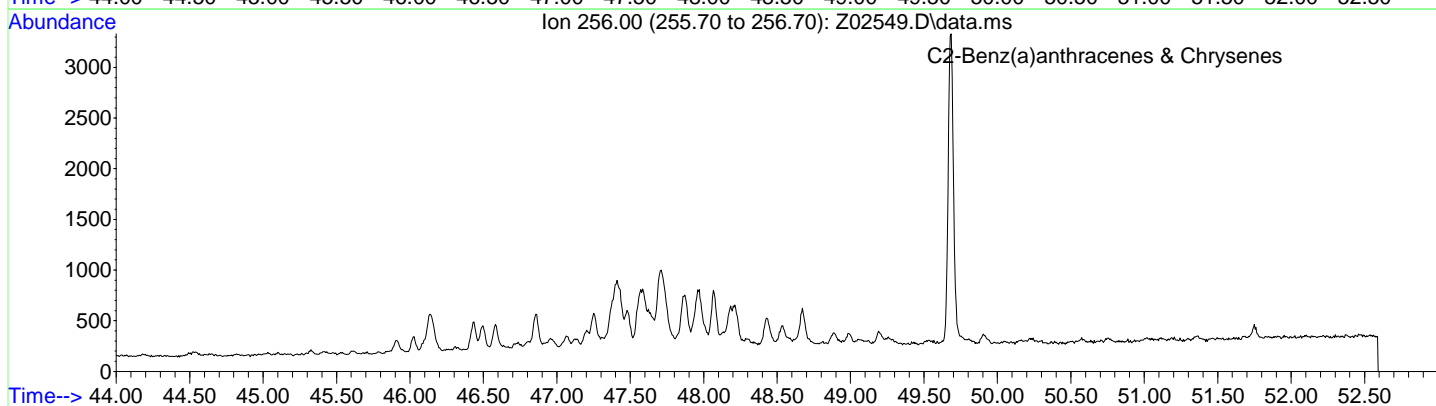
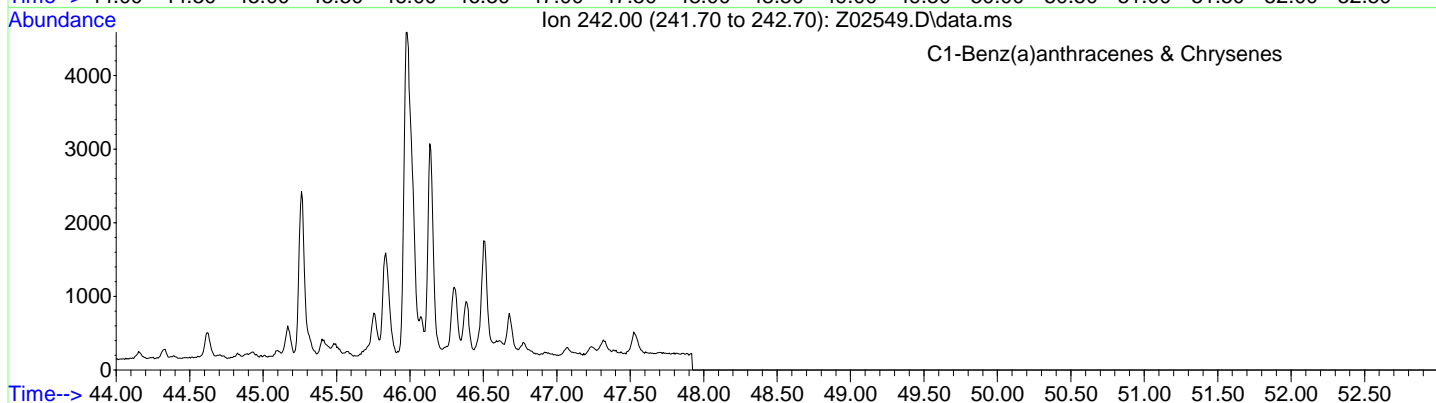
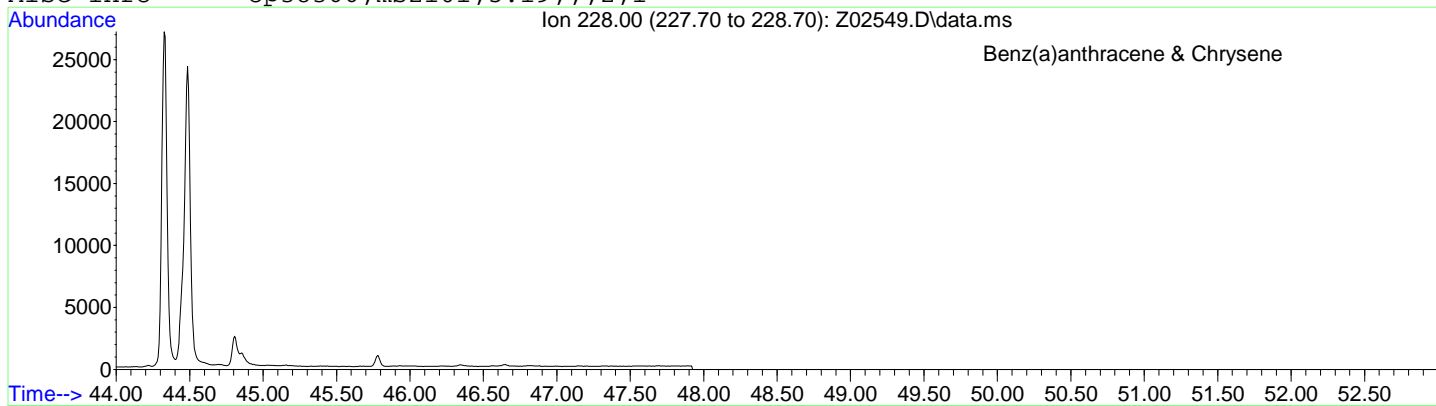
File: Z:\2\data\Z140605\Z02549.D
 Date Acquired: 6 Jun 2014 11:26 am
 Sample Name: mc30898-3
 Misc Info: op38366,msz101,5.19,,,2,1



File: Z:\2\data\Z140605\Z02549.D
 Date Acquired: 6 Jun 2014 11:26 am
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: mc30898-3
 Misc Info: op38366,msz101,5.19,,,2,1



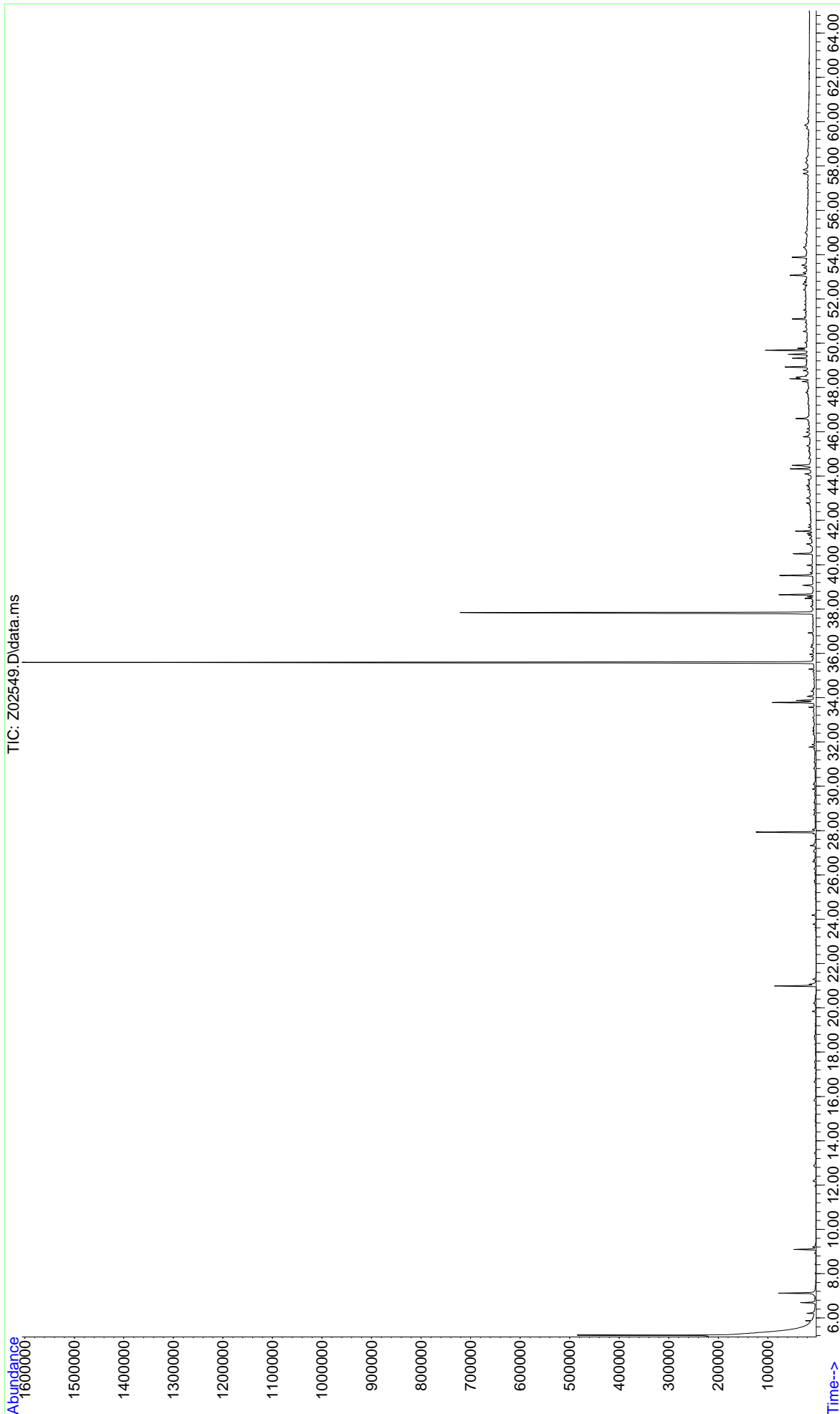
File: Z:\2\data\Z140605\Z02549.D
Date Acquired: 6 Jun 2014 11:26 am
Sample Name: mc30898-3
Misc Info: op38366,msz101,5.19,,,2,1



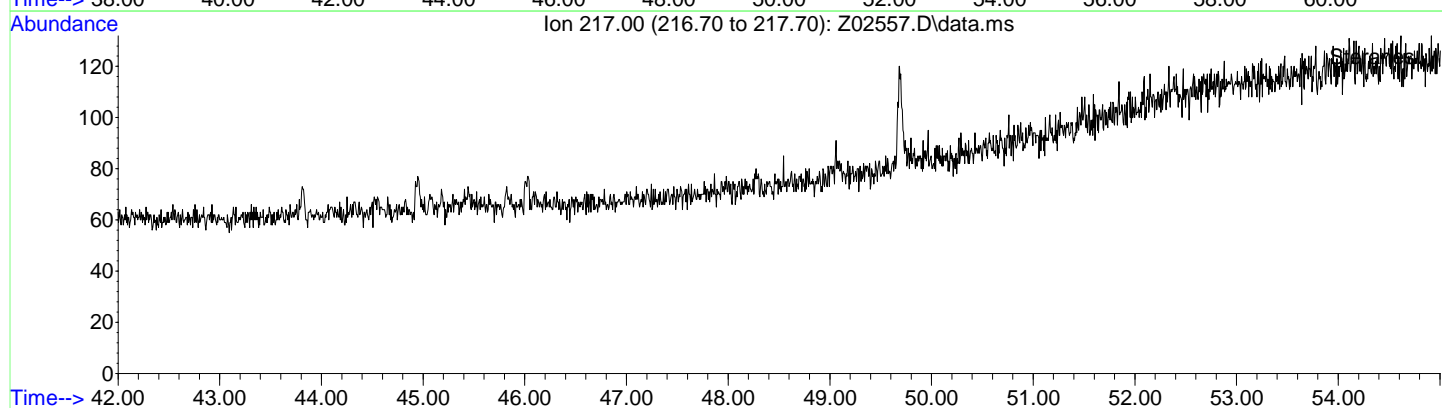
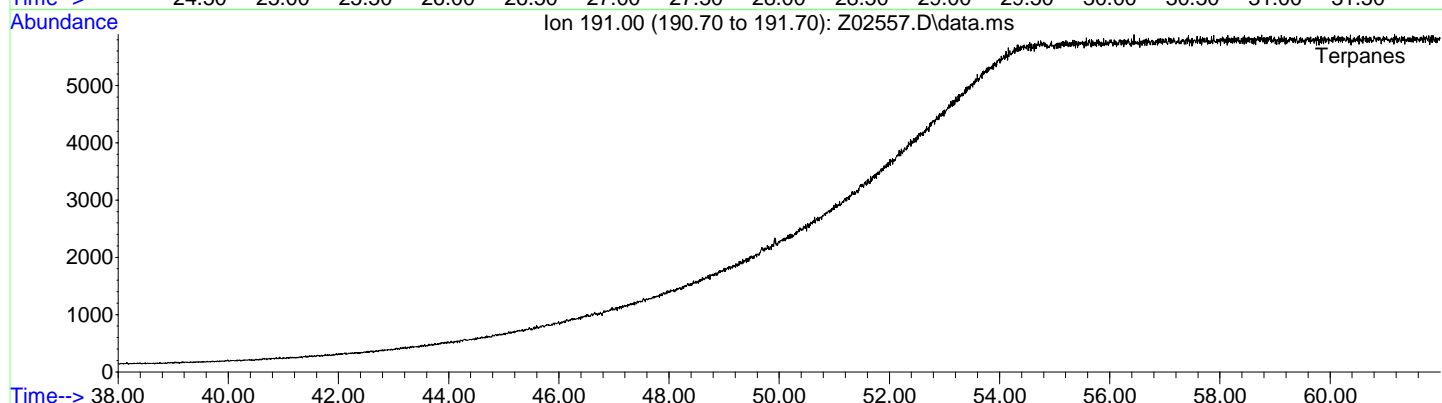
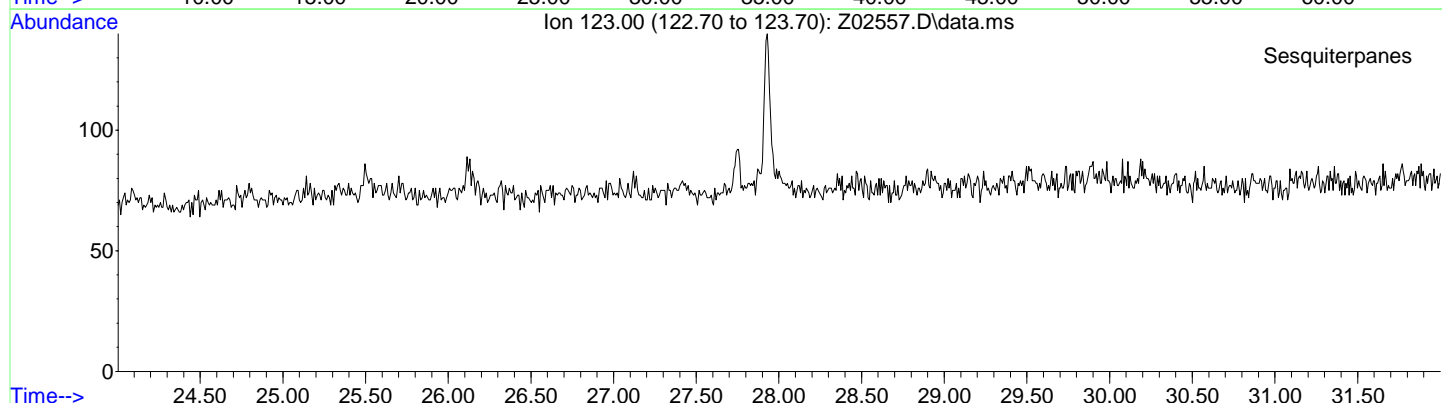
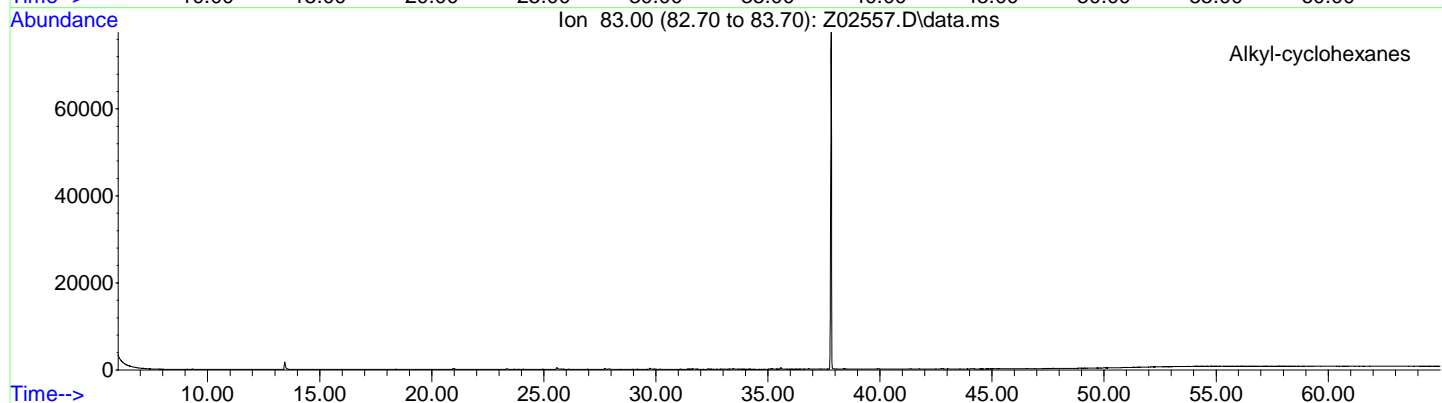
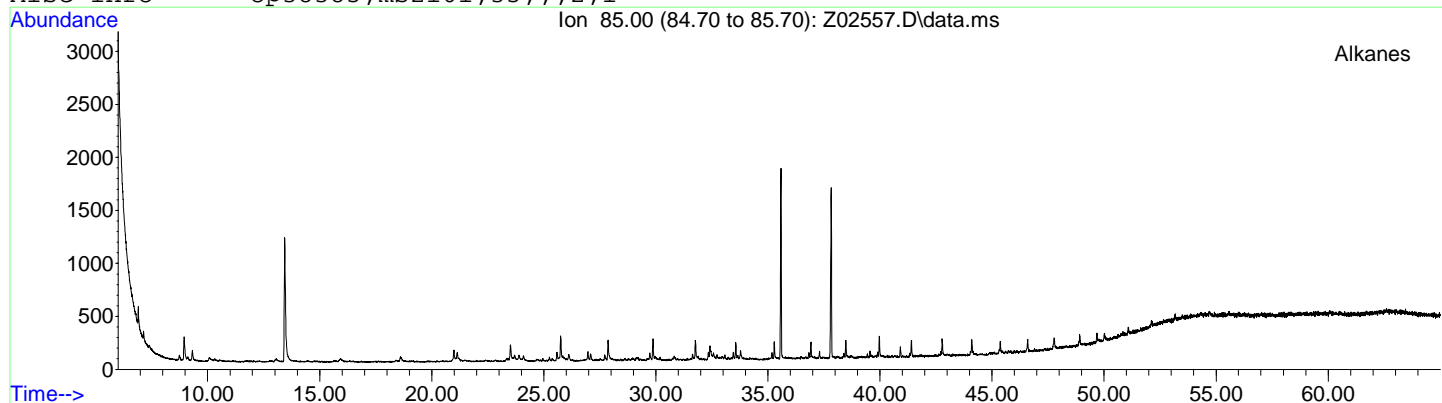
ACCUTEST

GC/MS TOTAL ION CHROMATOGRAM

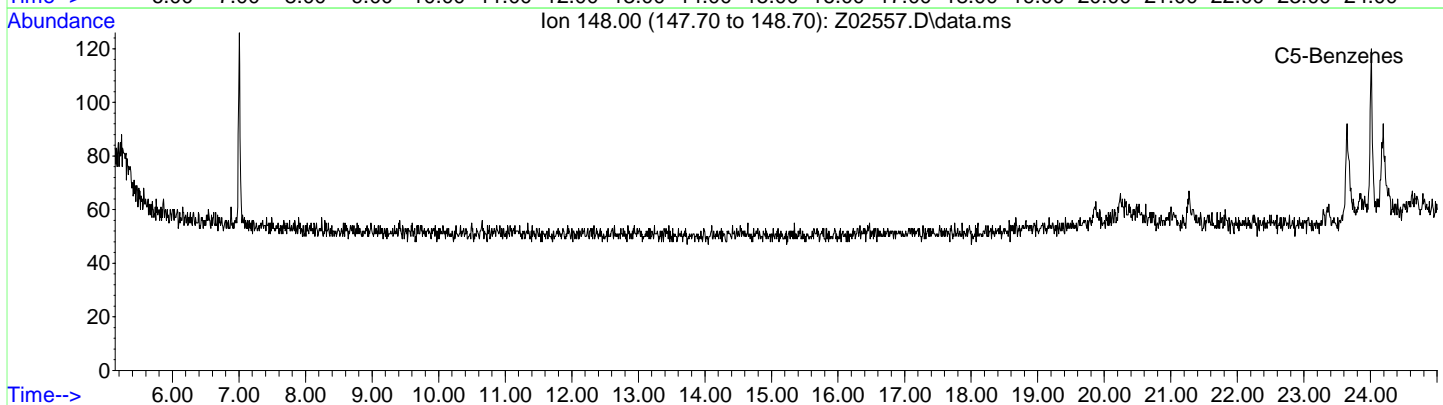
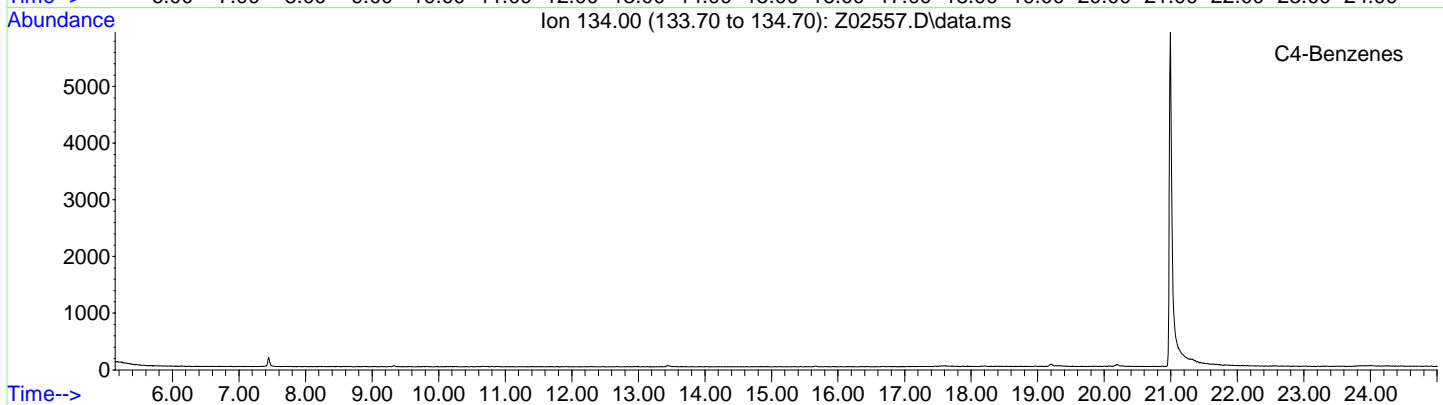
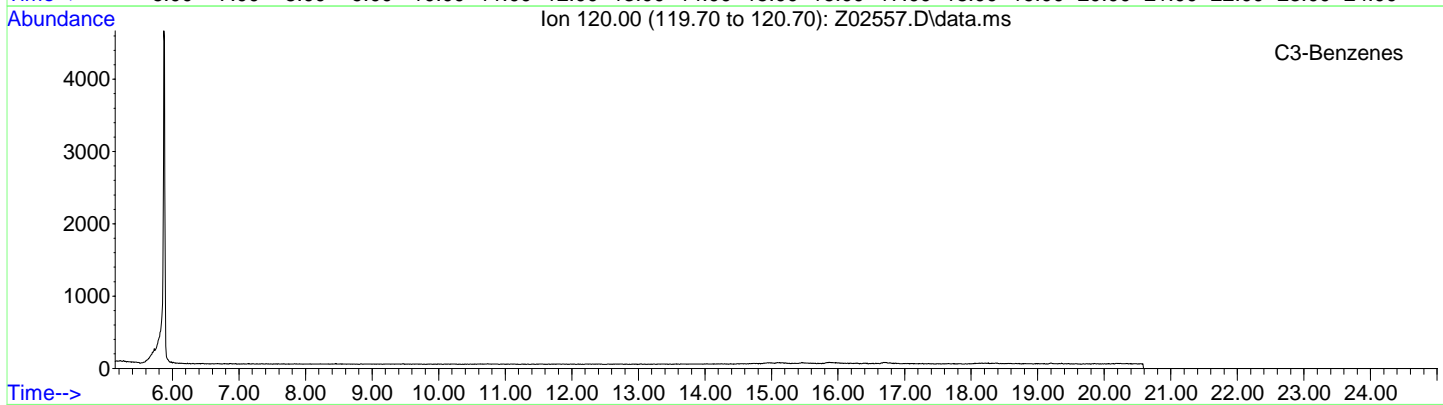
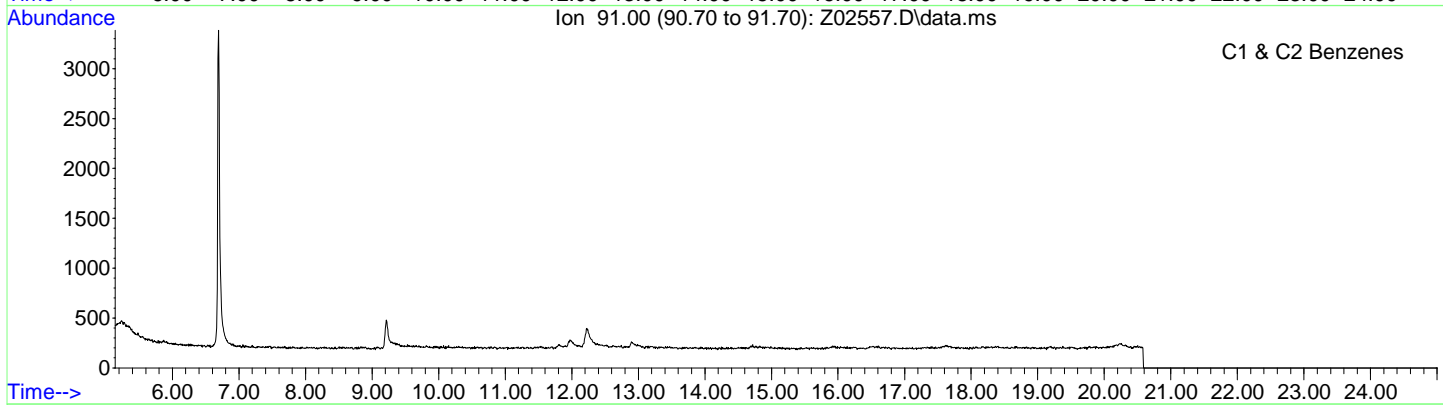
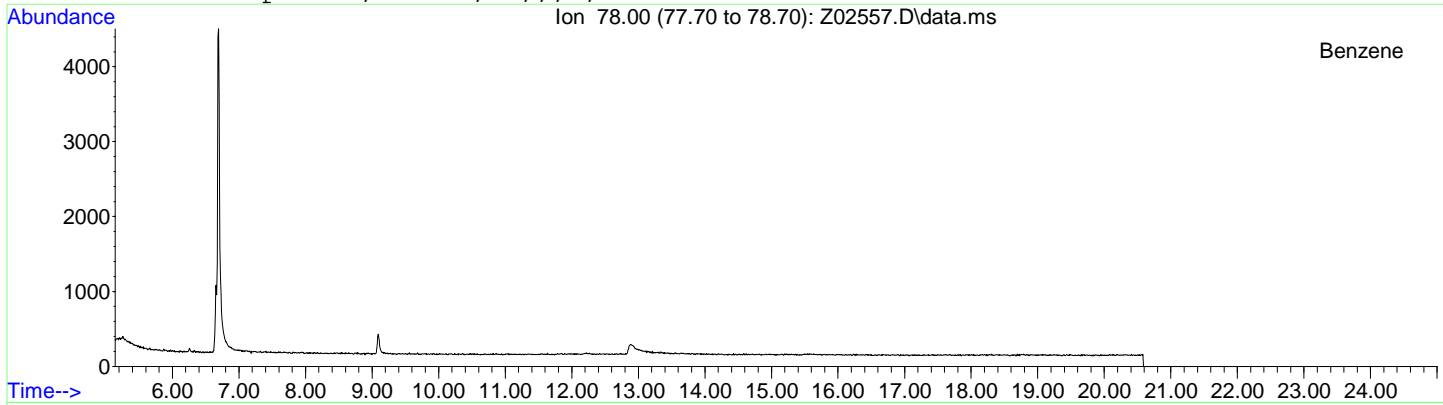
File: Z:\2\data\Z140605\Z02549.D
Date Acquired: 6 Jun 2014 11:26 am
Method File: ZAPHSIM-MTBE.M
Sample Name: mc30898-3
Misc Info: op38366,msz101,5.19,,,2,1



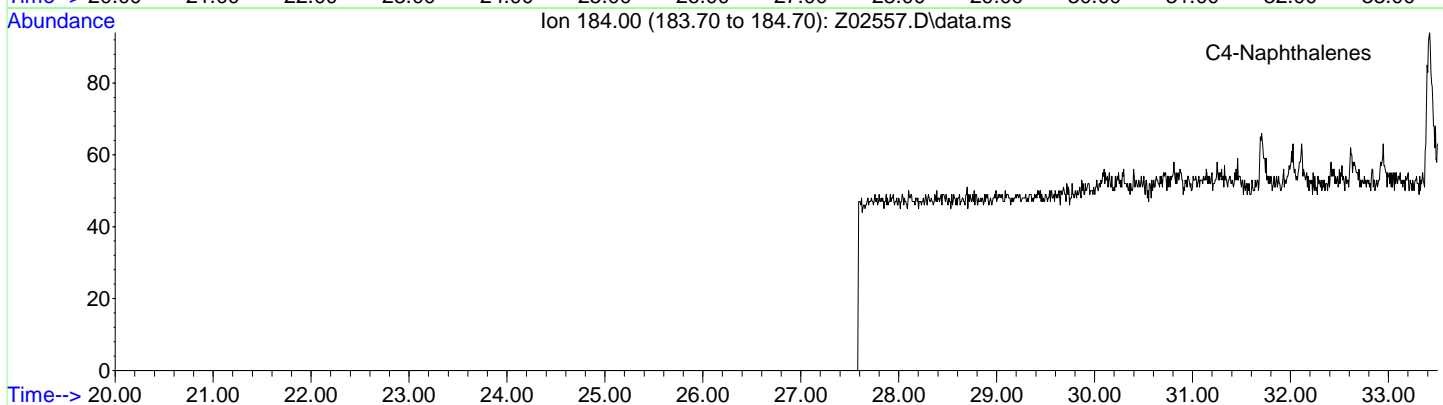
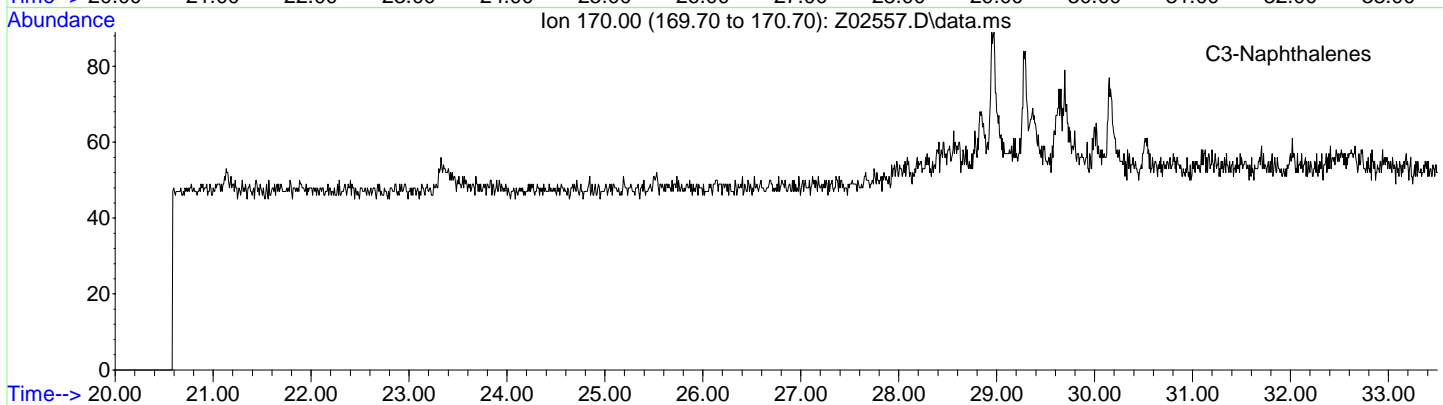
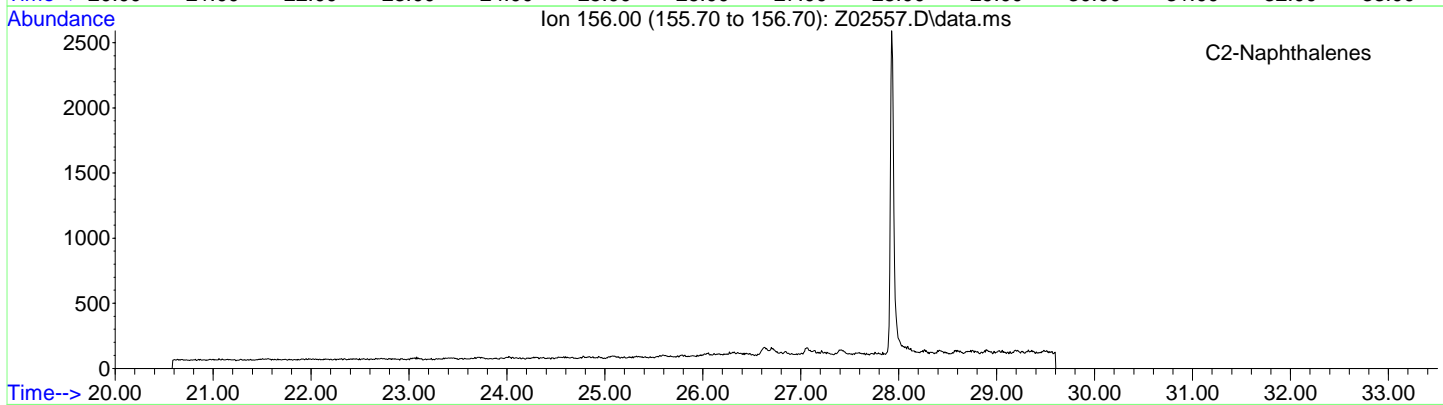
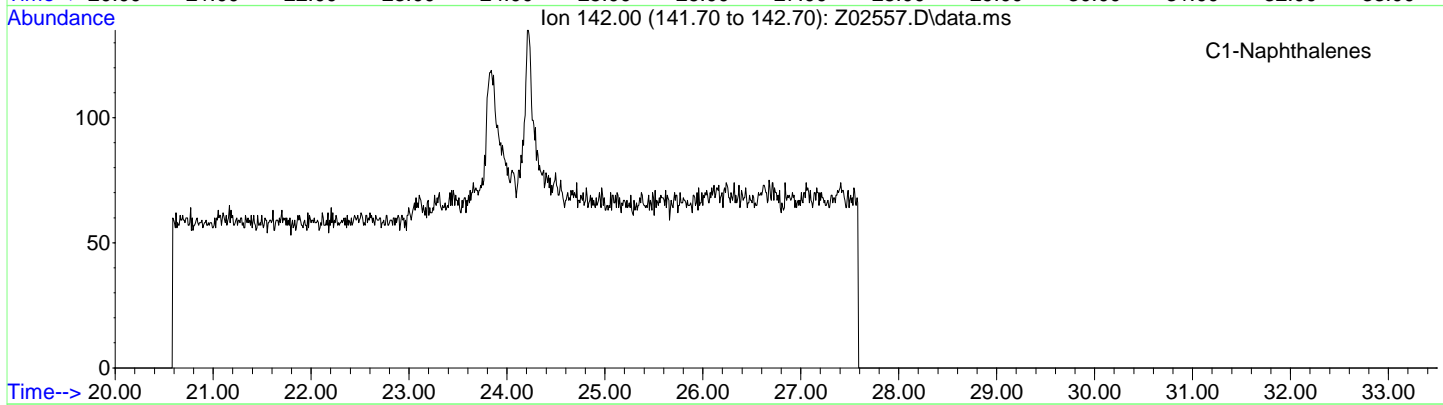
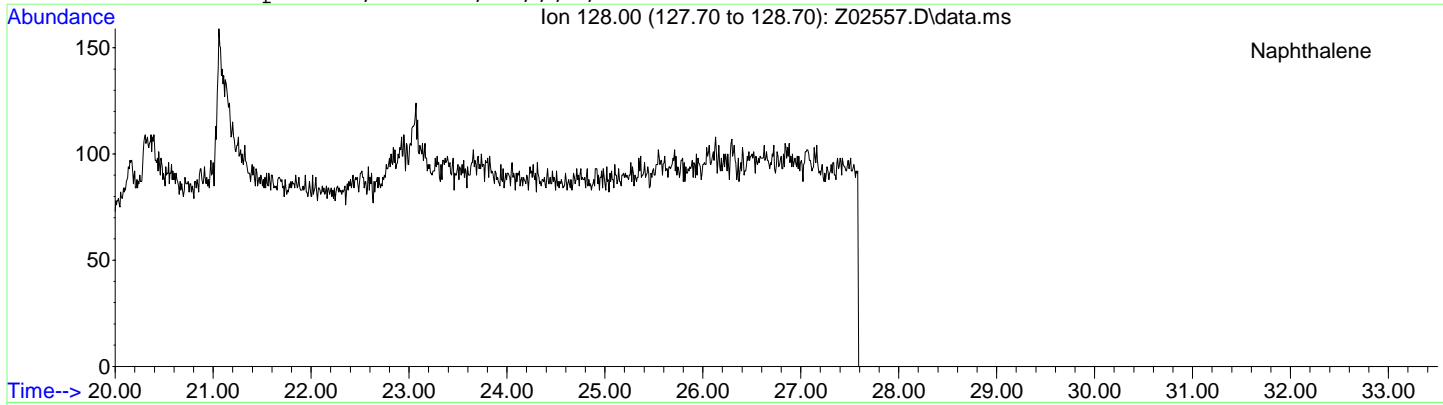
File: Z:\2\data\Z140605\Z02557.D
Date Acquired: 6 Jun 2014 9:51 pm
Sample Name: mc30898-4
Misc Info: op38385,msz101,35,,2,1



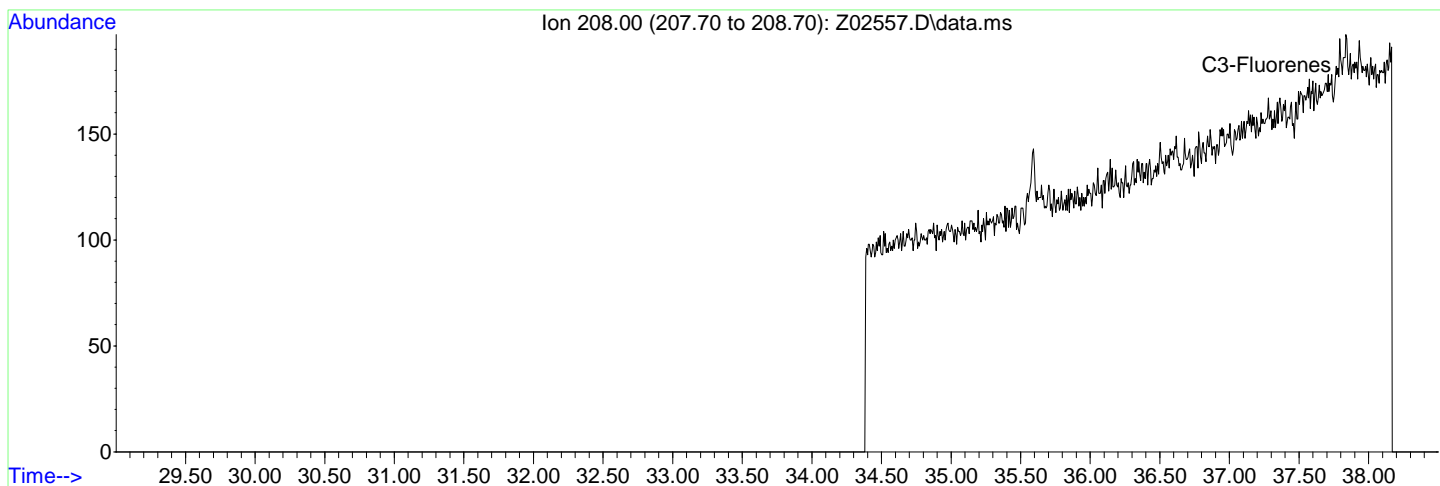
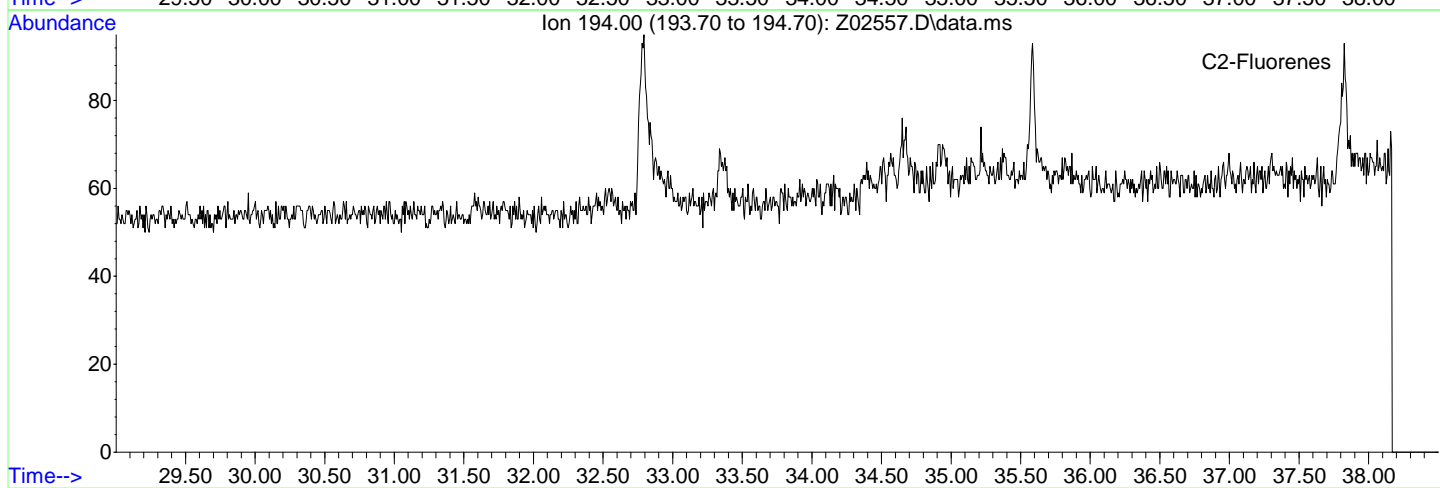
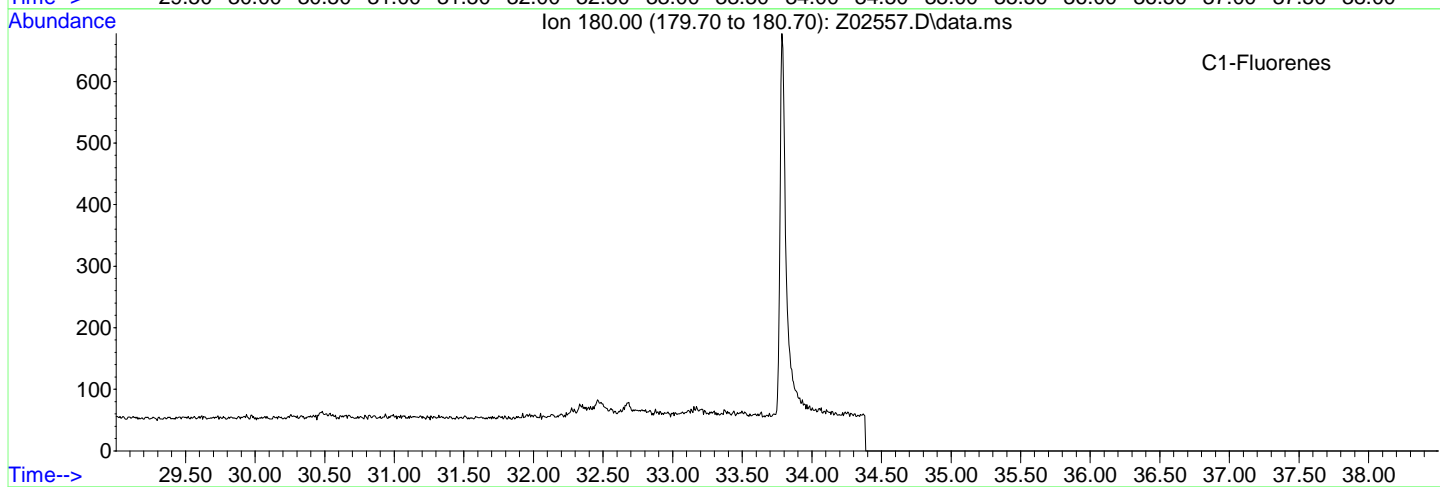
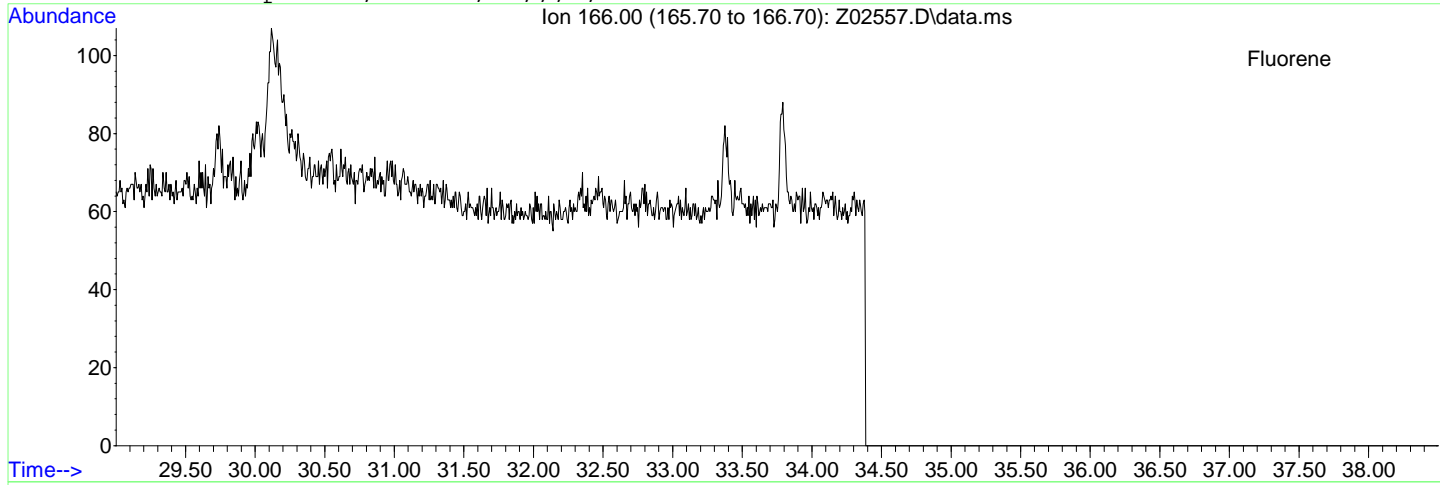
File: Z:\2\data\Z140605\Z02557.D
Date Acquired: 6 Jun 2014 9:51 pm
Sample Name: mc30898-4
Misc Info: op38385,msz101,35,,,2,1



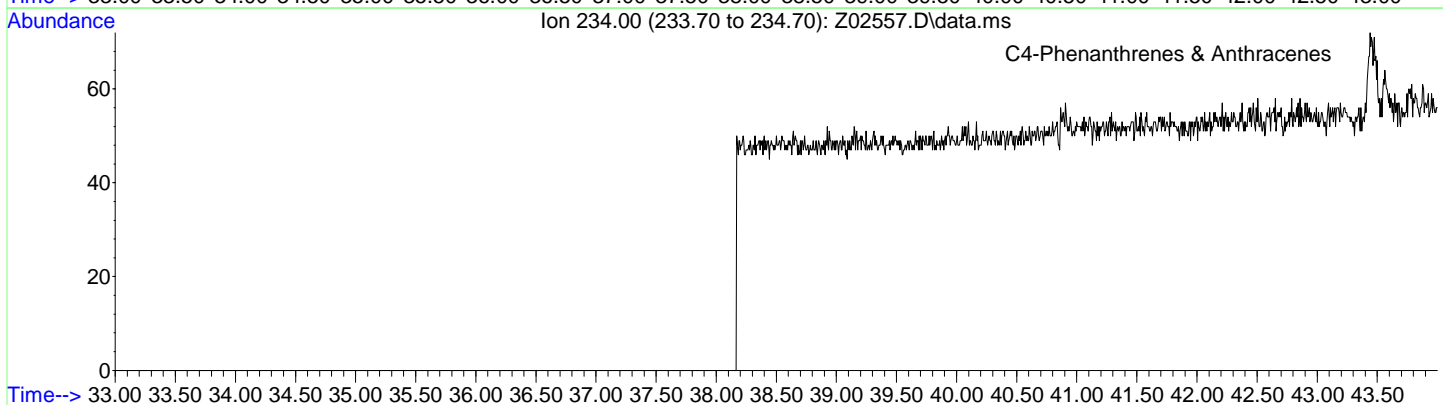
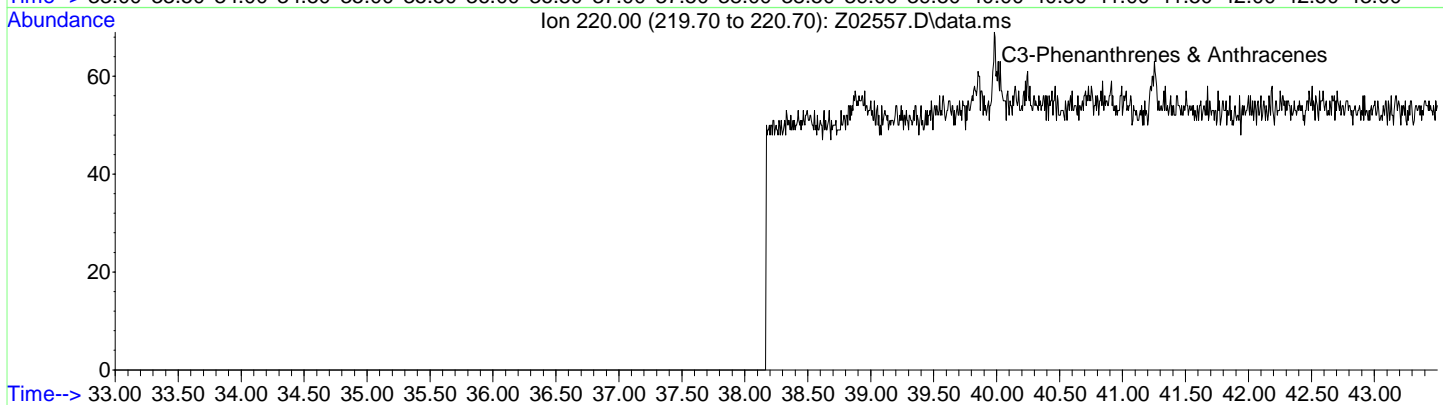
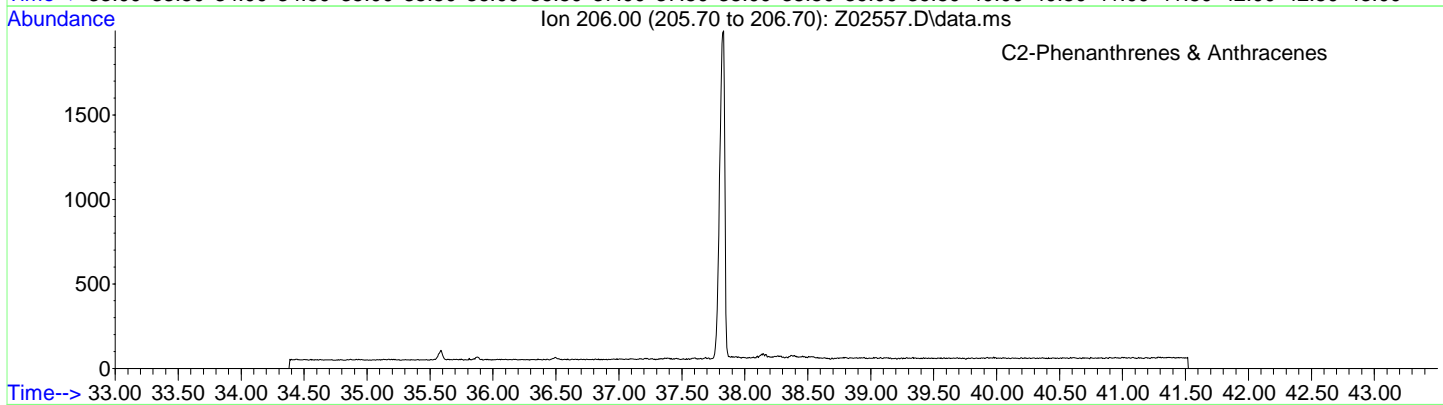
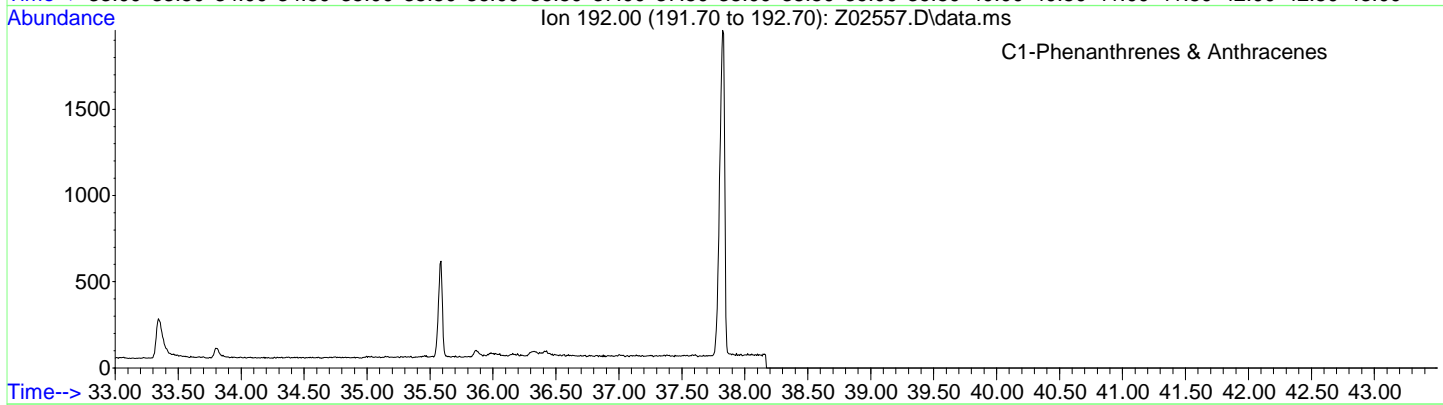
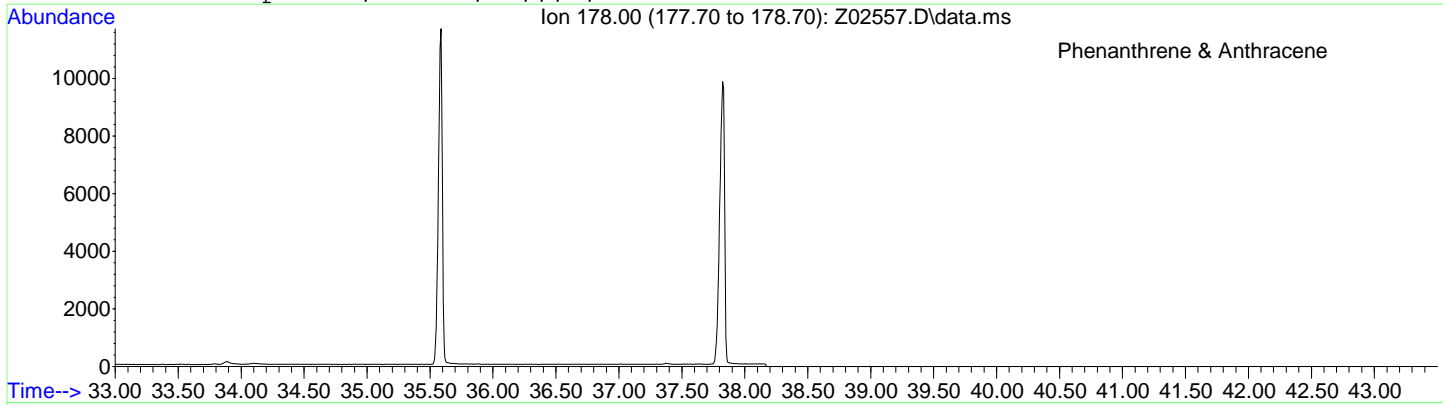
File: Z:\2\data\Z140605\Z02557.D
 Date Acquired: 6 Jun 2014 9:51 pm
 Sample Name: mc30898-4
 Misc Info: op38385,msz101,35,,2,1



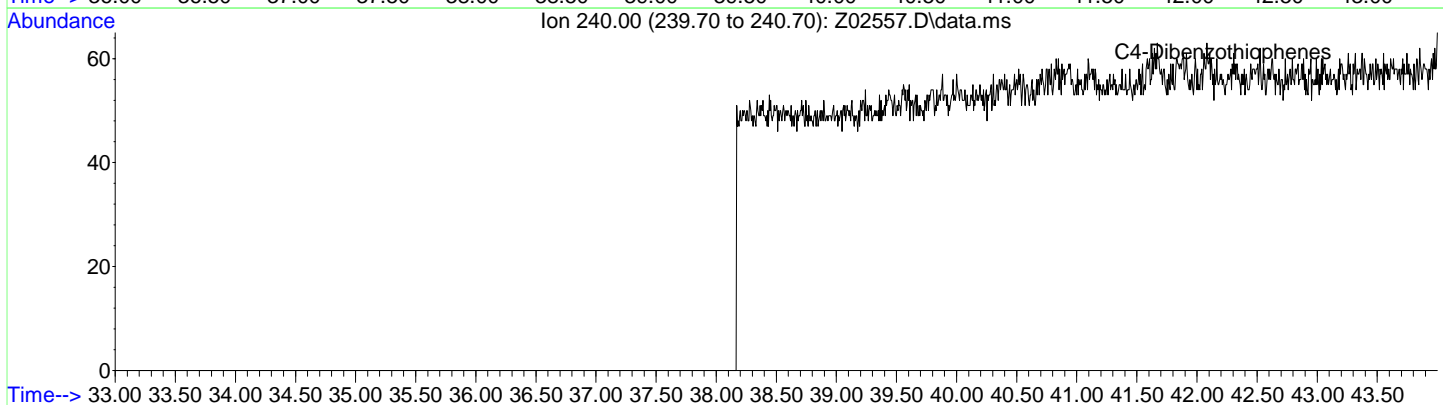
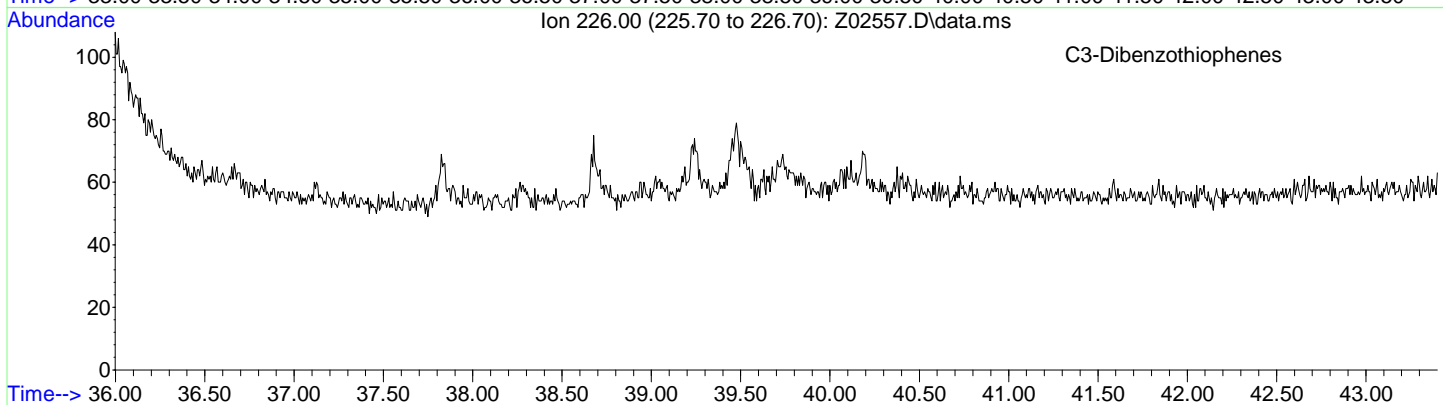
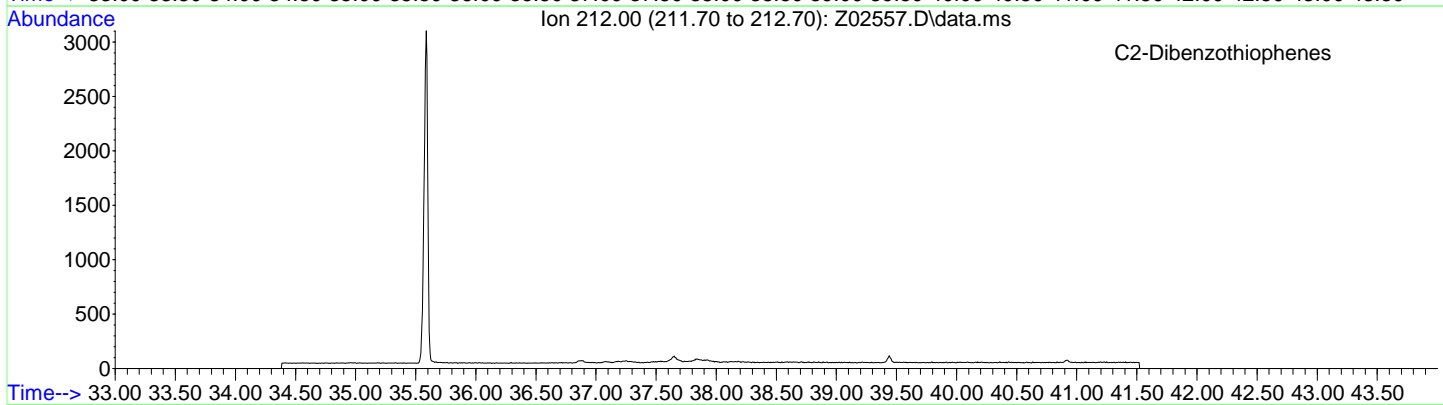
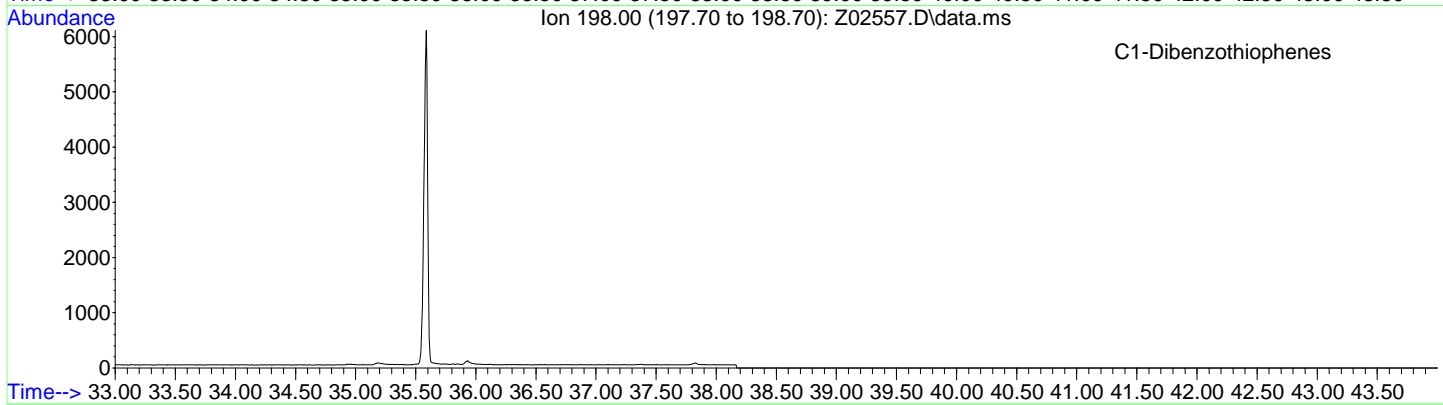
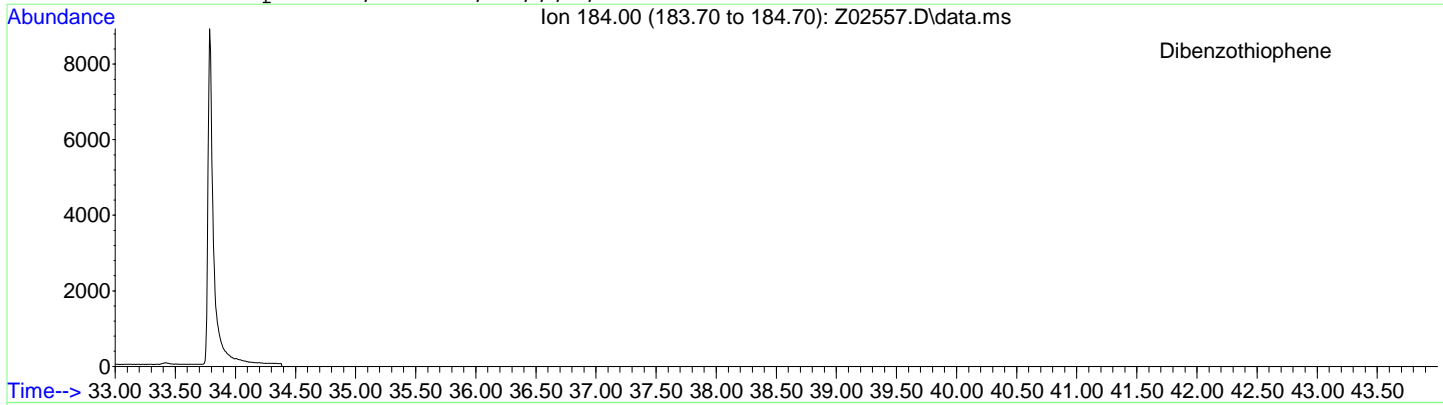
File: Z:\2\data\Z140605\Z02557.D
 Date Acquired: 6 Jun 2014 9:51 pm
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: mc30898-4
 Misc Info: op38385,msz101,35,,,2,1



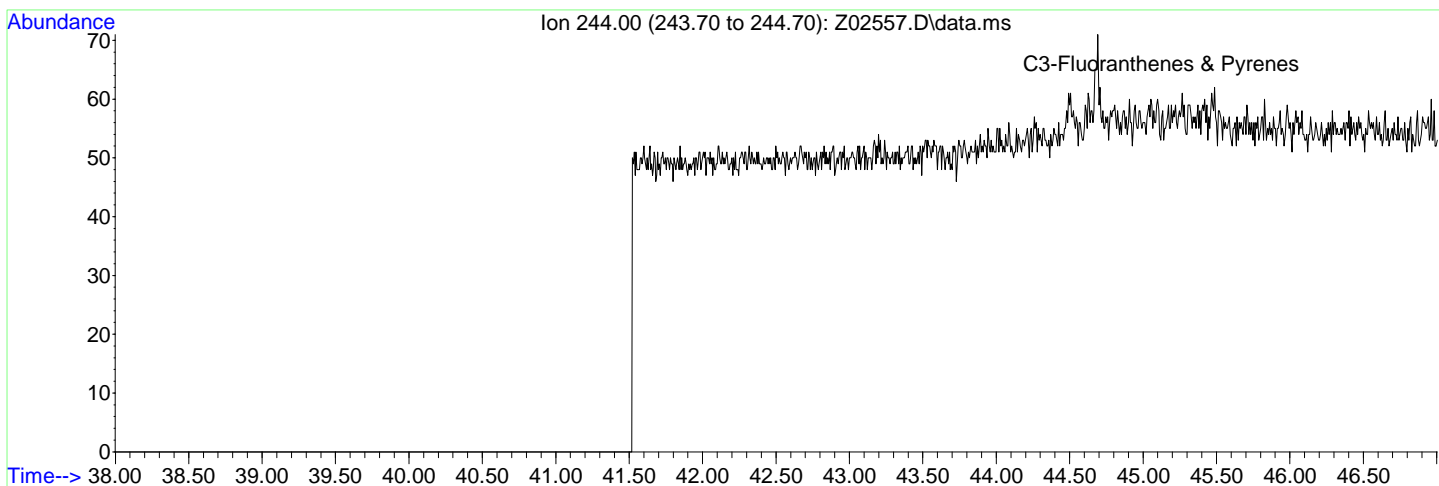
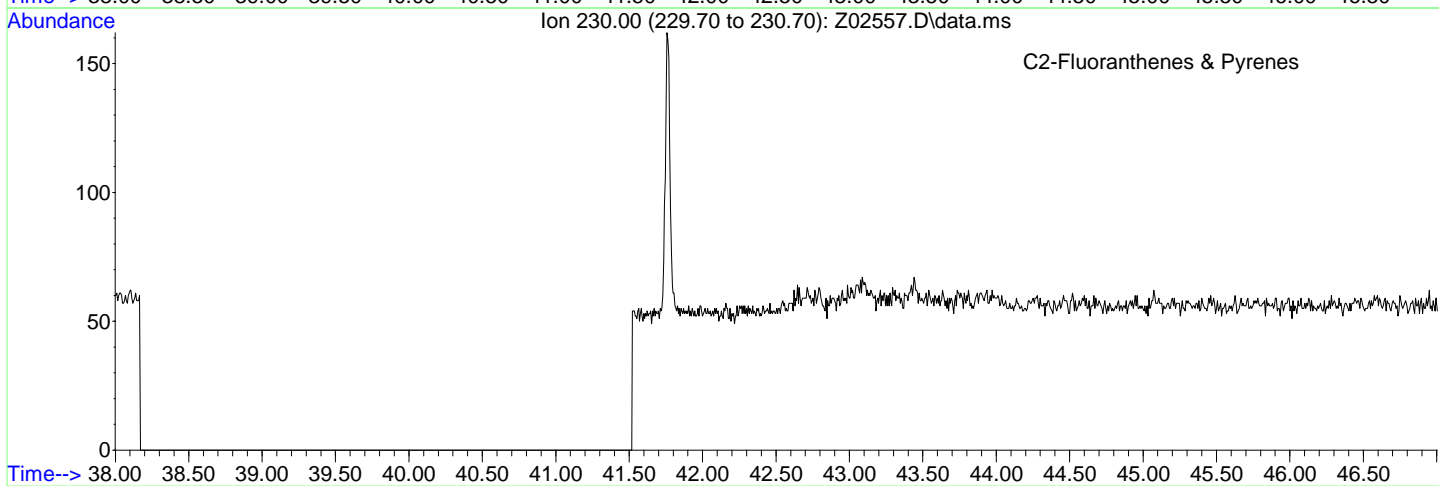
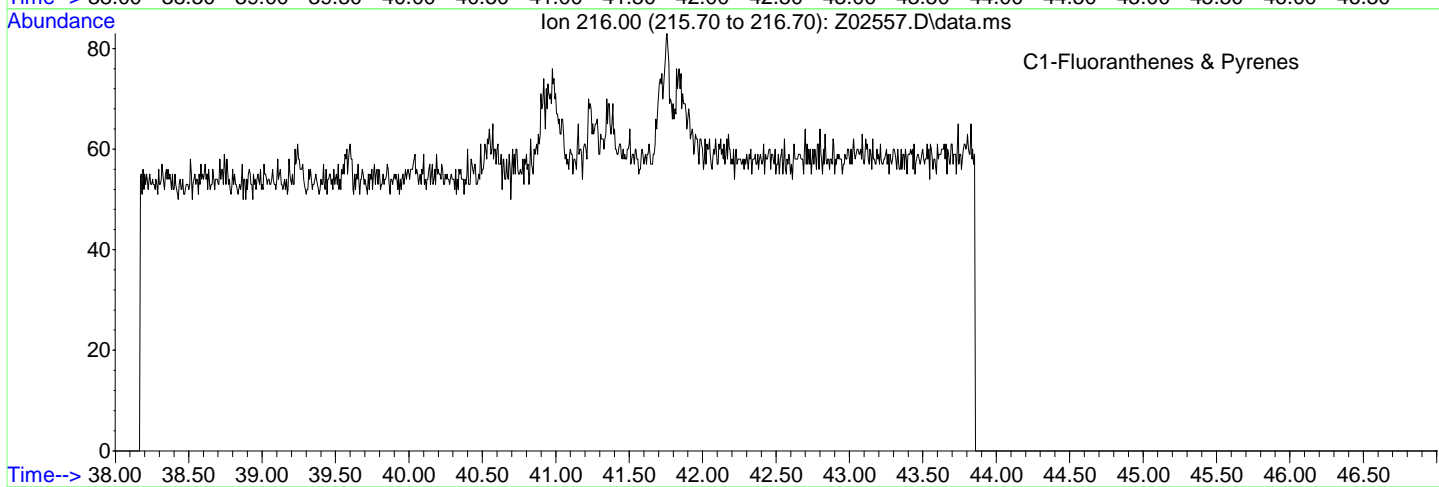
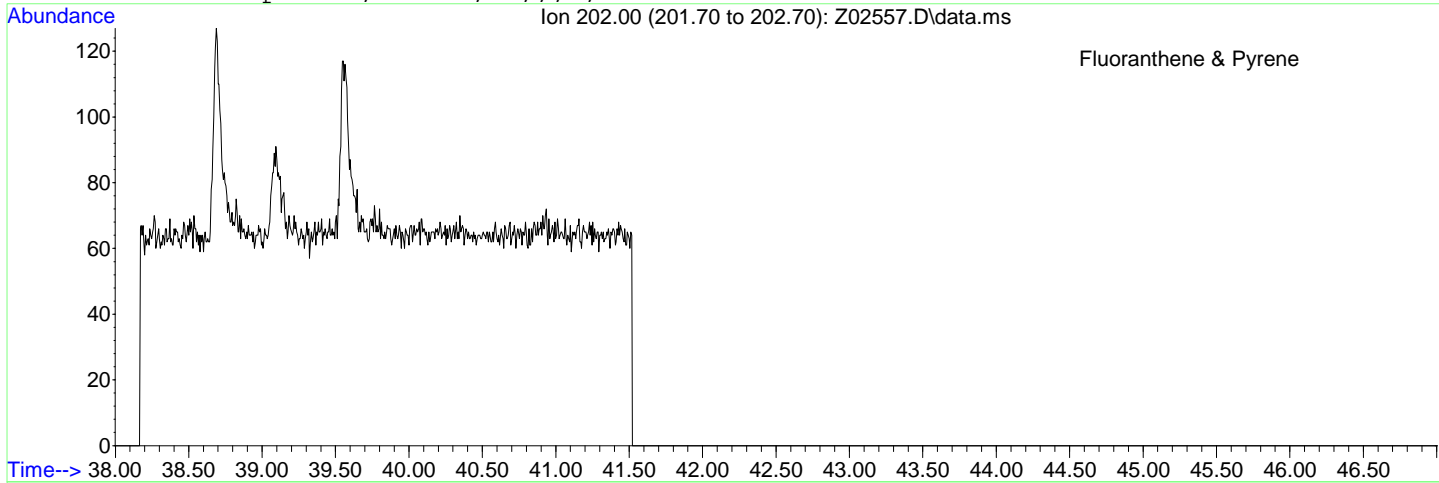
File: Z:\2\data\Z140605\Z02557.D
 Date Acquired: 6 Jun 2014 9:51 pm
 Sample Name: mc30898-4
 Misc Info: op38385,msz101,35,,,2,1



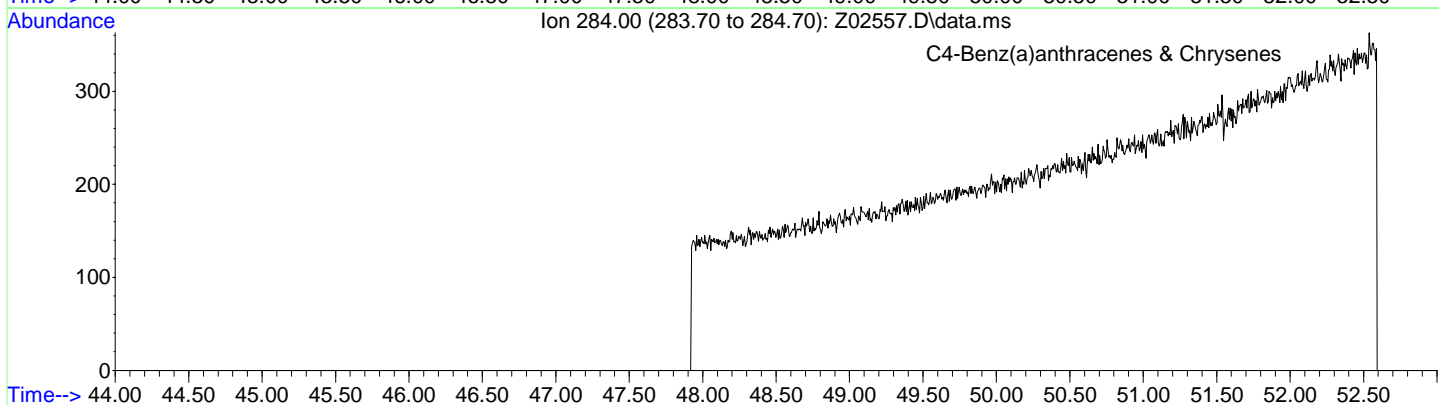
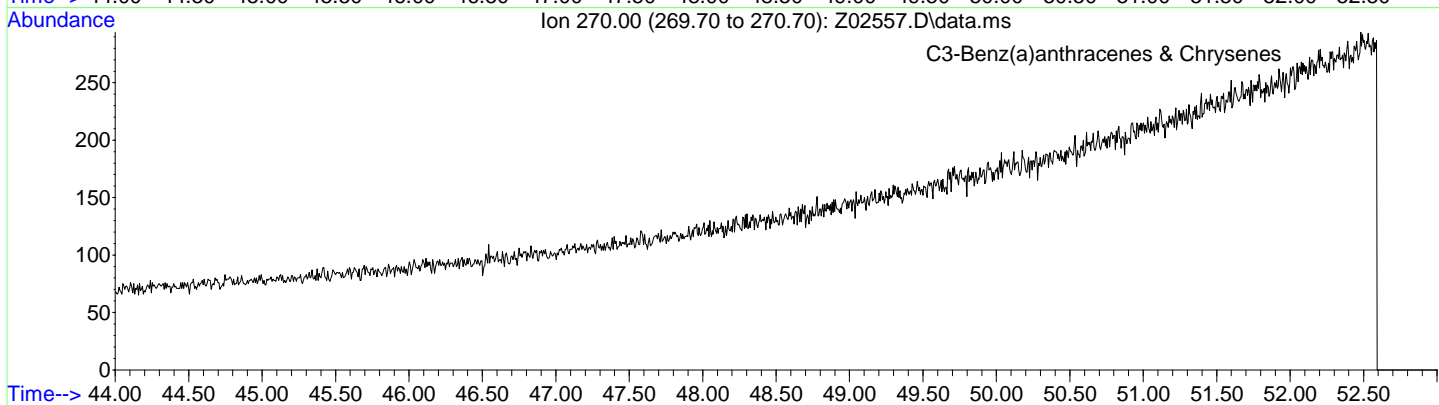
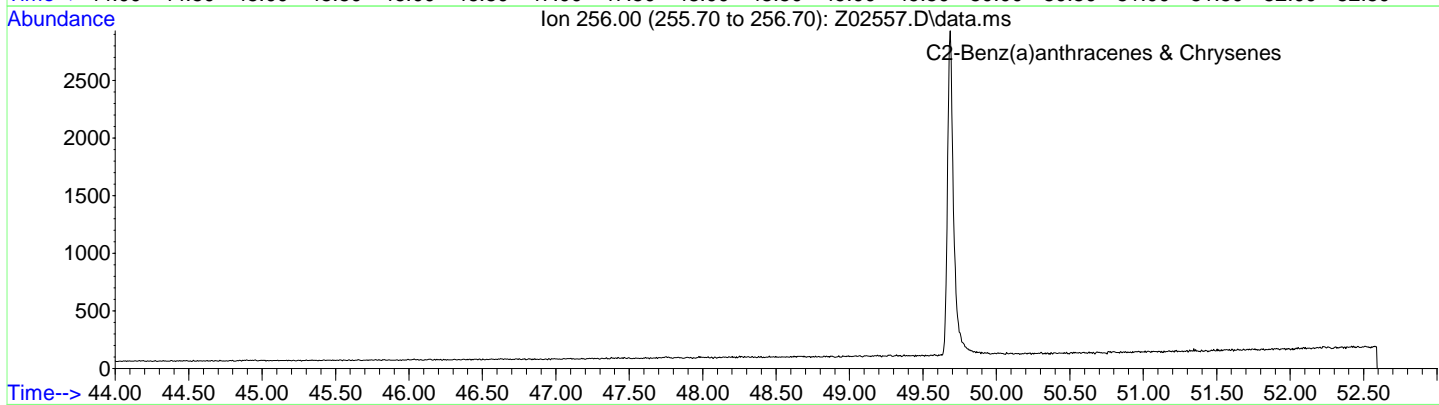
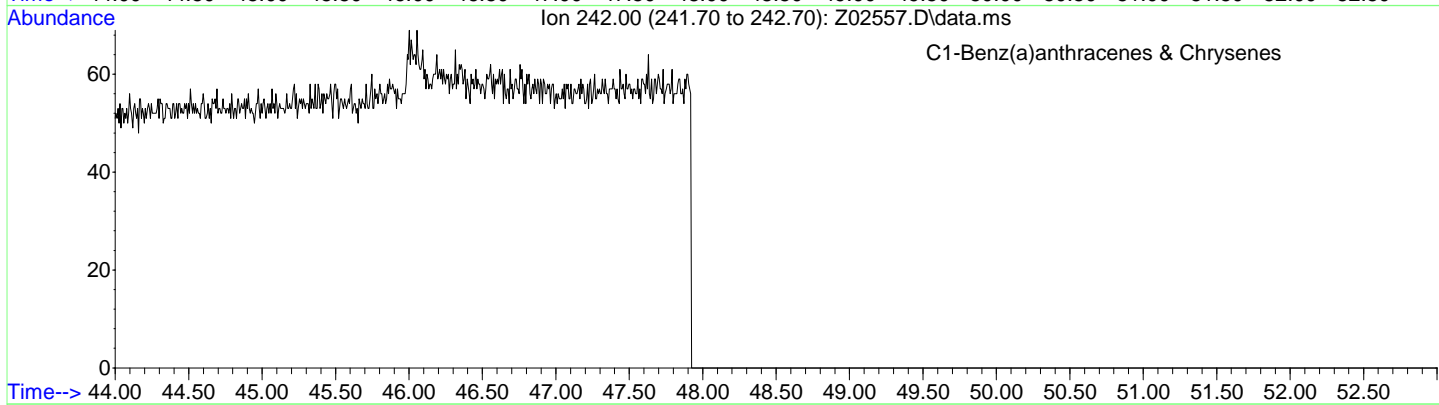
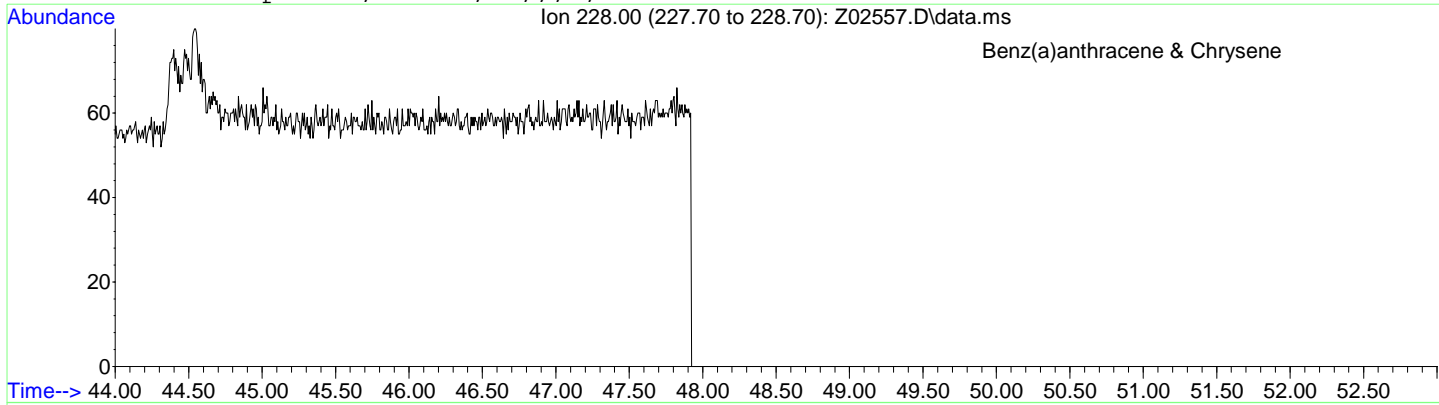
File: Z:\2\data\Z140605\Z02557.D
 Date Acquired: 6 Jun 2014 9:51 pm
 Sample Name: mc30898-4
 Misc Info: op38385,msz101,35,,2,1



File: Z:\2\data\Z140605\Z02557.D
 Date Acquired: 6 Jun 2014 9:51 pm
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: mc30898-4
 Misc Info: op38385,msz101,35,,,2,1



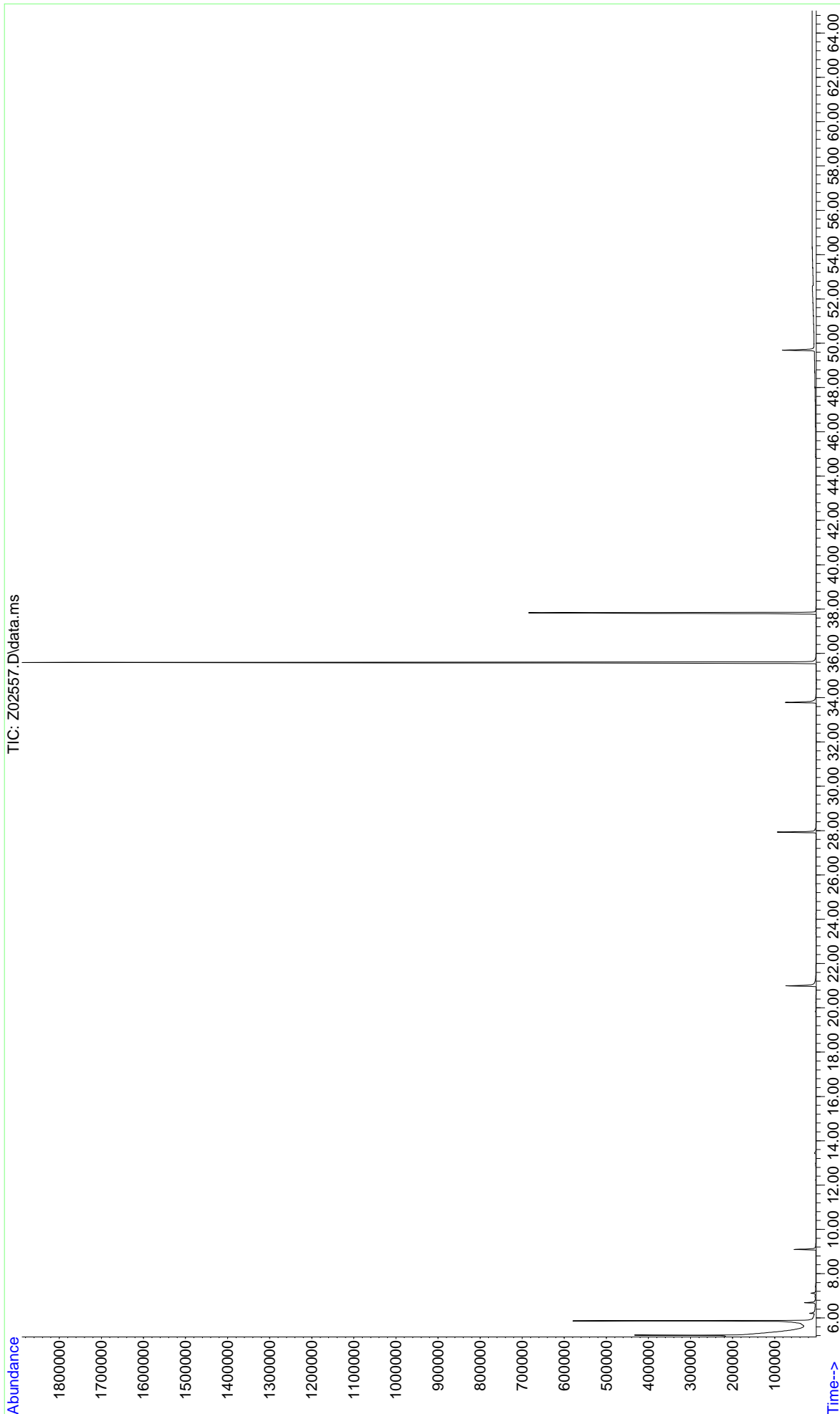
File: Z:\2\data\Z140605\Z02557.D
 Date Acquired: 6 Jun 2014 9:51 pm
 Sample Name: mc30898-4
 Misc Info: op38385,msz101,35,,2,1



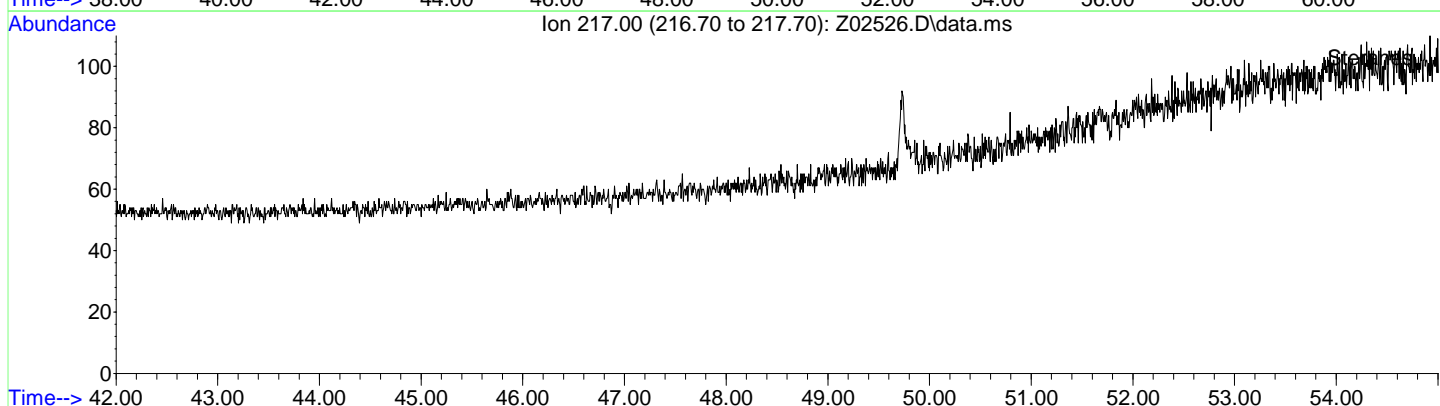
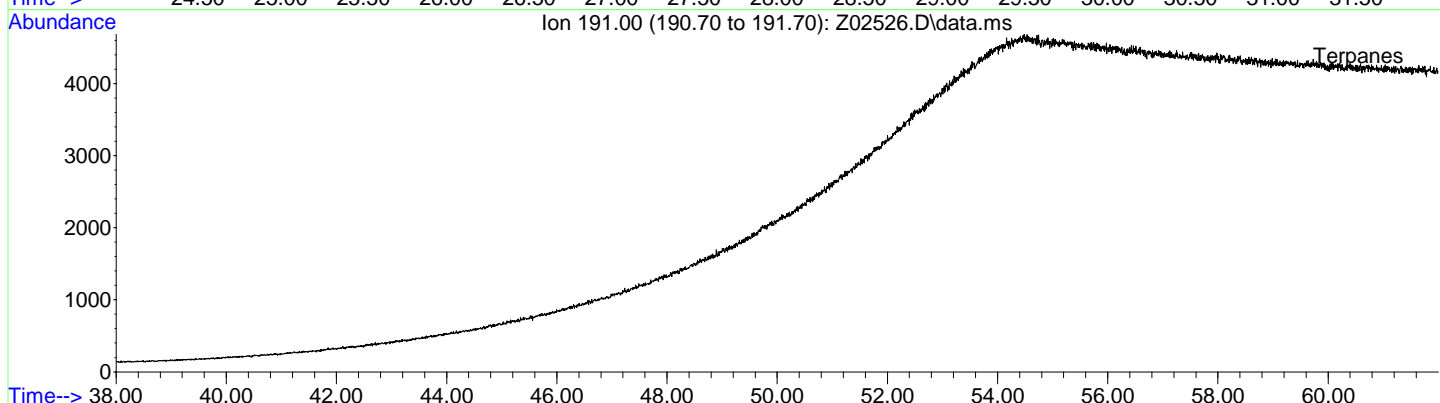
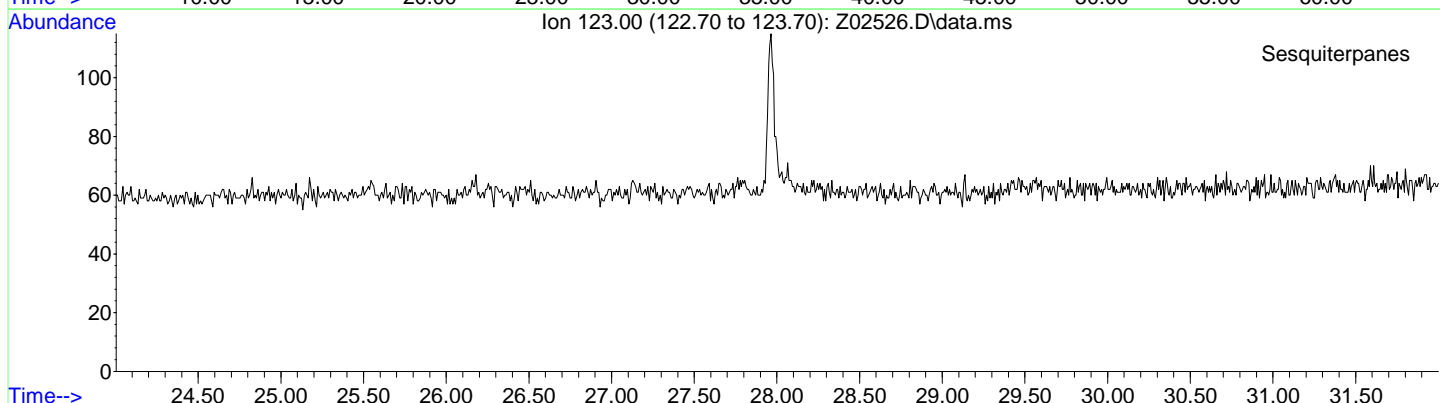
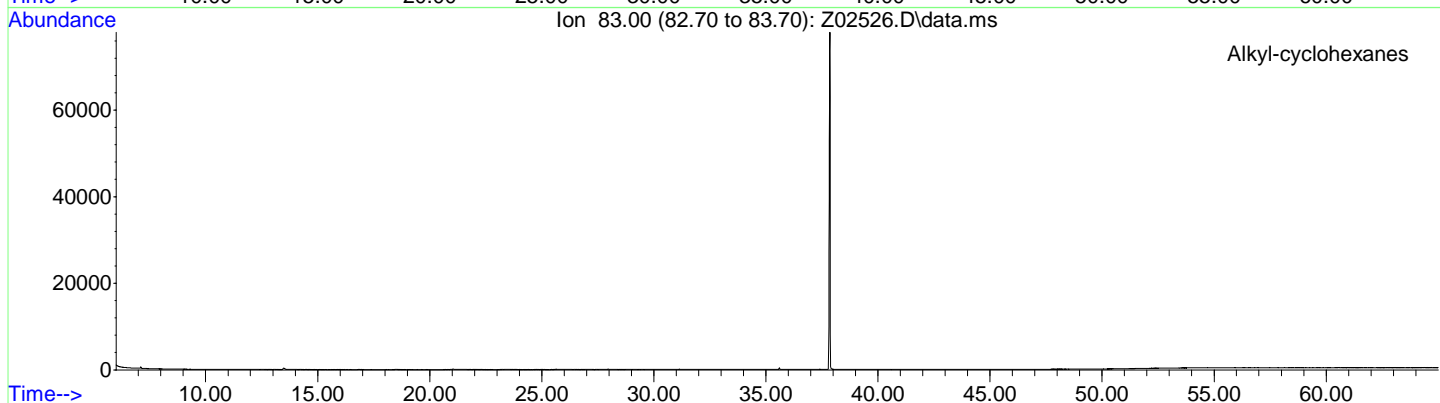
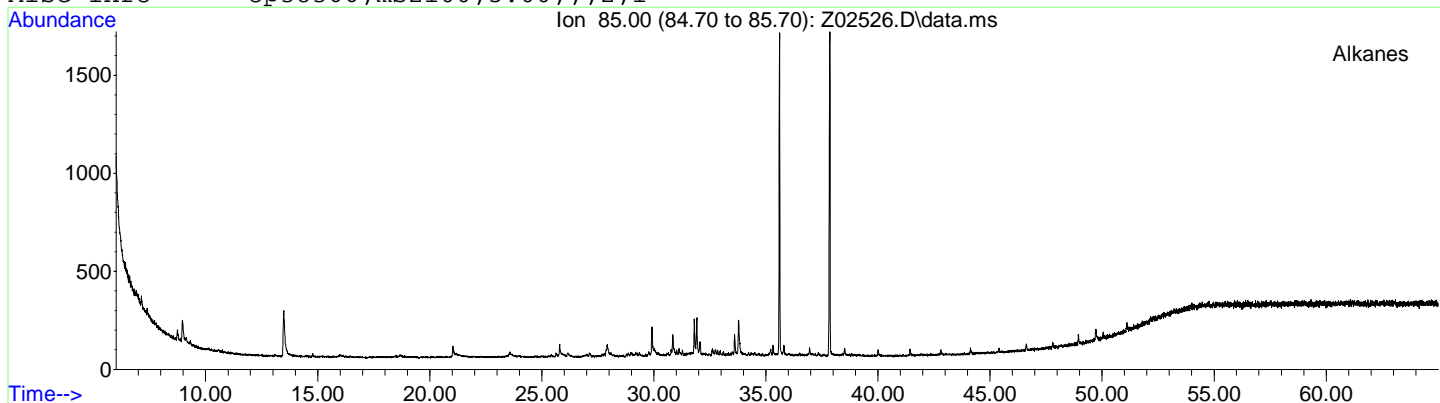
ACCUTEST

GC/MS TOTAL ION CHROMATOGRAM

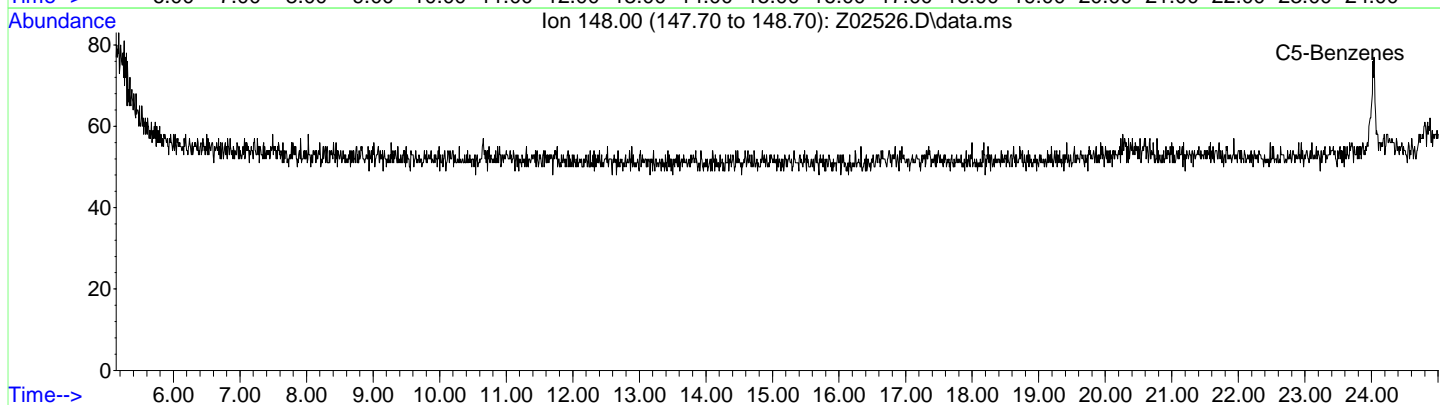
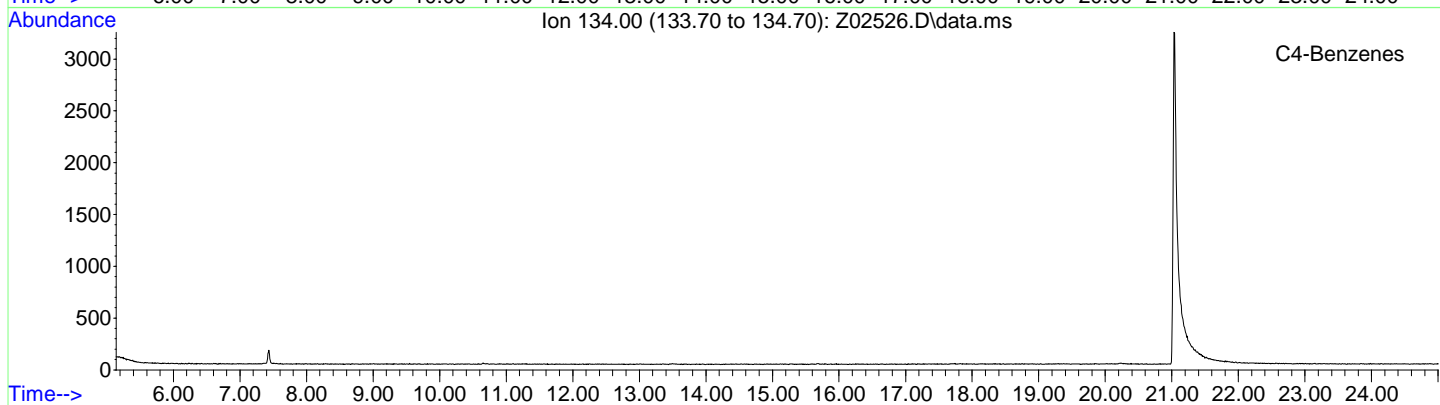
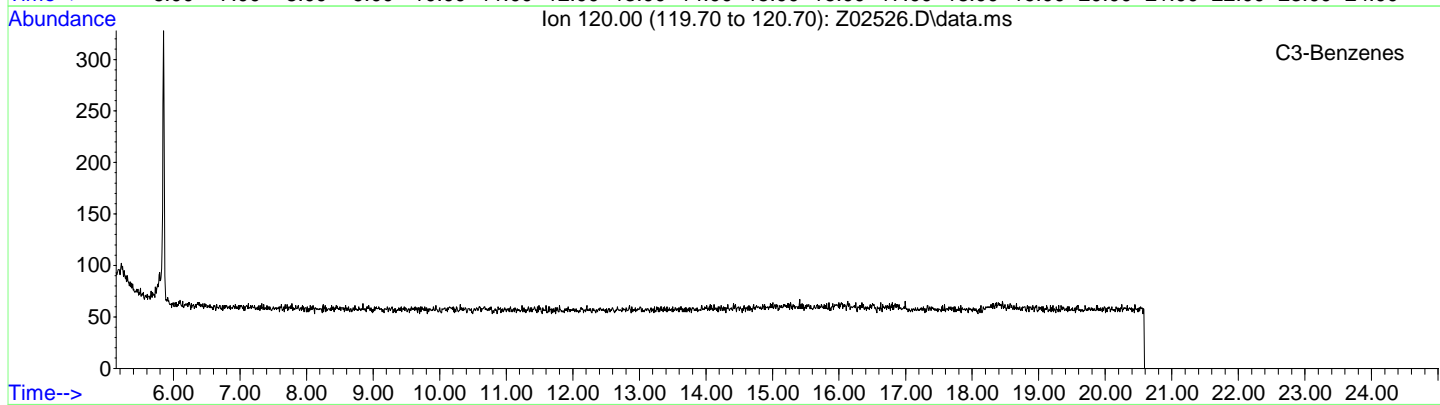
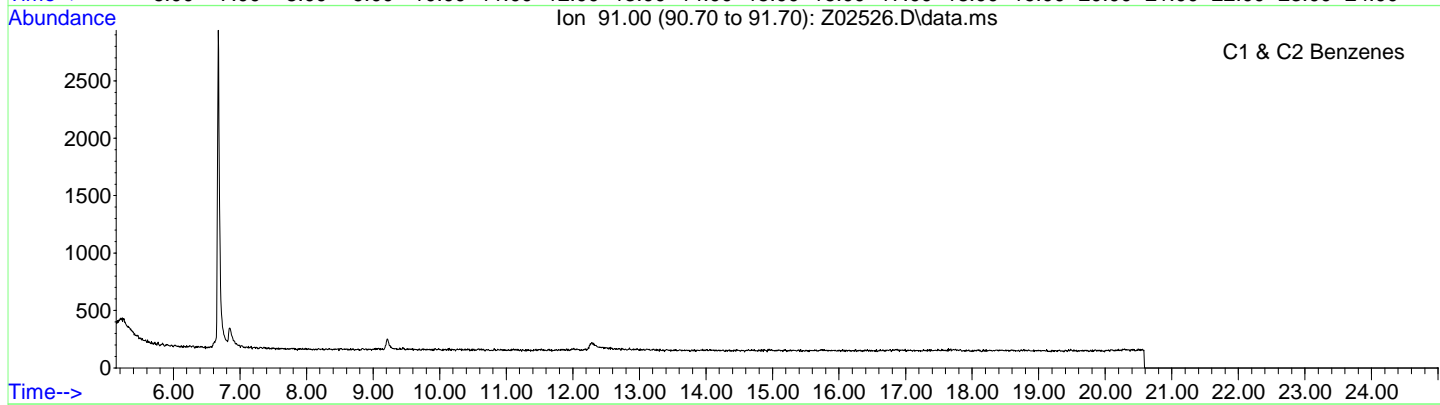
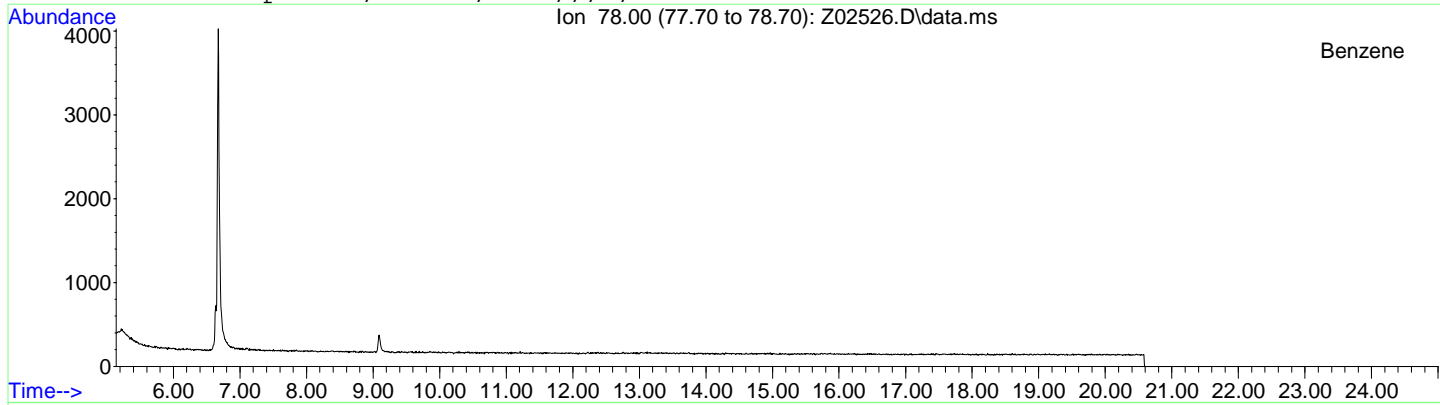
File: Z:\2\data\Z140605\Z02557.D
Date Acquired: 6 Jun 2014 9:51 pm
Method File: ZAPHSIM-MTBE.M
Sample Name: mc30898-4
Misc Info: op38385,msz101,35,,2,1



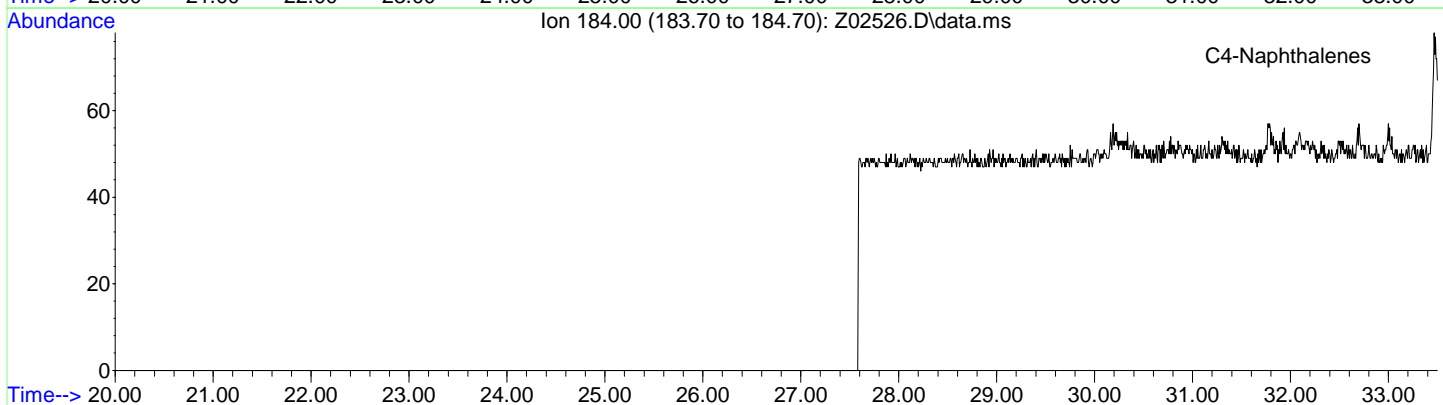
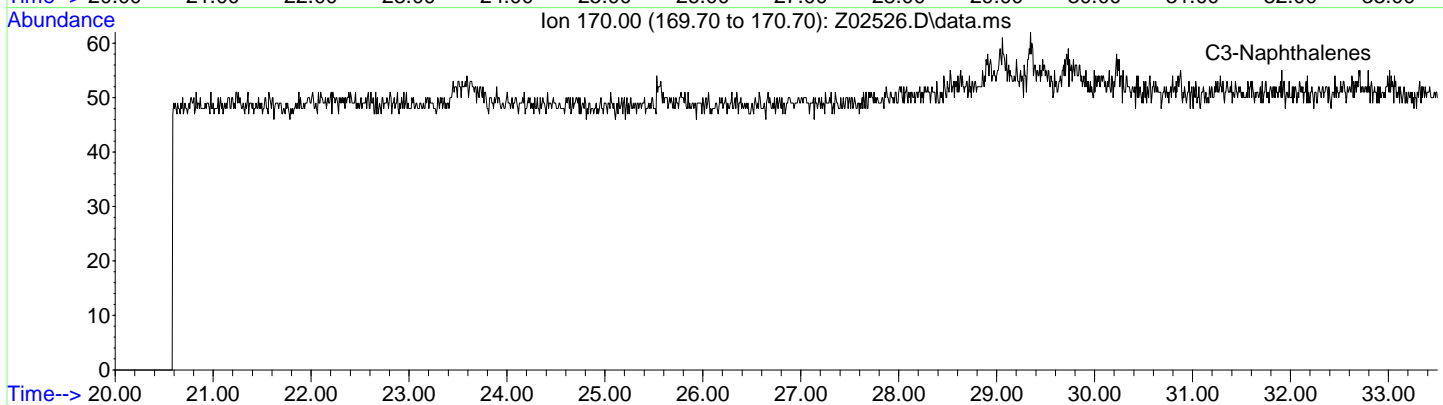
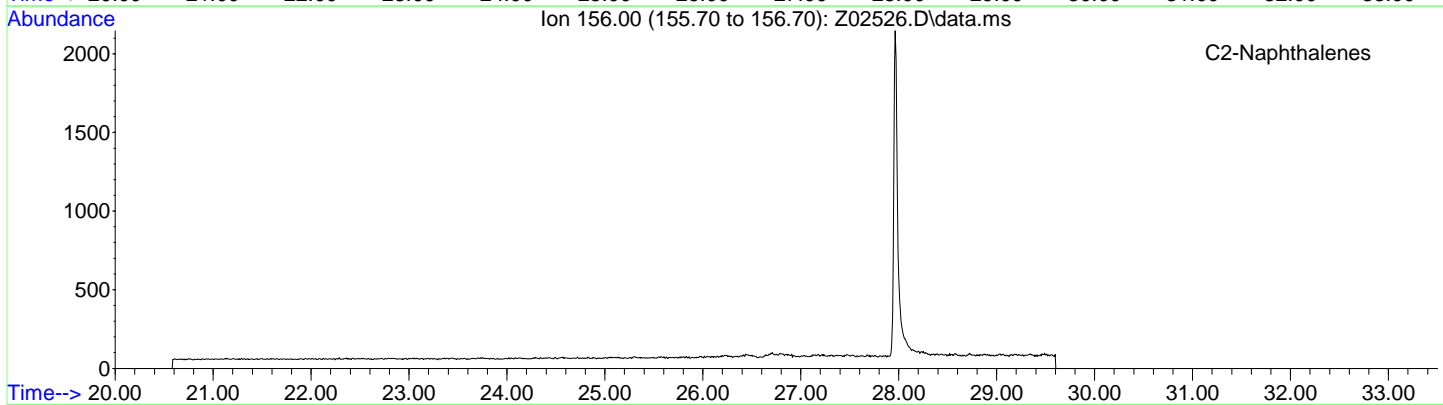
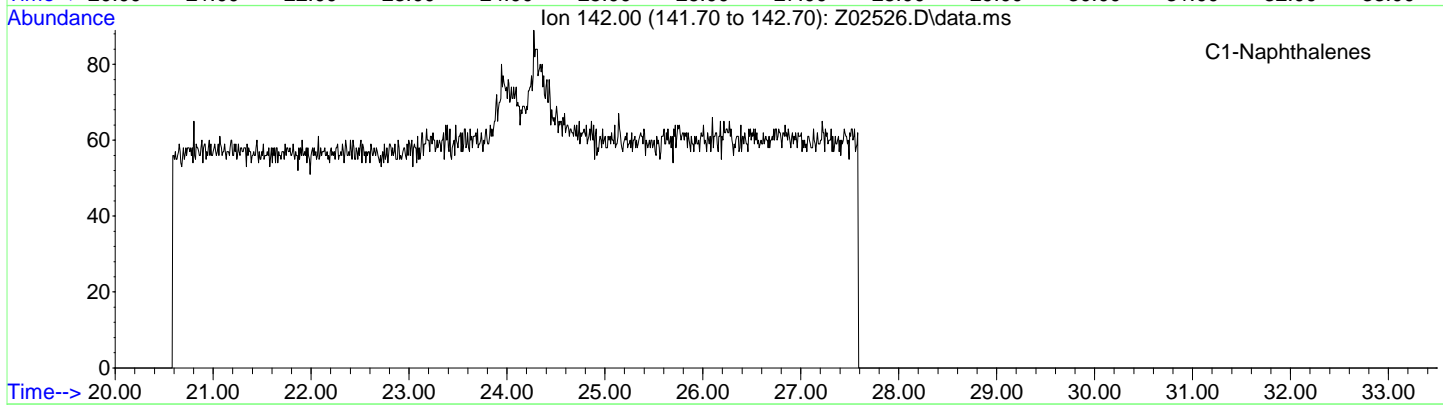
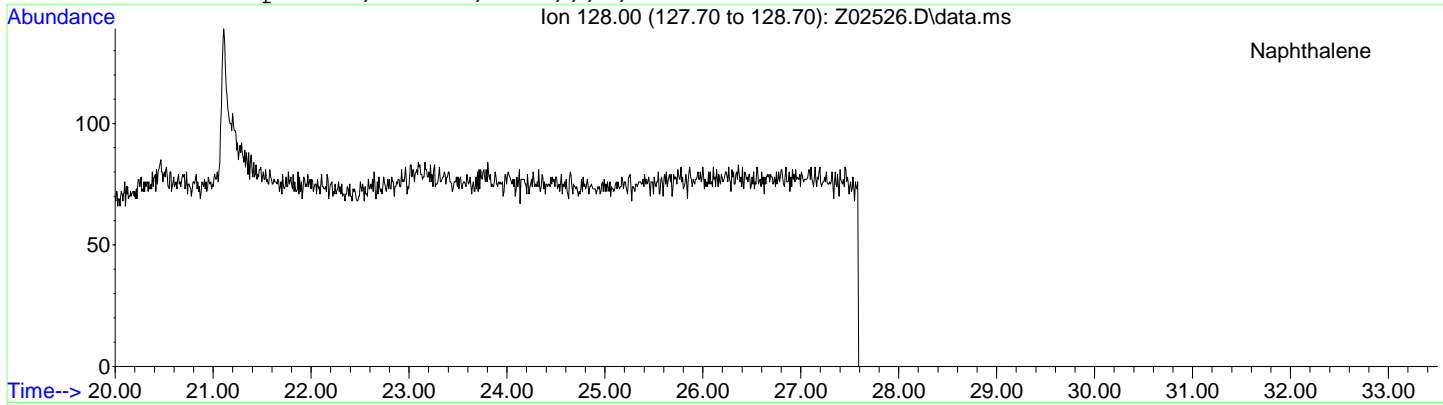
File: Z:\2\data\Z140604\Z02526.D
Date Acquired: 5 Jun 2014 2:07 am
Sample Name: op38366-mb, Method Blank
Misc Info: op38366,msz100,5.00,,,2,1



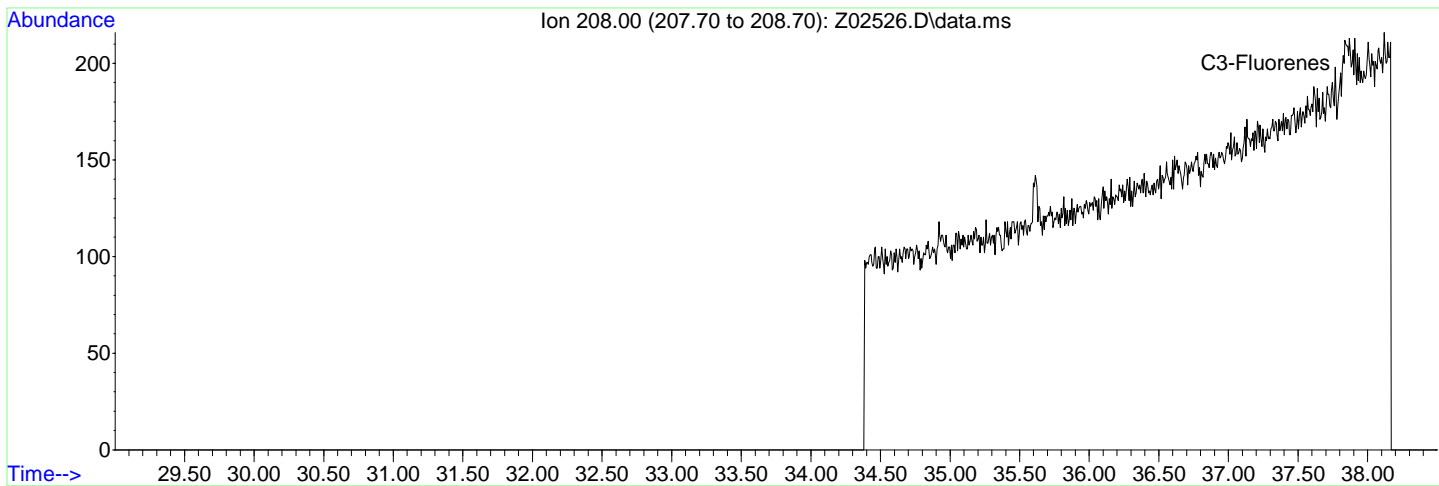
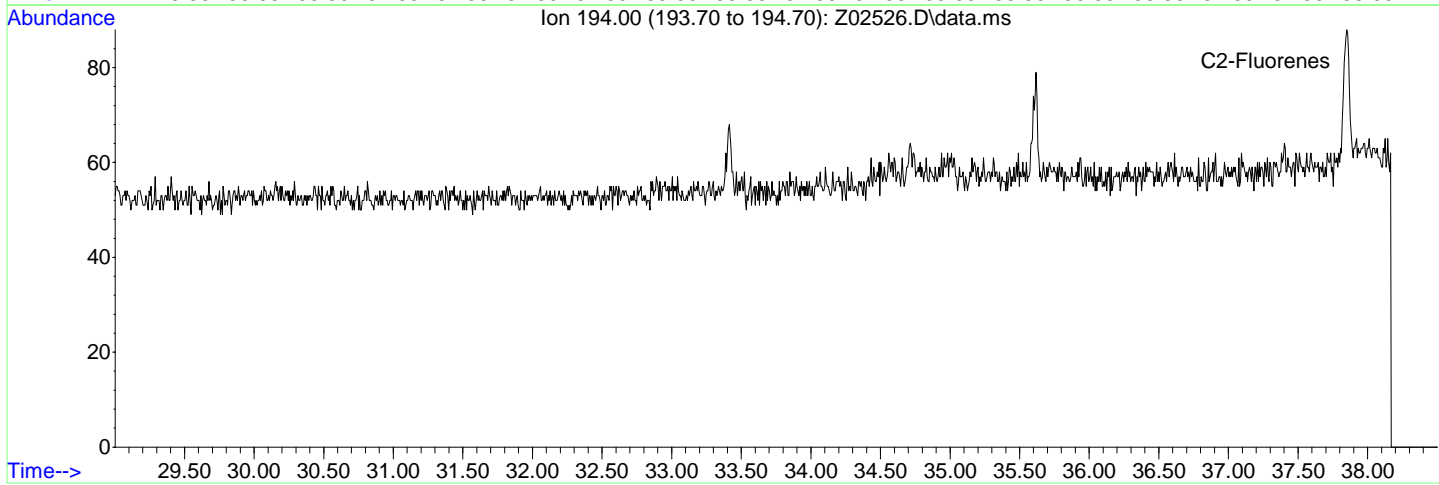
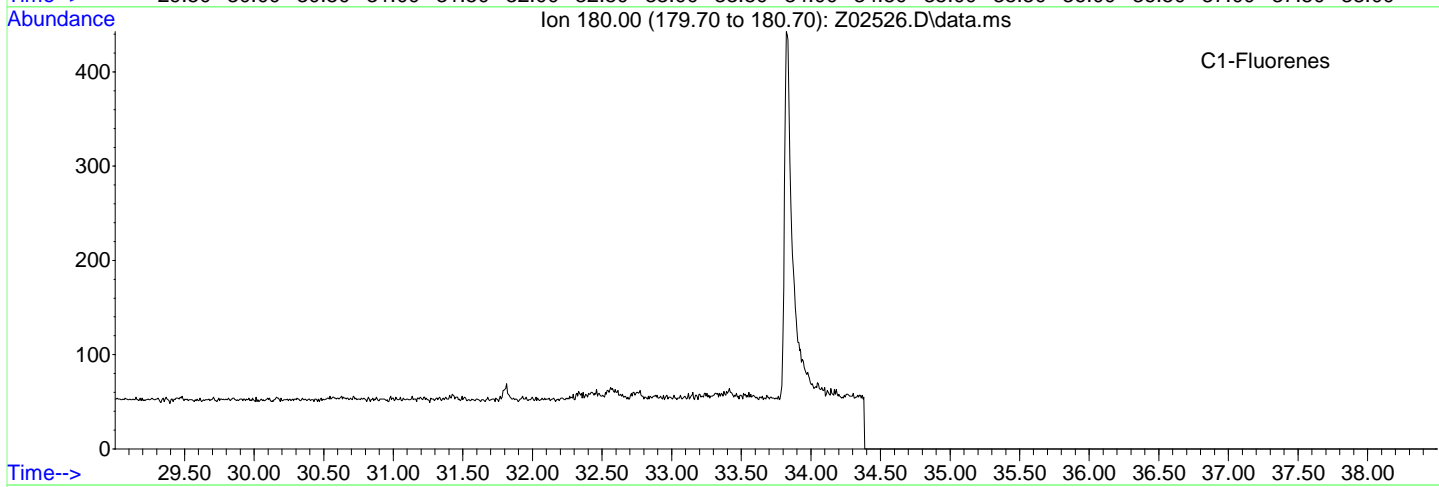
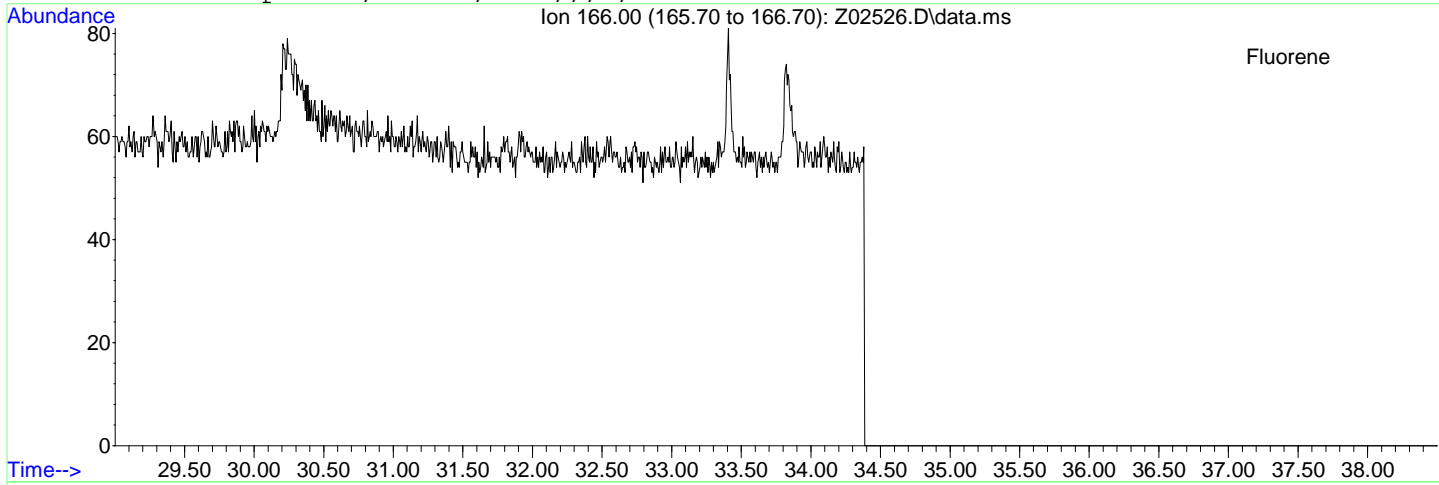
File: Z:\2\data\Z140604\Z02526.D
 Date Acquired: 5 Jun 2014 2:07 am
 Sample Name: op38366-mb, Method Blank
 Misc Info: op38366,msz100,5.00,,,2,1



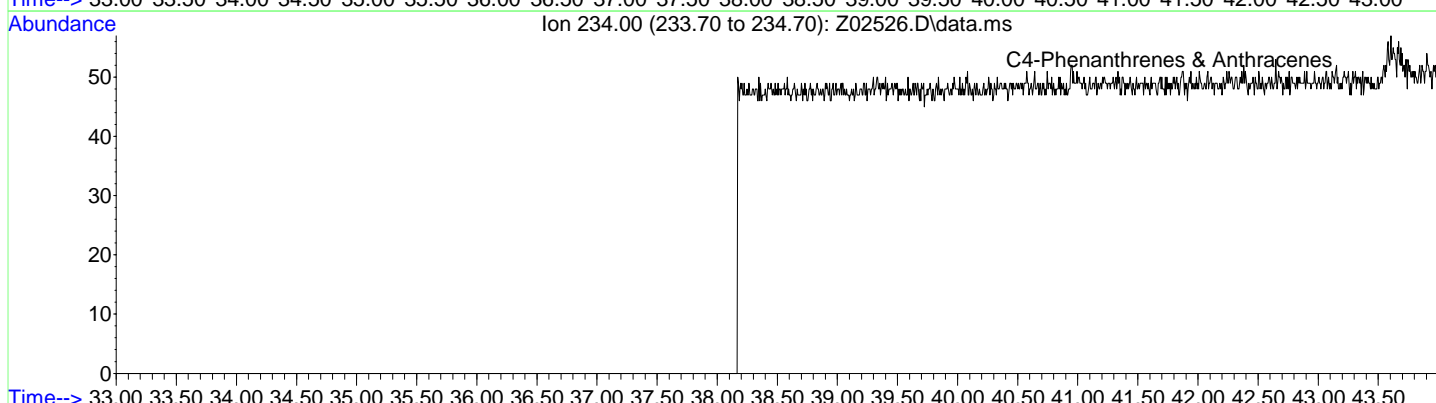
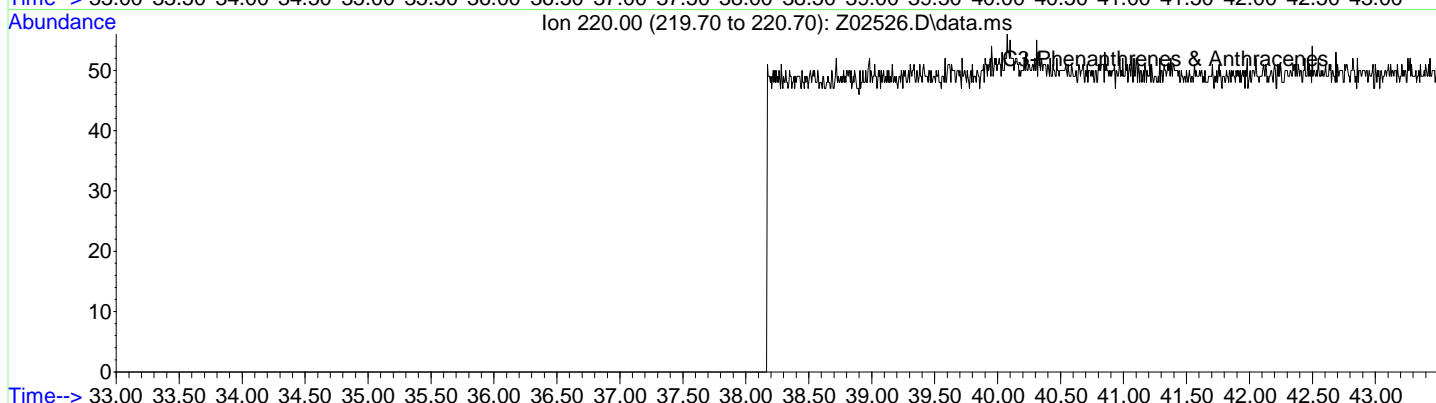
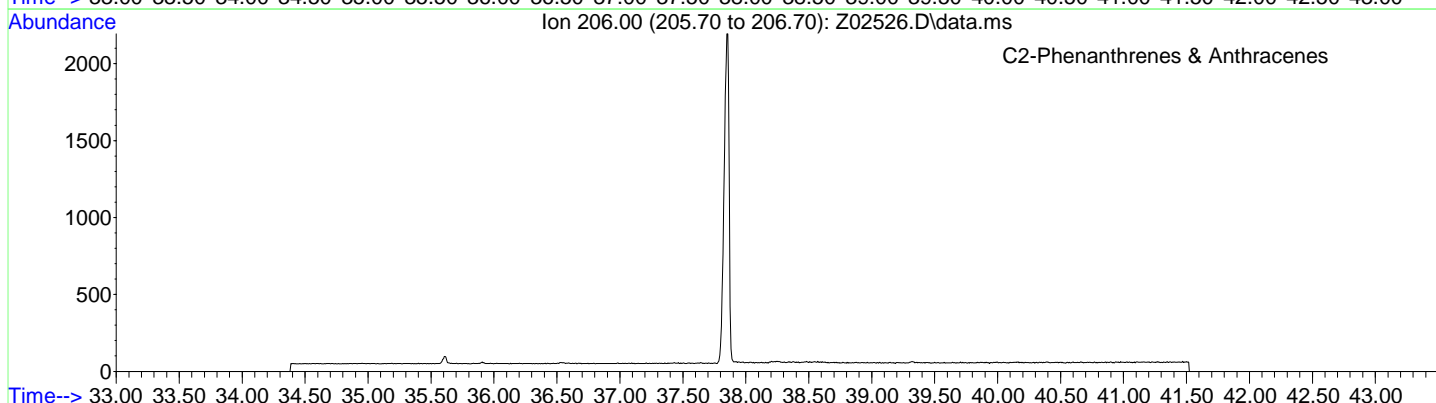
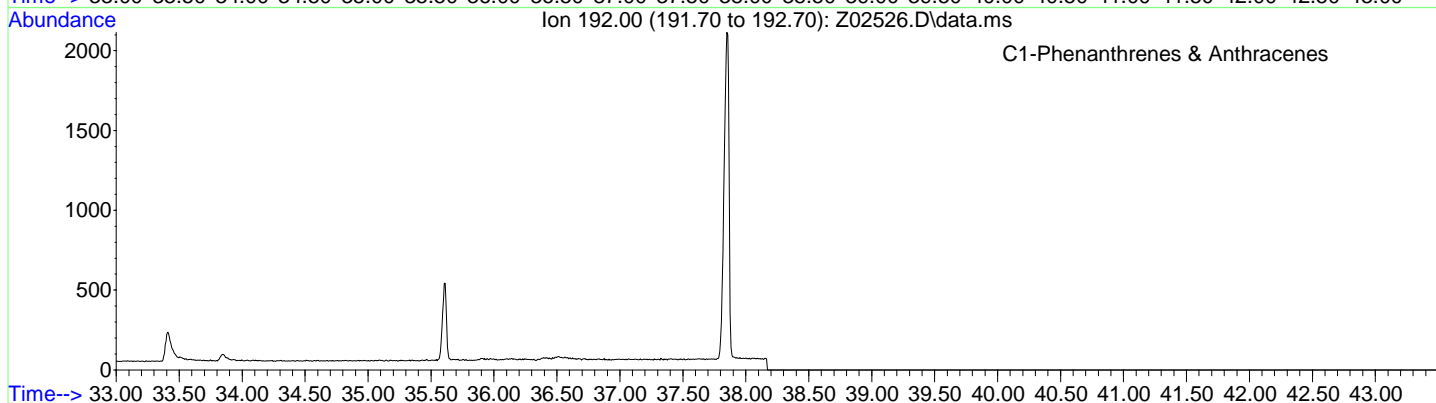
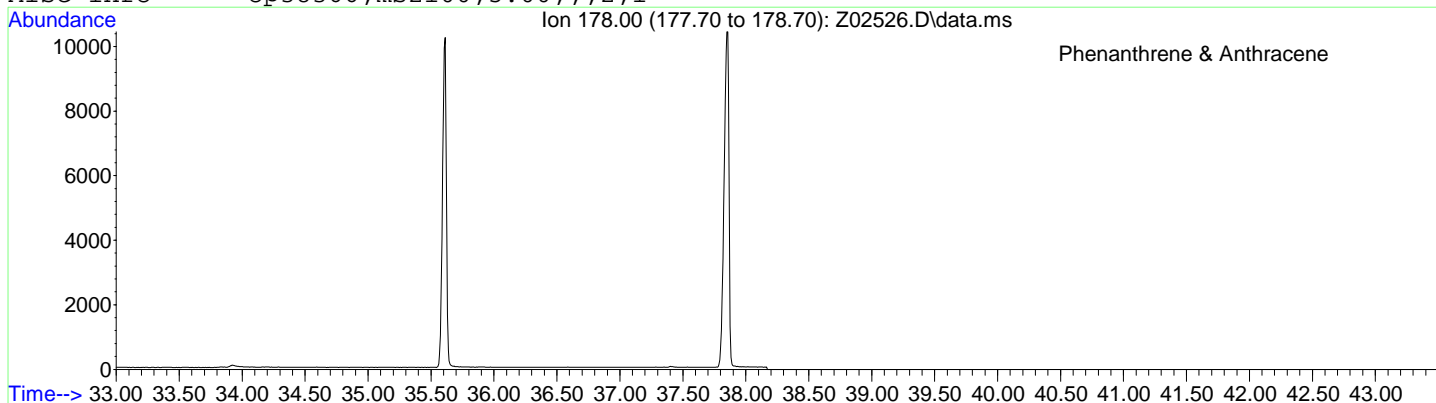
File: Z:\2\data\Z140604\Z02526.D
 Date Acquired: 5 Jun 2014 2:07 am
 Sample Name: op38366-mb, Method Blank
 Misc Info: op38366,msz100,5.00,,,2,1



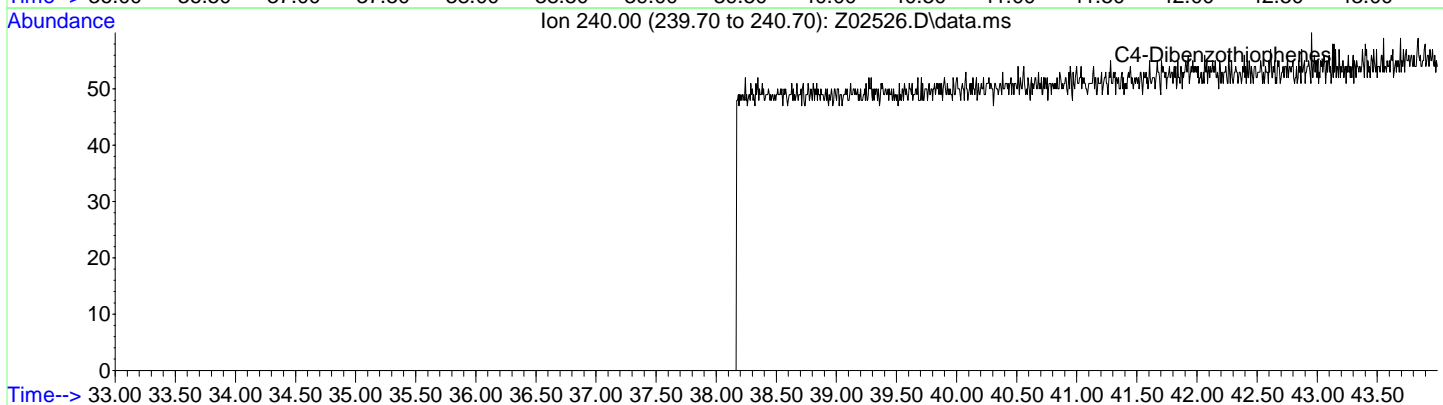
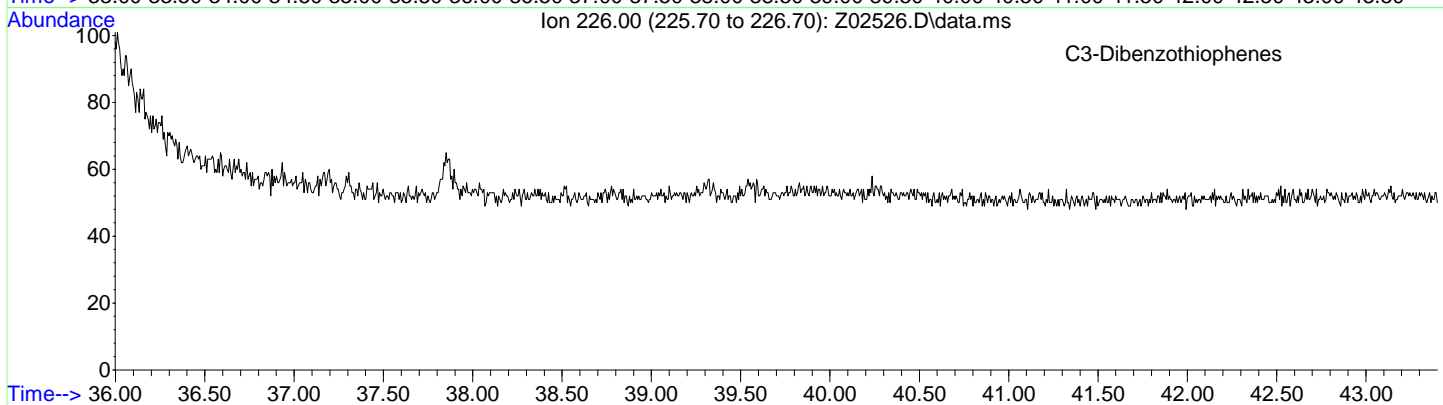
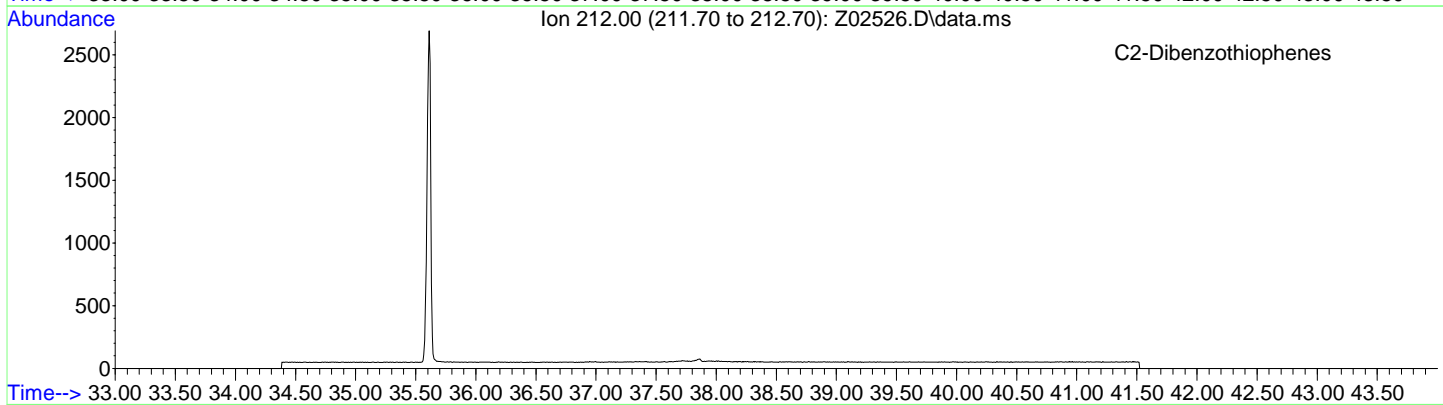
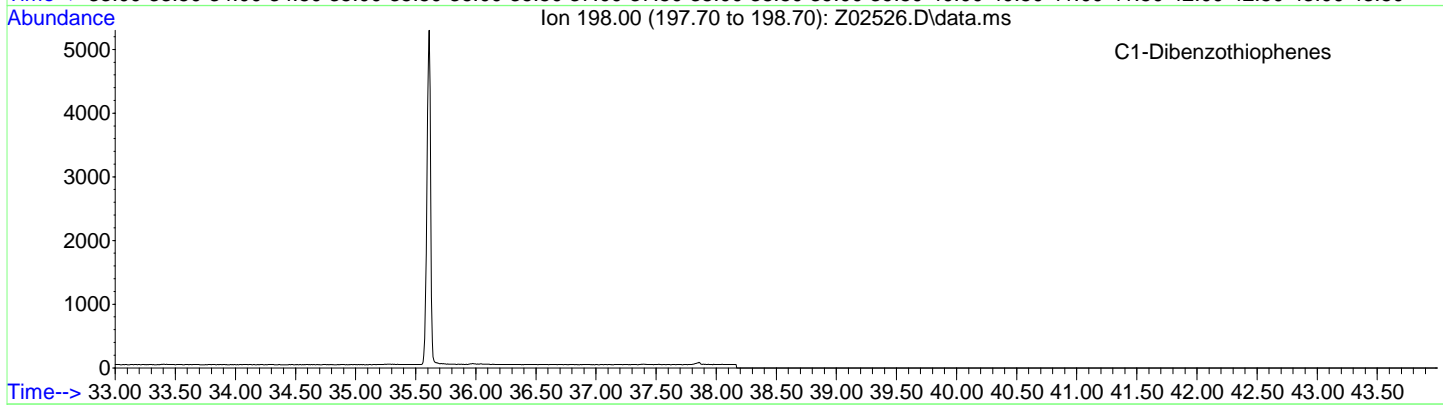
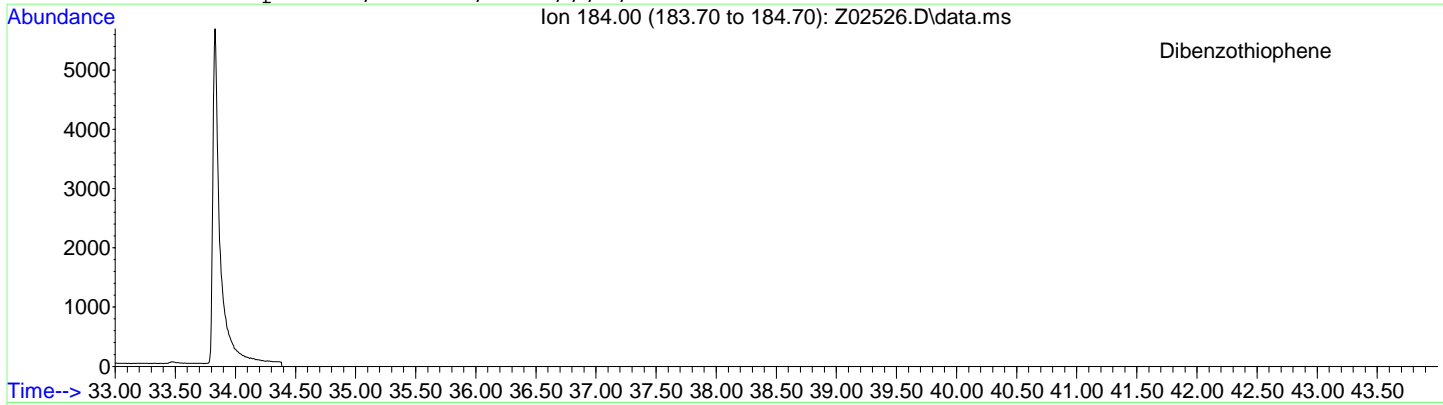
File: Z:\2\data\Z140604\Z02526.D
 Date Acquired: 5 Jun 2014 2:07 am
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: op38366-mb, Method Blank
 Misc Info: op38366,msz100,5.00,,,2,1



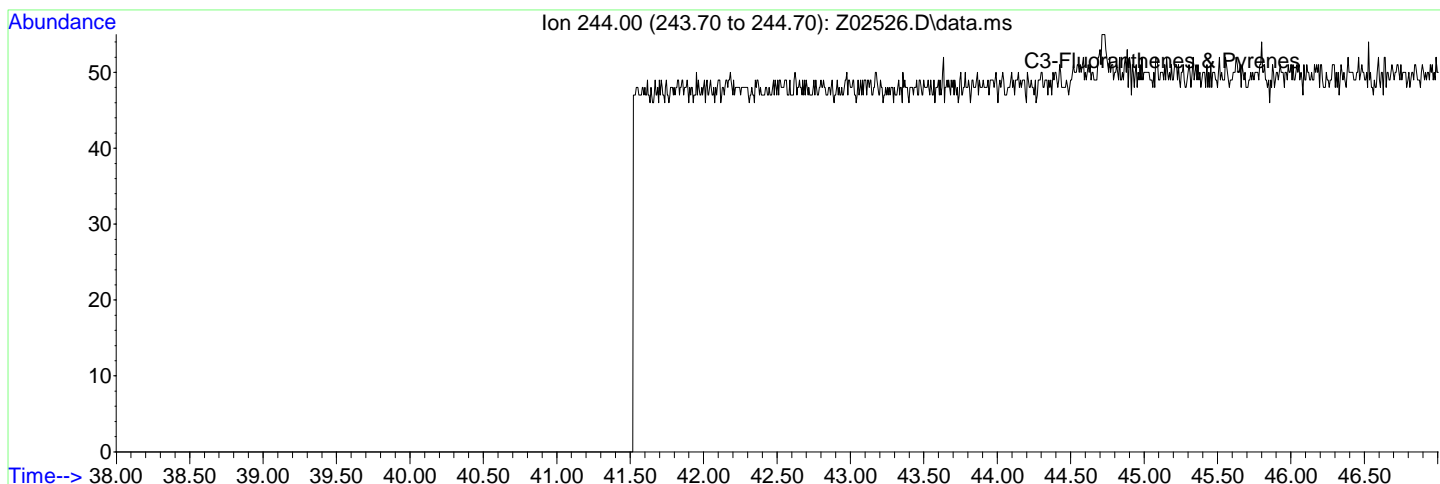
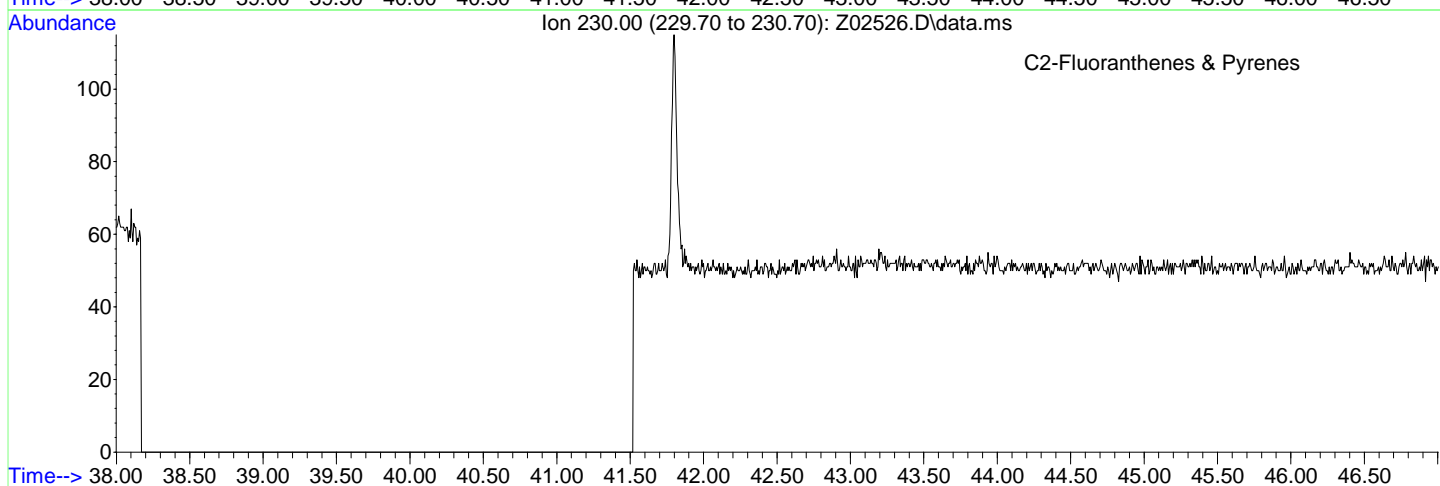
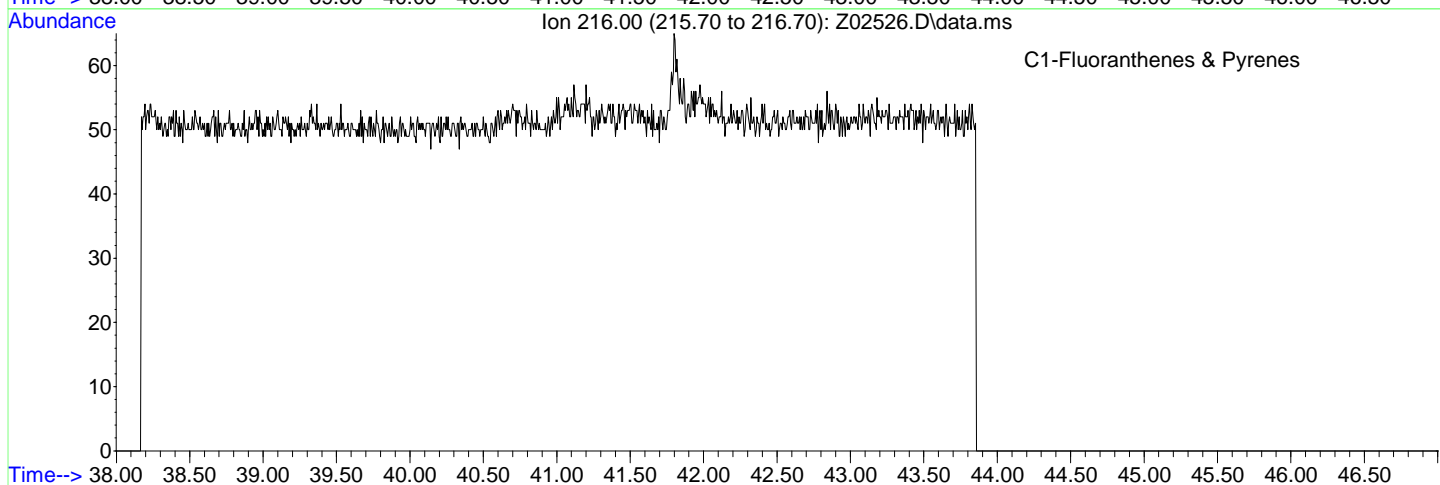
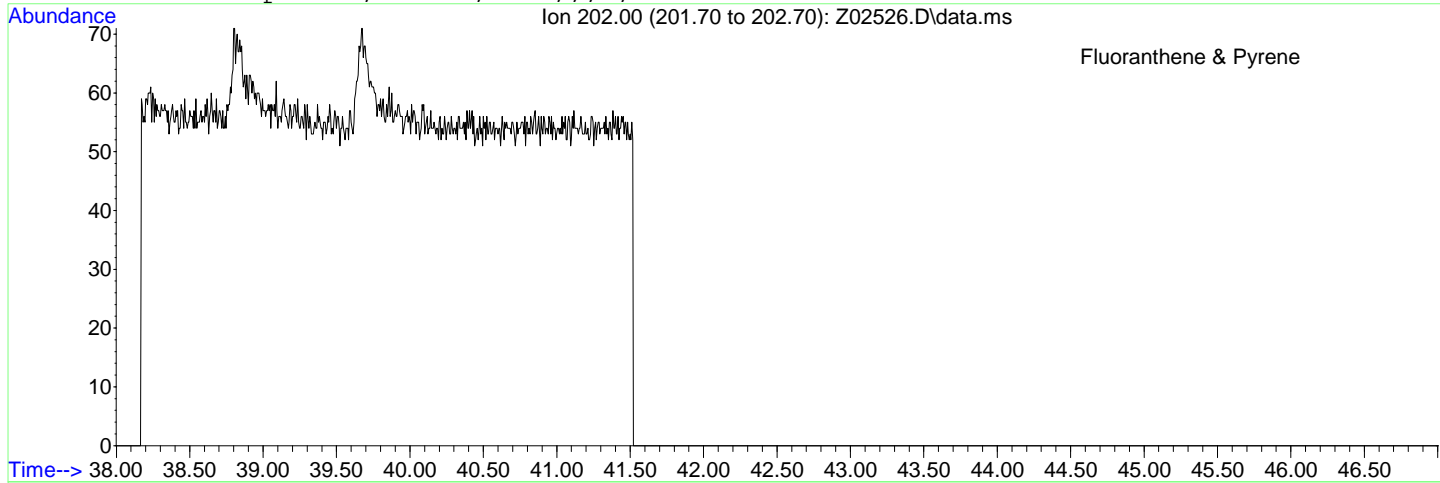
File: Z:\2\data\Z140604\Z02526.D
Date Acquired: 5 Jun 2014 2:07 am
Sample Name: op38366-mb, Method Blank
Misc Info: op38366,msz100,5.00,,,2,1



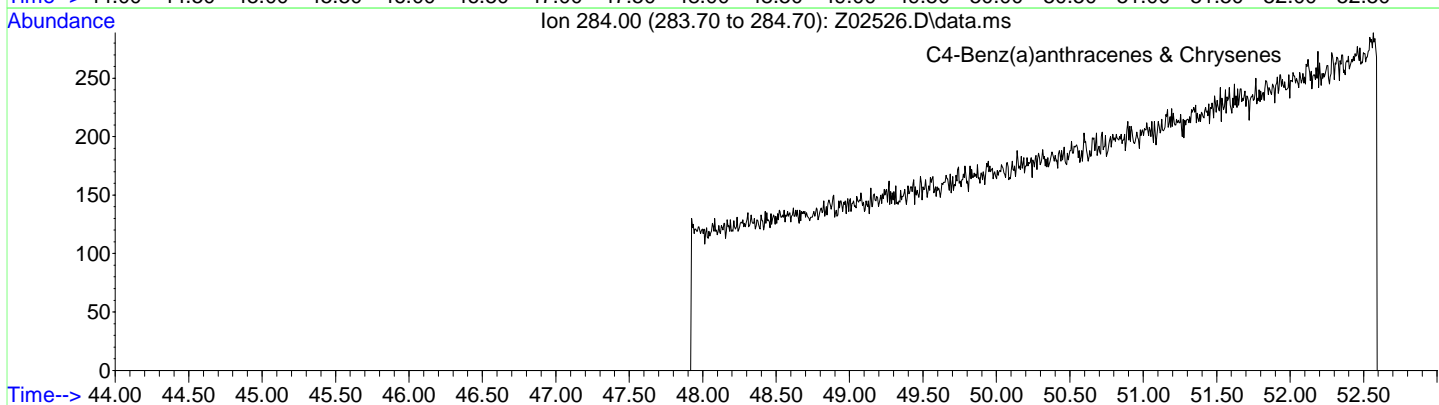
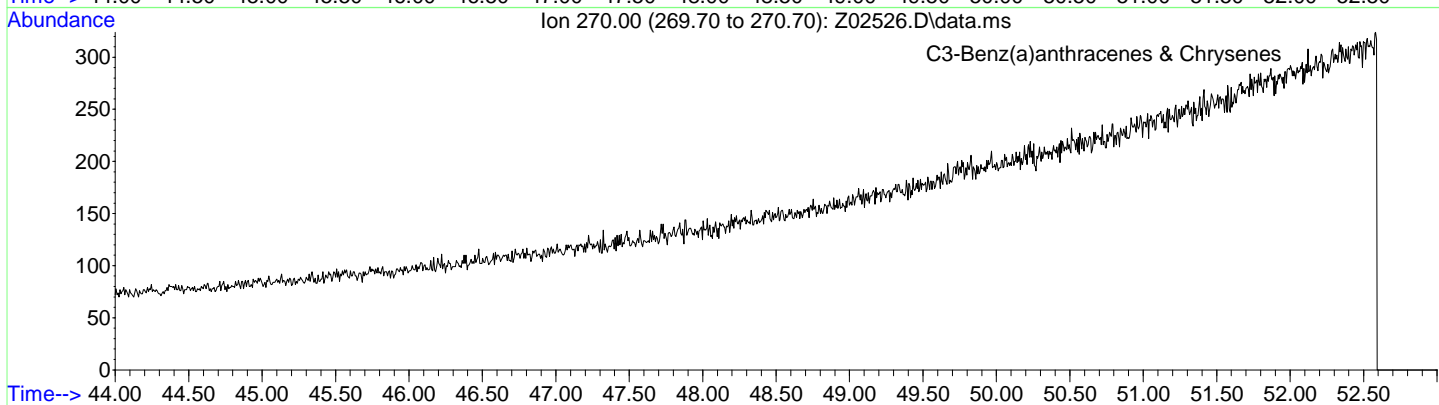
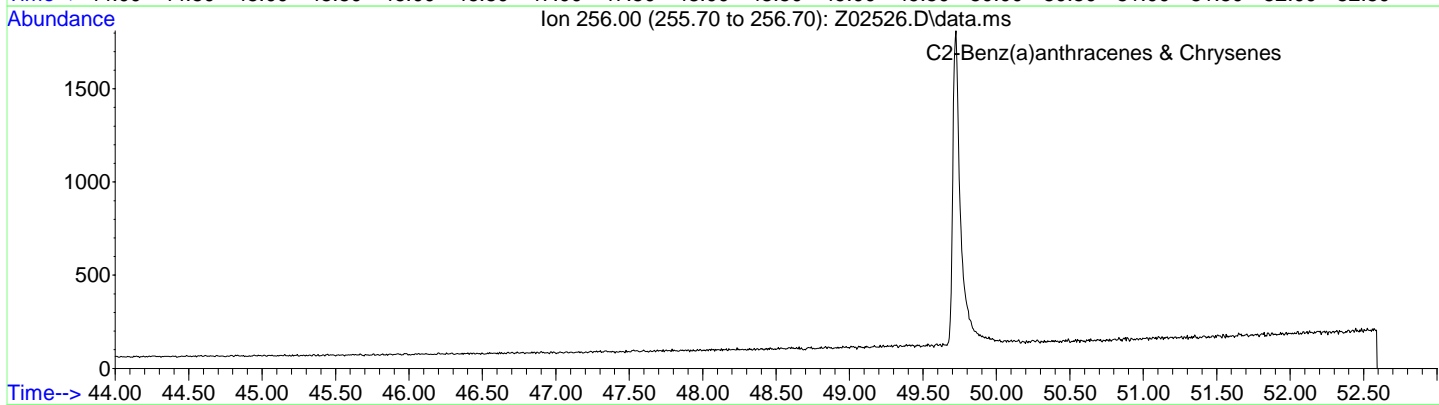
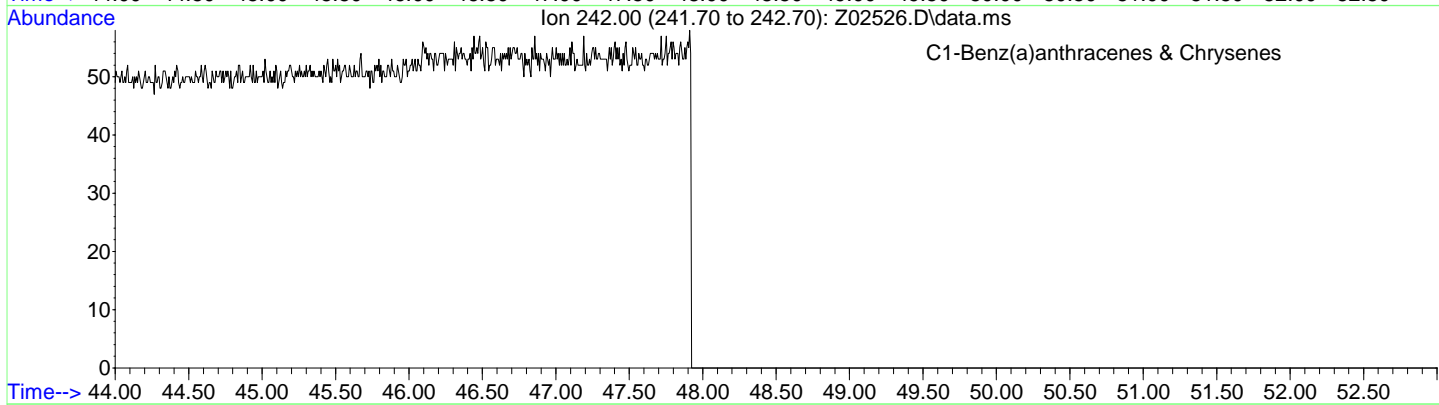
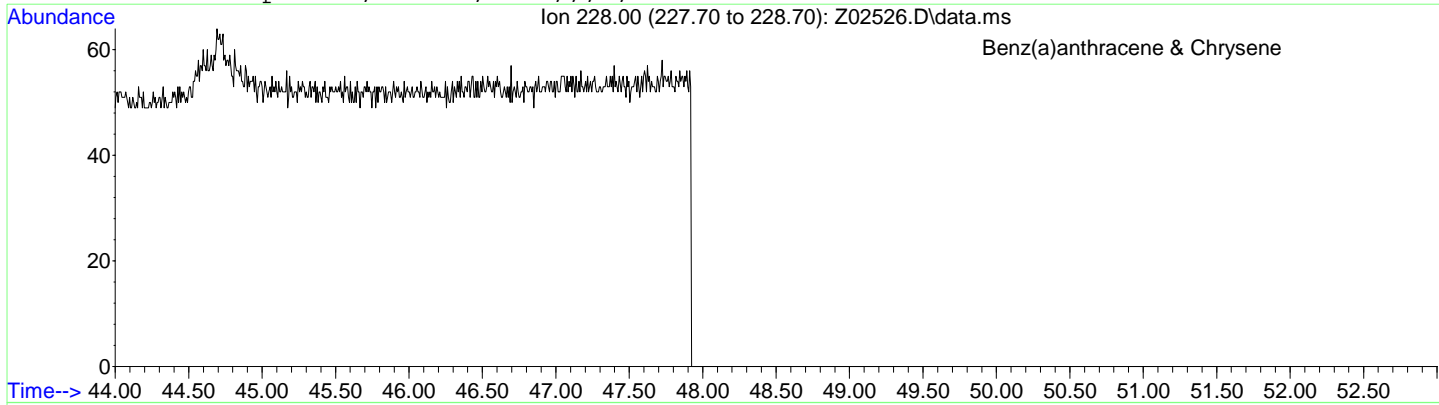
File: Z:\2\data\Z140604\Z02526.D
 Date Acquired: 5 Jun 2014 2:07 am
 Sample Name: op38366-mb, Method Blank
 Misc Info: op38366,msz100,5.00,,,2,1



File: Z:\2\data\Z140604\Z02526.D
 Date Acquired: 5 Jun 2014 2:07 am
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: op38366-mb, Method Blank
 Misc Info: op38366,msz100,5.00,,,2,1



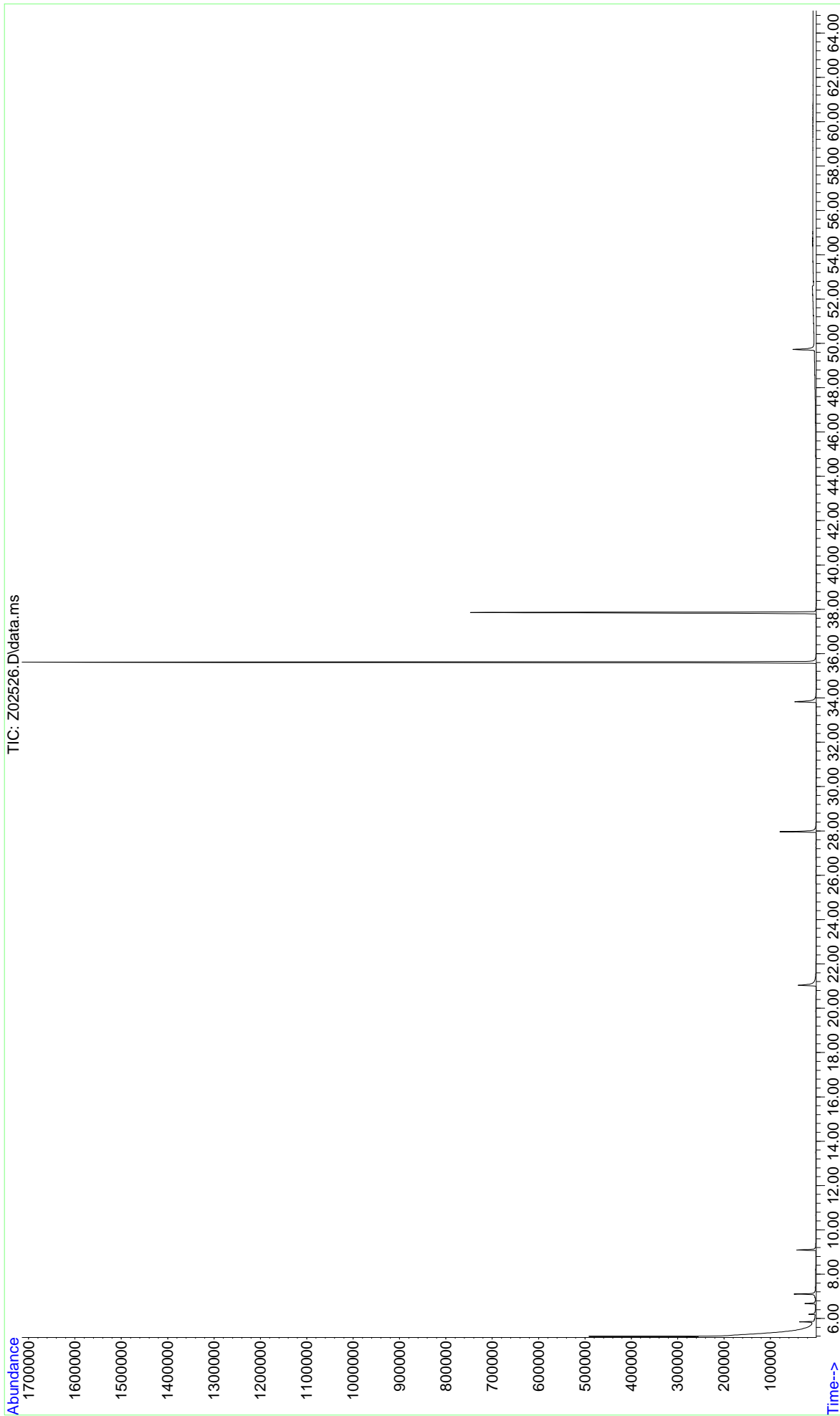
File: Z:\2\data\Z140604\Z02526.D
Date Acquired: 5 Jun 2014 2:07 am
Sample Name: op38366-mb, Method Blank
Misc Info: op38366,msz100,5.00,,,2,1



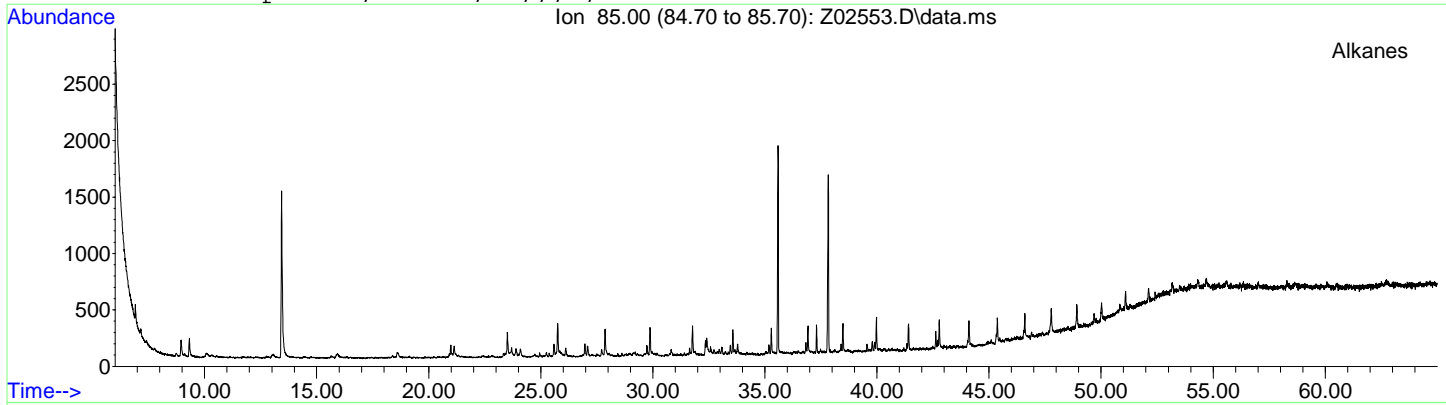
ACCUTEST

GC/MS TOTAL ION CHROMATOGRAM

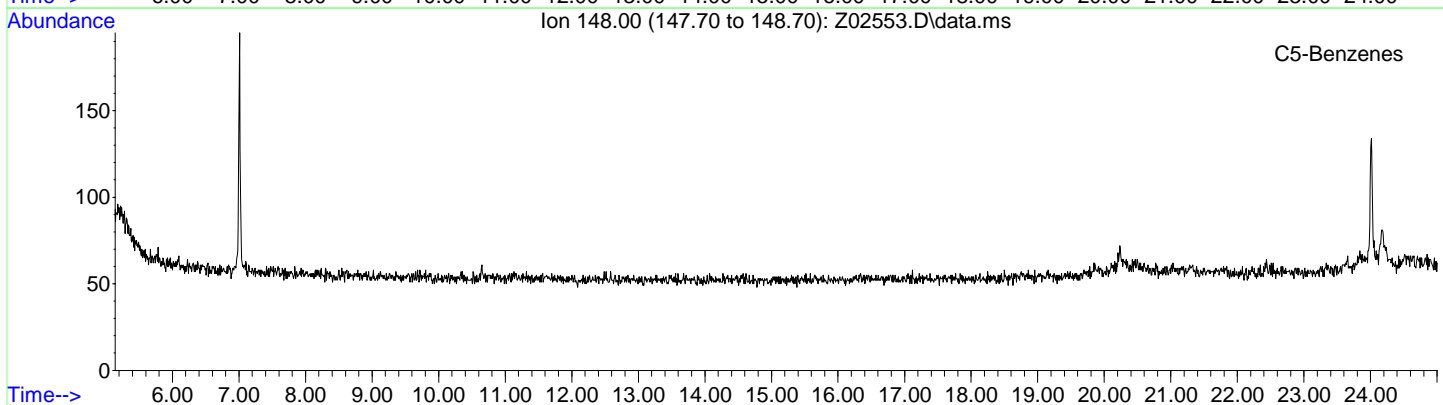
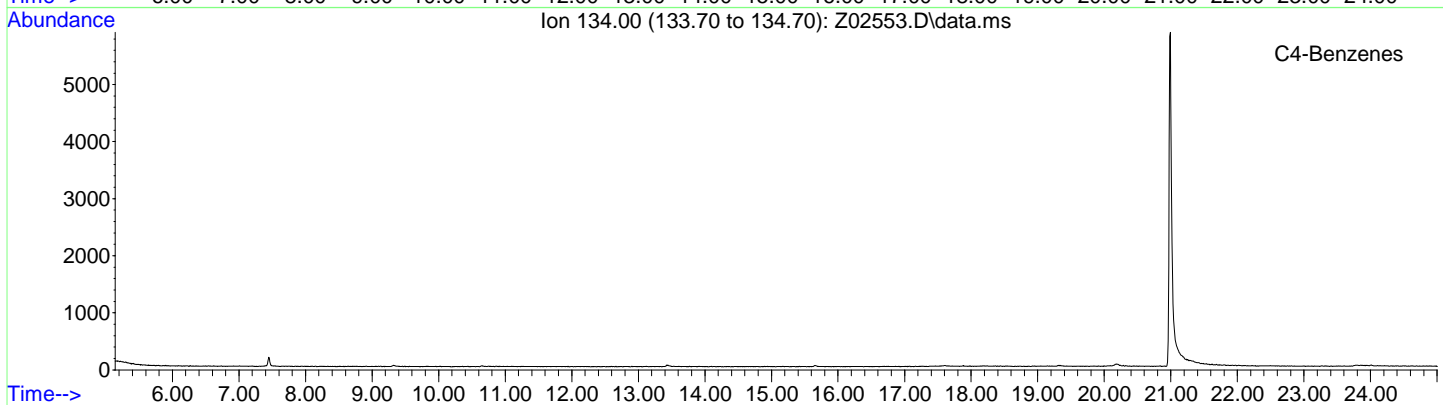
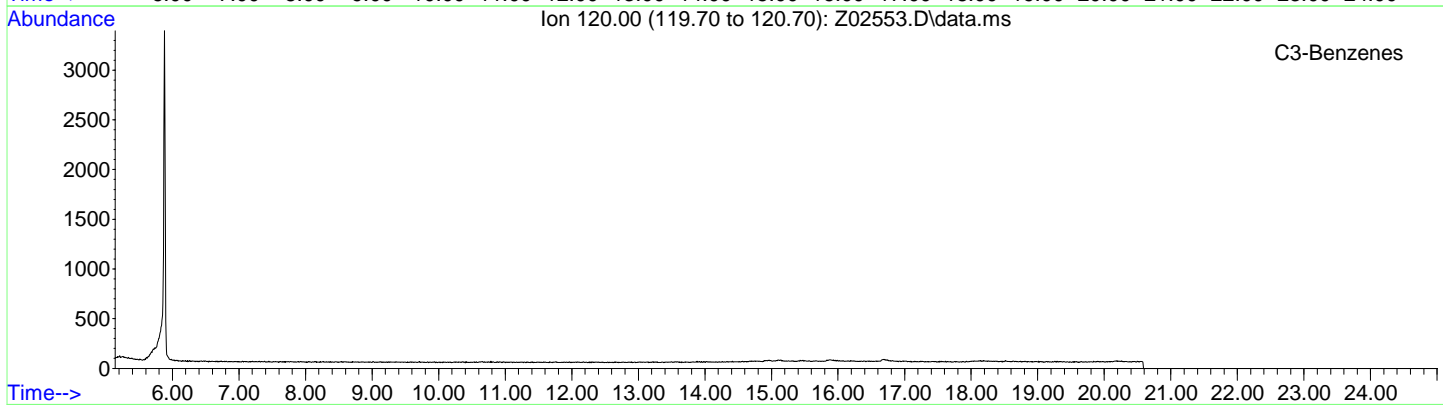
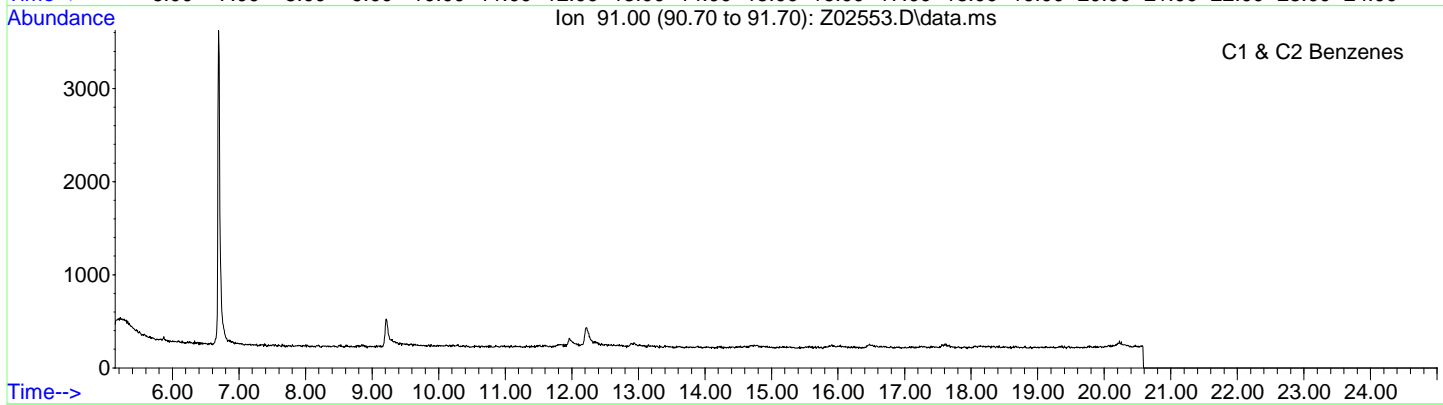
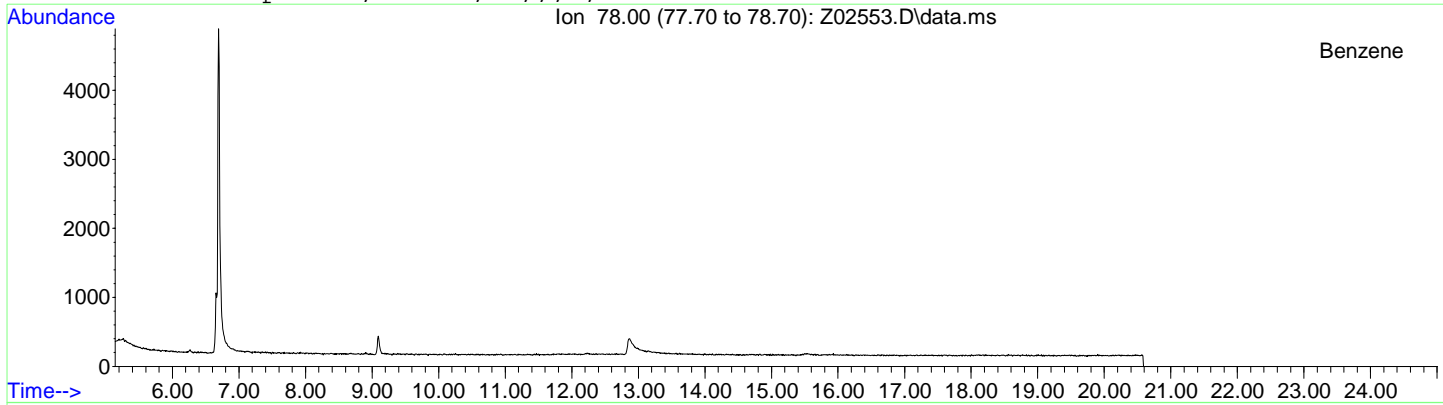
File: Z:\2\data\Z140604\Z02526.D
Date Acquired: 5 Jun 2014 2:07 am
Method File: ZAPHSIM-MTBE.M
Sample Name: op38366-mb, Method Blank
Misc Info: op38366,msz100,5.00,,,2,1



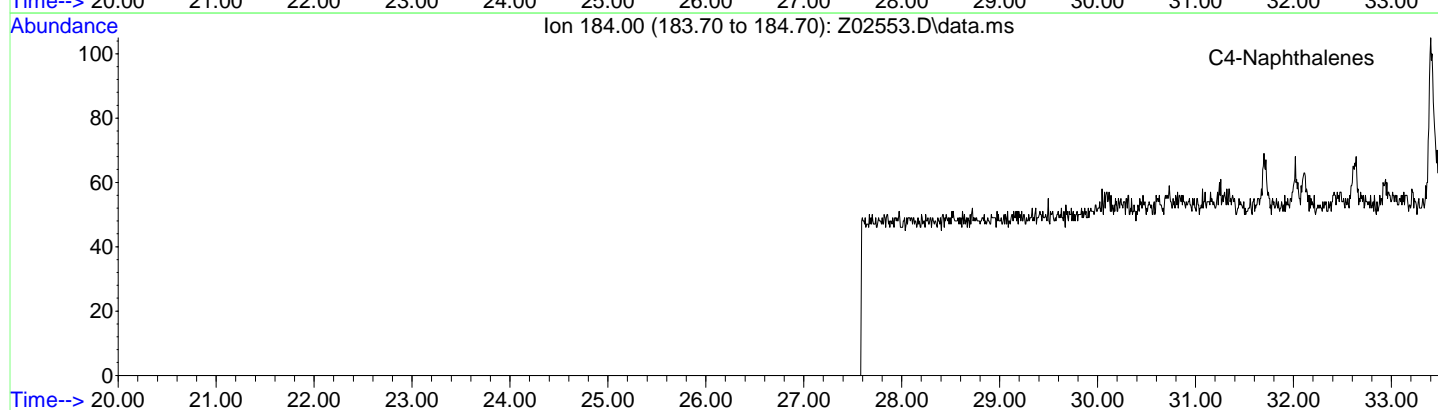
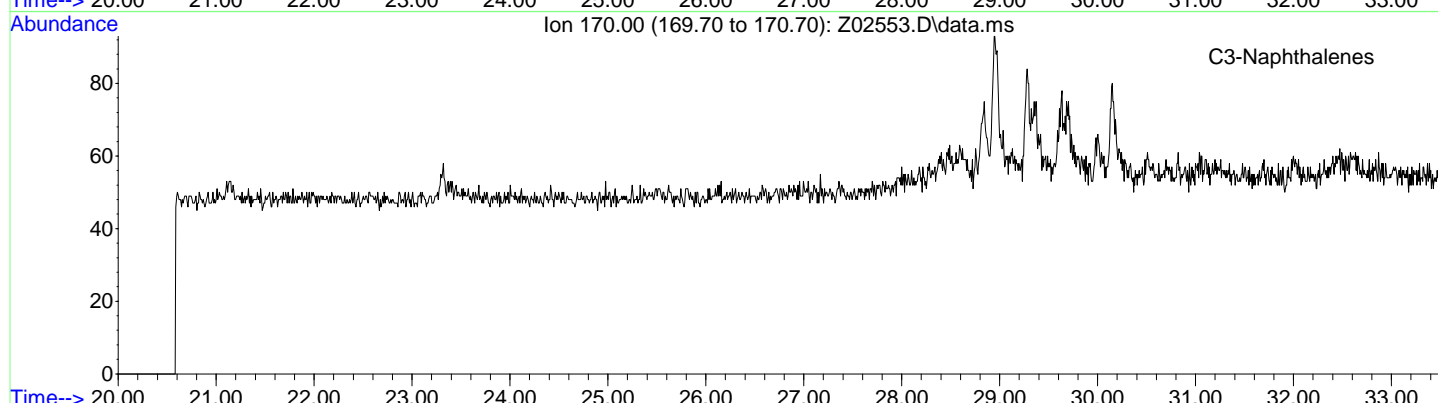
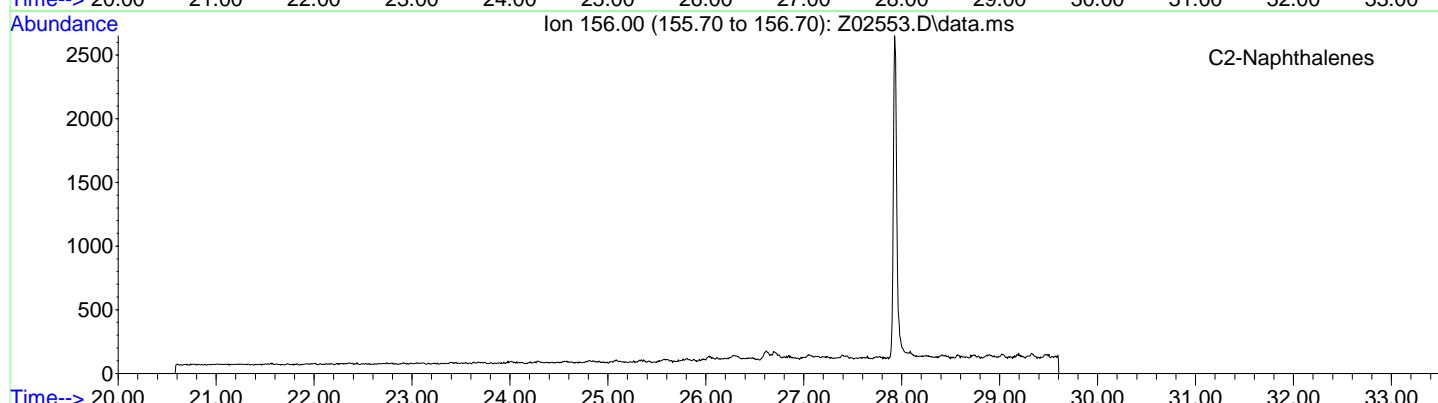
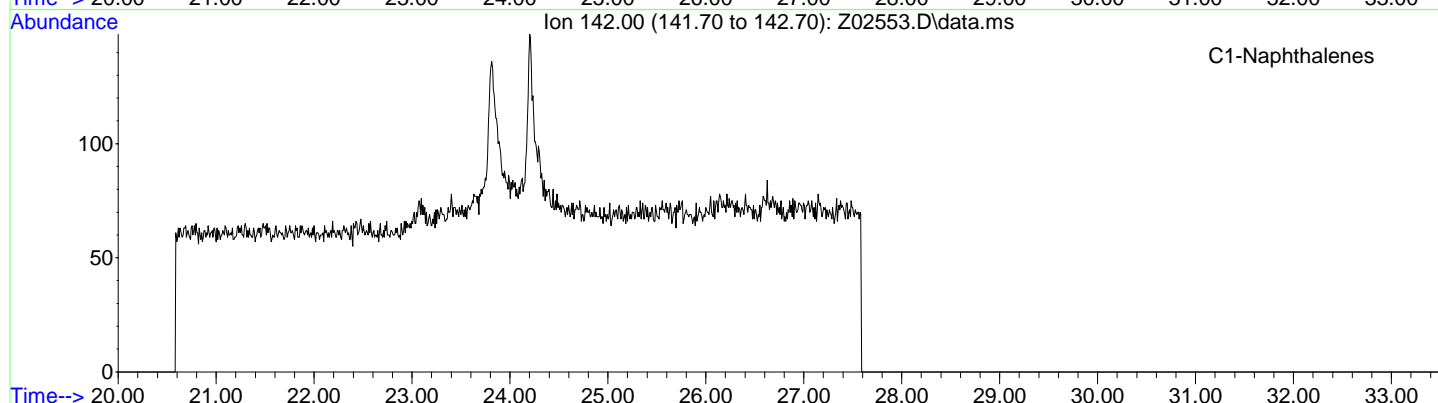
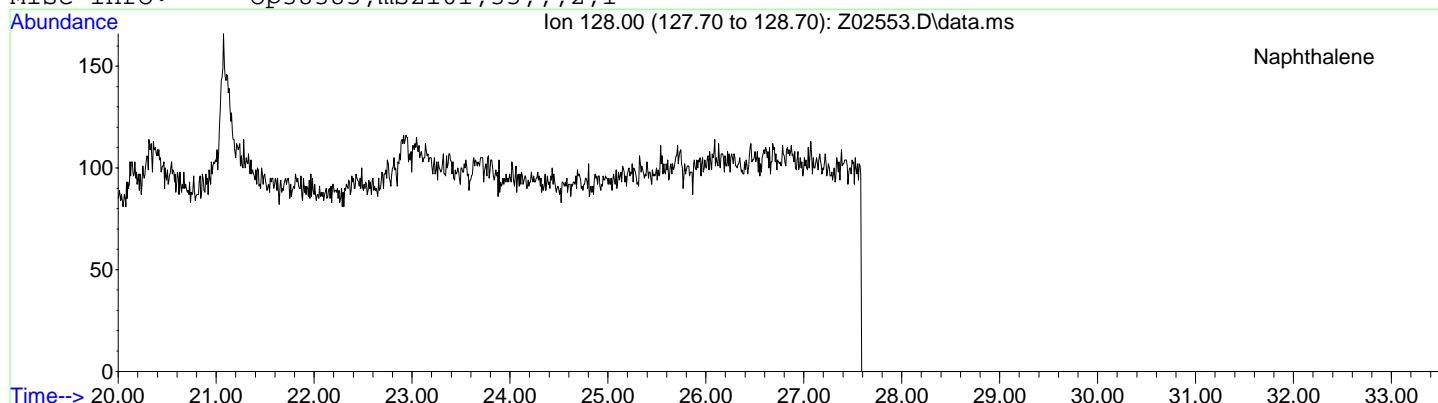
File: Z:\2\data\Z140605\Z02553.D
Date Acquired: 6 Jun 2014 4:38 pm
Sample Name: op38385-mb
Misc Info: op38385,msz101,35,,2,1



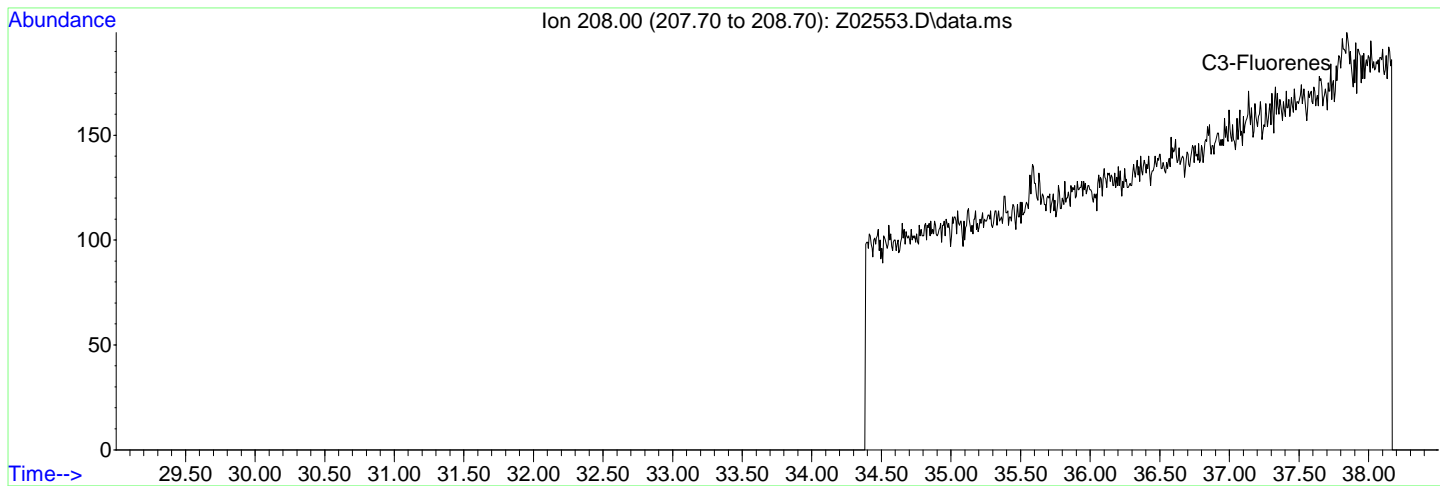
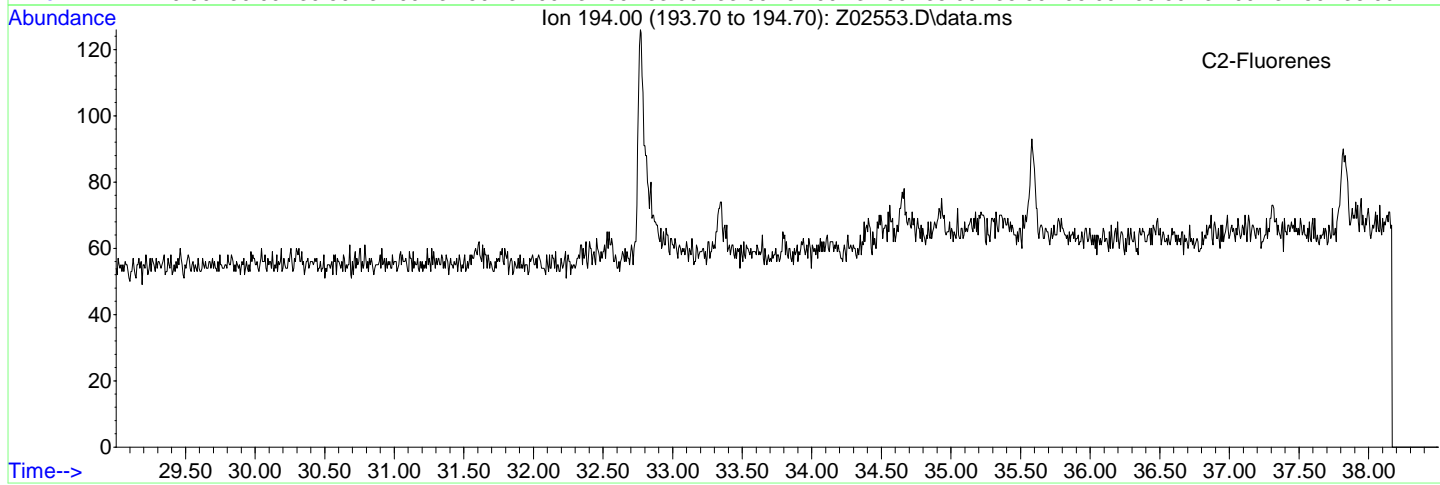
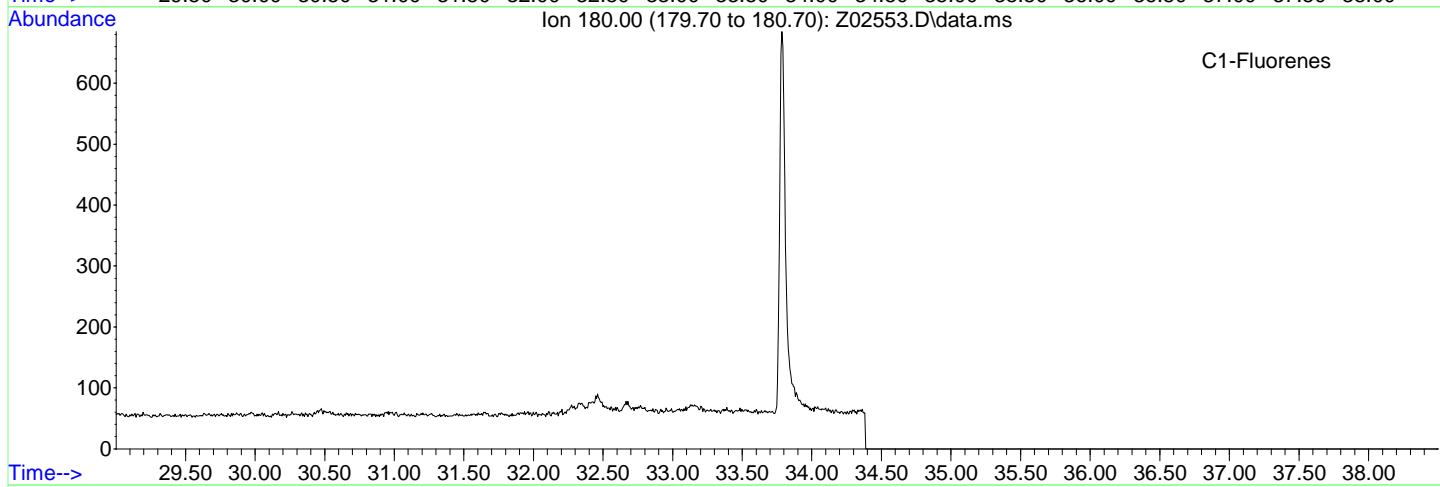
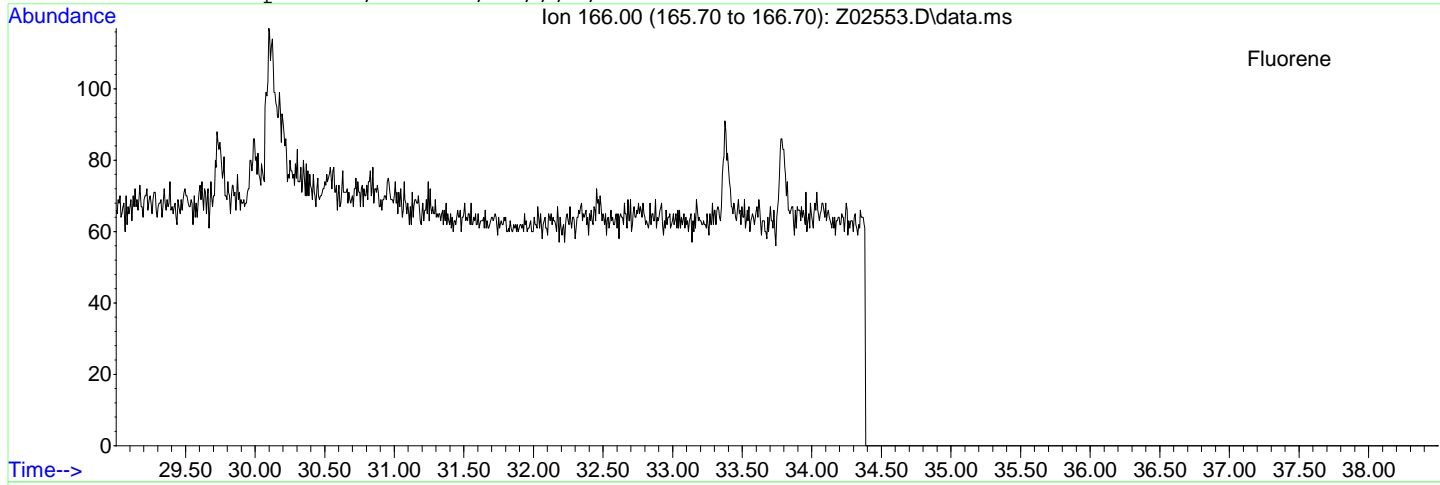
File: Z:\2\data\Z140605\Z02553.D
 Date Acquired: 6 Jun 2014 4:38 pm
 Sample Name: op38385-mb
 Misc Info: op38385,msz101,35,,,2,1



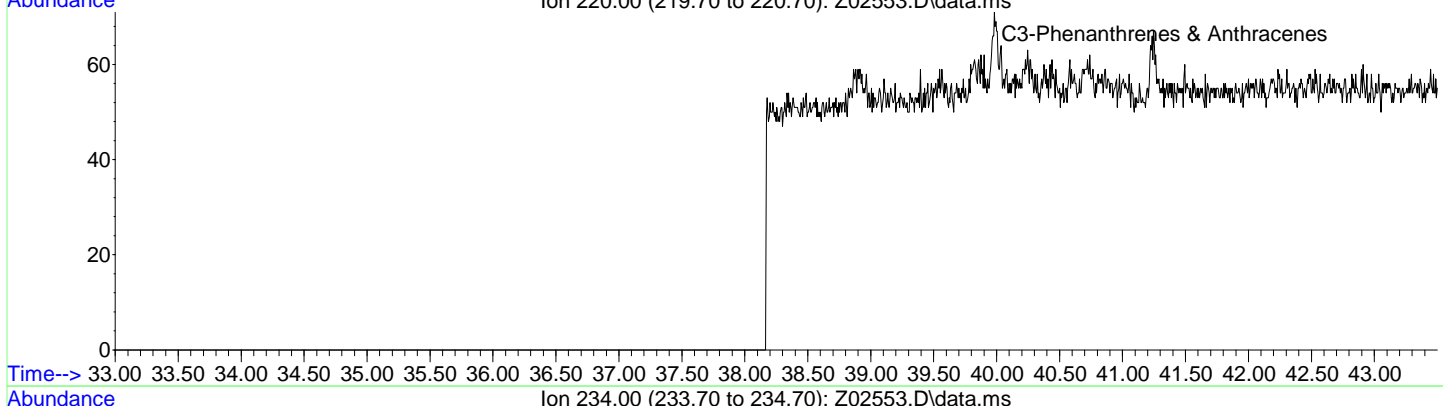
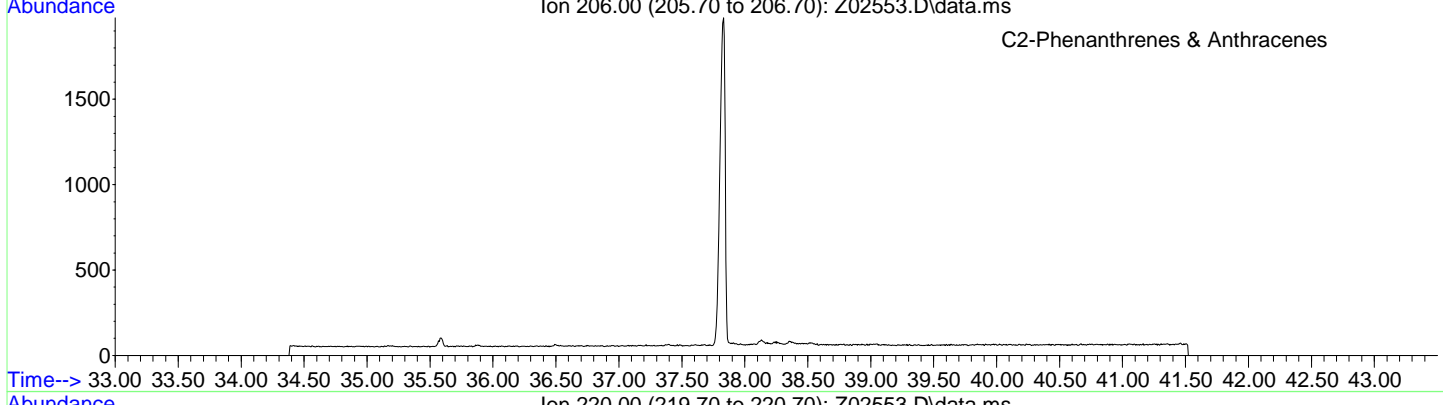
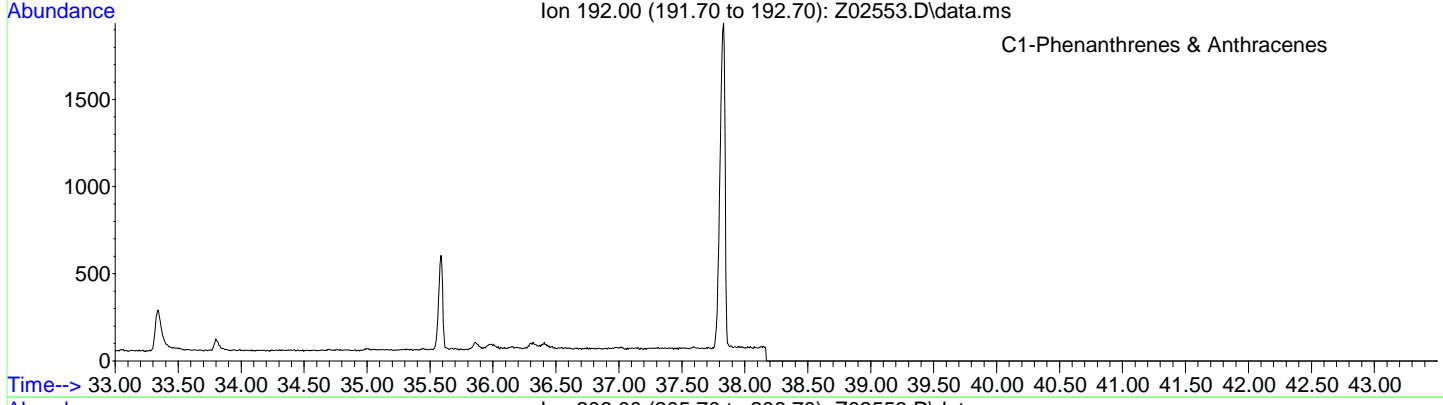
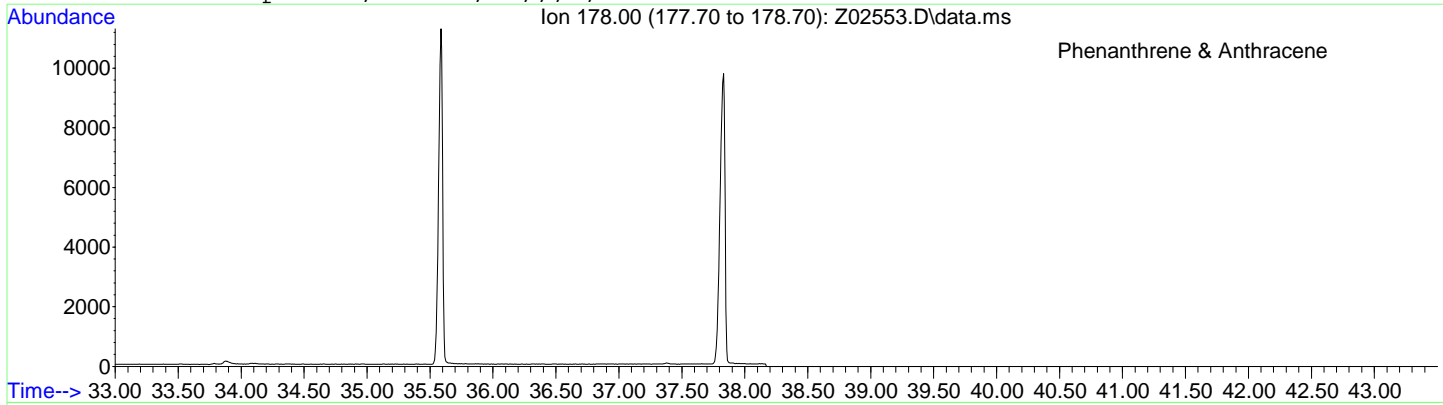
File: Z:\2\data\Z140605\Z02553.D
 Date Acquired: 6 Jun 2014 4:38 pm
 Sample Name: op38385-mb
 Misc Info: op38385,msz101,35,,2,1



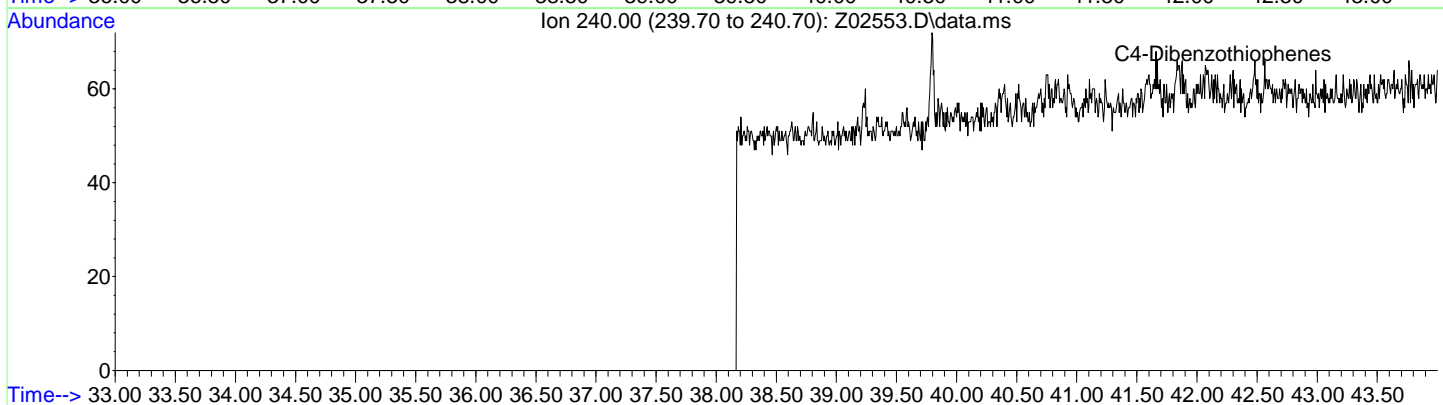
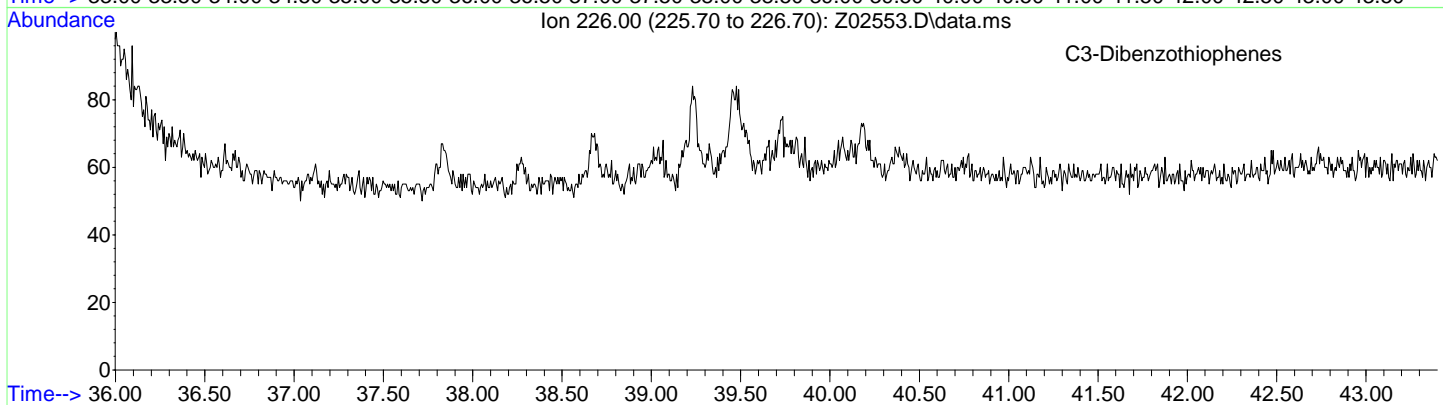
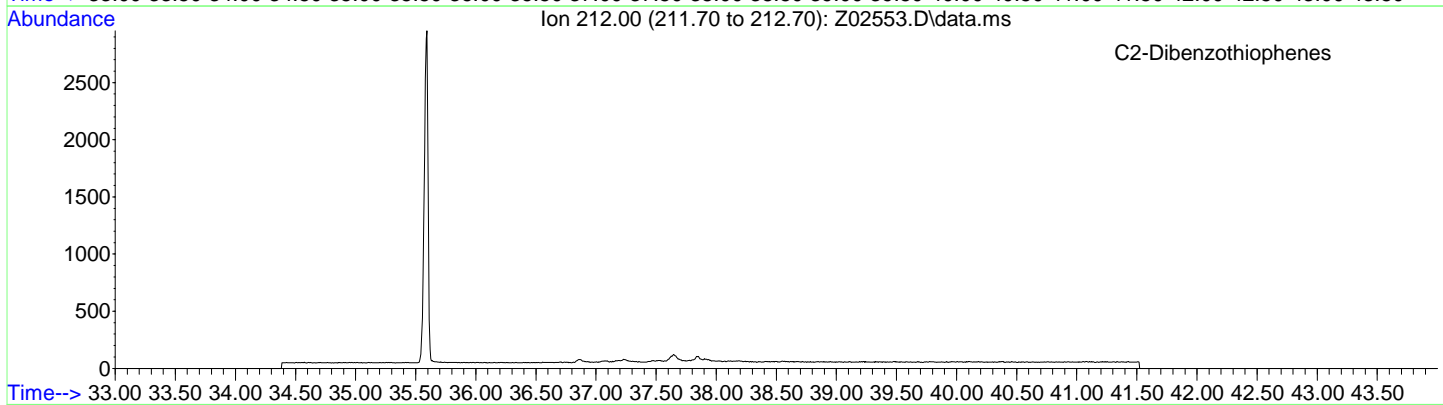
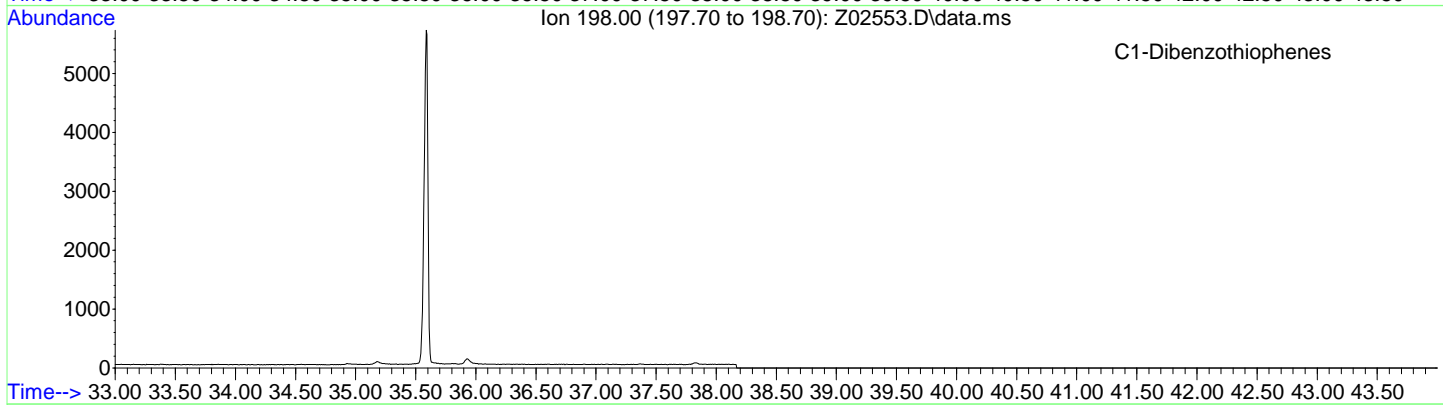
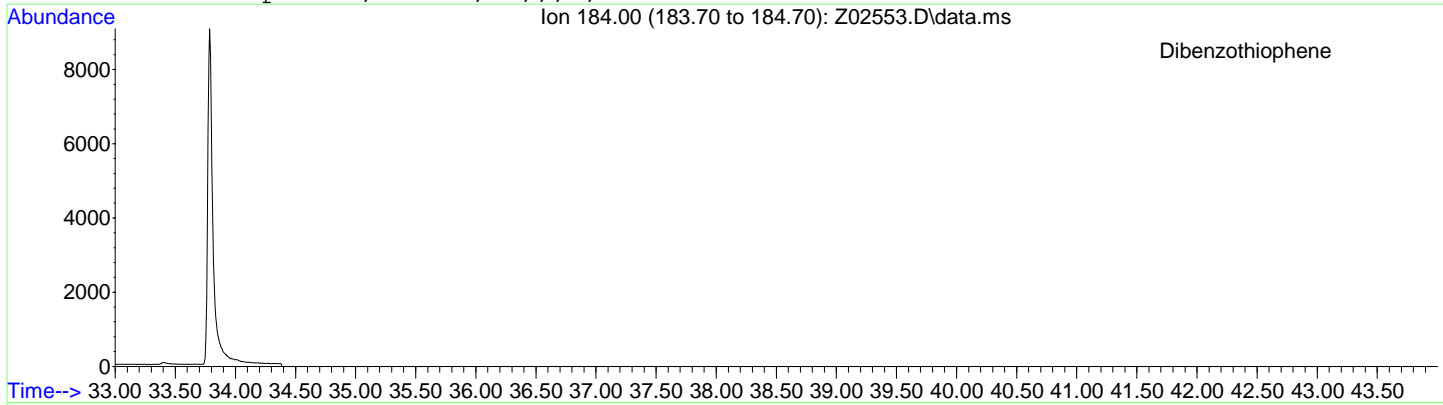
File: Z:\2\data\Z140605\Z02553.D
 Date Acquired: 6 Jun 2014 4:38 pm
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: op38385-mb
 Misc Info: op38385,msz101,35,,2,1



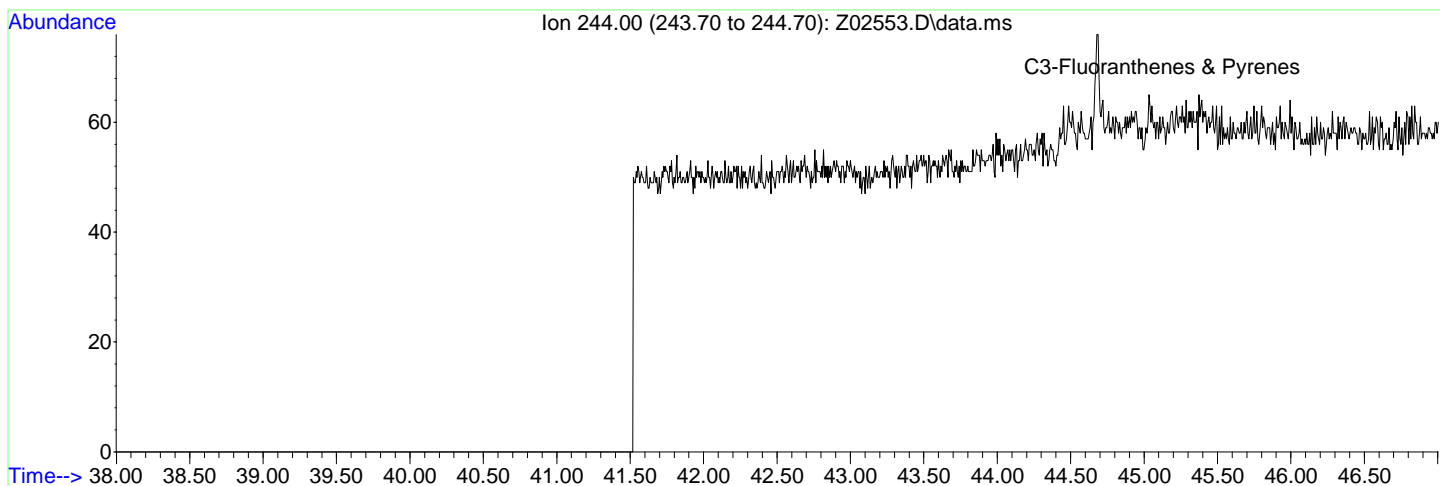
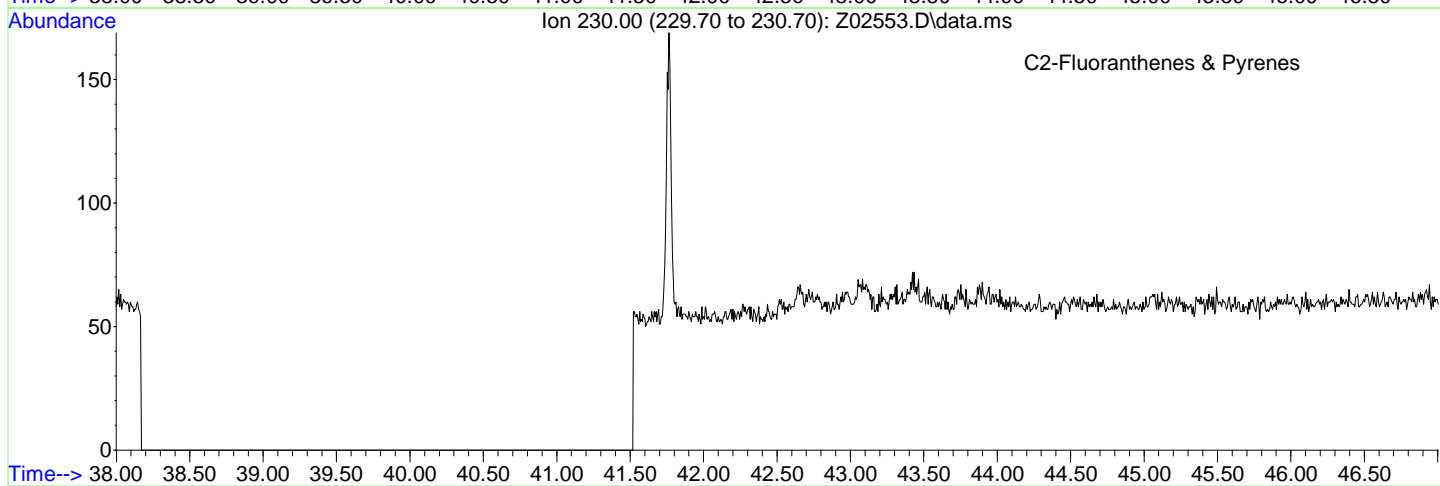
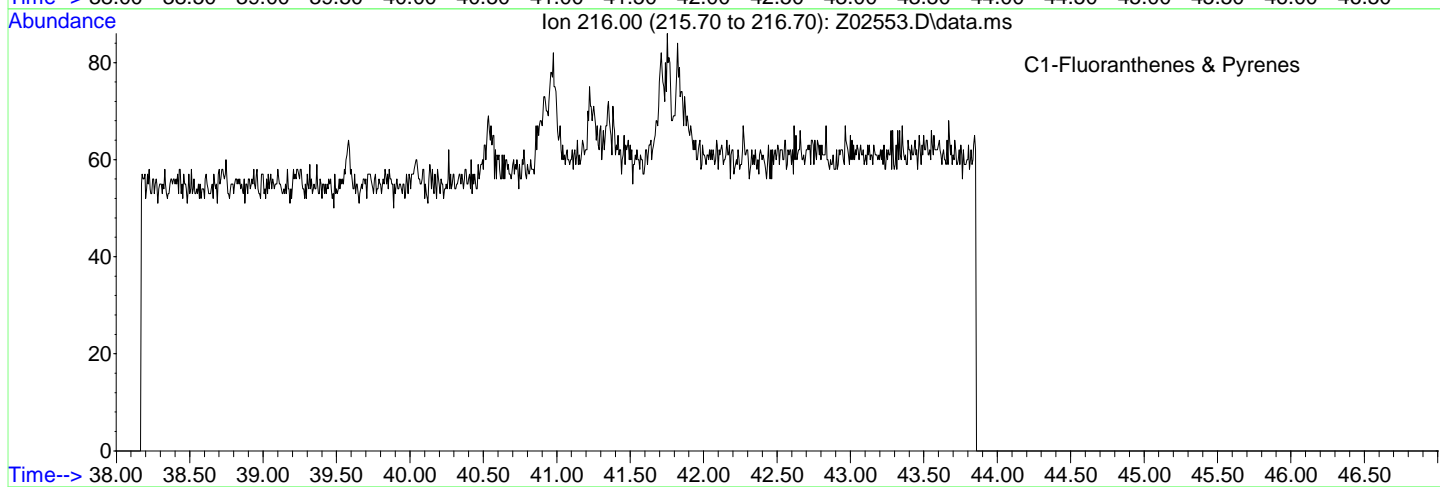
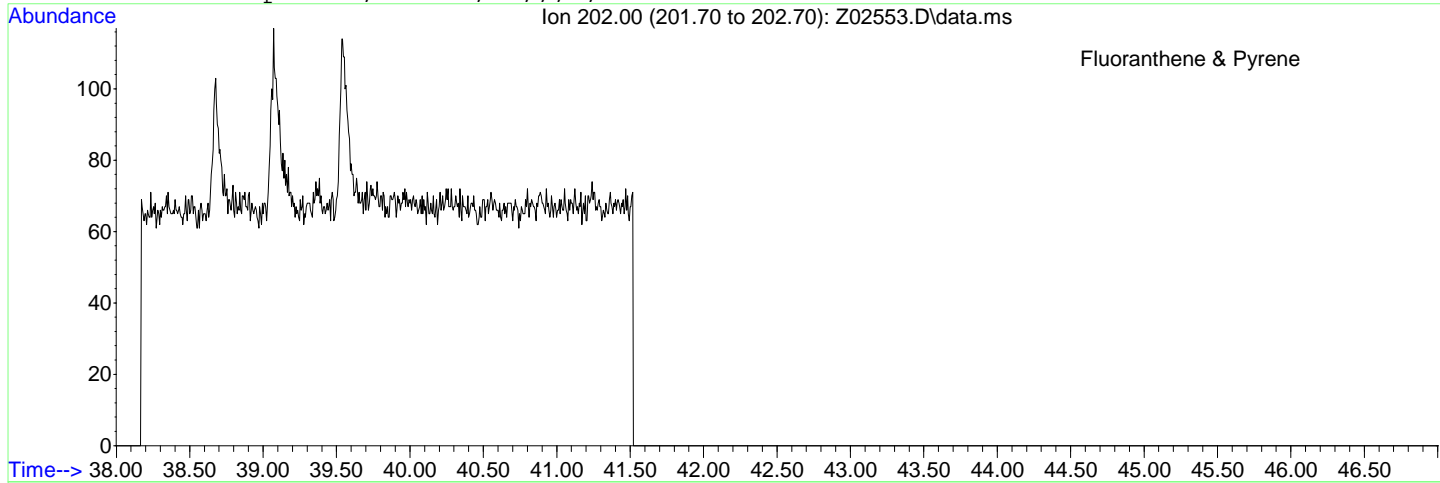
File: Z:\2\data\Z140605\Z02553.D
Date Acquired: 6 Jun 2014 4:38 pm
Sample Name: op38385-mb
Misc Info: op38385,msz101,35,,2,1



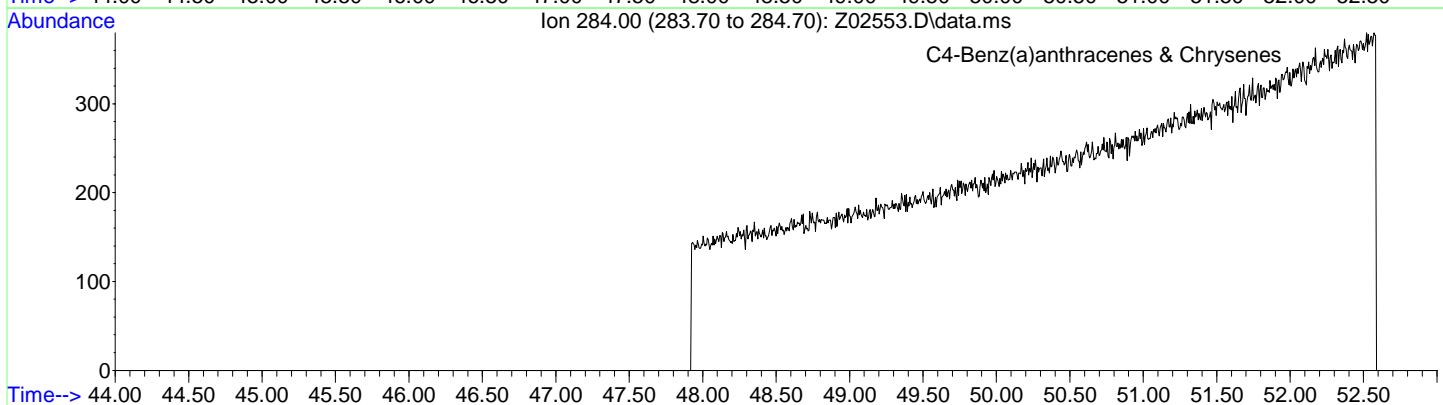
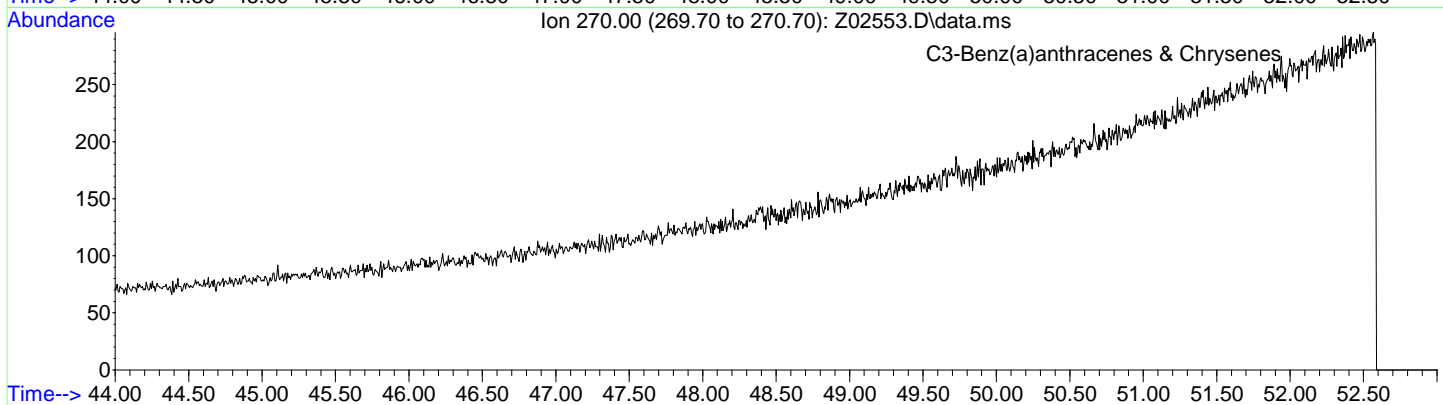
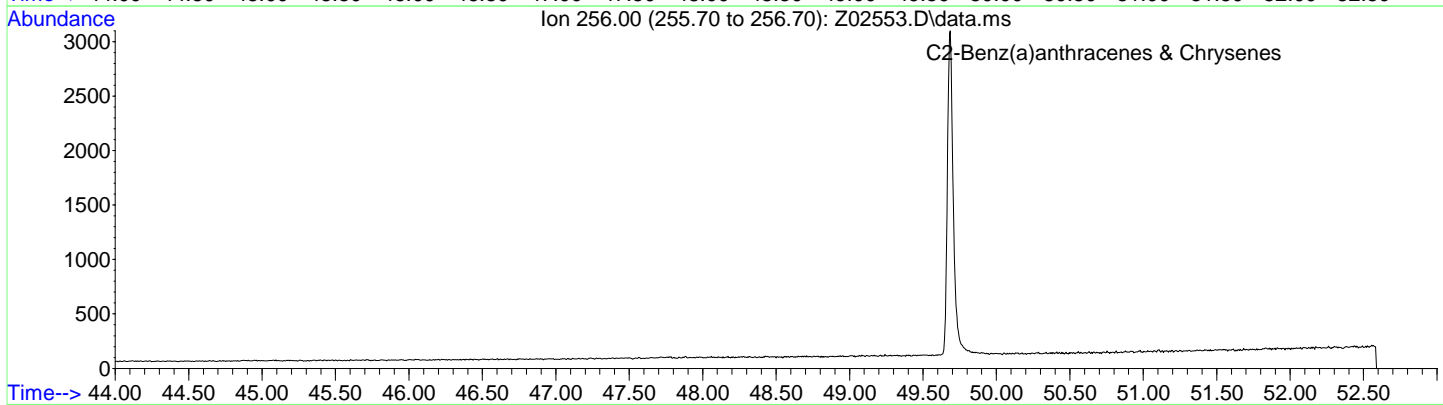
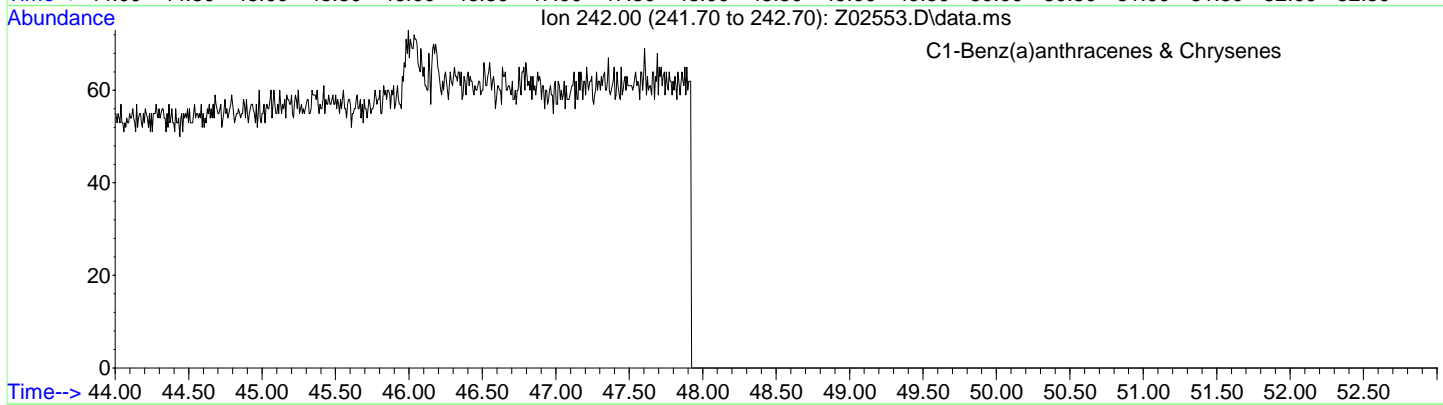
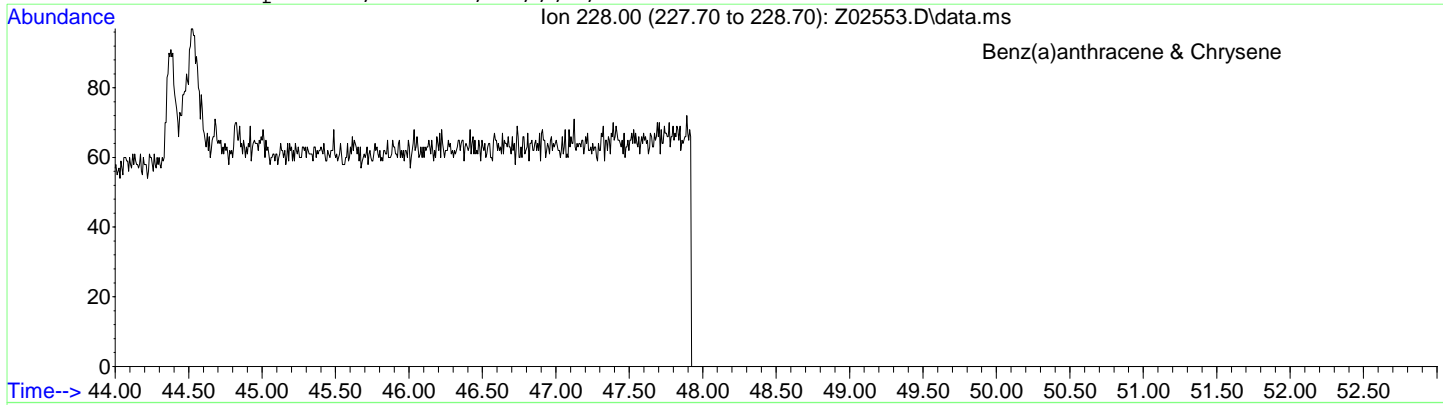
File: Z:\2\data\Z140605\Z02553.D
 Date Acquired: 6 Jun 2014 4:38 pm
 Sample Name: op38385-mb
 Misc Info: op38385,msz101,35,,2,1



File: Z:\2\data\Z140605\Z02553.D
 Date Acquired: 6 Jun 2014 4:38 pm
 Method File: ZAPAHSIM-MTBE.M
 Sample Name: op38385-mb
 Misc Info: op38385,msz101,35,,2,1



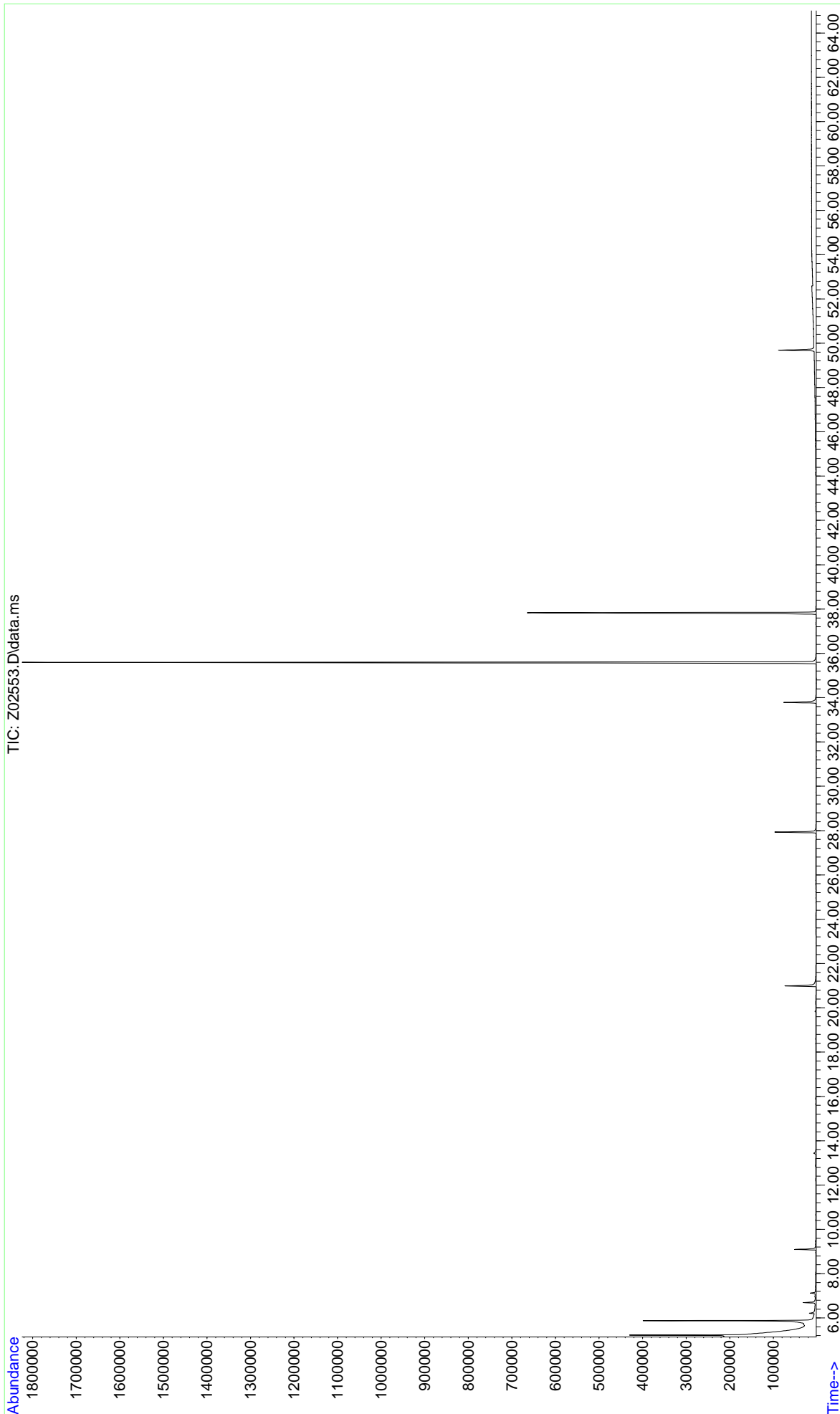
File: Z:\2\data\Z140605\Z02553.D
 Date Acquired: 6 Jun 2014 4:38 pm
 Sample Name: op38385-mb
 Misc Info: op38385,msz101,35,,2,1



ACCUTEST

GC/MS TOTAL ION CHROMATOGRAM

File: Z:\2\data\Z140605\Z02553.D
Date Acquired: 6 Jun 2014 4:38 pm
Method File: ZAPHSIM-MTBE.M
Sample Name: op38385-mb
Misc Info: op38385,msz101,35,,2,1



Appendix D
Accutest Laboratories Report –
MC30898

Technical Report for

META Environmental, Inc.

GEINYA: RG&E West Station, Falls Street, Rochester, NY

Accutest Job Number: MC30898

Sampling Date: 05/27/14

Report to:

**META Environmental, Inc.
115 Dean Avenue Suite 300
Franklin MA 02038, MA 02038
dmauro@metaenv.com**

ATTN: Dave Mauro

Total number of pages in report: 212



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



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

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

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

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Summary of Hits	6
Section 4: Sample Results	10
4.1: MC30898-1: SEEP-1	11
4.2: MC30898-2: SEEP-1-0-3"	15
4.3: MC30898-3: SEEP-1-12-14"	19
4.4: MC30898-4: MW-26S	23
Section 5: Misc. Forms	27
5.1: Chain of Custody	28
Section 6: GC/MS Semi-volatiles - QC Data Summaries	30
6.1: Method Blank Summary	31
6.2: Blank Spike Summary	37
6.3: Duplicate Summary	43
6.4: Surrogate Recovery Summaries	49
Section 7: GC/MS Semi-volatiles - Raw Data	51
7.1: Samples	52
7.2: Method Blanks	172
Section 8: GC Semi-volatiles - QC Data Summaries	185
8.1: Method Blank Summary	186
8.2: Blank Spike Summary	188
8.3: Duplicate Summary	190
8.4: Surrogate Recovery Summaries	192
Section 9: GC Semi-volatiles - Raw Data	194
9.1: Samples	195
9.2: Method Blanks	207

1

2

3

4

5

6

7

8

9

Accutest Laboratories

Sample Summary

META Environmental, Inc.

Job No: MC30898

GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC30898-1	05/27/14	12:00 MC	05/28/14	AQ	Ground Water	SEEP-1
MC30898-2	05/27/14	11:30 MC	05/28/14	SO	Soil	SEEP-1-0-3"
MC30898-3	05/27/14	12:00 MC	05/28/14	SO	Soil	SEEP-1-12-14"
MC30898-4	05/27/14	14:00 MC	05/28/14	AQ	Ground Water	MW-26S

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: META Environmental, Inc.

Job No MC30898

Site: GEINYA: RG&E West Station, Falls Street, Rochester, NY

Report Date 6/13/2014 4:36:47 PM

4 Sample(s) were collected on 05/27/2014 and were received at Accutest on 05/28/2014 properly preserved, at 0.2 Deg. C and intact. These Samples received an Accutest job number of MC30898. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Extractables by GCMS By Method D5739-06/8270C SIM

Matrix AQ

Batch ID: OP38385

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC30898-1DUP were used as the QC samples indicated.
- Sample(s) MC30898-1, MC30898-4 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.
- RPD(s) for Duplicate for 1-Methylnaphthalene, C1-Naphthalenes: High RPD due to possible sample heterogeneity.
- RPD of OP38385-DUP for some of compounds: High RPD due to sample levels below reporting limit.

Matrix SO

Batch ID: OP38366

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC30898-2DUP were used as the QC samples indicated.
- Blank Spike Recovery(s) for Benzene are outside control limits. Meets program technical requirements.
- RPD(s) for Duplicate for Benzo(b)fluorene, C3-Benzo(a)anthracenes/Chrysenes, C3-Fluoranthenes/Pyrenes, C4-Phenanthrenes/Anthracenes, 1,2,3-Trimethylbenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 2-Methylnaphthalene, Benzo(b)thiophene, Ethylbenzene, Fluorene, n-Butylbenzene, n-Propylbenzene, o-Xylene, Phenanthrene are outside control limits for sample OP38366-DUP8. High RPD due to possible sample heterogeneity.
- RPD of OP38366-DUP8 for trans-Decalin: High RPD due to sample levels below reporting limit.
- Sample(s) MC30898-2, MC30898-3 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.

Extractables by GC By Method ASTM D3328-06

Matrix AQ	Batch ID: OP38384
------------------	--------------------------

- Sample(s) MC30898-1DUP were used as the QC samples indicated.

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Matrix SO	Batch ID: OP38365
------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC30898-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for TPH (C8-C40) are outside control limits for sample OP38365-DUP8. High RPD due to possible sample heterogeneity.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix SO	Batch ID: GN47051
------------------	--------------------------

- Sample(s) MC30916-1DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (MC30898).

Summary of Hits

Job Number: MC30898
Account: META Environmental, Inc.
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY
Collected: 05/27/14

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
MC30898-1	SEEP-1					
		C2-Benzenes	1.9	0.57	ug/l	D5739-06/8270C SIM
		C3-Benzenes	1.6	0.57	ug/l	D5739-06/8270C SIM
		C4-Benzenes	1.5	0.57	ug/l	D5739-06/8270C SIM
		m,p-Xylene	0.88 B	0.57	ug/l	D5739-06/8270C SIM
		Styrene	1.3 B	0.57	ug/l	D5739-06/8270C SIM
		o-Xylene	2.4	0.57	ug/l	D5739-06/8270C SIM
		Benzo(b)thiophene	2.9	0.57	ug/l	D5739-06/8270C SIM
		C2-Naphthalenes	0.92	0.57	ug/l	D5739-06/8270C SIM
		Acenaphthene	0.74	0.57	ug/l	D5739-06/8270C SIM
MC30898-2	SEEP-1-0-3"					
		Benzene	22.9 B	5.9	ug/kg	D5739-06/8270C SIM
		C1-Benzene	27.2	5.9	ug/kg	D5739-06/8270C SIM
		C2-Benzenes	45.5	5.9	ug/kg	D5739-06/8270C SIM
		C3-Benzenes	25.9	5.9	ug/kg	D5739-06/8270C SIM
		C4-Benzenes	26.1	5.9	ug/kg	D5739-06/8270C SIM
		C5-Benzenes	22.4	5.9	ug/kg	D5739-06/8270C SIM
		Toluene	43.6	5.9	ug/kg	D5739-06/8270C SIM
		Ethylbenzene	8.3	5.9	ug/kg	D5739-06/8270C SIM
		m,p-Xylene	70.2	5.9	ug/kg	D5739-06/8270C SIM
		Styrene	51.4	5.9	ug/kg	D5739-06/8270C SIM
		o-Xylene	13.8	5.9	ug/kg	D5739-06/8270C SIM
		1,2,4-Trimethylbenzene	13.2	5.9	ug/kg	D5739-06/8270C SIM
		n-Butylbenzene	6.3	5.9	ug/kg	D5739-06/8270C SIM
		Benzo(b)thiophene	38.8	5.9	ug/kg	D5739-06/8270C SIM
		Naphthalene	34.1	5.9	ug/kg	D5739-06/8270C SIM
		2-Methylnaphthalene	26.0	5.9	ug/kg	D5739-06/8270C SIM
		1-Methylnaphthalene	24.8	5.9	ug/kg	D5739-06/8270C SIM
		C1-Naphthalenes	35.5	5.9	ug/kg	D5739-06/8270C SIM
		C2-Naphthalenes	44.7	5.9	ug/kg	D5739-06/8270C SIM
		C3-Naphthalenes	36.7	5.9	ug/kg	D5739-06/8270C SIM
		C4-Naphthalenes	24.2	5.9	ug/kg	D5739-06/8270C SIM
		Biphenyl	9.4	5.9	ug/kg	D5739-06/8270C SIM
		Acenaphthylene	50.1	5.9	ug/kg	D5739-06/8270C SIM
		Acenaphthene	37.7	5.9	ug/kg	D5739-06/8270C SIM
		Dibenzofuran	24.7	5.9	ug/kg	D5739-06/8270C SIM
		Fluorene	23.1	5.9	ug/kg	D5739-06/8270C SIM
		C1-Fluorenes	13.9	5.9	ug/kg	D5739-06/8270C SIM
		C2-Fluorenes	18.8	5.9	ug/kg	D5739-06/8270C SIM
		C3-Fluorenes	34.1	5.9	ug/kg	D5739-06/8270C SIM
		Dibenzothiophene	12.4	5.9	ug/kg	D5739-06/8270C SIM
		C1-Dibenzothiophenes	15.4	5.9	ug/kg	D5739-06/8270C SIM

Summary of Hits

Job Number: MC30898
Account: META Environmental, Inc.
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY
Collected: 05/27/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C2-Dibenzothiophenes		24.1	5.9		ug/kg	D5739-06/8270C SIM
C3-Dibenzothiophenes		23.9	5.9		ug/kg	D5739-06/8270C SIM
C4-Dibenzothiophenes		47.0	5.9		ug/kg	D5739-06/8270C SIM
Phenanthrene		156	5.9		ug/kg	D5739-06/8270C SIM
Anthracene		55.2	5.9		ug/kg	D5739-06/8270C SIM
C1-Phenanthrenes/Anthracenes		72.4	5.9		ug/kg	D5739-06/8270C SIM
C2-Phenanthrenes/Anthracenes		45.1	5.9		ug/kg	D5739-06/8270C SIM
C3-Phenanthrenes/Anthracenes		30.0	5.9		ug/kg	D5739-06/8270C SIM
C4-Phenanthrenes/Anthracenes		22.9	5.9		ug/kg	D5739-06/8270C SIM
Retene		6.6	5.9		ug/kg	D5739-06/8270C SIM
Benzo(b)naphtho(2,1-d)thiophene		15.0	5.9		ug/kg	D5739-06/8270C SIM
Fluoranthene		273	5.9		ug/kg	D5739-06/8270C SIM
Pyrene		257	5.9		ug/kg	D5739-06/8270C SIM
C1-Fluoranthenes/Pyrenes		108	5.9		ug/kg	D5739-06/8270C SIM
C2-Fluoranthenes/Pyrenes		63.9	5.9		ug/kg	D5739-06/8270C SIM
C3-Fluoranthenes/Pyrenes		37.7	5.9		ug/kg	D5739-06/8270C SIM
Benzo(b)fluorene		11.3	5.9		ug/kg	D5739-06/8270C SIM
Benzo(c)fluorene		7.4	5.9		ug/kg	D5739-06/8270C SIM
2-Methylpyrene		12.5	5.9		ug/kg	D5739-06/8270C SIM
4-Methylpyrene		12.2	5.9		ug/kg	D5739-06/8270C SIM
1-Methylpyrene		9.4	5.9		ug/kg	D5739-06/8270C SIM
Benzo(a)anthracene		119	5.9		ug/kg	D5739-06/8270C SIM
Chrysene		126	5.9		ug/kg	D5739-06/8270C SIM
C1-Benzo(a)anthracenes/Chrysenes		53.6	5.9		ug/kg	D5739-06/8270C SIM
C2-Benzo(a)anthracenes/Chrysenes		26.7	5.9		ug/kg	D5739-06/8270C SIM
C3-Benzo(a)anthracenes/Chrysenes		30.0	5.9		ug/kg	D5739-06/8270C SIM
C4-Benzo(a)anthracenes/Chrysenes		17.6	5.9		ug/kg	D5739-06/8270C SIM
Benzo(b)fluoranthene		120	5.9		ug/kg	D5739-06/8270C SIM
Benzo(k)fluoranthene		107	5.9		ug/kg	D5739-06/8270C SIM
Benzo(e)pyrene		99.2	5.9		ug/kg	D5739-06/8270C SIM
Benzo(a)pyrene		145	5.9		ug/kg	D5739-06/8270C SIM
Perylene		76.0	5.9		ug/kg	D5739-06/8270C SIM
Indeno(1,2,3-cd)pyrene		82.9	5.9		ug/kg	D5739-06/8270C SIM
Dibenzo(a,h)anthracene		27.7	5.9		ug/kg	D5739-06/8270C SIM
Benzo(g,h,i)perylene		96.7	5.9		ug/kg	D5739-06/8270C SIM
Coronene		25.8	5.9		ug/kg	D5739-06/8270C SIM
TPH (C8-C40)		95.0	59		mg/kg	ASTM D3328-06

MC30898-3 SEEP-1-12-14"

Benzene		17.0 B	6.4		ug/kg	D5739-06/8270C SIM
C1-Benzene		23.7	6.4		ug/kg	D5739-06/8270C SIM
C2-Benzenes		43.5	6.4		ug/kg	D5739-06/8270C SIM
C3-Benzenes		40.1	6.4		ug/kg	D5739-06/8270C SIM
C4-Benzenes		36.8	6.4		ug/kg	D5739-06/8270C SIM

Summary of Hits

Job Number: MC30898
Account: META Environmental, Inc.
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY
Collected: 05/27/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C5-Benzenes		23.9	6.4		ug/kg	D5739-06/8270C SIM
Toluene		36.1	6.4		ug/kg	D5739-06/8270C SIM
Ethylbenzene		13.6	6.4		ug/kg	D5739-06/8270C SIM
m,p-Xylene		46.2	6.4		ug/kg	D5739-06/8270C SIM
Styrene		50.5	6.4		ug/kg	D5739-06/8270C SIM
o-Xylene		21.1	6.4		ug/kg	D5739-06/8270C SIM
n-Propylbenzene		8.6	6.4		ug/kg	D5739-06/8270C SIM
1,2,3-Trimethylbenzene		8.0	6.4		ug/kg	D5739-06/8270C SIM
1,2,4-Trimethylbenzene		24.4	6.4		ug/kg	D5739-06/8270C SIM
n-Butylbenzene		16.4	6.4		ug/kg	D5739-06/8270C SIM
Benzo(b)thiophene		45.0	6.4		ug/kg	D5739-06/8270C SIM
Naphthalene		57.4	6.4		ug/kg	D5739-06/8270C SIM
2-Methylnaphthalene		35.9	6.4		ug/kg	D5739-06/8270C SIM
1-Methylnaphthalene		37.1	6.4		ug/kg	D5739-06/8270C SIM
C1-Naphthalenes		48.5	6.4		ug/kg	D5739-06/8270C SIM
C2-Naphthalenes		54.6	6.4		ug/kg	D5739-06/8270C SIM
C3-Naphthalenes		45.7	6.4		ug/kg	D5739-06/8270C SIM
C4-Naphthalenes		34.0	6.4		ug/kg	D5739-06/8270C SIM
Biphenyl		13.3	6.4		ug/kg	D5739-06/8270C SIM
Acenaphthylene		57.0	6.4		ug/kg	D5739-06/8270C SIM
Acenaphthene		16.9	6.4		ug/kg	D5739-06/8270C SIM
Dibenzofuran		26.8	6.4		ug/kg	D5739-06/8270C SIM
Fluorene		17.2	6.4		ug/kg	D5739-06/8270C SIM
C1-Fluorenes		13.8	6.4		ug/kg	D5739-06/8270C SIM
C2-Fluorenes		27.9	6.4		ug/kg	D5739-06/8270C SIM
C3-Fluorenes		46.6	6.4		ug/kg	D5739-06/8270C SIM
Dibenzothiophene		10.5	6.4		ug/kg	D5739-06/8270C SIM
C1-Dibenzothiophenes		19.8	6.4		ug/kg	D5739-06/8270C SIM
C2-Dibenzothiophenes		32.4	6.4		ug/kg	D5739-06/8270C SIM
C3-Dibenzothiophenes		30.0	6.4		ug/kg	D5739-06/8270C SIM
C4-Dibenzothiophenes		38.9	6.4		ug/kg	D5739-06/8270C SIM
Phenanthrene		132	6.4		ug/kg	D5739-06/8270C SIM
Anthracene		55.4	6.4		ug/kg	D5739-06/8270C SIM
C1-Phenanthrenes/Anthracenes		91.0	6.4		ug/kg	D5739-06/8270C SIM
C2-Phenanthrenes/Anthracenes		81.1	6.4		ug/kg	D5739-06/8270C SIM
C3-Phenanthrenes/Anthracenes		47.1	6.4		ug/kg	D5739-06/8270C SIM
C4-Phenanthrenes/Anthracenes		25.9	6.4		ug/kg	D5739-06/8270C SIM
Retene		7.7	6.4		ug/kg	D5739-06/8270C SIM
Benzo(b)naphtho(2,1-d)thiophene		22.6	6.4		ug/kg	D5739-06/8270C SIM
Fluoranthene		310	6.4		ug/kg	D5739-06/8270C SIM
Pyrene		277	6.4		ug/kg	D5739-06/8270C SIM
C1-Fluoranthenes/Pyrenes		140	6.4		ug/kg	D5739-06/8270C SIM
C2-Fluoranthenes/Pyrenes		104	6.4		ug/kg	D5739-06/8270C SIM
C3-Fluoranthenes/Pyrenes		57.9	6.4		ug/kg	D5739-06/8270C SIM
Benzo(b)fluorene		11.8	6.4		ug/kg	D5739-06/8270C SIM

Summary of Hits

Job Number: MC30898
Account: META Environmental, Inc.
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY
Collected: 05/27/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
2-Methylpyrene		18.9	6.4		ug/kg	D5739-06/8270C SIM
4-Methylpyrene		16.4	6.4		ug/kg	D5739-06/8270C SIM
1-Methylpyrene		12.0	6.4		ug/kg	D5739-06/8270C SIM
Benzo(a)anthracene		171	6.4		ug/kg	D5739-06/8270C SIM
Chrysene		181	6.4		ug/kg	D5739-06/8270C SIM
C1-Benzo(a)anthracenes/Chrysenes		83.7	6.4		ug/kg	D5739-06/8270C SIM
C2-Benzo(a)anthracenes/Chrysenes		46.7	6.4		ug/kg	D5739-06/8270C SIM
C3-Benzo(a)anthracenes/Chrysenes		42.8	6.4		ug/kg	D5739-06/8270C SIM
C4-Benzo(a)anthracenes/Chrysenes		39.9	6.4		ug/kg	D5739-06/8270C SIM
Benzo(b)fluoranthene		165	6.4		ug/kg	D5739-06/8270C SIM
Benzo(k)fluoranthene		156	6.4		ug/kg	D5739-06/8270C SIM
Benzo(e)pyrene		140	6.4		ug/kg	D5739-06/8270C SIM
Benzo(a)pyrene		198	6.4		ug/kg	D5739-06/8270C SIM
Perylene		94.8	6.4		ug/kg	D5739-06/8270C SIM
Indeno(1,2,3-cd)pyrene		113	6.4		ug/kg	D5739-06/8270C SIM
Dibenzo(a,h)anthracene		42.4	6.4		ug/kg	D5739-06/8270C SIM
Benzo(g,h,i)perylene		139	6.4		ug/kg	D5739-06/8270C SIM
Coronene		36.2	6.4		ug/kg	D5739-06/8270C SIM
TPH (C8-C40)		198	64		mg/kg	ASTM D3328-06
MC30898-4	MW-26S					
Styrene		1.1 B	0.57		ug/l	D5739-06/8270C SIM

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID: SEEP-1		
Lab Sample ID: MC30898-1		Date Sampled: 05/27/14
Matrix: AQ - Ground Water		Date Received: 05/28/14
Method: D5739-06/8270C SIM SW846 3511		Percent Solids: n/a
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z02556.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101
Run #2							

Run #	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.57	ug/l	B
	C1-Benzenes	ND	0.57	ug/l	
	C2-Benzenes	1.9	0.57	ug/l	
	C3-Benzenes	1.6	0.57	ug/l	
	C4-Benzenes	1.5	0.57	ug/l	
	C5-Benzenes	ND	0.57	ug/l	
108-88-3	Toluene	ND	0.57	ug/l	B
100-41-4	Ethylbenzene	ND	0.57	ug/l	
	m,p-Xylene	0.88	0.57	ug/l	B
100-42-5	Styrene	1.3	0.57	ug/l	B
95-47-6	o-Xylene	2.4	0.57	ug/l	
98-82-8	Isopropylbenzene	ND	0.57	ug/l	
103-65-1	n-Propylbenzene	ND	0.57	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.57	ug/l	
526-73-8	1,2,3-Trimethylbenzene	ND	0.57	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.57	ug/l	
98-06-6	t-Butylbenzene	ND	0.57	ug/l	
135-98-8	sec-Butylbenzene	ND	0.57	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.57	ug/l	
104-51-8	n-Butylbenzene	ND	0.57	ug/l	
493-02-7	trans-Decalin	ND	0.57	ug/l	
493-01-6	cis-Decalin	ND	0.57	ug/l	
11095-43-5	Benzo(b)thiophene	2.9	0.57	ug/l	
91-20-3	Naphthalene	ND	0.57	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.57	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.57	ug/l	
	C1-Naphthalenes	ND	0.57	ug/l	
	C2-Naphthalenes	0.92	0.57	ug/l	
	C3-Naphthalenes	ND	0.57	ug/l	
	C4-Naphthalenes	ND	0.57	ug/l	
92-52-4	Biphenyl	ND	0.57	ug/l	
208-96-8	Acenaphthylene	ND	0.57	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 2 of 3

Client Sample ID: SEEP-1		Date Sampled: 05/27/14
Lab Sample ID: MC30898-1		Date Received: 05/28/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: D5739-06/8270C SIM SW846 3511		
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.74	0.57	ug/l	
132-64-9	Dibenzofuran	ND	0.57	ug/l	
86-73-7	Fluorene	ND	0.57	ug/l	
	C1-Fluorenes	ND	0.57	ug/l	
	C2-Fluorenes	ND	0.57	ug/l	
	C3-Fluorenes	ND	0.57	ug/l	
132-65-0	Dibenzothiophene	ND	0.57	ug/l	
	C1-Dibenzothiophenes	ND	0.57	ug/l	
	C2-Dibenzothiophenes	ND	0.57	ug/l	
	C3-Dibenzothiophenes	ND	0.57	ug/l	
	C4-Dibenzothiophenes	ND	0.57	ug/l	
85-01-8	Phenanthrene	ND	0.57	ug/l	
120-12-7	Anthracene	ND	0.57	ug/l	
	C1-Phenanthrenes/Anthracene	ND	0.57	ug/l	
	C2-Phenanthrenes/Anthracene	ND	0.57	ug/l	
	C3-Phenanthrenes/Anthracene	ND	0.57	ug/l	
	C4-Phenanthrenes/Anthracene	ND	0.57	ug/l	
483-65-8	Retene	ND	0.57	ug/l	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	ND	0.57	ug/l	
206-44-0	Fluoranthene	ND	0.57	ug/l	
129-00-0	Pyrene	ND	0.57	ug/l	
	C1-Fluoranthenes/Pyrenes	ND	0.57	ug/l	
	C2-Fluoranthenes/Pyrenes	ND	0.57	ug/l	
	C3-Fluoranthenes/Pyrenes	ND	0.57	ug/l	
243-17-4	Benzo(b)fluorene	ND	0.57	ug/l	
205-12-9	Benzo(c)fluorene	ND	0.57	ug/l	
3442-78-2	2-Methylpyrene	ND	0.57	ug/l	
3353-12-6	4-Methylpyrene	ND	0.57	ug/l	
2381-21-7	1-Methylpyrene	ND	0.57	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.57	ug/l	
218-01-9	Chrysene	ND	0.57	ug/l	
	C1-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
	C2-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
	C3-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
	C4-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.57	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.57	ug/l	
192-97-2	Benzo(e)pyrene	ND	0.57	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.57	ug/l	
198-55-0	Perylene	ND	0.57	ug/l	

ND = Not detected

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: SEEP-1		
Lab Sample ID: MC30898-1		Date Sampled: 05/27/14
Matrix: AQ - Ground Water		Date Received: 05/28/14
Method: D5739-06/8270C SIM SW846 3511		Percent Solids: n/a
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.57	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.57	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.57	ug/l	
191-07-1	Coronene	ND	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	108%		40-140%
1146-65-2	Naphthalene-d8	97%		40-140%
1517-22-2	Phenanthrene-d10	103%		40-140%
	Perylene-d12	100%		40-140%

ND = Not detected
 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

4.1
 4

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	SEEP-1	Date Sampled:	05/27/14
Lab Sample ID:	MC30898-1	Date Received:	05/28/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	ASTM D3328-06 SW846 3511		
Project:	GEINYA: RG&E West Station, Falls Street, Rochester, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44610.D	1	06/05/14	RP	06/03/14	OP38384	GBG1703
Run #2							

	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	5.7	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
84-15-1	o-Terphenyl	112%		40-140%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID: SEEP-1-0-3"		
Lab Sample ID: MC30898-2		Date Sampled: 05/27/14
Matrix: SO - Soil		Date Received: 05/28/14
Method: D5739-06/8270C SIM SW846 3570		Percent Solids: 57.8
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z02548.D	1	06/06/14	SZ	06/02/14	OP38366	MSZ101
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.91 g	2.0 ml
Run #2		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	22.9	5.9	ug/kg	B
	C1-Benzenes	27.2	5.9	ug/kg	
	C2-Benzenes	45.5	5.9	ug/kg	
	C3-Benzenes	25.9	5.9	ug/kg	
	C4-Benzenes	26.1	5.9	ug/kg	
	C5-Benzenes	22.4	5.9	ug/kg	
108-88-3	Toluene	43.6	5.9	ug/kg	
100-41-4	Ethylbenzene	8.3	5.9	ug/kg	
	m,p-Xylene	70.2	5.9	ug/kg	
100-42-5	Styrene	51.4	5.9	ug/kg	
95-47-6	o-Xylene	13.8	5.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.9	ug/kg	
103-65-1	n-Propylbenzene	ND	5.9	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.9	ug/kg	
526-73-8	1,2,3-Trimethylbenzene	ND	5.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	13.2	5.9	ug/kg	
98-06-6	t-Butylbenzene	ND	5.9	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.9	ug/kg	
104-51-8	n-Butylbenzene	6.3	5.9	ug/kg	
493-02-7	trans-Decalin	ND	5.9	ug/kg	
493-01-6	cis-Decalin	ND	5.9	ug/kg	
11095-43-5	Benzo(b)thiophene	38.8	5.9	ug/kg	
91-20-3	Naphthalene	34.1	5.9	ug/kg	
91-57-6	2-Methylnaphthalene	26.0	5.9	ug/kg	
90-12-0	1-Methylnaphthalene	24.8	5.9	ug/kg	
	C1-Naphthalenes	35.5	5.9	ug/kg	
	C2-Naphthalenes	44.7	5.9	ug/kg	
	C3-Naphthalenes	36.7	5.9	ug/kg	
	C4-Naphthalenes	24.2	5.9	ug/kg	
92-52-4	Biphenyl	9.4	5.9	ug/kg	
208-96-8	Acenaphthylene	50.1	5.9	ug/kg	

ND = Not detected

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:	SEEP-1-0-3"	Date Sampled:	05/27/14
Lab Sample ID:	MC30898-2	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	57.8
Method:	D5739-06/8270C SIM SW846 3570		
Project:	GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	37.7	5.9	ug/kg	
132-64-9	Dibenzofuran	24.7	5.9	ug/kg	
86-73-7	Fluorene	23.1	5.9	ug/kg	
	C1-Fluorenes	13.9	5.9	ug/kg	
	C2-Fluorenes	18.8	5.9	ug/kg	
	C3-Fluorenes	34.1	5.9	ug/kg	
132-65-0	Dibenzothiophene	12.4	5.9	ug/kg	
	C1-Dibenzothiophenes	15.4	5.9	ug/kg	
	C2-Dibenzothiophenes	24.1	5.9	ug/kg	
	C3-Dibenzothiophenes	23.9	5.9	ug/kg	
	C4-Dibenzothiophenes	47.0	5.9	ug/kg	
85-01-8	Phenanthrene	156	5.9	ug/kg	
120-12-7	Anthracene	55.2	5.9	ug/kg	
	C1-Phenanthrenes/Anthracene	72.4	5.9	ug/kg	
	C2-Phenanthrenes/Anthracene	45.1	5.9	ug/kg	
	C3-Phenanthrenes/Anthracene	30.0	5.9	ug/kg	
	C4-Phenanthrenes/Anthracene	22.9	5.9	ug/kg	
483-65-8	Retene	6.6	5.9	ug/kg	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	15.0	5.9	ug/kg	
206-44-0	Fluoranthene	273	5.9	ug/kg	
129-00-0	Pyrene	257	5.9	ug/kg	
	C1-Fluoranthenes/Pyrenes	108	5.9	ug/kg	
	C2-Fluoranthenes/Pyrenes	63.9	5.9	ug/kg	
	C3-Fluoranthenes/Pyrenes	37.7	5.9	ug/kg	
243-17-4	Benzo(b)fluorene	11.3	5.9	ug/kg	
205-12-9	Benzo(c)fluorene	7.4	5.9	ug/kg	
3442-78-2	2-Methylpyrene	12.5	5.9	ug/kg	
3353-12-6	4-Methylpyrene	12.2	5.9	ug/kg	
2381-21-7	1-Methylpyrene	9.4	5.9	ug/kg	
56-55-3	Benzo(a)anthracene	119	5.9	ug/kg	
218-01-9	Chrysene	126	5.9	ug/kg	
	C1-Benzo(a)anthracenes/Chrys	53.6	5.9	ug/kg	
	C2-Benzo(a)anthracenes/Chrys	26.7	5.9	ug/kg	
	C3-Benzo(a)anthracenes/Chrys	30.0	5.9	ug/kg	
	C4-Benzo(a)anthracenes/Chrys	17.6	5.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	120	5.9	ug/kg	
207-08-9	Benzo(k)fluoranthene	107	5.9	ug/kg	
192-97-2	Benzo(e)pyrene	99.2	5.9	ug/kg	
50-32-8	Benzo(a)pyrene	145	5.9	ug/kg	
198-55-0	Perylene	76.0	5.9	ug/kg	

ND = Not detected
 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

4.2
 4

Accutest Laboratories

Report of Analysis

Page 3 of 3

Client Sample ID: SEEP-1-0-3"		Date Sampled: 05/27/14
Lab Sample ID: MC30898-2		Date Received: 05/28/14
Matrix: SO - Soil		Percent Solids: 57.8
Method: D5739-06/8270C SIM SW846 3570		
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
193-39-5	Indeno(1,2,3-cd)pyrene	82.9	5.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	27.7	5.9	ug/kg	
191-24-2	Benzo(g,h,i)perylene	96.7	5.9	ug/kg	
191-07-1	Coronene	25.8	5.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	65%		40-140%
1146-65-2	Naphthalene-d8	67%		40-140%
1517-22-2	Phenanthrene-d10	71%		40-140%
	Perylene-d12	73%		40-140%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	SEEP-1-0-3"	Date Sampled:	05/27/14
Lab Sample ID:	MC30898-2	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	57.8
Method:	ASTM D3328-06 SW846 3570		
Project:	GEINYA: RG&E West Station, Falls Street, Rochester, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44628.D	1	06/05/14	RP	06/02/14	OP38365	GBG1703
Run #2							

	Initial Weight	Final Volume
Run #1	5.91 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	95.0	59	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
84-15-1	o-Terphenyl	75%		40-140%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID:	SEEP-1-12-14"	Date Sampled:	05/27/14
Lab Sample ID:	MC30898-3	Date Received:	05/28/14
Matrix:	SO - Soil	Percent Solids:	60.1
Method:	D5739-06/8270C SIM SW846 3570		
Project:	GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z02549.D	1	06/06/14	SZ	06/02/14	OP38366	MSZ101
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.19 g	2.0 ml
Run #2		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	17.0	6.4	ug/kg	B
	C1-Benzenes	23.7	6.4	ug/kg	
	C2-Benzenes	43.5	6.4	ug/kg	
	C3-Benzenes	40.1	6.4	ug/kg	
	C4-Benzenes	36.8	6.4	ug/kg	
	C5-Benzenes	23.9	6.4	ug/kg	
108-88-3	Toluene	36.1	6.4	ug/kg	
100-41-4	Ethylbenzene	13.6	6.4	ug/kg	
	m,p-Xylene	46.2	6.4	ug/kg	
100-42-5	Styrene	50.5	6.4	ug/kg	
95-47-6	o-Xylene	21.1	6.4	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	ug/kg	
103-65-1	n-Propylbenzene	8.6	6.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	ug/kg	
526-73-8	1,2,3-Trimethylbenzene	8.0	6.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	24.4	6.4	ug/kg	
98-06-6	t-Butylbenzene	ND	6.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.4	ug/kg	
104-51-8	n-Butylbenzene	16.4	6.4	ug/kg	
493-02-7	trans-Decalin	ND	6.4	ug/kg	
493-01-6	cis-Decalin	ND	6.4	ug/kg	
11095-43-5	Benzo(b)thiophene	45.0	6.4	ug/kg	
91-20-3	Naphthalene	57.4	6.4	ug/kg	
91-57-6	2-Methylnaphthalene	35.9	6.4	ug/kg	
90-12-0	1-Methylnaphthalene	37.1	6.4	ug/kg	
	C1-Naphthalenes	48.5	6.4	ug/kg	
	C2-Naphthalenes	54.6	6.4	ug/kg	
	C3-Naphthalenes	45.7	6.4	ug/kg	
	C4-Naphthalenes	34.0	6.4	ug/kg	
92-52-4	Biphenyl	13.3	6.4	ug/kg	
208-96-8	Acenaphthylene	57.0	6.4	ug/kg	

ND = Not detected

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: SEEP-1-12-14"		
Lab Sample ID: MC30898-3		Date Sampled: 05/27/14
Matrix: SO - Soil		Date Received: 05/28/14
Method: D5739-06/8270C SIM SW846 3570		Percent Solids: 60.1
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	16.9	6.4	ug/kg	
132-64-9	Dibenzofuran	26.8	6.4	ug/kg	
86-73-7	Fluorene	17.2	6.4	ug/kg	
	C1-Fluorenes	13.8	6.4	ug/kg	
	C2-Fluorenes	27.9	6.4	ug/kg	
	C3-Fluorenes	46.6	6.4	ug/kg	
132-65-0	Dibenzothiophene	10.5	6.4	ug/kg	
	C1-Dibenzothiophenes	19.8	6.4	ug/kg	
	C2-Dibenzothiophenes	32.4	6.4	ug/kg	
	C3-Dibenzothiophenes	30.0	6.4	ug/kg	
	C4-Dibenzothiophenes	38.9	6.4	ug/kg	
85-01-8	Phenanthrene	132	6.4	ug/kg	
120-12-7	Anthracene	55.4	6.4	ug/kg	
	C1-Phenanthrenes/Anthracene	91.0	6.4	ug/kg	
	C2-Phenanthrenes/Anthracene	81.1	6.4	ug/kg	
	C3-Phenanthrenes/Anthracene	47.1	6.4	ug/kg	
	C4-Phenanthrenes/Anthracene	25.9	6.4	ug/kg	
483-65-8	Retene	7.7	6.4	ug/kg	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	22.6	6.4	ug/kg	
206-44-0	Fluoranthene	310	6.4	ug/kg	
129-00-0	Pyrene	277	6.4	ug/kg	
	C1-Fluoranthenes/Pyrenes	140	6.4	ug/kg	
	C2-Fluoranthenes/Pyrenes	104	6.4	ug/kg	
	C3-Fluoranthenes/Pyrenes	57.9	6.4	ug/kg	
243-17-4	Benzo(b)fluorene	11.8	6.4	ug/kg	
205-12-9	Benzo(c)fluorene	ND	6.4	ug/kg	
3442-78-2	2-Methylpyrene	18.9	6.4	ug/kg	
3353-12-6	4-Methylpyrene	16.4	6.4	ug/kg	
2381-21-7	1-Methylpyrene	12.0	6.4	ug/kg	
56-55-3	Benzo(a)anthracene	171	6.4	ug/kg	
218-01-9	Chrysene	181	6.4	ug/kg	
	C1-Benzo(a)anthracenes/Chrys	83.7	6.4	ug/kg	
	C2-Benzo(a)anthracenes/Chrys	46.7	6.4	ug/kg	
	C3-Benzo(a)anthracenes/Chrys	42.8	6.4	ug/kg	
	C4-Benzo(a)anthracenes/Chrys	39.9	6.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	165	6.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	156	6.4	ug/kg	
192-97-2	Benzo(e)pyrene	140	6.4	ug/kg	
50-32-8	Benzo(a)pyrene	198	6.4	ug/kg	
198-55-0	Perylene	94.8	6.4	ug/kg	

ND = Not detected
 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

4.3
 4

Report of Analysis

Client Sample ID: SEEP-1-12-14"		Date Sampled: 05/27/14
Lab Sample ID: MC30898-3		Date Received: 05/28/14
Matrix: SO - Soil		Percent Solids: 60.1
Method: D5739-06/8270C SIM SW846 3570		
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
193-39-5	Indeno(1,2,3-cd)pyrene	113	6.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	42.4	6.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	139	6.4	ug/kg	
191-07-1	Coronene	36.2	6.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	75%		40-140%
1146-65-2	Naphthalene-d8	76%		40-140%
1517-22-2	Phenanthrene-d10	80%		40-140%
	Perylene-d12	82%		40-140%

ND = Not detected
 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

4.3
4

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID: SEEP-1-12-14"		
Lab Sample ID: MC30898-3		Date Sampled: 05/27/14
Matrix: SO - Soil		Date Received: 05/28/14
Method: ASTM D3328-06 SW846 3570		Percent Solids: 60.1
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44630.D	2	06/05/14	RP	06/02/14	OP38365	GBG1703
Run #2							

	Initial Weight	Final Volume
Run #1	5.19 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	198	64	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
84-15-1	o-Terphenyl	85%		40-140%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID: MW-26S		Date Sampled: 05/27/14
Lab Sample ID: MC30898-4		Date Received: 05/28/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: D5739-06/8270C SIM SW846 3511		
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z02557.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101
Run #2							

Run #	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.57	ug/l	B
	C1-Benzenes	ND	0.57	ug/l	
	C2-Benzenes	ND	0.57	ug/l	
	C3-Benzenes	ND	0.57	ug/l	
	C4-Benzenes	ND	0.57	ug/l	
	C5-Benzenes	ND	0.57	ug/l	
108-88-3	Toluene	ND	0.57	ug/l	B
100-41-4	Ethylbenzene	ND	0.57	ug/l	
	m,p-Xylene	ND	0.57	ug/l	B
100-42-5	Styrene	1.1	0.57	ug/l	B
95-47-6	o-Xylene	ND	0.57	ug/l	
98-82-8	Isopropylbenzene	ND	0.57	ug/l	
103-65-1	n-Propylbenzene	ND	0.57	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.57	ug/l	
526-73-8	1,2,3-Trimethylbenzene	ND	0.57	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.57	ug/l	
98-06-6	t-Butylbenzene	ND	0.57	ug/l	
135-98-8	sec-Butylbenzene	ND	0.57	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.57	ug/l	
104-51-8	n-Butylbenzene	ND	0.57	ug/l	
493-02-7	trans-Decalin	ND	0.57	ug/l	
493-01-6	cis-Decalin	ND	0.57	ug/l	
11095-43-5	Benzo(b)thiophene	ND	0.57	ug/l	
91-20-3	Naphthalene	ND	0.57	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.57	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.57	ug/l	
	C1-Naphthalenes	ND	0.57	ug/l	
	C2-Naphthalenes	ND	0.57	ug/l	
	C3-Naphthalenes	ND	0.57	ug/l	
	C4-Naphthalenes	ND	0.57	ug/l	
92-52-4	Biphenyl	ND	0.57	ug/l	
208-96-8	Acenaphthylene	ND	0.57	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 2 of 3

Client Sample ID: MW-26S		Date Sampled: 05/27/14
Lab Sample ID: MC30898-4		Date Received: 05/28/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: D5739-06/8270C SIM SW846 3511		
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.57	ug/l	
132-64-9	Dibenzofuran	ND	0.57	ug/l	
86-73-7	Fluorene	ND	0.57	ug/l	
	C1-Fluorenes	ND	0.57	ug/l	
	C2-Fluorenes	ND	0.57	ug/l	
	C3-Fluorenes	ND	0.57	ug/l	
132-65-0	Dibenzothiophene	ND	0.57	ug/l	
	C1-Dibenzothiophenes	ND	0.57	ug/l	
	C2-Dibenzothiophenes	ND	0.57	ug/l	
	C3-Dibenzothiophenes	ND	0.57	ug/l	
	C4-Dibenzothiophenes	ND	0.57	ug/l	
85-01-8	Phenanthrene	ND	0.57	ug/l	
120-12-7	Anthracene	ND	0.57	ug/l	
	C1-Phenanthrenes/Anthracene	ND	0.57	ug/l	
	C2-Phenanthrenes/Anthracene	ND	0.57	ug/l	
	C3-Phenanthrenes/Anthracene	ND	0.57	ug/l	
	C4-Phenanthrenes/Anthracene	ND	0.57	ug/l	
483-65-8	Retene	ND	0.57	ug/l	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	ND	0.57	ug/l	
206-44-0	Fluoranthene	ND	0.57	ug/l	
129-00-0	Pyrene	ND	0.57	ug/l	
	C1-Fluoranthenes/Pyrenes	ND	0.57	ug/l	
	C2-Fluoranthenes/Pyrenes	ND	0.57	ug/l	
	C3-Fluoranthenes/Pyrenes	ND	0.57	ug/l	
243-17-4	Benzo(b)fluorene	ND	0.57	ug/l	
205-12-9	Benzo(c)fluorene	ND	0.57	ug/l	
3442-78-2	2-Methylpyrene	ND	0.57	ug/l	
3353-12-6	4-Methylpyrene	ND	0.57	ug/l	
2381-21-7	1-Methylpyrene	ND	0.57	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.57	ug/l	
218-01-9	Chrysene	ND	0.57	ug/l	
	C1-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
	C2-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
	C3-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
	C4-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.57	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.57	ug/l	
192-97-2	Benzo(e)pyrene	ND	0.57	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.57	ug/l	
198-55-0	Perylene	ND	0.57	ug/l	

ND = Not detected

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-26S		Date Sampled: 05/27/14
Lab Sample ID: MC30898-4		Date Received: 05/28/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: D5739-06/8270C SIM SW846 3511		
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.57	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.57	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.57	ug/l	
191-07-1	Coronene	ND	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		40-140%
1146-65-2	Naphthalene-d8	93%		40-140%
1517-22-2	Phenanthrene-d10	101%		40-140%
	Perylene-d12	97%		40-140%

ND = Not detected
 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

4.4
4

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID: MW-26S		Date Sampled: 05/27/14
Lab Sample ID: MC30898-4		Date Received: 05/28/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: ASTM D3328-06 SW846 3511		
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44612.D	1	06/05/14	RP	06/03/14	OP38384	GBG1703
Run #2							

	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	5.7	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
84-15-1	o-Terphenyl	109%		40-140%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FED-EX Tracking # 804737357321
Accutest Job # MC30898
Accutest Quote #
Matrix Order Control #

Client / Reporting Information			Project Information						Requested Analysis (see TEST CODE sheet)										Matrix Codes																						
Company Name GEI Consultants, Inc			Project Name RGE West Station						MAH/PAH 12-14-14 8100 Excluded PAH Profile 8086										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																						
Street Address 90 B John Murray Dr			Street Falls St.																																						
City State Zip Amhurst NY 14228			City Rochester, NY																	Billing Information (if different from Report to)																					
Project Contact Rick Pippa			Company Name Same																	Street Address																					
E-mail rfrapp@geiconsultants.com			Project #						City											State											Zip										
Phone # 716 204 7156			Client PC#						Attention:											PO#																					
Sampler(s) Name(s) M. Cummings			Project Manager						LAB USE ONLY																																
Accutest Sample #	Field ID / Point of Collection	MEQMDI Val #	Collection			Matrix	# of bottles	Number of preserved Bottles									Matrix Codes																								
			Date	Time	Sampled By			HCl	MCP	HMDS	H2SO4	None	OI Water	MESH	ENCORE	Blankline																									
-1	SEEP-1		5/27/14	12:00	MRL	W	6	X																																	
-2	SEEP-1-0-3"			11:30	MRL	S	3																																		
-3	SEEP-1-12-14"			12:00	MRL	S	3																																		
-4	MW-265			14:00	MRL	W	6	3																																	

16BB, 413
IF,

Turnaround Time (Business days)		Approved By (Accutest PM): / Date:	Data Deliverable Information		Comments / Special Instructions
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink			<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULL T1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP	<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other	

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

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1 Michael Cummings	5/27 18:00	1	FEDX	5-28-14	2
3		3			4
5		5			4

Custody Seal # Intact Preserved where applicable On Ice Cooler Temp. **0,2 °C**

Accutest Job Number: MC30898 Client: GEI Immediate Client Services Action Required: No
 Date / Time Received: 5/28/2014 Delivery Method: Client Service Action Required at Login: No
 Project: RG E WEST STATION No. Coolers: 1 Airbill #'s:

<u>Cooler Security</u>	<u>Y or N</u>	<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/> <input type="checkbox"/>	4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. VOCs headspace free:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Condition of sample:			Intact

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2. Bottles received for unspecified tests:	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

Comments

5.1
5

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 3

Job Number: MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38366-MB	Z02526.D	1	06/05/14	SZ	06/02/14	OP38366	MSZ100

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-2, MC30898-3

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	2.5	4.0	ug/kg	J
	C1-Benzene	ND	4.0	ug/kg	
	C2-Benzenes	ND	4.0	ug/kg	
	C3-Benzenes	ND	4.0	ug/kg	
	C4-Benzenes	ND	4.0	ug/kg	
	C5-Benzenes	ND	4.0	ug/kg	
108-88-3	Toluene	ND	4.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	ug/kg	
	m,p-Xylene	ND	4.0	ug/kg	
100-42-5	Styrene	ND	4.0	ug/kg	
95-47-6	o-Xylene	ND	4.0	ug/kg	
98-82-8	Isopropylbenzene	ND	4.0	ug/kg	
103-65-1	n-Propylbenzene	ND	4.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.0	ug/kg	
526-73-8	1,2,3-Trimethylbenzene	ND	4.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.0	ug/kg	
98-06-6	t-Butylbenzene	ND	4.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.0	ug/kg	
104-51-8	n-Butylbenzene	ND	4.0	ug/kg	
493-02-7	trans-Decalin	ND	4.0	ug/kg	
493-01-6	cis-Decalin	ND	4.0	ug/kg	
11095-43-5	Benzo(b)thiophene	ND	4.0	ug/kg	
91-20-3	Naphthalene	ND	4.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	4.0	ug/kg	
90-12-0	1-Methylnaphthalene	ND	4.0	ug/kg	
	C1-Naphthalenes	ND	4.0	ug/kg	
	C2-Naphthalenes	ND	4.0	ug/kg	
	C3-Naphthalenes	ND	4.0	ug/kg	
	C4-Naphthalenes	ND	4.0	ug/kg	
92-52-4	Biphenyl	ND	4.0	ug/kg	
208-96-8	Acenaphthylene	ND	4.0	ug/kg	
83-32-9	Acenaphthene	ND	4.0	ug/kg	
132-64-9	Dibenzofuran	ND	4.0	ug/kg	
86-73-7	Fluorene	ND	4.0	ug/kg	
	C1-Fluorenes	ND	4.0	ug/kg	

6.1.1

6

Method Blank Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38366-MB	Z02526.D	1	06/05/14	SZ	06/02/14	OP38366	MSZ100

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-2, MC30898-3

CAS No.	Compound	Result	RL	Units	Q
	C2-Fluorenes	ND	4.0	ug/kg	
	C3-Fluorenes	ND	4.0	ug/kg	
132-65-0	Dibenzothiophene	ND	4.0	ug/kg	
	C1-Dibenzothiophenes	ND	4.0	ug/kg	
	C2-Dibenzothiophenes	ND	4.0	ug/kg	
	C3-Dibenzothiophenes	ND	4.0	ug/kg	
	C4-Dibenzothiophenes	ND	4.0	ug/kg	
85-01-8	Phenanthrene	ND	4.0	ug/kg	
120-12-7	Anthracene	ND	4.0	ug/kg	
	C1-Phenanthrenes/Anthracene	ND	4.0	ug/kg	
	C2-Phenanthrenes/Anthracene	ND	4.0	ug/kg	
	C3-Phenanthrenes/Anthracene	ND	4.0	ug/kg	
	C4-Phenanthrenes/Anthracene	ND	4.0	ug/kg	
483-65-8	Retene	ND	4.0	ug/kg	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	ND	4.0	ug/kg	
206-44-0	Fluoranthene	ND	4.0	ug/kg	
129-00-0	Pyrene	ND	4.0	ug/kg	
	C1-Fluoranthenes/Pyrenes	ND	4.0	ug/kg	
	C2-Fluoranthenes/Pyrenes	ND	4.0	ug/kg	
	C3-Fluoranthenes/Pyrenes	ND	4.0	ug/kg	
243-17-4	Benzo(b)fluorene	ND	4.0	ug/kg	
205-12-9	Benzo(c)fluorene	ND	4.0	ug/kg	
3442-78-2	2-Methylpyrene	ND	4.0	ug/kg	
3353-12-6	4-Methylpyrene	ND	4.0	ug/kg	
2381-21-7	1-Methylpyrene	ND	4.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	4.0	ug/kg	
218-01-9	Chrysene	ND	4.0	ug/kg	
	C1-Benzo(a)anthracenes/Chrys	ND	4.0	ug/kg	
	C2-Benzo(a)anthracenes/Chrys	ND	4.0	ug/kg	
	C3-Benzo(a)anthracenes/Chrys	ND	4.0	ug/kg	
	C4-Benzo(a)anthracenes/Chrys	ND	4.0	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4.0	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.0	ug/kg	
192-97-2	Benzo(e)pyrene	ND	4.0	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4.0	ug/kg	
198-55-0	Perylene	ND	4.0	ug/kg	

Method Blank Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38366-MB	Z02526.D	1	06/05/14	SZ	06/02/14	OP38366	MSZ100

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-2, MC30898-3

CAS No.	Compound	Result	RL	Units	Q
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.0	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	4.0	ug/kg	
191-07-1	Coronene	ND	4.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
2037-26-5	Toluene-D8	90%	40-140%
1146-65-2	Naphthalene-d8	79%	40-140%
1517-22-2	Phenanthrene-d10	86%	40-140%
	Perylene-d12	82%	40-140%

Method Blank Summary

Page 1 of 3

Job Number: MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38385-MB	Z02553.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-1, MC30898-4

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.58	0.57	ug/l	
	C1-Benzene	ND	0.57	ug/l	
	C2-Benzenes	ND	0.57	ug/l	
	C3-Benzenes	ND	0.57	ug/l	
	C4-Benzenes	ND	0.57	ug/l	
	C5-Benzenes	ND	0.57	ug/l	
108-88-3	Toluene	0.40	0.57	ug/l	J
100-41-4	Ethylbenzene	ND	0.57	ug/l	
	m,p-Xylene	0.43	0.57	ug/l	J
100-42-5	Styrene	1.9	0.57	ug/l	
95-47-6	o-Xylene	ND	0.57	ug/l	
98-82-8	Isopropylbenzene	ND	0.57	ug/l	
103-65-1	n-Propylbenzene	ND	0.57	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.57	ug/l	
526-73-8	1,2,3-Trimethylbenzene	ND	0.57	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.57	ug/l	
98-06-6	t-Butylbenzene	ND	0.57	ug/l	
135-98-8	sec-Butylbenzene	ND	0.57	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.57	ug/l	
104-51-8	n-Butylbenzene	ND	0.57	ug/l	
493-02-7	trans-Decalin	ND	0.57	ug/l	
493-01-6	cis-Decalin	ND	0.57	ug/l	
11095-43-5	Benzo(b)thiophene	ND	0.57	ug/l	
91-20-3	Naphthalene	ND	0.57	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.57	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.57	ug/l	
	C1-Naphthalenes	ND	0.57	ug/l	
	C2-Naphthalenes	ND	0.57	ug/l	
	C3-Naphthalenes	ND	0.57	ug/l	
	C4-Naphthalenes	ND	0.57	ug/l	
92-52-4	Biphenyl	ND	0.57	ug/l	
208-96-8	Acenaphthylene	ND	0.57	ug/l	
83-32-9	Acenaphthene	ND	0.57	ug/l	
132-64-9	Dibenzofuran	ND	0.57	ug/l	
86-73-7	Fluorene	ND	0.57	ug/l	
	C1-Fluorenes	ND	0.57	ug/l	

6.1.2

6

Method Blank Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38385-MB	Z02553.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-1, MC30898-4

CAS No.	Compound	Result	RL	Units	Q
	C2-Fluorenes	ND	0.57	ug/l	
	C3-Fluorenes	ND	0.57	ug/l	
132-65-0	Dibenzothiophene	ND	0.57	ug/l	
	C1-Dibenzothiophenes	ND	0.57	ug/l	
	C2-Dibenzothiophenes	ND	0.57	ug/l	
	C3-Dibenzothiophenes	ND	0.57	ug/l	
	C4-Dibenzothiophenes	ND	0.57	ug/l	
85-01-8	Phenanthrene	ND	0.57	ug/l	
120-12-7	Anthracene	ND	0.57	ug/l	
	C1-Phenanthrenes/Anthracene	ND	0.57	ug/l	
	C2-Phenanthrenes/Anthracene	ND	0.57	ug/l	
	C3-Phenanthrenes/Anthracene	ND	0.57	ug/l	
	C4-Phenanthrenes/Anthracene	ND	0.57	ug/l	
483-65-8	Retene	ND	0.57	ug/l	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	ND	0.57	ug/l	
206-44-0	Fluoranthene	ND	0.57	ug/l	
129-00-0	Pyrene	ND	0.57	ug/l	
	C1-Fluoranthenes/Pyrenes	ND	0.57	ug/l	
	C2-Fluoranthenes/Pyrenes	ND	0.57	ug/l	
	C3-Fluoranthenes/Pyrenes	ND	0.57	ug/l	
243-17-4	Benzo(b)fluorene	ND	0.57	ug/l	
205-12-9	Benzo(c)fluorene	ND	0.57	ug/l	
3442-78-2	2-Methylpyrene	ND	0.57	ug/l	
3353-12-6	4-Methylpyrene	ND	0.57	ug/l	
2381-21-7	1-Methylpyrene	ND	0.57	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.57	ug/l	
218-01-9	Chrysene	ND	0.57	ug/l	
	C1-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
	C2-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
	C3-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
	C4-Benzo(a)anthracenes/Chrys	ND	0.57	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.57	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.57	ug/l	
192-97-2	Benzo(e)pyrene	ND	0.57	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.57	ug/l	
198-55-0	Perylene	ND	0.57	ug/l	

Method Blank Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38385-MB	Z02553.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-1, MC30898-4

CAS No.	Compound	Result	RL	Units	Q
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.57	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.57	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.57	ug/l	
191-07-1	Coronene	ND	0.57	ug/l	

CAS No.	Surrogate Recoveries	Limits	
2037-26-5	Toluene-D8	98%	40-140%
1146-65-2	Naphthalene-d8	90%	40-140%
1517-22-2	Phenanthrene-d10	98%	40-140%
	Perylene-d12	99%	40-140%

Blank Spike Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38366-BS2	Z02527.D	1	06/05/14	SZ	06/02/14	OP38366	MSZ100

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-2, MC30898-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	2000	855	43* ^a	50-150
	C1-Benzene		ND		50-150 ^b
	C2-Benzenes		ND		50-150 ^b
	C3-Benzenes		ND		50-150 ^b
	C4-Benzenes		ND		50-150 ^b
	C5-Benzenes		ND		50-150 ^b
108-88-3	Toluene	2000	1450	73	50-150
100-41-4	Ethylbenzene	2000	1760	88	50-150
	m,p-Xylene	2000	1770	89	50-150
100-42-5	Styrene	2000	1710	86	50-150
95-47-6	o-Xylene	2000	1730	87	50-150
98-82-8	Isopropylbenzene	2000	1740	87	50-150
103-65-1	n-Propylbenzene	2000	1910	96	50-150
108-67-8	1,3,5-Trimethylbenzene	2000	1770	89	50-150
526-73-8	1,2,3-Trimethylbenzene	2000	1790	90	50-150
95-63-6	1,2,4-Trimethylbenzene	2000	1880	94	50-150
98-06-6	t-Butylbenzene	2000	1760	88	50-150
135-98-8	sec-Butylbenzene	2000	1780	89	50-150
99-87-6	p-Isopropyltoluene	2000	1820	91	50-150
104-51-8	n-Butylbenzene	2000	1970	99	50-150
493-02-7	trans-Decalin	2000	1660	83	50-150
493-01-6	cis-Decalin	2000	1680	84	50-150
11095-43-5	Benzo(b)thiophene	2000	1930	97	50-150
91-20-3	Naphthalene	2000	1920	96	50-150
91-57-6	2-Methylnaphthalene	2000	1940	97	50-150
90-12-0	1-Methylnaphthalene	2000	1790	90	50-150
	C1-Naphthalenes		ND		50-150 ^b
	C2-Naphthalenes		ND		50-150 ^b
	C3-Naphthalenes		ND		50-150 ^b
	C4-Naphthalenes		ND		50-150 ^b
92-52-4	Biphenyl	2000	1930	97	50-150
208-96-8	Acenaphthylene	2000	1970	99	50-150
83-32-9	Acenaphthene	2000	1860	93	50-150
132-64-9	Dibenzofuran	2000	2010	101	50-150
86-73-7	Fluorene	2000	2020	101	50-150
	C1-Fluorenes		ND		50-150 ^b

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC30898
Account: METAMAW META Environmental, Inc.
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38366-BS2	Z02527.D	1	06/05/14	SZ	06/02/14	OP38366	MSZ100

The QC reported here applies to the following samples:

Method: D5739-06/8270C SIM

MC30898-2, MC30898-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	C2-Fluorenes		ND		50-150 ^b
	C3-Fluorenes		ND		50-150 ^b
132-65-0	Dibenzothiophene	2000	1980	99	50-150
	C1-Dibenzothiophenes		ND		50-150 ^b
	C2-Dibenzothiophenes		ND		50-150 ^b
	C3-Dibenzothiophenes		ND		50-150 ^b
	C4-Dibenzothiophenes		ND		50-150 ^b
85-01-8	Phenanthrene	2000	2010	101	50-150
120-12-7	Anthracene	2000	1960	98	50-150
	C1-Phenanthrenes/Anthracene		ND		50-150 ^b
	C2-Phenanthrenes/Anthracene		ND		50-150 ^b
	C3-Phenanthrenes/Anthracene		ND		50-150 ^b
	C4-Phenanthrenes/Anthracene		ND		50-150 ^b
483-65-8	Retene	2000	2160	108	50-150
239-35-0	Benzo(b)naphtho(2,1-d)thioph	2000	2080	104	50-150
206-44-0	Fluoranthene	2000	2120	106	50-150
129-00-0	Pyrene	2000	2070	104	50-150
	C1-Fluoranthenes/Pyrenes		ND		50-150 ^b
	C2-Fluoranthenes/Pyrenes		ND		50-150 ^b
	C3-Fluoranthenes/Pyrenes		ND		50-150 ^b
243-17-4	Benzo(b)fluorene		ND		50-150 ^b
205-12-9	Benzo(c)fluorene		ND		50-150 ^b
3442-78-2	2-Methylpyrene		ND		50-150 ^b
3353-12-6	4-Methylpyrene		ND		50-150 ^b
2381-21-7	1-Methylpyrene		ND		50-150 ^b
56-55-3	Benzo(a)anthracene	2000	2210	111	50-150
218-01-9	Chrysene	2000	2000	100	50-150
	C1-Benzo(a)anthracenes/Chrys		ND		50-150 ^b
	C2-Benzo(a)anthracenes/Chrys		ND		50-150 ^b
	C3-Benzo(a)anthracenes/Chrys		ND		50-150 ^b
	C4-Benzo(a)anthracenes/Chrys		ND		50-150 ^b
205-99-2	Benzo(b)fluoranthene	2000	2150	108	50-150
207-08-9	Benzo(k)fluoranthene	2000	2000	100	50-150
192-97-2	Benzo(e)pyrene	2000	1980	99	50-150
50-32-8	Benzo(a)pyrene	2000	2090	105	50-150
198-55-0	Perylene	2000	2020	101	50-150

* = Outside of Control Limits.

Blank Spike Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38366-BS2	Z02527.D	1	06/05/14	SZ	06/02/14	OP38366	MSZ100

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-2, MC30898-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
193-39-5	Indeno(1,2,3-cd)pyrene	2000	2070	104	50-150
53-70-3	Dibenzo(a,h)anthracene	2000	2120	106	50-150
191-24-2	Benzo(g,h,i)perylene	2000	1970	99	50-150
191-07-1	Coronene	2000	1930	97	50-150 ^b

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	79%	40-140%
1146-65-2	Naphthalene-d8	88%	40-140%
1517-22-2	Phenanthrene-d10	95%	40-140%
	Perylene-d12	89%	40-140%

(a) Outside control limits. Meets program technical requirements.

(b) Advisory control limits.

* = Outside of Control Limits.

Blank Spike Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38385-BS2	Z02554.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-1, MC30898-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	286	244	85	50-150
	C1-Benzene		ND		50-150 ^a
	C2-Benzenes		ND		50-150 ^a
	C3-Benzenes		ND		50-150 ^a
	C4-Benzenes		ND		50-150 ^a
	C5-Benzenes		ND		50-150 ^a
108-88-3	Toluene	286	281	98	50-150
100-41-4	Ethylbenzene	286	317	111	50-150
	m,p-Xylene	286	322	113	50-150
100-42-5	Styrene	286	334	117	50-150
95-47-6	o-Xylene	286	307	107	50-150
98-82-8	Isopropylbenzene	286	310	108	50-150
103-65-1	n-Propylbenzene	286	341	119	50-150
108-67-8	1,3,5-Trimethylbenzene	286	311	109	50-150
526-73-8	1,2,3-Trimethylbenzene	286	314	110	50-150
95-63-6	1,2,4-Trimethylbenzene	286	331	116	50-150
98-06-6	t-Butylbenzene	286	307	107	50-150
135-98-8	sec-Butylbenzene	286	312	109	50-150
99-87-6	p-Isopropyltoluene	286	319	112	50-150
104-51-8	n-Butylbenzene	286	352	123	50-150
493-02-7	trans-Decalin	286	296	104	50-150
493-01-6	cis-Decalin	286	297	104	50-150
11095-43-5	Benzo(b)thiophene	286	345	121	50-150
91-20-3	Naphthalene	286	336	118	50-150
91-57-6	2-Methylnaphthalene	286	342	120	50-150
90-12-0	1-Methylnaphthalene	286	316	111	50-150
	C1-Naphthalenes		ND		50-150 ^a
	C2-Naphthalenes		ND		50-150 ^a
	C3-Naphthalenes		ND		50-150 ^a
	C4-Naphthalenes		ND		50-150 ^a
92-52-4	Biphenyl	286	339	119	50-150
208-96-8	Acenaphthylene	286	353	124	50-150
83-32-9	Acenaphthene	286	324	113	50-150
132-64-9	Dibenzofuran	286	352	123	50-150
86-73-7	Fluorene	286	358	125	50-150
	C1-Fluorenes		ND		50-150 ^a

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC30898
Account: METAMAW META Environmental, Inc.
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38385-BS2	Z02554.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101

The QC reported here applies to the following samples:

Method: D5739-06/8270C SIM

MC30898-1, MC30898-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
	C2-Fluorenes		ND		50-150 ^a
	C3-Fluorenes		ND		50-150 ^a
132-65-0	Dibenzothiophene	286	346	121	50-150
	C1-Dibenzothiophenes		ND		50-150 ^a
	C2-Dibenzothiophenes		ND		50-150 ^a
	C3-Dibenzothiophenes		ND		50-150 ^a
	C4-Dibenzothiophenes		ND		50-150 ^a
85-01-8	Phenanthrene	286	344	120	50-150
120-12-7	Anthracene	286	343	120	50-150
	C1-Phenanthrenes/Anthracene		ND		50-150 ^a
	C2-Phenanthrenes/Anthracene		ND		50-150 ^a
	C3-Phenanthrenes/Anthracene		ND		50-150 ^a
	C4-Phenanthrenes/Anthracene		ND		50-150 ^a
483-65-8	Retene	286	376	132	50-150
239-35-0	Benzo(b)naphtho(2,1-d)thioph	286	361	126	50-150
206-44-0	Fluoranthene	286	368	129	50-150
129-00-0	Pyrene	286	360	126	50-150
	C1-Fluoranthenes/Pyrenes		ND		50-150 ^a
	C2-Fluoranthenes/Pyrenes		ND		50-150 ^a
	C3-Fluoranthenes/Pyrenes		ND		50-150 ^a
243-17-4	Benzo(b)fluorene		ND		50-150 ^a
205-12-9	Benzo(c)fluorene		ND		50-150 ^a
3442-78-2	2-Methylpyrene		ND		50-150 ^a
3353-12-6	4-Methylpyrene		ND		50-150 ^a
2381-21-7	1-Methylpyrene		ND		50-150 ^a
56-55-3	Benzo(a)anthracene	286	382	134	50-150
218-01-9	Chrysene	286	345	121	50-150
	C1-Benzo(a)anthracenes/Chrys		ND		50-150 ^a
	C2-Benzo(a)anthracenes/Chrys		ND		50-150 ^a
	C3-Benzo(a)anthracenes/Chrys		ND		50-150 ^a
	C4-Benzo(a)anthracenes/Chrys		ND		50-150 ^a
205-99-2	Benzo(b)fluoranthene	286	371	130	50-150
207-08-9	Benzo(k)fluoranthene	286	334	117	50-150
192-97-2	Benzo(e)pyrene	286	336	118	50-150
50-32-8	Benzo(a)pyrene	286	361	126	50-150
198-55-0	Perylene	286	352	123	50-150

* = Outside of Control Limits.

Blank Spike Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38385-BS2	Z02554.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-1, MC30898-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
193-39-5	Indeno(1,2,3-cd)pyrene	286	345	121	50-150
53-70-3	Dibenzo(a,h)anthracene	286	355	124	50-150
191-24-2	Benzo(g,h,i)perylene	286	332	116	50-150
191-07-1	Coronene	286	308	108	50-150 ^a

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	101%	40-140%
1146-65-2	Naphthalene-d8	103%	40-140%
1517-22-2	Phenanthrene-d10	108%	40-140%
	Perylene-d12	101%	40-140%

(a) Advisory control limits.

* = Outside of Control Limits.

Duplicate Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38366-DUP8	Z02547.D	1	06/06/14	SZ	06/02/14	OP38366	MSZ101
MC30898-2	Z02548.D	1	06/06/14	SZ	06/02/14	OP38366	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-2, MC30898-3

CAS No.	Compound	MC30898-2 DUP		Q	RPD	Limits
		ug/kg	Q ug/kg			
71-43-2	Benzene	22.9	B 29.7		26	30
	C1-Benzene	27.2	34.5		24	30 ^a
	C2-Benzenes	45.5	57.6		23	30 ^a
	C3-Benzenes	25.9	35.1		30	30 ^a
	C4-Benzenes	26.1	33.3		24	30 ^a
	C5-Benzenes	22.4	26.0		15	30 ^a
108-88-3	Toluene	43.6	53.6		21	30
100-41-4	Ethylbenzene	8.3	11.4		31* ^b	30
	m,p-Xylene	70.2	92.1		27	30
100-42-5	Styrene	51.4	54.8		6	30
95-47-6	o-Xylene	13.8	21.4		43* ^b	30
98-82-8	Isopropylbenzene	3.1	4.1	J	28	30
103-65-1	n-Propylbenzene	5.2	7.3		34* ^b	30
108-67-8	1,3,5-Trimethylbenzene	5.3	7.7		37* ^b	30
526-73-8	1,2,3-Trimethylbenzene	5.8	8.7		40* ^b	30
95-63-6	1,2,4-Trimethylbenzene	13.2	20.7		44* ^b	30
98-06-6	t-Butylbenzene	ND	ND		nc	30
135-98-8	sec-Butylbenzene	ND	ND		nc	30
99-87-6	p-Isopropyltoluene	3.0	3.7	J	21	30
104-51-8	n-Butylbenzene	6.3	9.2		37* ^b	30
493-02-7	trans-Decalin	ND	3.2	J	200* ^c	30
493-01-6	cis-Decalin	ND	ND		nc	30
11095-43-5	Benzo(b)thiophene	38.8	57.9		40* ^b	30
91-20-3	Naphthalene	34.1	41.4		19	30
91-57-6	2-Methylnaphthalene	26.0	38.8		40* ^b	30
90-12-0	1-Methylnaphthalene	24.8	33.4		30	30
	C1-Naphthalenes	35.5	46.0		26	30 ^a
	C2-Naphthalenes	44.7	52.7		16	30 ^a
	C3-Naphthalenes	36.7	48.0		27	30 ^a
	C4-Naphthalenes	24.2	28.2		15	30 ^a
92-52-4	Biphenyl	9.4	11.1		17	30
208-96-8	Acenaphthylene	50.1	51.2		2	30
83-32-9	Acenaphthene	37.7	35.8		5	30
132-64-9	Dibenzofuran	24.7	25.8		4	30
86-73-7	Fluorene	23.1	14.5		46* ^b	30
	C1-Fluorenes	13.9	12.5		11	30 ^a

* = Outside of Control Limits.

Duplicate Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38366-DUP8	Z02547.D	1	06/06/14	SZ	06/02/14	OP38366	MSZ101
MC30898-2	Z02548.D	1	06/06/14	SZ	06/02/14	OP38366	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-2, MC30898-3

CAS No.	Compound	MC30898-2 DUP		Q	RPD	Limits
		ug/kg	ug/kg			
	C2-Fluorenes	18.8	24.0		24	30 ^a
	C3-Fluorenes	34.1	43.8		25	30 ^a
132-65-0	Dibenzothiophene	12.4	9.7		24	30
	C1-Dibenzothiophenes	15.4	16.7		8	30 ^a
	C2-Dibenzothiophenes	24.1	26.7		10	30 ^a
	C3-Dibenzothiophenes	23.9	29.8		22	30 ^a
	C4-Dibenzothiophenes	47.0	52.0		10	30 ^a
85-01-8	Phenanthrene	156	110		35* b	30
120-12-7	Anthracene	55.2	45.3		20	30
	C1-Phenanthrenes/Anthracene	72.4	74.6		3	30 ^a
	C2-Phenanthrenes/Anthracene	45.1	56.0		22	30 ^a
	C3-Phenanthrenes/Anthracene	30.0	36.4		19	30 ^a
	C4-Phenanthrenes/Anthracene	22.9	31.4		31* b	30 ^a
483-65-8	Retene	6.6	8.9		30	30
239-35-0	Benzo(b)naphtho(2,1-d)thioph	15.0	18.9		23	30
206-44-0	Fluoranthene	273	263		4	30
129-00-0	Pyrene	257	251		2	30
	C1-Fluoranthenes/Pyrenes	108	117		8	30 ^a
	C2-Fluoranthenes/Pyrenes	63.9	80.5		23	30 ^a
	C3-Fluoranthenes/Pyrenes	37.7	52.5		33* b	30 ^a
243-17-4	Benzo(b)fluorene	11.3	7.8		37* b	30 ^a
205-12-9	Benzo(c)fluorene	7.4	5.8		24	30 ^a
3442-78-2	2-Methylpyrene	12.5	14.2		13	30 ^a
3353-12-6	4-Methylpyrene	12.2	13.7		12	30 ^a
2381-21-7	1-Methylpyrene	9.4	9.6		2	30 ^a
56-55-3	Benzo(a)anthracene	119	128		7	30
218-01-9	Chrysene	126	148		16	30
	C1-Benzo(a)anthracenes/Chrys	53.6	63.0		16	30 ^a
	C2-Benzo(a)anthracenes/Chrys	26.7	36.0		30	30 ^a
	C3-Benzo(a)anthracenes/Chrys	30.0	40.8		31* b	30 ^a
	C4-Benzo(a)anthracenes/Chrys	17.6	19.6		11	30 ^a
205-99-2	Benzo(b)fluoranthene	120	151		23	30
207-08-9	Benzo(k)fluoranthene	107	129		19	30
192-97-2	Benzo(e)pyrene	99.2	121		20	30
50-32-8	Benzo(a)pyrene	145	160		10	30
198-55-0	Perylene	76.0	74.2		2	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC30898
Account: METAMAW META Environmental, Inc.
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38366-DUP8	Z02547.D	1	06/06/14	SZ	06/02/14	OP38366	MSZ101
MC30898-2	Z02548.D	1	06/06/14	SZ	06/02/14	OP38366	MSZ101

The QC reported here applies to the following samples:

Method: D5739-06/8270C SIM

MC30898-2, MC30898-3

CAS No.	Compound	MC30898-2		Q	RPD	Limits
		DUP ug/kg	DUP ug/kg			
193-39-5	Indeno(1,2,3-cd)pyrene	82.9	101		20	30
53-70-3	Dibenzo(a,h)anthracene	27.7	34.2		21	30
191-24-2	Benzo(g,h,i)perylene	96.7	119		21	30
191-07-1	Coronene	25.8	34.9		30	30 ^a

CAS No.	Surrogate Recoveries	DUP	MC30898-2	Limits
2037-26-5	Toluene-D8	70%	65%	40-140%
1146-65-2	Naphthalene-d8	71%	67%	40-140%
1517-22-2	Phenanthrene-d10	75%	71%	40-140%
	Perylene-d12	79%	73%	40-140%

- (a) Advisory control limits.
(b) High RPD due to possible sample heterogeneity.
(c) High RPD due to sample levels below reporting limit.

* = Outside of Control Limits.

Duplicate Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38385-DUP	Z02555.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101
MC30898-1	Z02556.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-1, MC30898-4

CAS No.	Compound	MC30898-1 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
71-43-2	Benzene	0.54	B 0.49	JB	10	30
	C1-Benzene	ND	ND		nc	30 ^a
	C2-Benzenes	1.9	1.8		5	30 ^a
	C3-Benzenes	1.6	1.5		6	30 ^a
	C4-Benzenes	1.5	1.6		6	30 ^a
	C5-Benzenes	ND	ND		nc	30 ^a
108-88-3	Toluene	0.31	B 0.38	JB	20	30
100-41-4	Ethylbenzene	ND	ND		nc	30
	m,p-Xylene	0.88	B 0.93	B	6	30
100-42-5	Styrene	1.3	B 1.4	B	7	30
95-47-6	o-Xylene	2.4	2.5		4	30
98-82-8	Isopropylbenzene	ND	ND		nc	30
103-65-1	n-Propylbenzene	ND	ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND	ND		nc	30
526-73-8	1,2,3-Trimethylbenzene	0.43	0.48	J	11	30
95-63-6	1,2,4-Trimethylbenzene	ND	0.29	J	200* ^b	30
98-06-6	t-Butylbenzene	ND	ND		nc	30
135-98-8	sec-Butylbenzene	ND	ND		nc	30
99-87-6	p-Isopropyltoluene	ND	ND		nc	30
104-51-8	n-Butylbenzene	ND	ND		nc	30
493-02-7	trans-Decalin	ND	ND		nc	30
493-01-6	cis-Decalin	ND	ND		nc	30
11095-43-5	Benzo(b)thiophene	2.9	3.5		19	30
91-20-3	Naphthalene	ND	ND		nc	30
91-57-6	2-Methylnaphthalene	ND	ND		nc	30
90-12-0	1-Methylnaphthalene	0.35	0.49	J	33* ^c	30
	C1-Naphthalenes	0.35	0.52	J	39* ^c	30 ^a
	C2-Naphthalenes	0.92	0.92		0	30 ^a
	C3-Naphthalenes	0.38	0.31	J	20	30 ^a
	C4-Naphthalenes	ND	ND		nc	30 ^a
92-52-4	Biphenyl	ND	ND		nc	30
208-96-8	Acenaphthylene	ND	0.43	J	200* ^b	30
83-32-9	Acenaphthene	0.74	0.98		28	30
132-64-9	Dibenzofuran	ND	0.39	J	200* ^b	30
86-73-7	Fluorene	ND	0.41	J	200* ^b	30
	C1-Fluorenes	ND	ND		nc	30 ^a

* = Outside of Control Limits.

Duplicate Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38385-DUP	Z02555.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101
MC30898-1	Z02556.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-1, MC30898-4

CAS No.	Compound	MC30898-1 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
	C2-Fluorenes	ND	ND		nc	30 ^a
	C3-Fluorenes	ND	ND		nc	30 ^a
132-65-0	Dibenzothiophene	ND	0.35	J	200* ^b	30
	C1-Dibenzothiophenes	ND	ND		nc	30 ^a
	C2-Dibenzothiophenes	ND	0.35	J	200* ^b	30 ^a
	C3-Dibenzothiophenes	ND	ND		nc	30 ^a
	C4-Dibenzothiophenes	ND	ND		nc	30 ^a
85-01-8	Phenanthrene	ND	0.37	J	200* ^b	30
120-12-7	Anthracene	ND	ND		nc	30
	C1-Phenanthrenes/Anthracene	ND	ND		nc	30 ^a
	C2-Phenanthrenes/Anthracene	ND	ND		nc	30 ^a
	C3-Phenanthrenes/Anthracene	ND	ND		nc	30 ^a
	C4-Phenanthrenes/Anthracene	ND	ND		nc	30 ^a
483-65-8	Retene	ND	ND		nc	30
239-35-0	Benzo(b)naphtho(2,1-d)thioph	ND	0.33	J	200* ^b	30
206-44-0	Fluoranthene	ND	0.37	J	200* ^b	30
129-00-0	Pyrene	ND	0.35	J	200* ^b	30
	C1-Fluoranthenes/Pyrenes	ND	ND		nc	30 ^a
	C2-Fluoranthenes/Pyrenes	ND	ND		nc	30 ^a
	C3-Fluoranthenes/Pyrenes	ND	ND		nc	30 ^a
243-17-4	Benzo(b)fluorene	ND	ND		nc	30 ^a
205-12-9	Benzo(c)fluorene	ND	ND		nc	30 ^a
3442-78-2	2-Methylpyrene	ND	ND		nc	30 ^a
3353-12-6	4-Methylpyrene	ND	ND		nc	30 ^a
2381-21-7	1-Methylpyrene	ND	ND		nc	30 ^a
56-55-3	Benzo(a)anthracene	ND	0.33	J	200* ^b	30
218-01-9	Chrysene	ND	0.36	J	200* ^b	30
	C1-Benzo(a)anthracenes/Chrys	ND	ND		nc	30 ^a
	C2-Benzo(a)anthracenes/Chrys	ND	ND		nc	30 ^a
	C3-Benzo(a)anthracenes/Chrys	ND	ND		nc	30 ^a
	C4-Benzo(a)anthracenes/Chrys	ND	ND		nc	30 ^a
205-99-2	Benzo(b)fluoranthene	ND	0.36	J	200* ^b	30
207-08-9	Benzo(k)fluoranthene	ND	0.41	J	200* ^b	30
192-97-2	Benzo(e)pyrene	ND	0.42	J	200* ^b	30
50-32-8	Benzo(a)pyrene	ND	0.47	J	200* ^b	30
198-55-0	Perylene	ND	0.43	J	200* ^b	30

* = Outside of Control Limits.

Duplicate Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38385-DUP	Z02555.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101
MC30898-1	Z02556.D	1	06/06/14	SZ	06/03/14	OP38385	MSZ101

The QC reported here applies to the following samples:**Method:** D5739-06/8270C SIM

MC30898-1, MC30898-4

CAS No.	Compound	MC30898-1		Q	RPD	Limits
		DUP ug/l	DUP ug/l			
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.45	J	200* ^b	30
53-70-3	Dibenzo(a,h)anthracene	ND	0.48	J	200* ^b	30
191-24-2	Benzo(g,h,i)perylene	ND	0.60		200* ^b	30
191-07-1	Coronene	ND	1.0		200* ^b	30 ^a

CAS No.	Surrogate Recoveries	DUP	MC30898-1	Limits
2037-26-5	Toluene-D8	105%	108%	40-140%
1146-65-2	Naphthalene-d8	98%	97%	40-140%
1517-22-2	Phenanthrene-d10	103%	103%	40-140%
	Perylene-d12	102%	100%	40-140%

(a) Advisory control limits.

(b) High RPD due to sample levels below reporting limit.

(c) High RPD due to possible sample heterogeneity.

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC30898

Account: METAMAW META Environmental, Inc.

Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY

Method: D5739-06/8270C SIM

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
MC30898-1	Z02556.D	108	97	103	100
MC30898-4	Z02557.D	106	93	101	97
OP38385-BS2	Z02554.D	101	103	108	101
OP38385-DUP	Z02555.D	105	98	103	102
OP38385-MB	Z02553.D	98	90	98	99

Surrogate Compounds

Recovery Limits

S1 = Toluene-D8	40-140%
S2 = Naphthalene-d8	40-140%
S3 = Phenanthrene-d10	40-140%
S4 = Perylene-d12	40-140%

Semivolatile Surrogate Recovery Summary

Job Number: MC30898

Account: METAMAW META Environmental, Inc.

Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY

Method: D5739-06/8270C SIM

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
MC30898-2	Z02548.D	65	67	71	73
MC30898-3	Z02549.D	75	76	80	82
OP38366-BS2	Z02527.D	79	88	95	89
OP38366-DUP8	Z02547.D	70	71	75	79
OP38366-MB	Z02526.D	90	79	86	82

Surrogate Compounds

Recovery Limits

S1 = Toluene-D8	40-140%
S2 = Naphthalene-d8	40-140%
S3 = Phenanthrene-d10	40-140%
S4 = Perylene-d12	40-140%

GC/MS Semi-volatiles

Raw Data

7

Manual Integrations
 APPROVED
 125 of 285
 (compounds with "m" flag)
 James Roush
 06/13/14 15:51

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02556.D
 Sample : mc30898-1
 Misc : op38385,msz101,35,,,2,1
 ALS Vial : 13 Sample Multiplier: 1
 Acq On : 6 Jun 2014 8:32 pm

Operator: sofyaz

Quant Time: Jun 10 10:36:15 2014
 Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M
 Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Acenaphthene-d10	27.929	164	111505	1000.00	ng/mL	-0.02	
System Monitoring Compounds							
2) Toluene-d8	9.092	98	128760	1079.52	ng/mL	0.00	
Spiked Amount	1000.000		Recovery	=	107.95%		
3) Naphthalene-d8	20.992	136	203634	965.04	ng/mL	0.00	
Spiked Amount	1000.000		Recovery	=	96.50%		
4) Phenanthrene-d10	33.785	188	188844	1034.48	ng/mL	-0.03	
Spiked Amount	1000.000		Recovery	=	103.45%		
5) Perylene-d12	49.685	264	160868	1003.16	ng/mL	-0.05	
Spiked Amount	1000.000		Recovery	=	100.32%		
Target Compounds							
							Qvalue
7) Benzene	6.657	78	1566m	9.52	ng/mL		
8) C1-Benzene	9.214	92	647	3.93	ng/mL		86
9) C2-Benzenes	12.895	106	5415m	32.90	ng/mL		
10) C3-Benzenes	15.431	120	4465m	27.13	ng/mL		
11) C4-Benzenes	19.191	134	4233m	25.72	ng/mL		
14) Toluene	9.214	91	970	5.43	ng/mL		89
15) Ethylbenzene	11.973	91	608	3.30	ng/mL#		44
16) m,p-xylene	12.225	91	2157	15.34	ng/mL		95
17) Styrene	12.881	104	2364	22.88	ng/mL#		73
18) o-Xylene	12.895	91	6400	42.37	ng/mL		97
23) 1,2,4-Trimethylbenzene	15.841	105	576	3.74	ng/mL		87
25) 1,2,3-Trimethylbenzene	16.655	105	1295	7.58	ng/mL		94
34) Benzo(b)thiophene	21.306	134	10189	50.84	ng/mL#		83
44) Naphthalene	21.058	128	568m	2.26	ng/mL		
45) 2-Methylnaphthalene	23.805	142	402	2.57	ng/mL#		79
46) 1-Methylnaphthalene	24.201	142	1028	6.07	ng/mL		94
47) C1-Naphthalenes	24.201	142	1560m	6.20	ng/mL		
48) C2-Naphthalenes	26.617	156	4036m	16.05	ng/mL		
49) C3-Naphthalenes	29.274	170	1678m	6.67	ng/mL		
52) Acenaphthylene	27.343	152	860	3.54	ng/mL#		67
53) Acenaphthene	28.058	154	1977	13.00	ng/mL		99
54) Dibenzofuran	28.763	168	521	2.47	ng/mL#		67
55) Fluorene	30.110	166	582	3.42	ng/mL#		71
59) Dibenzothiophene	33.408	184	232	0.98	ng/mL#		75
60) C1-Dibenzothiophenes (...)	35.586	198	14256m	60.21	ng/mL		
61) C1-Dibenzothiophenes (...)	35.586	198	13388	56.54	ng/mL#		1
65) Phenanthrene	33.875	178	431	1.69	ng/mL#		64
66) Anthracene	34.086	178	235	0.96	ng/mL#		64
78) Fluoranthene	38.688	202	365	1.47	ng/mL#		63
79) Pyrene	39.547	202	299	1.15	ng/mL#		59
96) Benzo(e)pyrene	49.342	252	276	1.14	ng/mL#		61
97) Benzo(a)pyrene	49.517	252	305	1.41	ng/mL#		56
98) Perylene	49.781	252	202	0.94	ng/mL#		54
99) Indeno(1,2,3-cd)pyrene	53.119	276	432	1.56	ng/mL#		45
100) Dibenz(a,h)anthracene	53.157	278	314m	1.28	ng/mL		
101) Benzo(g,h,i)perylene	53.924	276	433	1.55	ng/mL#		52
102) Coronene	59.927	300	844	3.16	ng/mL#		49
103) C-17	31.769	85	499	10.90	ng/mL#		64
104) Pristane	31.769	85	499	14.57	ng/mL#		67
105) C-18	33.568	85	453	9.95	ng/mL#		62

7.1.1
7

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02556.D

Sample : mc30898-1

Misc : op38385,msz101,35,,,2,1

ALS Vial : 13 Sample Multiplier: 1

Acq On : 6 Jun 2014 8:32 pm

Operator: sofyaz

Quant Time: Jun 10 10:36:15 2014

Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M

Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) Phytane	33.785	85	275	6.09	ng/mL#	68

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

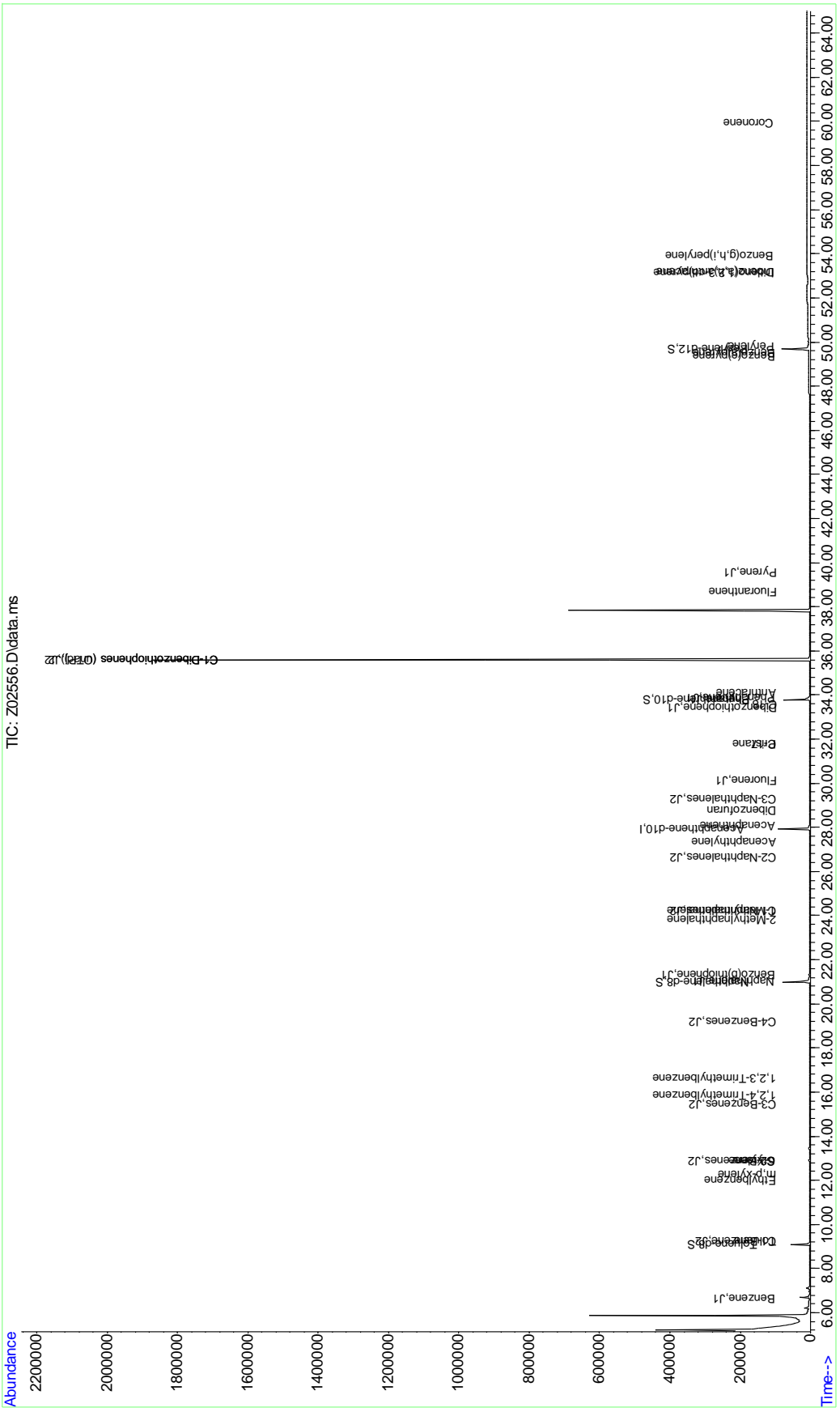
7.1.1
7

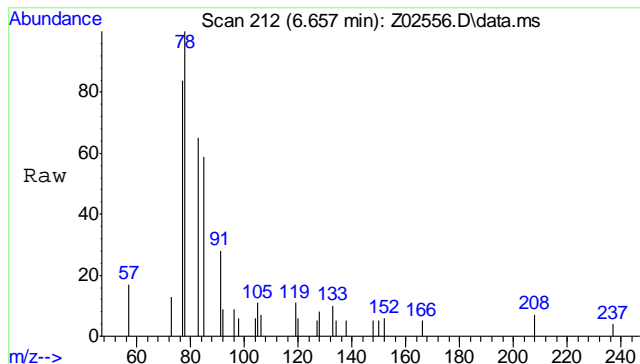
Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02556.D
Sample : mc30898-1
Misc : op38385,msz101,35,,2,1
ALS Vial : 13 Sample Multiplier: 1
Acq On : 6 Jun 2014 8:32 pm

Operator: sofyaz

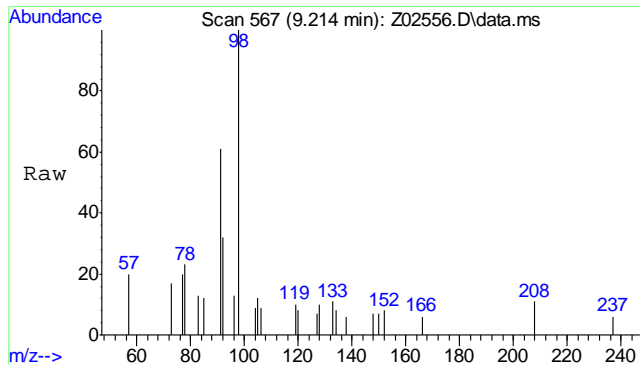
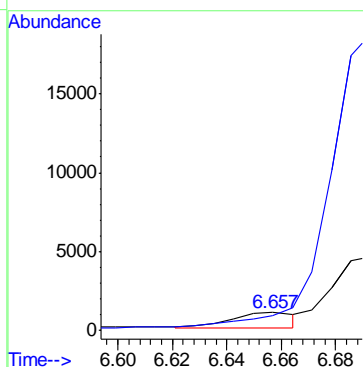
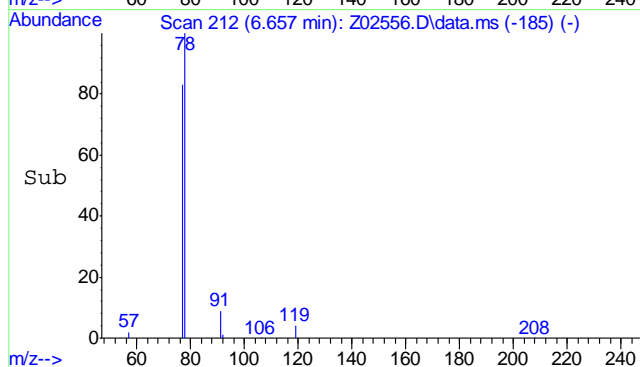
Quant Time: Jun 10 10:36:15 2014
Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M
Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM





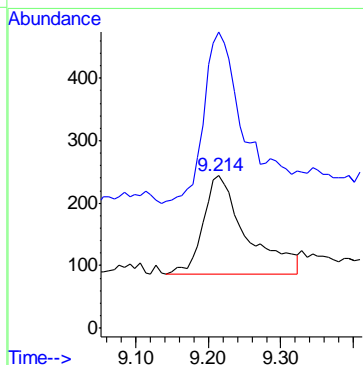
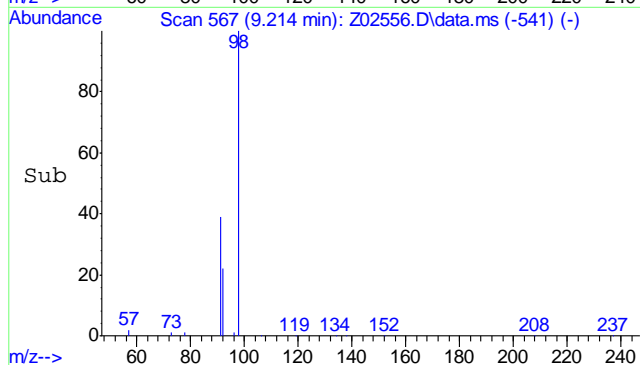
#7
Benzene
Concen: 9.52 ng/mL m
RT: 6.657 min Scan# 212
Delta R.T. -0.007 min
Lab File: Z02556.D
Acq: 6 Jun 2014 8:32 pm

Tgt Ion:	78	Resp:	1566
Ion Ratio	78	Lower	Upper
	77	2857.7	18.1 27.1#

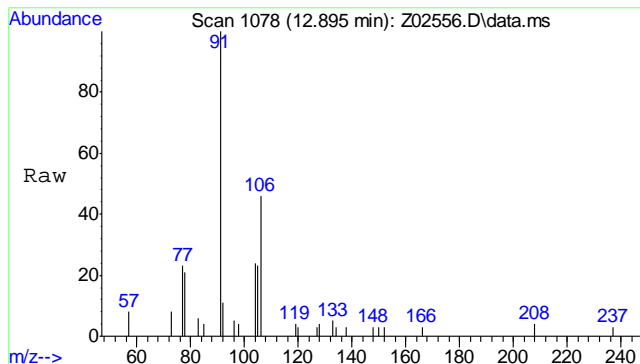


#8
Cl-Benzene
Concen: 3.93 ng/mL
RT: 9.214 min Scan# 567
Delta R.T. -0.015 min
Lab File: Z02556.D
Acq: 6 Jun 2014 8:32 pm

Tgt Ion:	92	Resp:	647
Ion Ratio	92	Lower	Upper
	91	149.9	135.7 203.5

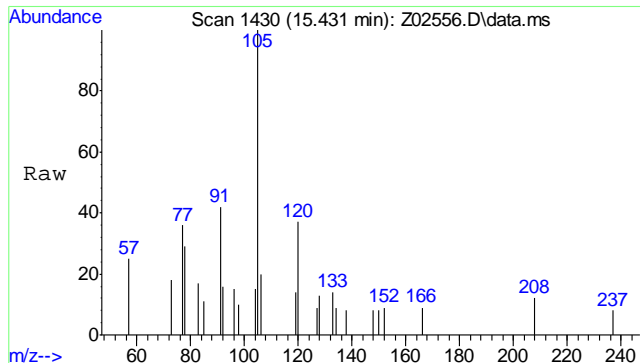
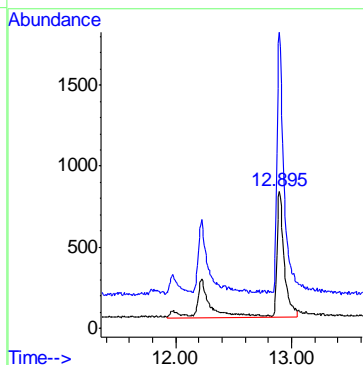
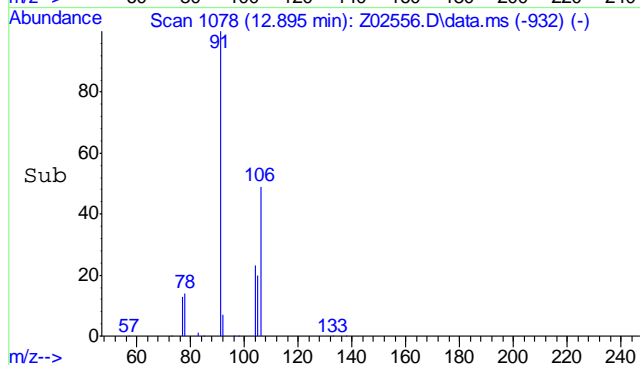


7.1.1
7



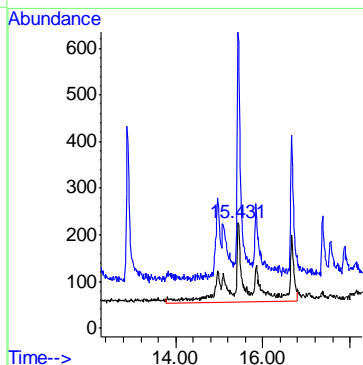
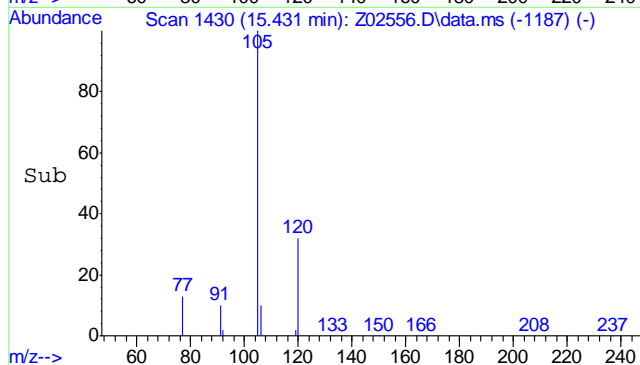
#9
 C2-Benzenes
 Concen: 32.90 ng/mL m
 RT: 12.895 min Scan# 1078
 Delta R.T. 0.691 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:106	Resp:	5415
Ion Ratio	Lower	Upper
106	100	
91	40.2	154.4 231.6#

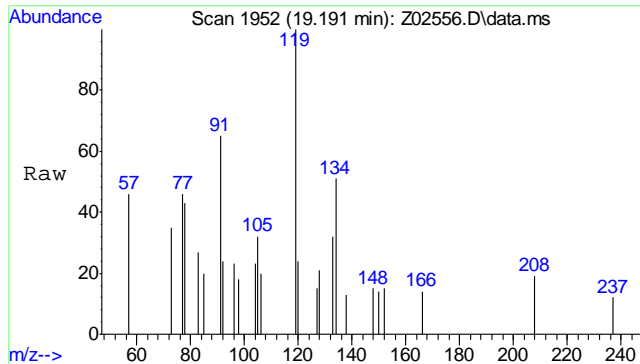


#10
 C3-Benzenes
 Concen: 27.13 ng/mL m
 RT: 15.431 min Scan# 1430
 Delta R.T. -0.396 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:120	Resp:	4465
Ion Ratio	Lower	Upper
120	100	
105	12.9	169.7 254.5#

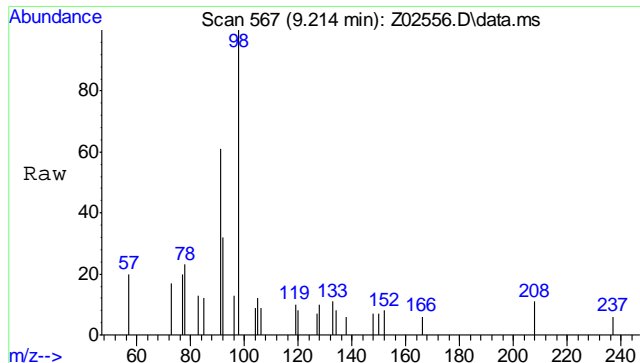
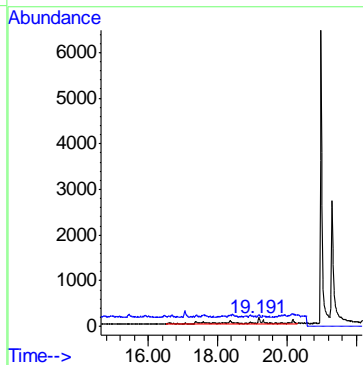
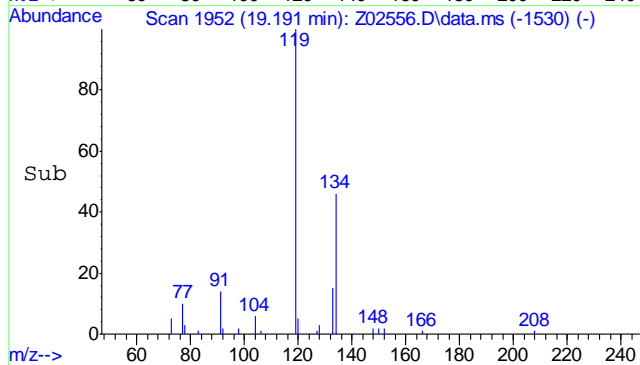


7.1.1
7



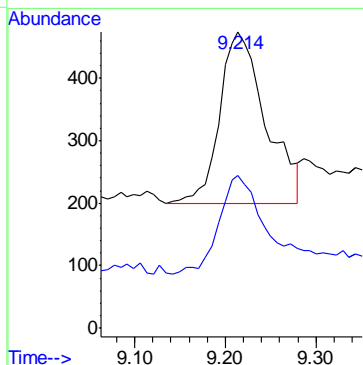
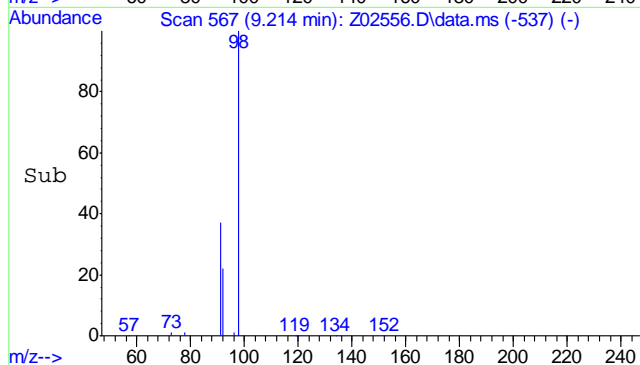
#11
 C4-Benzenes
 Concen: 25.72 ng/mL m
 RT: 19.191 min Scan# 1952
 Delta R.T. -1.013 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion: 134	Resp: 4233
Ion Ratio Lower	Upper
134 100	
91 0.0	30.7 46.1#

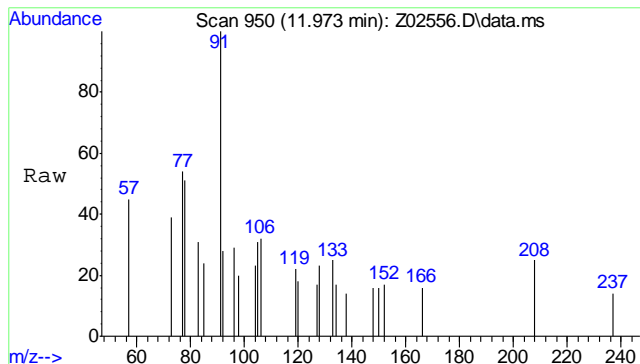


#14
 Toluene
 Concen: 5.43 ng/mL
 RT: 9.214 min Scan# 567
 Delta R.T. 0.014 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion: 91	Resp: 970
Ion Ratio Lower	Upper
91 100	
92 66.7	47.0 70.4

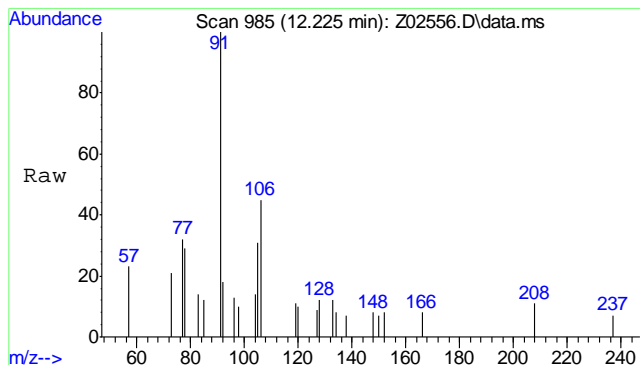
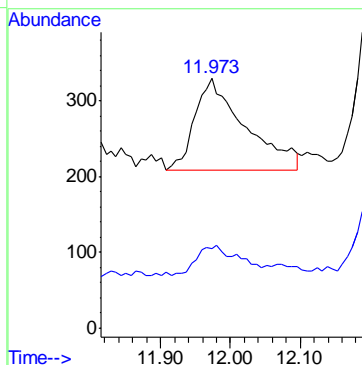
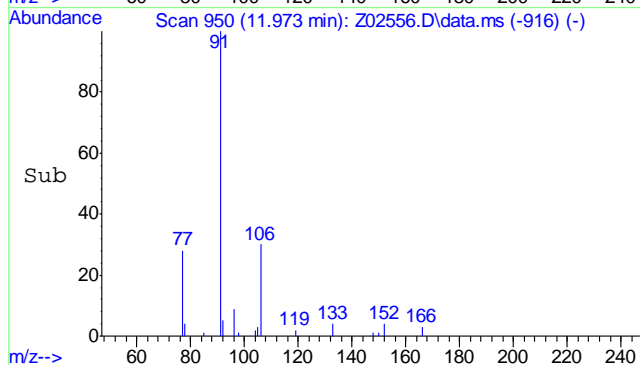


7.1.1
7



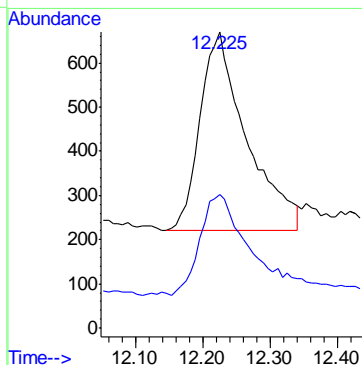
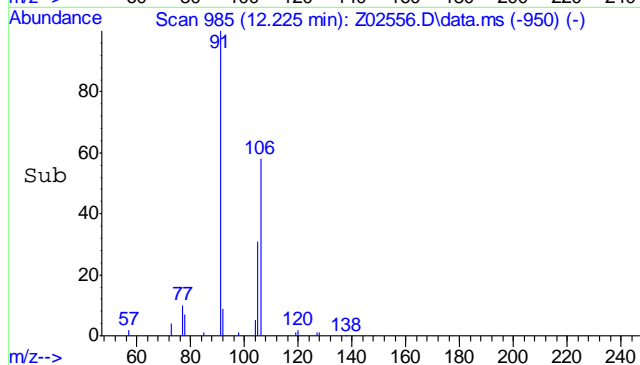
#15
 Ethylbenzene
 Concen: 3.30 ng/mL
 RT: 11.973 min Scan# 950
 Delta R.T. 0.043 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
91	100		
106	0.0	24.3	36.5#

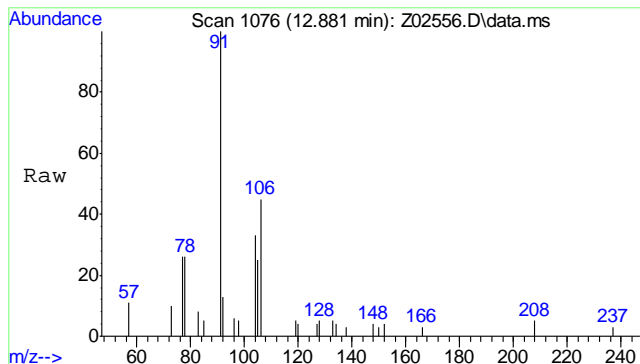


#16
 m,p-xylene
 Concen: 15.34 ng/mL
 RT: 12.225 min Scan# 985
 Delta R.T. 0.050 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
91	100		
106	53.2	39.7	59.5

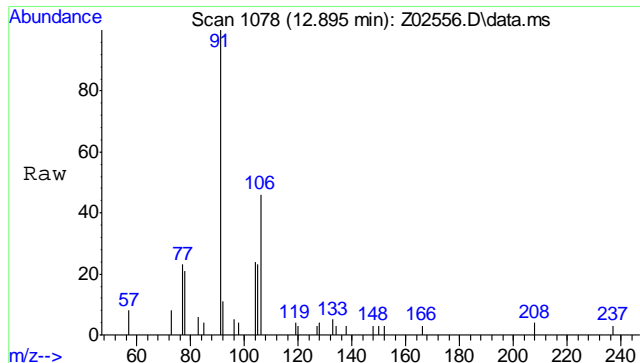
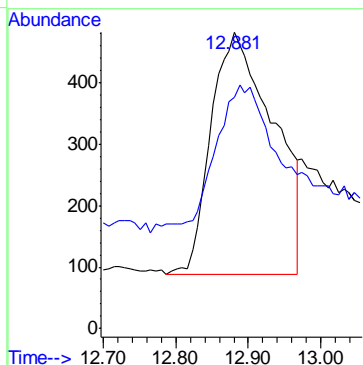
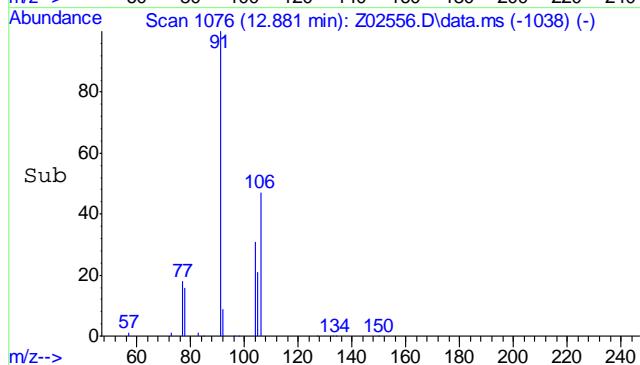


7.1.1
7



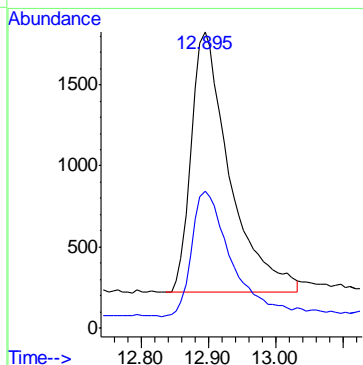
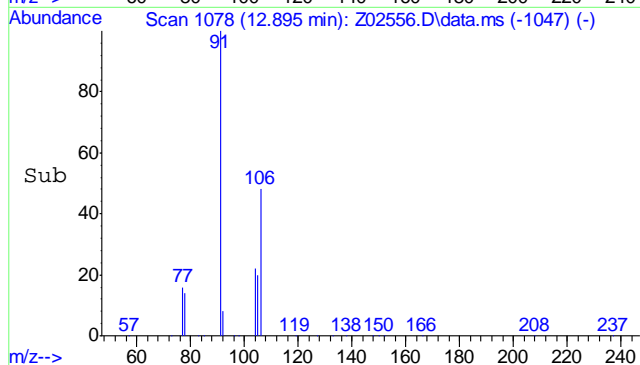
#17
 Styrene
 Concen: 22.88 ng/mL
 RT: 12.881 min Scan# 1076
 Delta R.T. 0.072 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:	104	Resp:	2364
Ion Ratio	Lower	Upper	
104	100		
78	58.3	33.0	49.4#

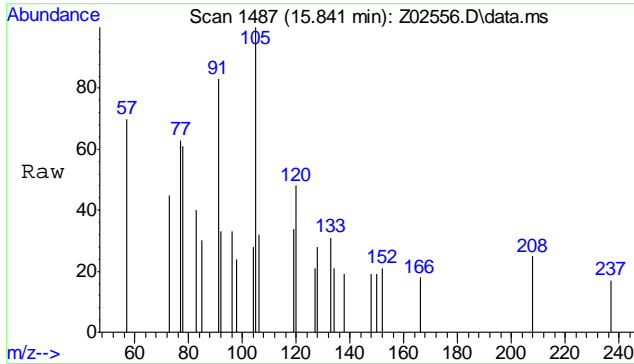


#18
 o-Xylene
 Concen: 42.37 ng/mL
 RT: 12.895 min Scan# 1078
 Delta R.T. 0.021 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:	91	Resp:	6400
Ion Ratio	Lower	Upper	
91	100		
106	49.3	37.6	56.4

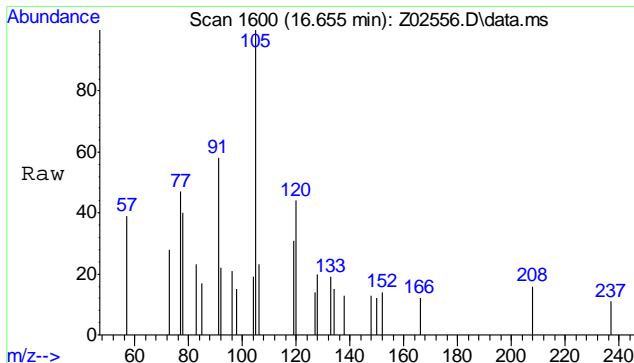
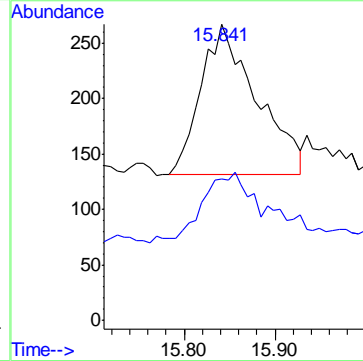
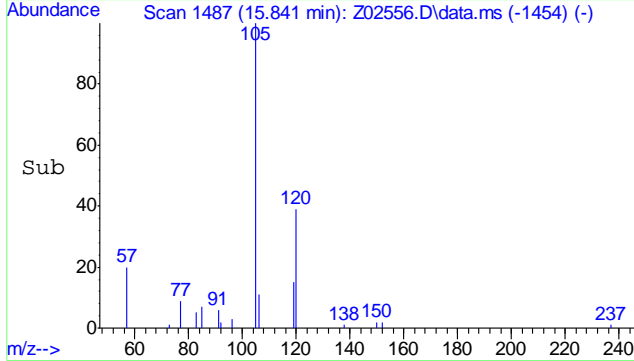


7.1.1
7



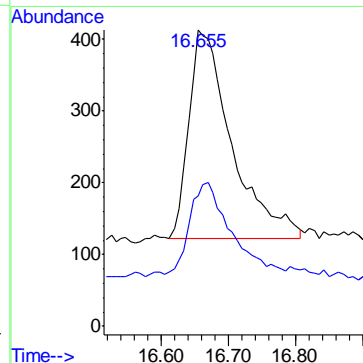
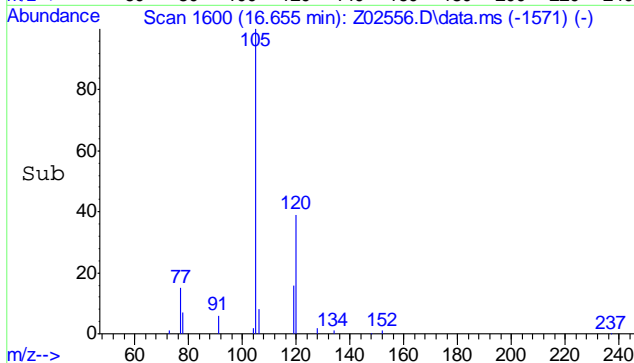
#23
 1,2,4-Trimethylbenzene
 Concen: 3.74 ng/mL
 RT: 15.841 min Scan# 1487
 Delta R.T. 0.036 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	56.1	37.9	56.9

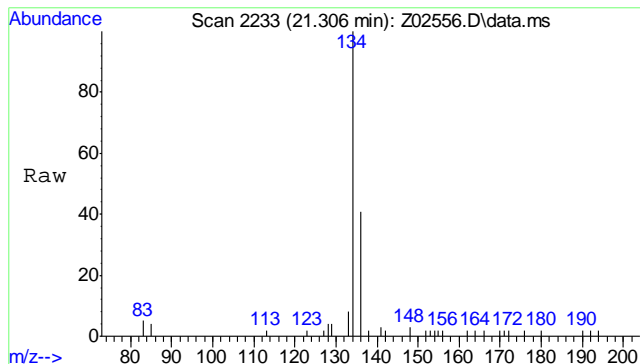


#25
 1,2,3-Trimethylbenzene
 Concen: 7.58 ng/mL
 RT: 16.655 min Scan# 1600
 Delta R.T. 0.007 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	41.2	36.3	54.5

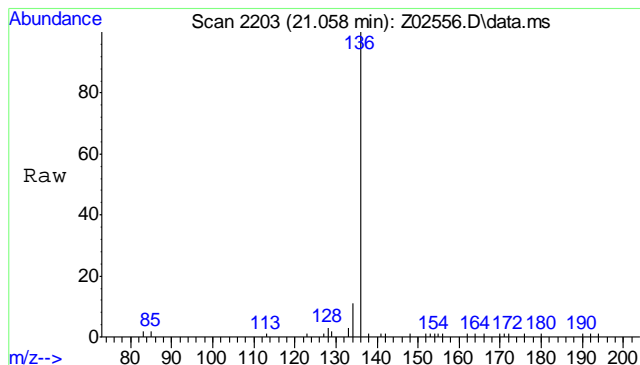
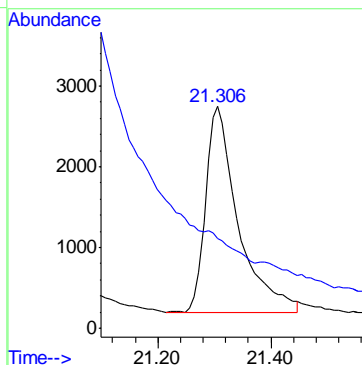
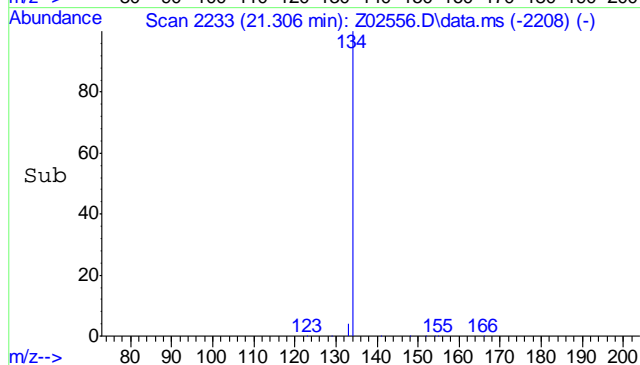


7.1.1
7



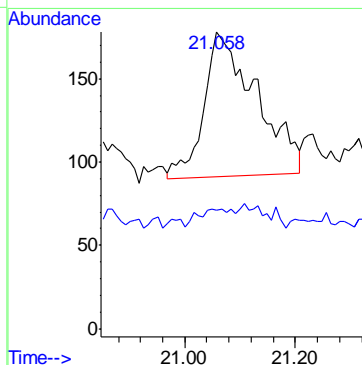
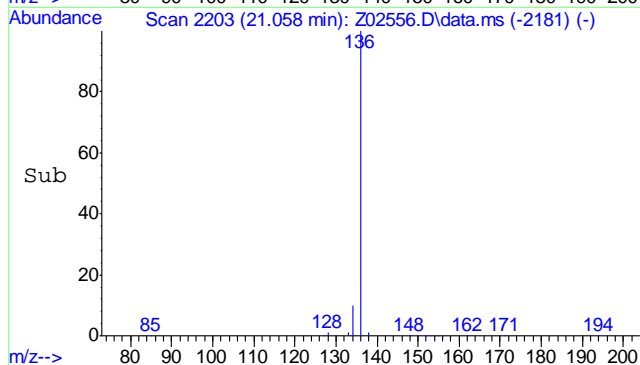
#34
 Benzo(b)thiophene
 Concen: 50.84 ng/mL
 RT: 21.306 min Scan# 2233
 Delta R.T. 0.008 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
134	10189	100	
136	0.0	4.5	6.7#

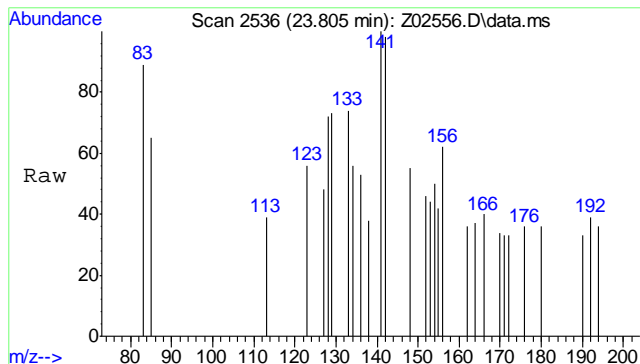


#44
 Naphthalene
 Concen: 2.26 ng/mL m
 RT: 21.058 min Scan# 2203
 Delta R.T. -0.017 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
128	568	100	
127	0.0	9.9	14.9#

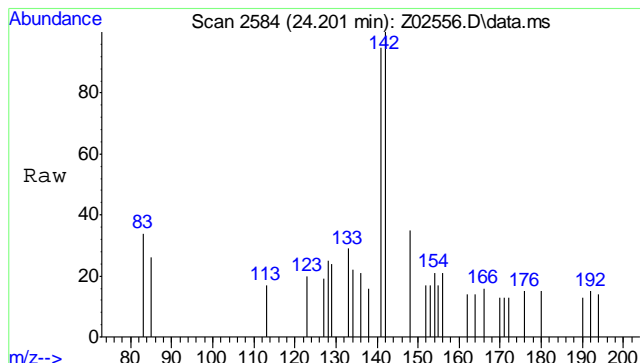
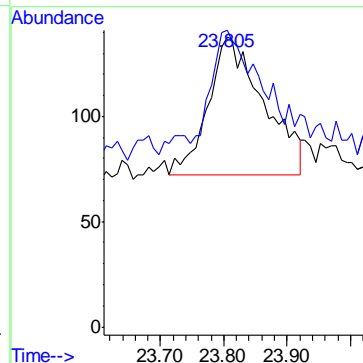
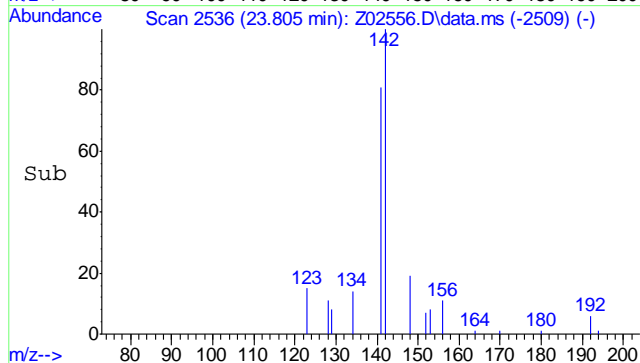


7.1.1
7



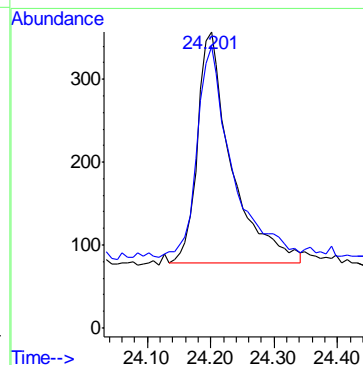
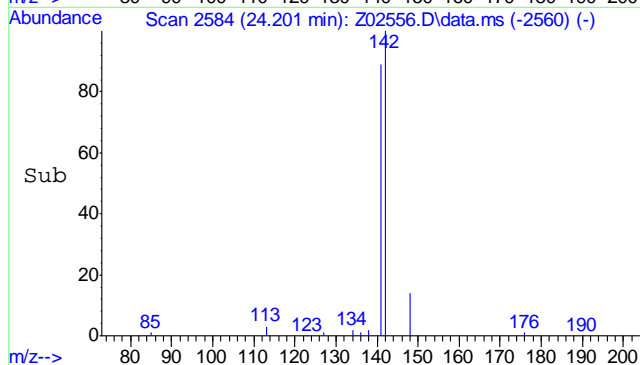
#45
 2-Methylnaphthalene
 Concen: 2.57 ng/mL
 RT: 23.805 min Scan# 2536
 Delta R.T. 0.025 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:142	Resp:	402
Ion Ratio	Lower	Upper
142	100	
141	66.4	68.5 102.7#

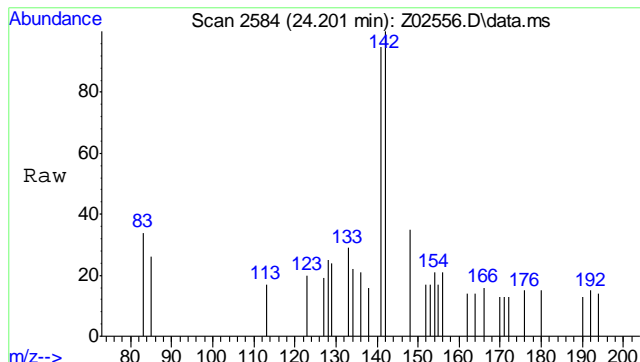


#46
 1-Methylnaphthalene
 Concen: 6.07 ng/mL
 RT: 24.201 min Scan# 2584
 Delta R.T. -0.000 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:142	Resp:	1028
Ion Ratio	Lower	Upper
142	100	
141	94.3	71.1 106.7

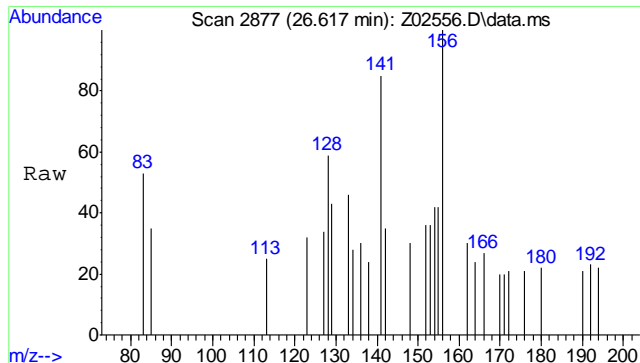
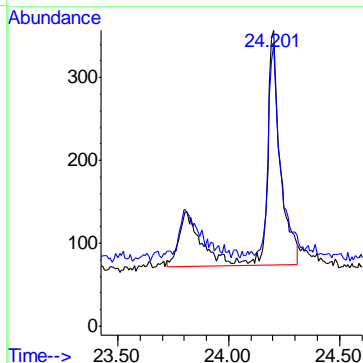
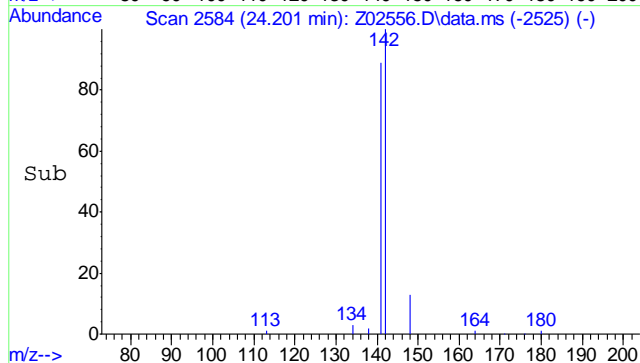


7.1.1
7



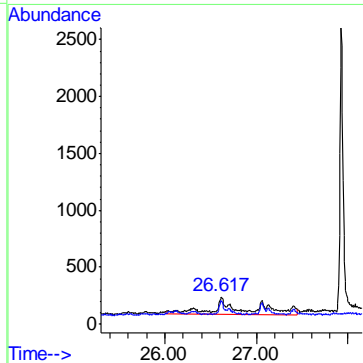
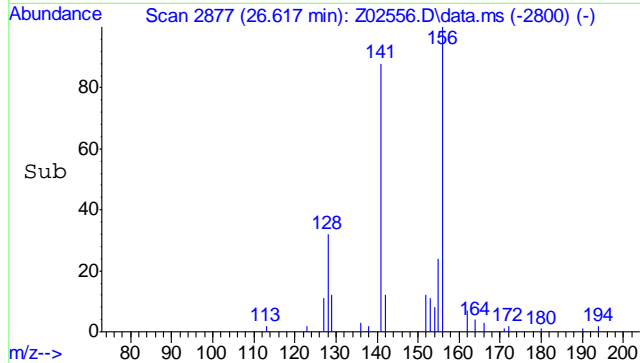
#47
 Cl-Naphthalenes
 Concen: 6.20 ng/mL m
 RT: 24.201 min Scan# 2584
 Delta R.T. 0.414 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:142	Resp:	1560
Ion Ratio	Lower	Upper
142	100	
141	51.2	68.5 102.7#

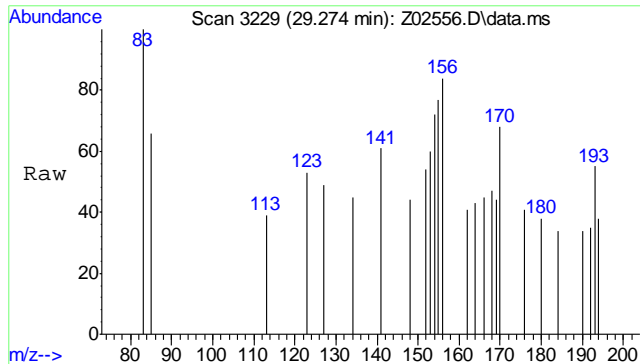


#48
 C2-Naphthalenes
 Concen: 16.05 ng/mL m
 RT: 26.617 min Scan# 2877
 Delta R.T. -0.091 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:156	Resp:	4036
Ion Ratio	Lower	Upper
156	100	
141	0.0	58.1 87.1#

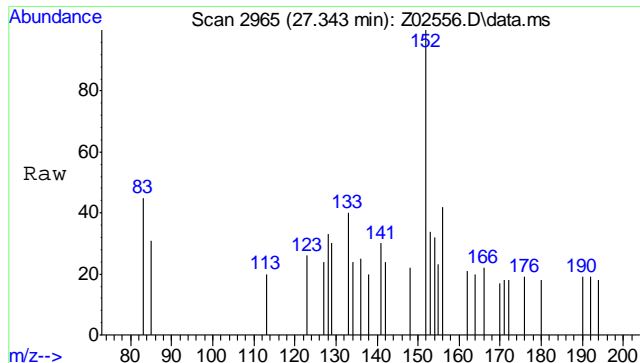
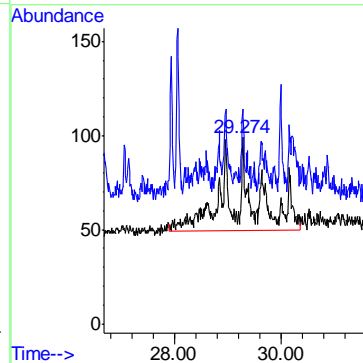
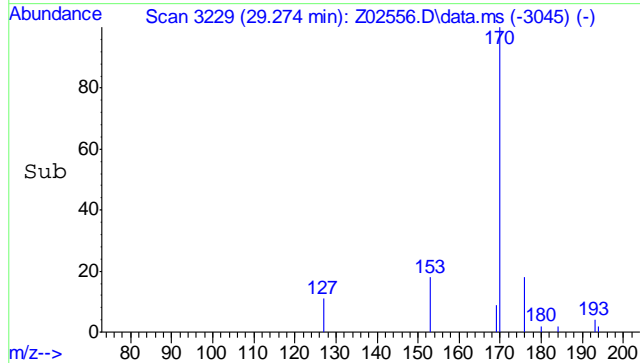


7.1.1
7



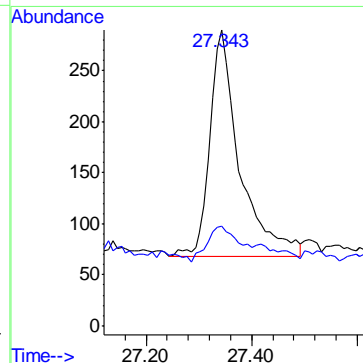
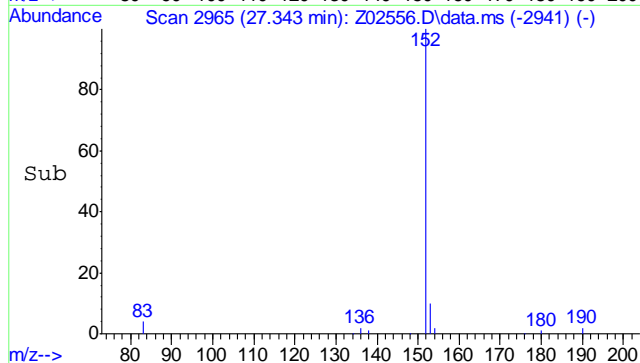
#49
 C3-Naphthalenes
 Concen: 6.67 ng/mL m
 RT: 29.274 min Scan# 3229
 Delta R.T. 0.324 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:170	Resp:	1678
Ion Ratio	Lower	Upper
170	100	
155	0.0	75.6 113.4#

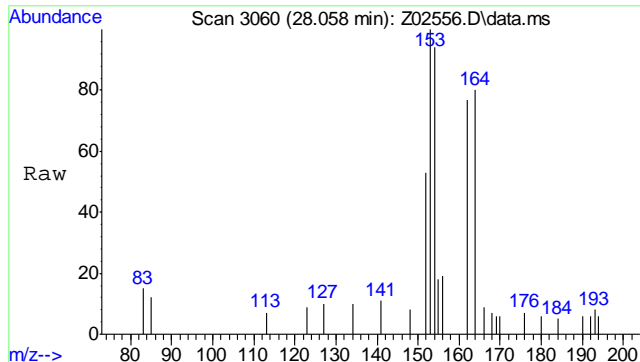


#52
 Acenaphthylene
 Concen: 3.54 ng/mL
 RT: 27.343 min Scan# 2965
 Delta R.T. -0.000 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:152	Resp:	860
Ion Ratio	Lower	Upper
152	100	
153	0.0	10.3 15.5#

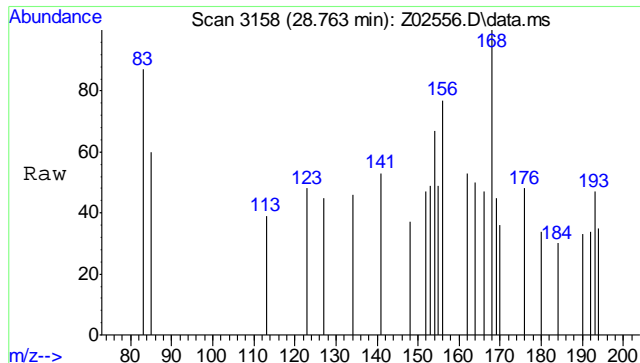
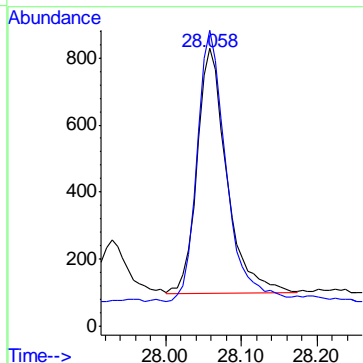
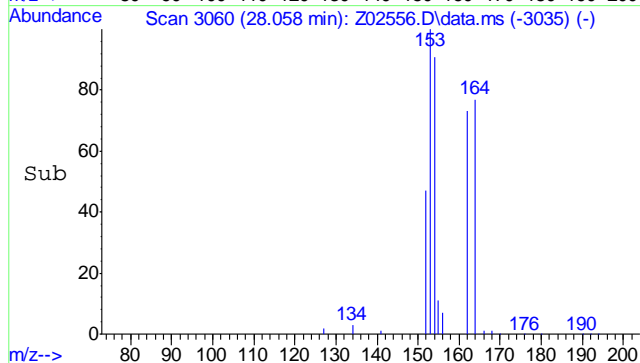


7.1.1
7



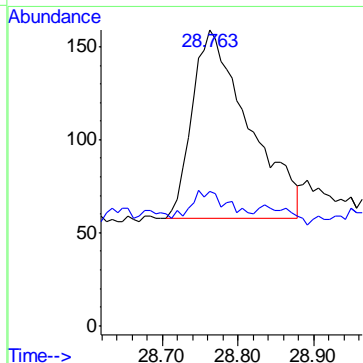
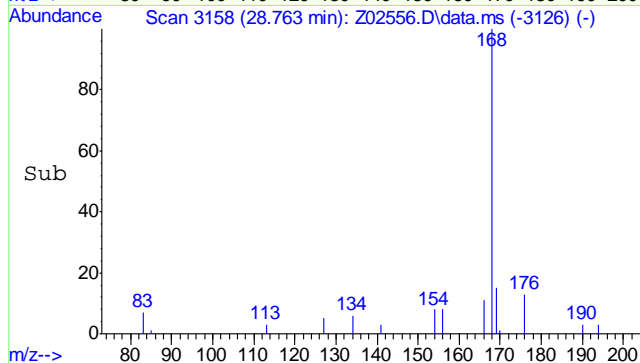
#53
 Acenaphthene
 Concen: 13.00 ng/mL
 RT: 28.058 min Scan# 3060
 Delta R.T. -0.022 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:154	Resp:	1977
Ion Ratio	Lower	Upper
154	100	
153	110.0	88.8 133.2

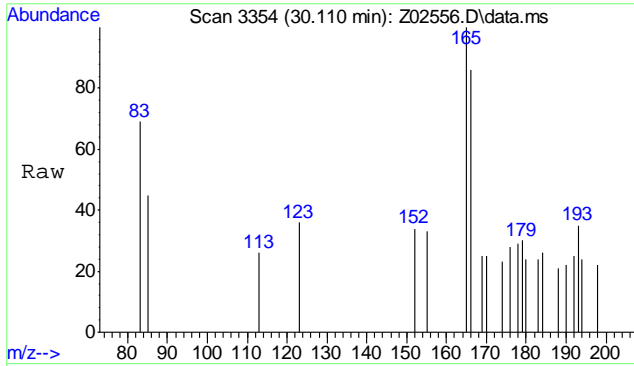


#54
 Dibenzofuran
 Concen: 2.47 ng/mL
 RT: 28.763 min Scan# 3158
 Delta R.T. 0.029 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:168	Resp:	521
Ion Ratio	Lower	Upper
168	100	
169	0.0	10.4 15.6#

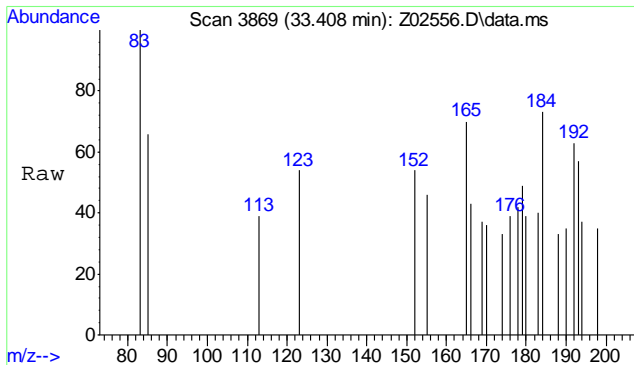
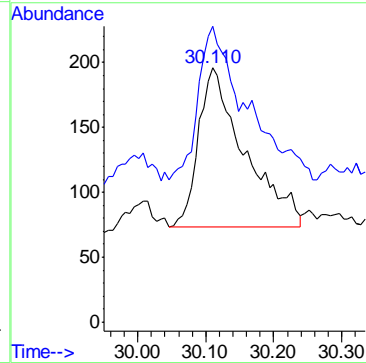
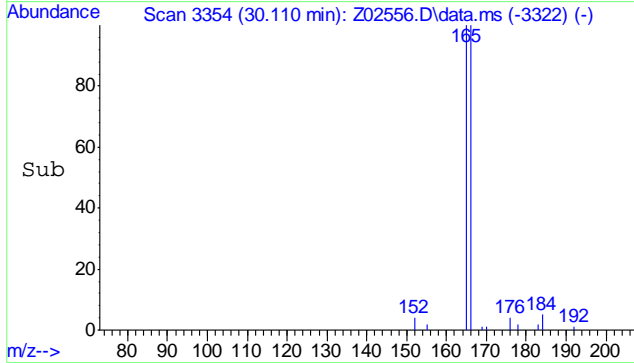


7.1.1
7



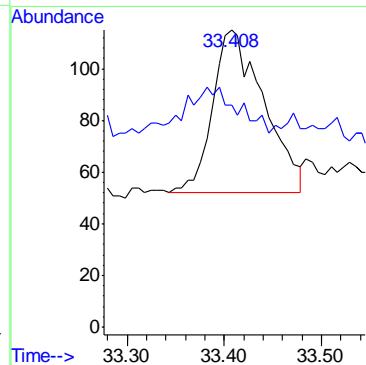
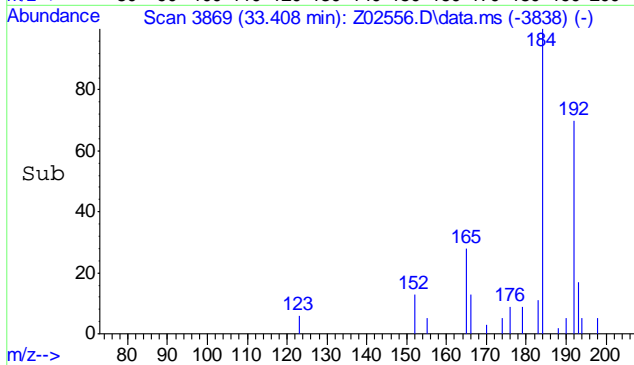
#55
 Fluorene
 Concen: 3.42 ng/mL
 RT: 30.110 min Scan# 3354
 Delta R.T. 0.006 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
166	100		
165	66.0	75.4	113.2#

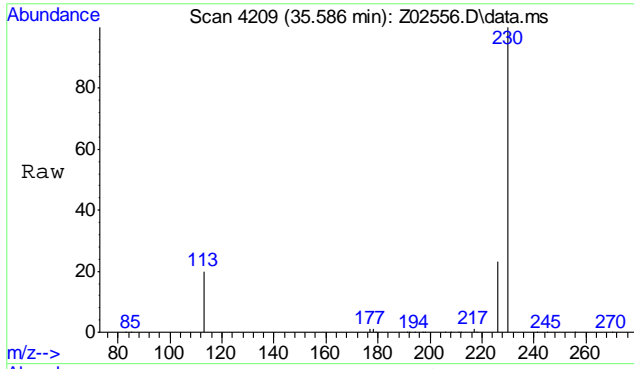


#59
 Dibenzothiophene
 Concen: 0.98 ng/mL
 RT: 33.408 min Scan# 3869
 Delta R.T. -0.000 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
184	100		
152	0.0	7.4	11.0#

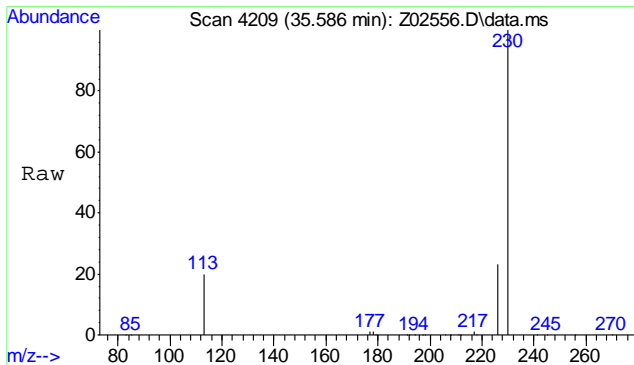
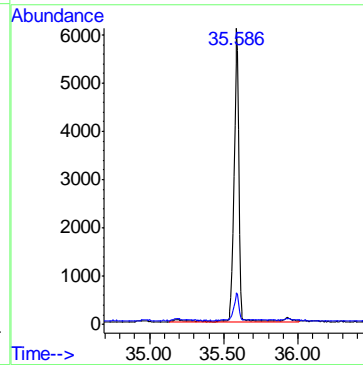
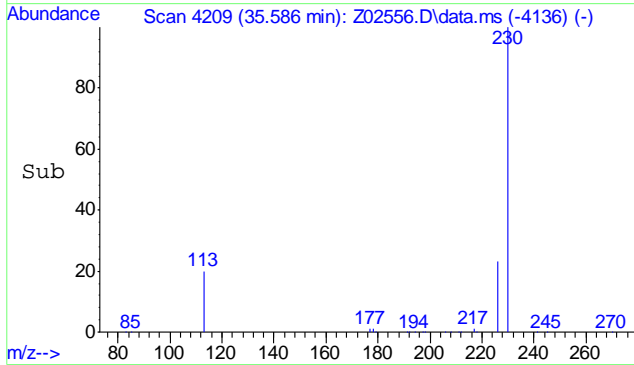


7.1.1
7



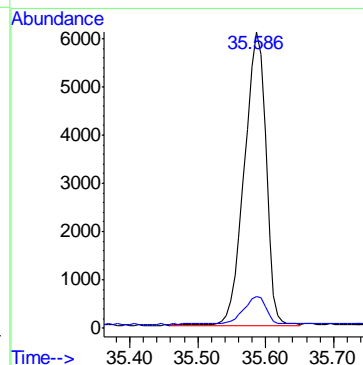
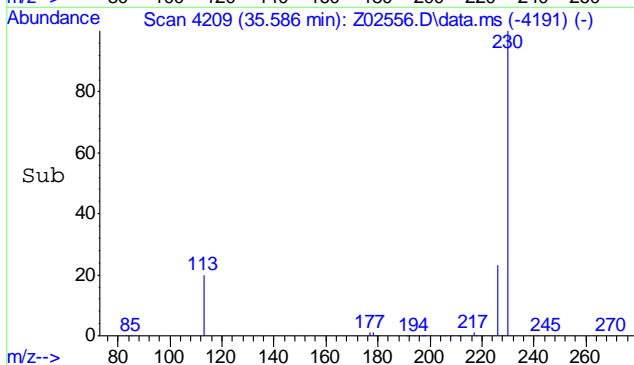
#60
 Cl-Dibenzothiophenes (unadj)
 Concen: 60.21 ng/mL m
 RT: 35.586 min Scan# 4209
 Delta R.T. 0.453 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:198	Resp:	14256
Ion Ratio	Lower	Upper
198	100	
197	0.0	53.7 80.5#

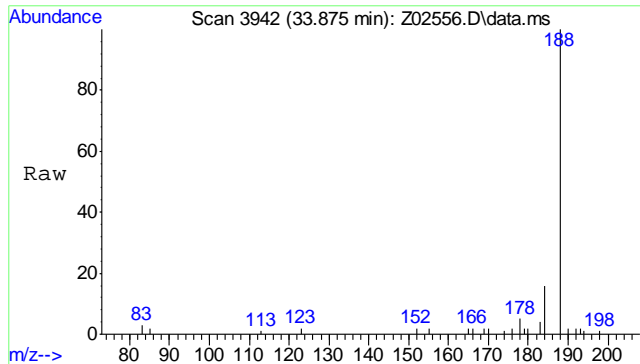


#61
 Cl-Dibenzothiophenes (OTP)
 Concen: 56.54 ng/mL
 RT: 35.586 min Scan# 4209
 Delta R.T. 0.027 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:198	Resp:	13388
Ion Ratio	Lower	Upper
198	100	
197	9.6	121.8 182.6#

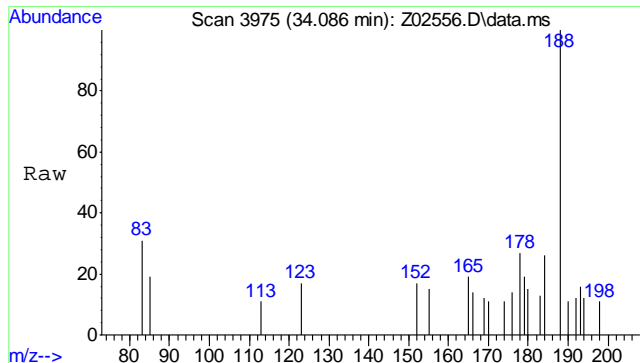
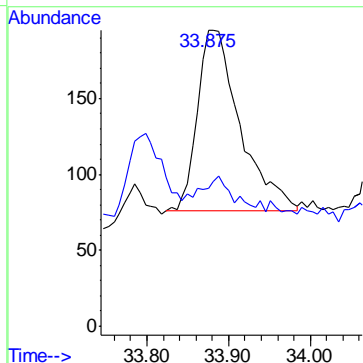
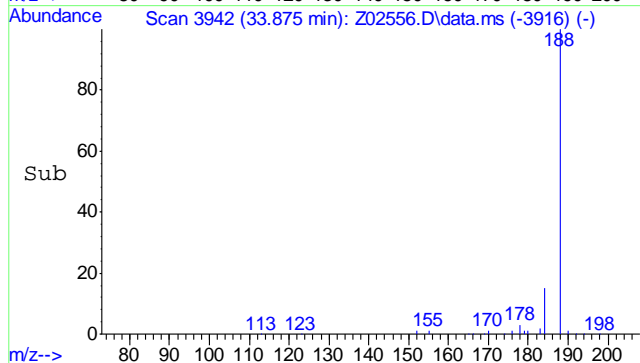


7.1.1
7



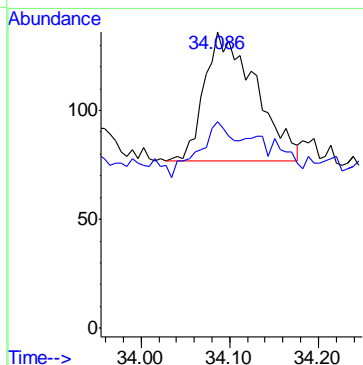
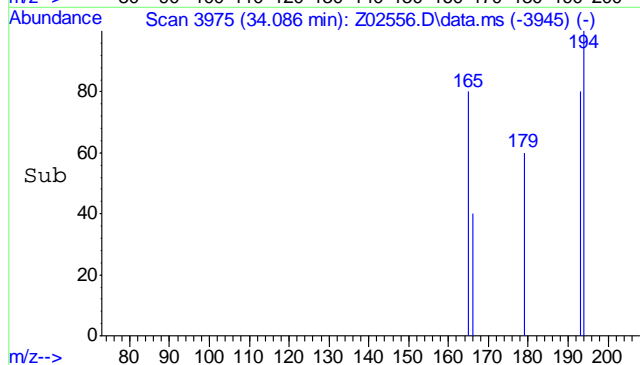
#65
 Phenanthrene
 Concen: 1.69 ng/mL
 RT: 33.875 min Scan# 3942
 Delta R.T. -0.032 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion: 178	Resp: 431
Ion Ratio	Lower Upper
178	100
179	0.0 12.0 18.0#

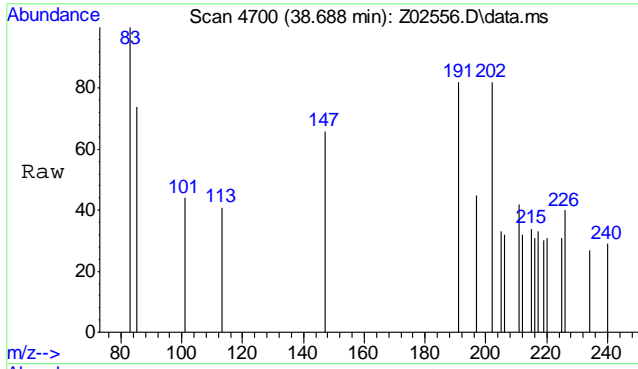


#66
 Anthracene
 Concen: 0.96 ng/mL
 RT: 34.086 min Scan# 3975
 Delta R.T. -0.007 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion: 178	Resp: 235
Ion Ratio	Lower Upper
178	100
179	0.0 12.0 18.0#

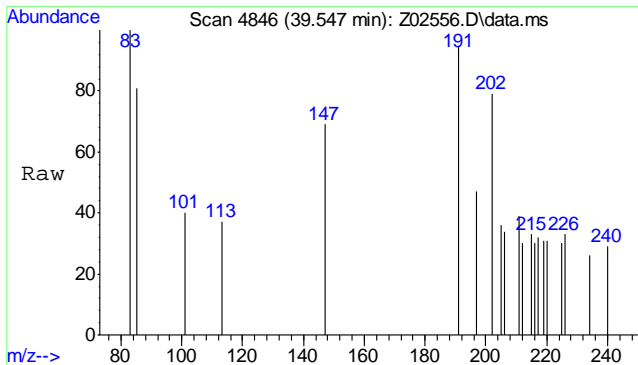
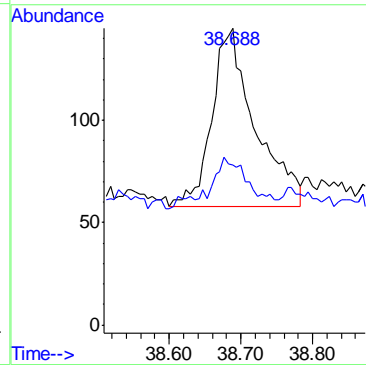
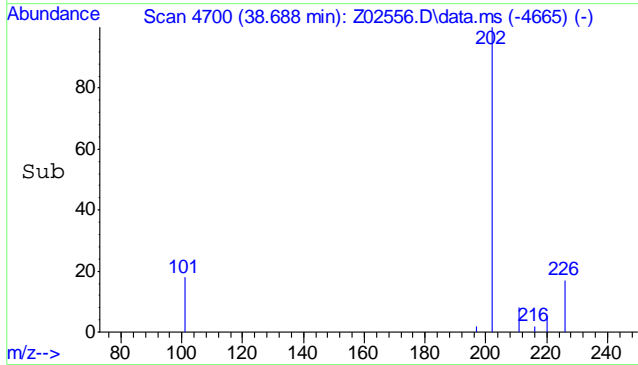


7.1.1



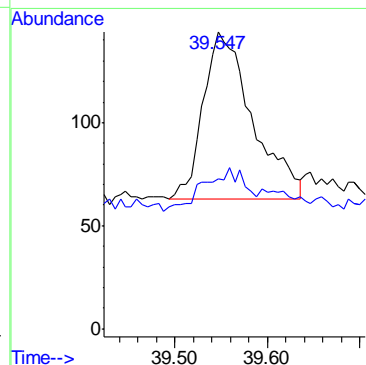
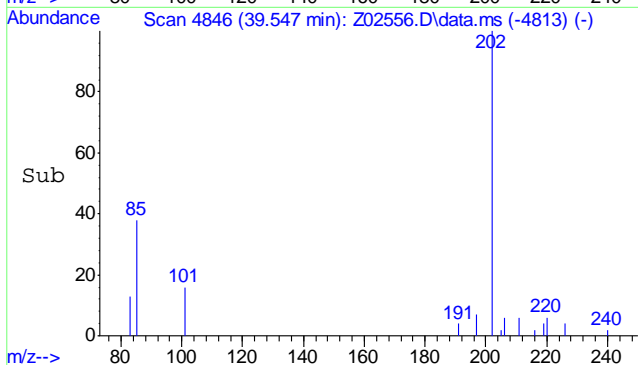
#78
 Fluoranthene
 Concen: 1.47 ng/mL
 RT: 38.688 min Scan# 4700
 Delta R.T. 0.005 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion: 202	Resp: 365
Ion Ratio Lower	Upper
202 100	
101 0.0	12.6 19.0#

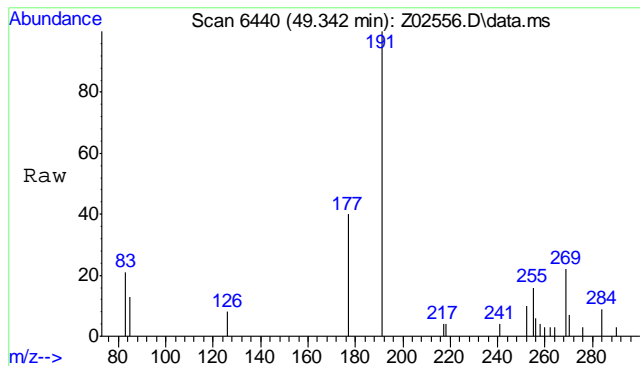


#79
 Pyrene
 Concen: 1.15 ng/mL
 RT: 39.547 min Scan# 4846
 Delta R.T. -0.006 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion: 202	Resp: 299
Ion Ratio Lower	Upper
202 100	
101 0.0	14.4 21.6#

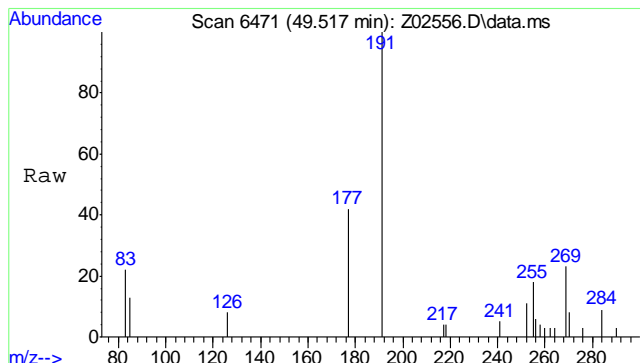
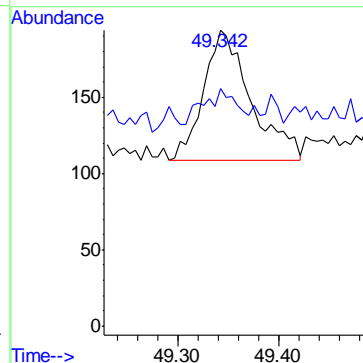
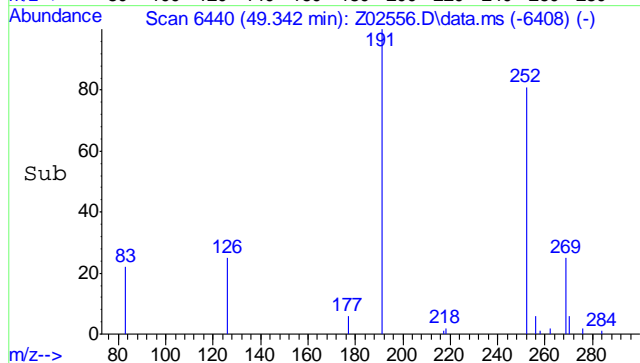


7.1.1
7



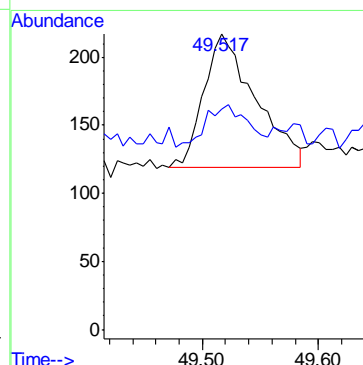
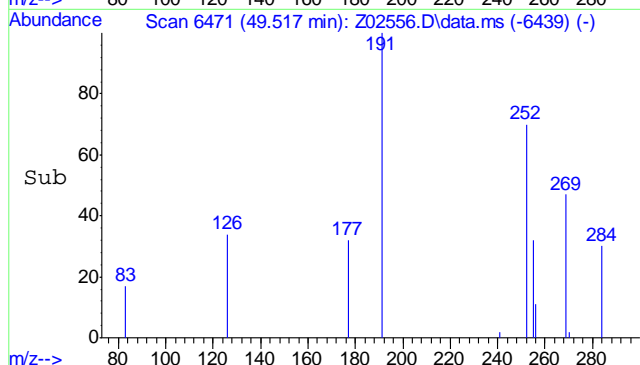
#96
 Benzo(e)pyrene
 Concen: 1.14 ng/mL
 RT: 49.342 min Scan# 6440
 Delta R.T. -0.023 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	252	126	Resp	276
Ion Ratio	100	0.0	13.5	20.3#

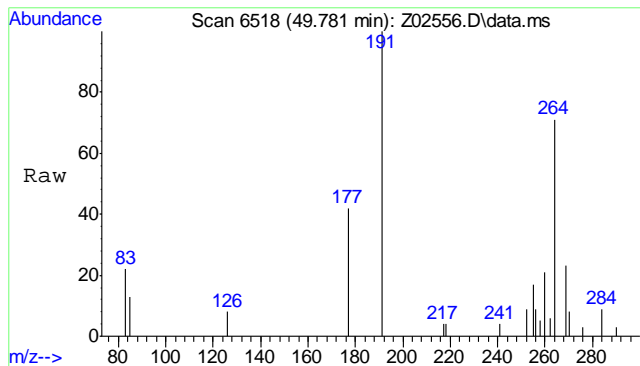


#97
 Benzo(a)pyrene
 Concen: 1.41 ng/mL
 RT: 49.517 min Scan# 6471
 Delta R.T. -0.022 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	252	126	Resp	305
Ion Ratio	100	0.0	16.6	24.8#

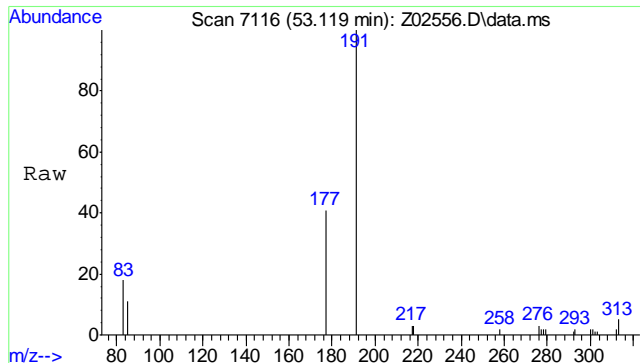
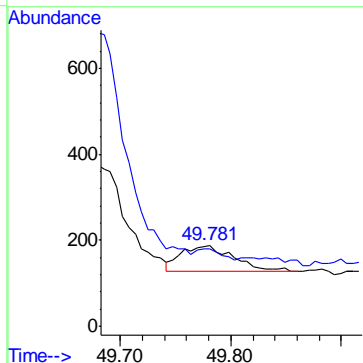
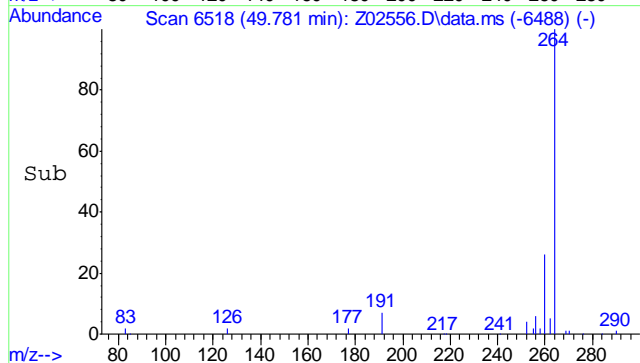


7.1.1
7



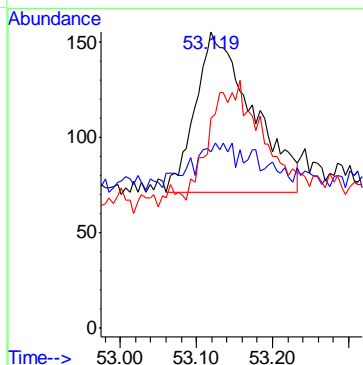
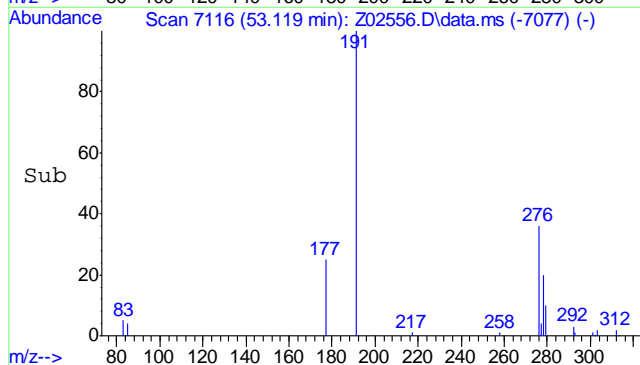
#98
 Perylene
 Concen: 0.94 ng/mL
 RT: 49.781 min Scan# 6518
 Delta R.T. -0.034 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:	252	Resp:	202
Ion Ratio	Lower	Upper	
252	100		
126	0.0	17.3	25.9#

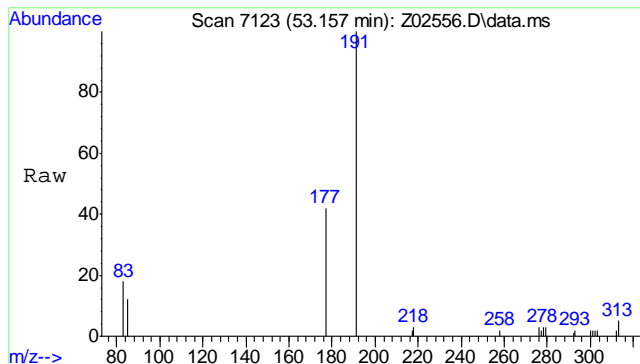


#99
 Indeno(1,2,3-cd)pyrene
 Concen: 1.56 ng/mL
 RT: 53.119 min Scan# 7116
 Delta R.T. 0.010 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion:	276	Resp:	432
Ion Ratio	Lower	Upper	
276	100		
277	0.0	19.0	28.6#
278	0.0	27.8	41.8#

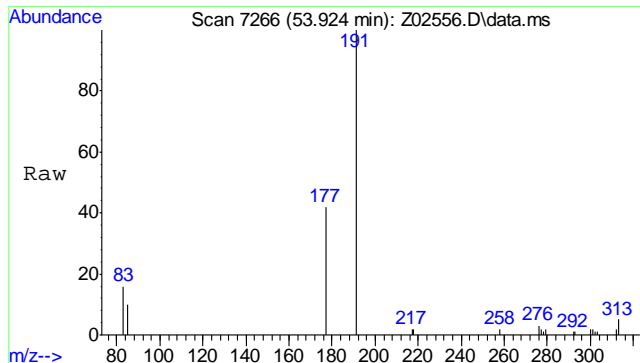
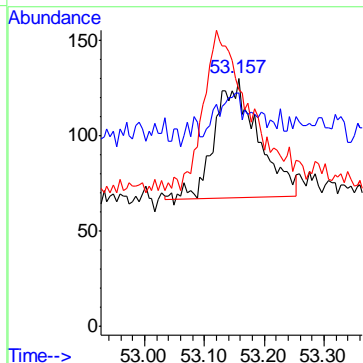
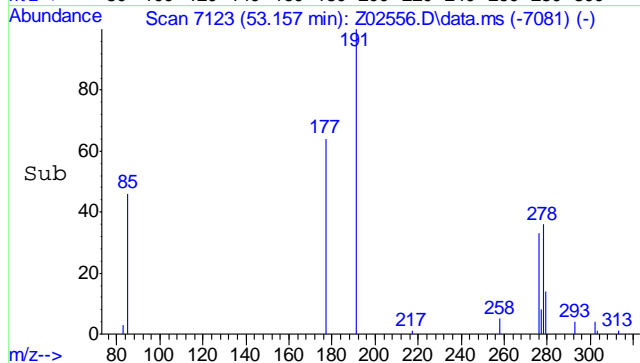


7.1.1



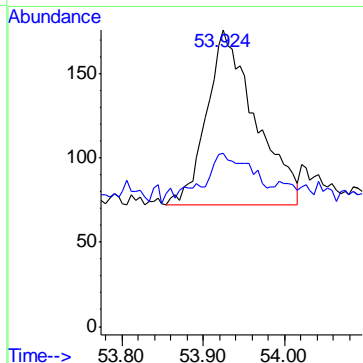
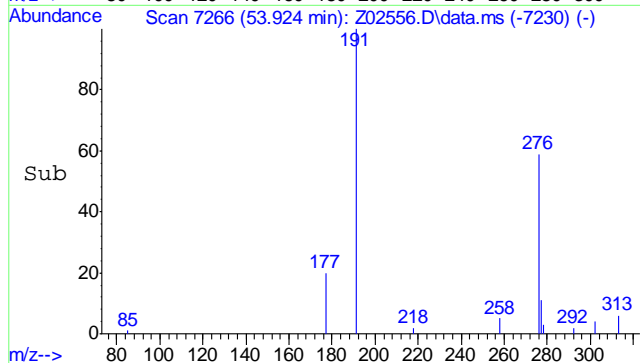
#100
 Dibenz(a,h)anthracene
 Concen: 1.28 ng/mL m
 RT: 53.157 min Scan# 7123
 Delta R.T. 0.027 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
278	100		
279	0.0	18.6	28.0#
276	0.0	57.7	86.5#

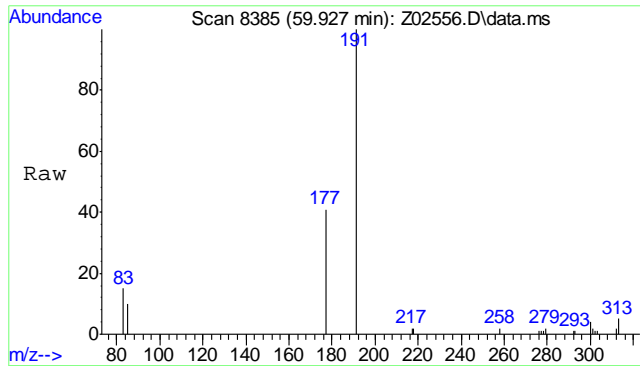


#101
 Benzo(g,h,i)perylene
 Concen: 1.55 ng/mL
 RT: 53.924 min Scan# 7266
 Delta R.T. -0.005 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
276	100		
277	0.0	18.6	28.0#

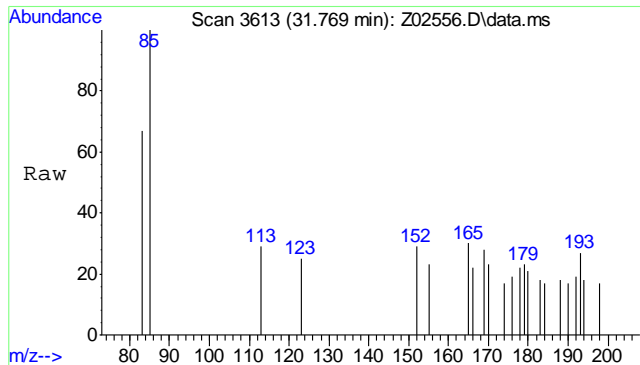
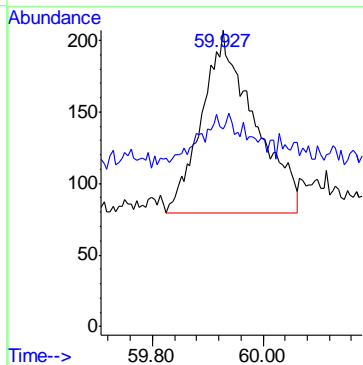
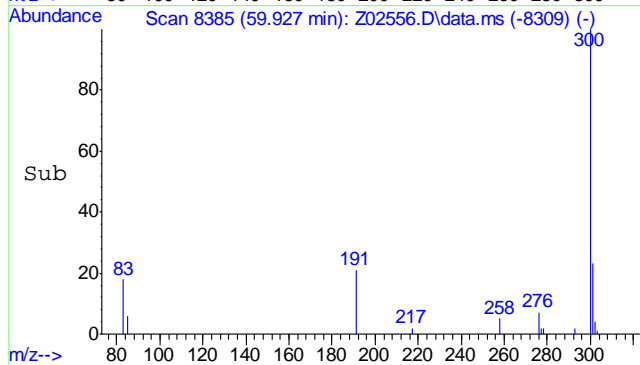


7.1.1
7



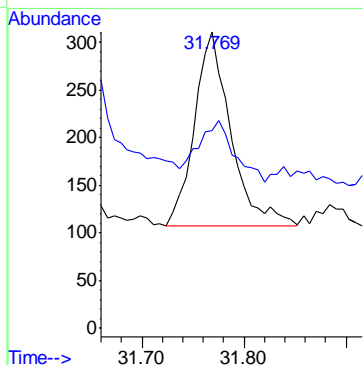
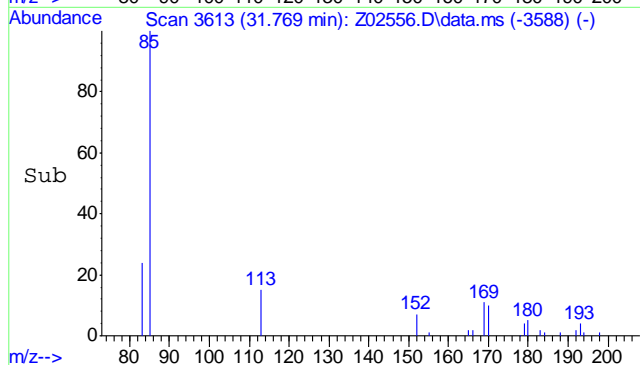
#102
 Coronene
 Concen: 3.16 ng/mL
 RT: 59.927 min Scan# 8385
 Delta R.T. 0.005 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion: 300	Resp: 844
Ion Ratio Lower	Upper
300 100	
301 0.0	20.6 31.0#

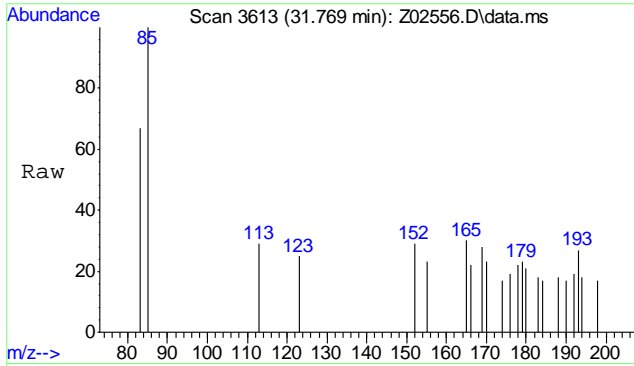


#103
 C-17
 Concen: 10.90 ng/mL
 RT: 31.769 min Scan# 3613
 Delta R.T. -0.038 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion: 85	Resp: 499
Ion Ratio Lower	Upper
85 100	
83 0.0	11.8 17.8#

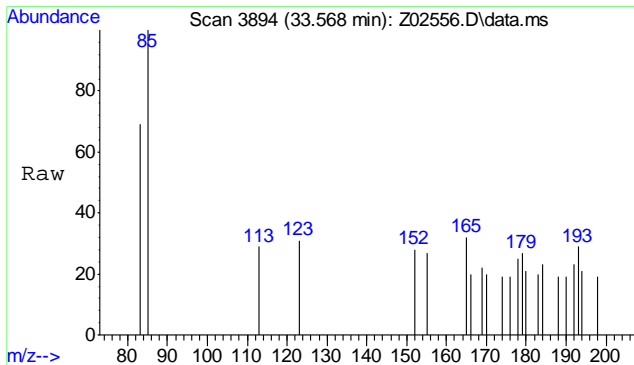
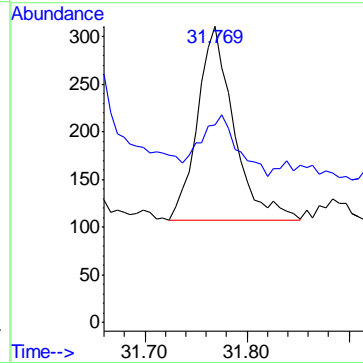
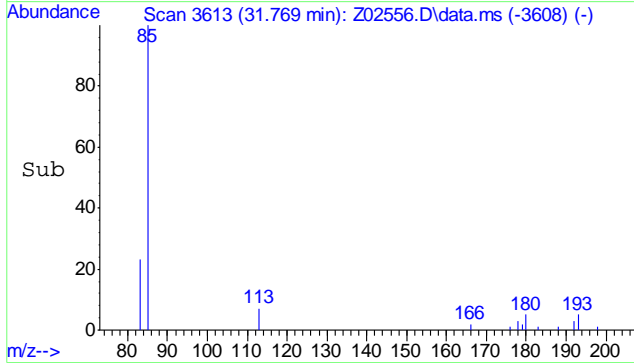


7.1.1
7



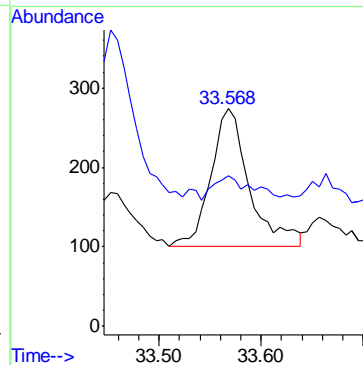
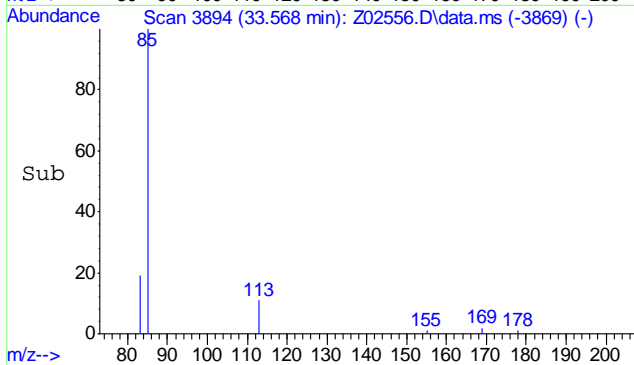
#104
 Pristane
 Concen: 14.57 ng/mL
 RT: 31.769 min Scan# 3613
 Delta R.T. -0.166 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
85	100		
83	0.0	10.5	15.7#

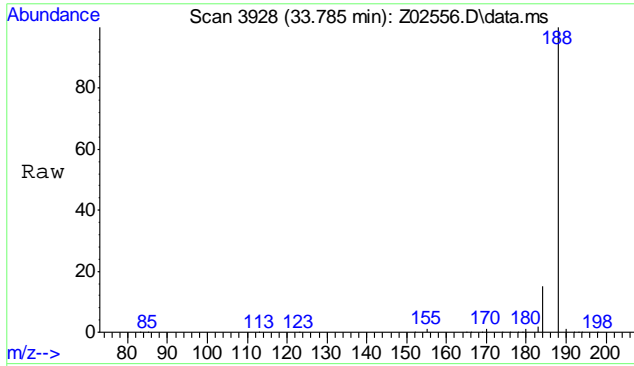


#105
 C-18
 Concen: 9.95 ng/mL
 RT: 33.568 min Scan# 3894
 Delta R.T. -0.038 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	Resp	Lower	Upper
85	100		
83	0.0	13.0	19.4#

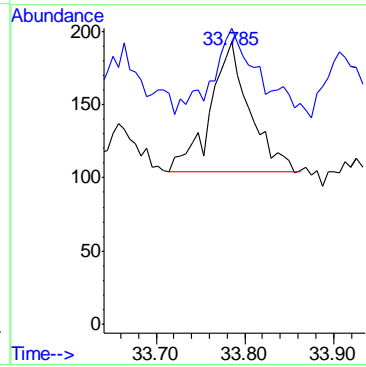
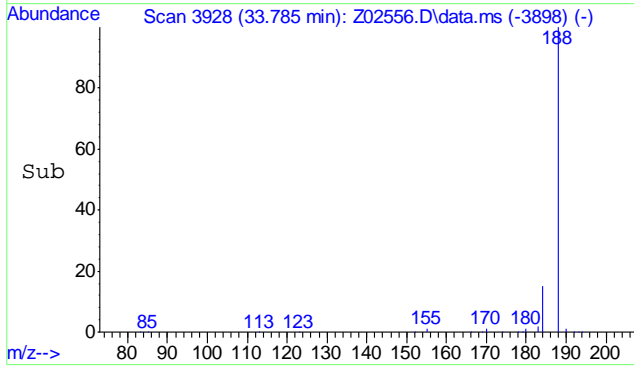


7.1.1
7



#106
 Phytane
 Concen: 6.09 ng/mL
 RT: 33.785 min Scan# 3928
 Delta R.T. -0.007 min
 Lab File: Z02556.D
 Acq: 6 Jun 2014 8:32 pm

Tgt Ion	85	83	Resp	0.0	10.1	275	15.1#
Ion Ratio	100						
Lower							
Upper							



7.1.1
7

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02548.D
Sample : mc30898-2
Misc : op38366,msz101,5.91,,,2,1
ALS Vial : 8 Sample Multiplier: 1
Acq On : 6 Jun 2014 10:09 am

Operator: sofyaz

Quant Time: Jun 10 11:03:22 2014
Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M
Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM

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

Internal Standards							
1) Acenaphthene-d10	27.929	164	128206	1000.00	ng/mL	-0.02	
System Monitoring Compounds							
2) Toluene-d8	9.092	98	88794	647.47	ng/mL	0.00	
Spiked Amount	1000.000		Recovery	=	64.75%		
3) Naphthalene-d8	20.984	136	162567	670.06	ng/mL	-0.02	
Spiked Amount	1000.000		Recovery	=	67.01%		
4) Phenanthrene-d10	33.779	188	149503	712.28	ng/mL	-0.04	
Spiked Amount	1000.000		Recovery	=	71.23%		
5) Perylene-d12	49.680	264	135091	732.68	ng/mL	-0.05	
Spiked Amount	1000.000		Recovery	=	73.27%		
Target Compounds							
							Qvalue
7) Benzene	6.650	78	7414	39.18	ng/mL#		53
8) C1-Benzene	9.207	92	8792	46.46	ng/mL		94
9) C2-Benzenes	12.182	106	14705m	77.71	ng/mL		
10) C3-Benzenes	15.812	120	8357m	44.16	ng/mL		
11) C4-Benzenes	19.183	134	8437m	44.59	ng/mL		
12) C5-Benzenes	20.214	148	7251m	38.32	ng/mL		
13) Methylcyclohexane	8.004	83	2238	29.21	ng/mL		94
14) Toluene	9.207	91	15298	74.53	ng/mL		98
15) Ethylbenzene	11.951	91	2986	14.11	ng/mL		92
16) m,p-xylene	12.175	91	19385	119.90	ng/mL		98
17) Styrene	12.830	104	10431	87.81	ng/mL		99
18) o-Xylene	12.881	91	4083	23.51	ng/mL		96
19) Isopropylbenzene	13.795	105	1085	5.32	ng/mL		100
20) n-Propylbenzene	14.667	91	2106	8.83	ng/mL		98
21) 1,3,5-Trimethylbenzene	15.078	105	1685	9.11	ng/mL#		78
23) 1,2,4-Trimethylbenzene	15.812	105	3993	22.57	ng/mL		99
25) 1,2,3-Trimethylbenzene	16.648	105	1950	9.93	ng/mL		98
26) p-Isopropyltoluene	16.662	119	1132m	5.14	ng/mL		
27) n-Butylbenzene	17.548	91	1968	10.78	ng/mL#		46
34) Benzo(b)thiophene	21.289	134	15255	66.20	ng/mL		98
44) Naphthalene	21.067	128	16816	58.16	ng/mL		99
45) 2-Methylnaphthalene	23.772	142	7992	44.47	ng/mL		98
46) 1-Methylnaphthalene	24.184	142	8239	42.33	ng/mL		99
47) C1-Naphthalenes	24.184	142	17551m	60.70	ng/mL		
48) C2-Naphthalenes	26.601	156	22090m	76.40	ng/mL		
49) C3-Naphthalenes	28.936	170	18114m	62.65	ng/mL		
50) C4-Naphthalenes	32.934	184	11960m	41.37	ng/mL		
51) Biphenyl	25.669	154	3672	16.08	ng/mL		90
52) Acenaphthylene	27.318	152	23934	85.57	ng/mL		96
53) Acenaphthene	28.051	154	11247	64.31	ng/mL		99
54) Dibenzofuran	28.713	168	10257	42.25	ng/mL		99
55) Fluorene	30.078	166	7722m	39.50	ng/mL		
56) C1-Fluorenes	32.447	180	4628m	23.67	ng/mL		
57) C2-Fluorenes	34.631	194	6287m	32.16	ng/mL		
58) C3-Fluorenes	37.183	208	11396m	58.30	ng/mL		
59) Dibenzothiophene	33.382	184	5777	21.22	ng/mL		98
60) C1-Dibenzothiophenes (...)	35.586	198	17479m	64.20	ng/mL		
61) C1-Dibenzothiophenes (...)	35.586	198	10323m	37.92	ng/mL		
62) C2-Dibenzothiophenes	38.087	212	11199m	41.14	ng/mL		
63) C3-Dibenzothiophenes	39.053	226	11109m	40.81	ng/mL		

7.12
7

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02548.D

Sample : mc30898-2

Misc : op38366,msz101,5.91,,,2,1

ALS Vial : 8 Sample Multiplier: 1

Acq On : 6 Jun 2014 10:09 am

Operator: sofyaz

Quant Time: Jun 10 11:03:22 2014

Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M

Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) C4-Dibenzothiophenes	41.523	240	21844m	80.24	ng/mL	
65) Phenanthrene	33.869	178	78289	267.01	ng/mL	100
66) Anthracene	34.061	178	26509	94.23	ng/mL#	85
67) C1-Phenanthrenes/anthr...	35.958	192	36254m	123.65	ng/mL	
68) C2-Phenanthrenes/anthr...	37.825	206	30406m	103.70	ng/mL	
69) C2-Phenanthrenes/anthr...	37.825	206	7803m	26.61	ng/mL	
70) C3-Phenanthrenes/anthr...	39.964	220	15044m	51.31	ng/mL	
71) C4-Phenanthrenes/anthr...	41.523	234	11457m	39.08	ng/mL	
72) Retene	40.876	234	410	11.33	ng/mL	78
73) Benzo(b)naphtho(2,1-d)...	43.393	234	6861	25.60	ng/mL	100
78) Fluoranthene	38.641	202	132807	465.76	ng/mL	100
79) Pyrene	39.518	202	131575	438.70	ng/mL	97
80) C1-Fluoranthenes/pyrenes	40.941	216	55514m	185.10	ng/mL	
81) Benzo(b)fluorene	41.182	216	5807m	19.36	ng/mL	
82) Benzo(c)fluorene	41.199	216	3791m	12.64	ng/mL	
83) 2-Methylpyrene	41.335	216	6382m	21.28	ng/mL	
84) 4-Methylpyrene	41.693	216	6229m	20.77	ng/mL	
85) 1-Methylpyrene	41.811	216	4790	15.97	ng/mL#	77
86) C2-Fluoranthenes/pyrenes	43.023	230	32752m	109.20	ng/mL	
87) C3-Fluoranthenes/pyrenes	44.880	244	19289m	64.31	ng/mL	
88) Benz(a)anthracene	44.325	228	50788m	202.65	ng/mL	
89) Chrysene	44.486	228	56254	215.04	ng/mL	99
90) C1-Benz(a)anthracenes/...	45.981	242	23927m	91.46	ng/mL	
91) C2-Benz(a)anthracenes/...	47.704	256	11930m	45.60	ng/mL	
92) C3-Benz(a)anthracenes/...	50.501	270	13394m	51.20	ng/mL	
93) C4-Benz(a)anthracenes/...	51.733	284	7881m	30.13	ng/mL	
94) Benzo(b)fluoranthene	48.392	252	56439	205.13	ng/mL	99
95) Benzo(k)fluoranthene	48.465	252	57541	183.47	ng/mL	100
96) Benzo(e)pyrene	49.325	252	47048	169.37	ng/mL	99
97) Benzo(a)pyrene	49.494	252	61899	248.50	ng/mL	99
98) Perylene	49.770	252	31993	129.81	ng/mL	100
99) Indeno(1,2,3-cd)pyrene	53.060	276	45133m	141.60	ng/mL	
100) Dibenz(a,h)anthracene	53.077	278	13318	47.23	ng/mL#	33
101) Benzo(g,h,i)perylene	53.876	276	53032	165.16	ng/mL	99
102) Coronene	59.847	300	13544	44.05	ng/mL	97
103) C-17	31.769	85	10483m	199.10	ng/mL	
104) Pristane	31.884	85	5516	140.04	ng/mL#	84
105) C-18	33.568	85	11247	214.89	ng/mL#	91
106) Phytane	33.753	85	5232	100.77	ng/mL#	66

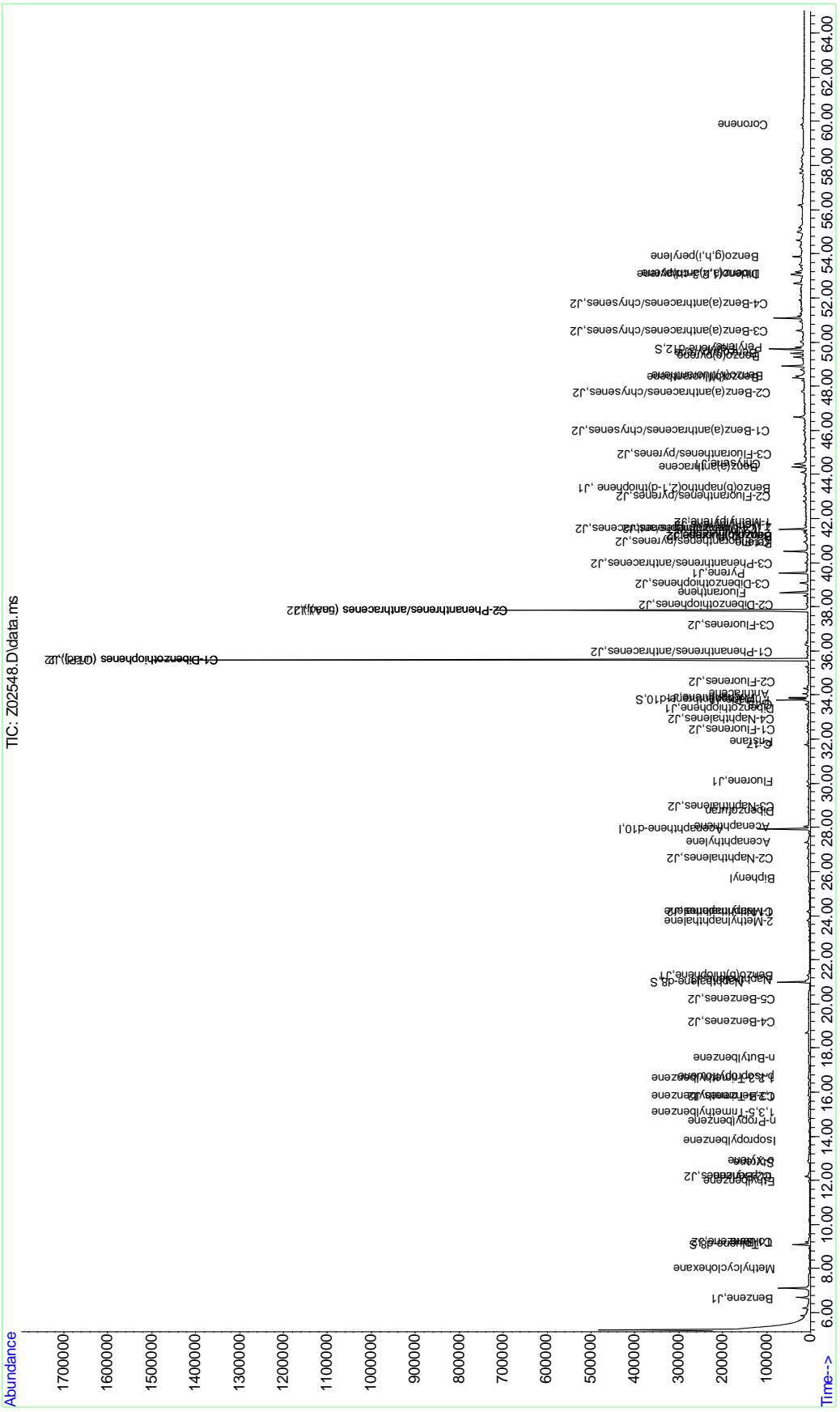
(#) = qualifier out of range (m) = manual integration (+) = signals summed

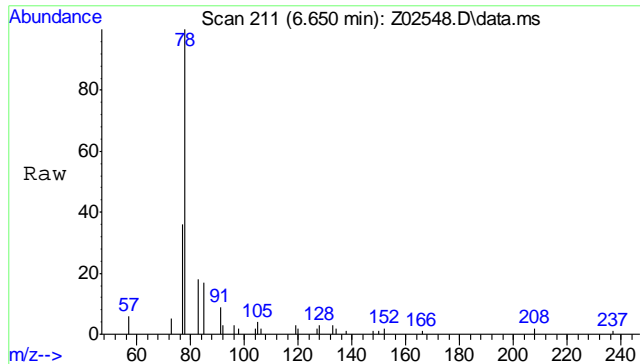
Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02548.D
Sample : mc30898-2
Misc : op38366,msz101,5.91,,,2,1
ALS Vial : 8 Sample Multiplier: 1
Acq On : 6 Jun 2014 10:09 am

Operator: sofyaz

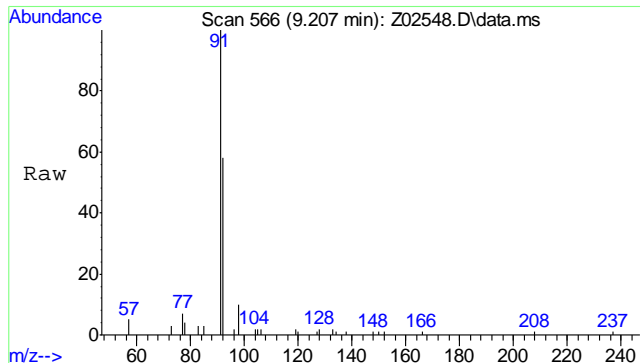
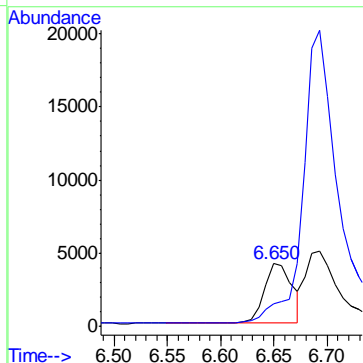
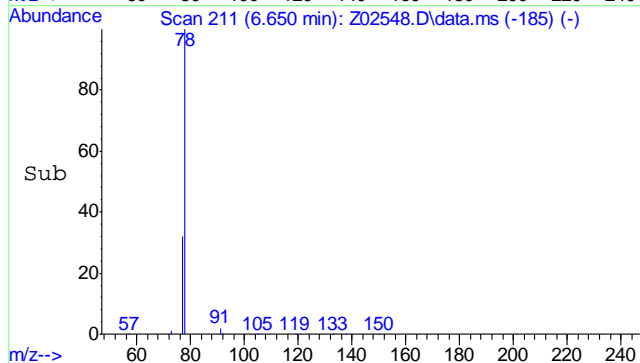
Quant Time: Jun 10 11:03:22 2014
Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M
Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM





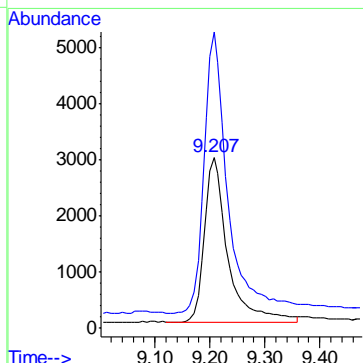
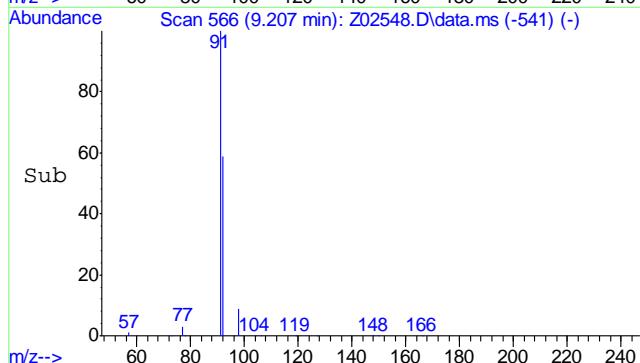
#7
 Benzene
 Concen: 39.18 ng/mL
 RT: 6.650 min Scan# 211
 Delta R.T. -0.014 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
78	100		
77	0.0	18.1	27.1#

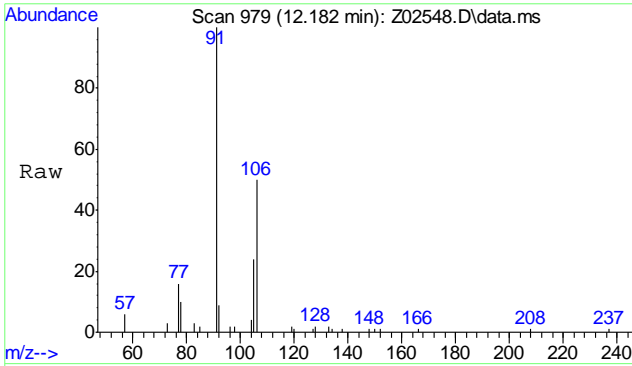


#8
 Cl-Benzene
 Concen: 46.46 ng/mL
 RT: 9.207 min Scan# 566
 Delta R.T. -0.022 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
92	100		
91	177.8	135.7	203.5

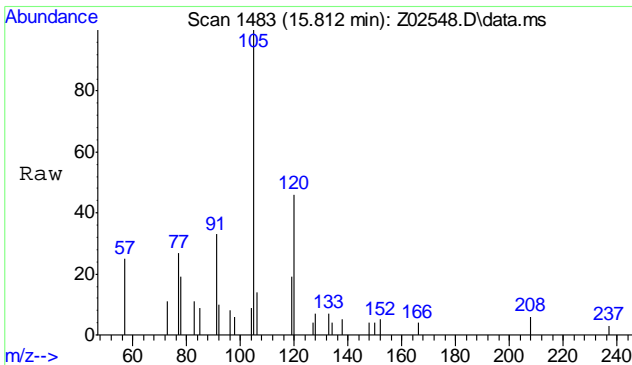
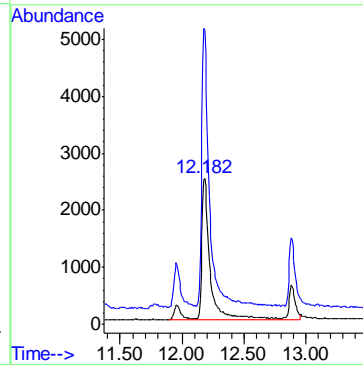
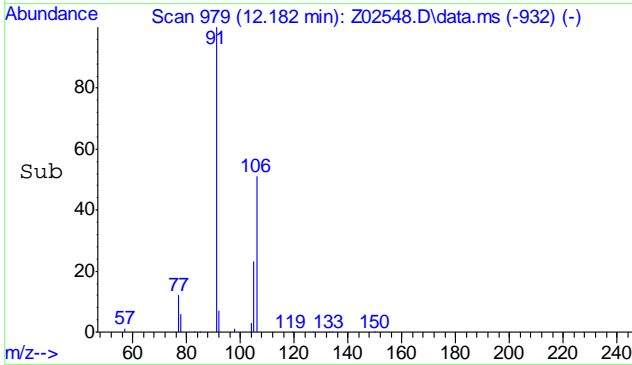


7.1.2
7



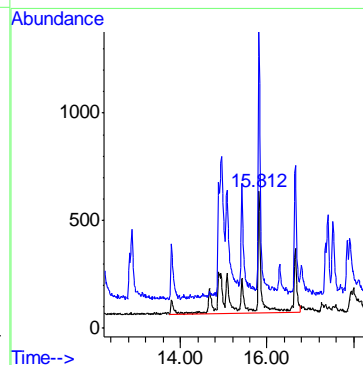
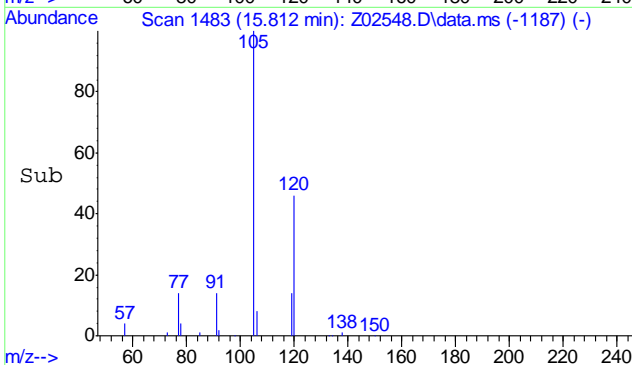
#9
 C2-Benzenes
 Concen: 77.71 ng/mL m
 RT: 12.182 min Scan# 979
 Delta R.T. -0.022 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:106	Resp:	14705
Ion Ratio	Lower	Upper
106	100	
91	137.5	154.4 231.6#

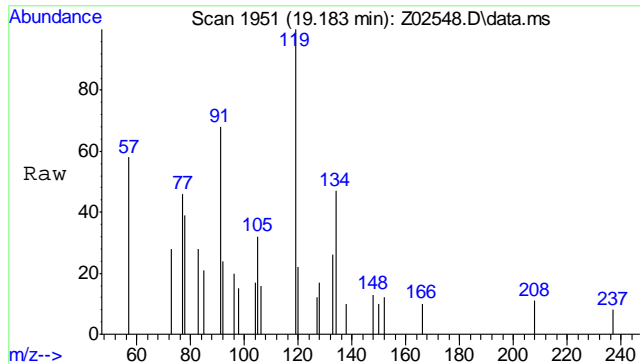


#10
 C3-Benzenes
 Concen: 44.16 ng/mL m
 RT: 15.812 min Scan# 1483
 Delta R.T. -0.015 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:120	Resp:	8357
Ion Ratio	Lower	Upper
120	100	
105	48.3	169.7 254.5#

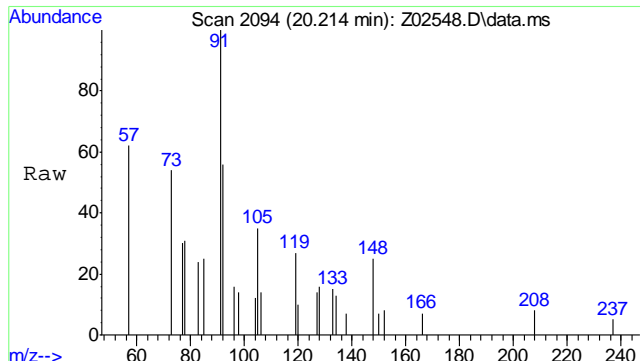
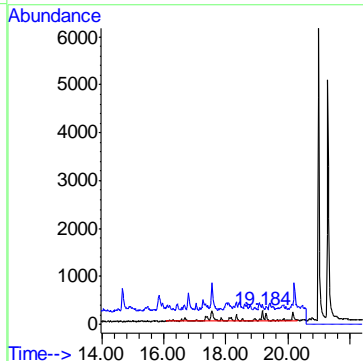
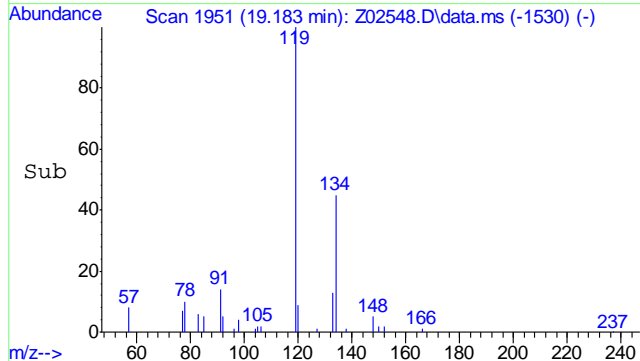


7.12
7



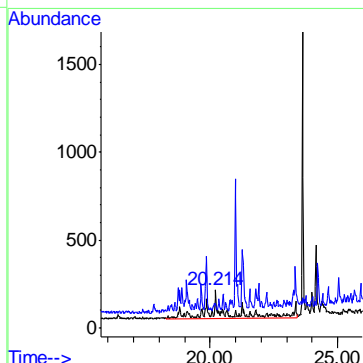
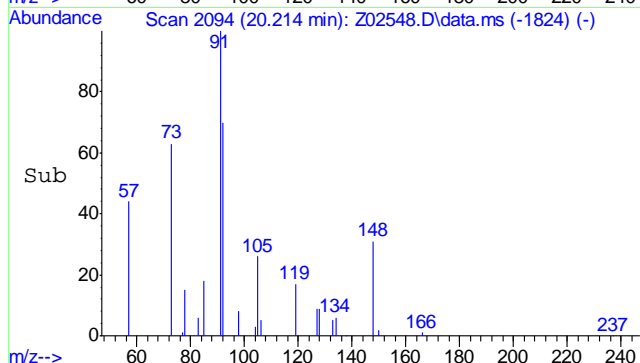
#11
 C4-Benzenes
 Concen: 44.59 ng/mL m
 RT: 19.183 min Scan# 1951
 Delta R.T. -1.021 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:134	Resp:	8437
Ion Ratio	Lower	Upper
134	100	
91	0.0	30.7 46.1#

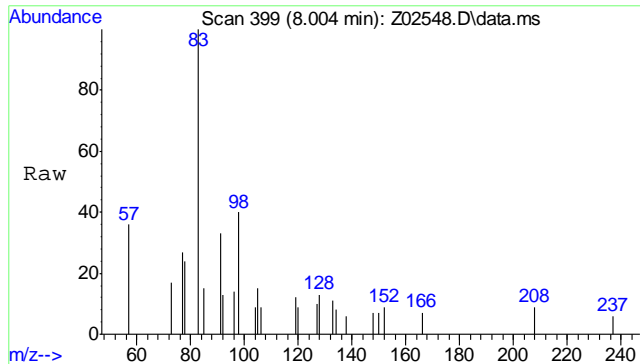


#12
 C5-Benzenes
 Concen: 38.32 ng/mL m
 RT: 20.214 min Scan# 2094
 Delta R.T. 0.285 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:148	Resp:	7251
Ion Ratio	Lower	Upper
148	100	
133	0.0	136.5 204.7#

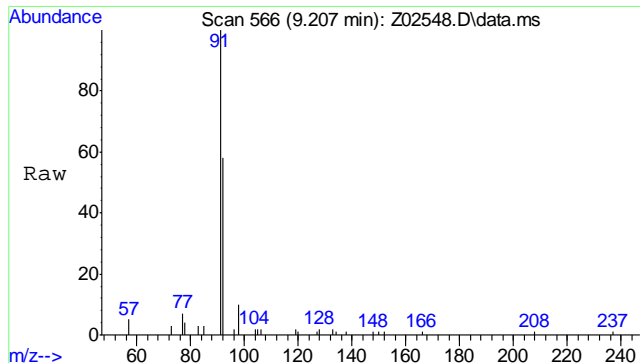
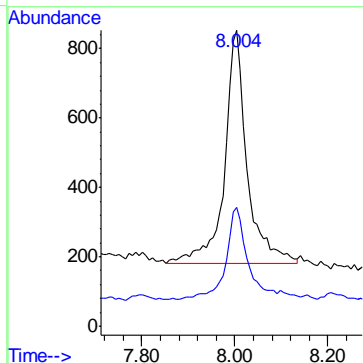
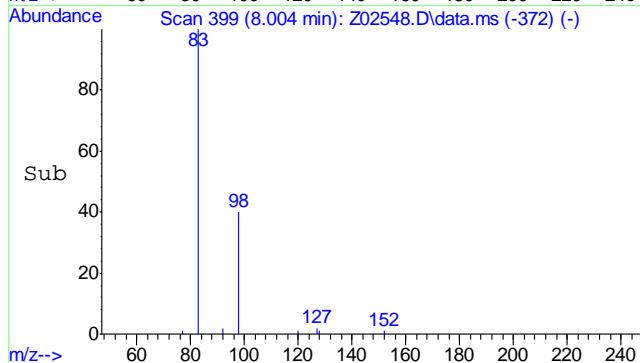


7.12
7



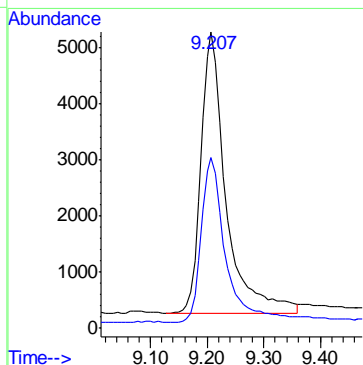
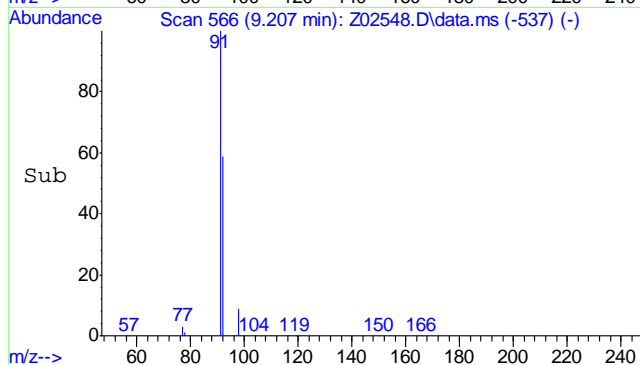
#13
 Methylcyclohexane
 Concen: 29.21 ng/mL
 RT: 8.004 min Scan# 399
 Delta R.T. -0.007 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
83	100		
98	38.4	33.6	50.4

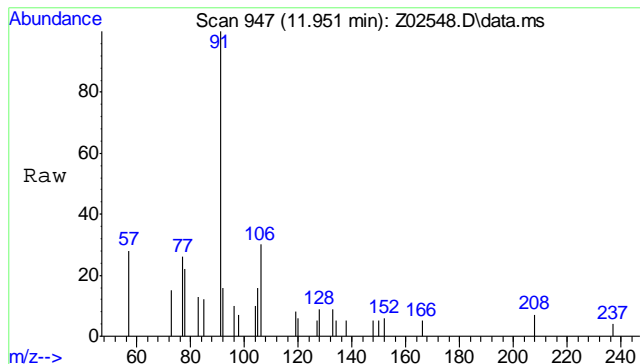


#14
 Toluene
 Concen: 74.53 ng/mL
 RT: 9.207 min Scan# 566
 Delta R.T. 0.007 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
91	100		
92	57.2	47.0	70.4

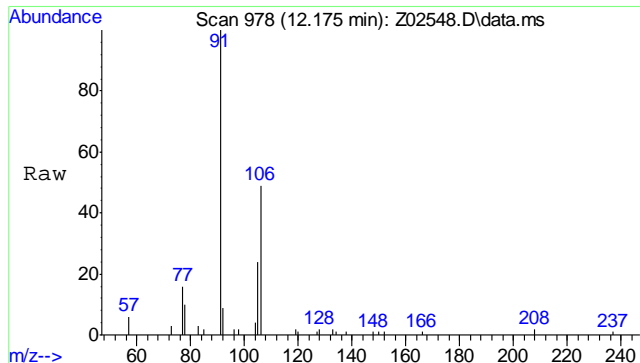
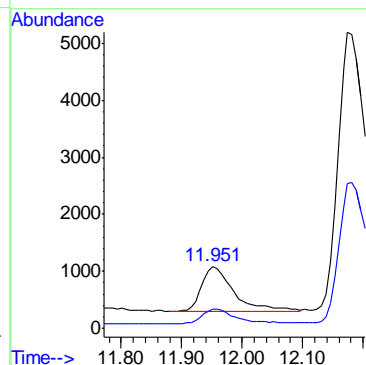
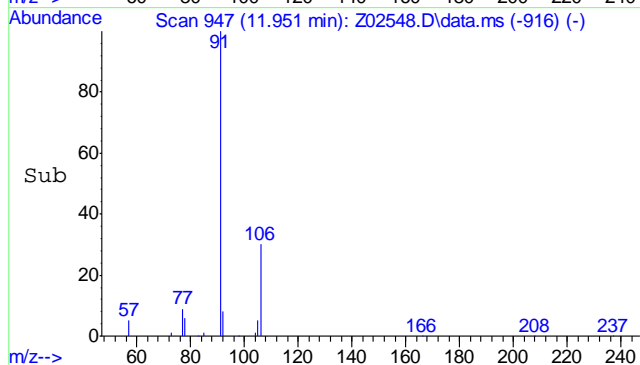


7.1.2
7



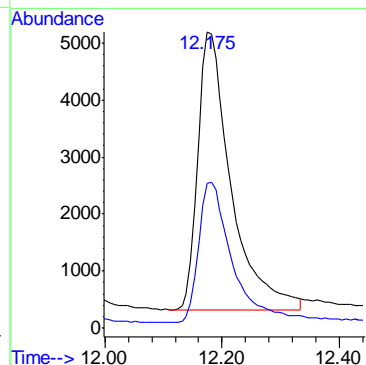
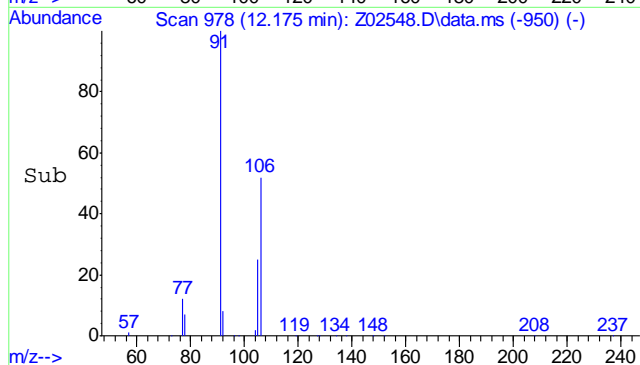
#15
 Ethylbenzene
 Concen: 14.11 ng/mL
 RT: 11.951 min Scan# 947
 Delta R.T. 0.021 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	35.0	24.3	36.5

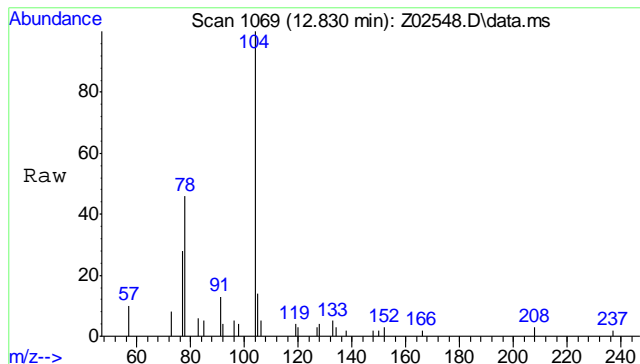


#16
 m,p-xylene
 Concen: 119.90 ng/mL
 RT: 12.175 min Scan# 978
 Delta R.T. -0.000 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	51.0	39.7	59.5

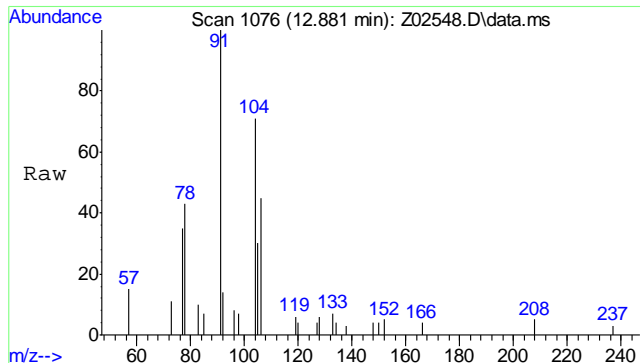
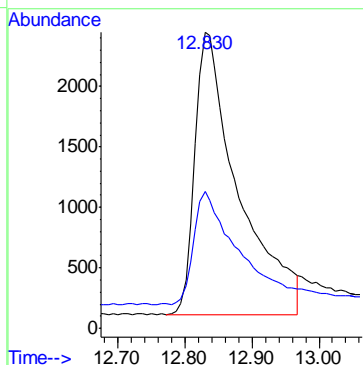
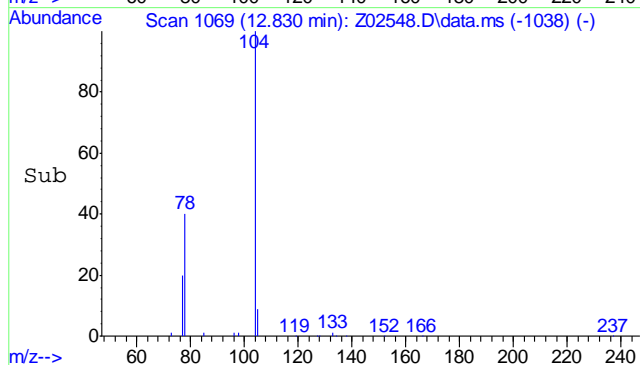


7.12
7



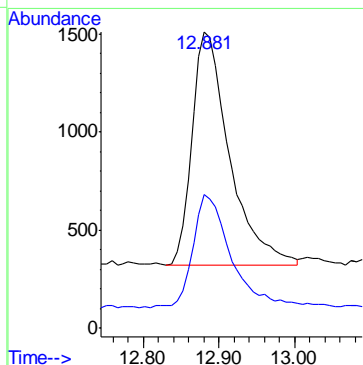
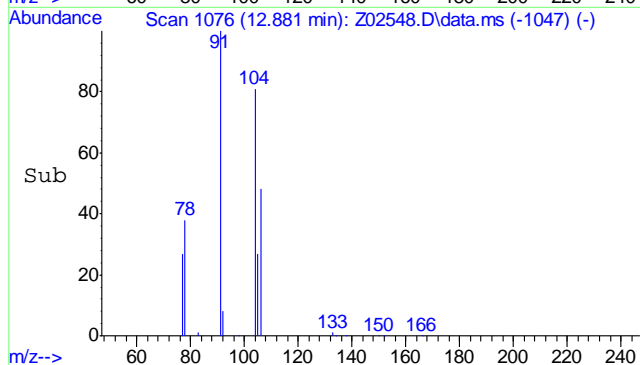
#17
 Styrene
 Concen: 87.81 ng/mL
 RT: 12.830 min Scan# 1069
 Delta R.T. 0.021 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
104	100		
78	41.7	33.0	49.4

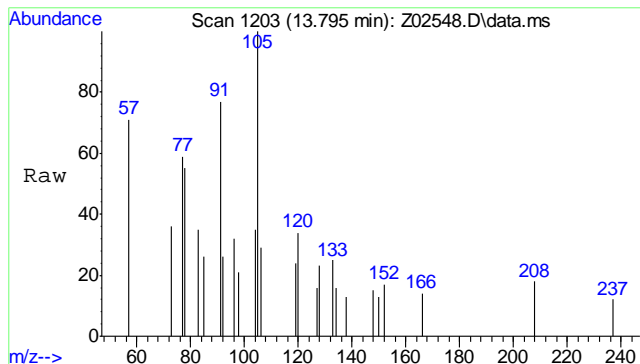


#18
 o-Xylene
 Concen: 23.51 ng/mL
 RT: 12.881 min Scan# 1076
 Delta R.T. 0.007 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	50.0	37.6	56.4

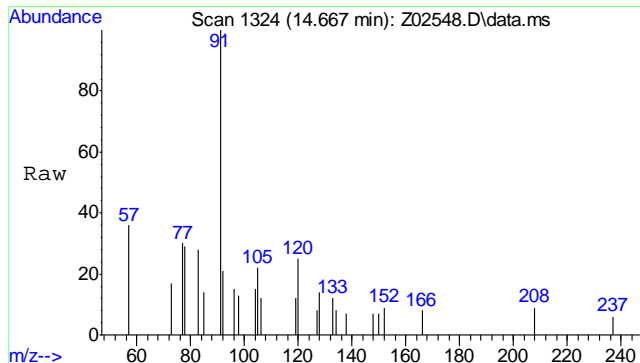
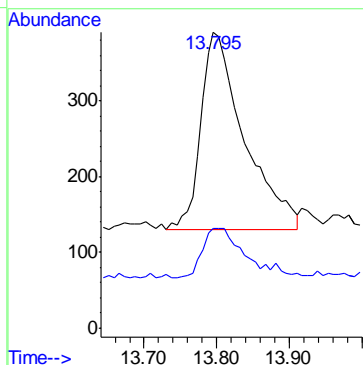
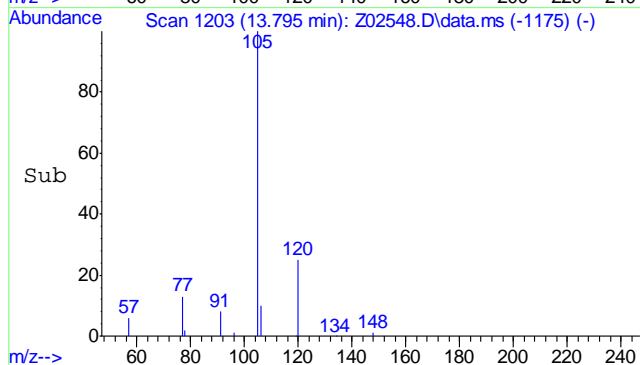


7.1.2
7



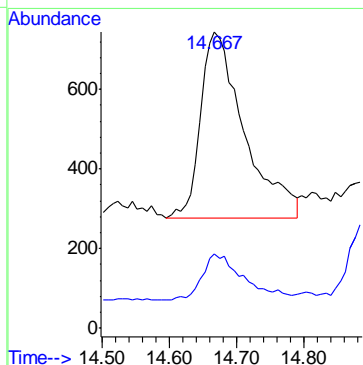
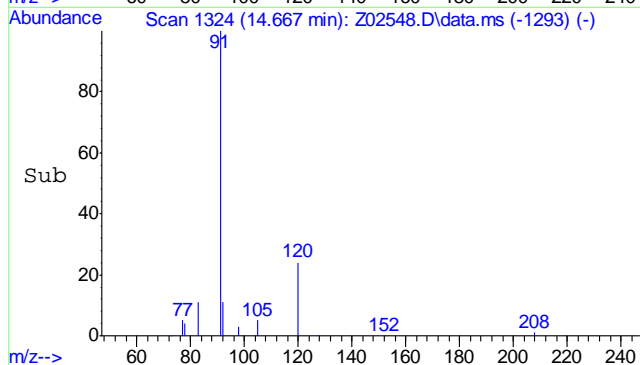
#19
 Isopropylbenzene
 Concen: 5.32 ng/mL
 RT: 13.795 min Scan# 1203
 Delta R.T. -0.001 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
105	100		
120	25.7	20.7	31.1

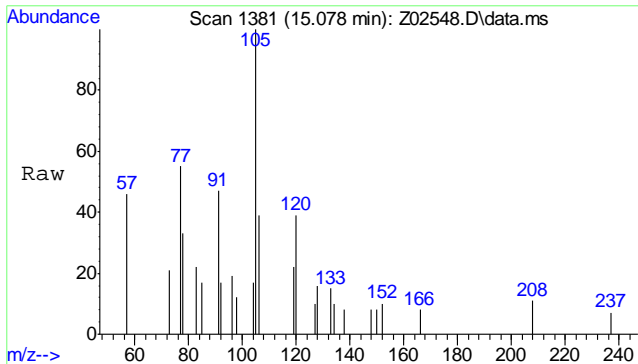


#20
 n-Propylbenzene
 Concen: 8.83 ng/mL
 RT: 14.667 min Scan# 1324
 Delta R.T. 0.021 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
91	100		
120	23.6	18.2	27.2

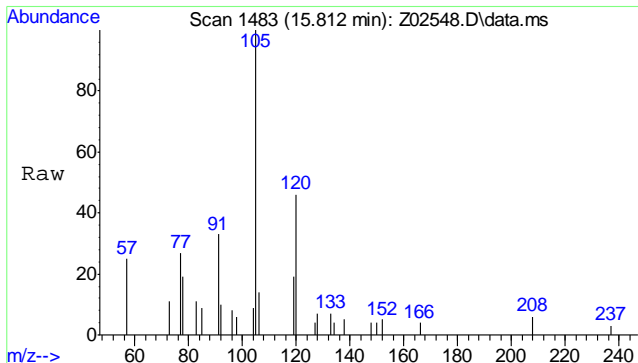
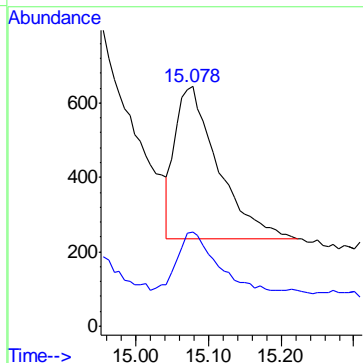
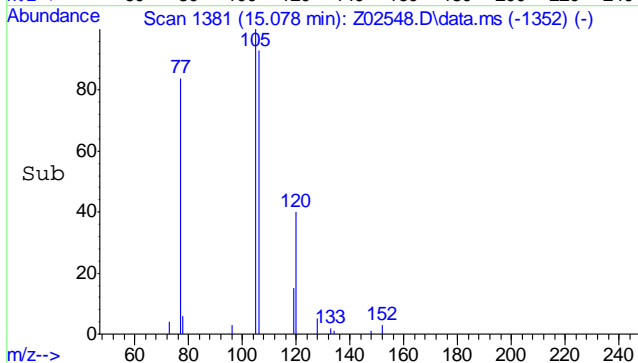


7.12
7



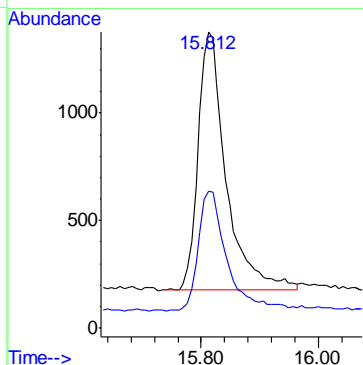
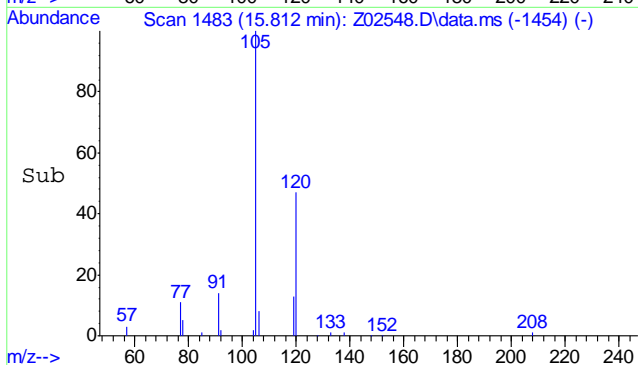
#21
 1,3,5-Trimethylbenzene
 Concen: 9.11 ng/mL
 RT: 15.078 min Scan# 1381
 Delta R.T. 0.007 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
105	100		
120	34.1	39.2	58.8#

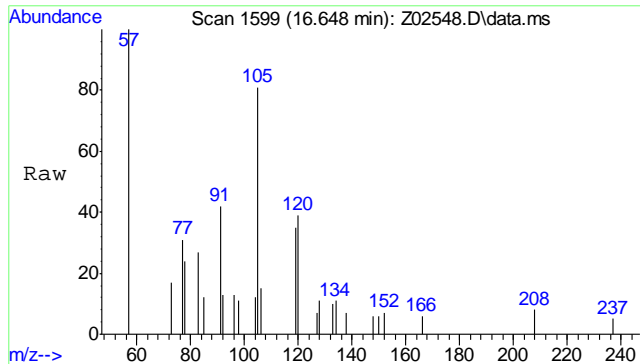


#23
 1,2,4-Trimethylbenzene
 Concen: 22.57 ng/mL
 RT: 15.812 min Scan# 1483
 Delta R.T. 0.007 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
105	100		
120	48.0	37.9	56.9

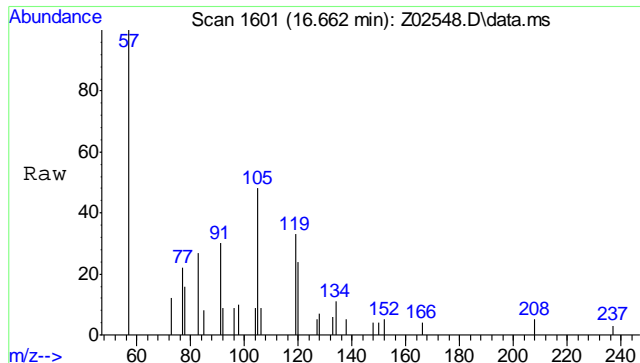
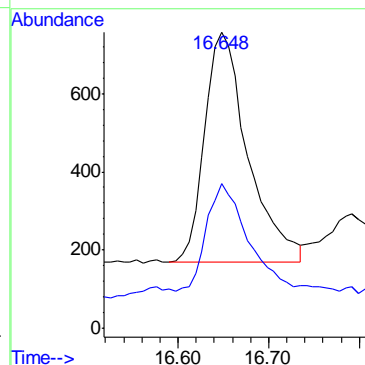
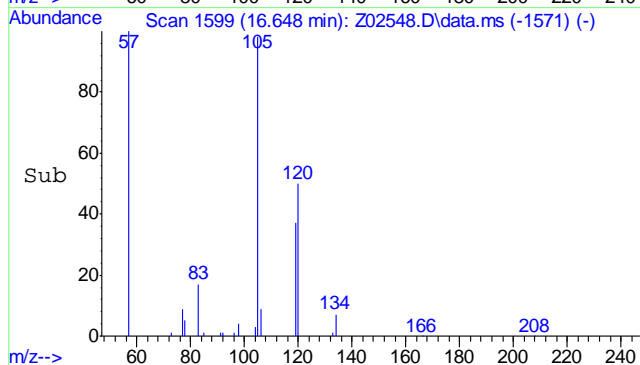


7.12
7



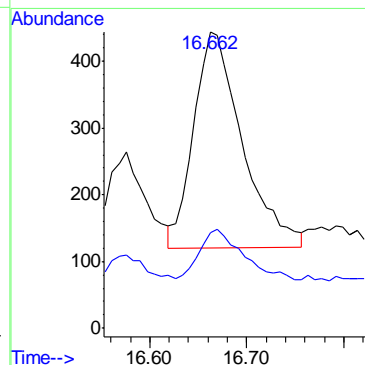
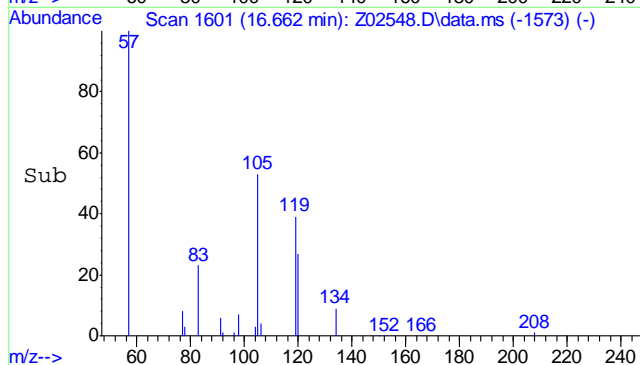
#25
 1,2,3-Trimethylbenzene
 Concen: 9.93 ng/mL
 RT: 16.648 min Scan# 1599
 Delta R.T. -0.000 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
105	1950		
105	100		
120	46.5	36.3	54.5

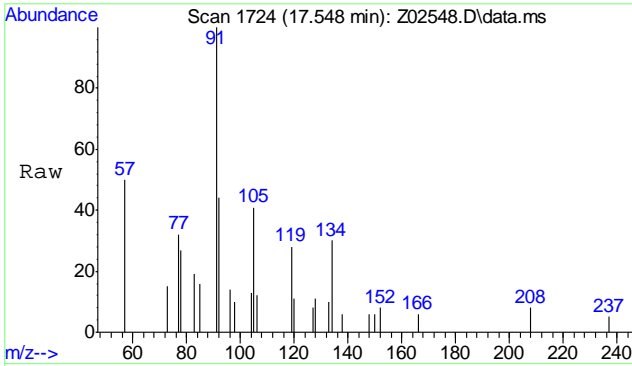


#26
 p-Isopropyltoluene
 Concen: 5.14 ng/mL m
 RT: 16.662 min Scan# 1601
 Delta R.T. -0.001 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
119	1132		
119	100		
134	21.3	18.9	28.3

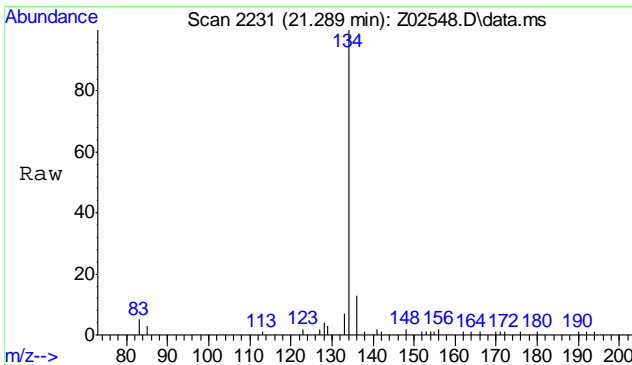
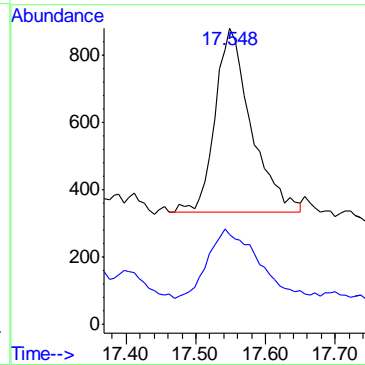
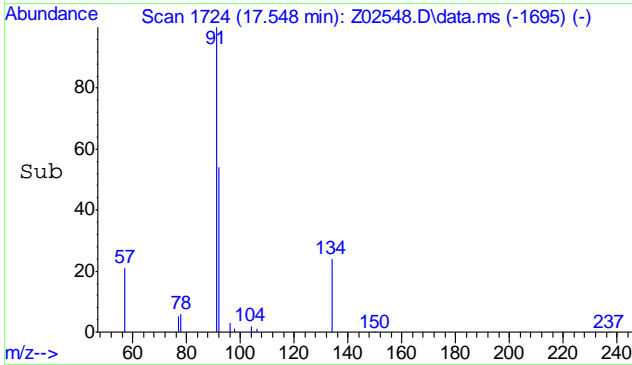


7.12
7



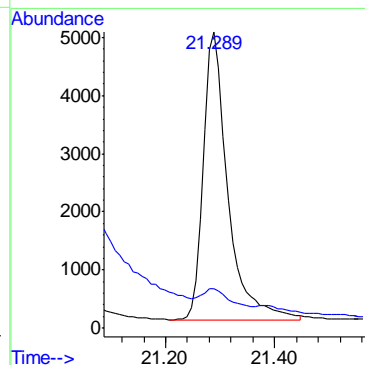
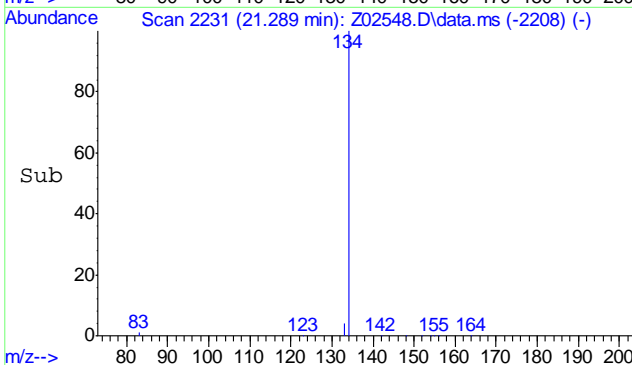
#27
 n-Butylbenzene
 Concen: 10.78 ng/mL
 RT: 17.548 min Scan# 1724
 Delta R.T. 0.007 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
91	1968	100	
134	51.2	19.5	29.3#

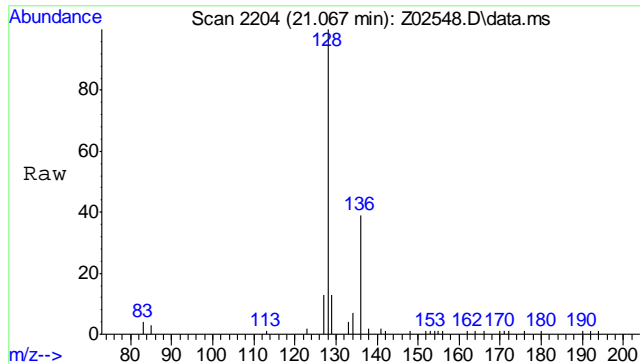


#34
 Benzo(b)thiophene
 Concen: 66.20 ng/mL
 RT: 21.289 min Scan# 2231
 Delta R.T. -0.009 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
134	15255	100	
136	6.2	4.5	6.7

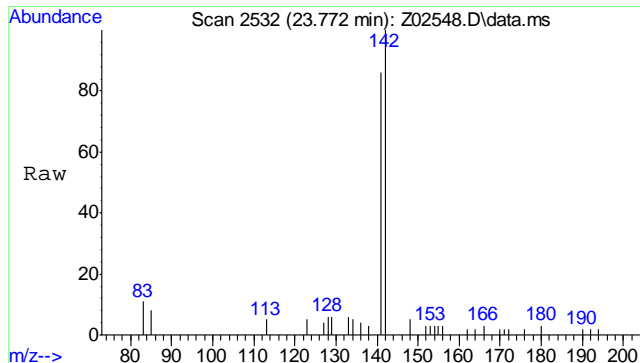
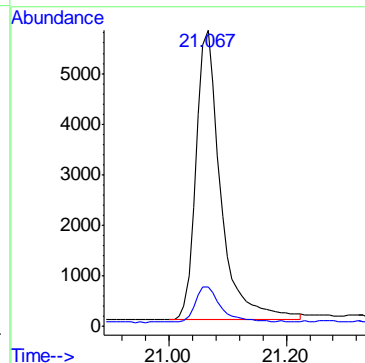
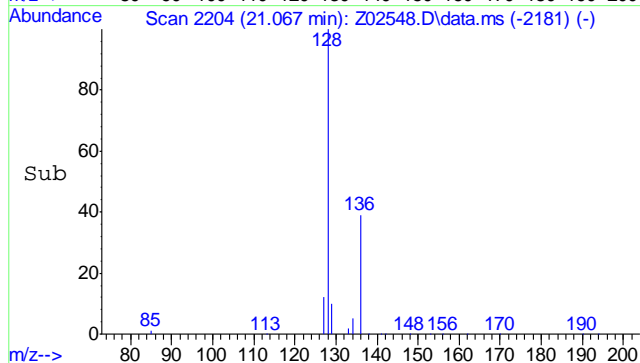


7.12
7



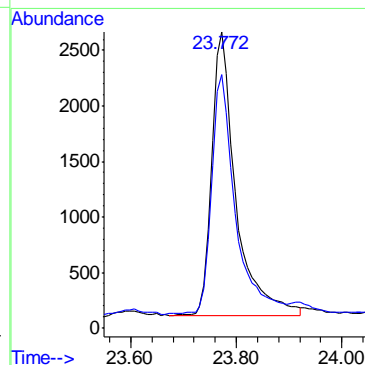
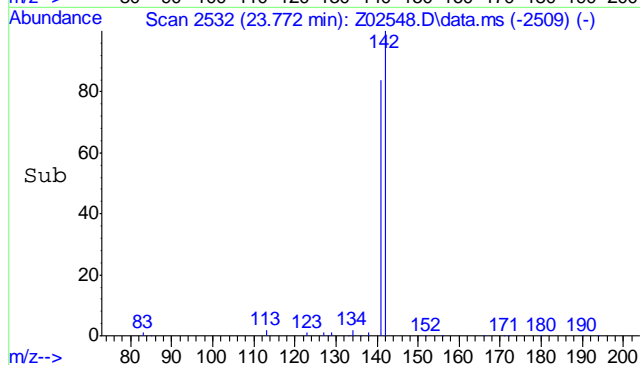
#44
 Naphthalene
 Concen: 58.16 ng/mL
 RT: 21.067 min Scan# 2204
 Delta R.T. -0.008 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
128	100		
127	12.9	9.9	14.9

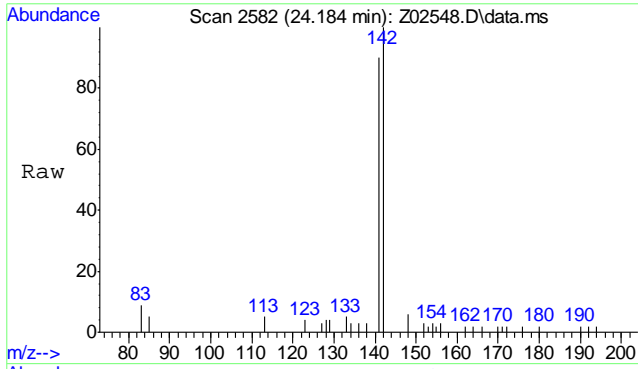


#45
 2-Methylnaphthalene
 Concen: 44.47 ng/mL
 RT: 23.772 min Scan# 2532
 Delta R.T. -0.008 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
142	100		
141	83.8	68.5	102.7

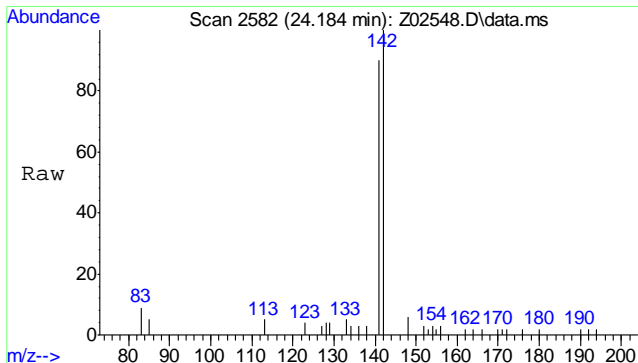
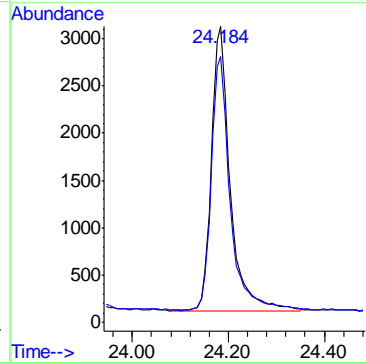
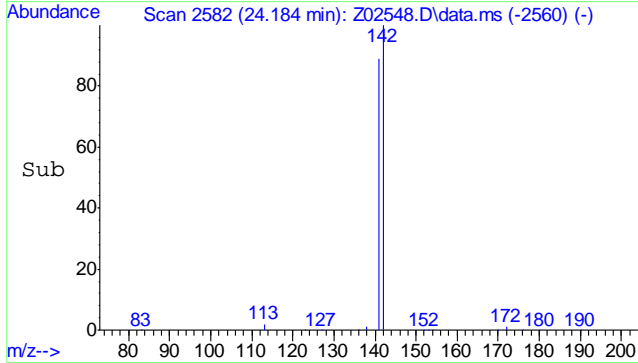


7.12
7



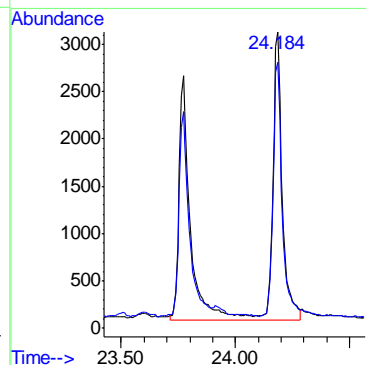
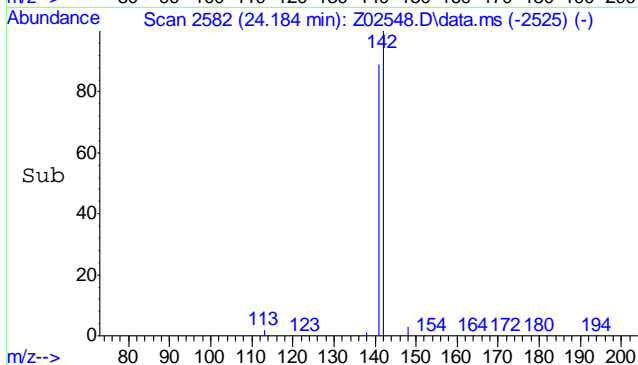
#46
 1-Methylnaphthalene
 Concen: 42.33 ng/mL
 RT: 24.184 min Scan# 2582
 Delta R.T. -0.017 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.1	106.7

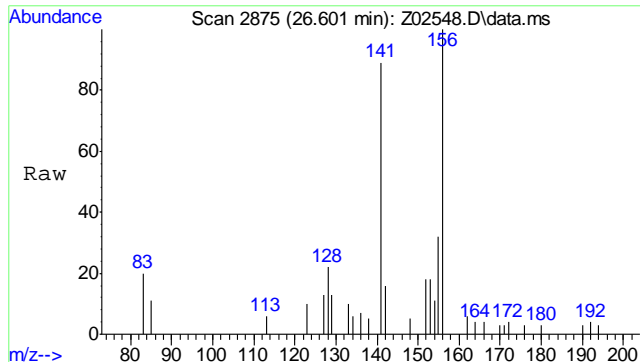


#47
 Cl-Naphthalenes
 Concen: 60.70 ng/mL m
 RT: 24.184 min Scan# 2582
 Delta R.T. 0.397 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Ratio	Lower	Upper
142	100		
141	36.8	68.5	102.7#

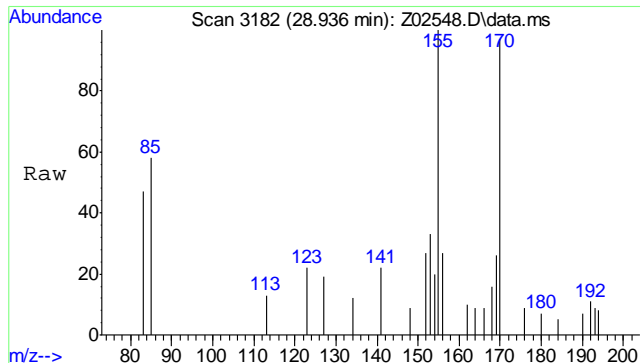
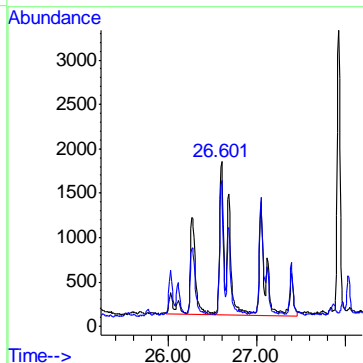
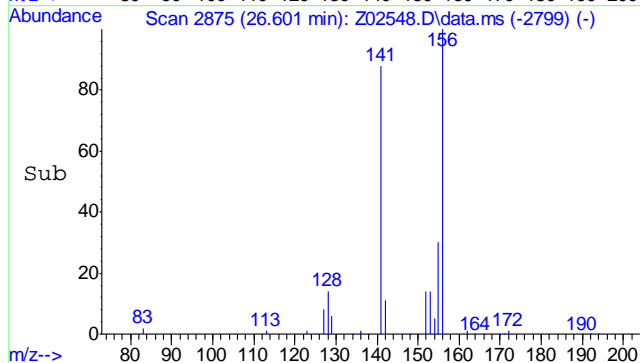


7.12
7



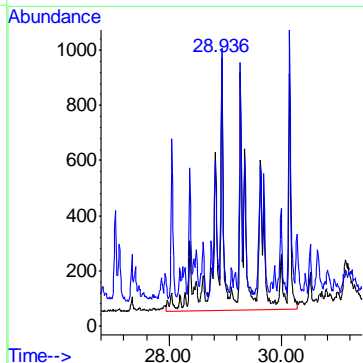
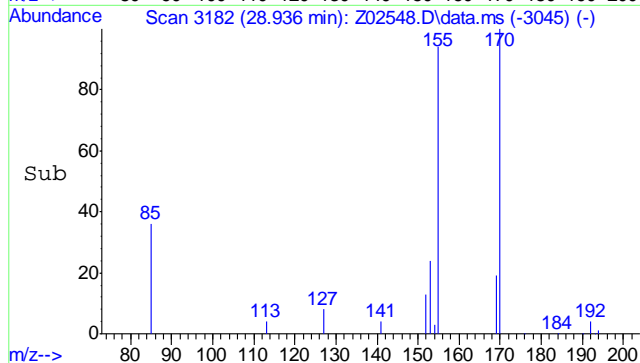
#48
 C2-Naphthalenes
 Concen: 76.40 ng/mL m
 RT: 26.601 min Scan# 2875
 Delta R.T. -0.107 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	156	Resp:	22090
Ion Ratio	156	Lower	Upper
	141	11.9	58.1
			87.1#

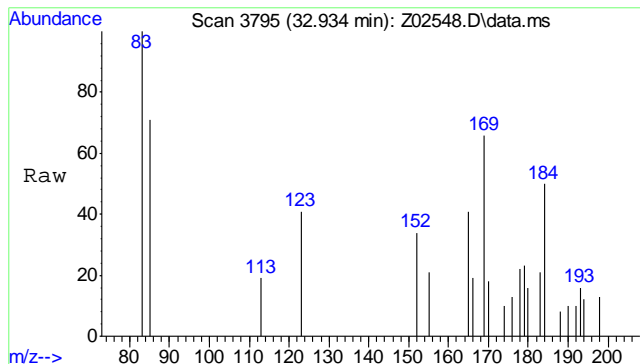


#49
 C3-Naphthalenes
 Concen: 62.65 ng/mL m
 RT: 28.936 min Scan# 3182
 Delta R.T. -0.014 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	170	Resp:	18114
Ion Ratio	170	Lower	Upper
	155	12.3	75.6
			113.4#

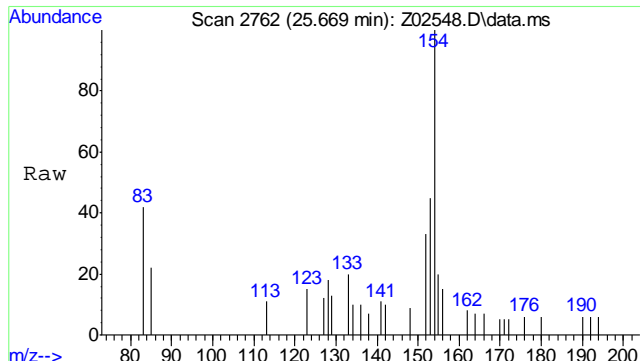
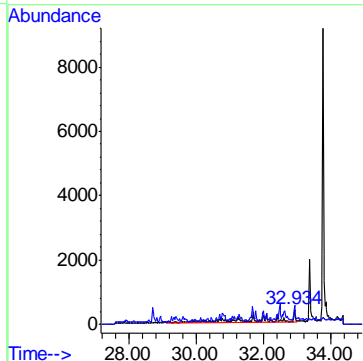
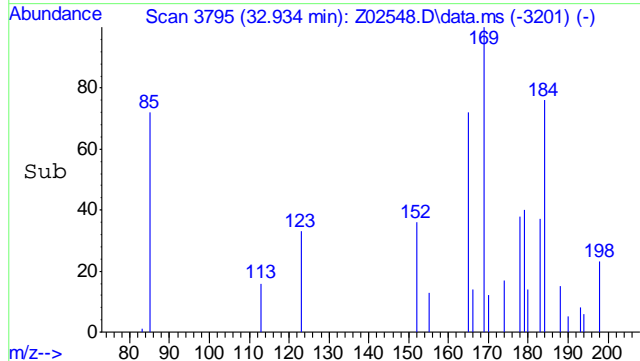


7.12
7



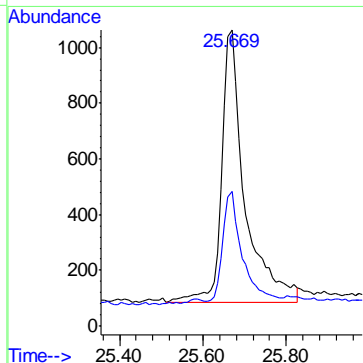
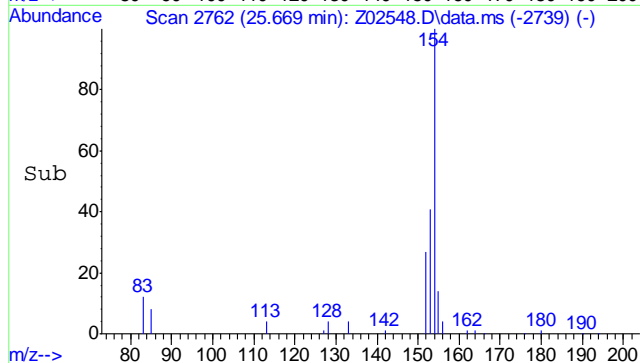
#50
 C4-Naphthalenes
 Concen: 41.37 ng/mL m
 RT: 32.934 min Scan# 3795
 Delta R.T. 1.264 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
184	100		
169	11.8	3.0	4.4#

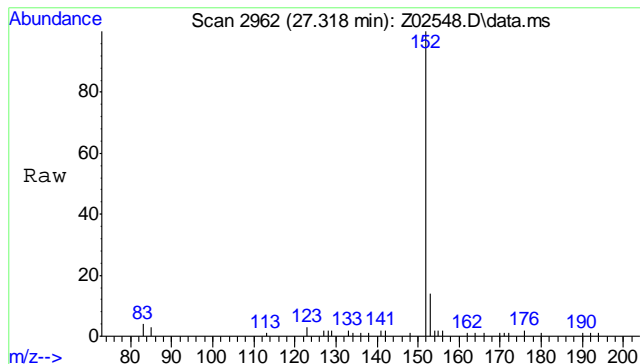


#51
 Biphenyl
 Concen: 16.08 ng/mL
 RT: 25.669 min Scan# 2762
 Delta R.T. -0.008 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
154	100		
153	33.7	31.7	47.5

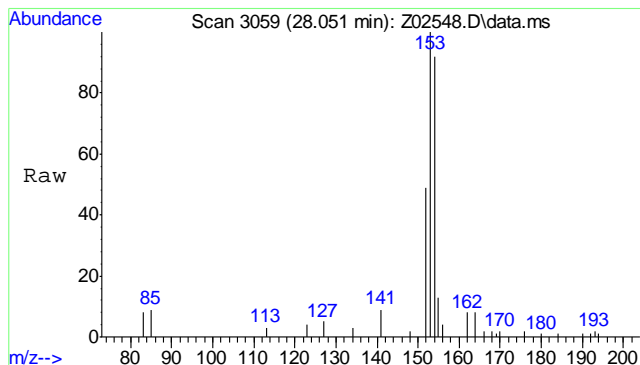
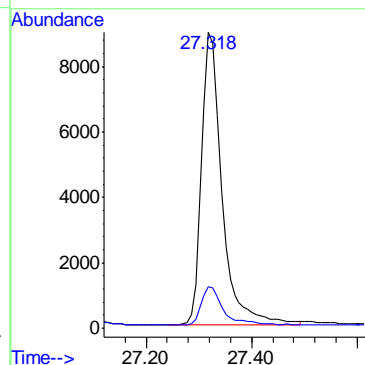
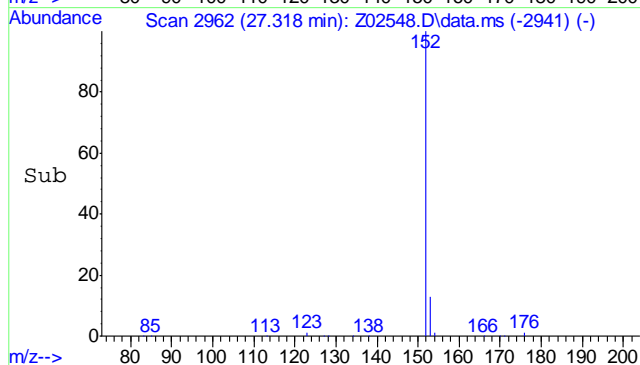


7.12
7



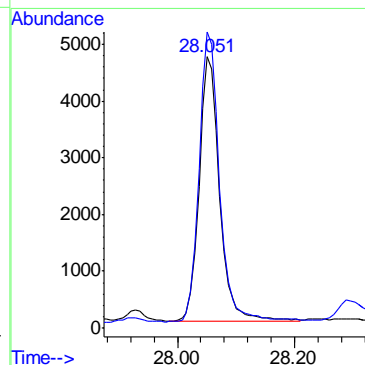
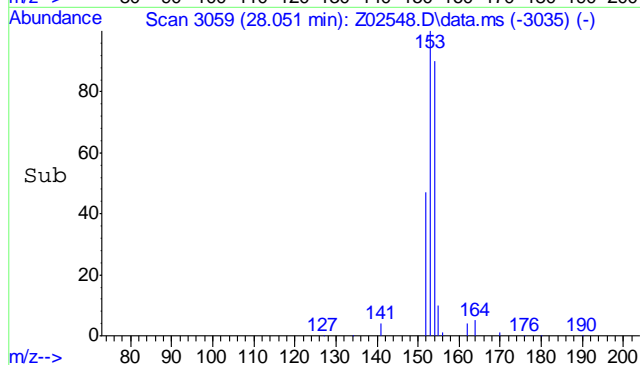
#52
 Acenaphthylene
 Concen: 85.57 ng/mL
 RT: 27.318 min Scan# 2962
 Delta R.T. -0.025 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
152	100		
153	14.5	10.3	15.5

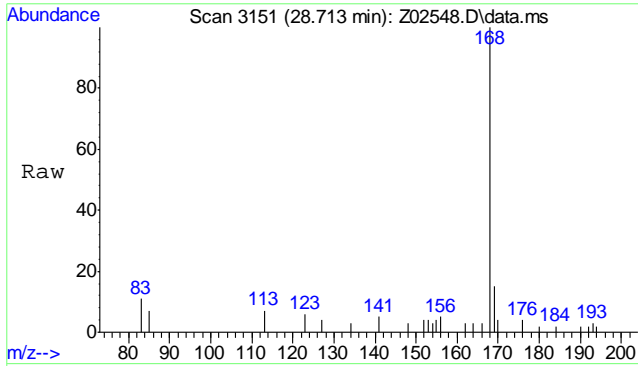


#53
 Acenaphthene
 Concen: 64.31 ng/mL
 RT: 28.051 min Scan# 3059
 Delta R.T. -0.029 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
154	100		
153	110.1	88.8	133.2

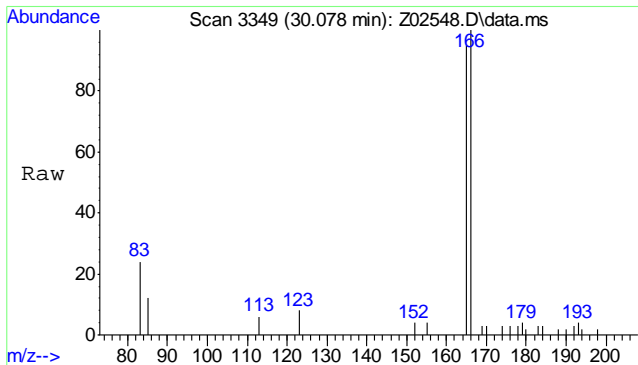
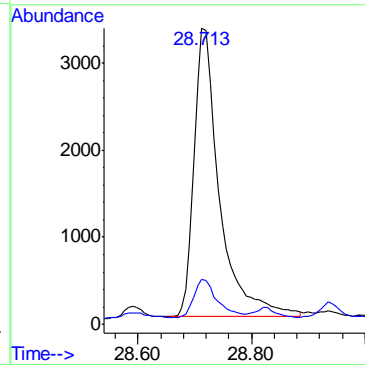
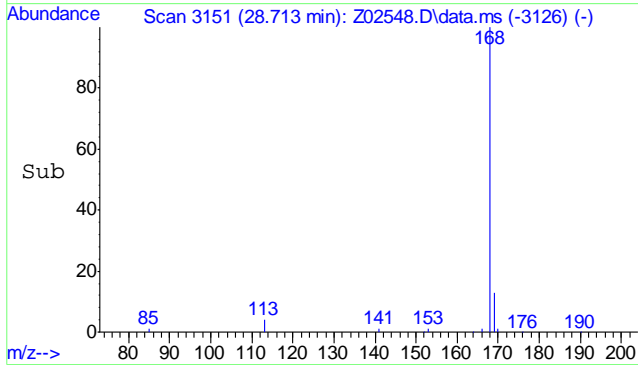


7.12
7



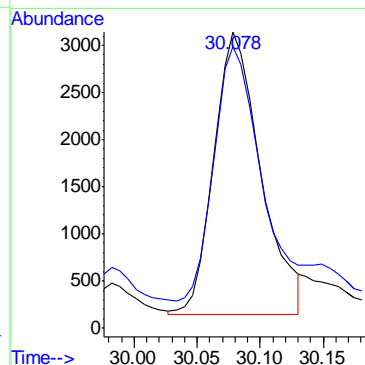
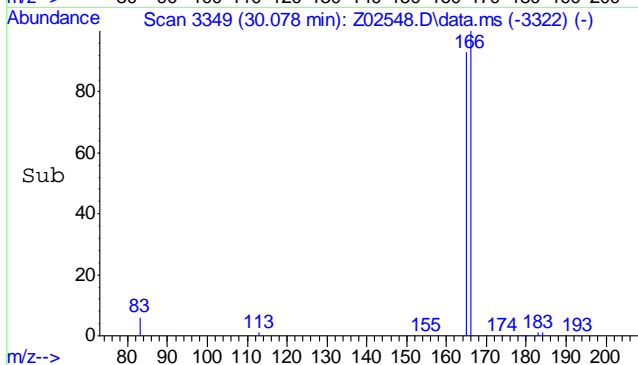
#54
 Dibenzofuran
 Concen: 42.25 ng/mL
 RT: 28.713 min Scan# 3151
 Delta R.T. -0.021 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:168	Resp:	10257
Ion Ratio	Lower	Upper
168	100	
169	12.5	10.4 15.6

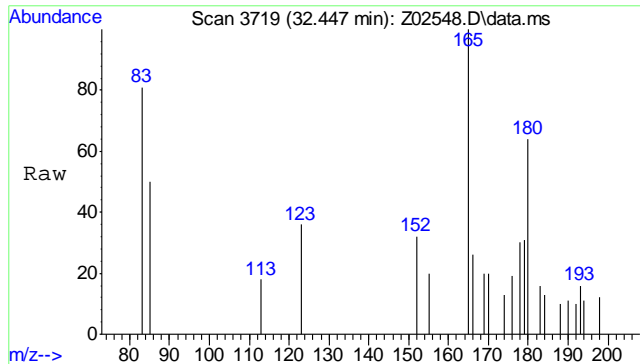


#55
 Fluorene
 Concen: 39.50 ng/mL m
 RT: 30.078 min Scan# 3349
 Delta R.T. -0.026 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:166	Resp:	7722
Ion Ratio	Lower	Upper
166	100	
165	109.8	75.4 113.2

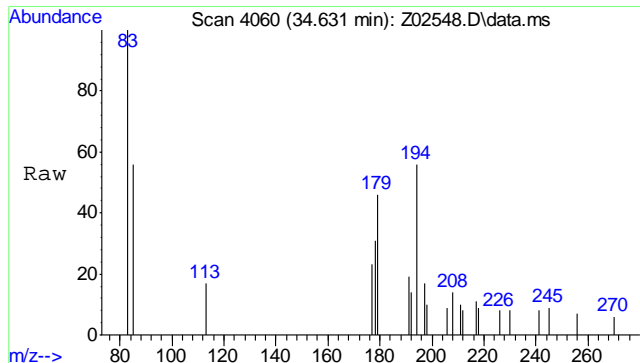
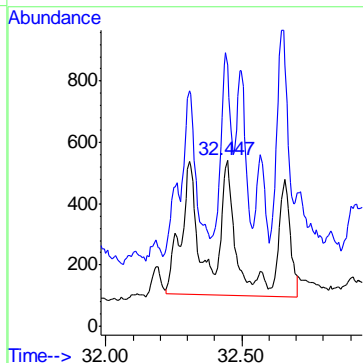
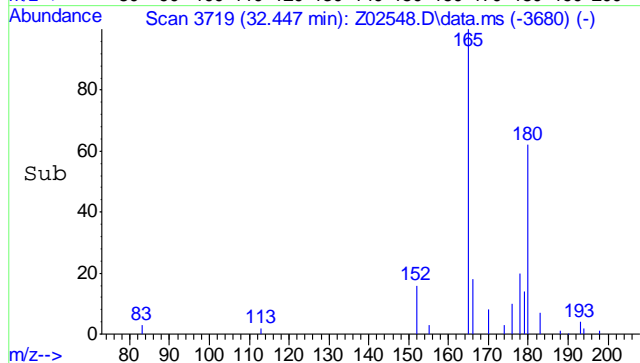


7.12
7



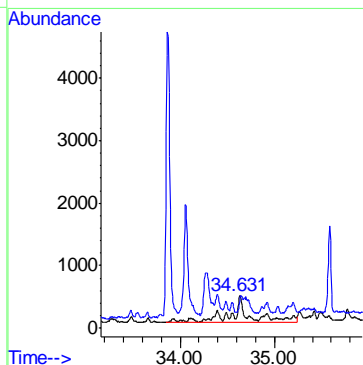
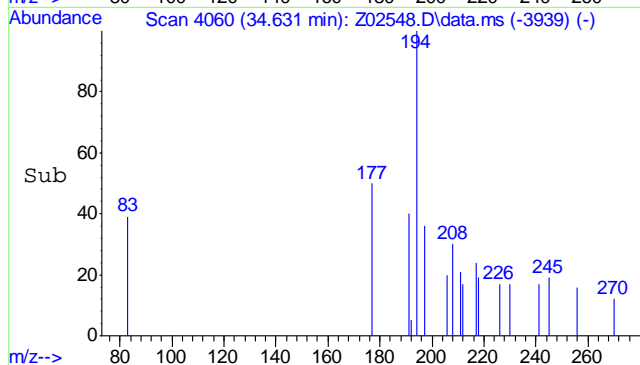
#56
 C1-Fluorenes
 Concen: 23.67 ng/mL m
 RT: 32.447 min Scan# 3719
 Delta R.T. 0.011 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:180	Resp:	4628
Ion Ratio	Lower	Upper
180	100	
165	31.1	121.1 181.7#

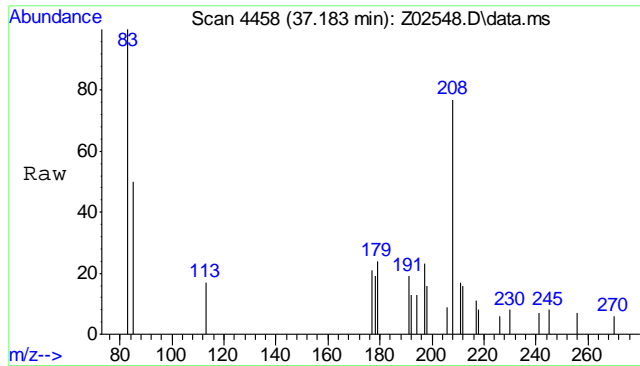


#57
 C2-Fluorenes
 Concen: 32.16 ng/mL m
 RT: 34.631 min Scan# 4060
 Delta R.T. 0.008 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:194	Resp:	6287
Ion Ratio	Lower	Upper
194	100	
179	10.7	110.2 165.4#

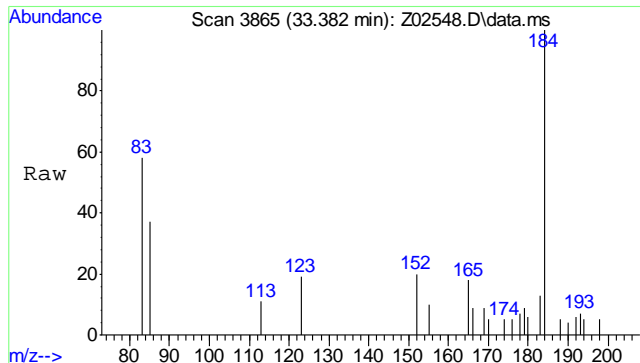
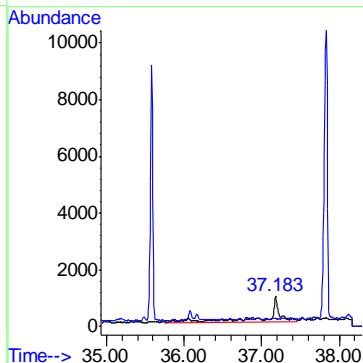
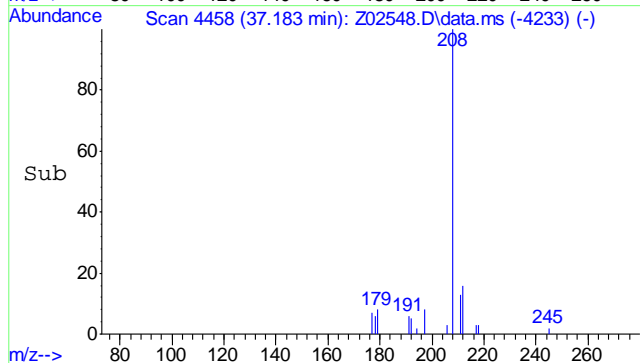


7.1.2
7



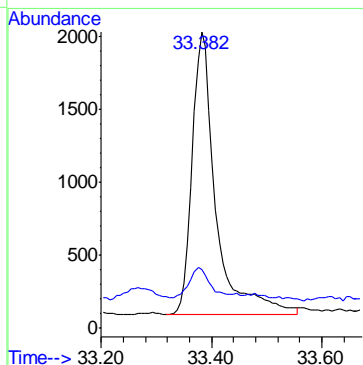
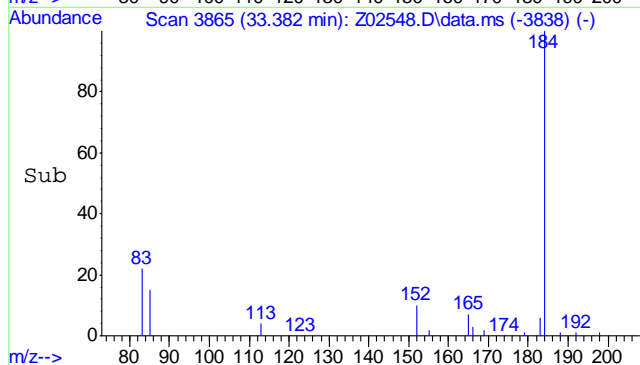
#58
 C3-Fluorenes
 Concen: 58.30 ng/mL m
 RT: 37.183 min Scan# 4458
 Delta R.T. 0.738 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
208	11396	100	
178	0.0	48.0	72.0#

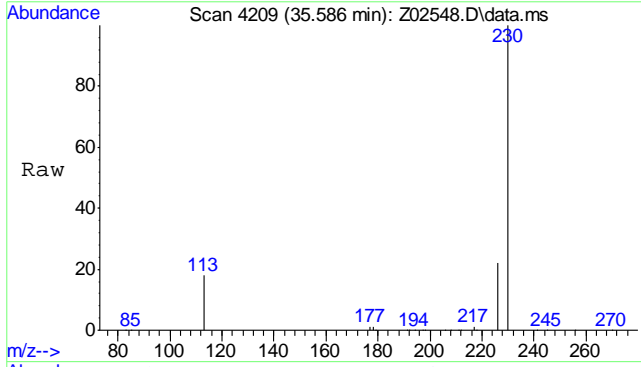


#59
 Dibenzothiophene
 Concen: 21.22 ng/mL
 RT: 33.382 min Scan# 3865
 Delta R.T. -0.026 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
184	5777	100	
152	9.9	7.4	11.0

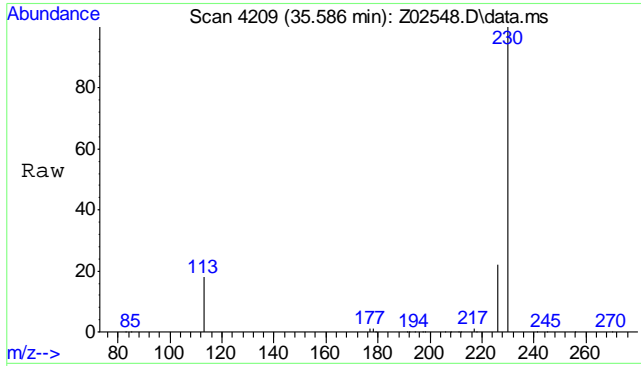
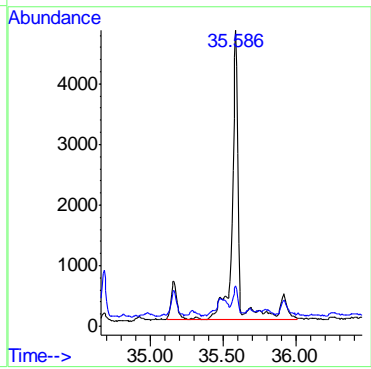
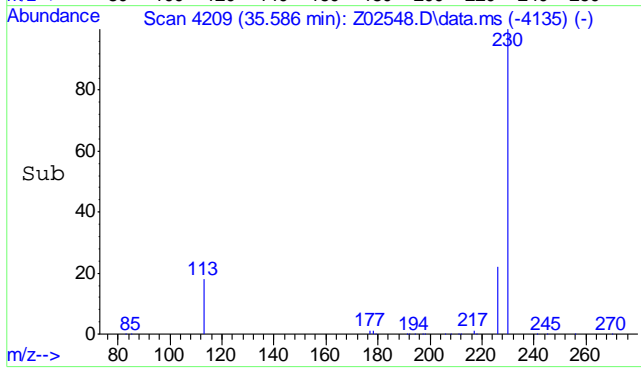


7.12
7



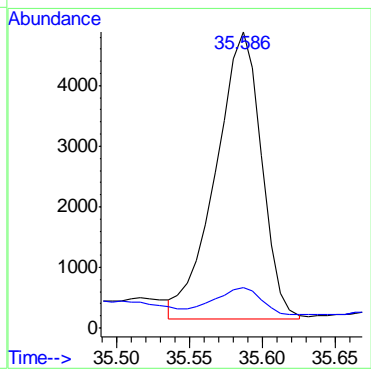
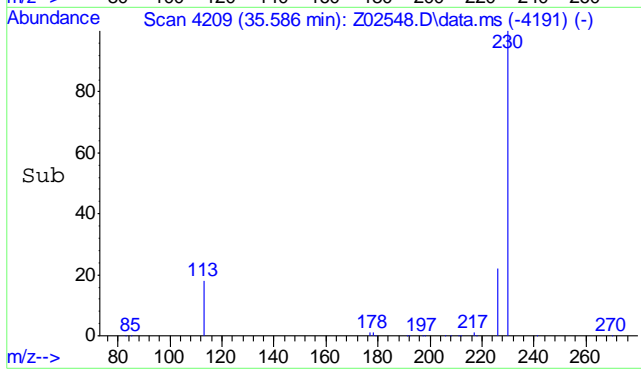
#60
 Cl-Dibenzothiophenes (unadj)
 Concen: 64.20 ng/mL m
 RT: 35.586 min Scan# 4209
 Delta R.T. 0.453 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

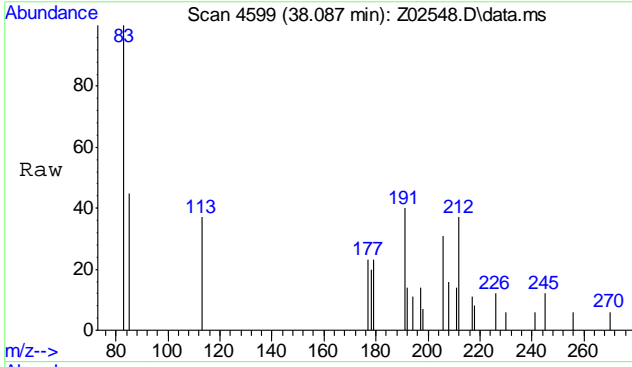
Tgt Ion:198	Resp:	17479
Ion Ratio	Lower	Upper
198	100	
197	6.2	53.7 80.5#



#61
 Cl-Dibenzothiophenes (OTP)
 Concen: 37.92 ng/mL m
 RT: 35.586 min Scan# 4209
 Delta R.T. 0.027 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

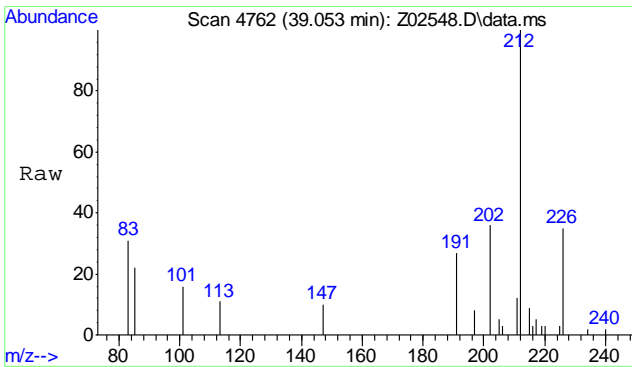
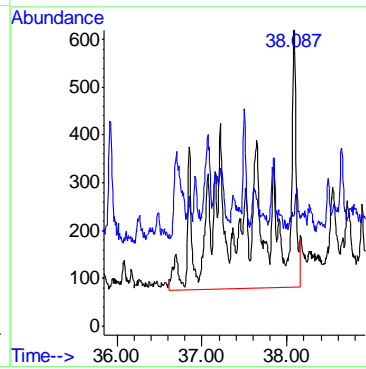
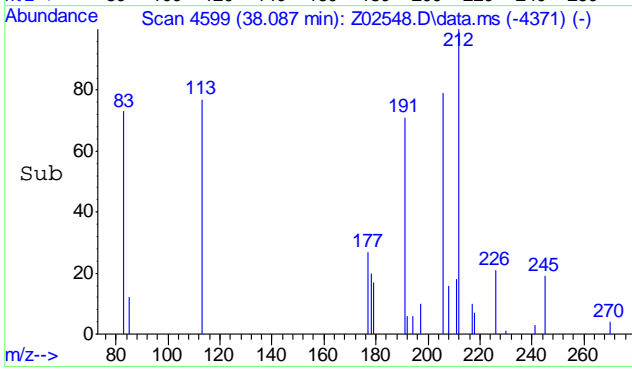
Tgt Ion:198	Resp:	10323
Ion Ratio	Lower	Upper
198	100	
197	0.0	121.8 182.6#





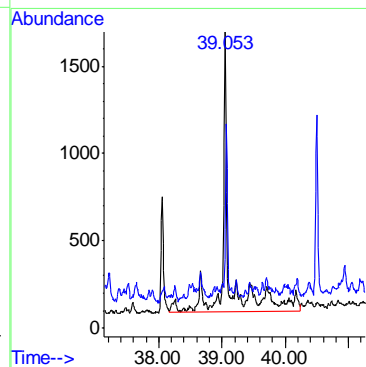
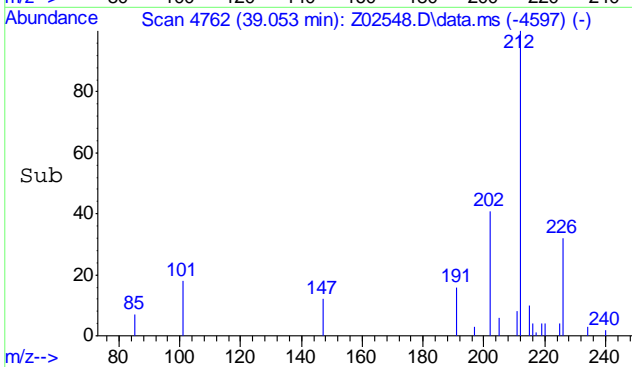
#62
 C2-Dibenzothiophenes
 Concen: 41.14 ng/mL m
 RT: 38.087 min Scan# 4599
 Delta R.T. 0.916 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion: 212	Resp: 11199
Ion Ratio	Lower Upper
212	100
197	0.0 17.2 25.8#

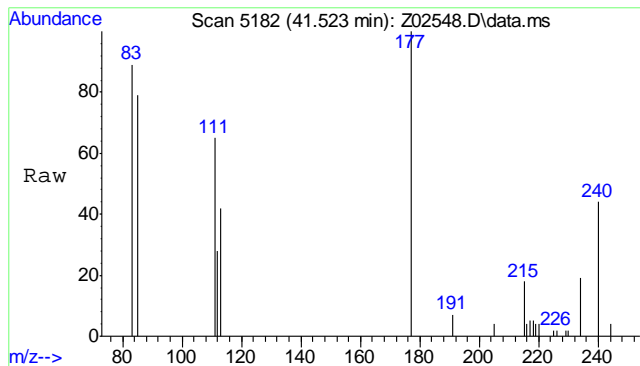


#63
 C3-Dibenzothiophenes
 Concen: 40.81 ng/mL m
 RT: 39.053 min Scan# 4762
 Delta R.T. 0.437 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

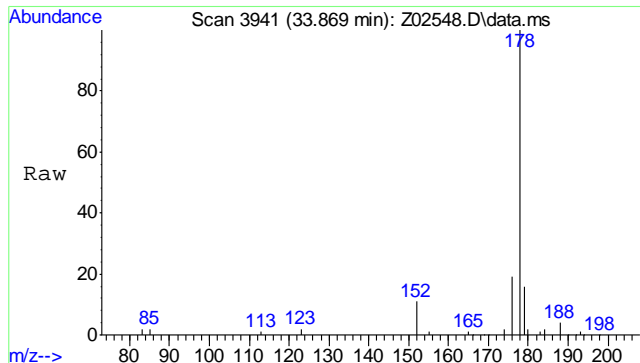
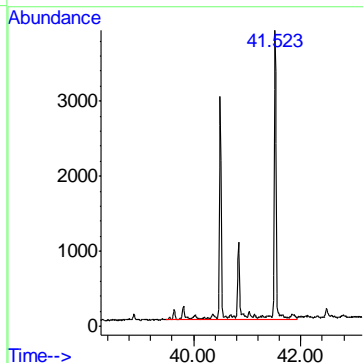
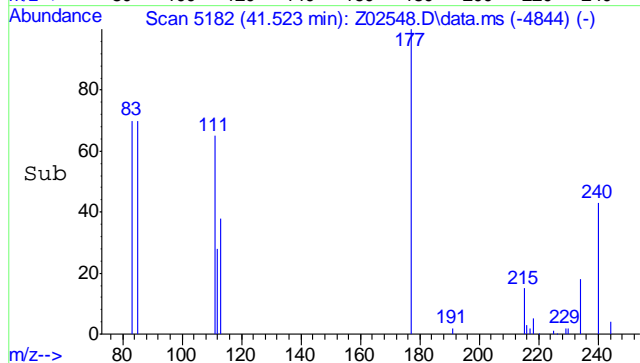
Tgt Ion: 226	Resp: 11109
Ion Ratio	Lower Upper
226	100
211	17.7 43.3 64.9#



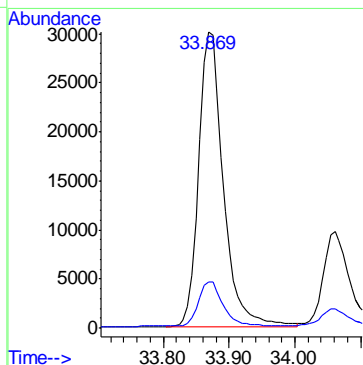
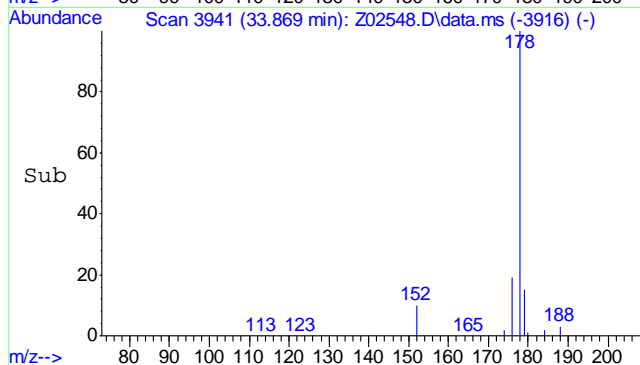
7.12
7



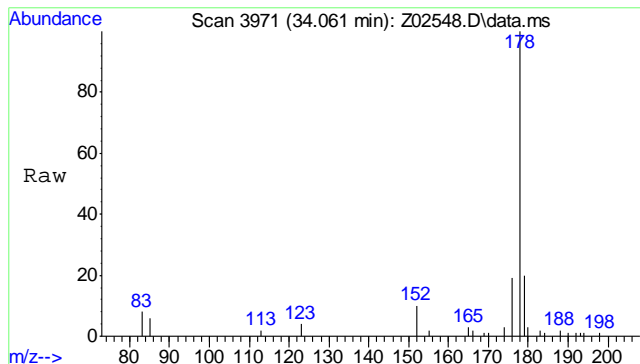
#64
 C4-Dibenzothiophenes
 Concen: 80.24 ng/mL m
 RT: 41.523 min Scan# 5182
 Delta R.T. 1.219 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am
 Tgt Ion:240 Resp: 21844



#65
 Phenanthrene
 Concen: 267.01 ng/mL
 RT: 33.869 min Scan# 3941
 Delta R.T. -0.038 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am
 Tgt Ion:178 Resp: 78289
 Ion Ratio Lower Upper
 178 100
 179 15.0 12.0 18.0

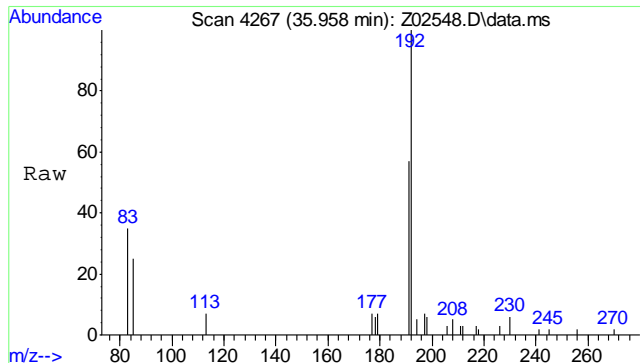
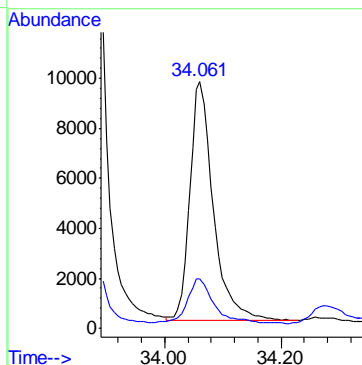
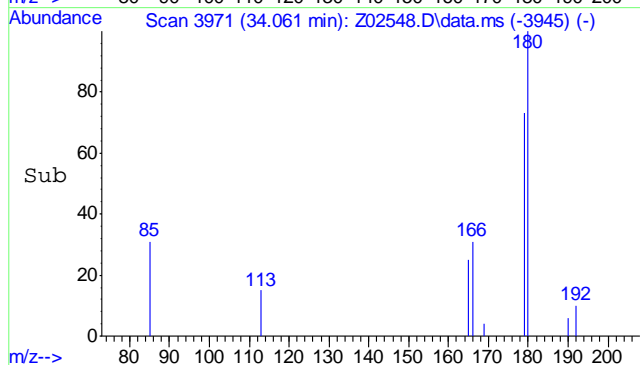


7.12
7



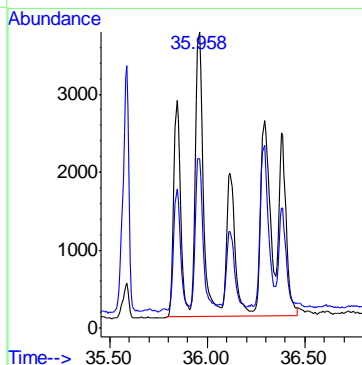
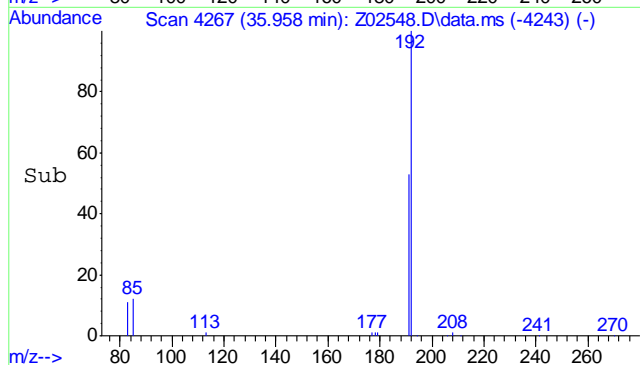
#66
 Anthracene
 Concen: 94.23 ng/mL
 RT: 34.061 min Scan# 3971
 Delta R.T. -0.032 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:178	Resp:	26509
178	Ratio	Lower Upper
179	21.4	12.0 18.0#

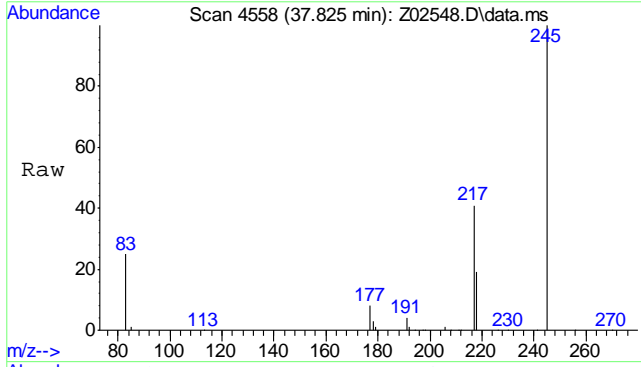


#67
 Cl-Phenanthrenes/anthracenes
 Concen: 123.65 ng/mL m
 RT: 35.958 min Scan# 4267
 Delta R.T. -0.302 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:192	Resp:	36254
192	Ratio	Lower Upper
191	7.4	44.6 67.0#

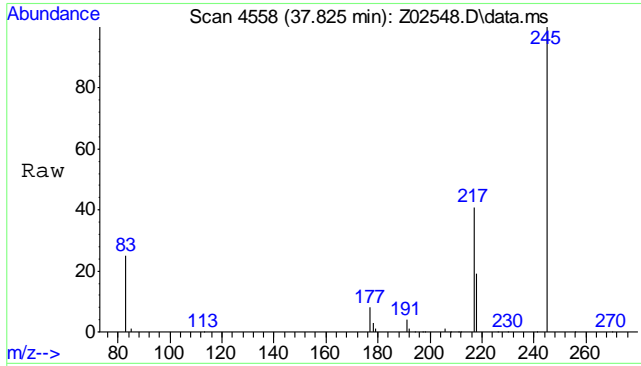
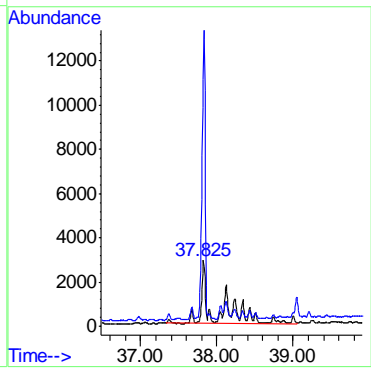
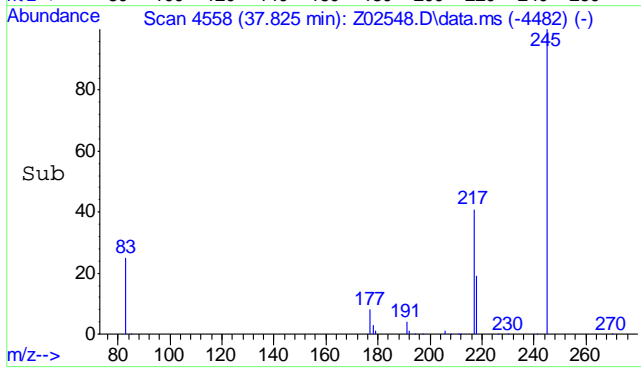


7.12
7



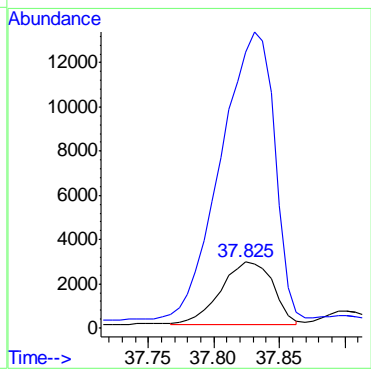
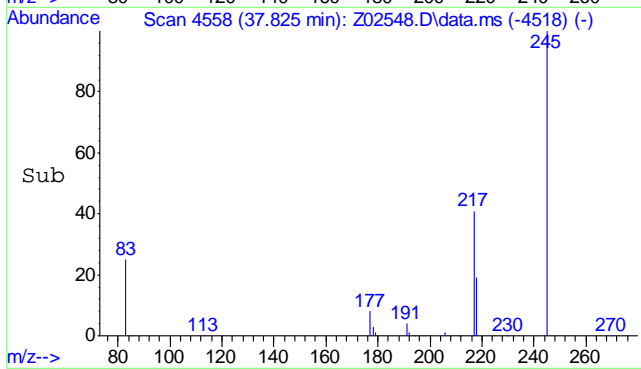
#68
 C2-Phenanthrenes/anthracenes (unadj)
 Concen: 103.70 ng/mL m
 RT: 37.825 min Scan# 4558
 Delta R.T. -0.250 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

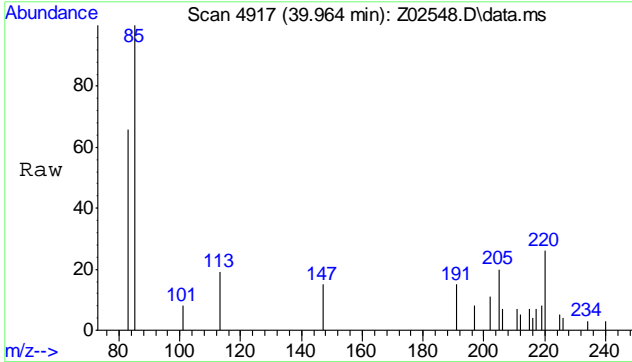
Tgt Ion:206	Resp:	30406
Ion Ratio	Lower	Upper
206	100	
191	8.7	39.3 58.9#



#69
 C2-Phenanthrenes/anthracenes (5aA)
 Concen: 26.61 ng/mL m
 RT: 37.825 min Scan# 4558
 Delta R.T. 0.056 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

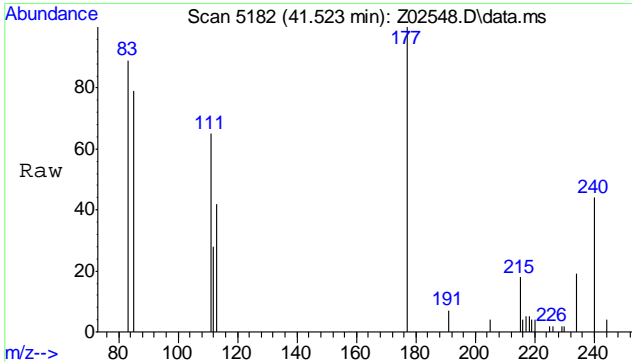
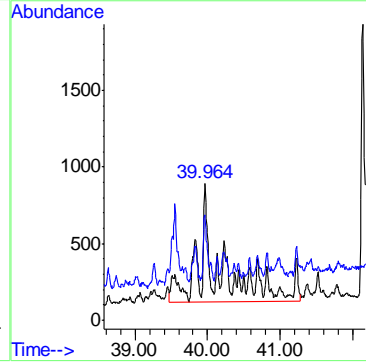
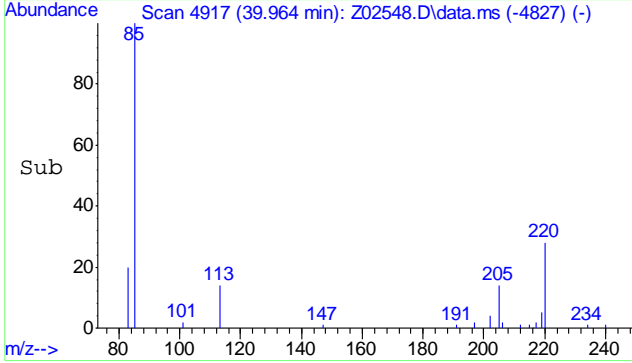
Tgt Ion:206	Resp:	7803
Ion Ratio	Lower	Upper
206	100	
191	17.9	34.5 51.7#





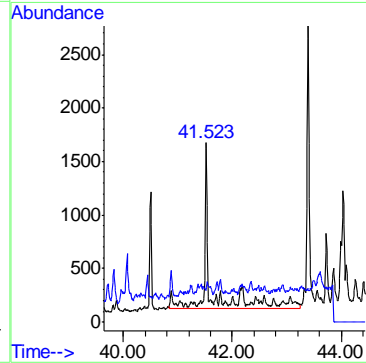
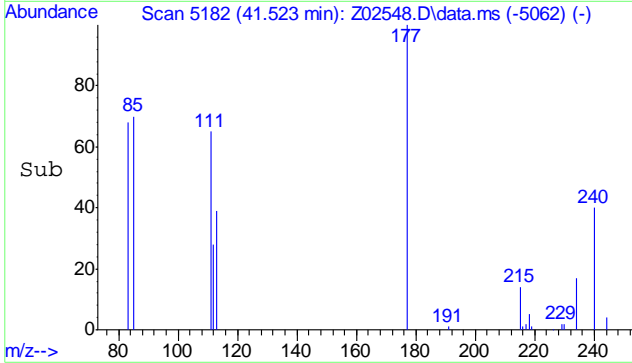
#70
 C3-Phenanthrenes/anthracenes
 Concen: 51.31 ng/mL m
 RT: 39.964 min Scan# 4917
 Delta R.T. 0.058 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
220	15044	100	
205	6.6	38.8	58.2#

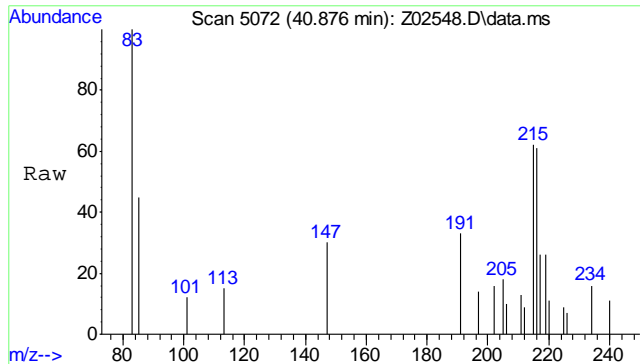


#71
 C4-Phenanthrenes/anthracenes
 Concen: 39.08 ng/mL m
 RT: 41.523 min Scan# 5182
 Delta R.T. -0.556 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
234	11457	100	
219	0.0	44.2	66.4#

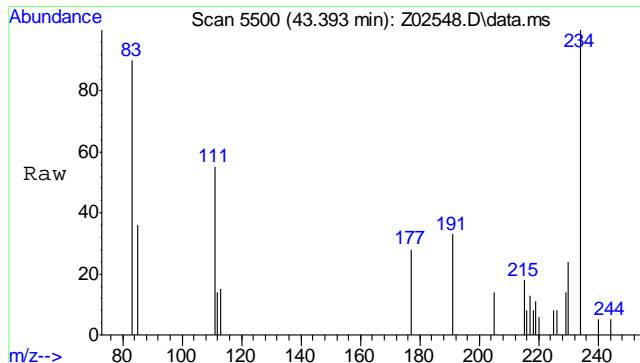
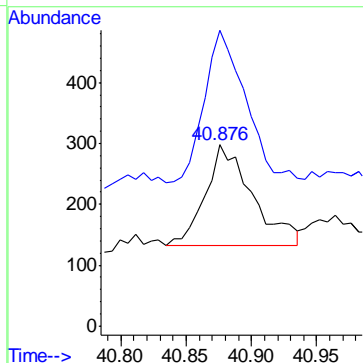
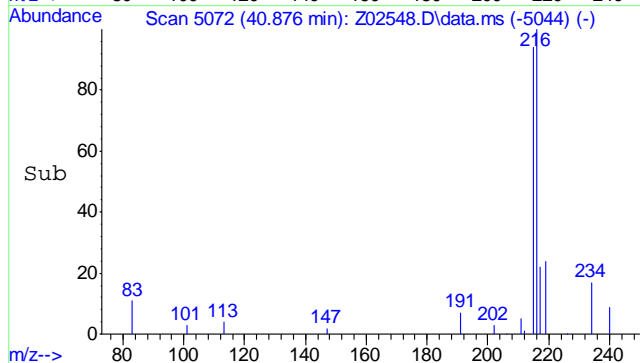


7.1.2
7



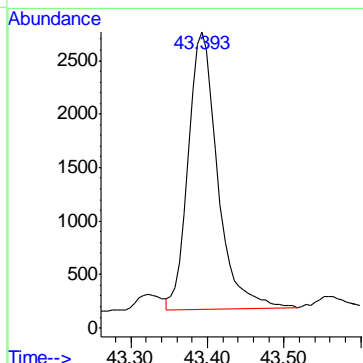
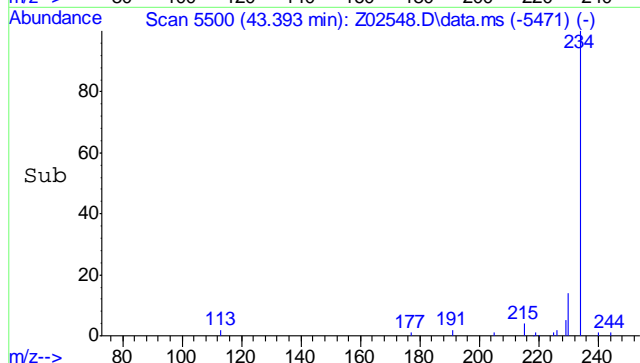
#72
 Retene
 Concen: 11.33 ng/mL
 RT: 40.876 min Scan# 5072
 Delta R.T. -0.035 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:234 Resp: 410
 Ion Ratio Lower Upper
 234 100
 219 134.6 131.8 197.8

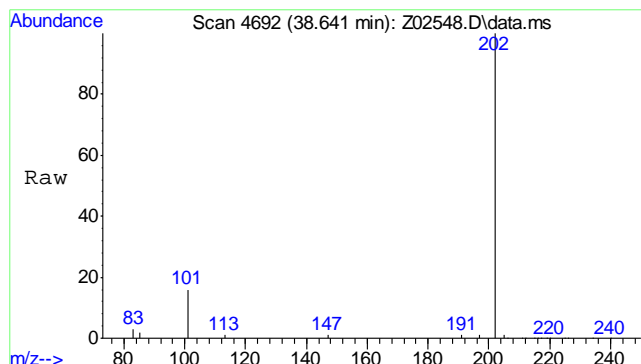


#73
 Benzo(b)naphtho(2,1-d)thiophene
 Concen: 25.60 ng/mL
 RT: 43.393 min Scan# 5500
 Delta R.T. -0.030 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:234 Resp: 6861

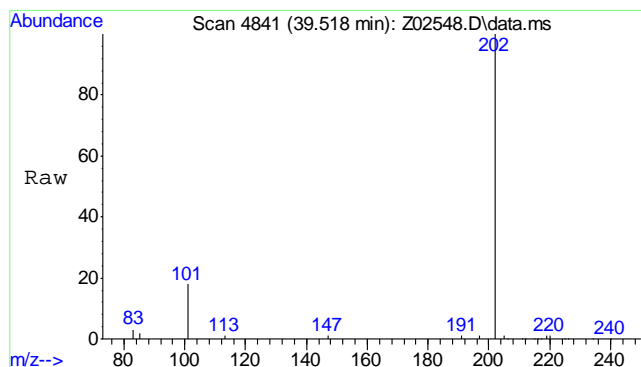
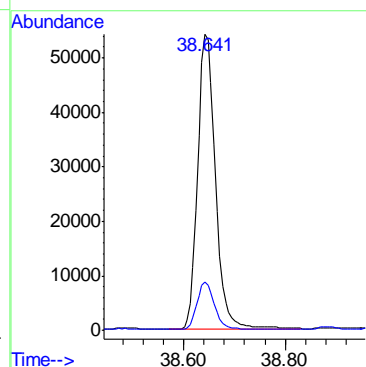
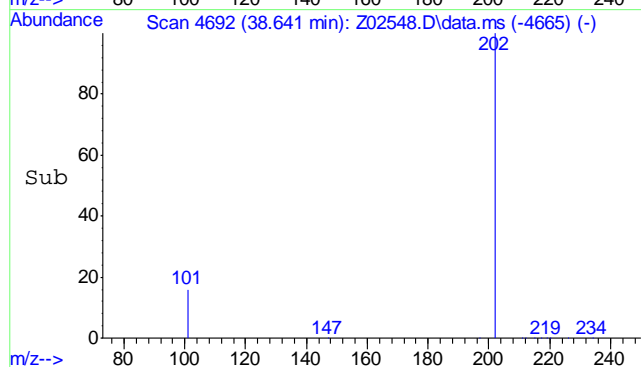


7.12
7



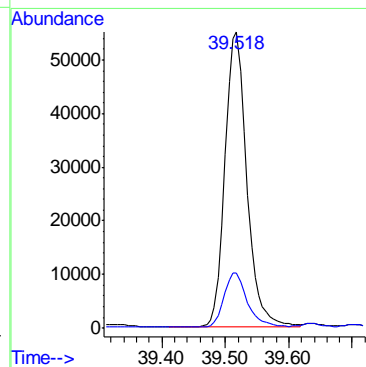
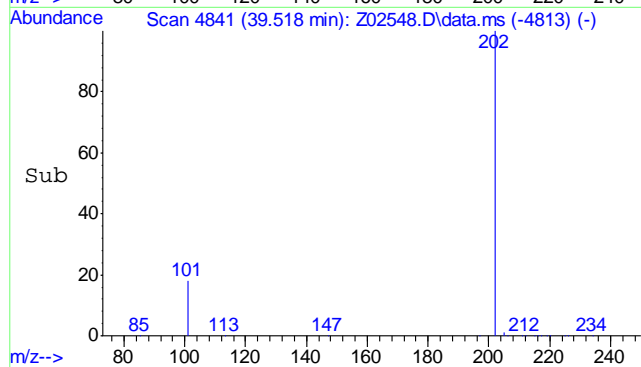
#78
 Fluoranthene
 Concen: 465.76 ng/mL
 RT: 38.641 min Scan# 4692
 Delta R.T. -0.042 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.9	12.6	19.0

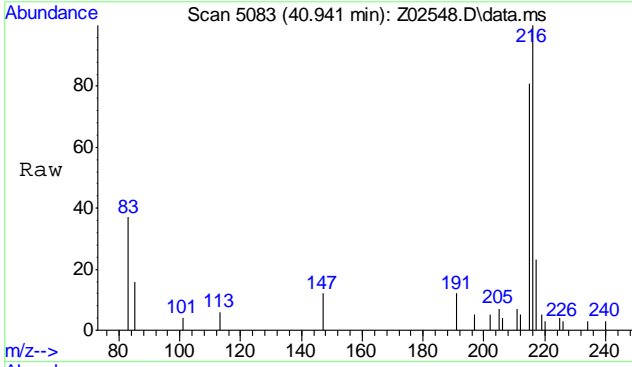


#79
 Pyrene
 Concen: 438.70 ng/mL
 RT: 39.518 min Scan# 4841
 Delta R.T. -0.035 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Ratio	Lower	Upper
202	100		
101	19.4	14.4	21.6

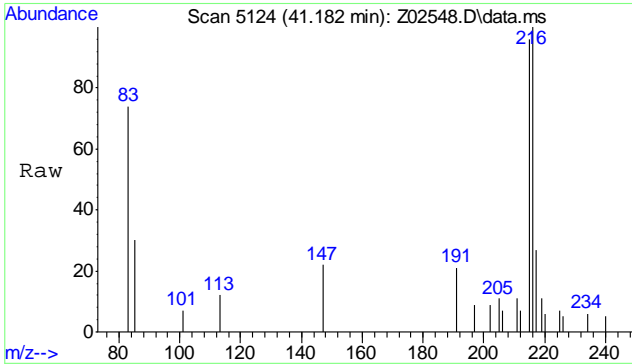
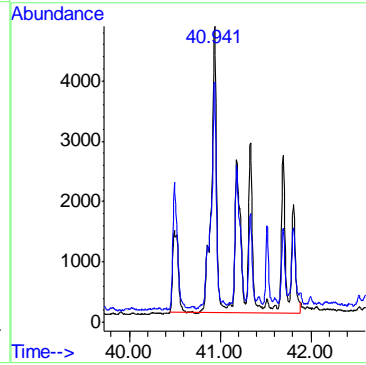
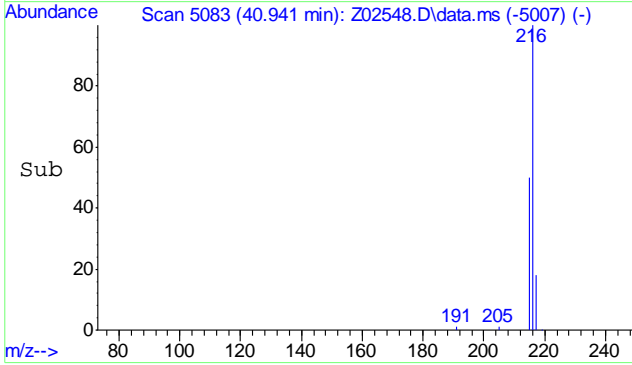


7.12
7



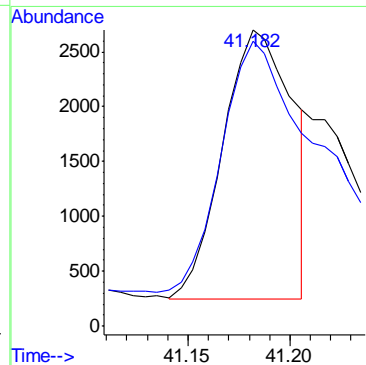
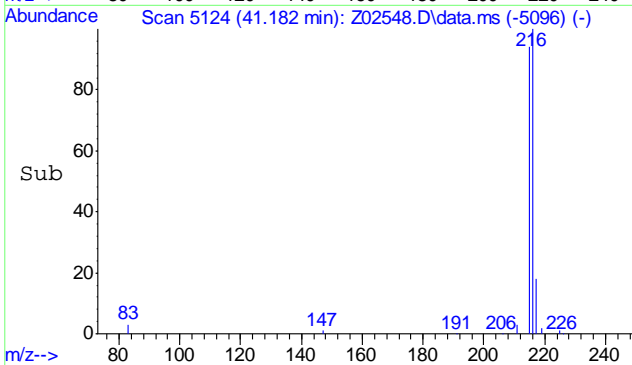
#80
 Cl-Fluoranthenes/pyrenes
 Concen: 185.10 ng/mL m
 RT: 40.941 min Scan# 5083
 Delta R.T. 0.071 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:216 Resp: 55514
 Ion Ratio Lower Upper
 216 100
 215 21.6 74.1 111.1#

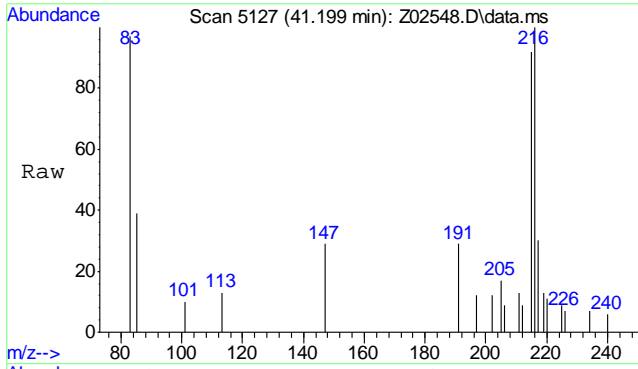


#81
 Benzo(b)fluorene
 Concen: 19.36 ng/mL m
 RT: 41.182 min Scan# 5124
 Delta R.T. -0.038 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:216 Resp: 5807
 Ion Ratio Lower Upper
 216 100
 215 137.1 106.0 159.0

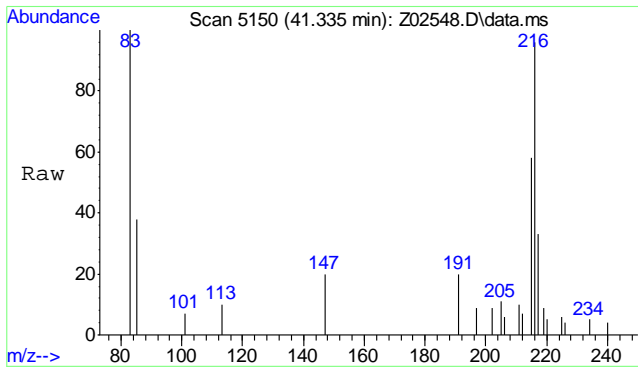
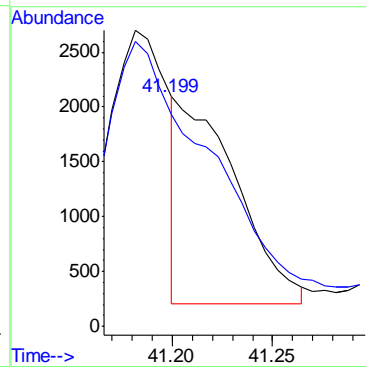
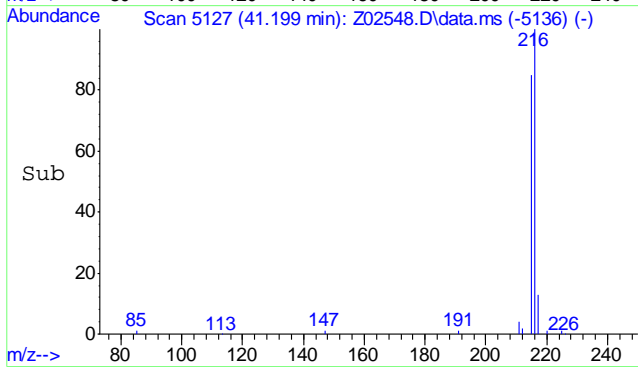


7.12
7



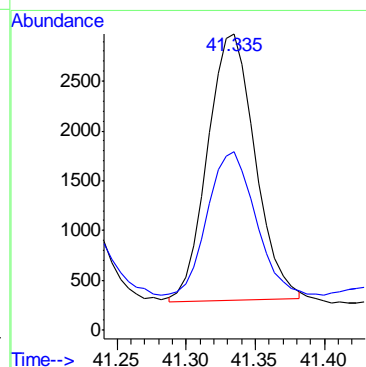
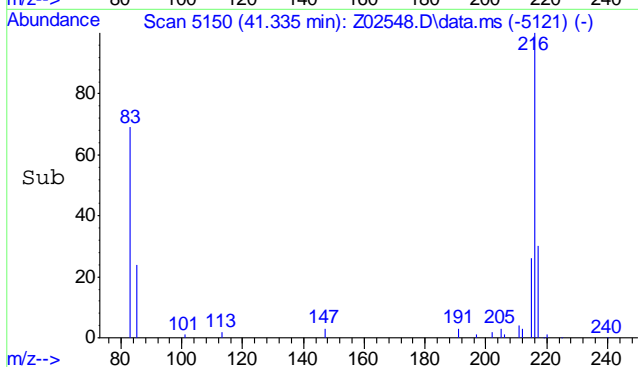
#82
 Benzo(c)fluorene
 Concen: 12.64 ng/mL m
 RT: 41.199 min Scan# 5127
 Delta R.T. -0.055 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	216	Resp:	3791
Ion Ratio	Lower	Upper	
216	100		
215	91.1	121.4	182.2#

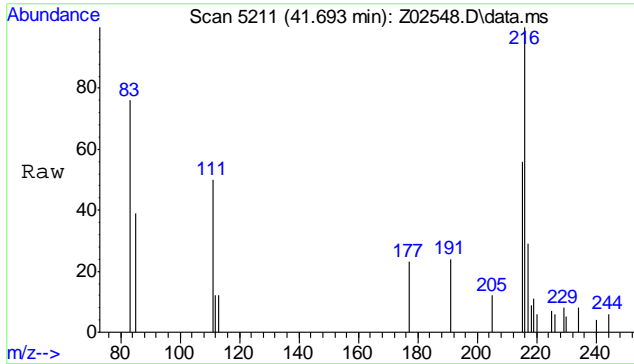


#83
 2-Methylpyrene
 Concen: 21.28 ng/mL m
 RT: 41.335 min Scan# 5150
 Delta R.T. -0.032 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	216	Resp:	6382
Ion Ratio	Lower	Upper	
216	100		
215	0.0	83.1	124.7#

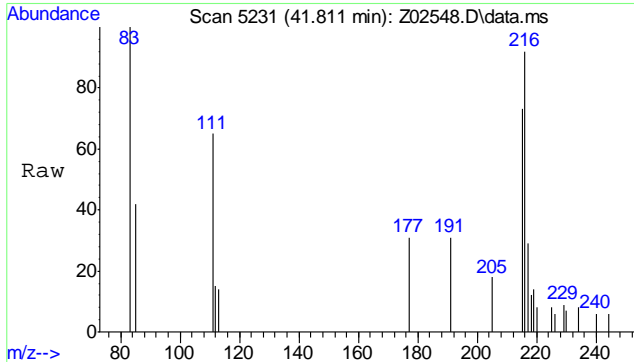
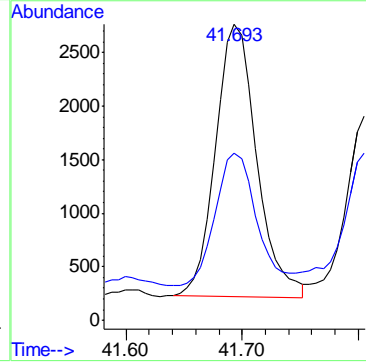
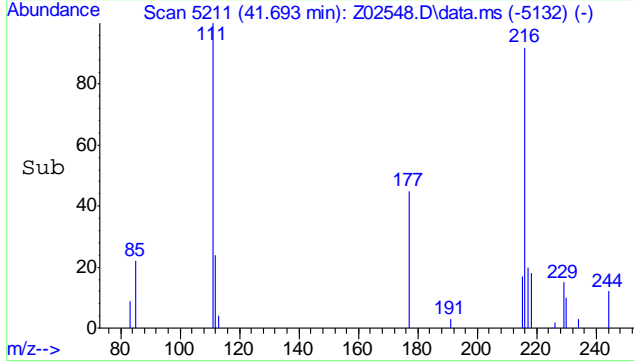


7.12



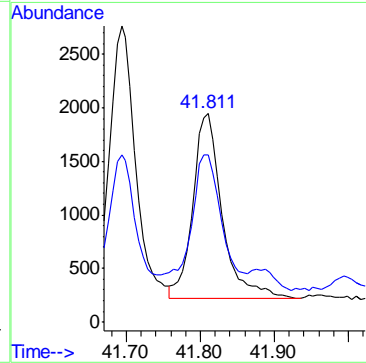
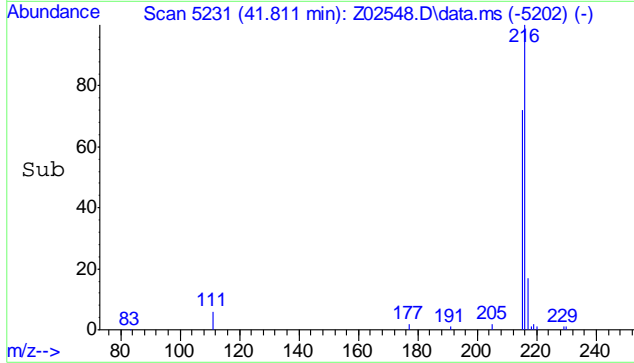
#84
 4-Methylpyrene
 Concen: 20.77 ng/mL m
 RT: 41.693 min Scan# 5211
 Delta R.T. -0.038 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion: 216	Resp: 6229
Ion Ratio	Lower Upper
216	100
215	55.8 58.0 87.0#

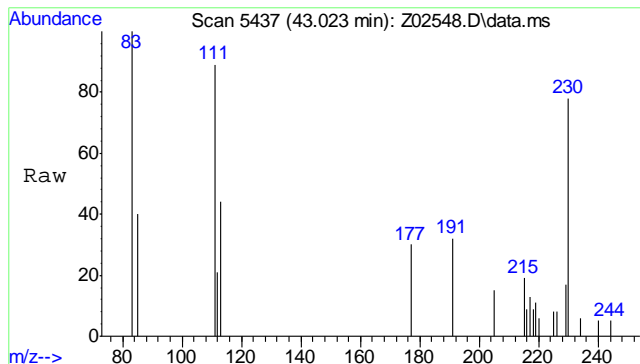


#85
 1-Methylpyrene
 Concen: 15.97 ng/mL
 RT: 41.811 min Scan# 5231
 Delta R.T. -0.032 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion: 216	Resp: 4790
Ion Ratio	Lower Upper
216	100
215	75.1 78.2 117.4#

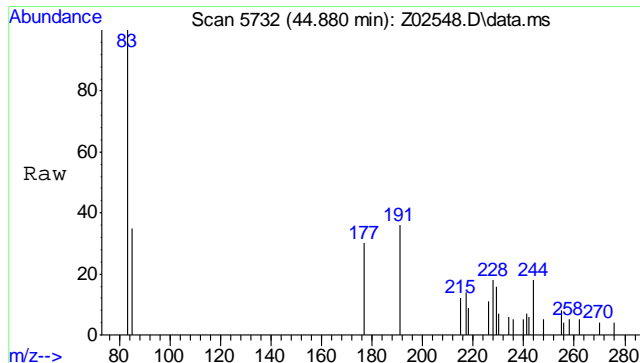
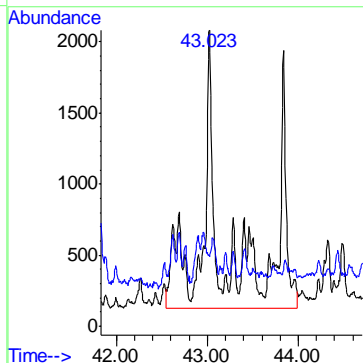
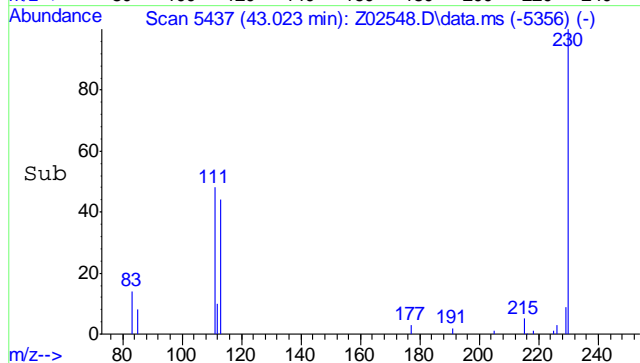


7.1.2
7



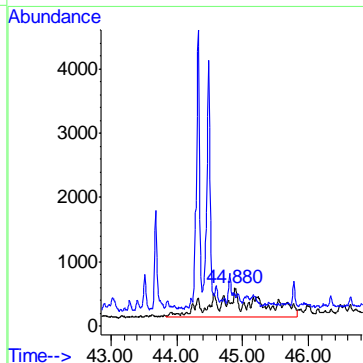
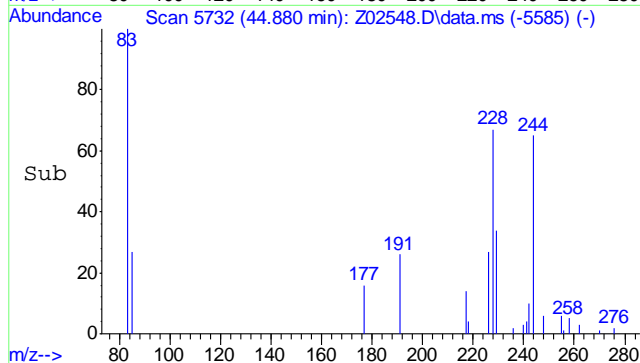
#86
 C2-Fluoranthenes/pyrenes
 Concen: 109.20 ng/mL m
 RT: 43.023 min Scan# 5437
 Delta R.T. 0.354 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	230	Resp:	32752
Ion Ratio	Lower	Upper	
230	100		
215	2.5	99.6	149.4#

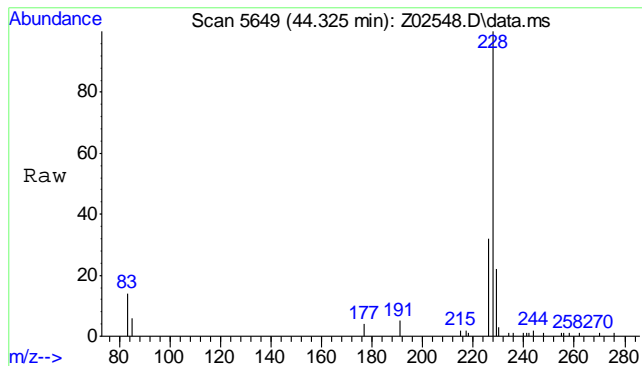


#87
 C3-Fluoranthenes/pyrenes
 Concen: 64.31 ng/mL m
 RT: 44.880 min Scan# 5732
 Delta R.T. 0.202 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	244	Resp:	19289
Ion Ratio	Lower	Upper	
244	100		
229	0.0	74.2	111.4#

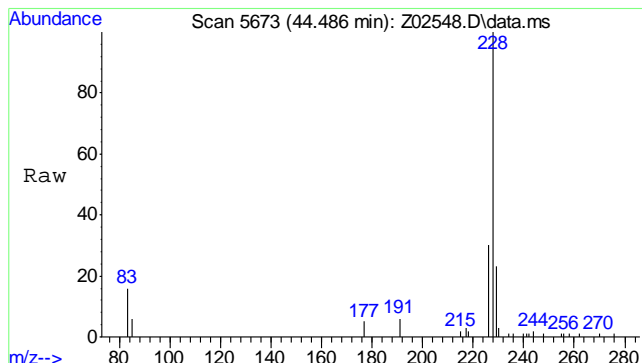
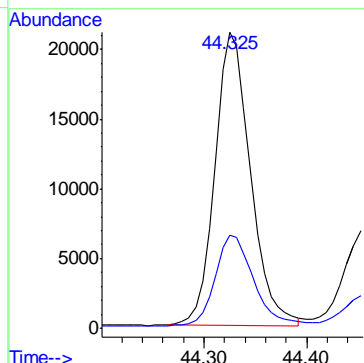
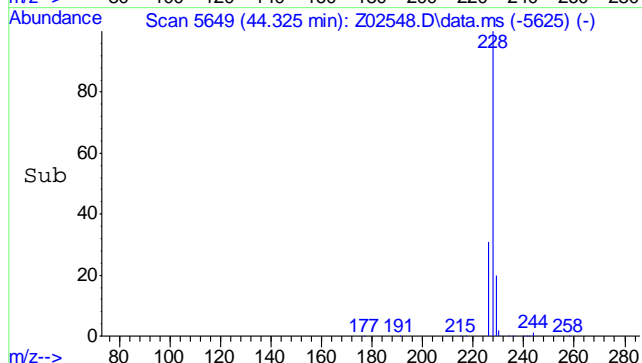


7.1.2
7



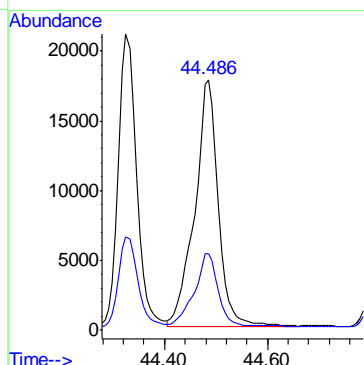
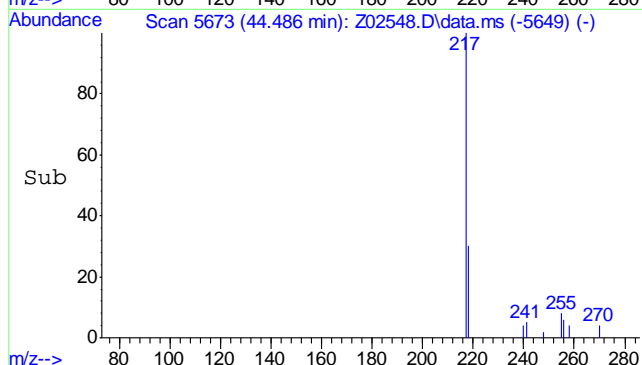
#88
 Benz(a)anthracene
 Concen: 202.65 ng/mL m
 RT: 44.325 min Scan# 5649
 Delta R.T. -0.041 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion: 228	Resp: 50788
Ion Ratio	Lower Upper
228	100
226	0.0 21.1 31.7#

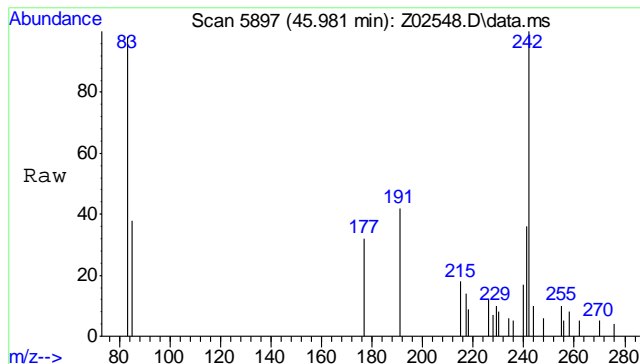


#89
 Chrysene
 Concen: 215.04 ng/mL
 RT: 44.486 min Scan# 5673
 Delta R.T. -0.040 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion: 228	Resp: 56254
Ion Ratio	Lower Upper
228	100
226	29.3 23.2 34.8

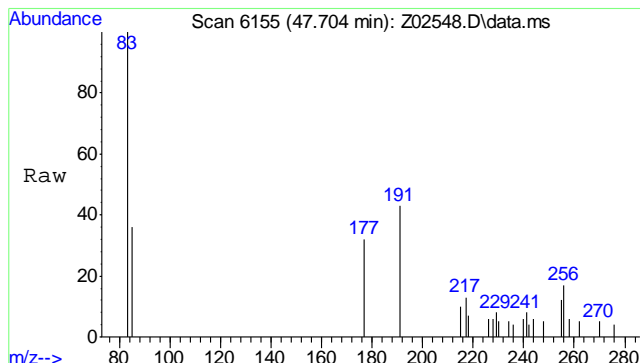
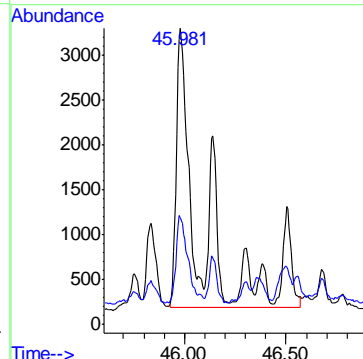
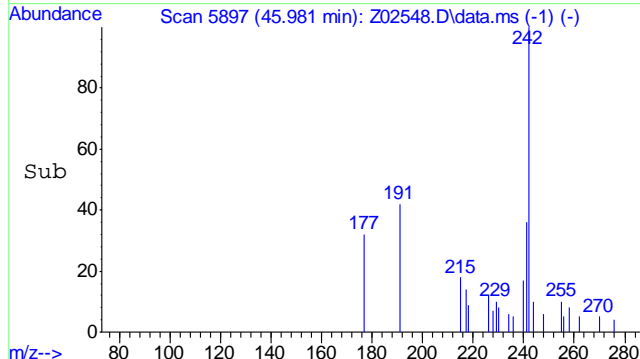


7.12
7



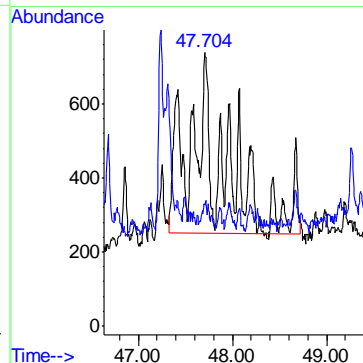
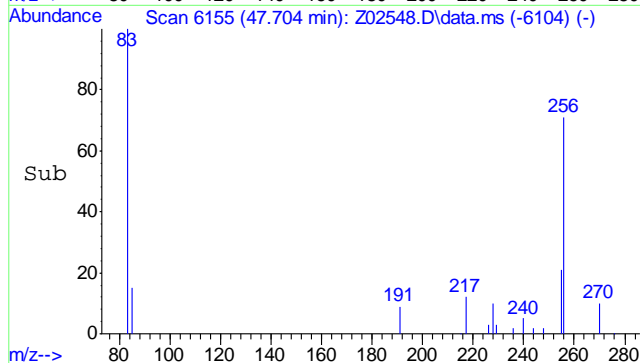
#90
 C1-Benz(a)anthracenes/chrysenes
 Concen: 91.46 ng/mL m
 RT: 45.981 min Scan# 5897
 Delta R.T. 0.116 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion: 242	Resp: 23927
Ion Ratio	Lower Upper
242	100
241	5.7 33.9 50.9#

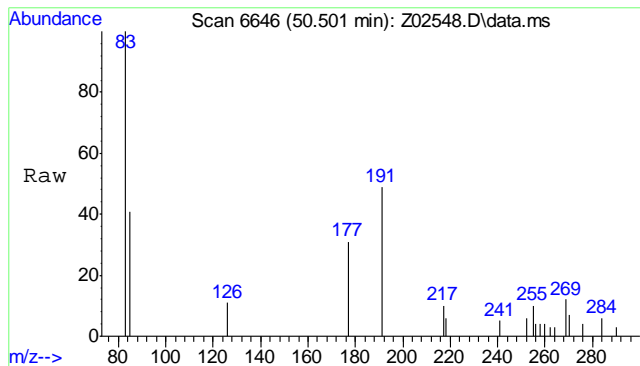


#91
 C2-Benz(a)anthracenes/chrysenes
 Concen: 45.60 ng/mL m
 RT: 47.704 min Scan# 6155
 Delta R.T. -0.235 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion: 256	Resp: 11930
Ion Ratio	Lower Upper
256	100
241	2.0 22.8 34.2#

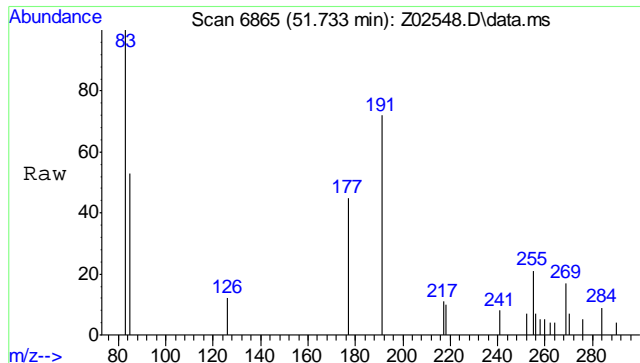
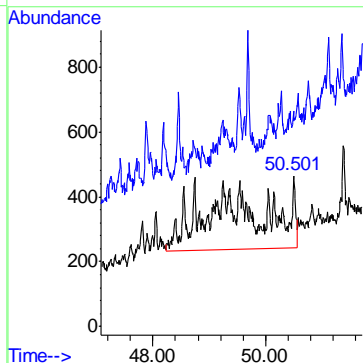
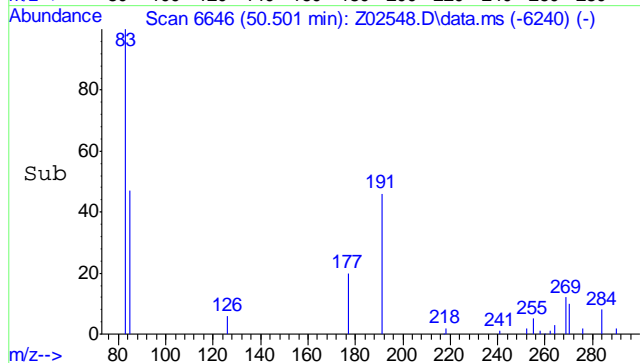


7.12
7



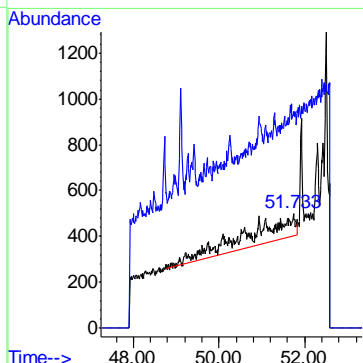
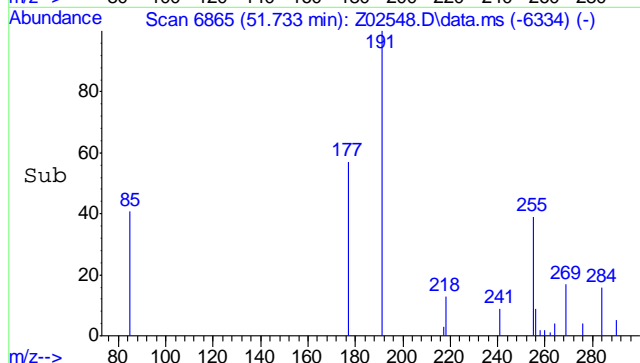
#92
 C3-Benz(a)anthracenes/chrysenes
 Concen: 51.20 ng/mL m
 RT: 50.501 min Scan# 6646
 Delta R.T. 0.149 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:270	Resp:	13394
Ion Ratio	Lower	Upper
270	100	
255	0.0	34.9 52.3#

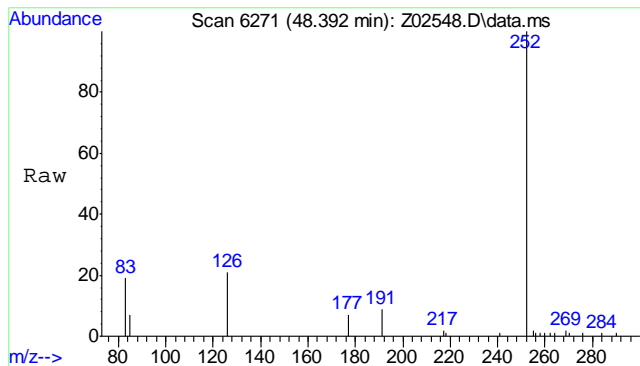


#93
 C4-Benz(a)anthracenes/chrysenes
 Concen: 30.13 ng/mL m
 RT: 51.733 min Scan# 6865
 Delta R.T. 1.286 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:284	Resp:	7881
Ion Ratio	Lower	Upper
284	100	
269	0.0	61.8 92.6#

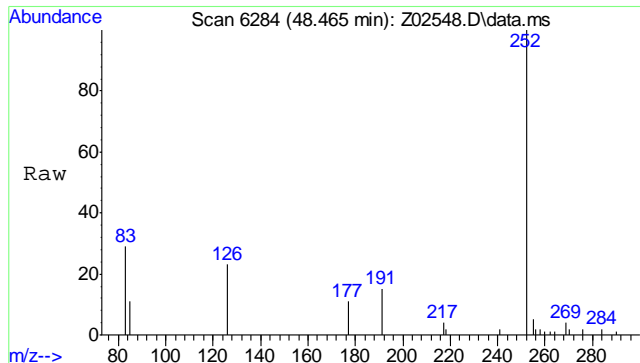
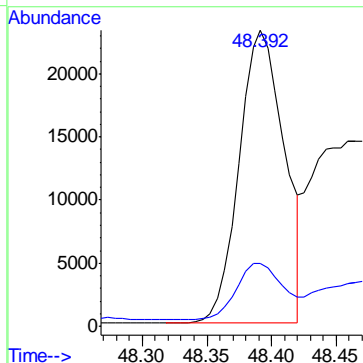
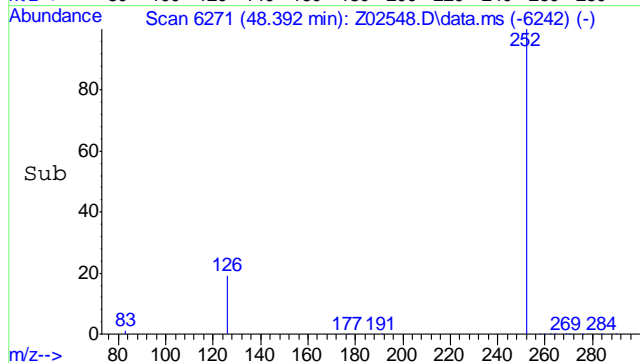


7.12
7



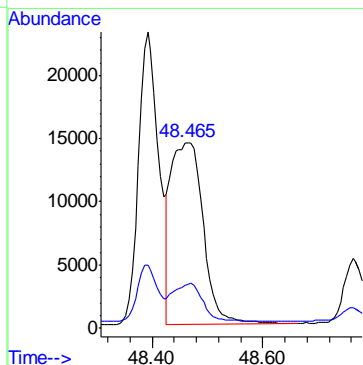
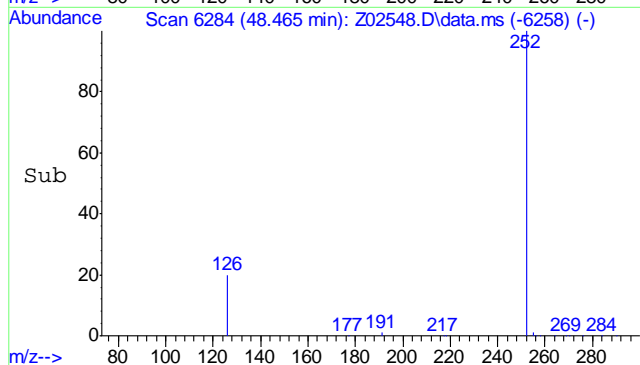
#94
 Benzo(b)fluoranthene
 Concen: 205.13 ng/mL
 RT: 48.392 min Scan# 6271
 Delta R.T. -0.039 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
252	100		
126	20.0	15.7	23.5

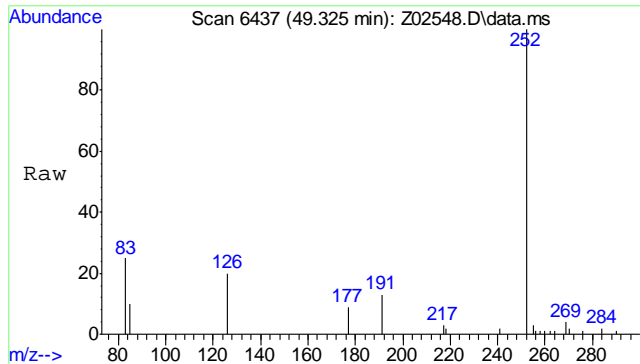


#95
 Benzo(k)fluoranthene
 Concen: 183.47 ng/mL
 RT: 48.465 min Scan# 6284
 Delta R.T. -0.056 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
252	100		
126	19.8	15.9	23.9

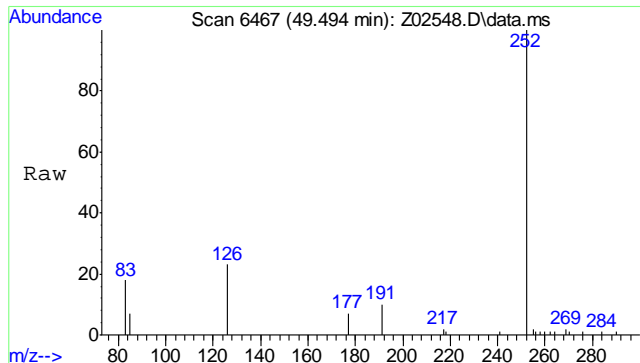
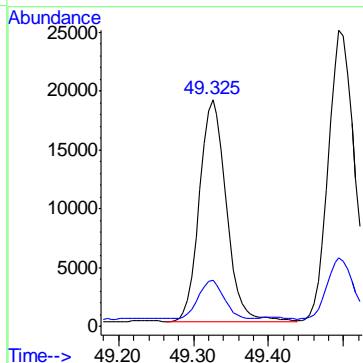
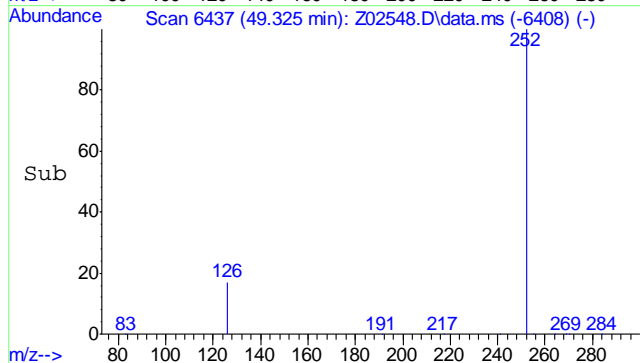


7.12
7



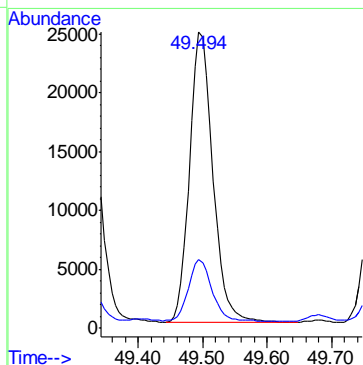
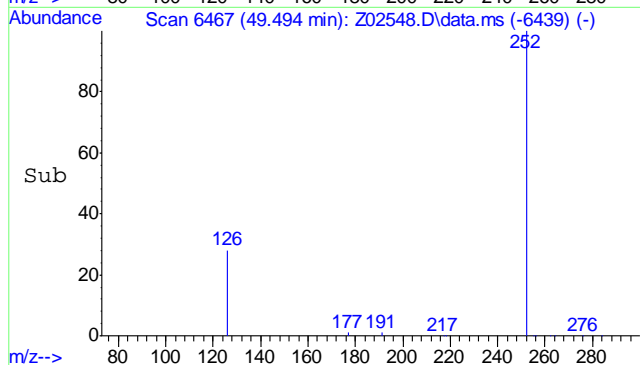
#96
 Benzo(e)pyrene
 Concen: 169.37 ng/mL
 RT: 49.325 min Scan# 6437
 Delta R.T. -0.040 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	252	Resp:	47048
Ion Ratio	100	Lower	Upper
252	100		
126	16.6	13.5	20.3

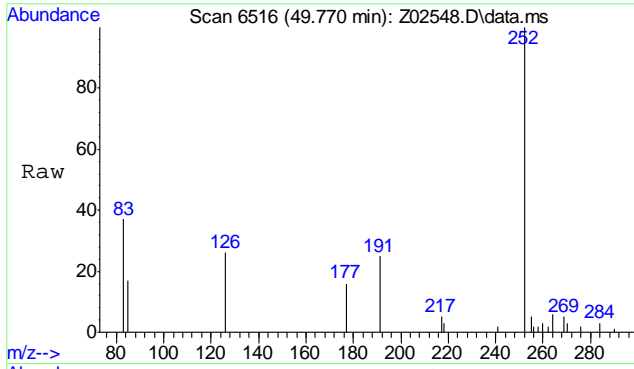


#97
 Benzo(a)pyrene
 Concen: 248.50 ng/mL
 RT: 49.494 min Scan# 6467
 Delta R.T. -0.045 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	252	Resp:	61899
Ion Ratio	100	Lower	Upper
252	100		
126	21.1	16.6	24.8

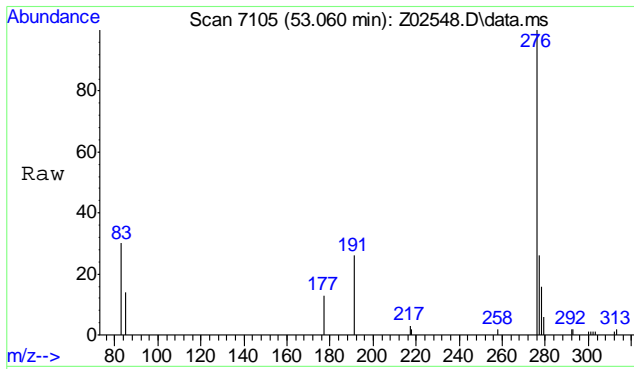
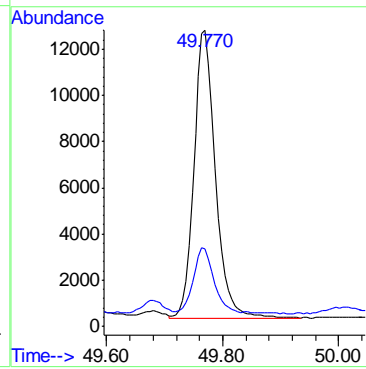
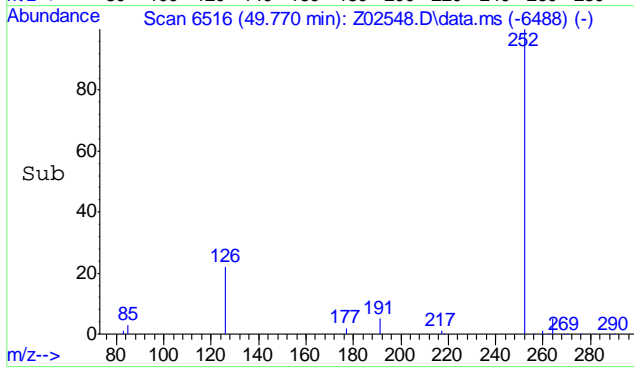


7.12
7



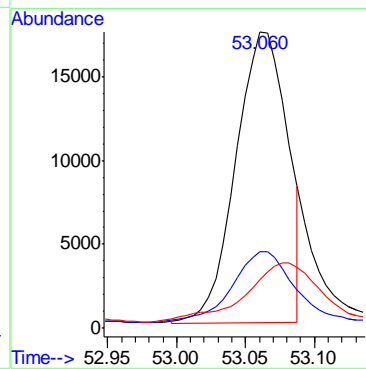
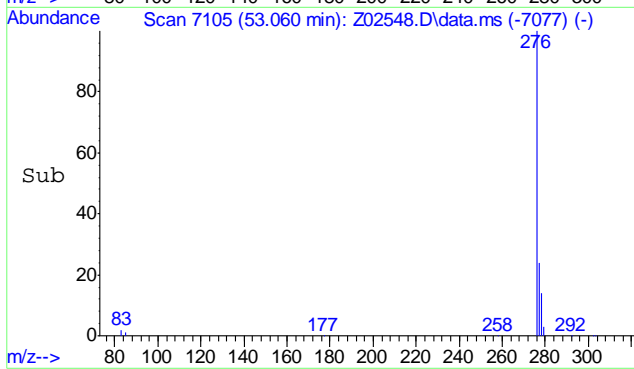
#98
 Perylene
 Concen: 129.81 ng/mL
 RT: 49.770 min Scan# 6516
 Delta R.T. -0.045 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	252	Resp:	31993
Ion Ratio	Lower	Upper	
252	100		
126	21.6	17.3	25.9

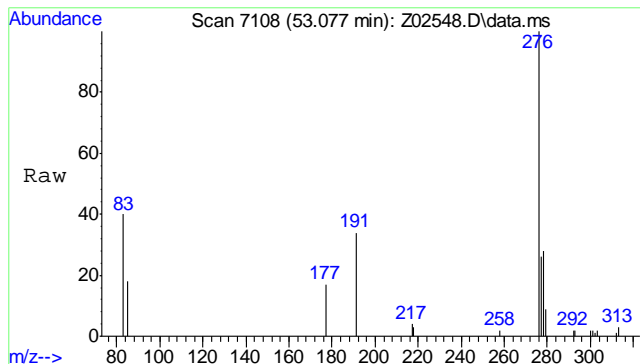


#99
 Indeno(1,2,3-cd)pyrene
 Concen: 141.60 ng/mL m
 RT: 53.060 min Scan# 7105
 Delta R.T. -0.049 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	276	Resp:	45133
Ion Ratio	Lower	Upper	
276	100		
277	29.9	19.0	28.6#
278	29.2	27.8	41.8

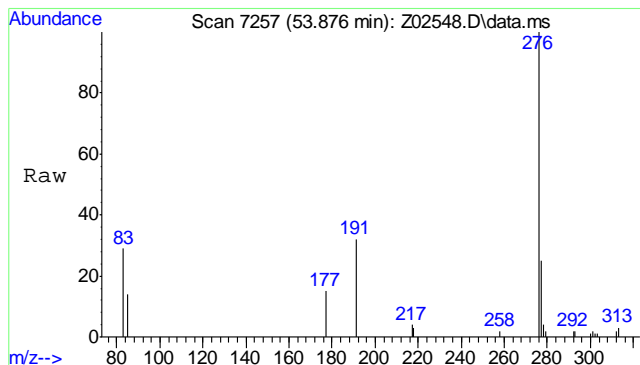
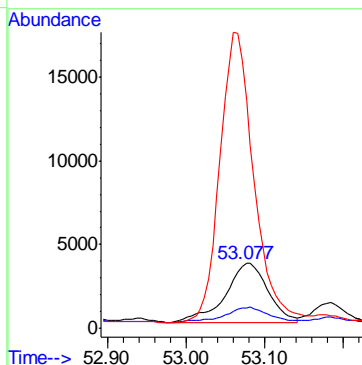
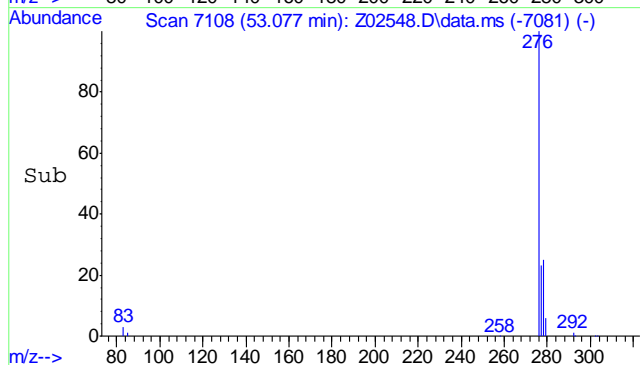


7.12
7



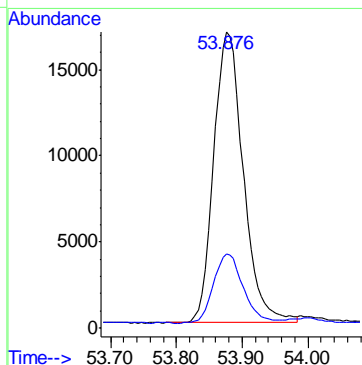
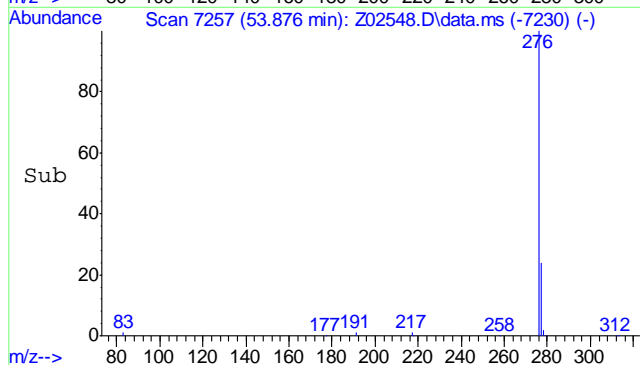
#100
 Dibenz(a,h)anthracene
 Concen: 47.23 ng/mL
 RT: 53.077 min Scan# 7108
 Delta R.T. -0.053 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Ratio	Lower	Upper
278	100		
279	26.6	18.6	28.0
276	0.0	57.7	86.5#

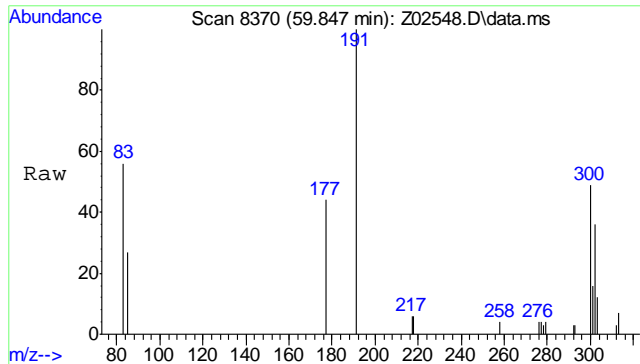


#101
 Benzo(g,h,i)perylene
 Concen: 165.16 ng/mL
 RT: 53.876 min Scan# 7257
 Delta R.T. -0.053 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0

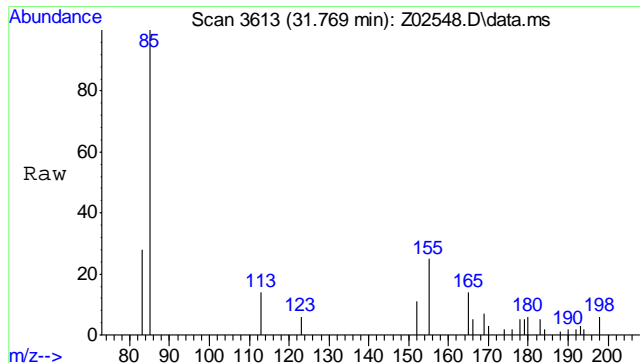
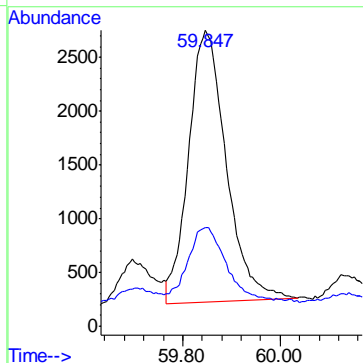
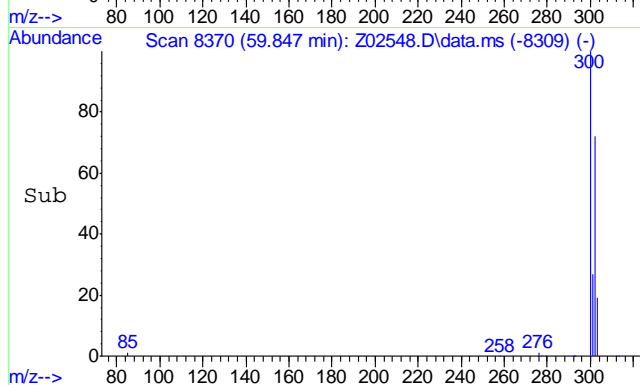


7.1.2
7



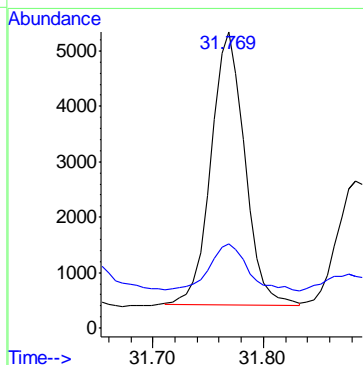
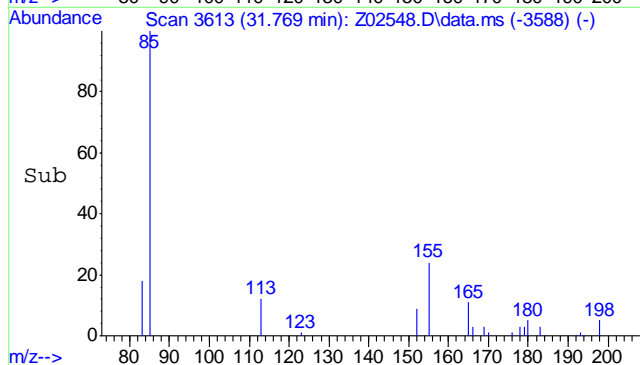
#102
 Coronene
 Concen: 44.05 ng/mL
 RT: 59.847 min Scan# 8370
 Delta R.T. -0.075 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	300	Resp:	13544
Ion Ratio	Lower	Upper	
300	100		
301	27.2	20.6	31.0

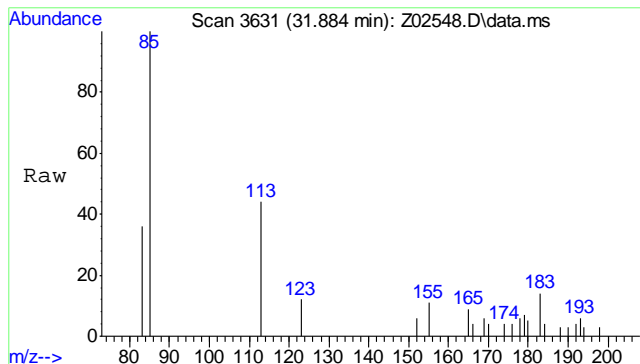


#103
 C-17
 Concen: 199.10 ng/mL m
 RT: 31.769 min Scan# 3613
 Delta R.T. -0.038 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	85	Resp:	10483
Ion Ratio	Lower	Upper	
85	100		
83	8.4	11.8	17.8#

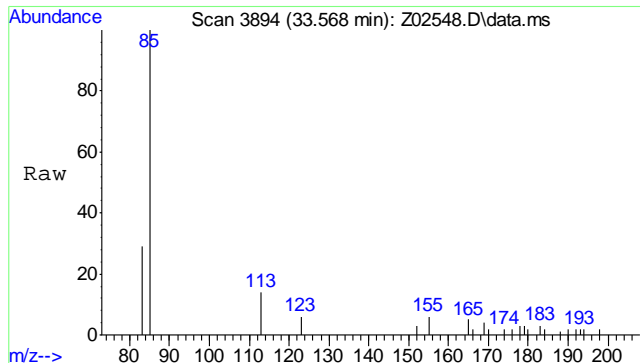
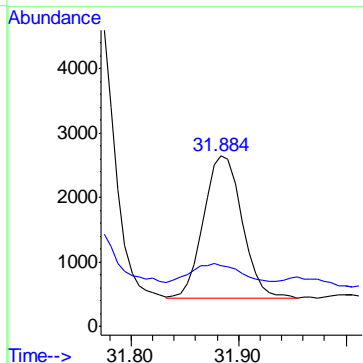
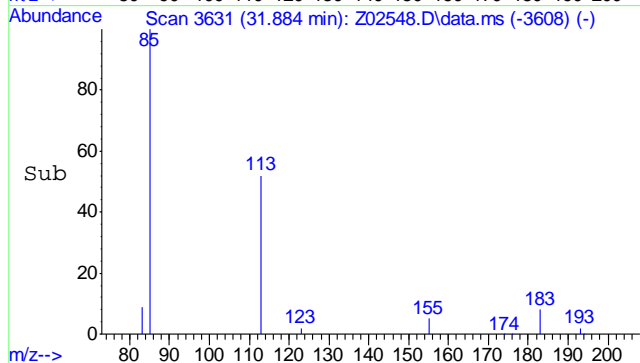


7.12
7



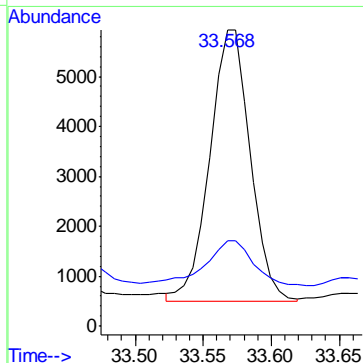
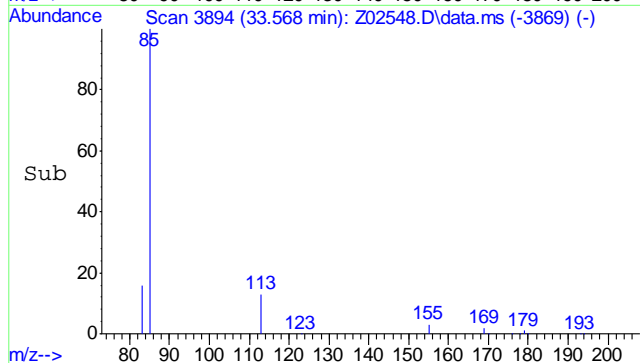
#104
 Pristane
 Concen: 140.04 ng/mL
 RT: 31.884 min Scan# 3631
 Delta R.T. -0.051 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
85	100		
83	19.5	10.5	15.7#

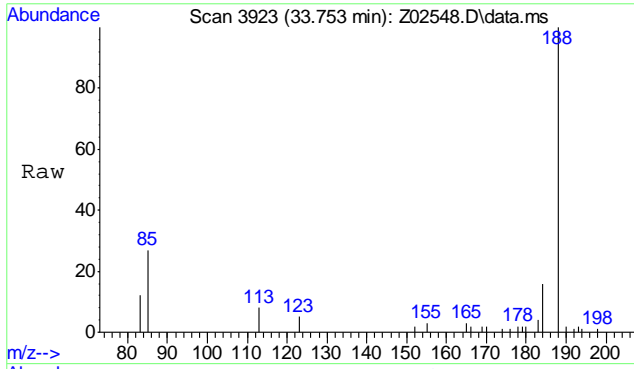


#105
 C-18
 Concen: 214.89 ng/mL
 RT: 33.568 min Scan# 3894
 Delta R.T. -0.038 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion	Resp	Lower	Upper
85	100		
83	20.2	13.0	19.4#

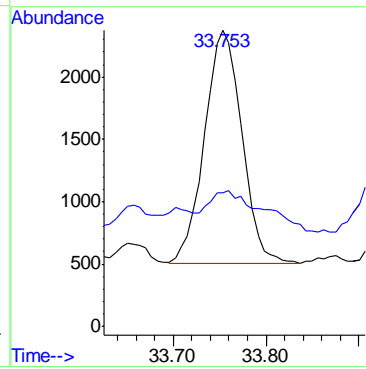
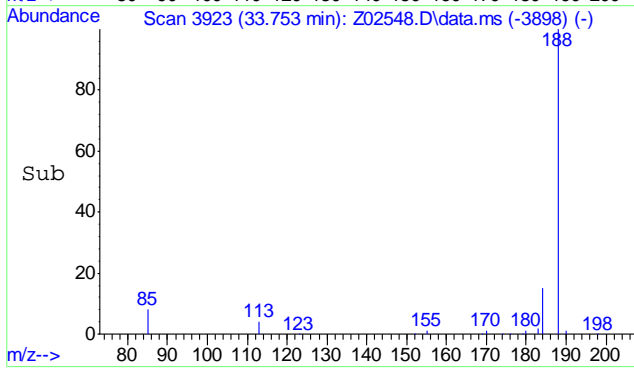


7.1.2
7



#106
 Phytane
 Concen: 100.77 ng/mL
 RT: 33.753 min Scan# 3923
 Delta R.T. -0.039 min
 Lab File: Z02548.D
 Acq: 6 Jun 2014 10:09 am

Tgt Ion:	85	83	Resp:	5232
Ion Ratio	100	25.9	Lower	Upper
			10.1	15.1#



7.1.2
7

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02549.D
Sample : mc30898-3
Misc : op38366,msz101,5.19,,,2,1
ALS Vial : 9 Sample Multiplier: 1
Acq On : 6 Jun 2014 11:26 am

Operator: sofyaz

Quant Time: Jun 10 12:06:18 2014
Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M
Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM

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

Internal Standards						
1) Acenaphthene-d10	27.929	164	128298	1000.00	ng/mL	-0.02
System Monitoring Compounds						
2) Toluene-d8	9.092	98	103315	752.81	ng/mL	0.00
Spiked Amount	1000.000		Recovery	=	75.28%	
3) Naphthalene-d8	20.984	136	185095	762.37	ng/mL	-0.02
Spiked Amount	1000.000		Recovery	=	76.24%	
4) Phenanthrene-d10	33.779	188	168803	803.66	ng/mL	-0.04
Spiked Amount	1000.000		Recovery	=	80.37%	
5) Perylene-d12	49.685	264	151461	820.87	ng/mL	-0.05
Spiked Amount	1000.000		Recovery	=	82.09%	
Target Compounds						
						Qvalue
7) Benzene	6.657	78	5029	26.56	ng/mL#	53
8) C1-Benzene	9.207	92	6985	36.89	ng/mL	97
9) C2-Benzenes	12.182	106	12859m	67.91	ng/mL	
10) C3-Benzenes	15.812	120	11843m	62.54	ng/mL	
11) C4-Benzenes	17.548	134	10871m	57.41	ng/mL	
12) C5-Benzenes	20.214	148	7045m	37.20	ng/mL	
13) Methylcyclohexane	8.004	83	3142	40.97	ng/mL	99
14) Toluene	9.207	91	11557	56.26	ng/mL	99
15) Ethylbenzene	11.951	91	4492	21.22	ng/mL	94
16) m,p-xylene	12.182	91	11650	72.01	ng/mL	98
17) Styrene	12.837	104	9368	78.81	ng/mL	97
18) o-Xylene	12.881	91	5722	32.93	ng/mL	99
19) Isopropylbenzene	13.796	105	1575	7.72	ng/mL	98
20) n-Propylbenzene	14.667	91	3211	13.45	ng/mL	98
21) 1,3,5-Trimethylbenzene	15.078	105	1768	9.55	ng/mL	93
23) 1,2,4-Trimethylbenzene	15.812	105	6746	38.11	ng/mL	99
25) 1,2,3-Trimethylbenzene	16.648	105	2458	12.51	ng/mL	92
26) p-Isopropyltoluene	16.576	119	753	3.42	ng/mL	90
27) n-Butylbenzene	17.548	91	4682	25.62	ng/mL#	77
34) Benzo(b)thiophene	21.289	134	16176	70.15	ng/mL#	82
44) Naphthalene	21.067	128	25882	89.45	ng/mL	99
45) 2-Methylnaphthalene	23.772	142	10065	55.97	ng/mL	99
46) 1-Methylnaphthalene	24.176	142	11280	57.92	ng/mL	100
47) C1-Naphthalenes	24.176	142	21889m	75.65	ng/mL	
48) C2-Naphthalenes	26.601	156	24638m	85.16	ng/mL	
49) C3-Naphthalenes	30.136	170	20642m	71.34	ng/mL	
50) C4-Naphthalenes	32.934	184	15345m	53.04	ng/mL	
51) Biphenyl	25.669	154	4735	20.72	ng/mL	95
52) Acenaphthylene	27.327	152	24863	88.83	ng/mL	96
53) Acenaphthene	28.051	154	4606	26.32	ng/mL	98
54) Dibenzofuran	28.720	168	10171	41.86	ng/mL	98
55) Fluorene	30.078	166	5240	26.79	ng/mL	94
56) C1-Fluorenes	32.447	180	4199m	21.46	ng/mL	
57) C2-Fluorenes	34.637	194	8505m	43.48	ng/mL	
58) C3-Fluorenes	37.183	208	14224m	72.71	ng/mL	
59) Dibenzothiophene	33.382	184	4458m	16.36	ng/mL	
60) C1-Dibenzothiophenes (...)	35.586	198	19366m	71.08	ng/mL	
61) C1-Dibenzothiophenes (...)	35.586	198	10969m	40.26	ng/mL	
62) C2-Dibenzothiophenes	38.087	212	13757m	50.50	ng/mL	
63) C3-Dibenzothiophenes	39.053	226	12754m	46.81	ng/mL	

7.1.3
7

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02549.D

Sample : mc30898-3

Misc : op38366,msz101,5.19,,,2,1

ALS Vial : 9 Sample Multiplier: 1

Acq On : 6 Jun 2014 11:26 am

Operator: sofyaz

Quant Time: Jun 10 12:06:18 2014

Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M

Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) C4-Dibenzothiophenes	40.500	240	16515m	60.62	ng/mL	
65) Phenanthrene	33.875	178	60309	205.54	ng/mL	100
66) Anthracene	34.061	178	24335	86.44	ng/mL#	86
67) C1-Phenanthrenes/anthr...	35.958	192	41626m	141.87	ng/mL	
68) C2-Phenanthrenes/anthr...	37.825	206	45517m	155.13	ng/mL	
69) C2-Phenanthrenes/anthr...	37.825	206	8422m	28.70	ng/mL	
70) C3-Phenanthrenes/anthr...	39.970	220	21569m	73.51	ng/mL	
71) C4-Phenanthrenes/anthr...	41.523	234	11843m	40.36	ng/mL	
72) Retene	40.882	234	436	12.04	ng/mL	89
73) Benzo(b)naphtho(2,1-d)...	43.393	234	9467	35.30	ng/mL	100
78) Fluoranthene	38.647	202	137955	483.46	ng/mL	100
79) Pyrene	39.518	202	129616	431.86	ng/mL	96
80) C1-Fluoranthenes/pyrenes	40.941	216	65716m	218.96	ng/mL	
81) Benzo(b)fluorene	41.188	216	5515m	18.38	ng/mL	
82) Benzo(c)fluorene	41.211	216	2809m	9.36	ng/mL	
83) 2-Methylpyrene	41.329	216	8831m	29.42	ng/mL	
84) 4-Methylpyrene	41.693	216	7671m	25.56	ng/mL	
85) 1-Methylpyrene	41.805	216	5635	18.78	ng/mL#	65
86) C2-Fluoranthenes/pyrenes	43.017	230	48892m	162.90	ng/mL	
87) C3-Fluoranthenes/pyrenes	44.886	244	27107m	90.32	ng/mL	
88) Benz(a)anthracene	44.325	228	66723m	266.04	ng/mL	
89) Chrysene	44.486	228	74028	282.78	ng/mL	99
90) C1-Benz(a)anthracenes/...	45.981	242	34188m	130.59	ng/mL	
91) C2-Benz(a)anthracenes/...	47.711	256	19058m	72.80	ng/mL	
92) C3-Benz(a)anthracenes/...	48.544	270	17472m	66.74	ng/mL	
93) C4-Benz(a)anthracenes/...	51.716	284	16297m	62.25	ng/mL	
94) Benzo(b)fluoranthene	48.392	252	70768	257.02	ng/mL	99
95) Benzo(k)fluoranthene	48.465	252	76180	242.73	ng/mL	99
96) Benzo(e)pyrene	49.325	252	60827	218.82	ng/mL	99
97) Benzo(a)pyrene	49.500	252	76793	308.08	ng/mL	99
98) Perylene	49.770	252	36470	147.87	ng/mL	100
99) Indeno(1,2,3-cd)pyrene	53.061	276	56418m	176.88	ng/mL	
100) Dibenz(a,h)anthracene	53.077	278	18651	66.09	ng/mL#	1
101) Benzo(g,h,i)perylene	53.876	276	69430	216.07	ng/mL	99
102) Coronene	59.847	300	17395	56.53	ng/mL	98
103) C-17	31.769	85	15044	285.52	ng/mL	94
104) Pristane	31.884	85	7718	195.81	ng/mL#	85
105) C-18	33.568	85	16215	309.58	ng/mL	93
106) Phytane	33.753	85	7660	147.42	ng/mL#	72

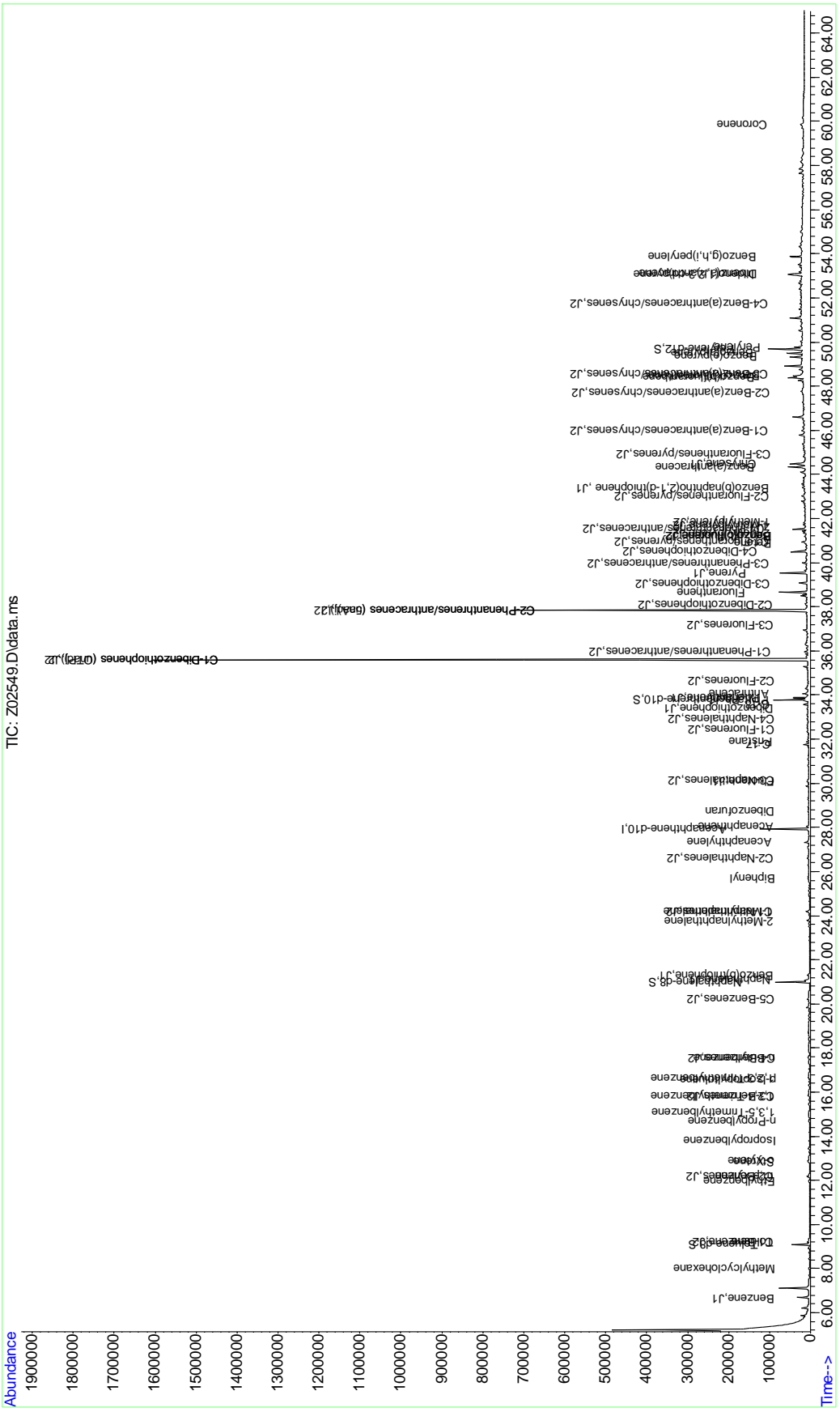
(#) = qualifier out of range (m) = manual integration (+) = signals summed

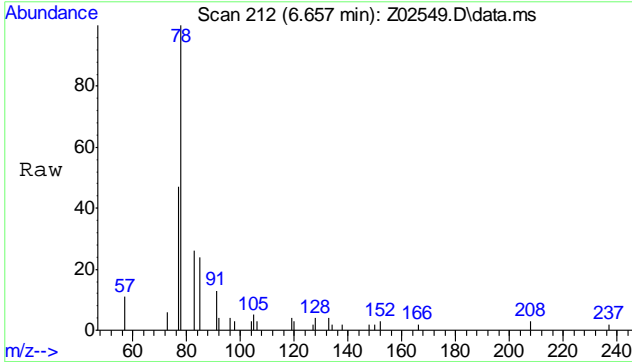
Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02549.D
Sample : mc30898-3
Misc : op38366,msz101,5.19,,,2,1
ALS Vial : 9 Sample Multiplier: 1
Acq On : 6 Jun 2014 11:26 am

Operator: sofyaz

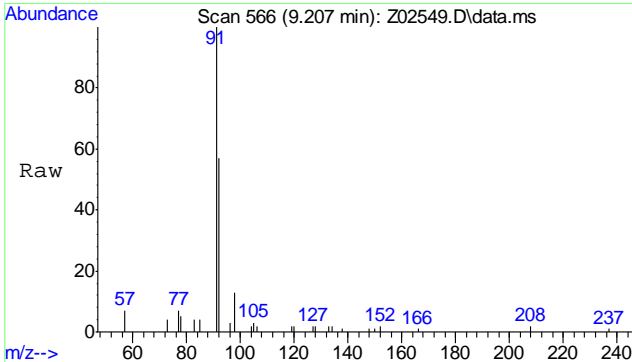
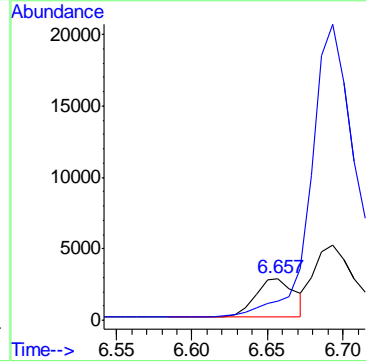
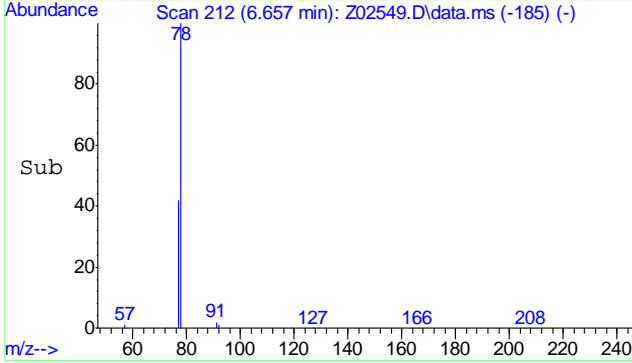
Quant Time: Jun 10 12:06:18 2014
Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M
Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM





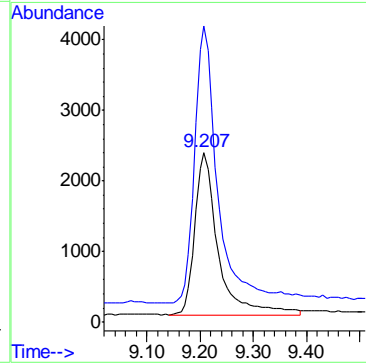
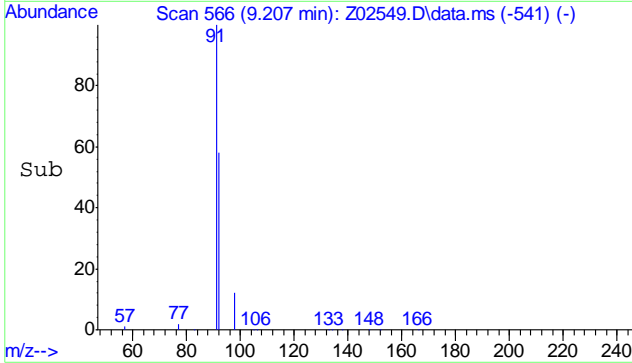
#7
 Benzene
 Concen: 26.56 ng/mL
 RT: 6.657 min Scan# 212
 Delta R.T. -0.007 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
78	100		
77	0.0	18.1	27.1#

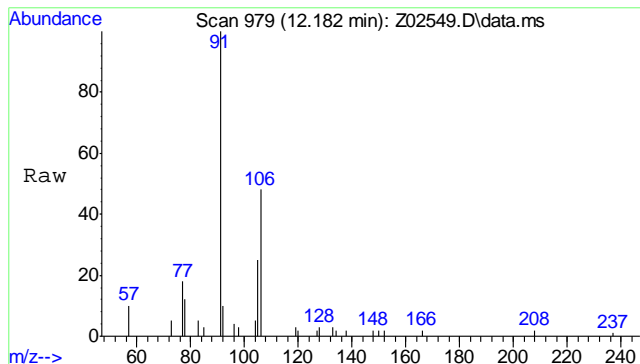


#8
 Cl-Benzene
 Concen: 36.89 ng/mL
 RT: 9.207 min Scan# 566
 Delta R.T. -0.022 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
92	100		
91	165.5	135.7	203.5

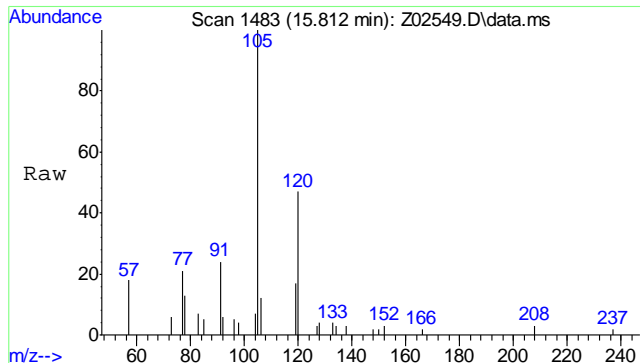
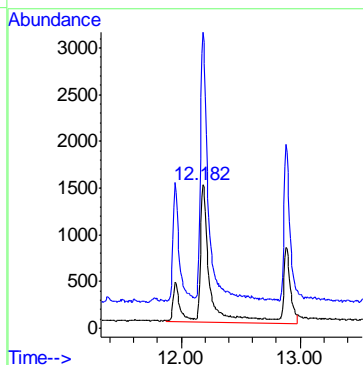
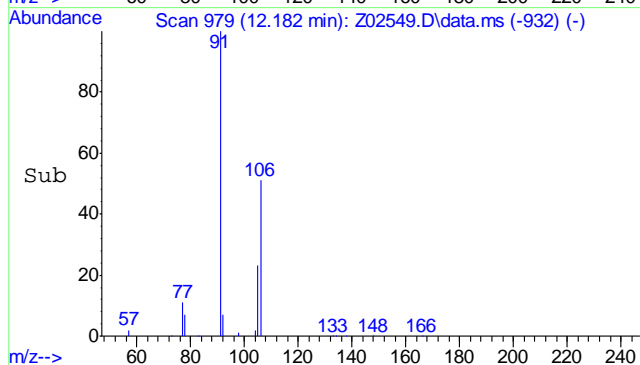


7.1.3
7



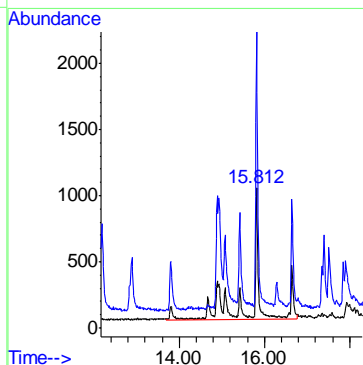
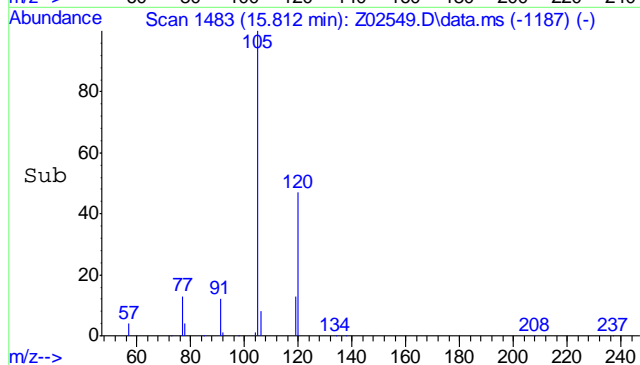
#9
 C2-Benzenes
 Concen: 67.91 ng/mL m
 RT: 12.182 min Scan# 979
 Delta R.T. -0.022 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
106	12859		
106	100		
91	92.3	154.4	231.6#

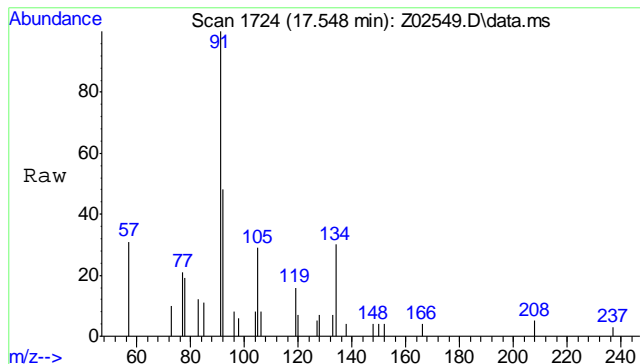


#10
 C3-Benzenes
 Concen: 62.54 ng/mL m
 RT: 15.812 min Scan# 1483
 Delta R.T. -0.015 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
120	11843		
120	100		
105	58.6	169.7	254.5#

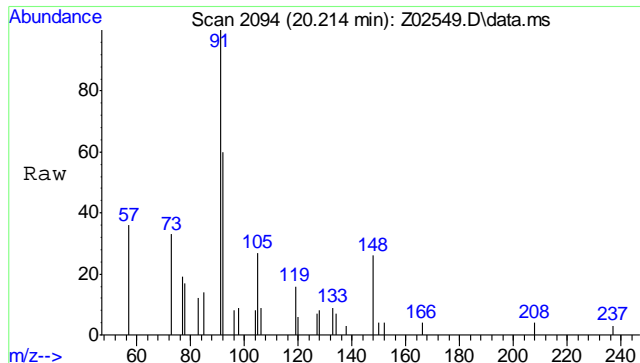
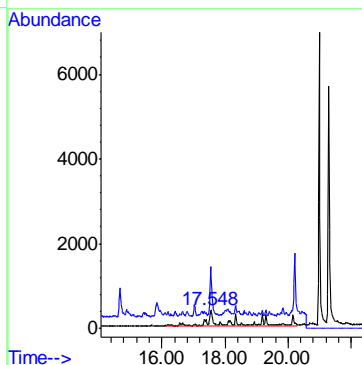
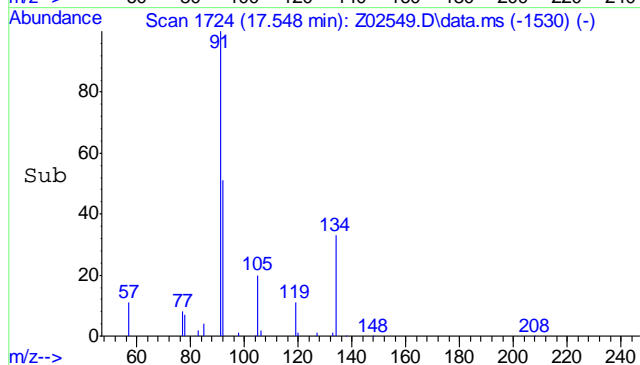


7.1.3
7



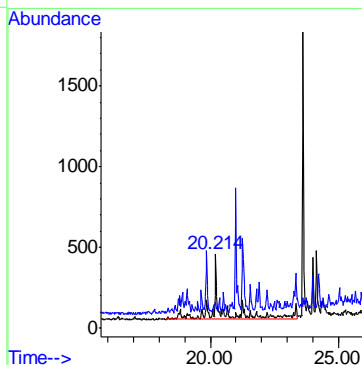
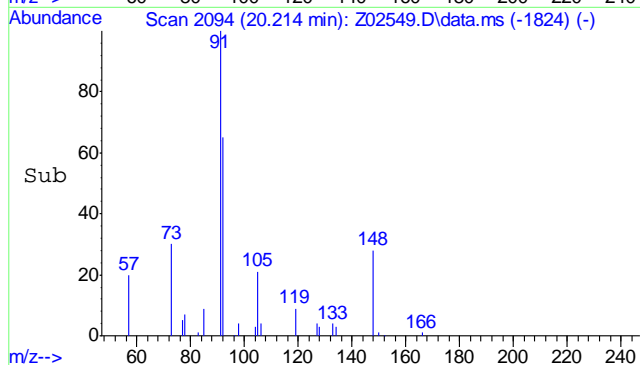
#11
 C4-Benzenes
 Concen: 57.41 ng/mL m
 RT: 17.548 min Scan# 1724
 Delta R.T. -2.656 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:134 Resp: 10871
 Ion Ratio Lower Upper
 134 100
 91 0.0 30.7 46.1#

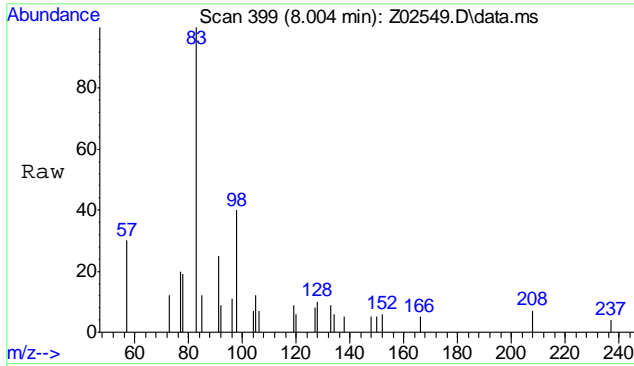


#12
 C5-Benzenes
 Concen: 37.20 ng/mL m
 RT: 20.214 min Scan# 2094
 Delta R.T. 0.285 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:148 Resp: 7045
 Ion Ratio Lower Upper
 148 100
 133 17.8 136.5 204.7#

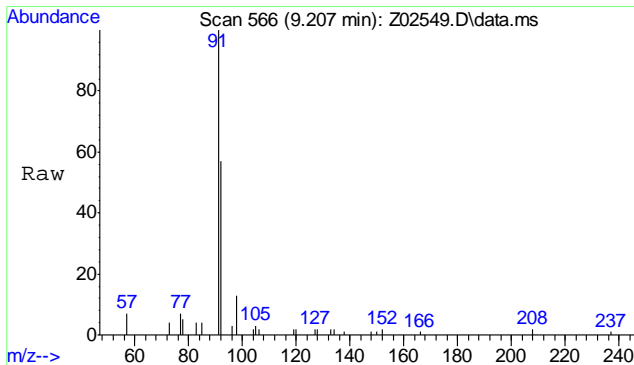
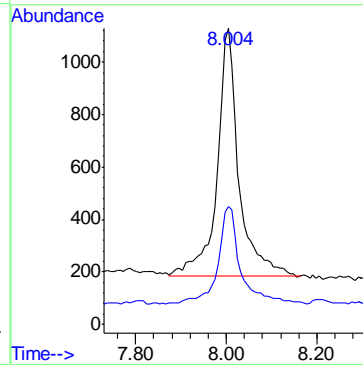
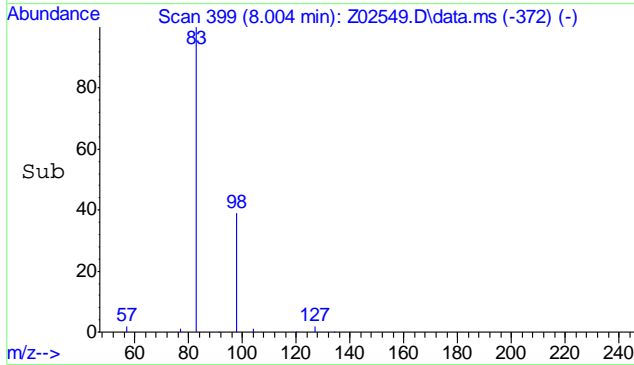


7.1.3
7



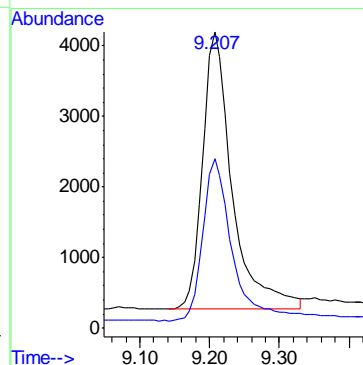
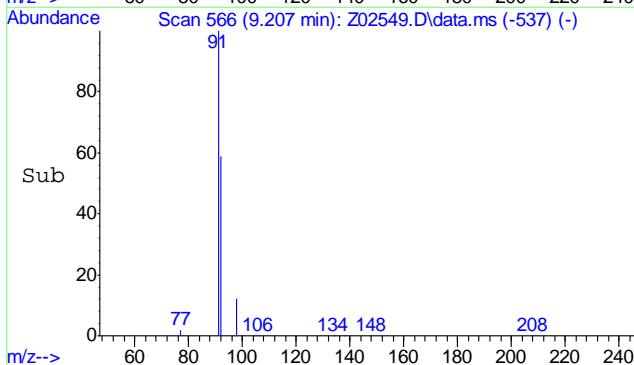
#13
 Methylcyclohexane
 Concen: 40.97 ng/mL
 RT: 8.004 min Scan# 399
 Delta R.T. -0.007 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
83	3142	100	
98	41.1	33.6	50.4

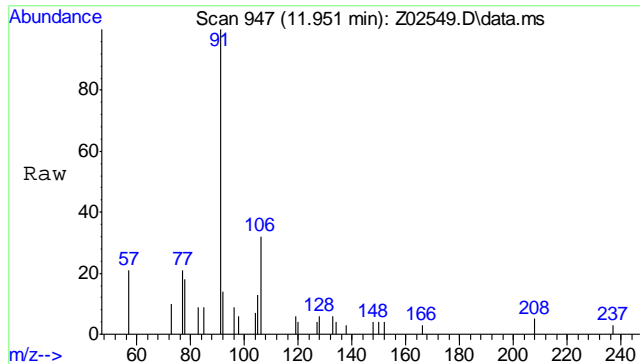


#14
 Toluene
 Concen: 56.26 ng/mL
 RT: 9.207 min Scan# 566
 Delta R.T. 0.007 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
91	11557	100	
92	59.7	47.0	70.4

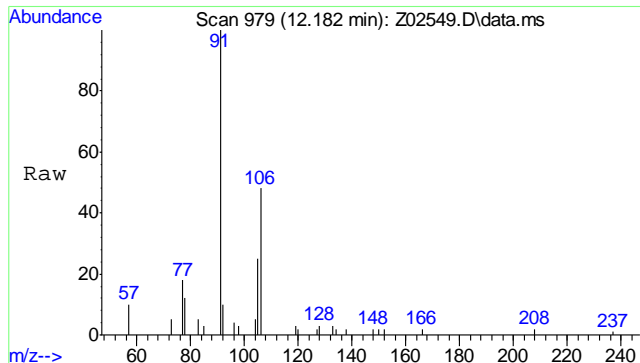
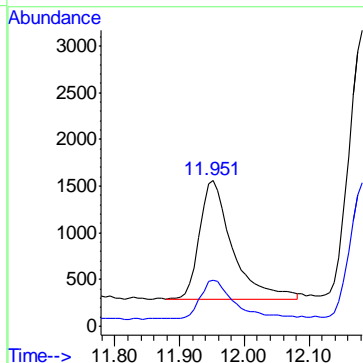
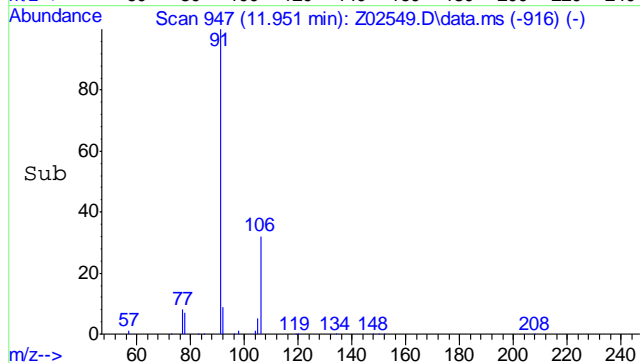


7.1.3
7



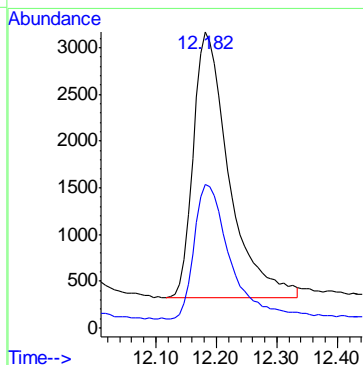
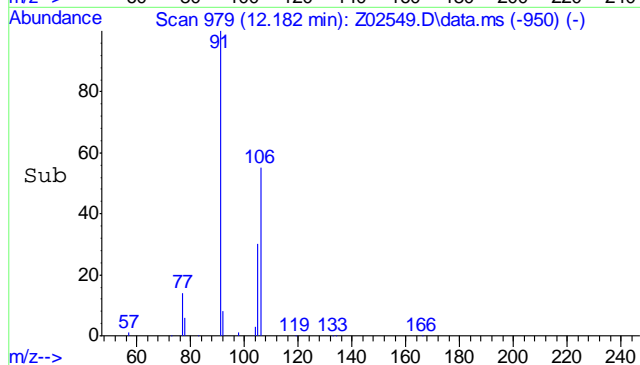
#15
 Ethylbenzene
 Concen: 21.22 ng/mL
 RT: 11.951 min Scan# 947
 Delta R.T. 0.021 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	33.7	24.3	36.5

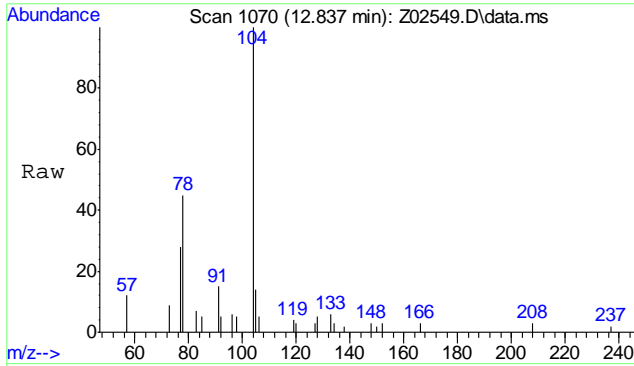


#16
 m,p-xylene
 Concen: 72.01 ng/mL
 RT: 12.182 min Scan# 979
 Delta R.T. 0.007 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	51.2	39.7	59.5

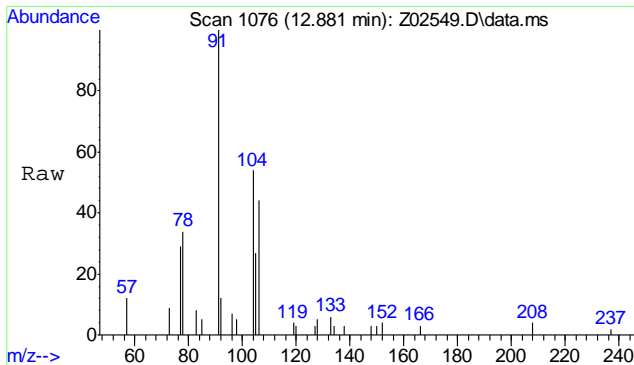
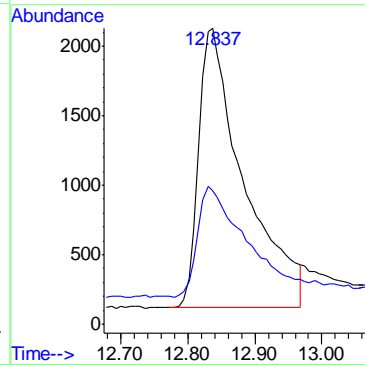
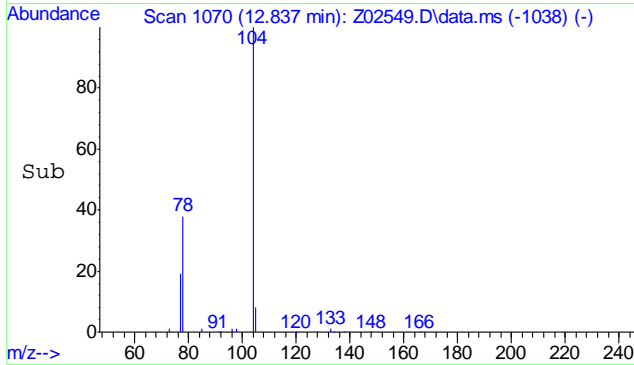


7.1.3
7



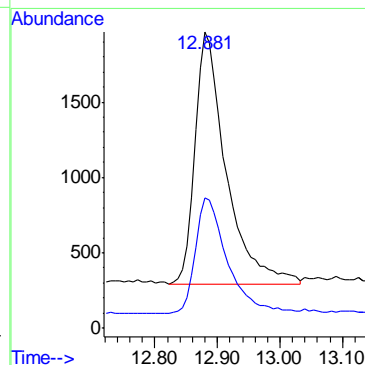
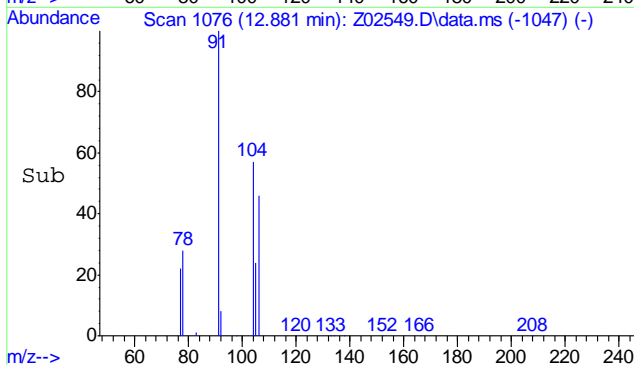
#17
 Styrene
 Concen: 78.81 ng/mL
 RT: 12.837 min Scan# 1070
 Delta R.T. 0.028 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	104	Resp:	9368
Ion Ratio	Lower	Upper	
104	100		
78	43.1	33.0	49.4

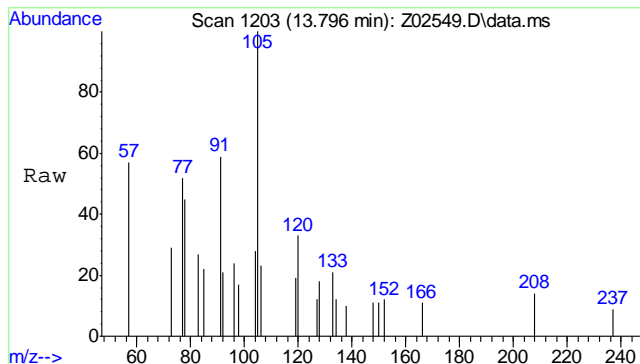


#18
 o-Xylene
 Concen: 32.93 ng/mL
 RT: 12.881 min Scan# 1076
 Delta R.T. 0.007 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	91	Resp:	5722
Ion Ratio	Lower	Upper	
91	100		
106	47.9	37.6	56.4

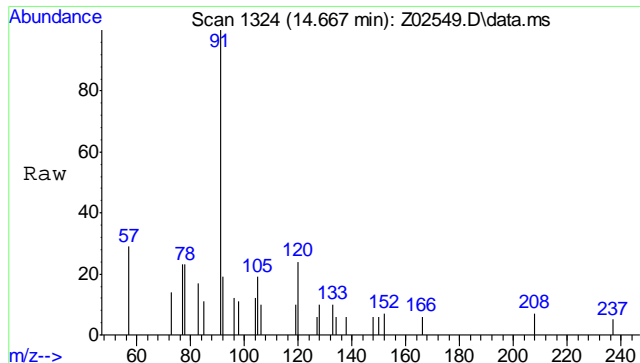
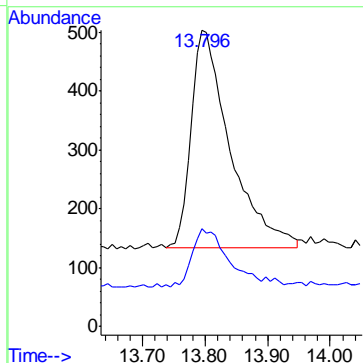
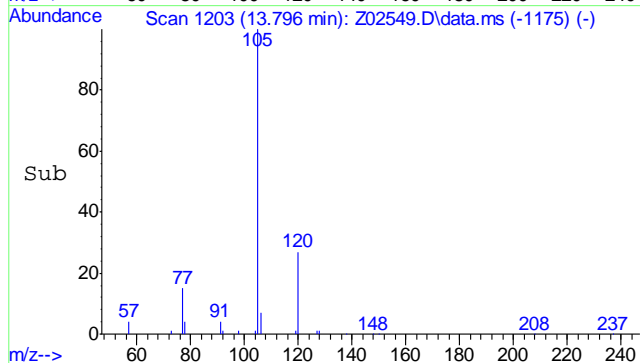


7.1.3
7



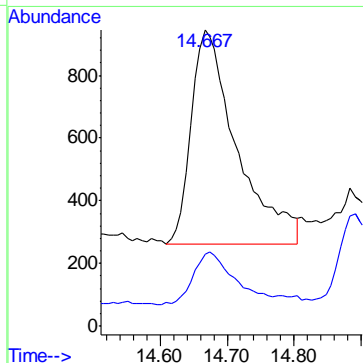
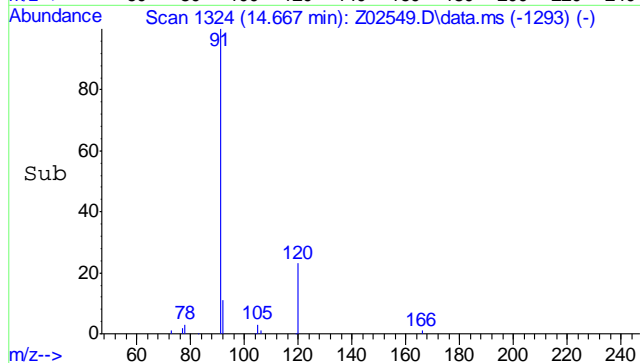
#19
 Isopropylbenzene
 Concen: 7.72 ng/mL
 RT: 13.796 min Scan# 1203
 Delta R.T. -0.000 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
105	1575	100	
120	25.0	20.7	31.1

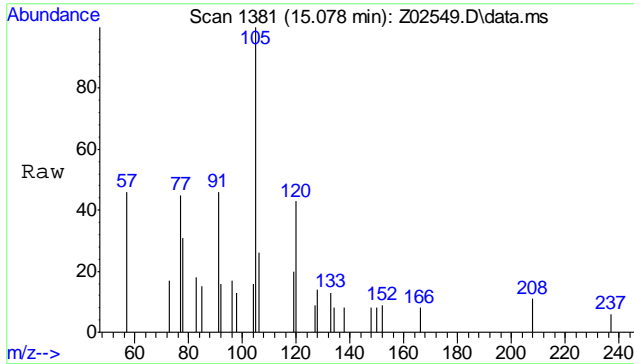


#20
 n-Propylbenzene
 Concen: 13.45 ng/mL
 RT: 14.667 min Scan# 1324
 Delta R.T. 0.021 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
91	3211	100	
120	22.0	18.2	27.2

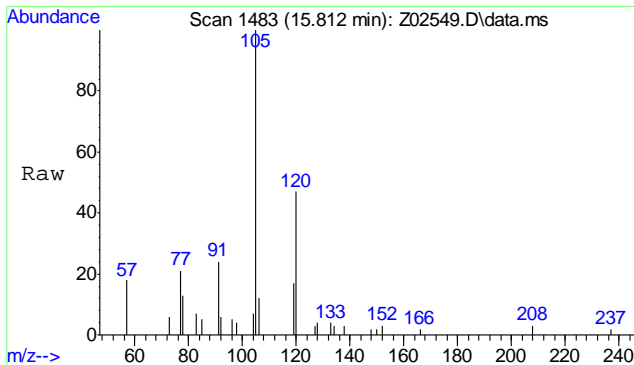
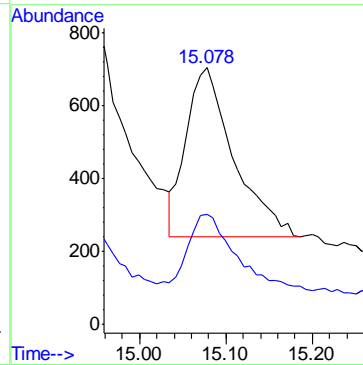
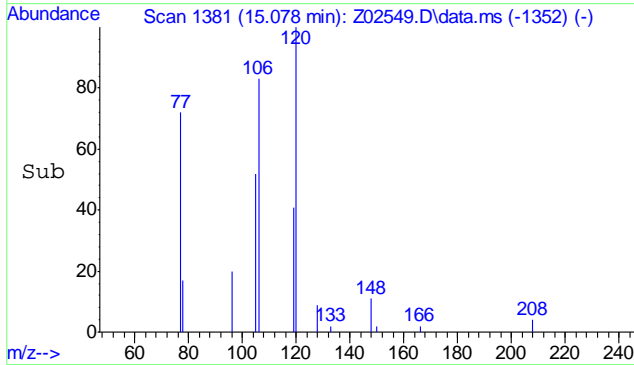


7.1.3
7



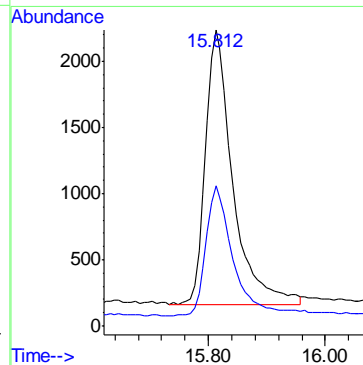
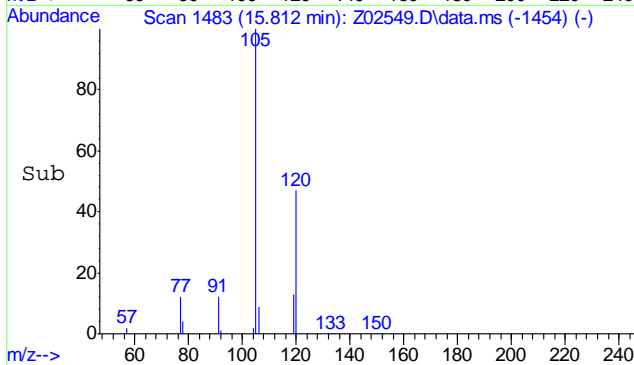
#21
 1,3,5-Trimethylbenzene
 Concen: 9.55 ng/mL
 RT: 15.078 min Scan# 1381
 Delta R.T. 0.007 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
105	100		
120	44.5	39.2	58.8

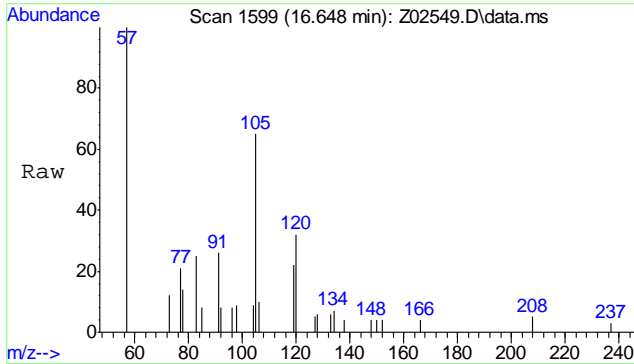


#23
 1,2,4-Trimethylbenzene
 Concen: 38.11 ng/mL
 RT: 15.812 min Scan# 1483
 Delta R.T. 0.007 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
105	100		
120	46.6	37.9	56.9

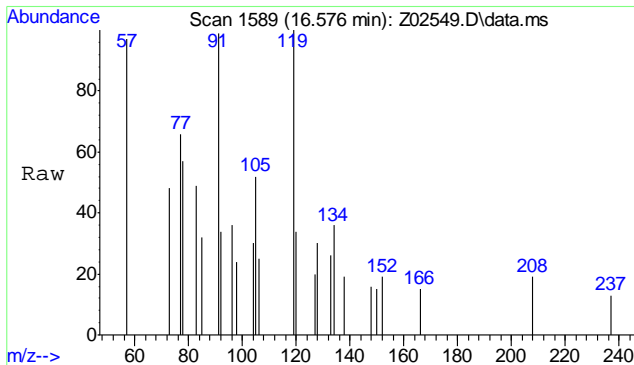
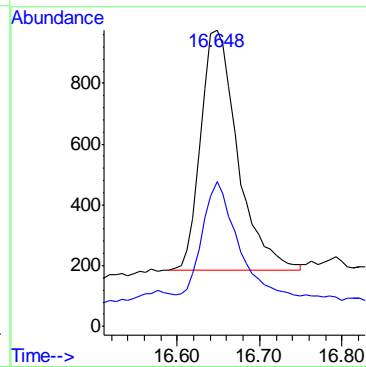
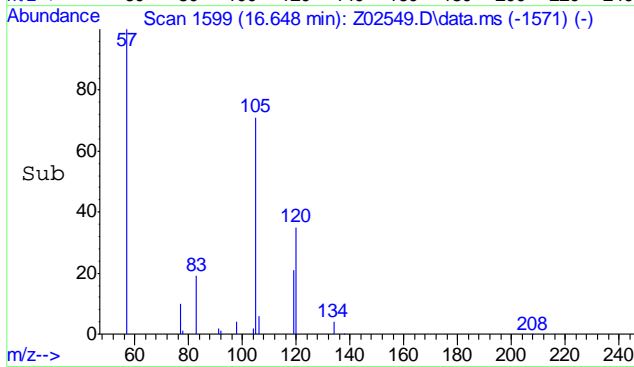


7.1.3
7



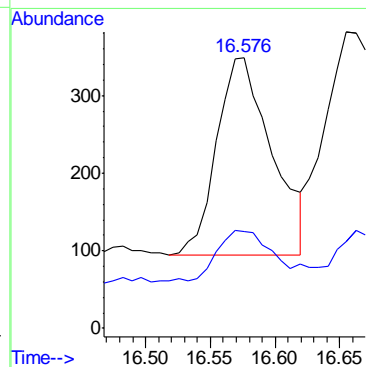
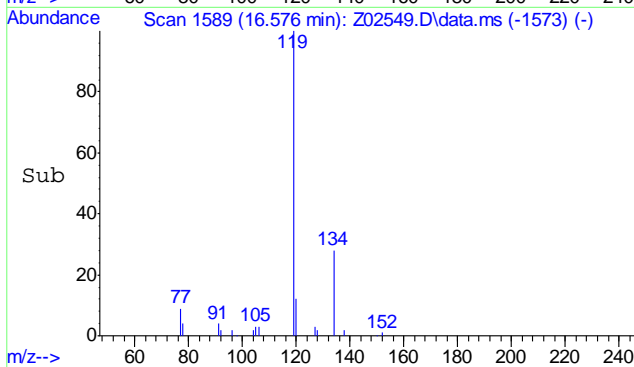
#25
 1,2,3-Trimethylbenzene
 Concen: 12.51 ng/mL
 RT: 16.648 min Scan# 1599
 Delta R.T. -0.000 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
105	2458		
105	100		
120	50.7	36.3	54.5

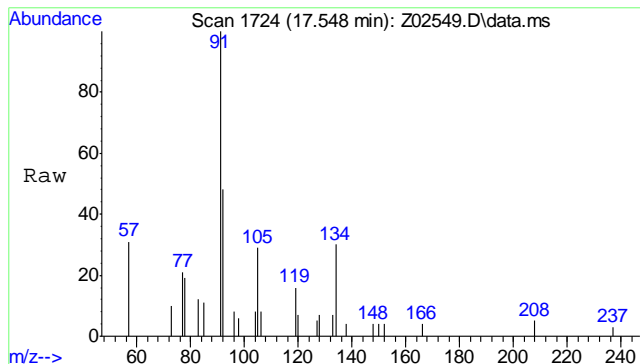


#26
 p-Isopropyltoluene
 Concen: 3.42 ng/mL
 RT: 16.576 min Scan# 1589
 Delta R.T. -0.087 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
119	753		
119	100		
134	28.3	18.9	28.3

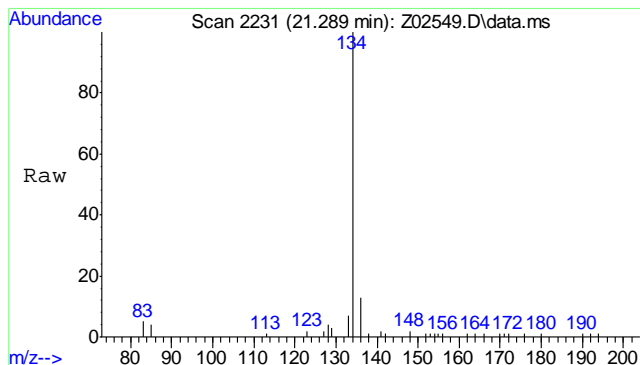
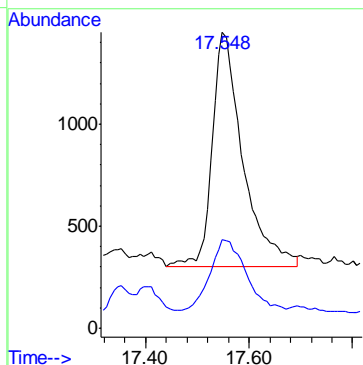
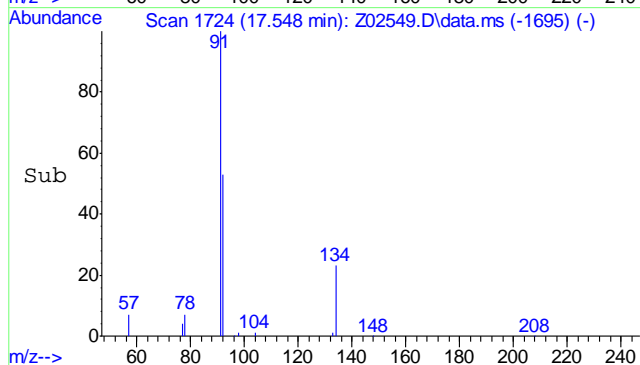


7.1.3
7



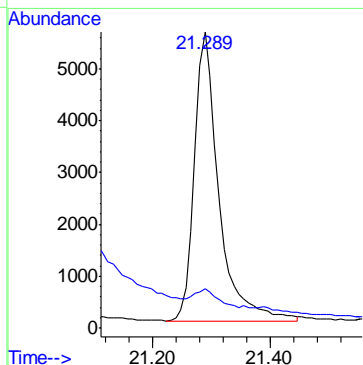
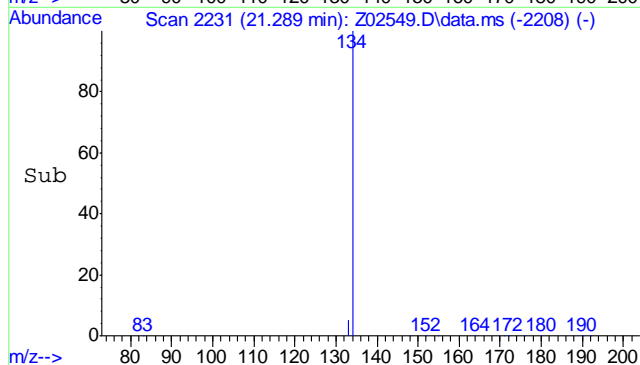
#27
 n-Butylbenzene
 Concen: 25.62 ng/mL
 RT: 17.548 min Scan# 1724
 Delta R.T. 0.007 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
91	4682	100	
134	35.7	19.5	29.3#

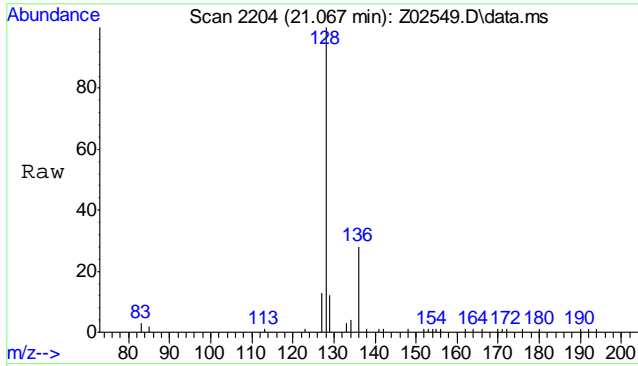


#34
 Benzo(b)thiophene
 Concen: 70.15 ng/mL
 RT: 21.289 min Scan# 2231
 Delta R.T. -0.009 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
134	16176	100	
136	11.6	4.5	6.7#

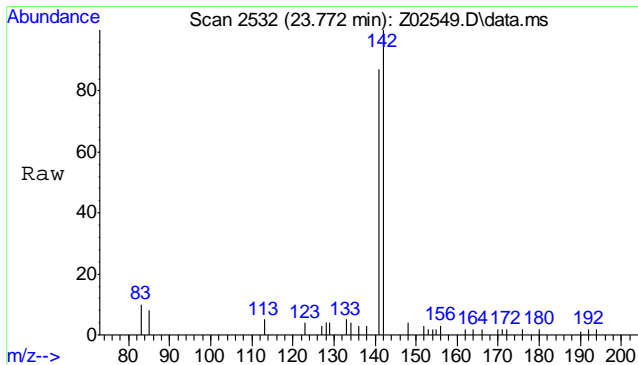
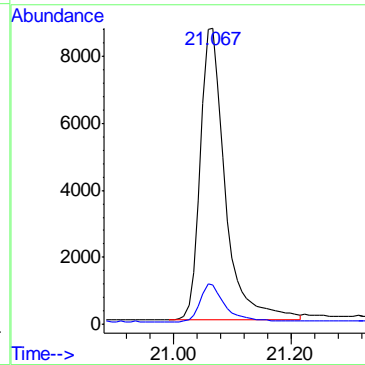
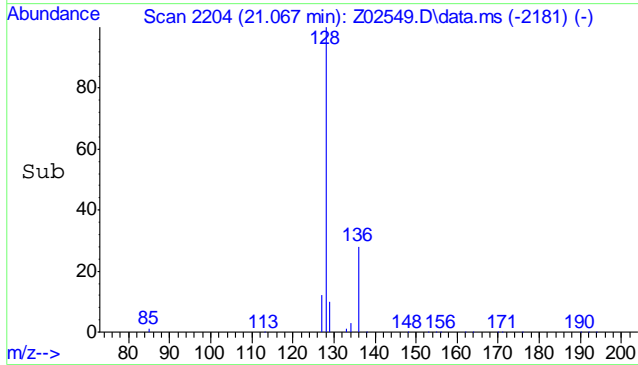


7.1.3
7



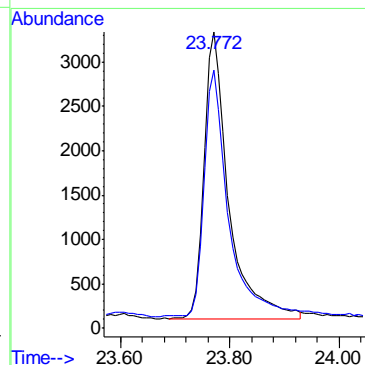
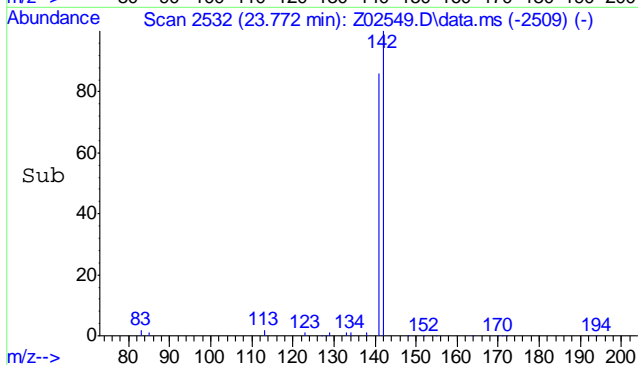
#44
 Naphthalene
 Concen: 89.45 ng/mL
 RT: 21.067 min Scan# 2204
 Delta R.T. -0.008 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	9.9	14.9

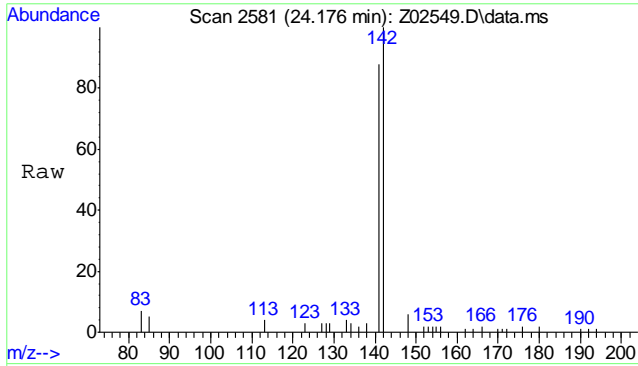


#45
 2-Methylnaphthalene
 Concen: 55.97 ng/mL
 RT: 23.772 min Scan# 2532
 Delta R.T. -0.008 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.7	68.5	102.7

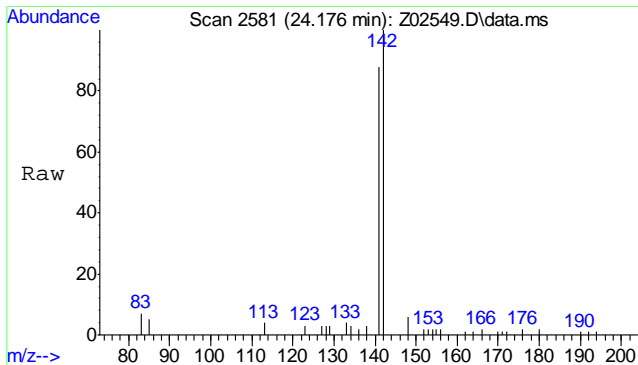
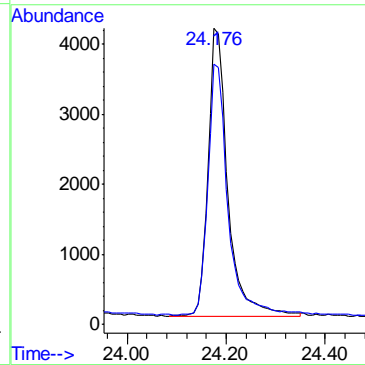
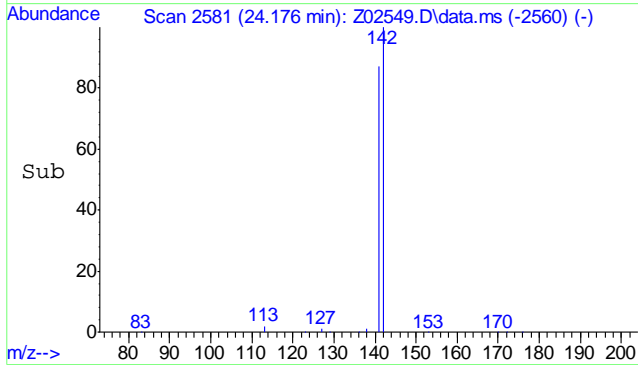


7.1.3
7



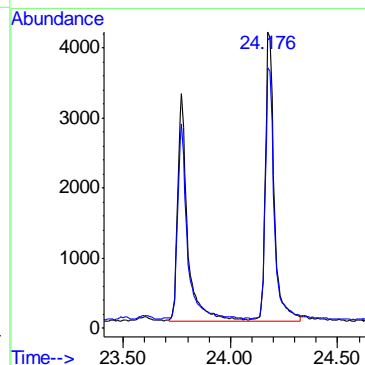
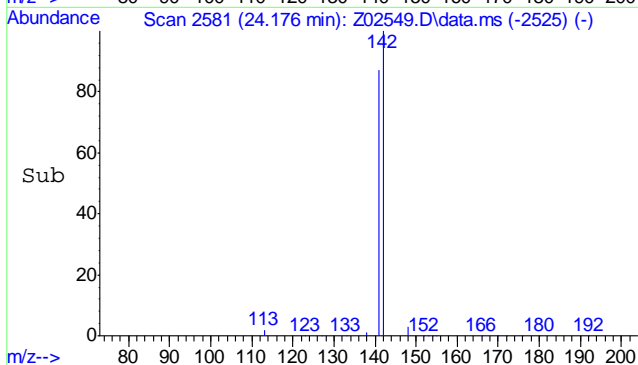
#46
 1-Methylnaphthalene
 Concen: 57.92 ng/mL
 RT: 24.176 min Scan# 2581
 Delta R.T. -0.025 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.1	106.7

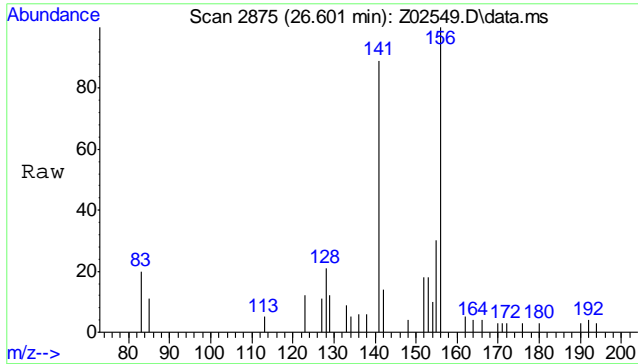


#47
 Cl-Naphthalenes
 Concen: 75.65 ng/mL m
 RT: 24.176 min Scan# 2581
 Delta R.T. 0.389 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Ratio	Lower	Upper
142	100		
141	39.4	68.5	102.7#

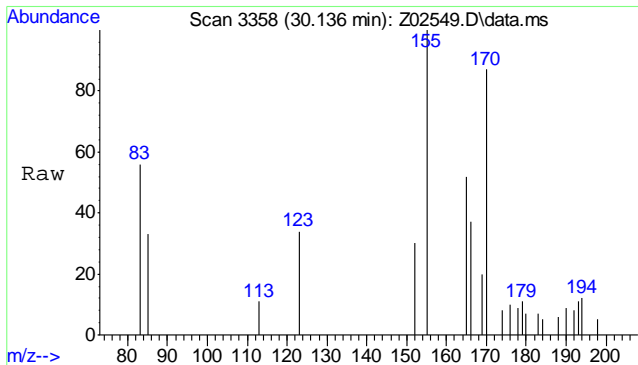
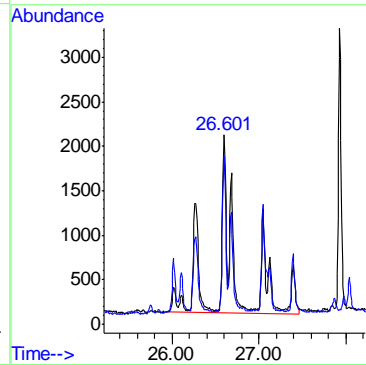
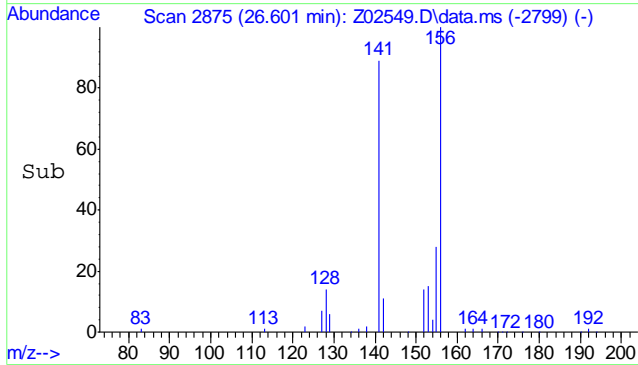


7.1.3
7



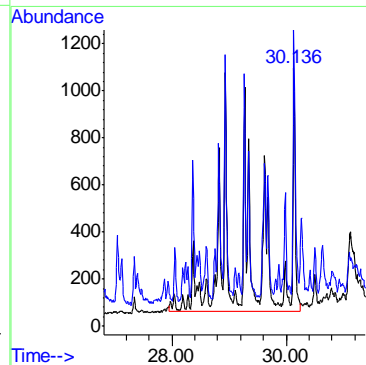
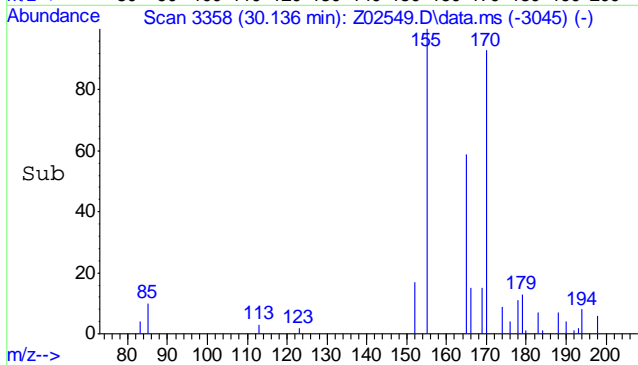
#48
 C2-Naphthalenes
 Concen: 85.16 ng/mL m
 RT: 26.601 min Scan# 2875
 Delta R.T. -0.107 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	156	Resp:	24638
Ion Ratio	Lower	Upper	
	156	100	
	141	12.1	58.1 87.1#

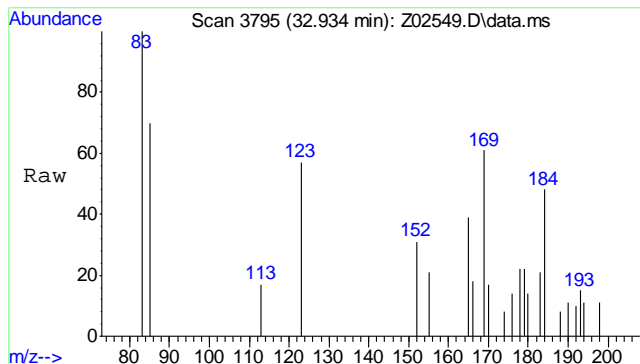


#49
 C3-Naphthalenes
 Concen: 71.34 ng/mL m
 RT: 30.136 min Scan# 3358
 Delta R.T. 1.186 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	170	Resp:	20642
Ion Ratio	Lower	Upper	
	170	100	
	155	13.0	75.6 113.4#

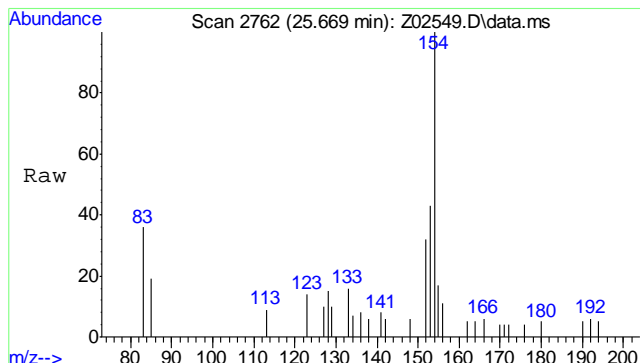
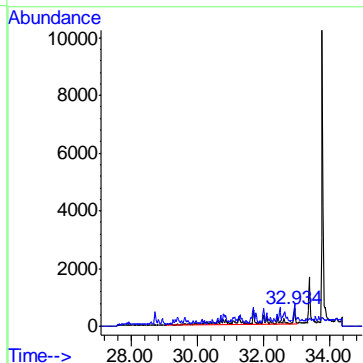
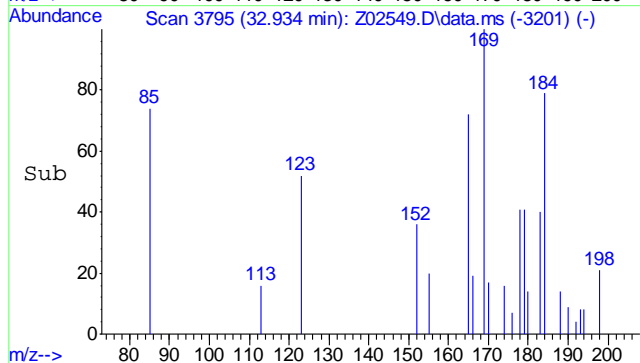


7.1.3
7



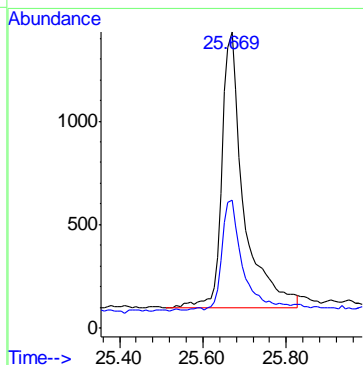
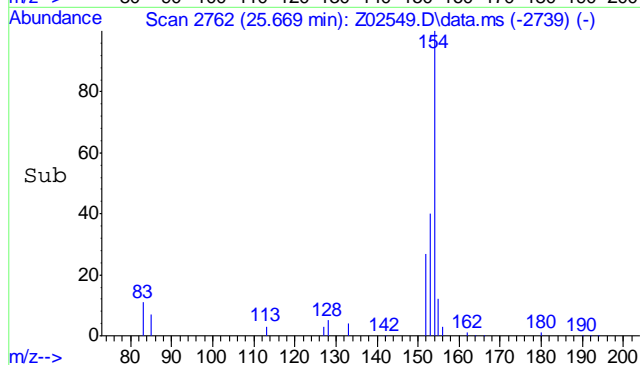
#50
 C4-Naphthalenes
 Concen: 53.04 ng/mL m
 RT: 32.934 min Scan# 3795
 Delta R.T. 1.264 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:184	Resp:	15345
Ion Ratio	Lower	Upper
184	100	
169	11.8	3.0 4.4#

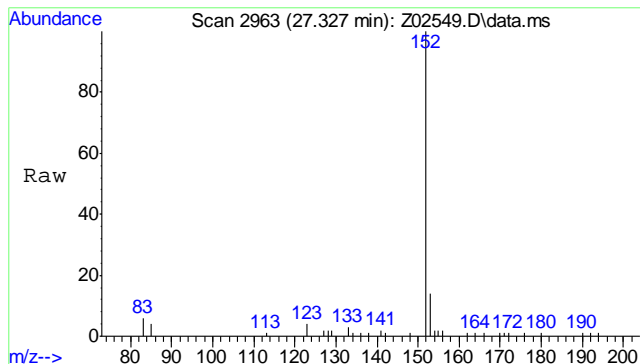


#51
 Biphenyl
 Concen: 20.72 ng/mL
 RT: 25.669 min Scan# 2762
 Delta R.T. -0.008 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:154	Resp:	4735
Ion Ratio	Lower	Upper
154	100	
153	36.5	31.7 47.5

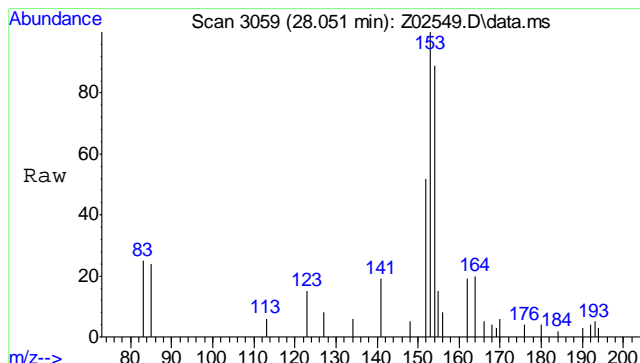
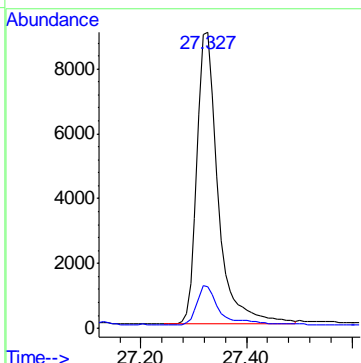
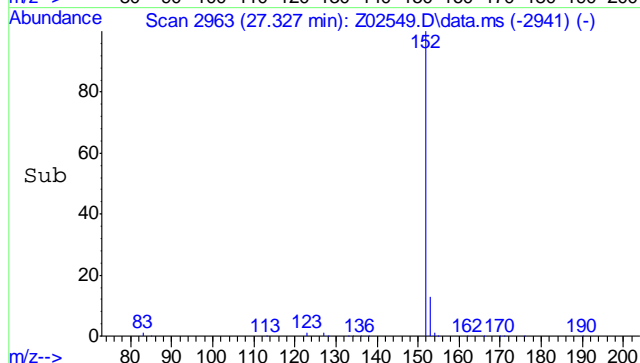


7.1.3
7



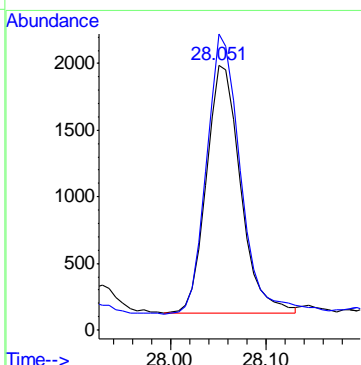
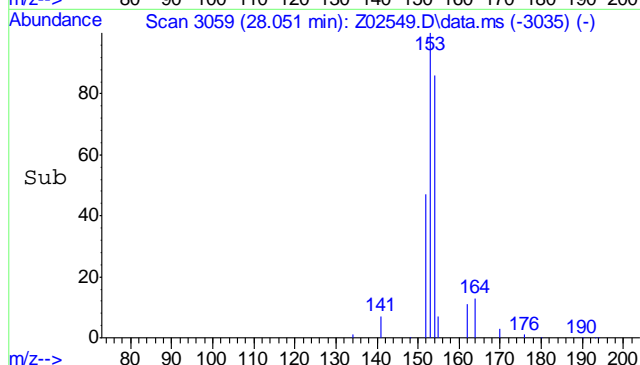
#52
 Acenaphthylene
 Concen: 88.83 ng/mL
 RT: 27.327 min Scan# 2963
 Delta R.T. -0.016 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
152	100		
153	14.7	10.3	15.5

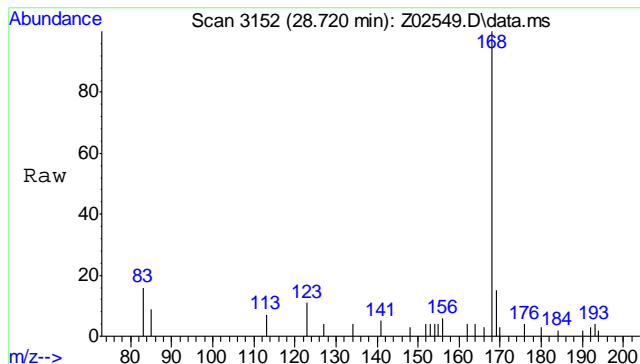


#53
 Acenaphthene
 Concen: 26.32 ng/mL
 RT: 28.051 min Scan# 3059
 Delta R.T. -0.029 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
154	100		
153	113.5	88.8	133.2

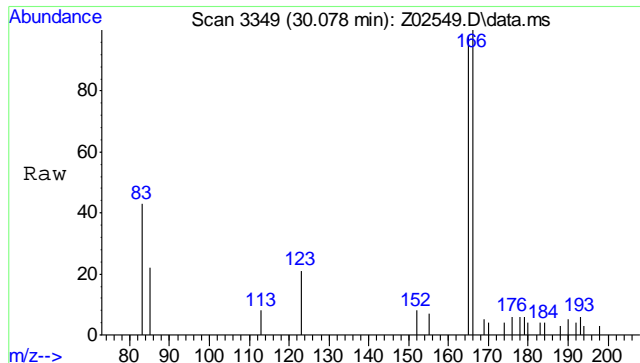
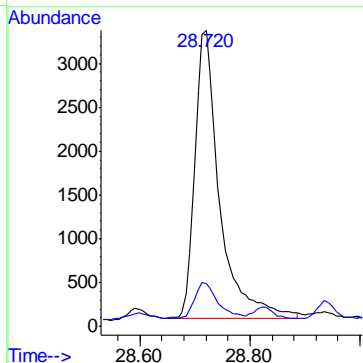
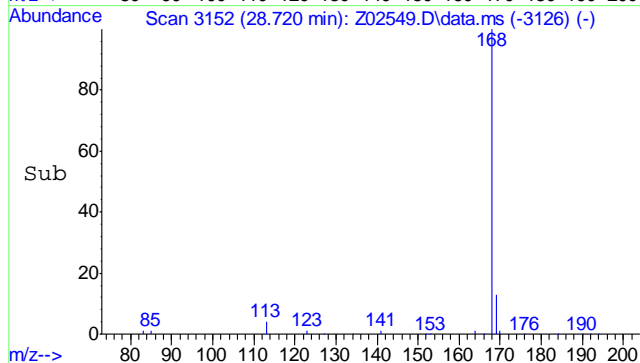


7.1.3
7



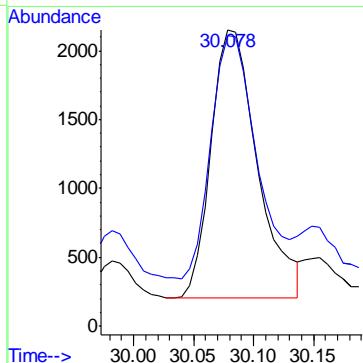
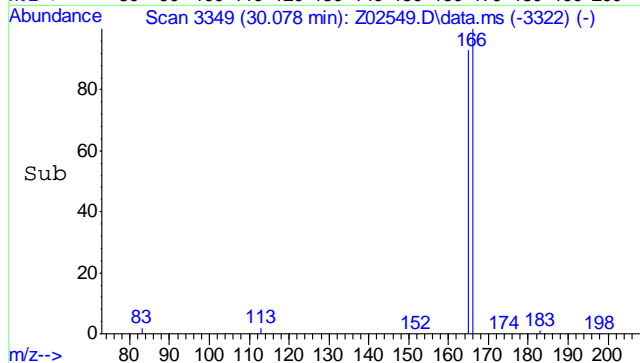
#54
 Dibenzofuran
 Concen: 41.86 ng/mL
 RT: 28.720 min Scan# 3152
 Delta R.T. -0.014 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
168	10171	100	
169	12.3	10.4	15.6

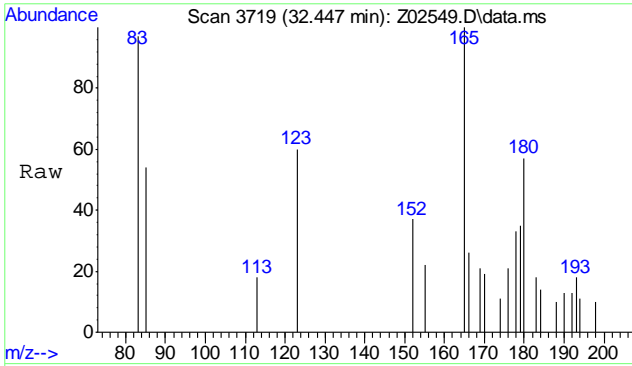


#55
 Fluorene
 Concen: 26.79 ng/mL
 RT: 30.078 min Scan# 3349
 Delta R.T. -0.026 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
166	5240	100	
165	88.2	75.4	113.2

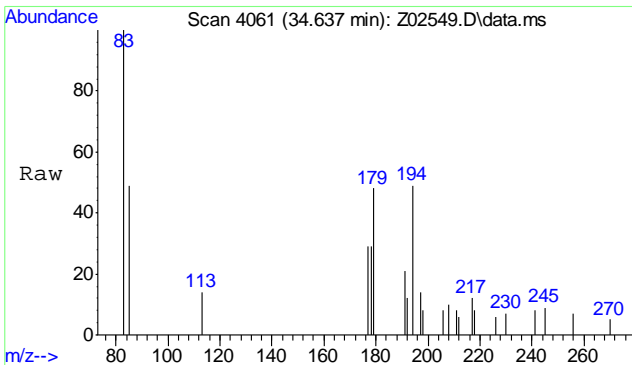
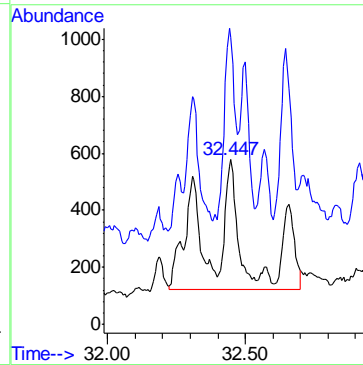
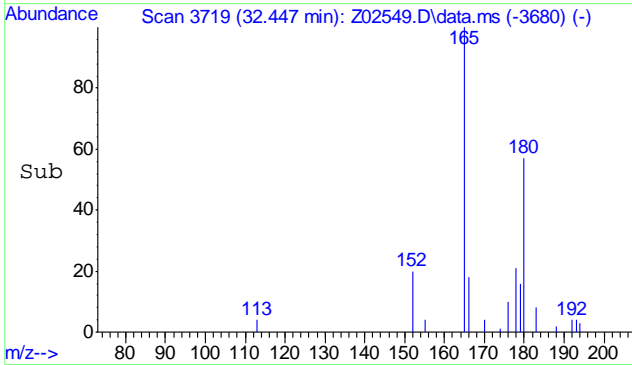


7.1.3
7



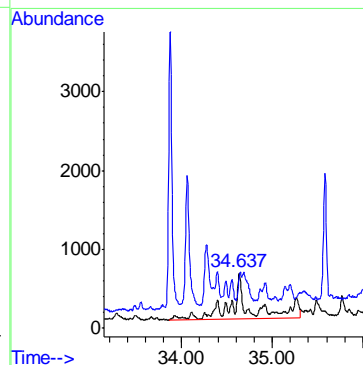
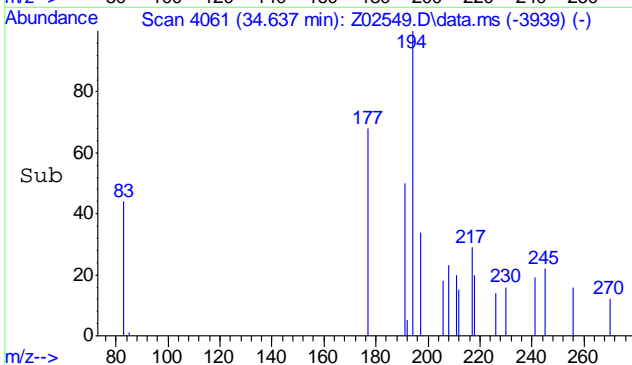
#56
 C1-Fluorenes
 Concen: 21.46 ng/mL m
 RT: 32.447 min Scan# 3719
 Delta R.T. 0.011 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

 Tgt Ion:180 Resp: 4199
 Ion Ratio Lower Upper
 180 100
 165 42.6 121.1 181.7#

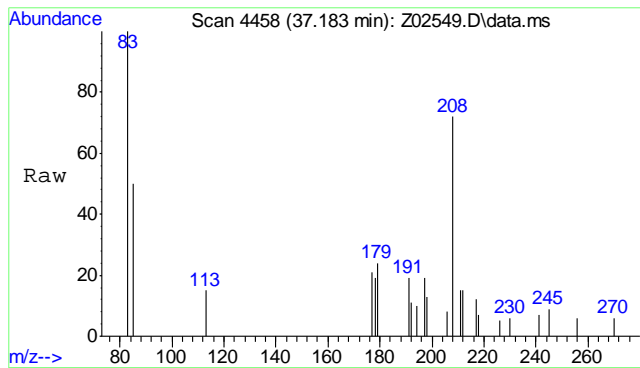


#57
 C2-Fluorenes
 Concen: 43.48 ng/mL m
 RT: 34.637 min Scan# 4061
 Delta R.T. 0.014 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

 Tgt Ion:194 Resp: 8505
 Ion Ratio Lower Upper
 194 100
 179 8.7 110.2 165.4#

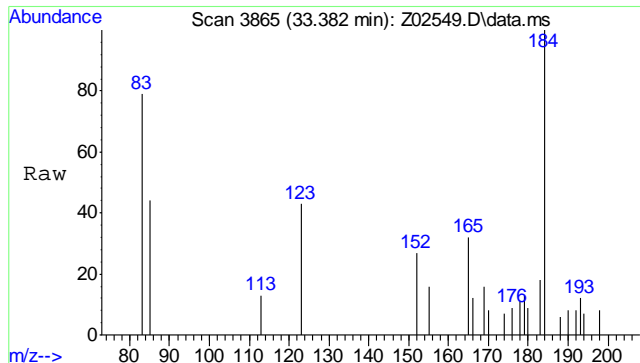
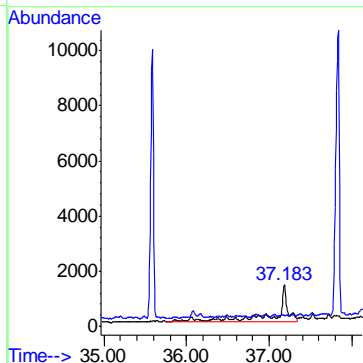
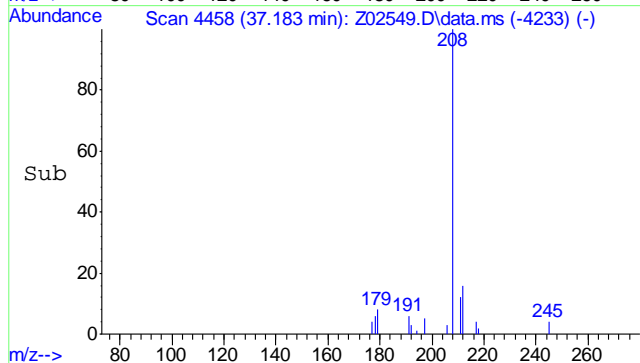


7.1.3
7



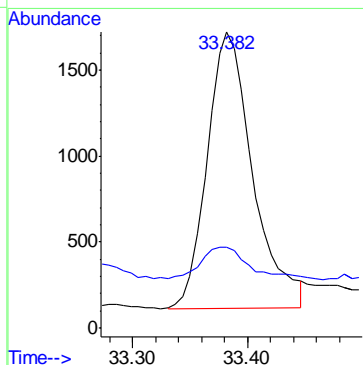
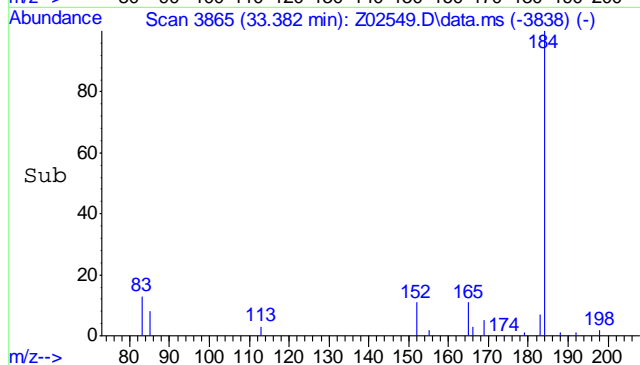
#58
 C3-Fluorenes
 Concen: 72.71 ng/mL m
 RT: 37.183 min Scan# 4458
 Delta R.T. 0.738 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion: 208	Resp: 14224
Ion Ratio	Lower Upper
208	100
178	1.5 48.0 72.0#

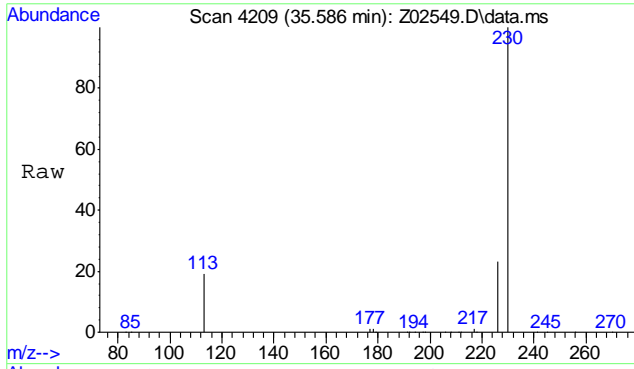


#59
 Dibenzothiophene
 Concen: 16.36 ng/mL m
 RT: 33.382 min Scan# 3865
 Delta R.T. -0.026 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion: 184	Resp: 4458
Ion Ratio	Lower Upper
184	100
152	12.8 7.4 11.0#

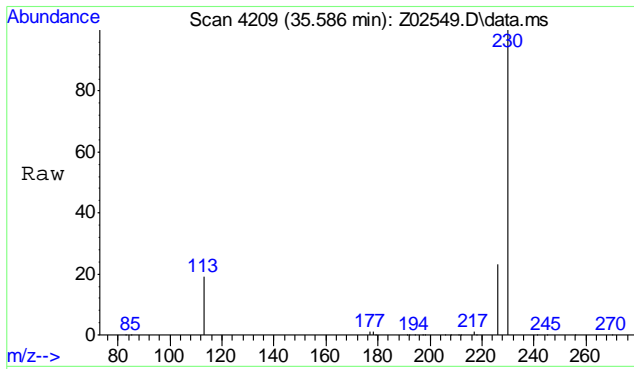
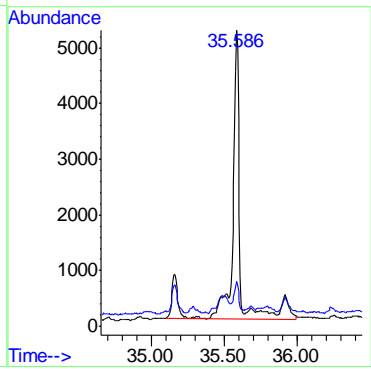
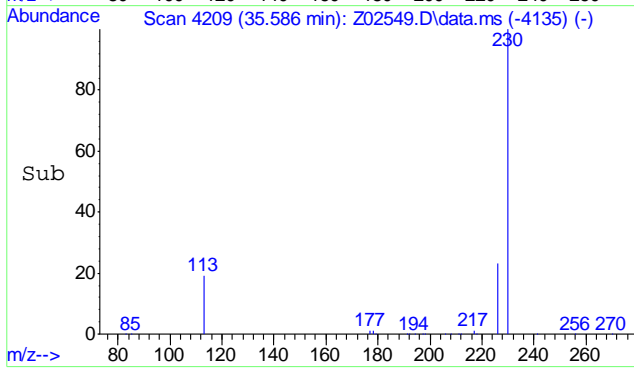


7.1.3
7



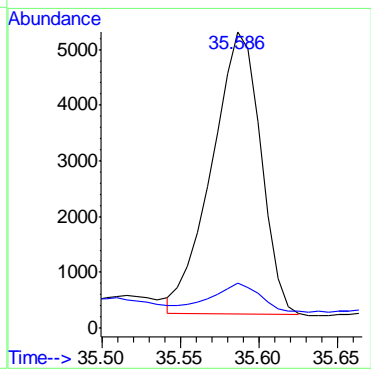
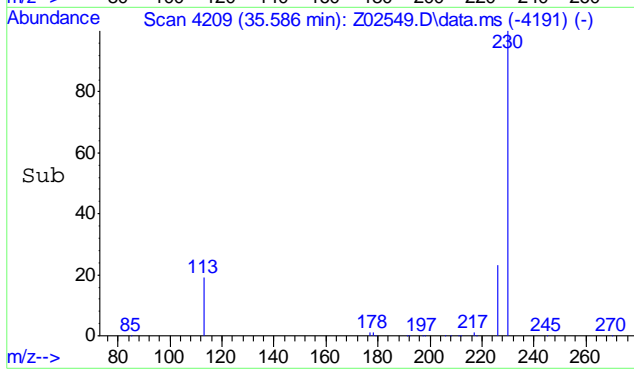
#60
 Cl-Dibenzothiophenes (unadj)
 Concen: 71.08 ng/mL m
 RT: 35.586 min Scan# 4209
 Delta R.T. 0.453 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:198	Resp:	19366
Ion Ratio	Lower	Upper
198	100	
197	6.7	53.7 80.5#

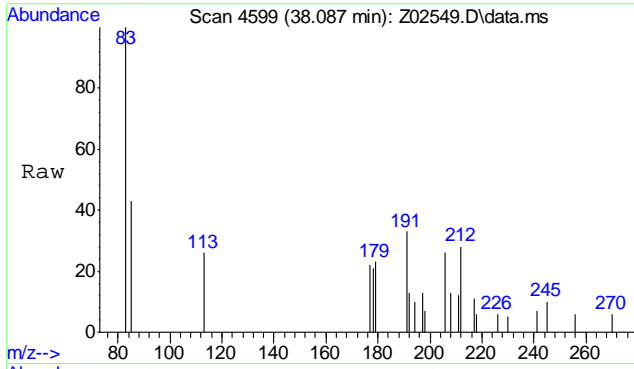


#61
 Cl-Dibenzothiophenes (OTP)
 Concen: 40.26 ng/mL m
 RT: 35.586 min Scan# 4209
 Delta R.T. 0.027 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:198	Resp:	10969
Ion Ratio	Lower	Upper
198	100	
197	0.0	121.8 182.6#

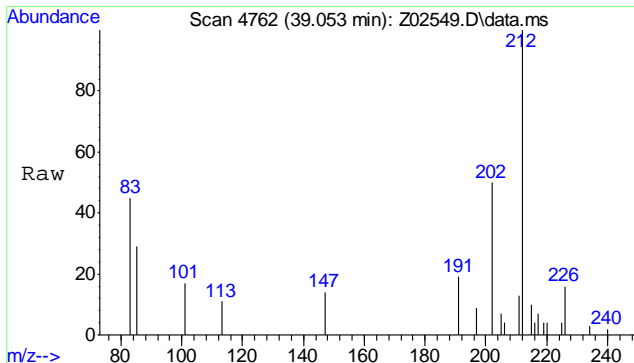
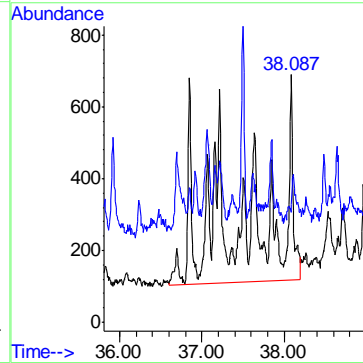
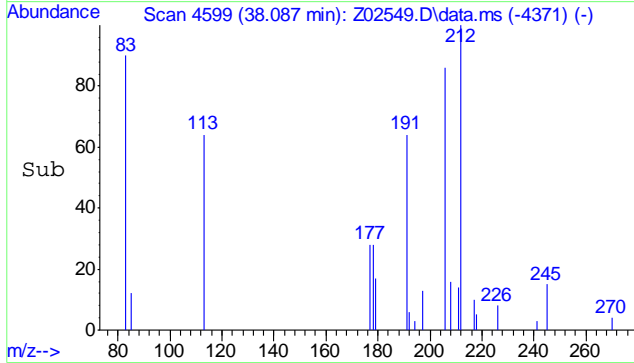


7.1.3
7



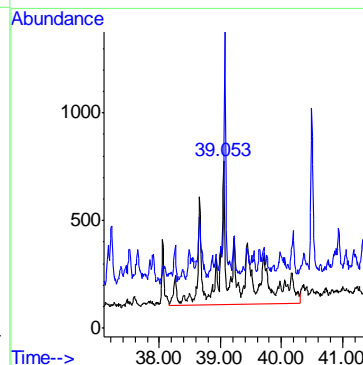
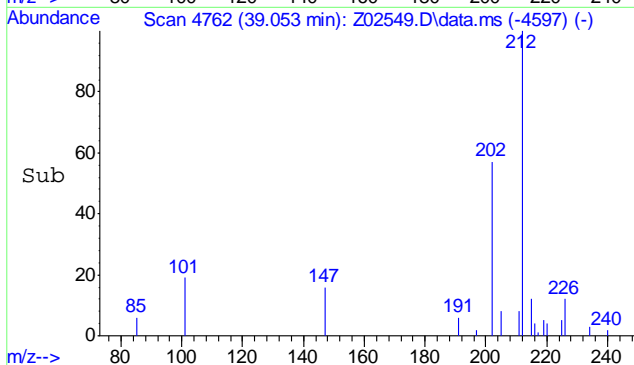
#62
 C2-Dibenzothiophenes
 Concen: 50.50 ng/mL m
 RT: 38.087 min Scan# 4599
 Delta R.T. 0.916 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
212	13757	100	
197	2.9	17.2	25.8#

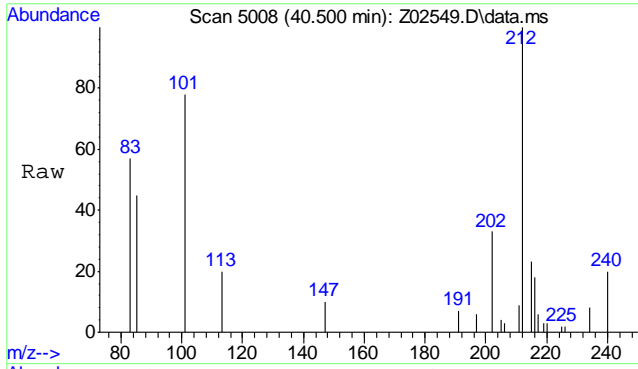


#63
 C3-Dibenzothiophenes
 Concen: 46.81 ng/mL m
 RT: 39.053 min Scan# 4762
 Delta R.T. 0.437 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

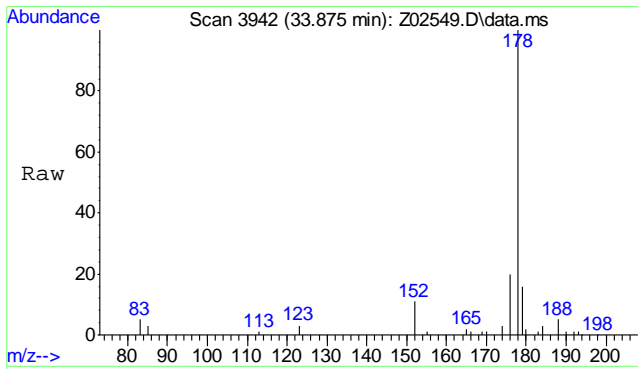
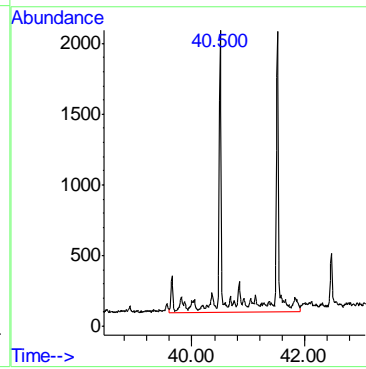
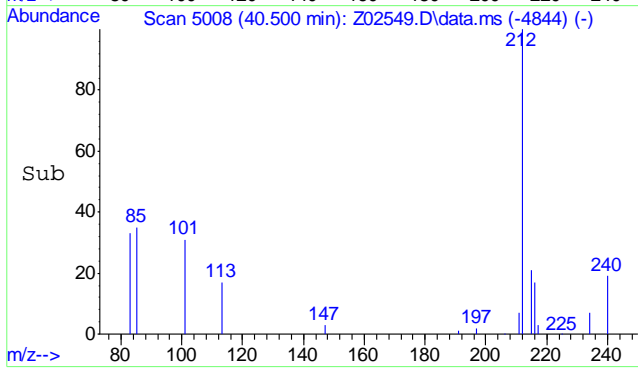
Tgt Ion	Resp	Lower	Upper
226	12754	100	
211	5.4	43.3	64.9#



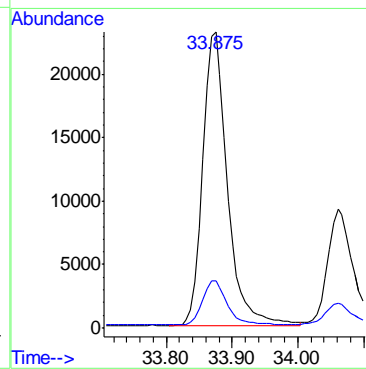
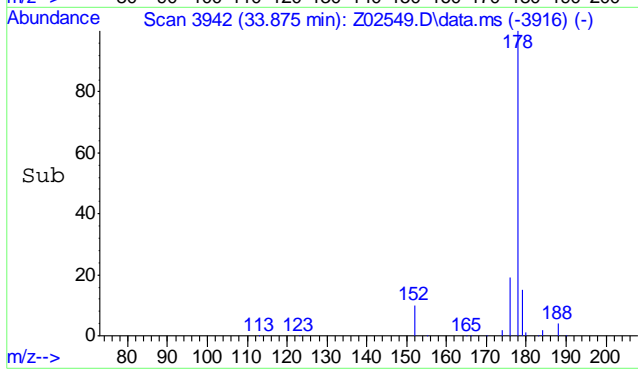
7.1.3
7



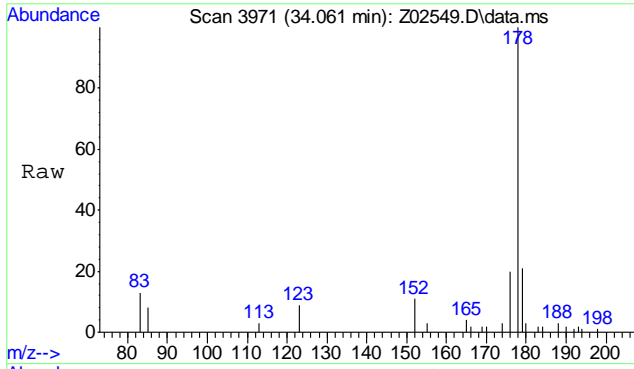
#64
 C4-Dibenzothiophenes
 Concen: 60.62 ng/mL m
 RT: 40.500 min Scan# 5008
 Delta R.T. 0.196 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am
 Tgt Ion:240 Resp: 16515



#65
 Phenanthrene
 Concen: 205.54 ng/mL
 RT: 33.875 min Scan# 3942
 Delta R.T. -0.032 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am
 Tgt Ion:178 Resp: 60309
 Ion Ratio Lower Upper
 178 100
 179 15.2 12.0 18.0

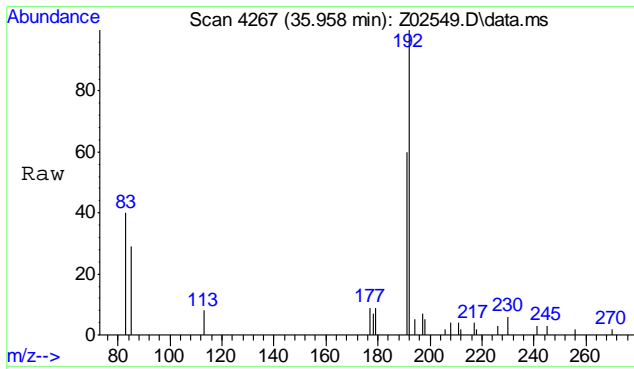
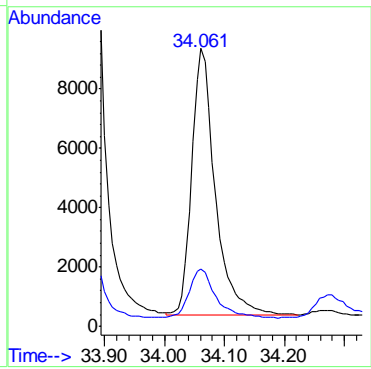
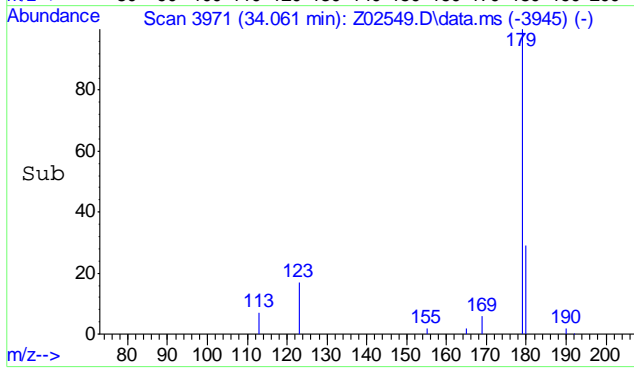


7.1.3
7



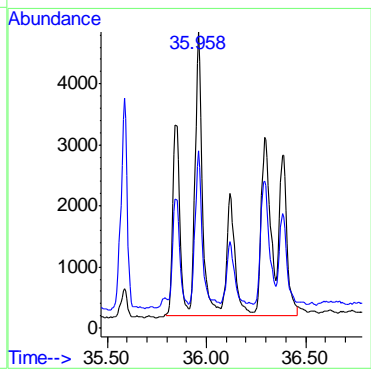
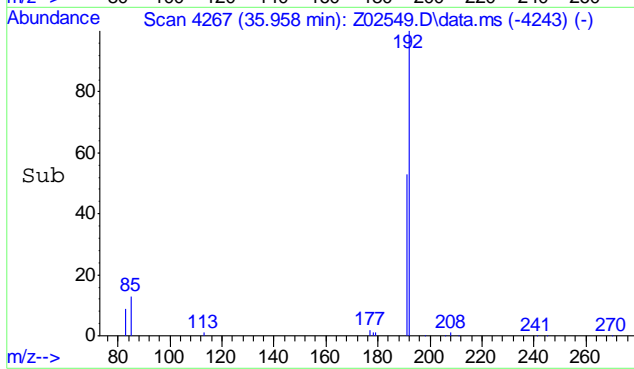
#66
 Anthracene
 Concen: 86.44 ng/mL
 RT: 34.061 min Scan# 3971
 Delta R.T. -0.032 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:178	Resp:	24335
178	100	
179	20.7	12.0 18.0#

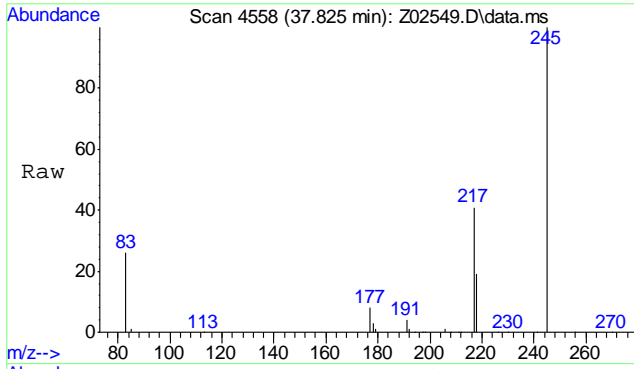


#67
 Cl-Phenanthrenes/anthracenes
 Concen: 141.87 ng/mL m
 RT: 35.958 min Scan# 4267
 Delta R.T. -0.302 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:192	Resp:	41626
192	100	
191	6.3	44.6 67.0#

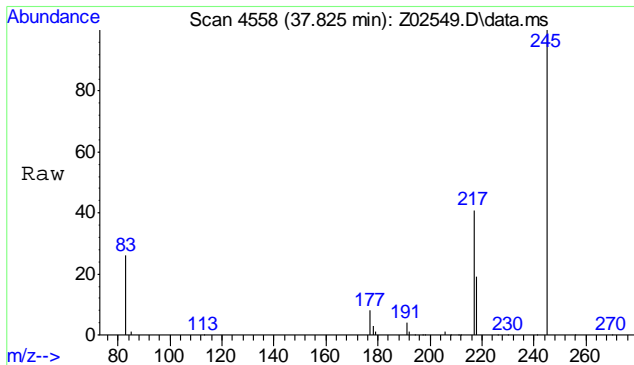
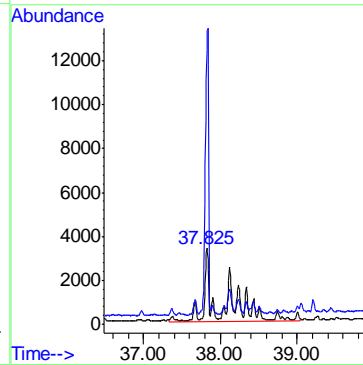
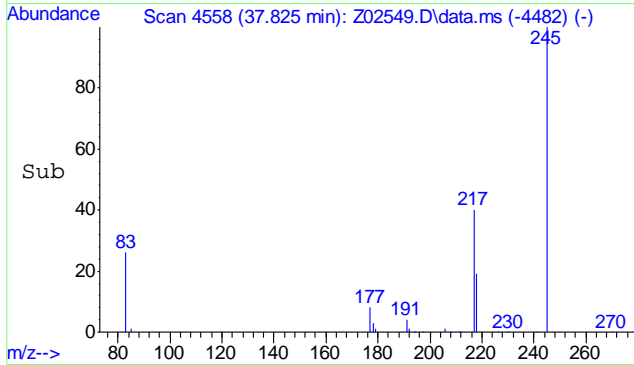


7.1.3
7



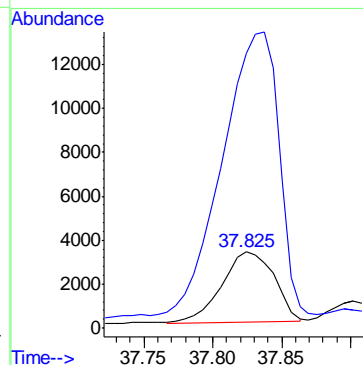
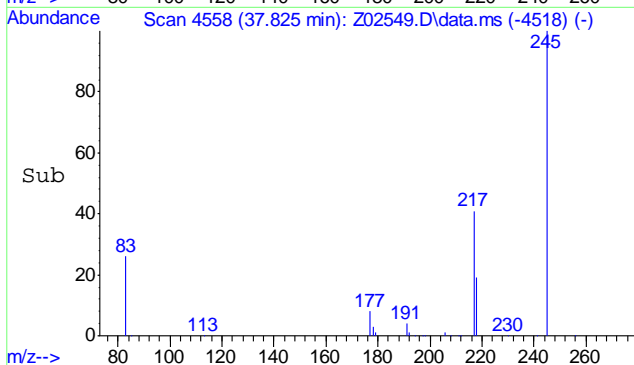
#68
 C2-Phenanthrenes/anthracenes (unadj)
 Concen: 155.13 ng/mL m
 RT: 37.825 min Scan# 4558
 Delta R.T. -0.250 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:206	Resp:	45517
Ion Ratio	Lower	Upper
206	100	
191	8.2	39.3 58.9#

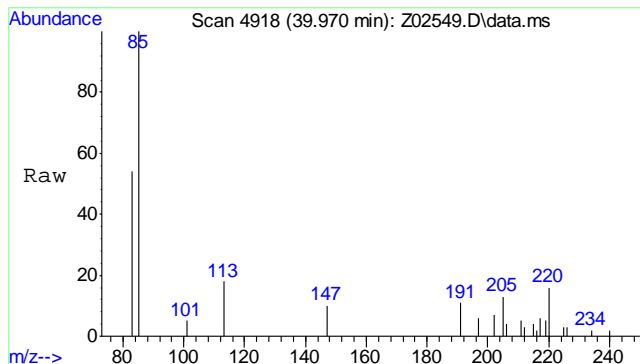


#69
 C2-Phenanthrenes/anthracenes (5aA)
 Concen: 28.70 ng/mL m
 RT: 37.825 min Scan# 4558
 Delta R.T. 0.056 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:206	Resp:	8422
Ion Ratio	Lower	Upper
206	100	
191	20.2	34.5 51.7#

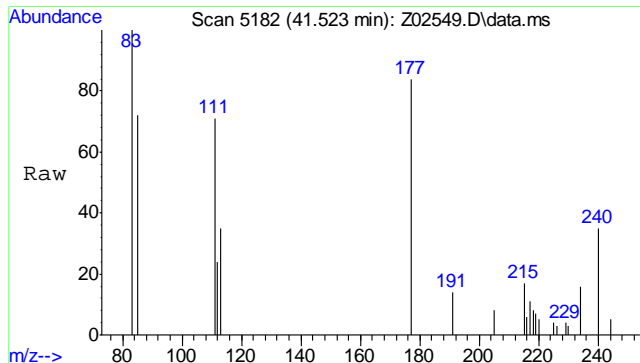
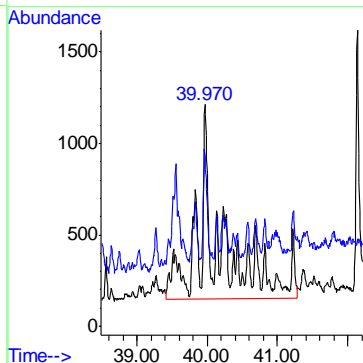
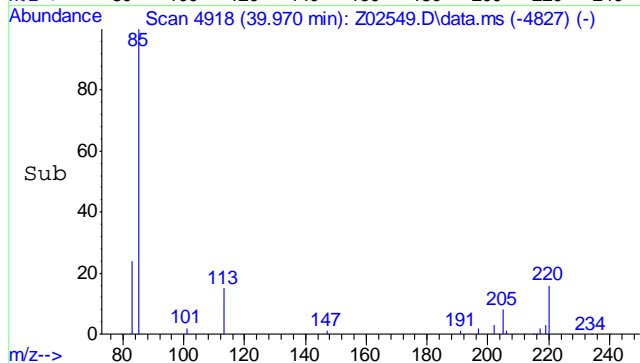


7.1.3
7



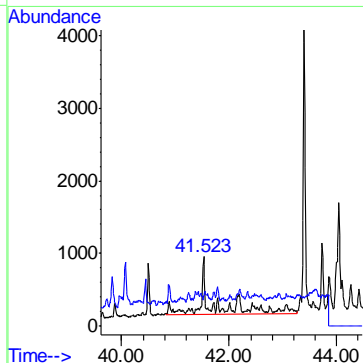
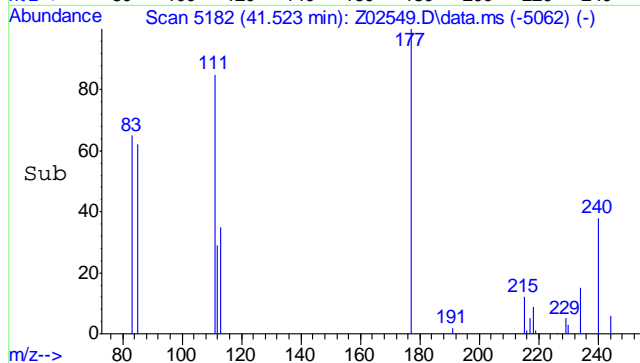
#70
 C3-Phenanthrenes/anthracenes
 Concen: 73.51 ng/mL m
 RT: 39.970 min Scan# 4918
 Delta R.T. 0.064 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Ratio	Lower	Upper
220	100		
205	6.5	38.8	58.2#

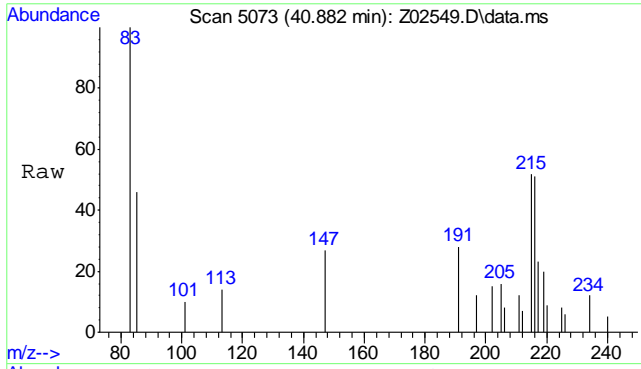


#71
 C4-Phenanthrenes/anthracenes
 Concen: 40.36 ng/mL m
 RT: 41.523 min Scan# 5182
 Delta R.T. -0.556 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Ratio	Lower	Upper
234	100		
219	0.0	44.2	66.4#

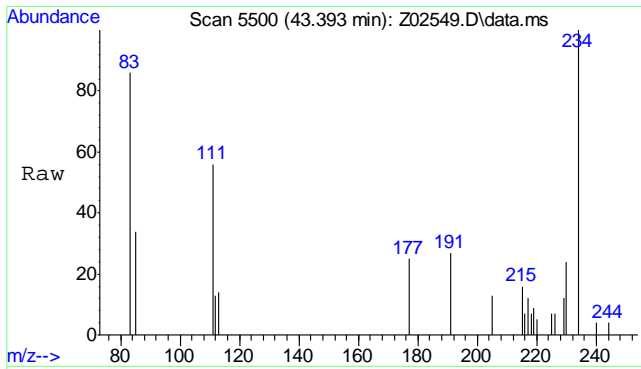
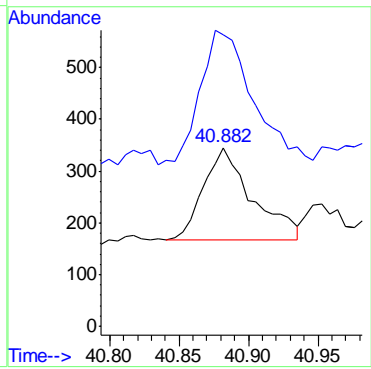
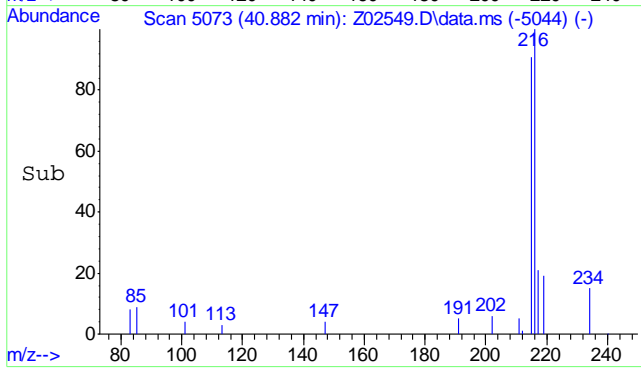


7.1.3
7



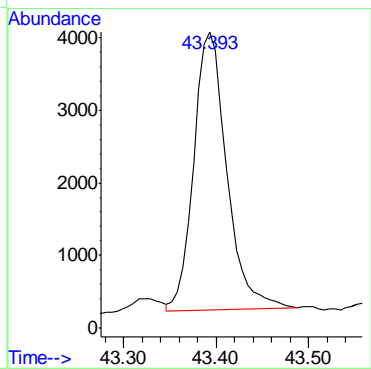
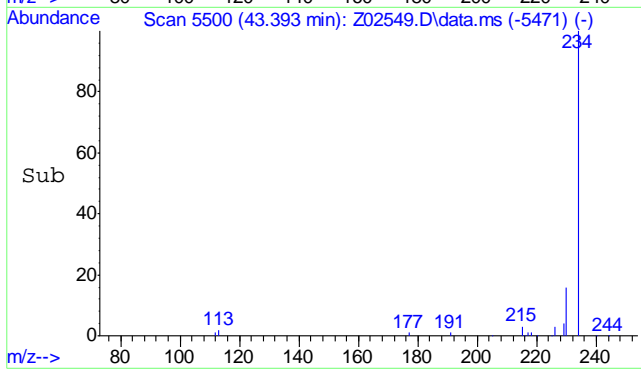
#72
 Retene
 Concen: 12.04 ng/mL
 RT: 40.882 min Scan# 5073
 Delta R.T. -0.029 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	234	Resp:	436
Ion Ratio	Lower	Upper	
	234	100	
	219	149.5	131.8 197.8

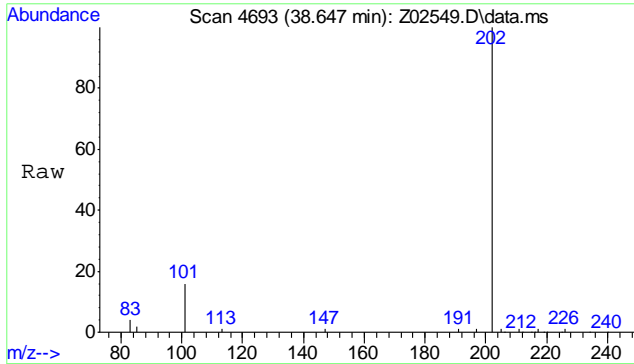


#73
 Benzo(b)naphtho(2,1-d)thiophene
 Concen: 35.30 ng/mL
 RT: 43.393 min Scan# 5500
 Delta R.T. -0.030 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	234	Resp:	9467
----------	-----	-------	------

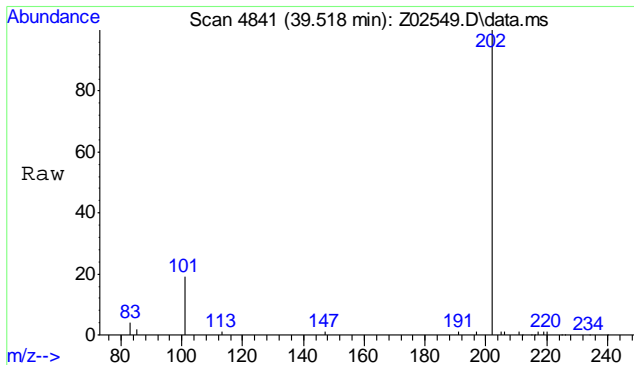
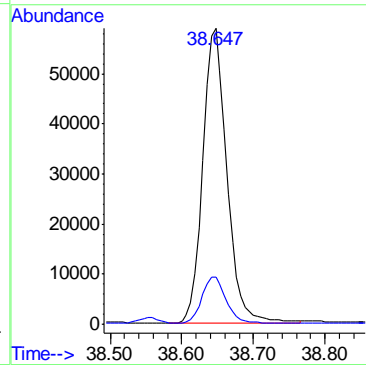
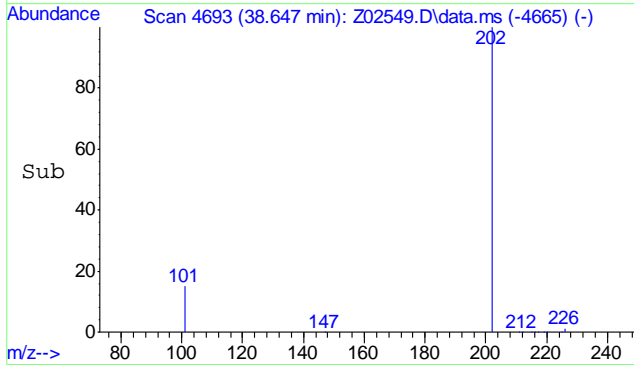


7.1.3
7



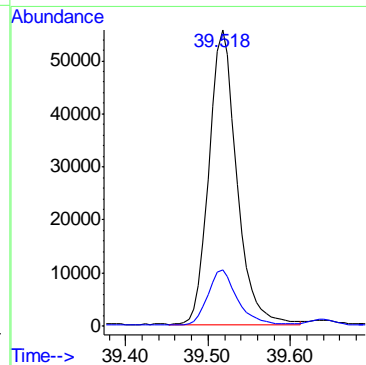
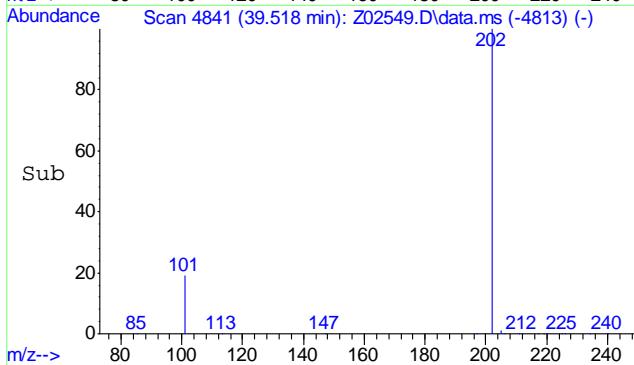
#78
 Fluoranthene
 Concen: 483.46 ng/mL
 RT: 38.647 min Scan# 4693
 Delta R.T. -0.036 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.7	12.6	19.0

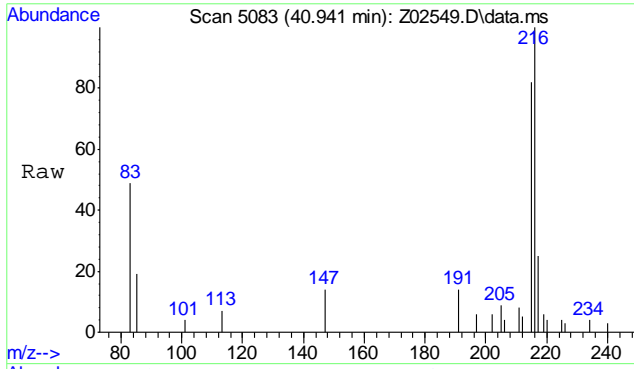


#79
 Pyrene
 Concen: 431.86 ng/mL
 RT: 39.518 min Scan# 4841
 Delta R.T. -0.035 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Ratio	Lower	Upper
202	100		
101	19.6	14.4	21.6

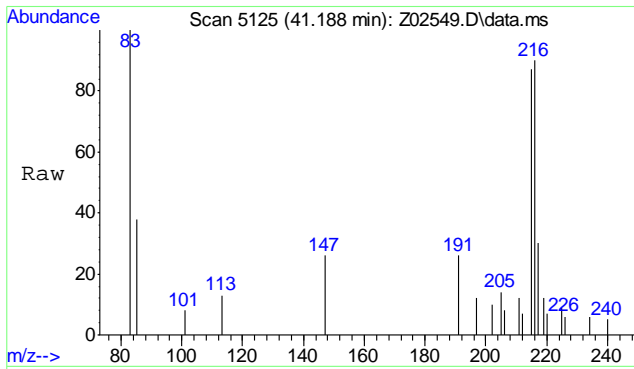
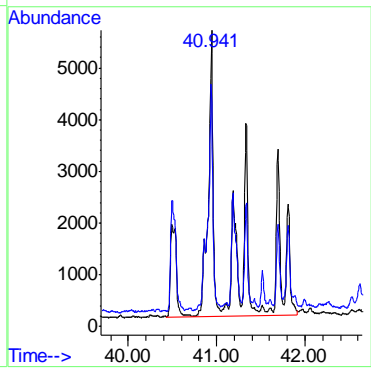
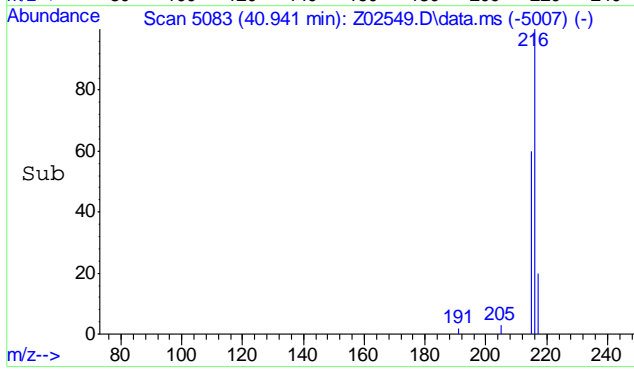


7.1.3
7



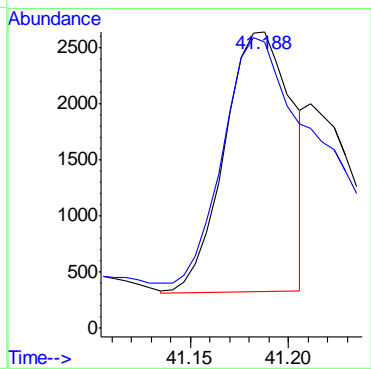
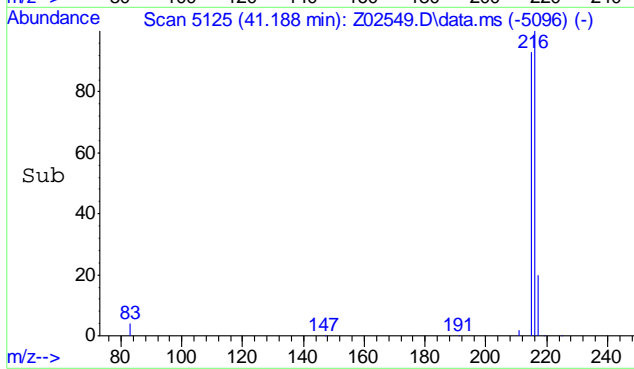
#80
 Cl-Fluoranthenes/pyrenes
 Concen: 218.96 ng/mL m
 RT: 40.941 min Scan# 5083
 Delta R.T. 0.071 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion: 216	Resp: 65716
Ion Ratio	Lower Upper
216	100
215	5.2 74.1 111.1#

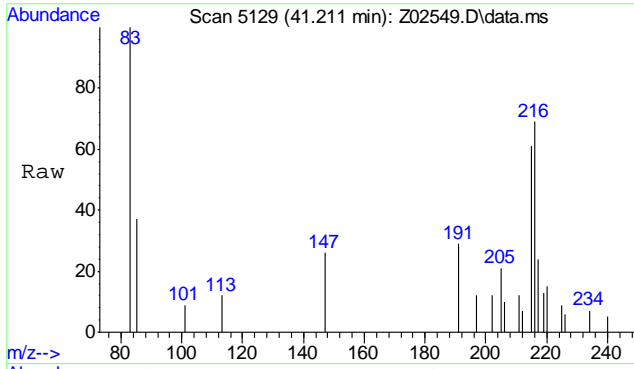


#81
 Benzo(b)fluorene
 Concen: 18.38 ng/mL m
 RT: 41.188 min Scan# 5125
 Delta R.T. -0.032 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion: 216	Resp: 5515
Ion Ratio	Lower Upper
216	100
215	139.7 106.0 159.0

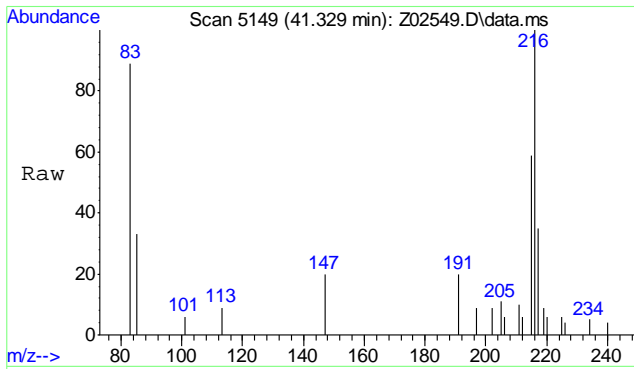
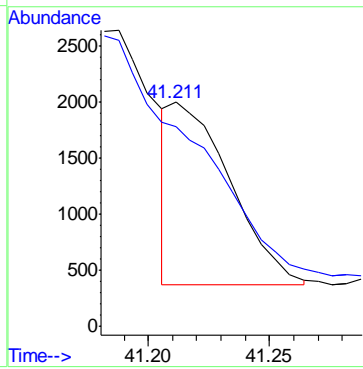
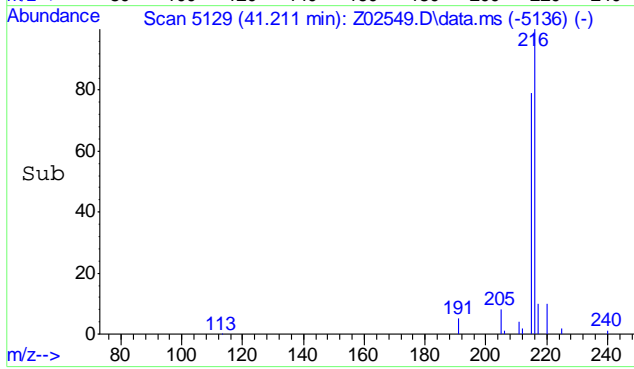


7.1.3
7



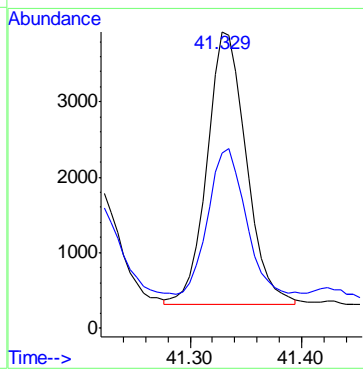
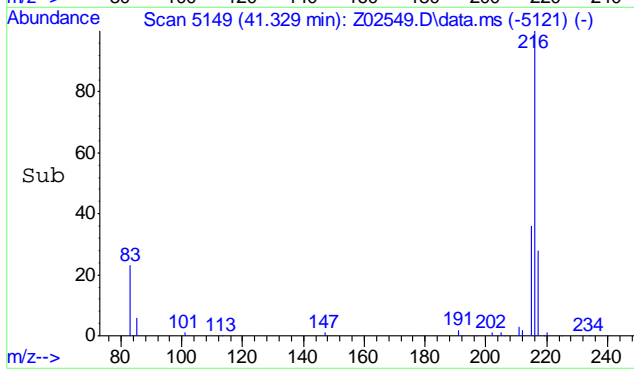
#82
 Benzo(c)fluorene
 Concen: 9.36 ng/mL m
 RT: 41.211 min Scan# 5129
 Delta R.T. -0.043 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	216	Resp:	2809
Ion Ratio	Lower	Upper	
216	100		
215	158.7	121.4	182.2

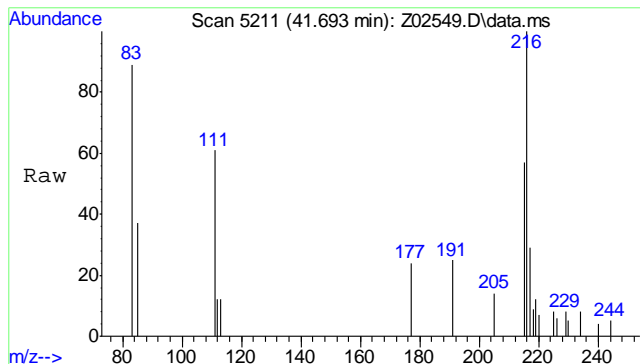


#83
 2-Methylpyrene
 Concen: 29.42 ng/mL m
 RT: 41.329 min Scan# 5149
 Delta R.T. -0.037 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	216	Resp:	8831
Ion Ratio	Lower	Upper	
216	100		
215	83.1	83.1	124.7#

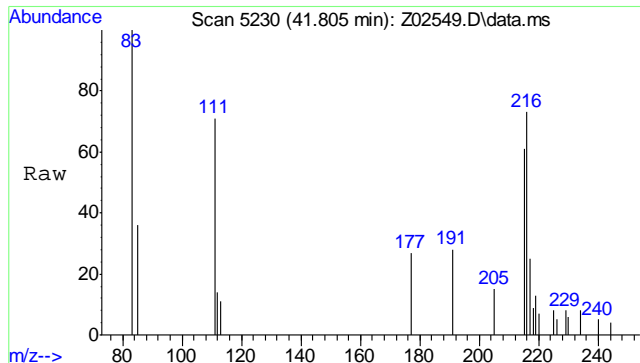
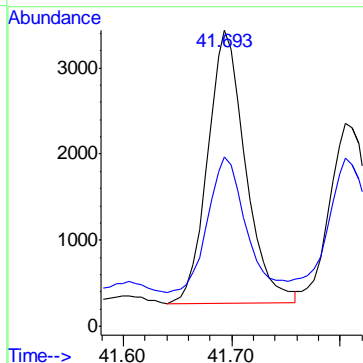
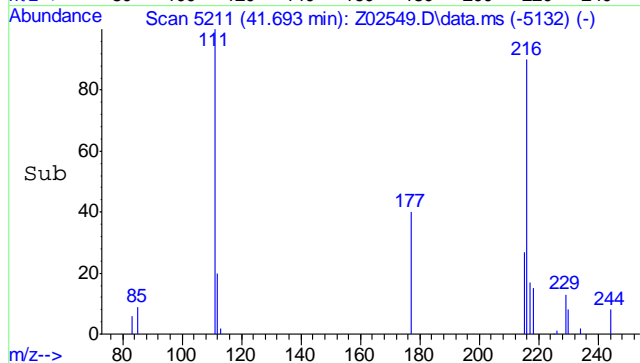


7.1.3
7



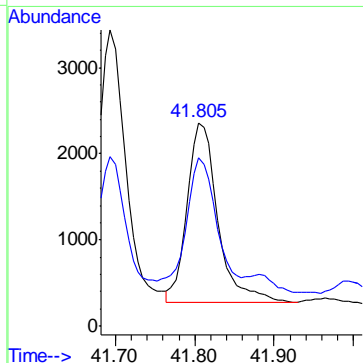
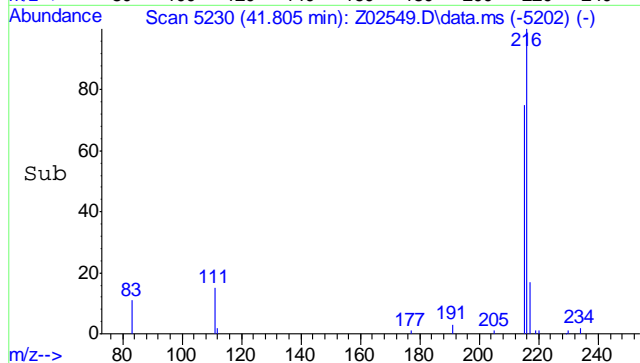
#84
 4-Methylpyrene
 Concen: 25.56 ng/mL m
 RT: 41.693 min Scan# 5211
 Delta R.T. -0.037 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	216	Resp:	7671
Ion Ratio	Lower	Upper	
216	100		
215	44.0	58.0	87.0#

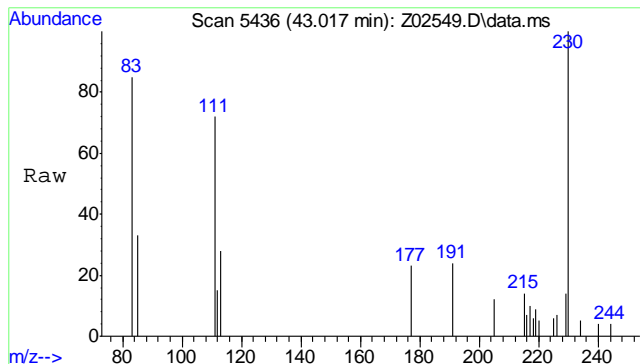


#85
 1-Methylpyrene
 Concen: 18.78 ng/mL
 RT: 41.805 min Scan# 5230
 Delta R.T. -0.037 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	216	Resp:	5635
Ion Ratio	Lower	Upper	
216	100		
215	62.9	78.2	117.4#

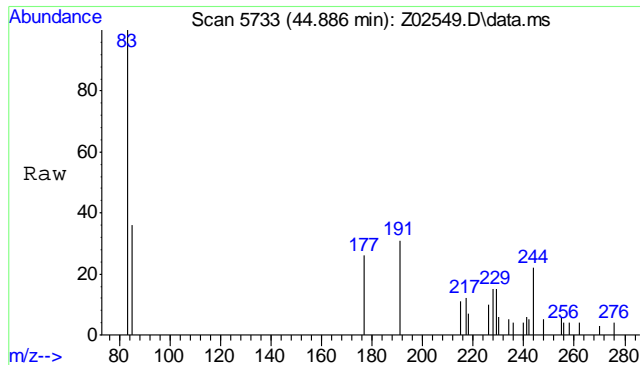
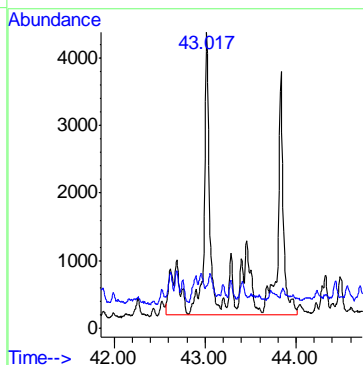
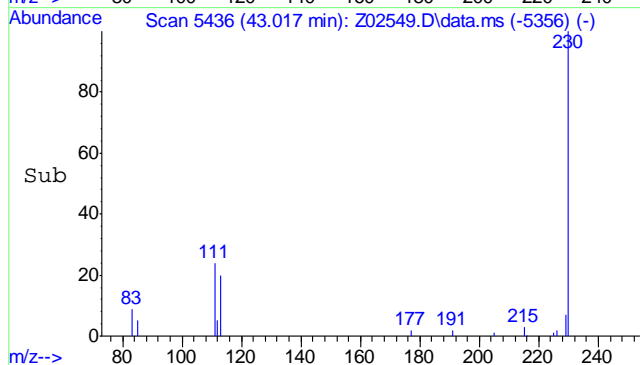


7.1.3
7



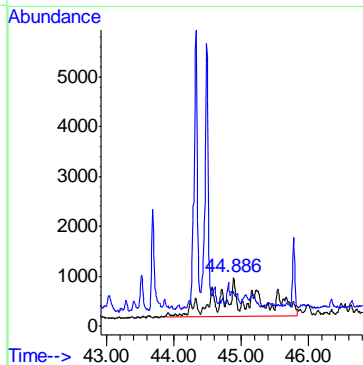
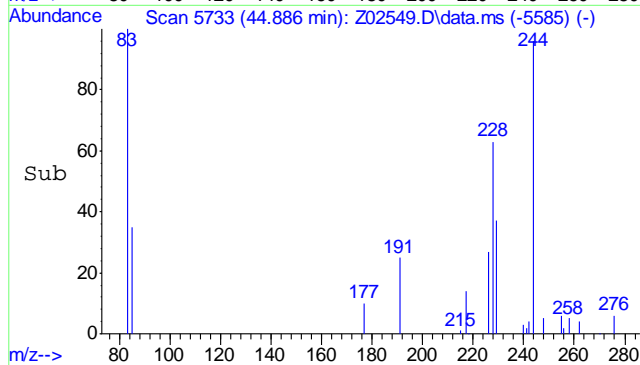
#86
 C2-Fluoranthenes/pyrenes
 Concen: 162.90 ng/mL m
 RT: 43.017 min Scan# 5436
 Delta R.T. 0.348 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
230	100		
215	1.9	99.6	149.4#

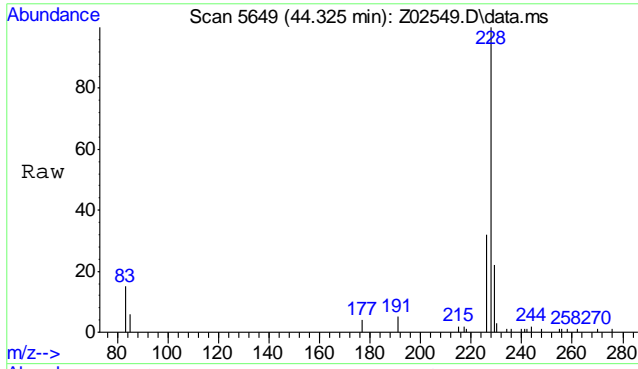


#87
 C3-Fluoranthenes/pyrenes
 Concen: 90.32 ng/mL m
 RT: 44.886 min Scan# 5733
 Delta R.T. 0.208 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
244	100		
229	2.8	74.2	111.4#

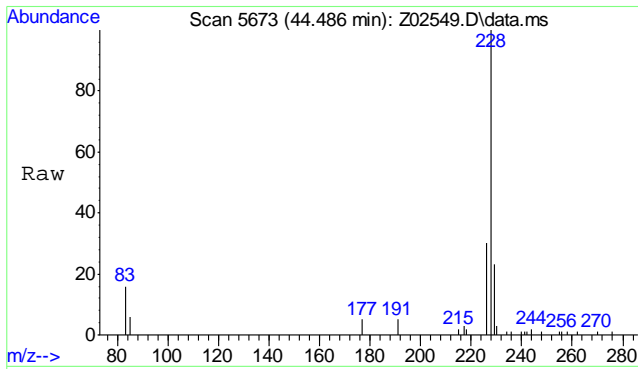
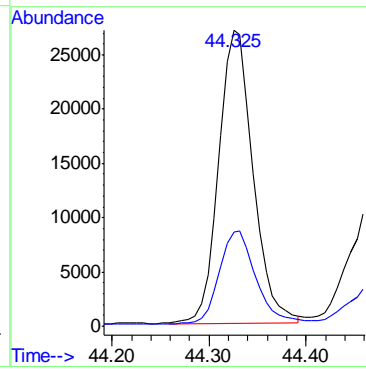
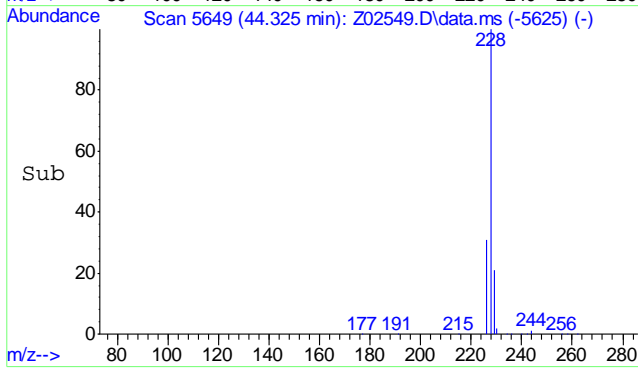


7.1.3
7



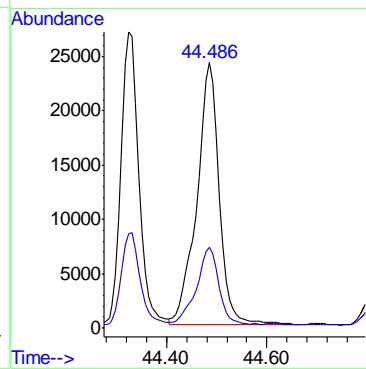
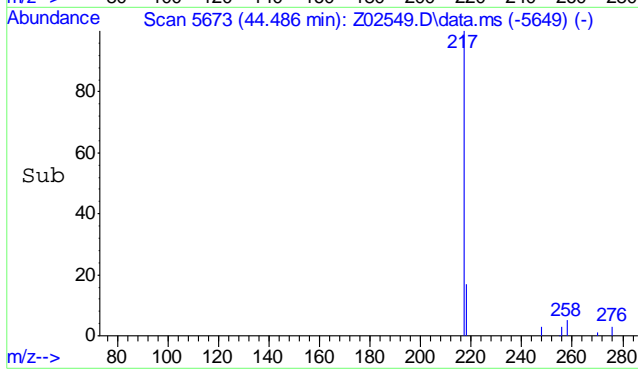
#88
 Benz(a)anthracene
 Concen: 266.04 ng/mL m
 RT: 44.325 min Scan# 5649
 Delta R.T. -0.041 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:228	Resp:	66723
Ion Ratio	Lower	Upper
228	100	
226	0.0	21.1 31.7#

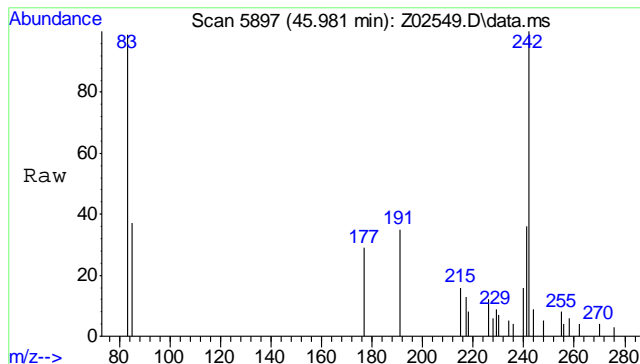


#89
 Chrysene
 Concen: 282.78 ng/mL
 RT: 44.486 min Scan# 5673
 Delta R.T. -0.040 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:228	Resp:	74028
Ion Ratio	Lower	Upper
228	100	
226	29.4	23.2 34.8

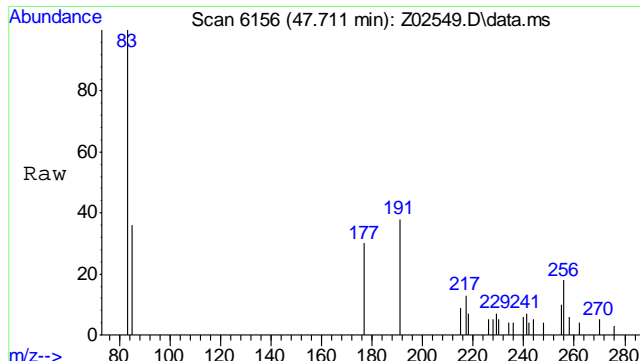
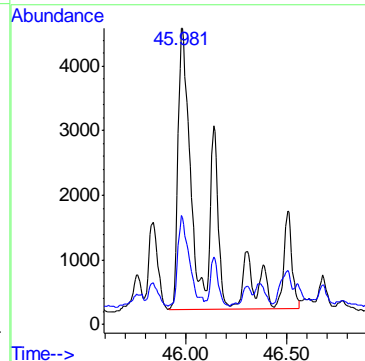
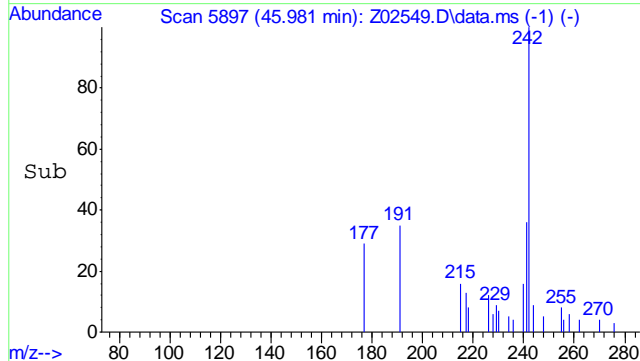


7.1.3
7



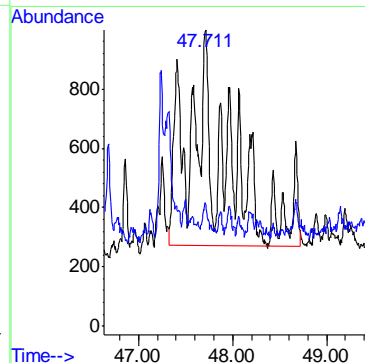
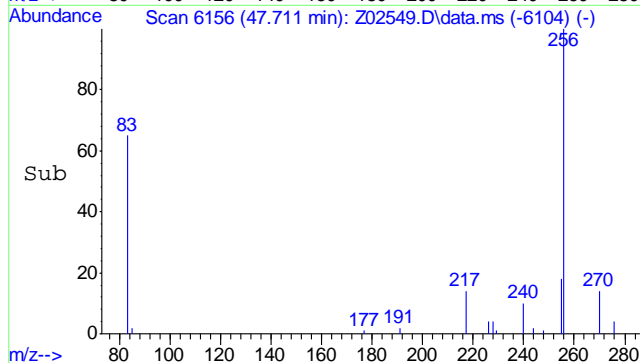
#90
 C1-Benz(a)anthracenes/chrysenes
 Concen: 130.59 ng/mL m
 RT: 45.981 min Scan# 5897
 Delta R.T. 0.116 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	242	Resp:	34188
Ion Ratio	Lower	Upper	
242	100		
241	5.2	33.9	50.9#

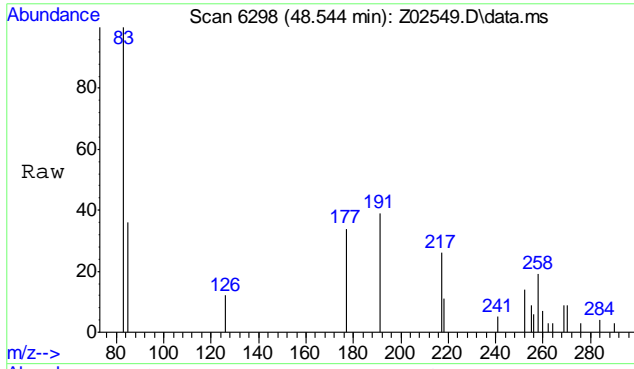


#91
 C2-Benz(a)anthracenes/chrysenes
 Concen: 72.80 ng/mL m
 RT: 47.711 min Scan# 6156
 Delta R.T. -0.228 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	256	Resp:	19058
Ion Ratio	Lower	Upper	
256	100		
241	0.0	22.8	34.2#

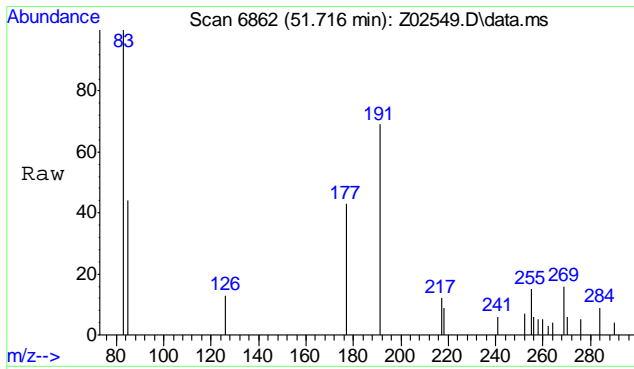
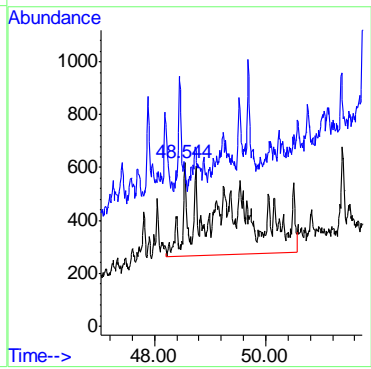
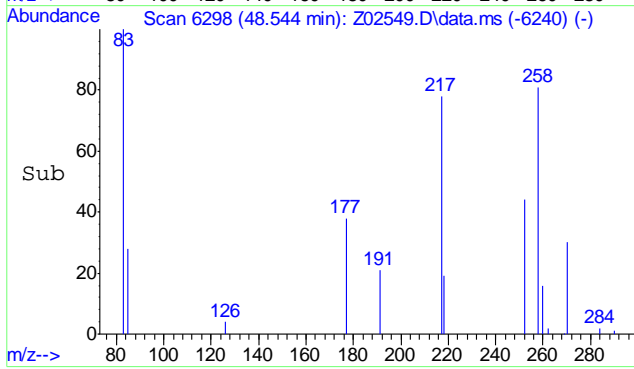


7.1.3
7



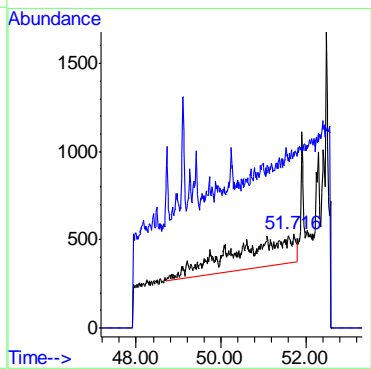
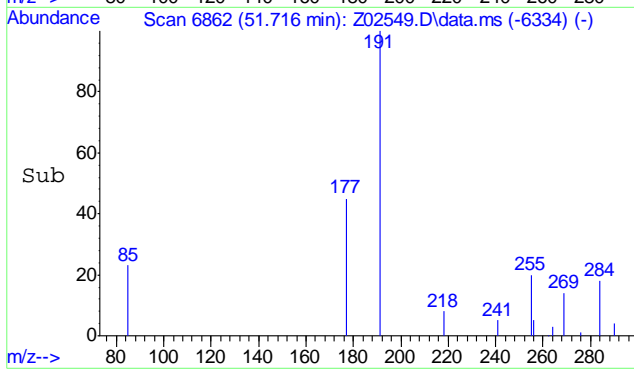
#92
 C3-Benz(a)anthracenes/chrysenes
 Concen: 66.74 ng/mL m
 RT: 48.544 min Scan# 6298
 Delta R.T. -1.808 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:270	Resp:	17472
Ion Ratio	Lower	Upper
270	100	
255	0.0	34.9 52.3#

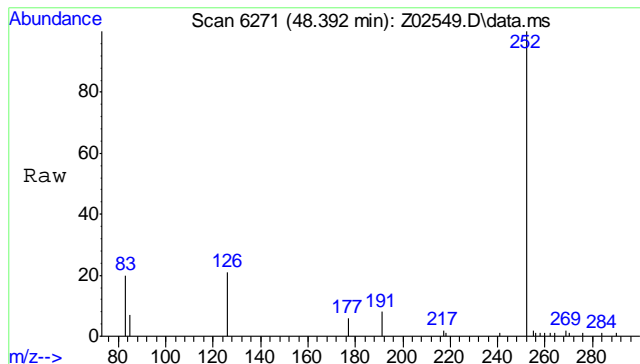


#93
 C4-Benz(a)anthracenes/chrysenes
 Concen: 62.25 ng/mL m
 RT: 51.716 min Scan# 6862
 Delta R.T. 1.269 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:284	Resp:	16297
Ion Ratio	Lower	Upper
284	100	
269	0.0	61.8 92.6#

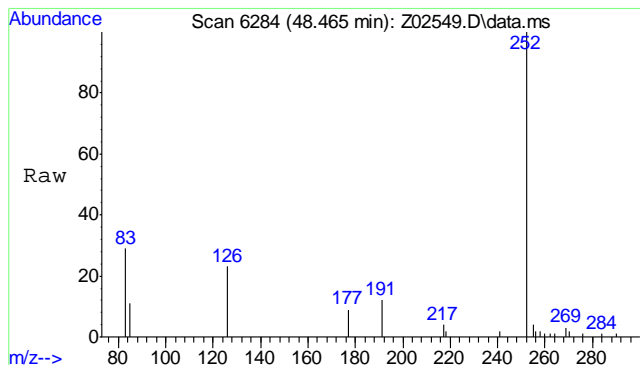
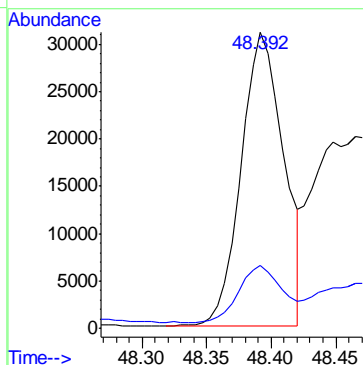
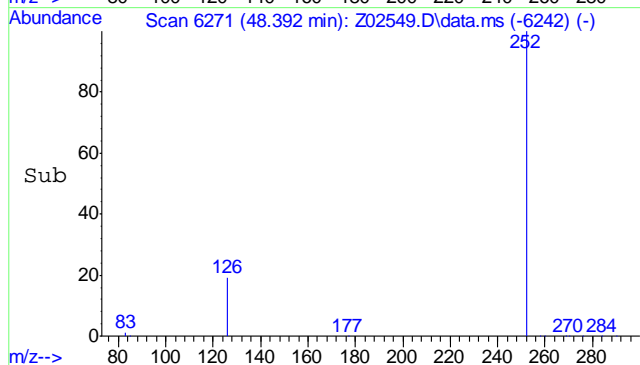


7.1.3
7



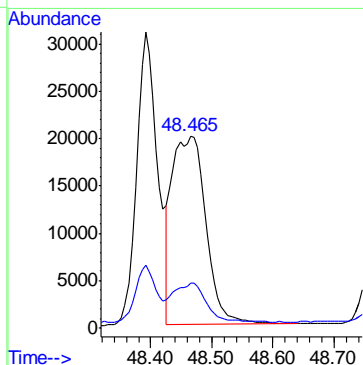
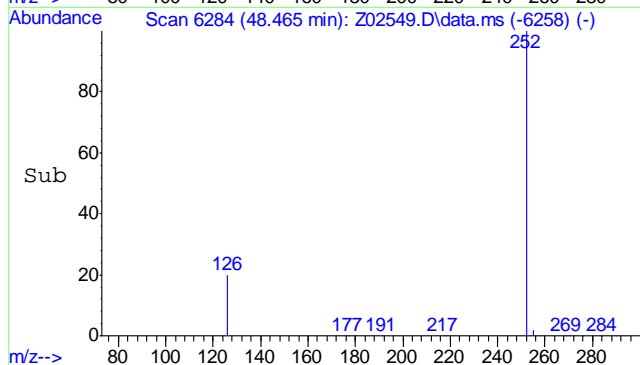
#94
 Benzo(b)fluoranthene
 Concen: 257.02 ng/mL
 RT: 48.392 min Scan# 6271
 Delta R.T. -0.039 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:252 Resp: 70768
 Ion Ratio Lower Upper
 252 100
 126 19.9 15.7 23.5

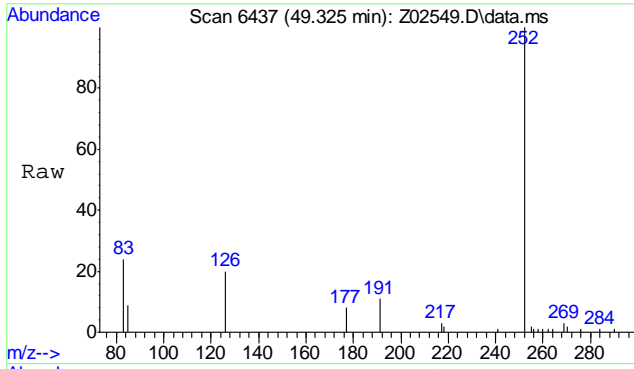


#95
 Benzo(k)fluoranthene
 Concen: 242.73 ng/mL
 RT: 48.465 min Scan# 6284
 Delta R.T. -0.056 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:252 Resp: 76180
 Ion Ratio Lower Upper
 252 100
 126 19.6 15.9 23.9

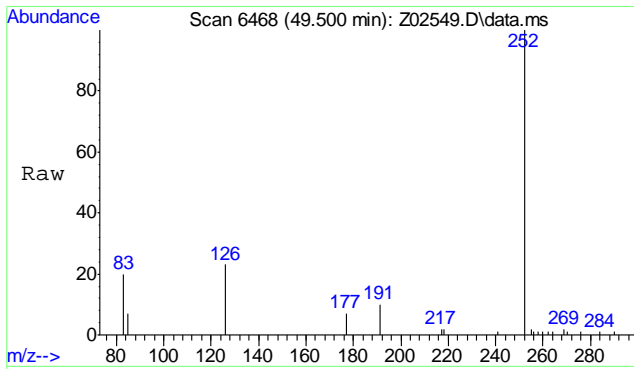
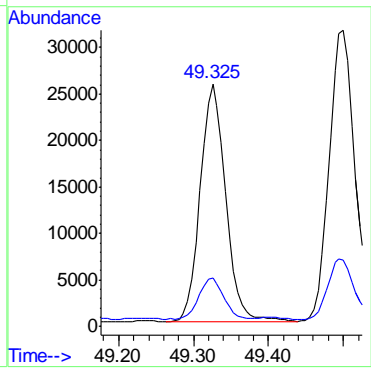
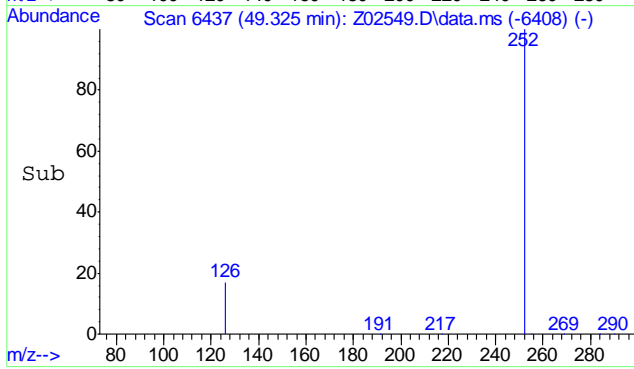


7.1.3
7



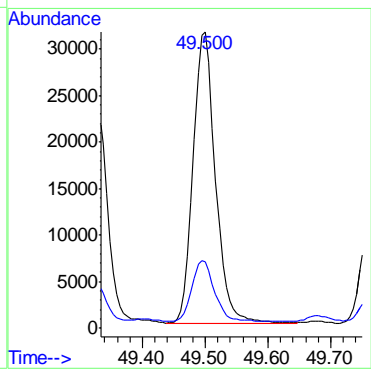
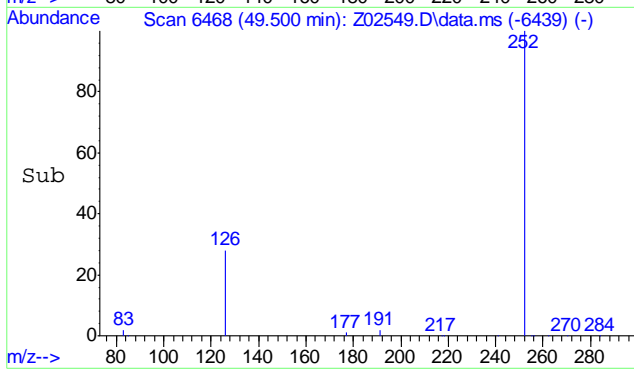
#96
 Benzo(e)pyrene
 Concen: 218.82 ng/mL
 RT: 49.325 min Scan# 6437
 Delta R.T. -0.040 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	252	Resp:	60827
Ion Ratio	Lower	Upper	
252	100		
126	16.6	13.5	20.3

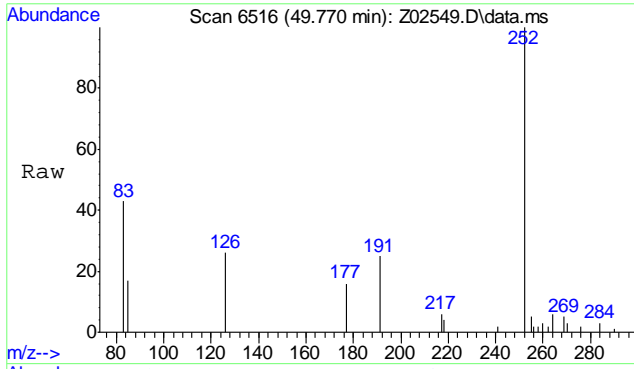


#97
 Benzo(a)pyrene
 Concen: 308.08 ng/mL
 RT: 49.500 min Scan# 6468
 Delta R.T. -0.039 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	252	Resp:	76793
Ion Ratio	Lower	Upper	
252	100		
126	21.1	16.6	24.8

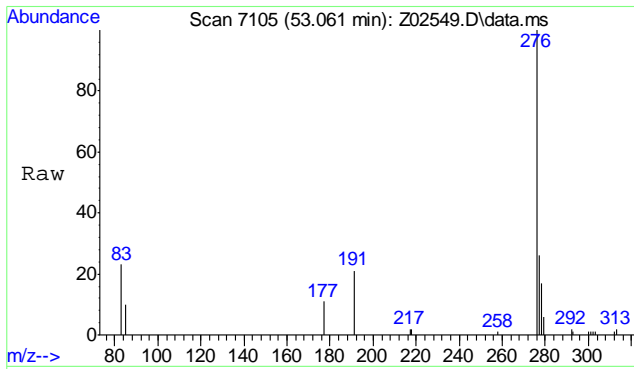
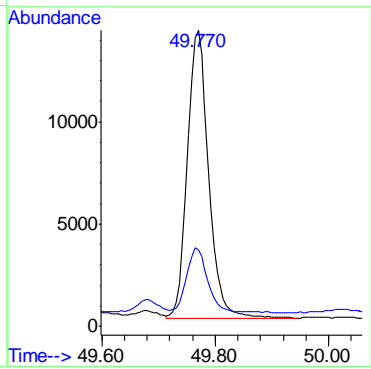
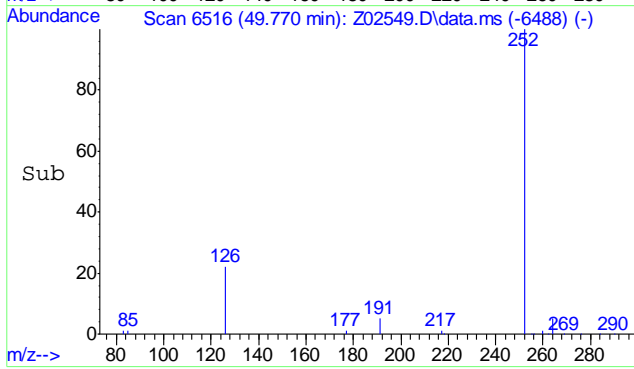


7.1.3
7



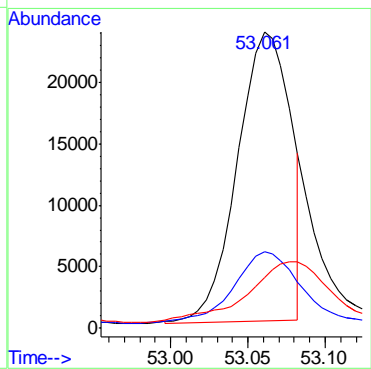
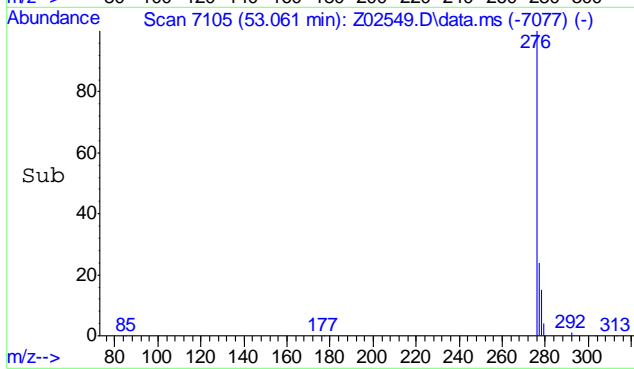
#98
 Perylene
 Concen: 147.87 ng/mL
 RT: 49.770 min Scan# 6516
 Delta R.T. -0.045 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	252	Resp:	36470
Ion Ratio	Lower	Upper	
252	100		
126	21.7	17.3	25.9

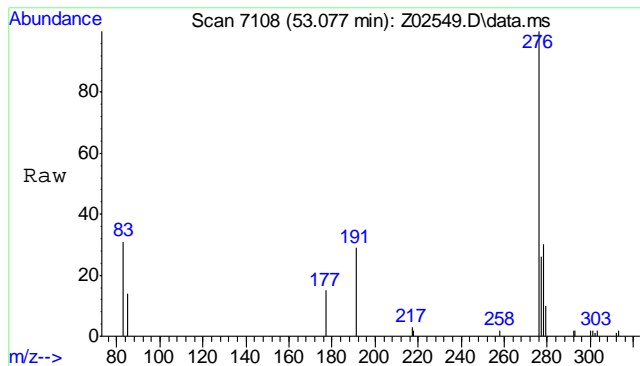


#99
 Indeno(1,2,3-cd)pyrene
 Concen: 176.88 ng/mL m
 RT: 53.061 min Scan# 7105
 Delta R.T. -0.048 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	276	Resp:	56418
Ion Ratio	Lower	Upper	
276	100		
277	32.0	19.0	28.6#
278	32.9	27.8	41.8

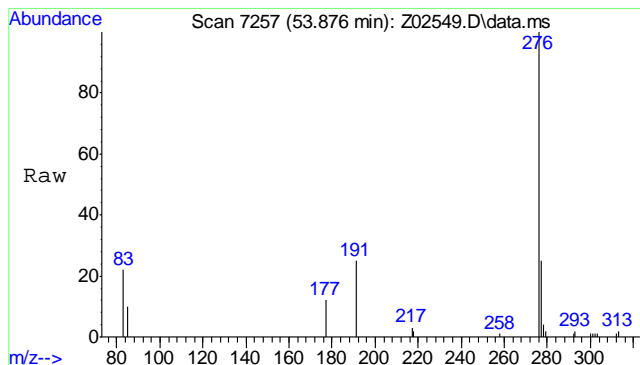
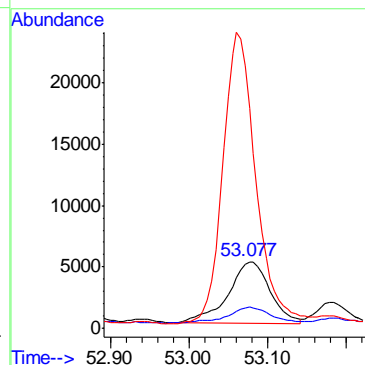
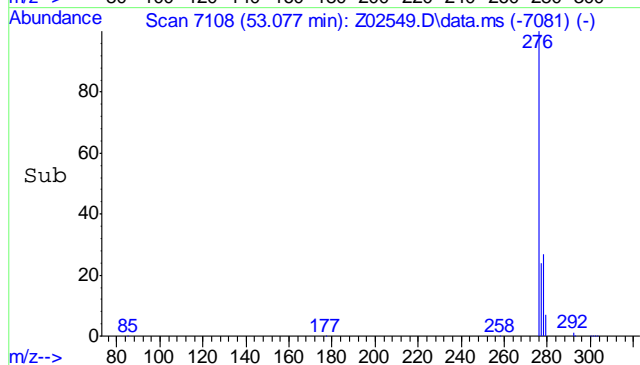


7.1.3
7



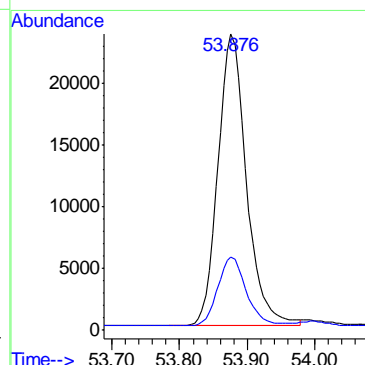
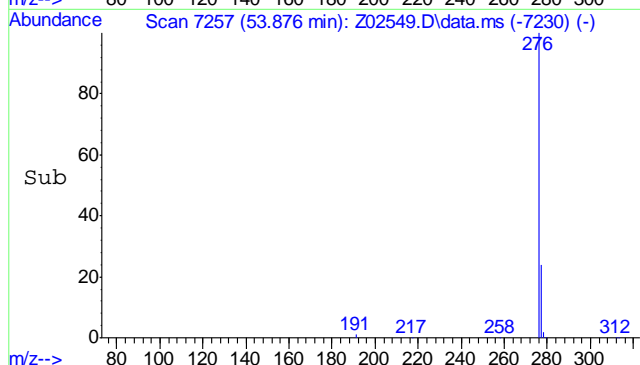
#100
 Dibenz(a,h)anthracene
 Concen: 66.09 ng/mL
 RT: 53.077 min Scan# 7108
 Delta R.T. -0.053 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
278	100		
279	26.9	18.6	28.0
276	372.7	57.7	86.5#

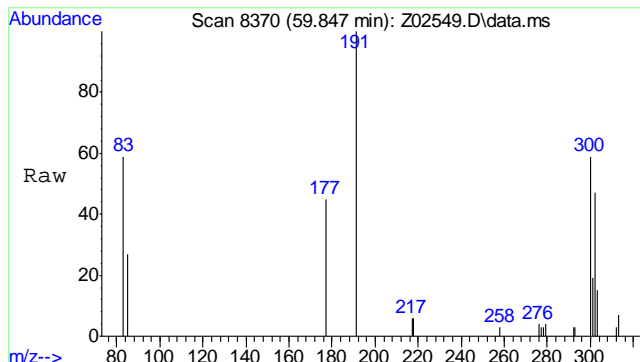


#101
 Benzo(g,h,i)perylene
 Concen: 216.07 ng/mL
 RT: 53.876 min Scan# 7257
 Delta R.T. -0.053 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
276	100		
277	23.9	18.6	28.0

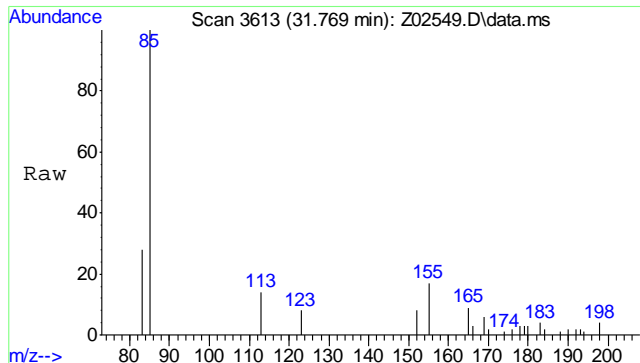
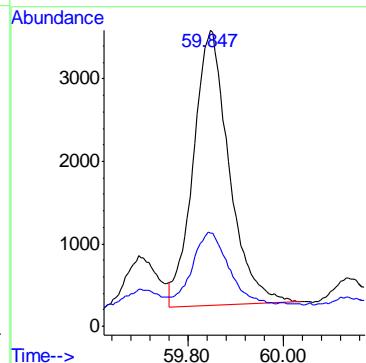
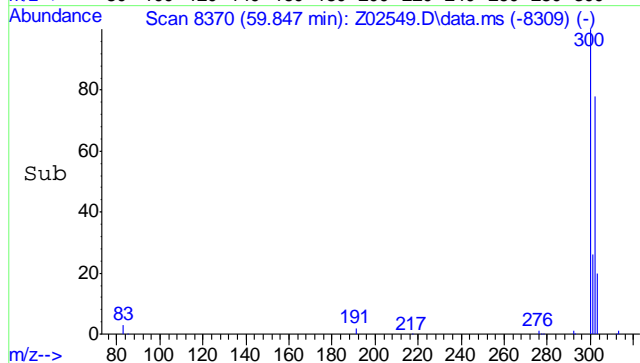


7.1.3
7



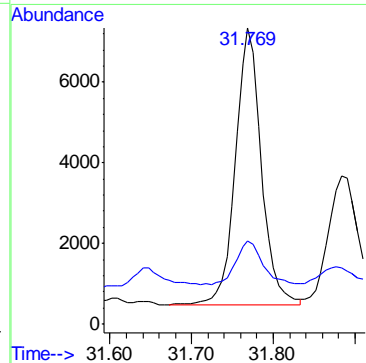
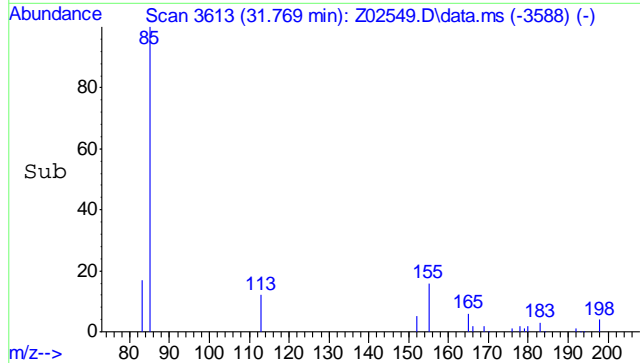
#102
 Coronene
 Concen: 56.53 ng/mL
 RT: 59.847 min Scan# 8370
 Delta R.T. -0.075 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
300	17395	100	
301	26.8	20.6	31.0

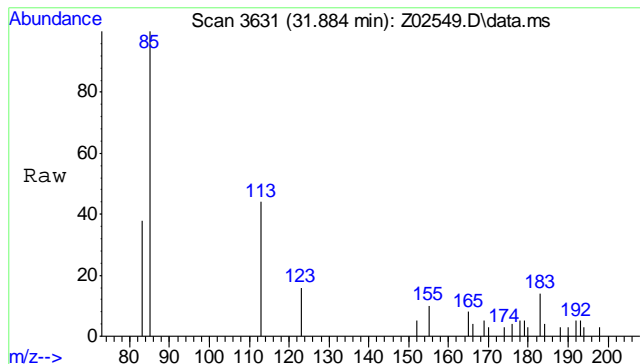


#103
 C-17
 Concen: 285.52 ng/mL
 RT: 31.769 min Scan# 3613
 Delta R.T. -0.038 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
85	15044	100	
83	17.4	11.8	17.8

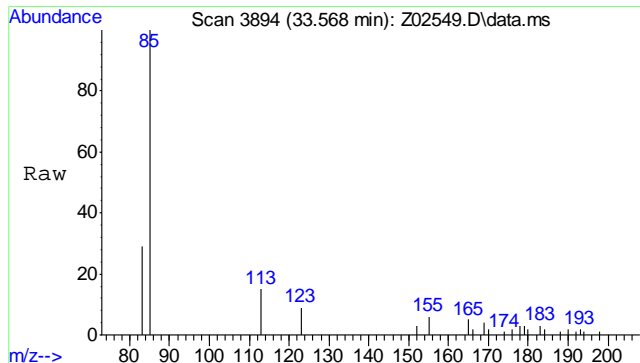
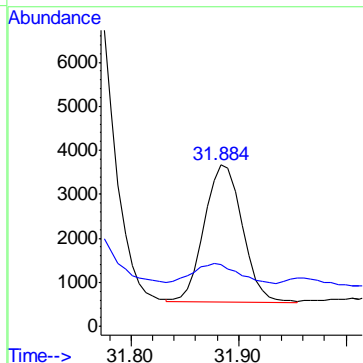
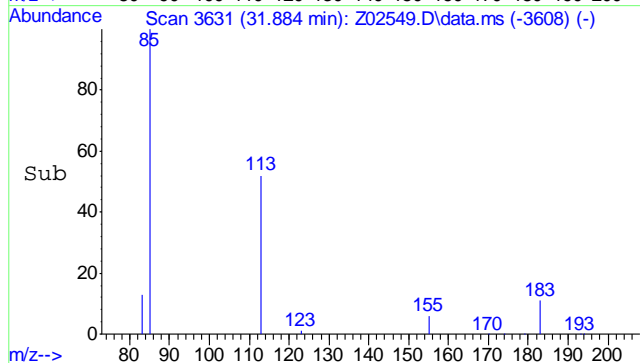


7.1.3
7



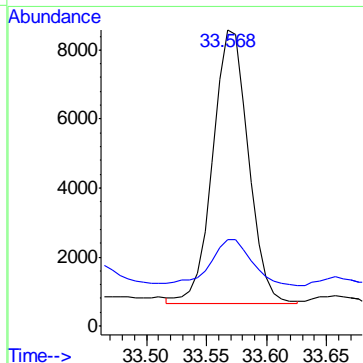
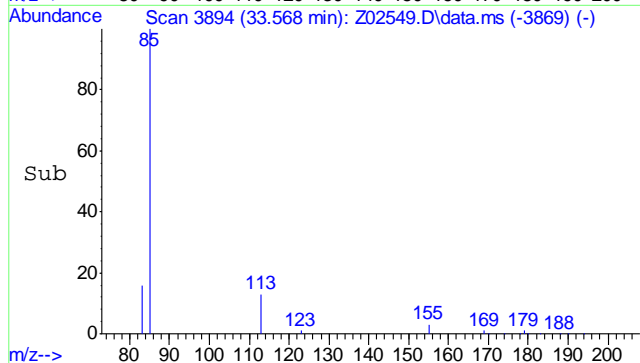
#104
 Pristane
 Concen: 195.81 ng/mL
 RT: 31.884 min Scan# 3631
 Delta R.T. -0.051 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
85	100		
83	19.3	10.5	15.7#

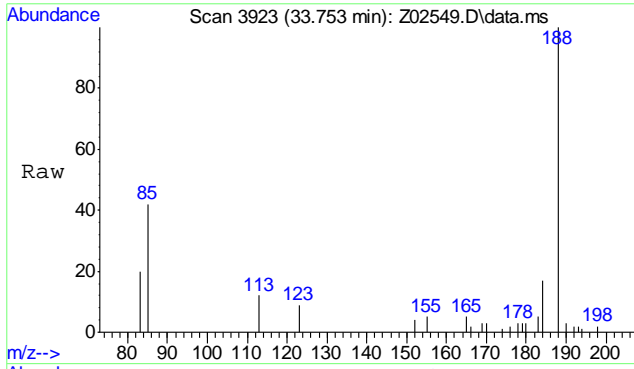


#105
 C-18
 Concen: 309.58 ng/mL
 RT: 33.568 min Scan# 3894
 Delta R.T. -0.038 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion	Resp	Lower	Upper
85	100		
83	19.1	13.0	19.4

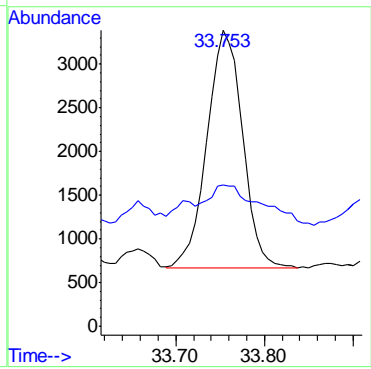
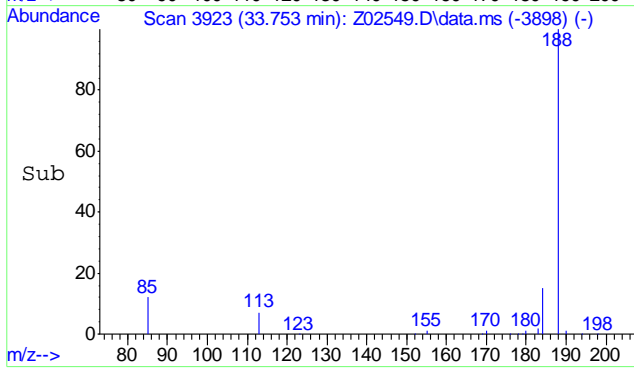


7.1.3
7



#106
 Phytane
 Concen: 147.42 ng/mL
 RT: 33.753 min Scan# 3923
 Delta R.T. -0.039 min
 Lab File: Z02549.D
 Acq: 6 Jun 2014 11:26 am

Tgt Ion:	85	83	Resp:	7660
Ion Ratio	100	23.7	Lower	Upper
			10.1	15.1#



7.1.3
7

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02557.D

Sample : mc30898-4

Misc : op38385,msz101,35,,,2,1

ALS Vial : 14 Sample Multiplier: 1

Acq On : 6 Jun 2014 9:51 pm

Operator: sofyaz

Quant Time: Jun 10 10:31:12 2014

Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M

Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM

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

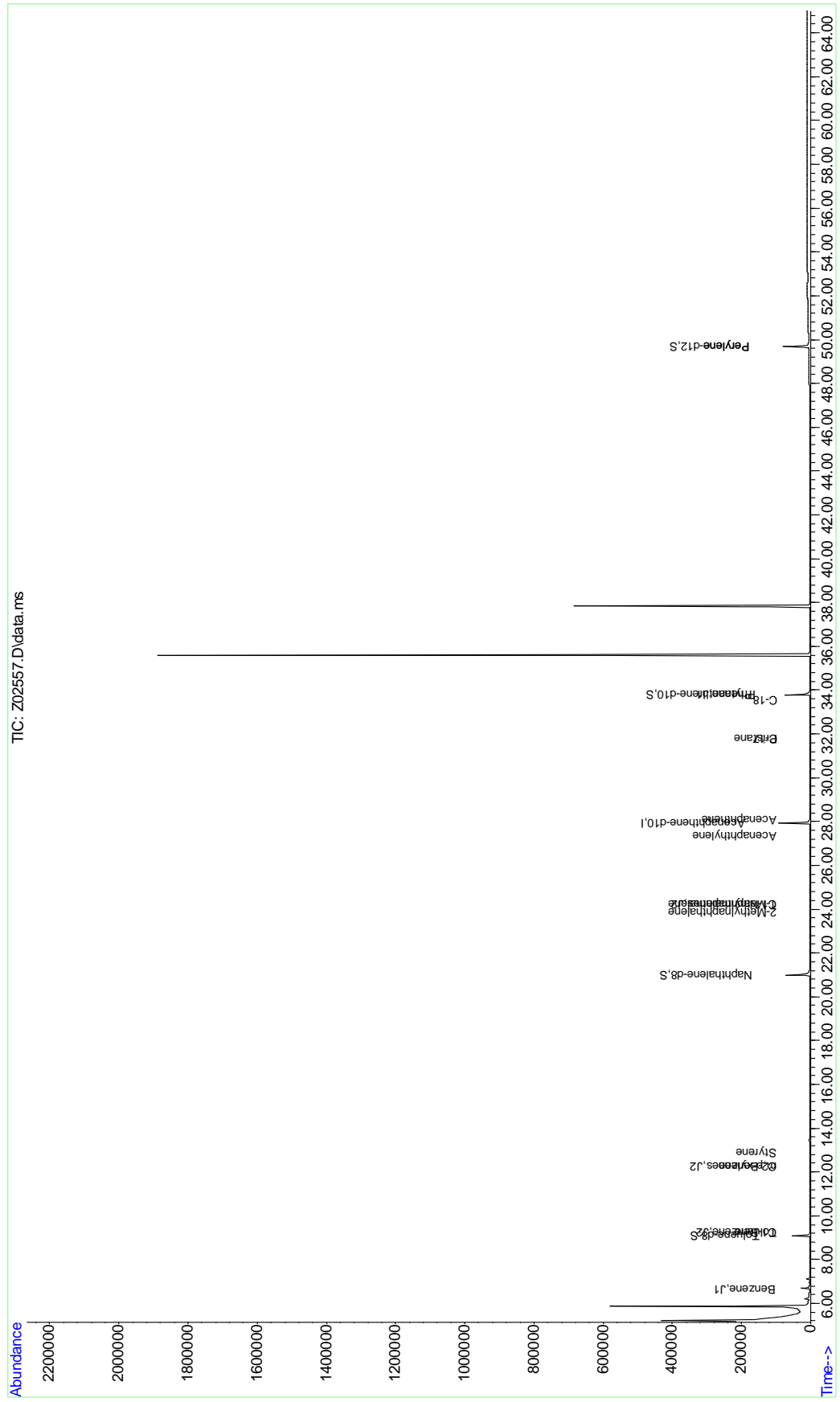
Internal Standards						
1) Acenaphthene-d10	27.929	164	110861	1000.00	ng/mL	-0.02
System Monitoring Compounds						
2) Toluene-d8	9.092	98	126217	1064.34	ng/mL	0.00
Spiked Amount	1000.000		Recovery	=	106.43%	
3) Naphthalene-d8	20.992	136	194443	926.84	ng/mL	0.00
Spiked Amount	1000.000		Recovery	=	92.68%	
4) Phenanthrene-d10	33.785	188	182435	1005.17	ng/mL	-0.03
Spiked Amount	1000.000		Recovery	=	100.52%	
5) Perylene-d12	49.686	264	155311	974.13	ng/mL	-0.05
Spiked Amount	1000.000		Recovery	=	97.41%	
Target Compounds						
						Qvalue
7) Benzene	6.657	78	1449m	8.86	ng/mL	
8) C1-Benzene	9.214	92	608	3.72	ng/mL	96
9) C2-Benzenes	12.225	106	1359m	8.31	ng/mL	
14) Toluene	9.214	91	997	5.62	ng/mL	97
16) m,p-xylene	12.225	91	1046	7.48	ng/mL	97
17) Styrene	12.881	104	1910	18.60	ng/mL	97
45) 2-Methylnaphthalene	23.838	142	355	2.28	ng/mL	84
46) 1-Methylnaphthalene	24.209	142	429	2.55	ng/mL	91
47) C1-Naphthalenes	24.209	142	890m	3.56	ng/mL	
52) Acenaphthylene	27.343	152	848	3.51	ng/mL#	67
53) Acenaphthene	28.058	154	1003	6.63	ng/mL	96
98) Perylene	49.686	252	689	3.23	ng/mL#	1
103) C-17	31.762	85	486	10.67	ng/mL#	64
104) Pristane	31.762	85	441	12.95	ng/mL#	67
105) C-18	33.561	85	368	8.13	ng/mL#	62
106) Phytane	33.779	85	271	6.04	ng/mL#	68

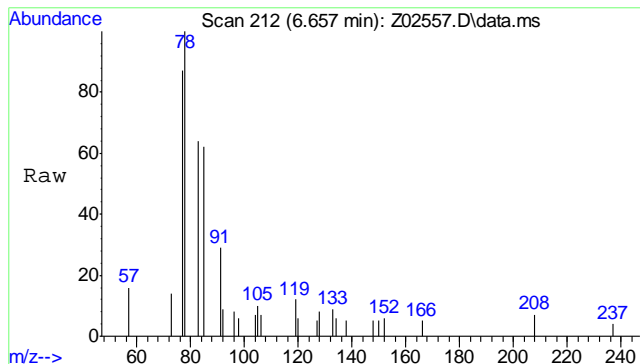
(#)= qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02557.D
 Sample : mc30898-4
 Misc : op38385,msz101,35,,2,1
 ALS Vial : 14 Sample Multiplier: 1
 Acq On : 6 Jun 2014 9:51 pm Operator: sofyaz

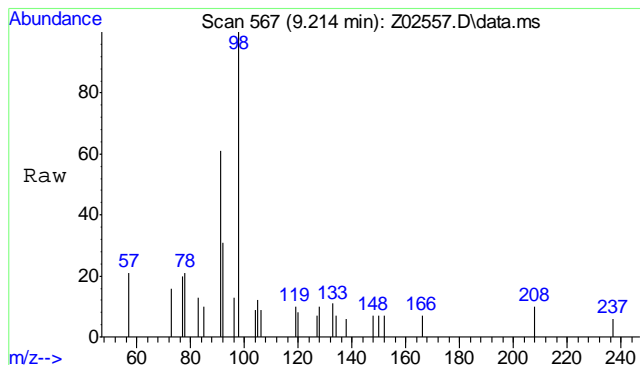
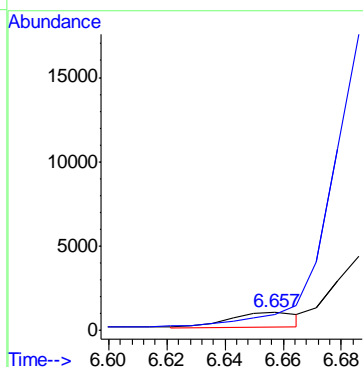
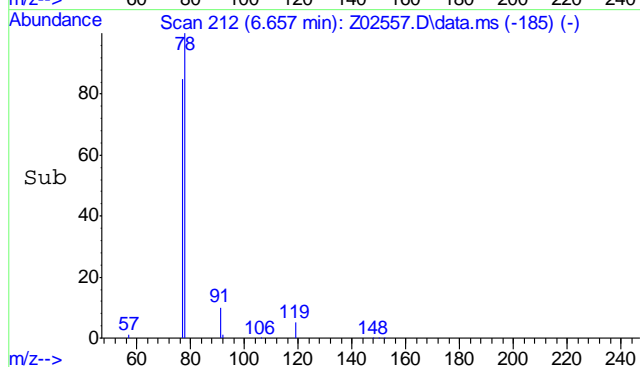
Quant Time: Jun 10 10:31:12 2014
 Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M
 Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM





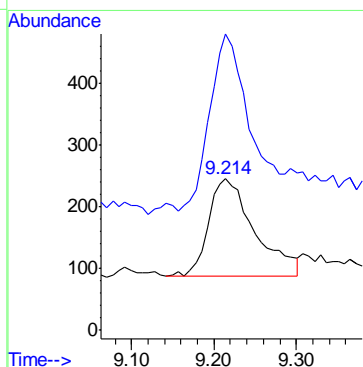
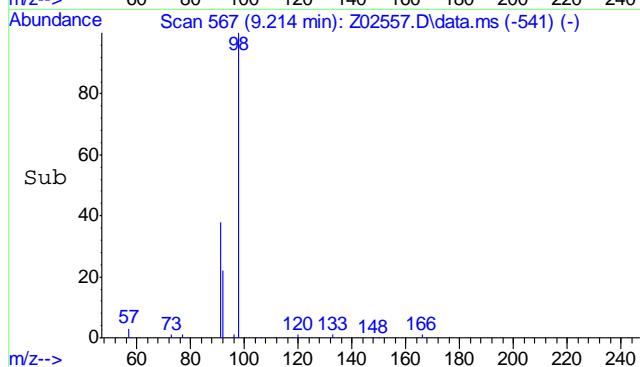
#7
 Benzene
 Concen: 8.86 ng/mL m
 RT: 6.657 min Scan# 212
 Delta R.T. -0.007 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion:	78	Resp:	1449
Ion Ratio	Lower	Upper	
78	100		
77	3032.2	18.1	27.1#

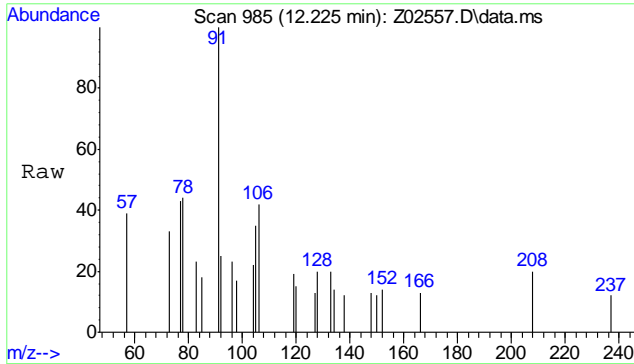


#8
 Cl-Benzene
 Concen: 3.72 ng/mL
 RT: 9.214 min Scan# 567
 Delta R.T. -0.015 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion:	92	Resp:	608
Ion Ratio	Lower	Upper	
92	100		
91	164.0	135.7	203.5

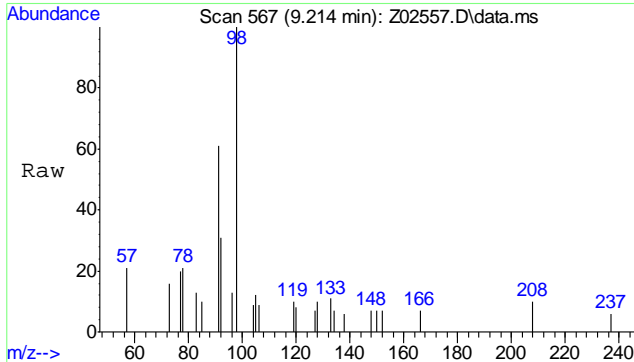
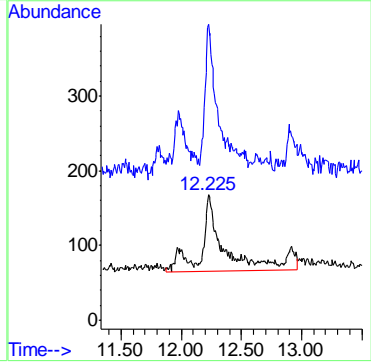
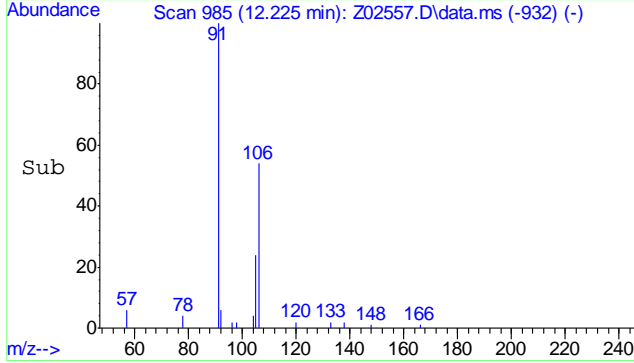


7.14
7



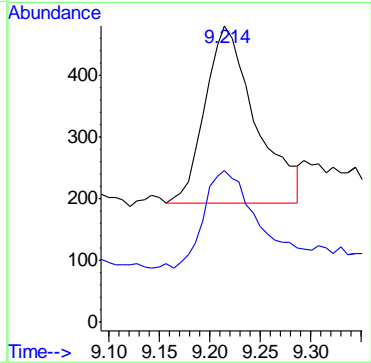
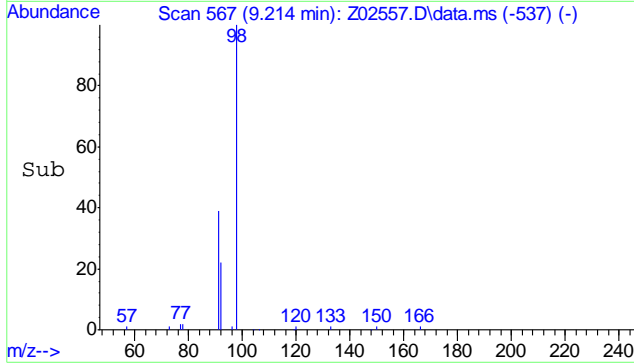
#9
 C2-Benzenes
 Concen: 8.31 ng/mL m
 RT: 12.225 min Scan# 985
 Delta R.T. 0.021 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	81.4	154.4	231.6#

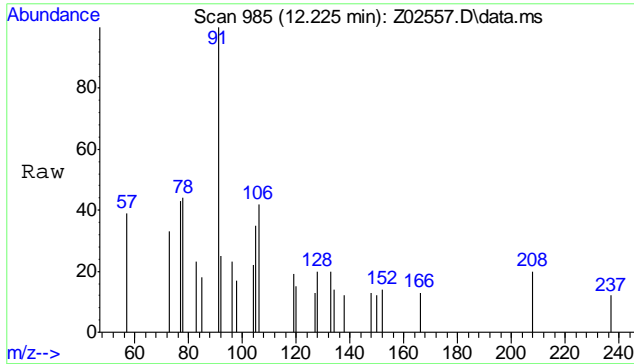


#14
 Toluene
 Concen: 5.62 ng/mL
 RT: 9.214 min Scan# 567
 Delta R.T. 0.014 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	61.0	47.0	70.4

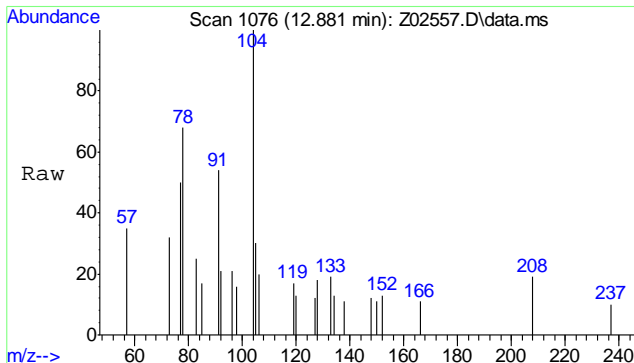
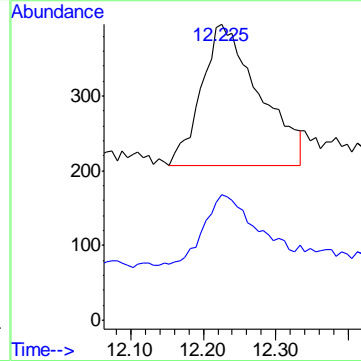
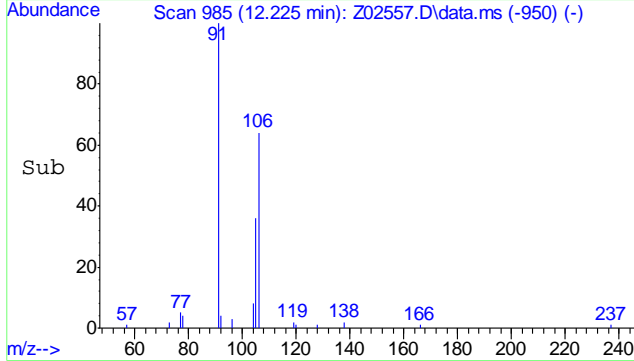


7.14
7



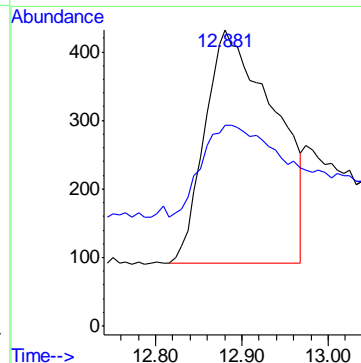
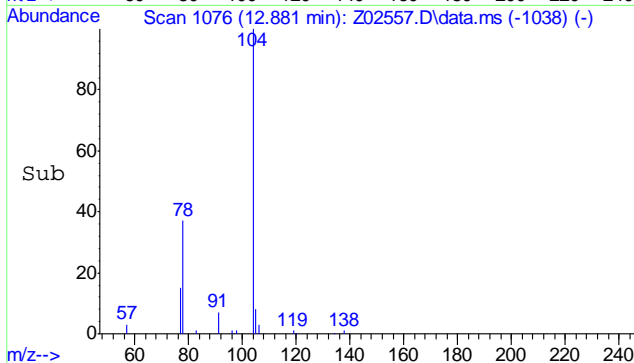
#16
 m,p-xylene
 Concen: 7.48 ng/mL
 RT: 12.225 min Scan# 985
 Delta R.T. 0.050 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion	Resp	Lower	Upper
91	1046	100	
106	47.5	39.7	59.5

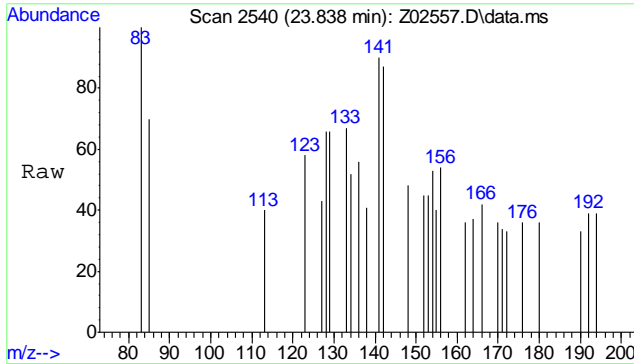


#17
 Styrene
 Concen: 18.60 ng/mL
 RT: 12.881 min Scan# 1076
 Delta R.T. 0.072 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion	Resp	Lower	Upper
104	1910	100	
78	43.3	33.0	49.4

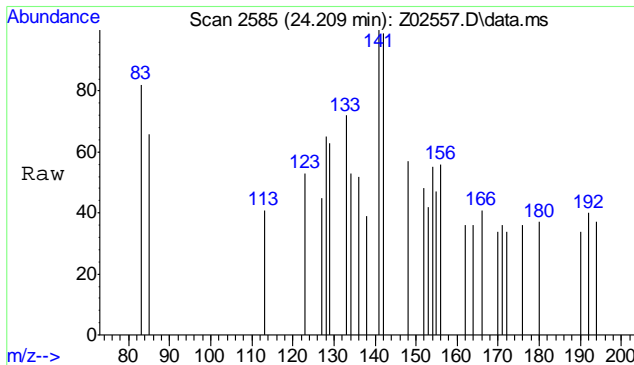
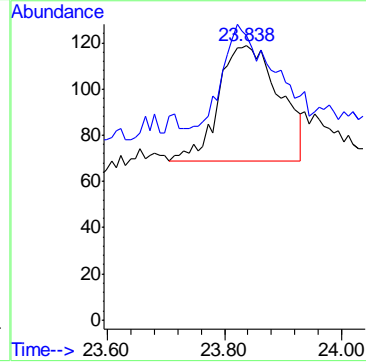
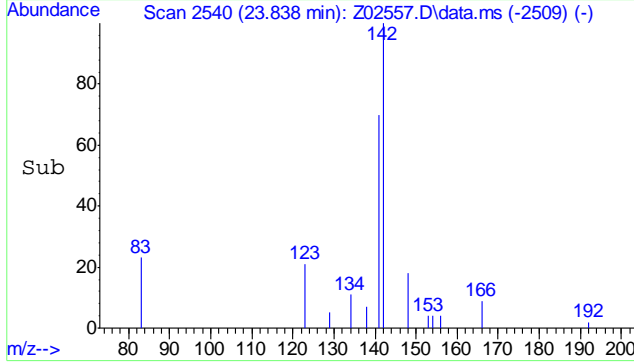


7.14
7



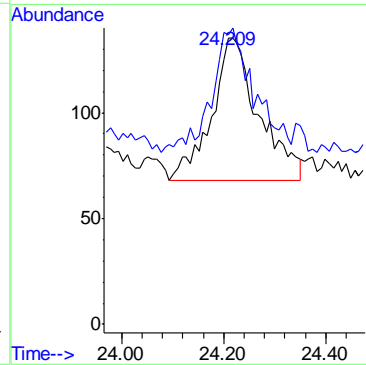
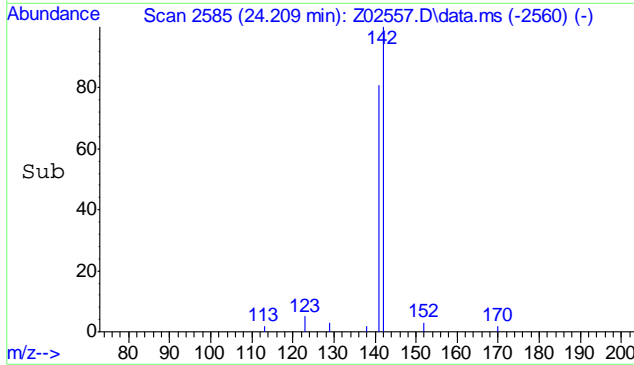
#45
 2-Methylnaphthalene
 Concen: 2.28 ng/mL
 RT: 23.838 min Scan# 2540
 Delta R.T. 0.058 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion:	142	Resp:	355
Ion Ratio	Lower	Upper	
	142	100	
	141	71.0	68.5 102.7

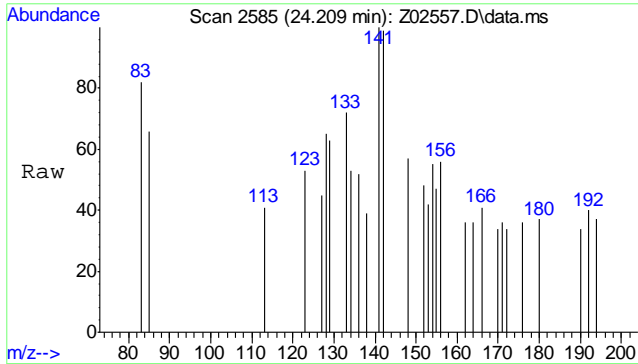


#46
 1-Methylnaphthalene
 Concen: 2.55 ng/mL
 RT: 24.209 min Scan# 2585
 Delta R.T. 0.008 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion:	142	Resp:	429
Ion Ratio	Lower	Upper	
	142	100	
	141	80.4	71.1 106.7

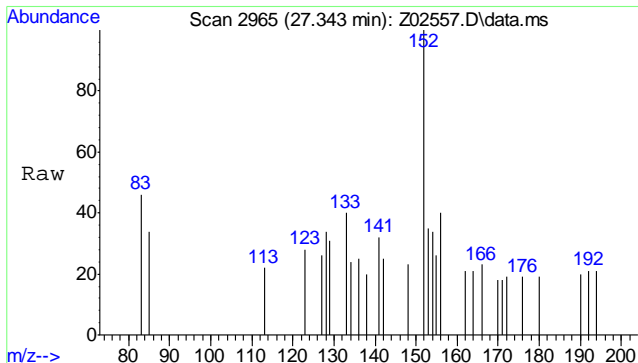
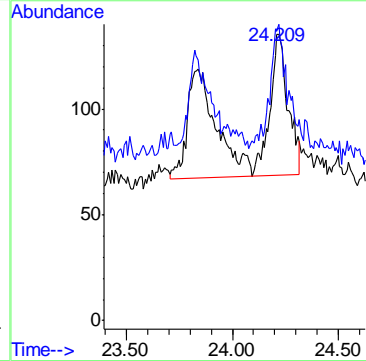
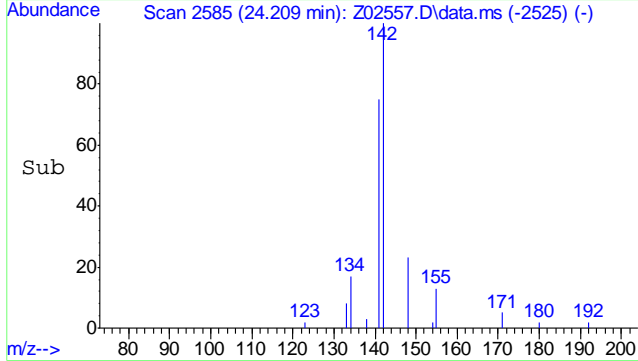


7.1.4
7



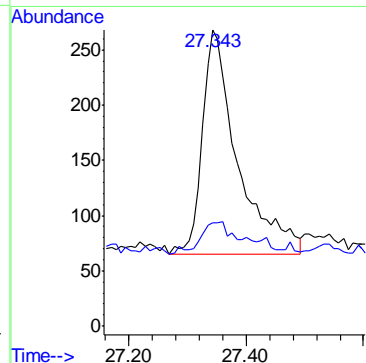
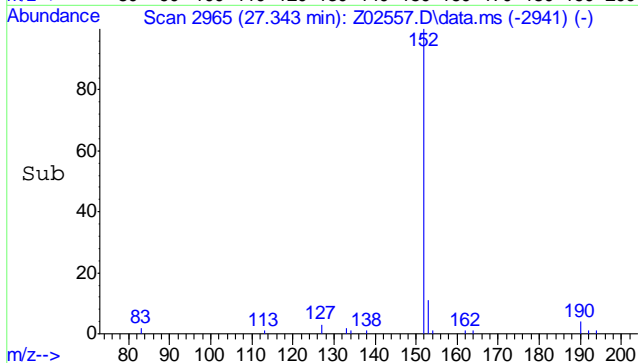
#47
 Cl-Naphthalenes
 Concen: 3.56 ng/mL m
 RT: 24.209 min Scan# 2585
 Delta R.T. 0.422 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion:	142	Resp:	890
Ion Ratio	Lower	Upper	
	142	100	
	141	30.7	68.5 102.7#

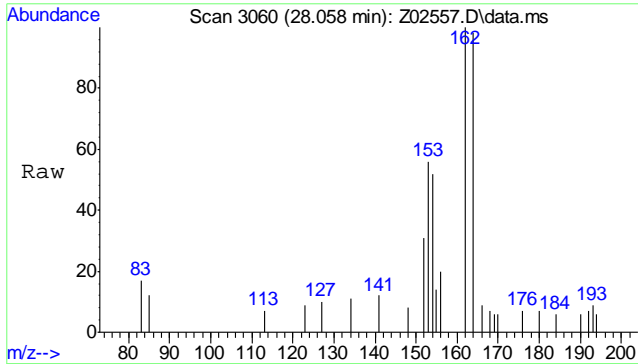


#52
 Acenaphthylene
 Concen: 3.51 ng/mL
 RT: 27.343 min Scan# 2965
 Delta R.T. 0.000 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion:	152	Resp:	848
Ion Ratio	Lower	Upper	
	152	100	
	153	0.0	10.3 15.5#

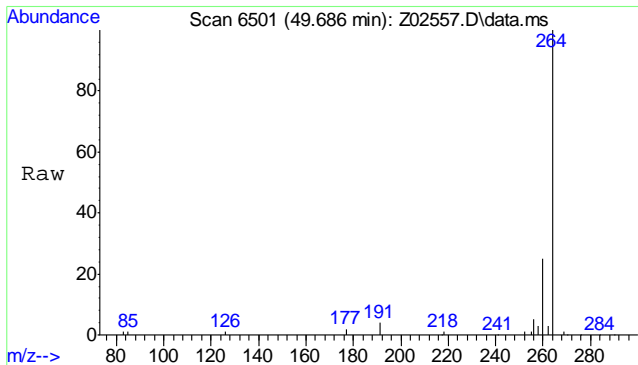
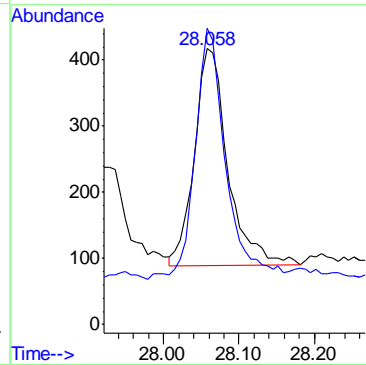
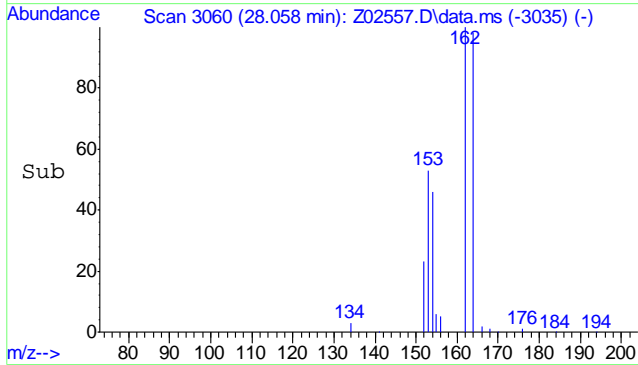


7.14
7



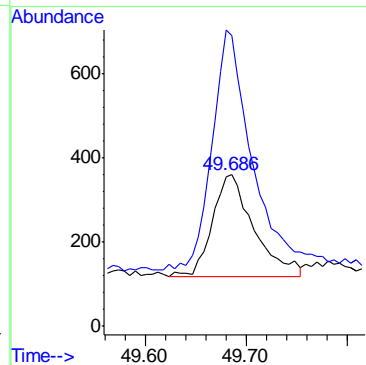
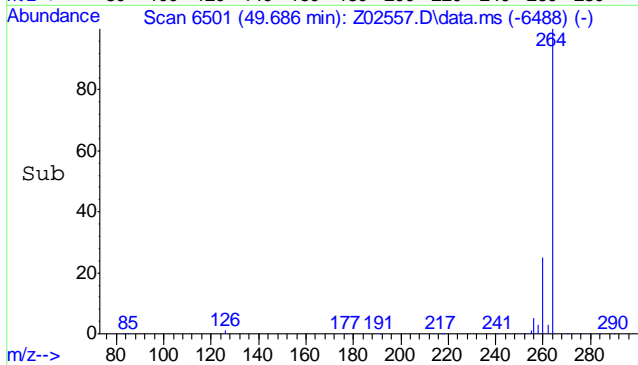
#53
 Acenaphthene
 Concen: 6.63 ng/mL
 RT: 28.058 min Scan# 3060
 Delta R.T. -0.022 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion	Resp	Lower	Upper
154	1003	100	
153	106.9	88.8	133.2

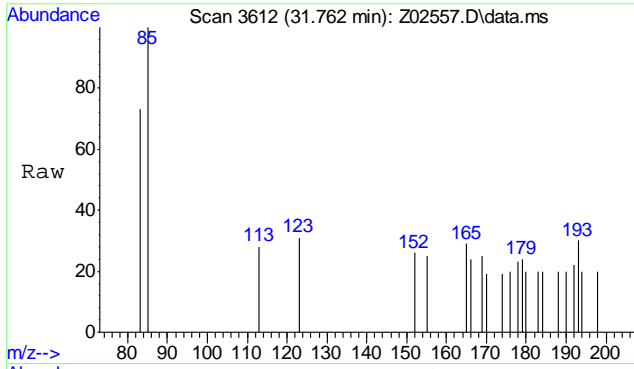


#98
 Perylene
 Concen: 3.23 ng/mL
 RT: 49.686 min Scan# 6501
 Delta R.T. -0.129 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion	Resp	Lower	Upper
252	689	100	
126	236.6	17.3	25.9#

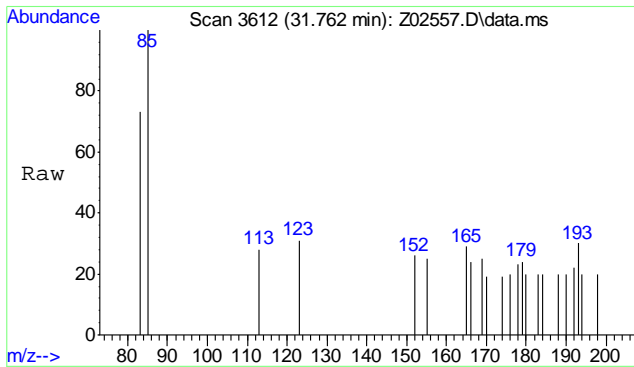
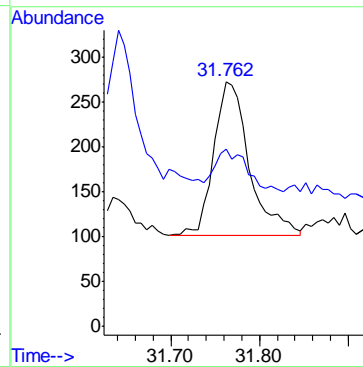
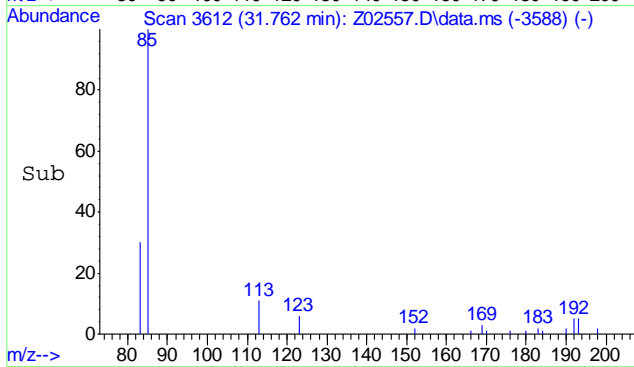


7.14
7



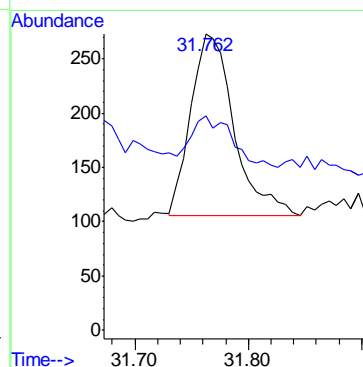
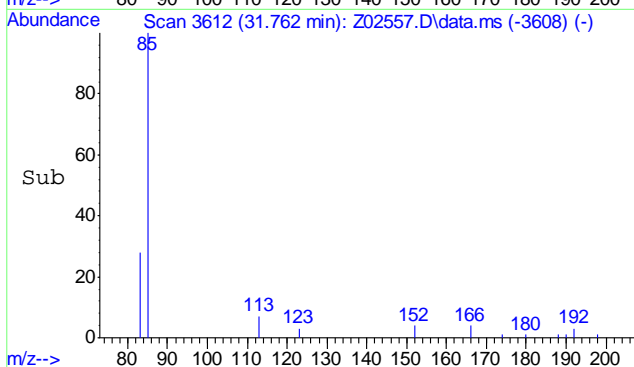
#103
 C-17
 Concen: 10.67 ng/mL
 RT: 31.762 min Scan# 3612
 Delta R.T. -0.045 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion	Resp	Lower	Upper
85	100		
83	0.0	11.8	17.8#

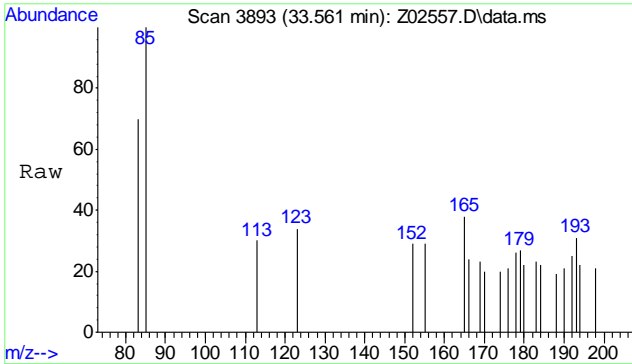


#104
 Pristane
 Concen: 12.95 ng/mL
 RT: 31.762 min Scan# 3612
 Delta R.T. -0.173 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion	Resp	Lower	Upper
85	100		
83	0.0	10.5	15.7#

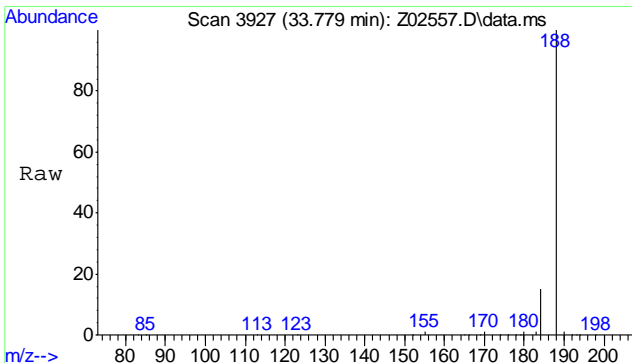
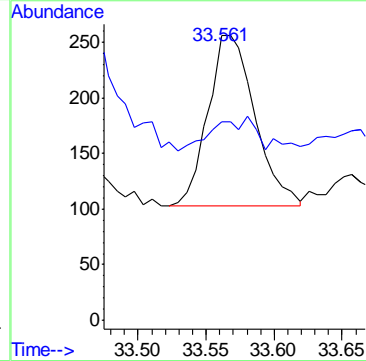
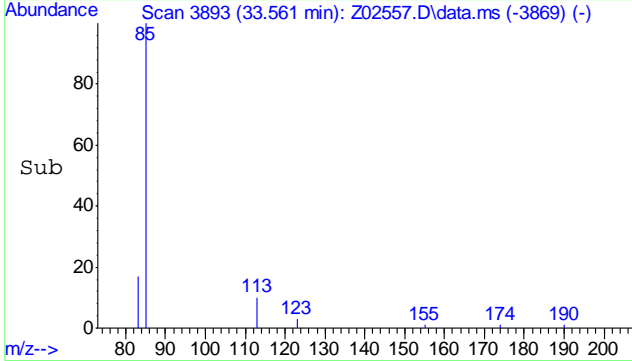


7.14
7



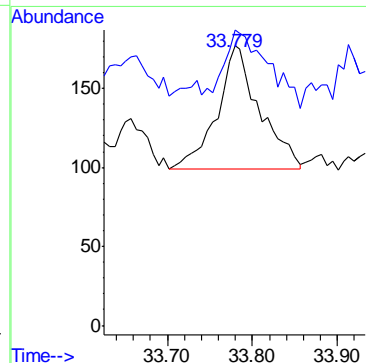
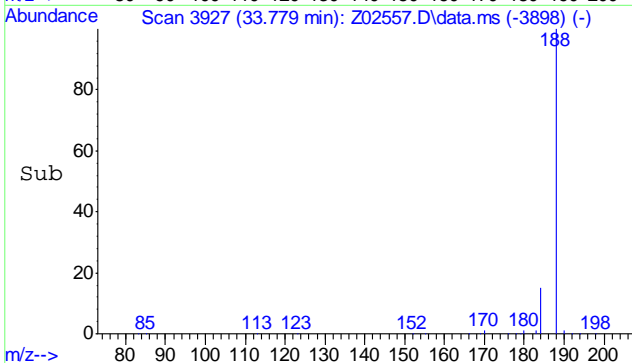
#105
 C-18
 Concen: 8.13 ng/mL
 RT: 33.561 min Scan# 3893
 Delta R.T. -0.045 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion:	85	Resp:	368
Ion Ratio	100	Lower	Upper
83	0.0	13.0	19.4#



#106
 Phytane
 Concen: 6.04 ng/mL
 RT: 33.779 min Scan# 3927
 Delta R.T. -0.013 min
 Lab File: Z02557.D
 Acq: 6 Jun 2014 9:51 pm

Tgt Ion:	85	Resp:	271
Ion Ratio	100	Lower	Upper
83	0.0	10.1	15.1#



7.14
7

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140604\Z02526.D
 Sample : op38366-mb
 Misc : op38366,msz100,5.00,,,2,1
 ALS Vial : 8 Sample Multiplier: 1
 Acq On : 5 Jun 2014 2:07 am

Operator: sofyaz

Quant Time: Jun 06 12:28:26 2014
 Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M
 Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM

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

Internal Standards						
1) Acenaphthene-d10	27.965	164	104716	1000.00	ng/mL	0.01
System Monitoring Compounds						
2) Toluene-d8	9.092	98	100738	899.34	ng/mL	0.00
Spiked Amount	1000.000		Recovery	=	89.93%	
3) Naphthalene-d8	21.034	136	155861m	786.53	ng/mL	0.03
Spiked Amount	1000.000		Recovery	=	78.65%	
4) Phenanthrene-d10	33.830	188	148067	863.69	ng/mL	0.01
Spiked Amount	1000.000		Recovery	=	86.37%	
5) Perylene-d12	49.719	264	122841	815.69	ng/mL	-0.01
Spiked Amount	1000.000		Recovery	=	81.57%	
Target Compounds						
						Qvalue
7) Benzene	6.650	78	966m	6.25	ng/mL	
14) Toluene	9.214	91	342	2.04	ng/mL#	21
103) C-17	31.807	85	468	10.88	ng/mL#	64
104) Pristane	31.922	85	530	16.47	ng/mL#	67
105) C-18	33.606	85	274	6.41	ng/mL#	62
106) Phytane	33.779	85	681	16.06	ng/mL#	68

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

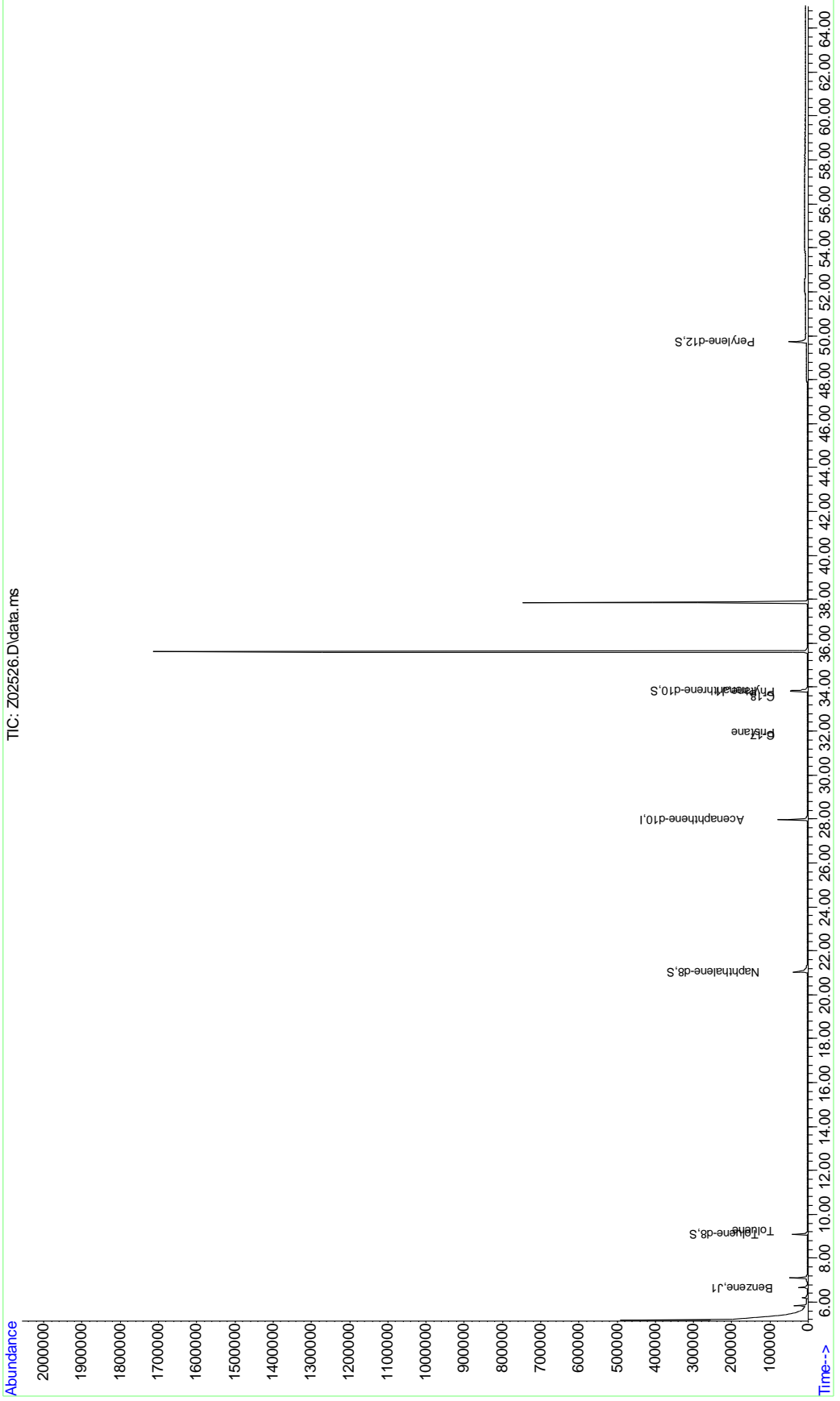
7.2.1
7

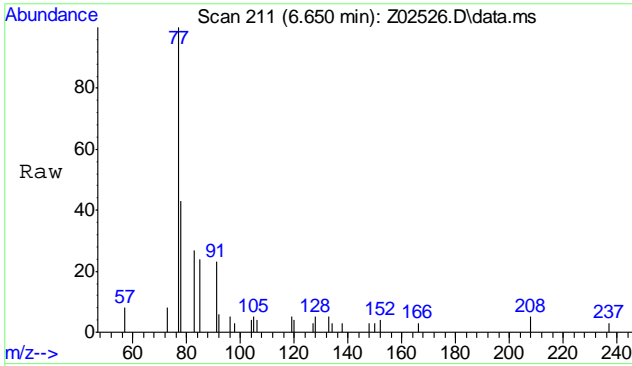
Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140604\Z02526.D
Sample : op38366-mb
Misc : op38366,msz100,5.00,,,2,1
ALS Vial : 8 Sample Multiplier: 1
Acq On : 5 Jun 2014 2:07 am

Operator: sofyaz

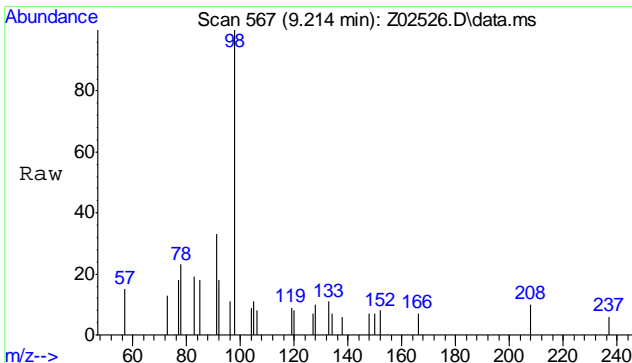
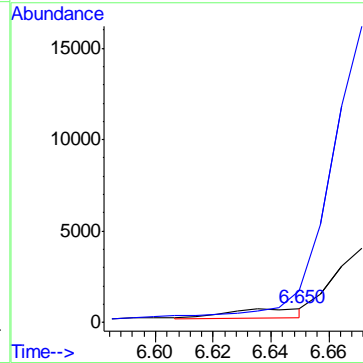
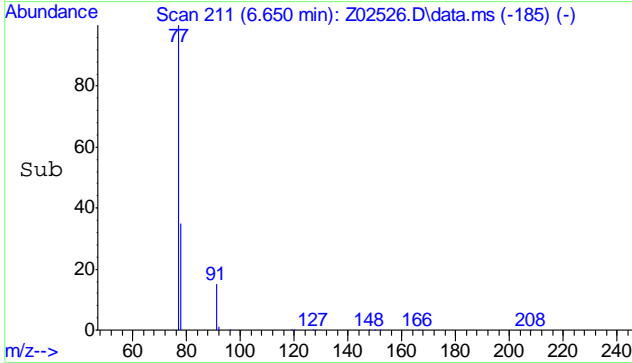
Quant Time: Jun 06 12:28:26 2014
Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M
Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM





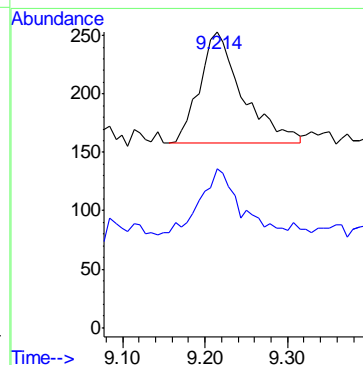
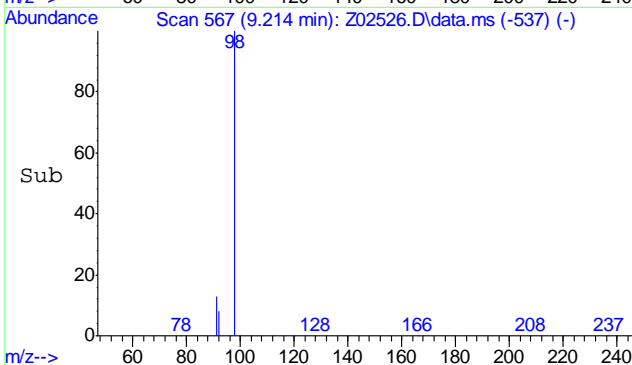
#7
 Benzene
 Concen: 6.25 ng/mL m
 RT: 6.650 min Scan# 211
 Delta R.T. -0.014 min
 Lab File: Z02526.D
 Acq: 5 Jun 2014 2:07 am

Tgt Ion	Resp	Lower	Upper
78	100		
77	3920.1	18.1	27.1#



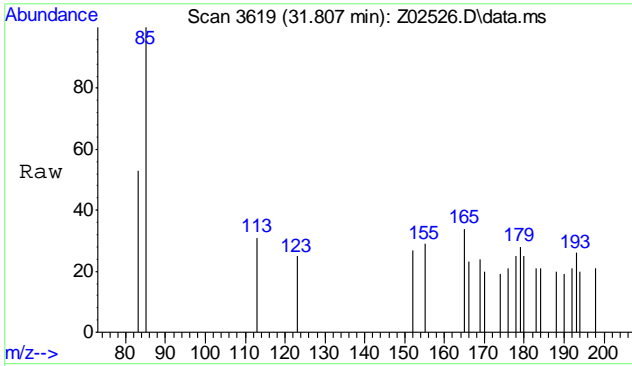
#14
 Toluene
 Concen: 2.04 ng/mL
 RT: 9.214 min Scan# 567
 Delta R.T. 0.014 min
 Lab File: Z02526.D
 Acq: 5 Jun 2014 2:07 am

Tgt Ion	Resp	Lower	Upper
91	100		
92	0.0	47.0	70.4#



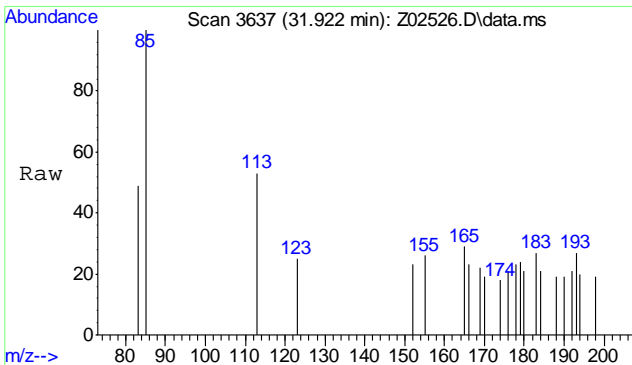
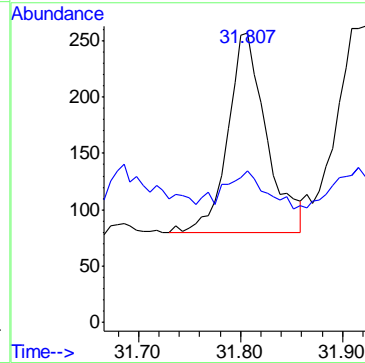
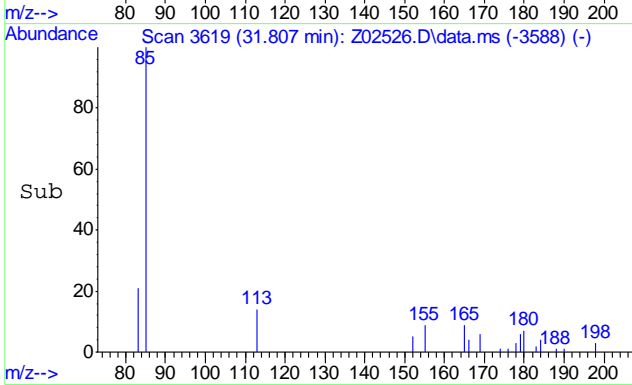
7.2.1

7



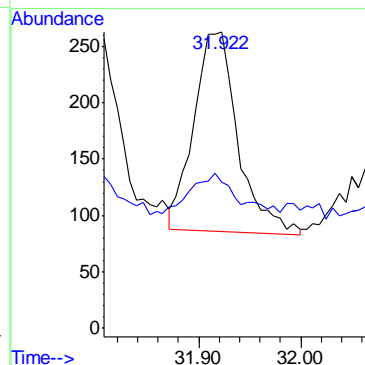
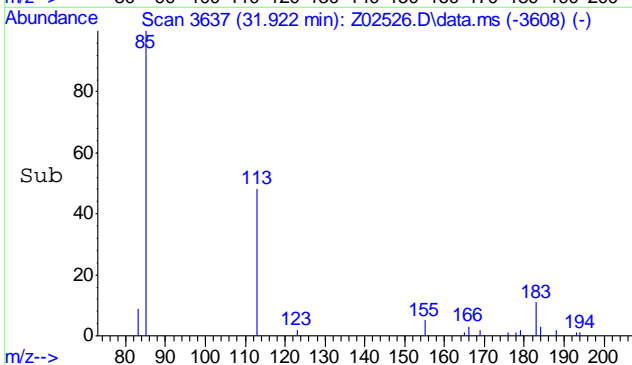
#103
 C-17
 Concen: 10.88 ng/mL
 RT: 31.807 min Scan# 3619
 Delta R.T. 0.000 min
 Lab File: Z02526.D
 Acq: 5 Jun 2014 2:07 am

Tgt Ion	Resp	Lower	Upper
85	100		
83	0.0	11.8	17.8#

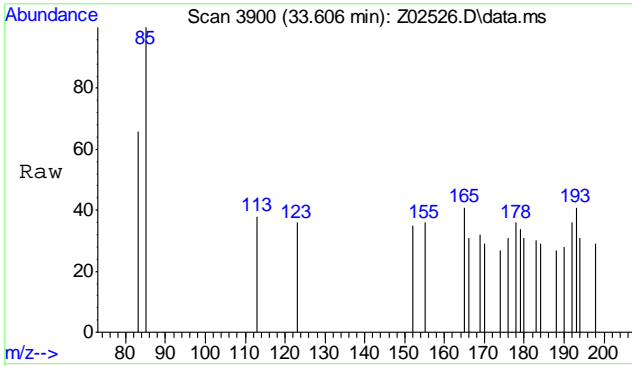


#104
 Pristane
 Concen: 16.47 ng/mL
 RT: 31.922 min Scan# 3637
 Delta R.T. -0.013 min
 Lab File: Z02526.D
 Acq: 5 Jun 2014 2:07 am

Tgt Ion	Resp	Lower	Upper
85	100		
83	0.0	10.5	15.7#

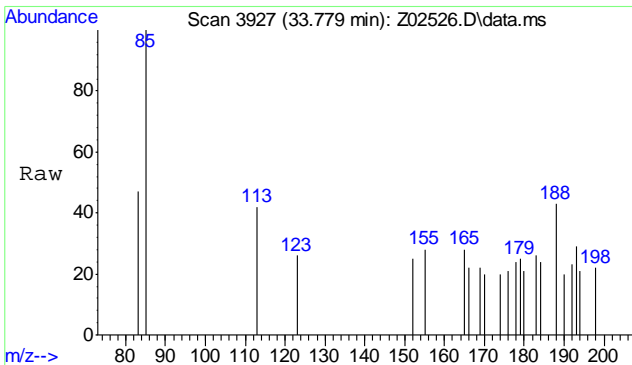
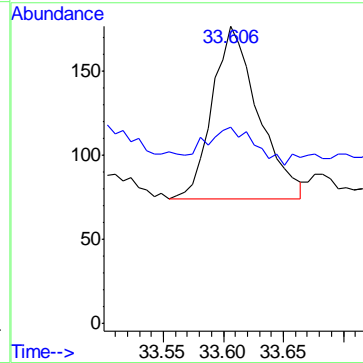
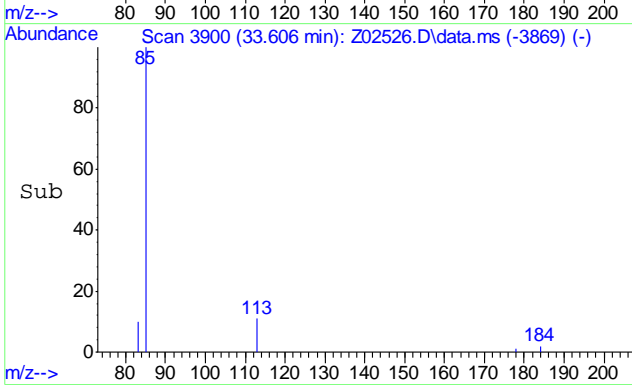


7.2.1
7



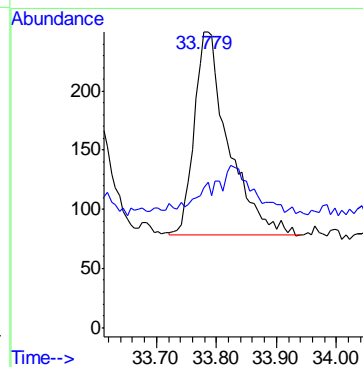
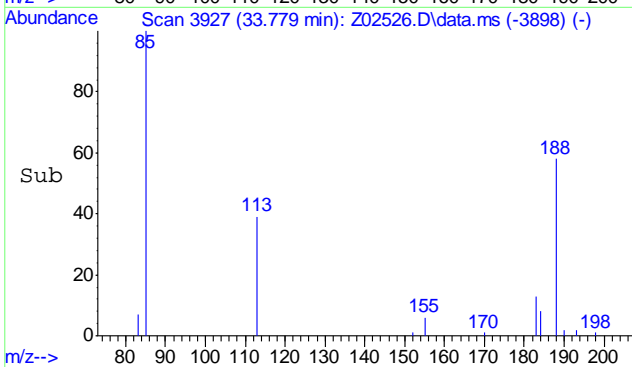
#105
 C-18
 Concen: 6.41 ng/mL
 RT: 33.606 min Scan# 3900
 Delta R.T. 0.000 min
 Lab File: Z02526.D
 Acq: 5 Jun 2014 2:07 am

Tgt Ion:	85	Resp:	274
Ion Ratio	100	Lower	Upper
83	0.0	13.0	19.4#



#106
 Phytane
 Concen: 16.06 ng/mL
 RT: 33.779 min Scan# 3927
 Delta R.T. -0.013 min
 Lab File: Z02526.D
 Acq: 5 Jun 2014 2:07 am

Tgt Ion:	85	Resp:	681
Ion Ratio	100	Lower	Upper
83	0.0	10.1	15.1#



7.2.1
7

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02553.D

Sample : op38385-mb

Misc : op38385,msz101,35,,,2,1

ALS Vial : 10 Sample Multiplier: 1

Acq On : 6 Jun 2014 4:38 pm

Operator: sofyaz

Quant Time: Jun 09 08:36:35 2014

Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M

Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Acenaphthene-d10	27.929	164	112706	1000.00	ng/mL	-0.02
System Monitoring Compounds						
2) Toluene-d8	9.092	98	118029	979.00	ng/mL	0.00
Spiked Amount	1000.000		Recovery	=	97.90%	
3) Naphthalene-d8	20.992	136	191130	896.13	ng/mL	0.00
Spiked Amount	1000.000		Recovery	=	89.61%	
4) Phenanthrene-d10	33.786	188	180418	977.79	ng/mL	-0.03
Spiked Amount	1000.000		Recovery	=	97.78%	
5) Perylene-d12	49.686	264	160030	987.30	ng/mL	-0.05
Spiked Amount	1000.000		Recovery	=	98.73%	
Target Compounds						
						Qvalue
7) Benzene	6.657	78	1693m	10.18	ng/mL	
8) C1-Benzene	9.214	92	595	3.58	ng/mL#	70
14) Toluene	9.214	91	1254	6.95	ng/mL	85
16) m,p-xylene	12.218	91	1061	7.47	ng/mL	93
17) Styrene	12.866	104	3476	33.29	ng/mL	100
45) 2-Methylnaphthalene	23.813	142	458	2.90	ng/mL#	7
46) 1-Methylnaphthalene	24.201	142	281	1.64	ng/mL	85
52) Acenaphthylene	27.335	152	479	1.95	ng/mL#	67
103) C-17	31.769	85	633	13.68	ng/mL#	64
105) C-18	33.568	85	515	11.19	ng/mL#	62
106) Phytane	33.786	85	285	6.24	ng/mL#	68

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

7.22
7

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\2\data\Z140605\Z02553.D

Sample : op38385-mb

Misc : op38385,msz101,35,,2,1

ALS Vial : 10 Sample Multiplier: 1

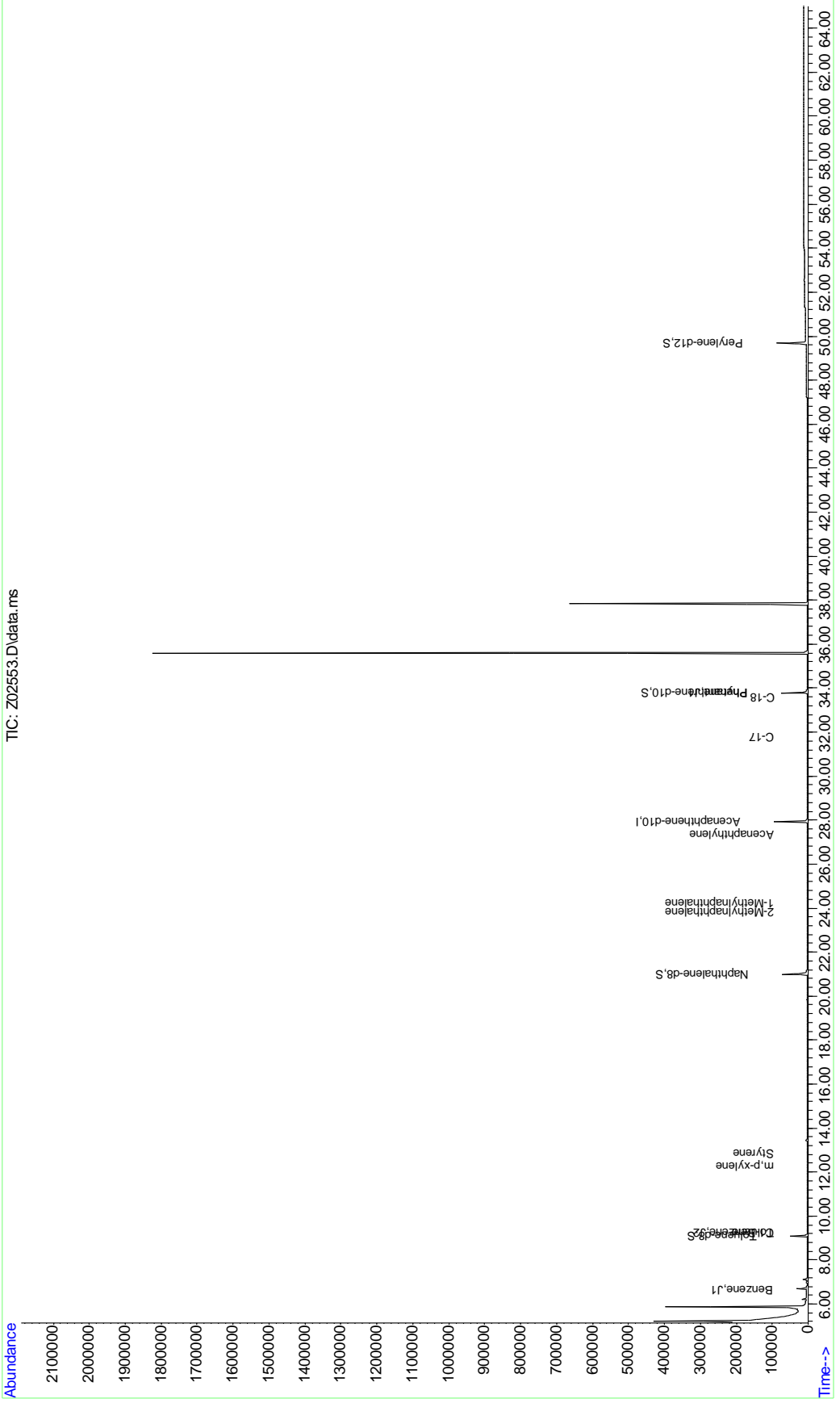
Acq On : 6 Jun 2014 4:38 pm

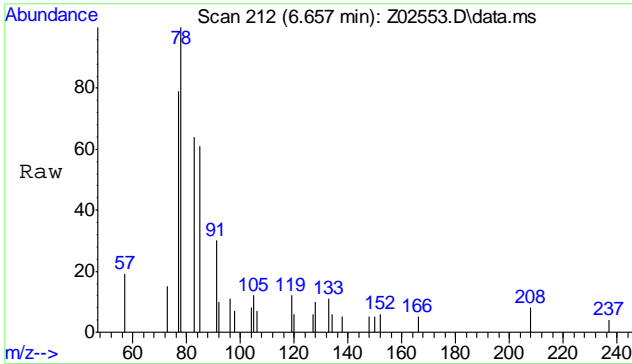
Operator: sofyaz

Quant Time: Jun 09 08:36:35 2014

Quant Method : C:\msdchem\2\methods\Z140604-MAHPAHEXT.M

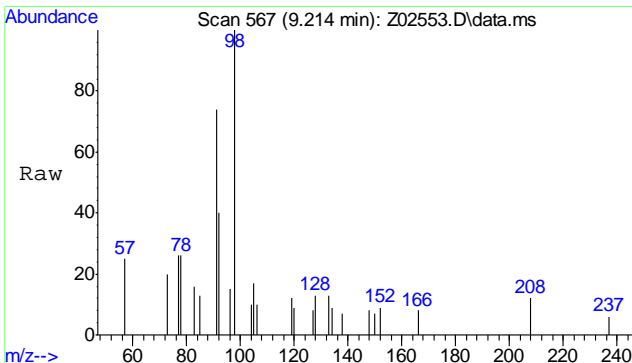
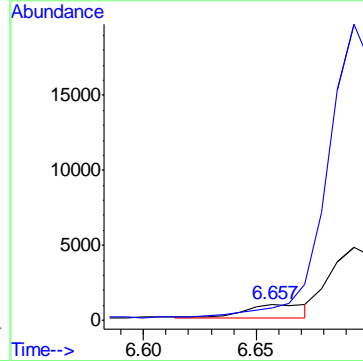
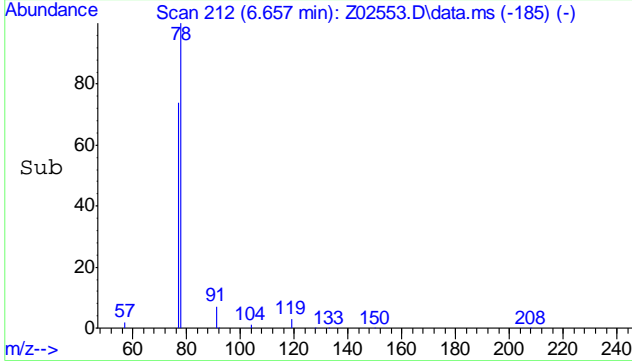
Quant Title : PAHs & Alkylated PAHs by GC/MS/SIM





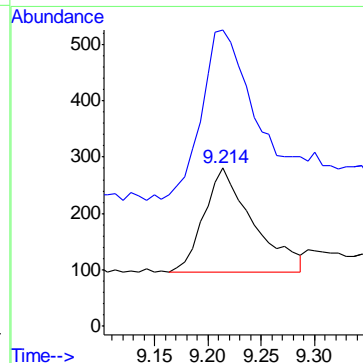
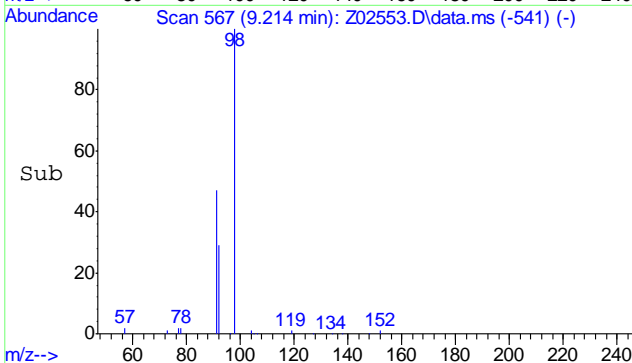
#7
 Benzene
 Concen: 10.18 ng/mL m
 RT: 6.657 min Scan# 212
 Delta R.T. -0.007 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

 Tgt Ion: 78 Resp: 1693
 Ion Ratio Lower Upper
 78 100
 77 2693.4 18.1 27.1#

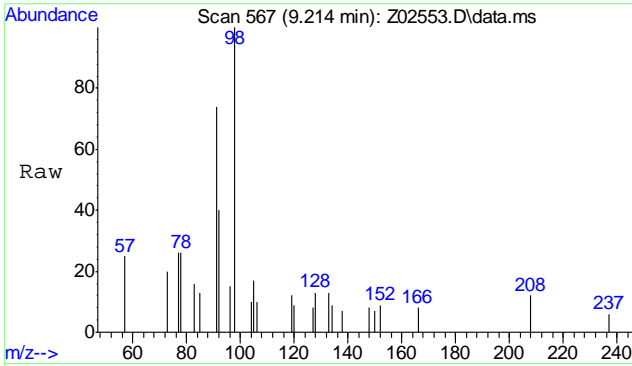


#8
 Cl-Benzene
 Concen: 3.58 ng/mL
 RT: 9.214 min Scan# 567
 Delta R.T. -0.015 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

 Tgt Ion: 92 Resp: 595
 Ion Ratio Lower Upper
 92 100
 91 210.8 135.7 203.5#

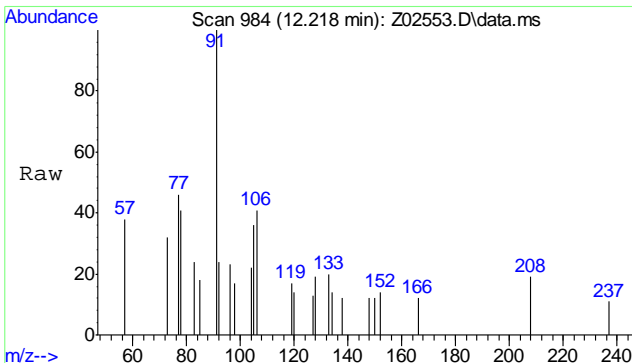
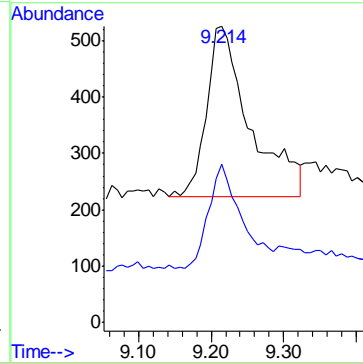
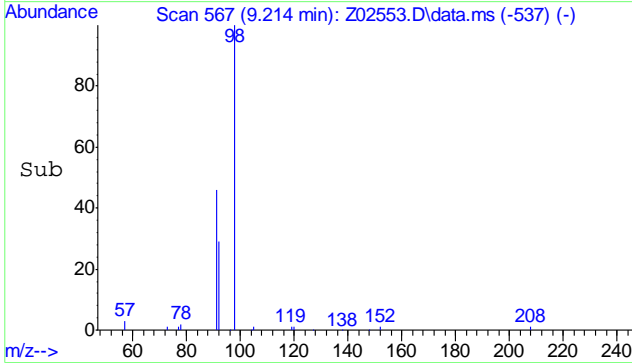


7.2.2
7



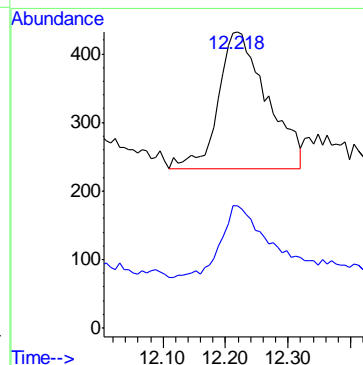
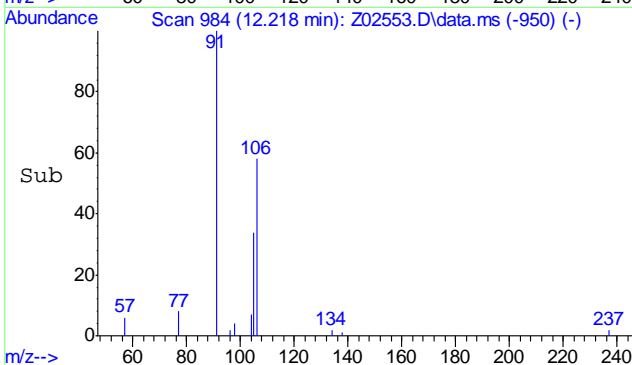
#14
 Toluene
 Concen: 6.95 ng/mL
 RT: 9.214 min Scan# 567
 Delta R.T. 0.014 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	47.4	47.0	70.4

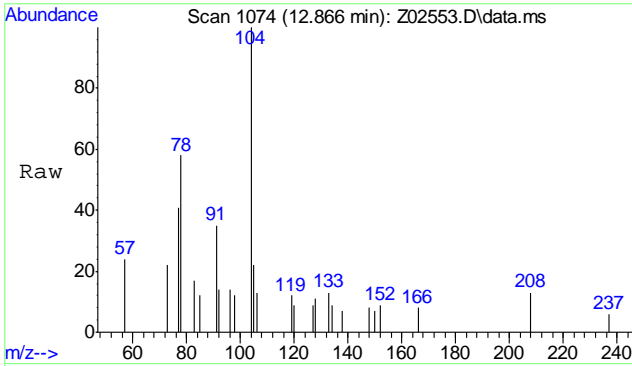


#16
 m,p-xylene
 Concen: 7.47 ng/mL
 RT: 12.218 min Scan# 984
 Delta R.T. 0.043 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

Tgt Ion	Resp	Lower	Upper
91	100		
106	54.5	39.7	59.5

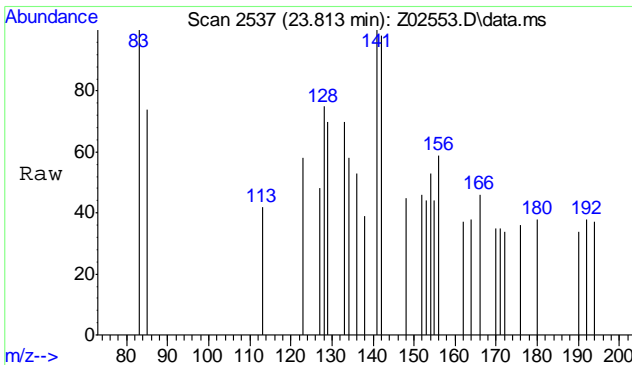
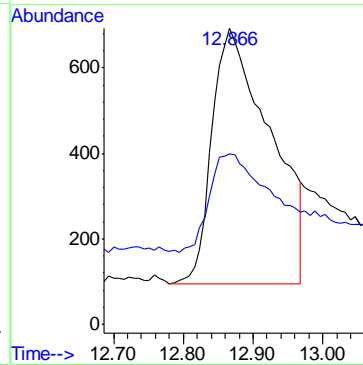
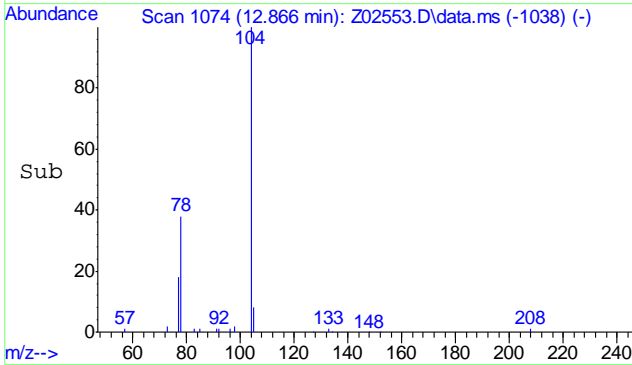


7.2.2
7



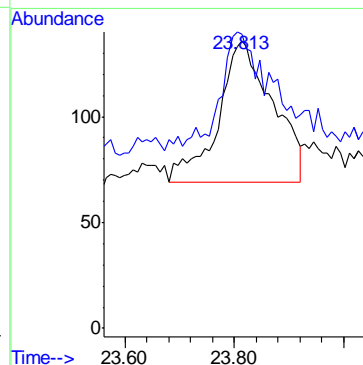
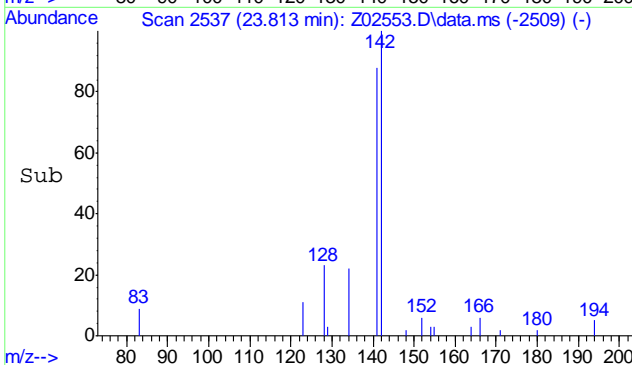
#17
 Styrene
 Concen: 33.29 ng/mL
 RT: 12.866 min Scan# 1074
 Delta R.T. 0.057 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

Tgt Ion	Resp	Lower	Upper
104	3476	100	
78	41.1	33.0	49.4

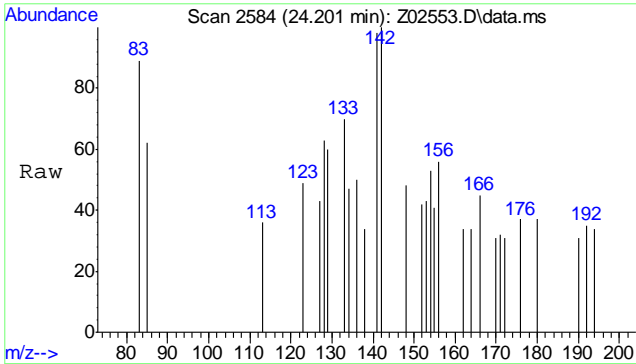


#45
 2-Methylnaphthalene
 Concen: 2.90 ng/mL
 RT: 23.813 min Scan# 2537
 Delta R.T. 0.033 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

Tgt Ion	Resp	Lower	Upper
142	458	100	
141	0.0	68.5	102.7#

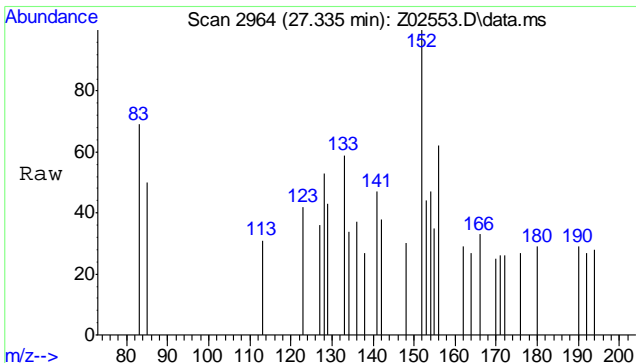
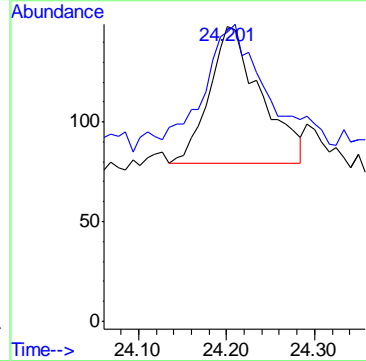
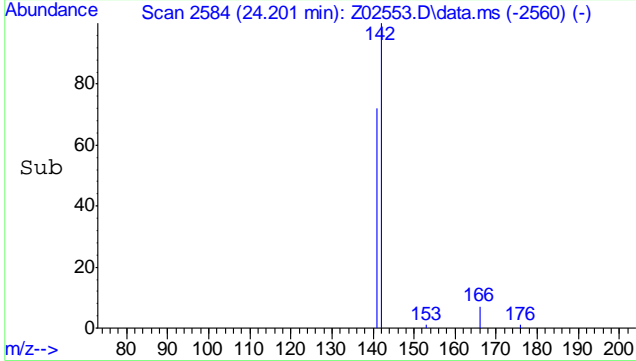


7.2.2
7



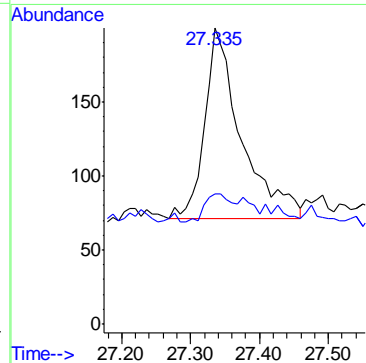
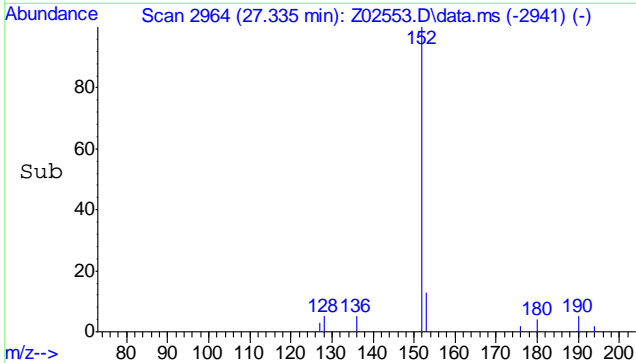
#46
 1-Methylnaphthalene
 Concen: 1.64 ng/mL
 RT: 24.201 min Scan# 2584
 Delta R.T. -0.000 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

Tgt Ion:142	Resp:	281
Ion Ratio	Lower	Upper
142	100	
141	103.2	71.1 106.7

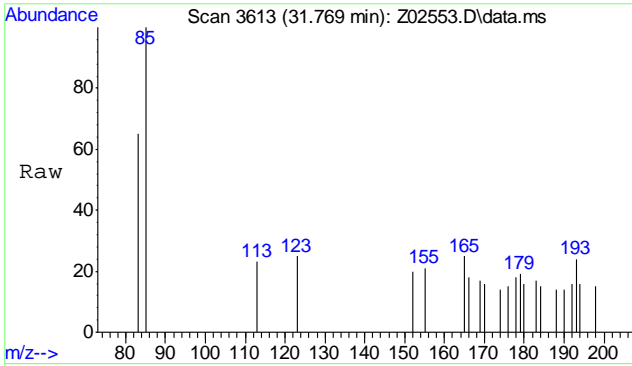


#52
 Acenaphthylene
 Concen: 1.95 ng/mL
 RT: 27.335 min Scan# 2964
 Delta R.T. -0.008 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

Tgt Ion:152	Resp:	479
Ion Ratio	Lower	Upper
152	100	
153	0.0	10.3 15.5#

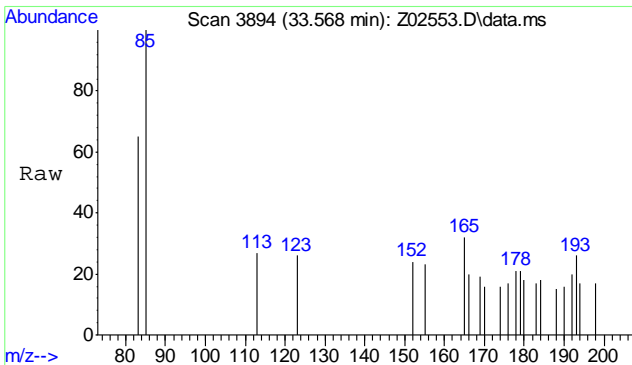
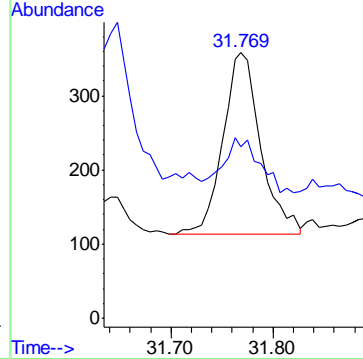
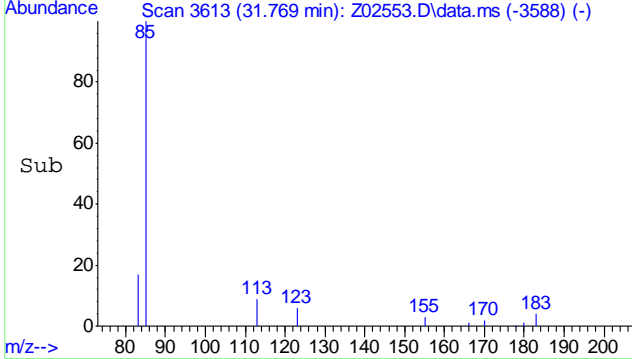


7.2.2
7



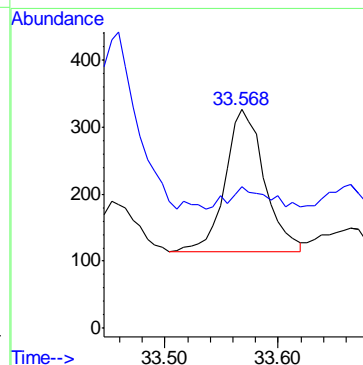
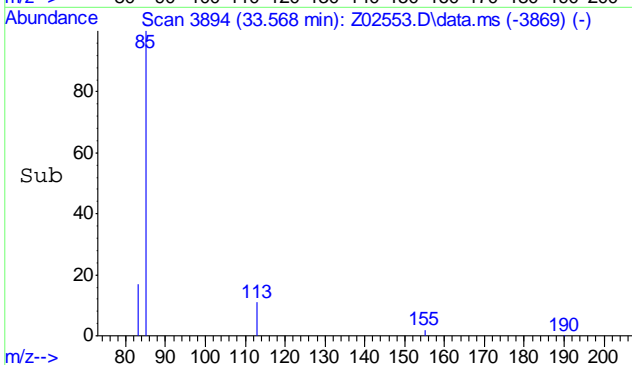
#103
 C-17
 Concen: 13.68 ng/mL
 RT: 31.769 min Scan# 3613
 Delta R.T. -0.038 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

Tgt Ion: 85	Resp: 633
Ion Ratio	Lower Upper
85	100
83	0.0 11.8 17.8#

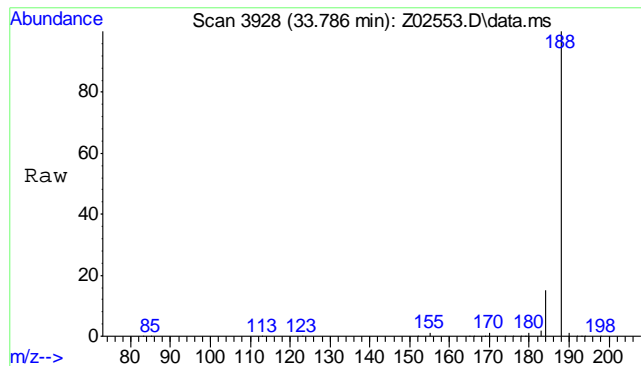


#105
 C-18
 Concen: 11.19 ng/mL
 RT: 33.568 min Scan# 3894
 Delta R.T. -0.038 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

Tgt Ion: 85	Resp: 515
Ion Ratio	Lower Upper
85	100
83	0.0 13.0 19.4#

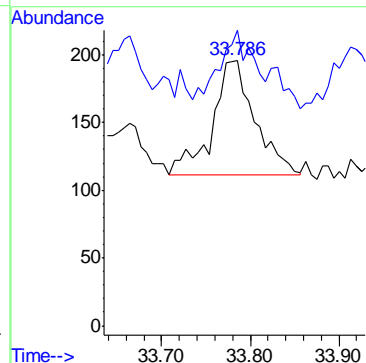
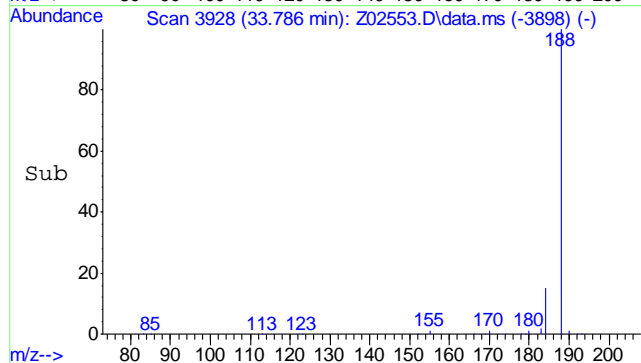


7.2.2
7



#106
 Phytane
 Concen: 6.24 ng/mL
 RT: 33.786 min Scan# 3928
 Delta R.T. -0.006 min
 Lab File: Z02553.D
 Acq: 6 Jun 2014 4:38 pm

Tgt Ion	85	83	Resp	100	0.0	285	10.1	Upper	15.1#
Ion Ratio	100	0.0	10.1	15.1#					



7.2.2
7

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

Method Blank Summary

Page 1 of 1

Job Number: MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38365-MB	BG44581A.D	1	06/04/14	RP	06/02/14	OP38365	GBG1702

The QC reported here applies to the following samples:**Method:** ASTM D3328-06

MC30898-2, MC30898-3

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	40	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	95% 40-140%

8.1.1

8

Method Blank Summary

Page 1 of 1

Job Number: MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38384-MB	BG44604.D	1	06/05/14	RP	06/03/14	OP38384	GBG1703

The QC reported here applies to the following samples:**Method:** ASTM D3328-06

MC30898-1, MC30898-4

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	5.7	mg/l	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	107% 40-140%

8.12
8

Blank Spike Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38365-BS1	BG44583.D	1	06/04/14	RP	06/02/14	OP38365	GBG1702

The QC reported here applies to the following samples:**Method:** ASTM D3328-06

MC30898-2, MC30898-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C8-C40)		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	97%	40-140%

* = Outside of Control Limits.

Blank Spike Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38384-BS1	BG44606.D	1	06/05/14	RP	06/03/14	OP38384	GBG1703

The QC reported here applies to the following samples:**Method:** ASTM D3328-06

MC30898-1, MC30898-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C8-C40)		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	104%	40-140%

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC30898
Account: METAMAW META Environmental, Inc.
Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38365-DUP8	BG44626.D	1	06/05/14	RP	06/02/14	OP38365	GBG1703
MC30898-2	BG44628.D	1	06/05/14	RP	06/02/14	OP38365	GBG1703

The QC reported here applies to the following samples:

Method: ASTM D3328-06

MC30898-2, MC30898-3

CAS No.	Compound	MC30898-2 mg/kg	DUP Q	MC30898-2 mg/kg	DUP Q	RPD	Limits
	TPH (C8-C40)	95.0		202		72* a	30

CAS No.	Surrogate Recoveries	DUP	MC30898-2	Limits
84-15-1	o-Terphenyl	79%	75%	40-140%

(a) High RPD due to possible sample heterogeneity.

* = Outside of Control Limits.

Duplicate Summary**Job Number:** MC30898**Account:** METAMAW META Environmental, Inc.**Project:** GEINYA: RG&E West Station, Falls Street, Rochester, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38384-DUP	BG44608.D	1	06/05/14	RP	06/03/14	OP38384	GBG1703
MC30898-1	BG44610.D	1	06/05/14	RP	06/03/14	OP38384	GBG1703

The QC reported here applies to the following samples:**Method:** ASTM D3328-06

MC30898-1, MC30898-4

CAS No.	Compound	MC30898-1 mg/l	DUP Q	MC30898-1 mg/l	Q	RPD	Limits
	TPH (C8-C40)	ND	ND			nc	20

CAS No.	Surrogate Recoveries	DUP	MC30898-1	Limits
84-15-1	o-Terphenyl	111%	112%	40-140%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: MC30898

Account: METAMAW META Environmental, Inc.

Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY

Method: ASTM D3328-06

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a
MC30898-1	BG44610.D	112
MC30898-4	BG44612.D	109
OP38384-BS1	BG44606.D	104
OP38384-DUP	BG44608.D	111
OP38384-MB	BG44604.D	107

Surrogate Compounds	Recovery Limits
---------------------	-----------------

S1 = o-Terphenyl	40-140%
------------------	---------

(a) Recovery from GC signal #1

8.4.1

8

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: MC30898

Account: METAMAW META Environmental, Inc.

Project: GEINYA: RG&E West Station, Falls Street, Rochester, NY

Method: ASTM D3328-06

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a
MC30898-2	BG44628.D	75
MC30898-3	BG44630.D	85
OP38365-BS1	BG44583.D	97
OP38365-DUP8	BG44626.D	79
OP38365-MB	BG44581A.D	95

Surrogate Compounds	Recovery Limits
------------------------	--------------------

S1 = o-Terphenyl	40-140%
------------------	---------

(a) Recovery from GC signal #1

8.4.2
8

GC Semi-volatiles

Raw Data

James Roush
06/13/14 12:10

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\data\BG140604.SEC\BG44610.D

Sample : MC30898-1

Misc : OP38384,GBG1703,35,,,2,1

ALS Vial : 31 Sample Multiplier: 1

Acq On : 5 Jun 2014 11:17 am

Operator: RubenP

Quant Time: Jun 11 11:47:50 2014

Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m

Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

Compound	R.T.	Response	Conc Units

Internal Standards			
1) I 5a-Androstane	31.696	107313786	50.000 µg/mLm
System Monitoring Compounds			
2) S o-Terphenyl	29.675	60955249	27.947 µg/mLm
Spiked Amount 25.000		Recovery =	111.79%
Target Compounds			
41) H TPH (C8-C40)	31.554	39522228	19.430 µg/mLm
SemiQuant Compounds - Not Calibrated on this Instrument			

(f)=RT Delta > 1/2 Window

(m)=manual int.

9.1.1

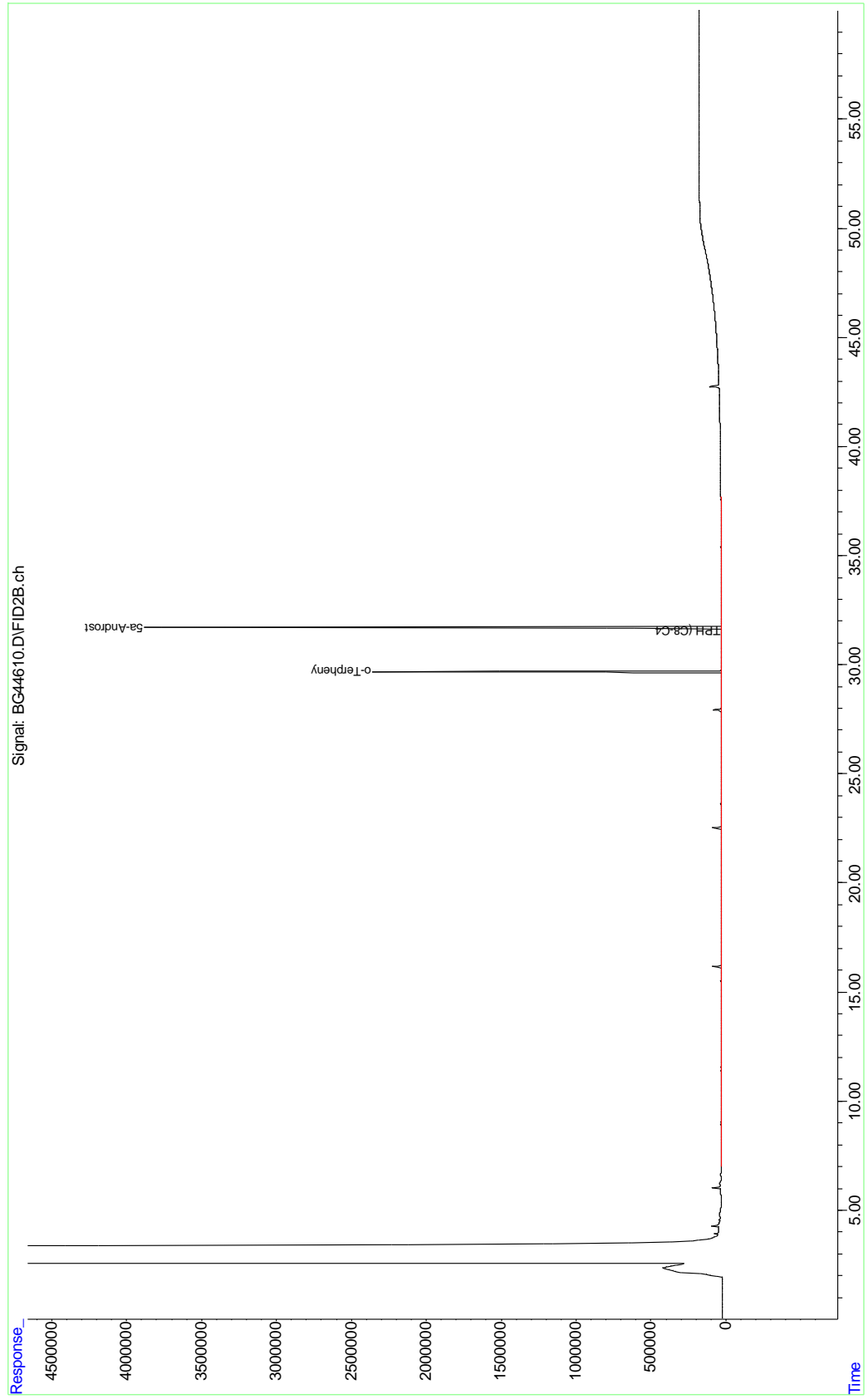
9

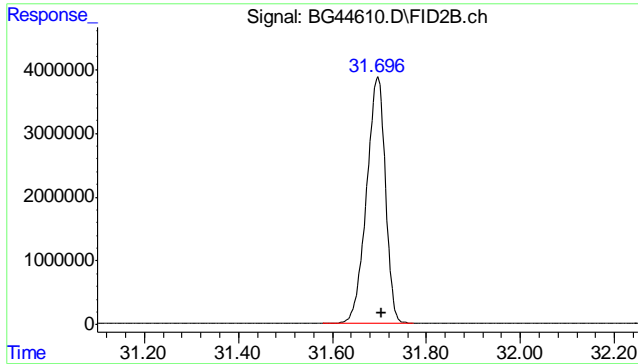
Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\data\BG140604.SEC\BG44610.D
Sample : MC30898-1
Misc : OP38384,GBG1703,35,,2,1
ALS Vial : 31 Sample Multiplier: 1
Acq On : 5 Jun 2014 11:17 am

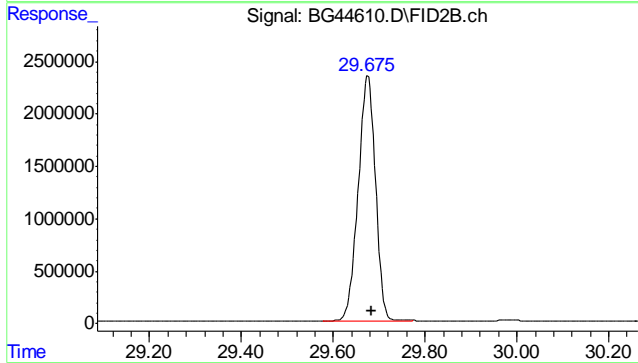
Operator: RubenP

Quant Time: Jun 11 11:47:50 2014
Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m
Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

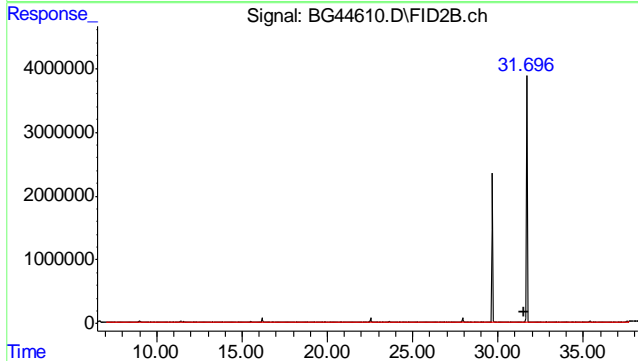




#1 5a-Androstane
 R.T.: 31.696 min
 Delta R.T.: -0.010 min
 Response: 107313786
 Conc: 50.00 µg/mL m



#2 o-Terphenyl
 R.T.: 29.675 min
 Delta R.T.: -0.010 min
 Response: 60955249
 Conc: 27.95 µg/mL m



#41 TPH (C8-C40)
 R.T.: 31.554 min
 Delta R.T.: 0.000 min
 Response: 39522228
 Conc: 19.43 µg/mL m

9.1.1
9

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\data\BG140604.SEC\BG44628.D
 Sample : MC30898-2
 Misc : OP38365,GBG1703,5.91,,,2,1
 ALS Vial : 39 Sample Multiplier: 1
 Acq On : 5 Jun 2014 9:33 pm Operator: RubenP

Quant Time: Jun 11 11:59:11 2014
 Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m
 Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

Compound	R.T.	Response	Conc Units

Internal Standards			
1) I 5a-Androstane	31.694	86298720	50.000 µg/mLm
System Monitoring Compounds			
2) S o-Terphenyl	29.672	32932085	18.776 µg/mLm
Spiked Amount 25.000		Recovery =	75.10%
Target Compounds			
41) H TPH (C8-C40)	31.554	265285446	162.180 µg/mLm
SemiQuant Compounds - Not Calibrated on this Instrument			

(f)=RT Delta > 1/2 Window

(m)=manual int.

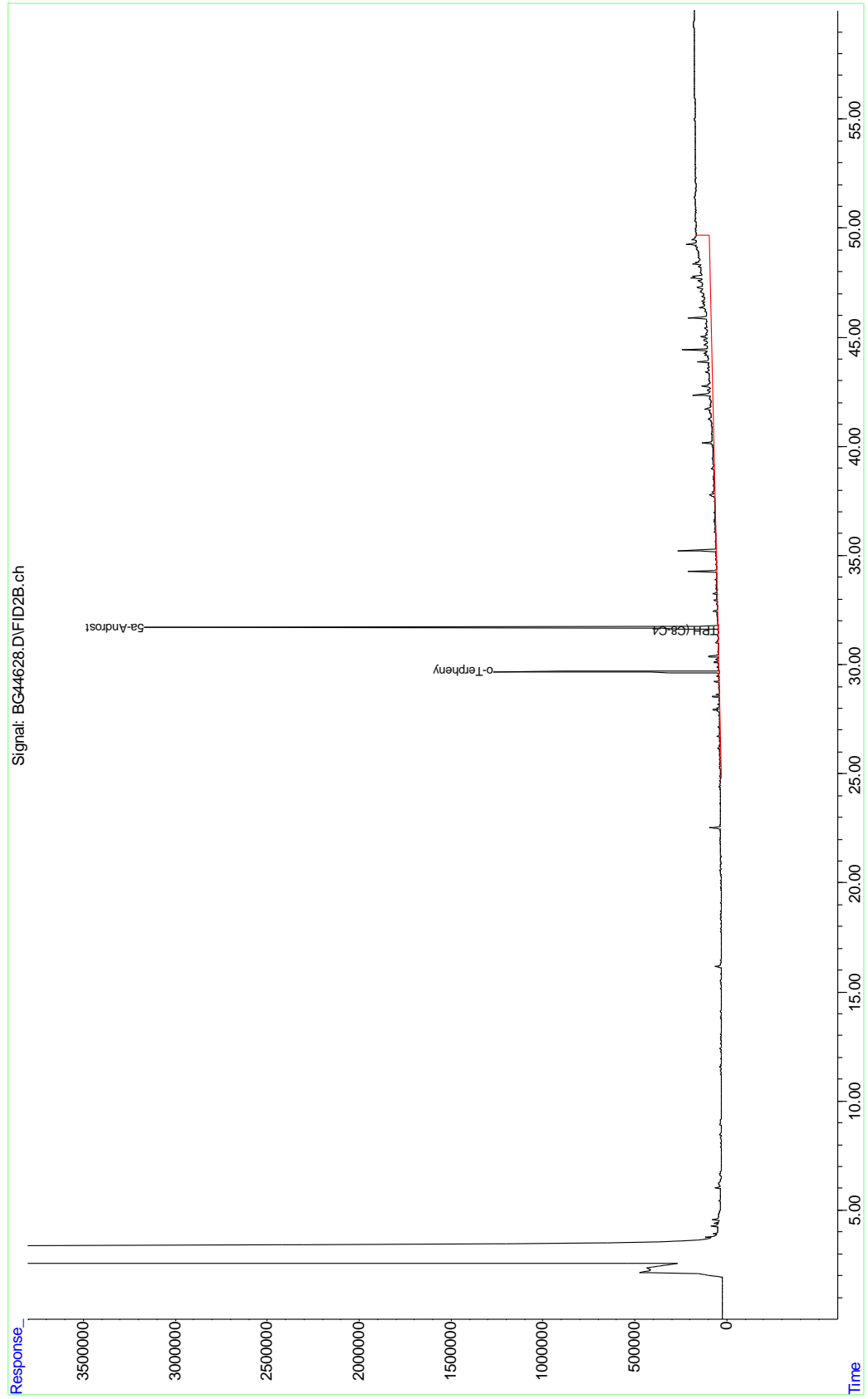
9.1.2
9

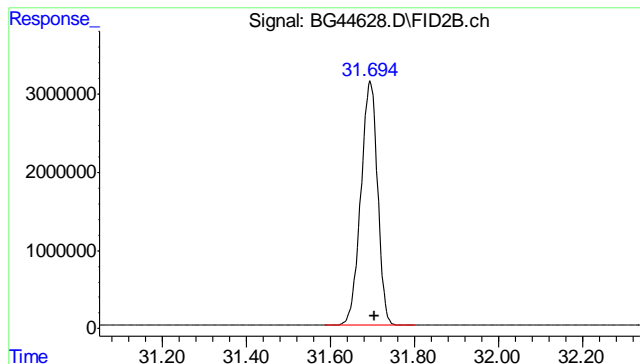
Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\data\BG140604.SEC\BG44628.D
Sample : MC30898-2
Misc : OP38365,GBG1703,5.91,,,2,1
ALS Vial : 39 Sample Multiplier: 1
Acq On : 5 Jun 2014 9:33 pm

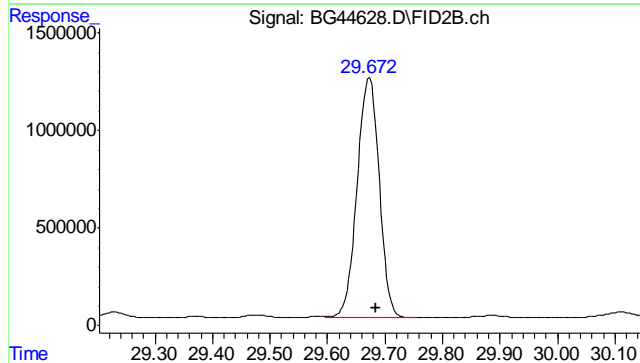
Operator: RubenP

Quant Time: Jun 11 11:59:11 2014
Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m
Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

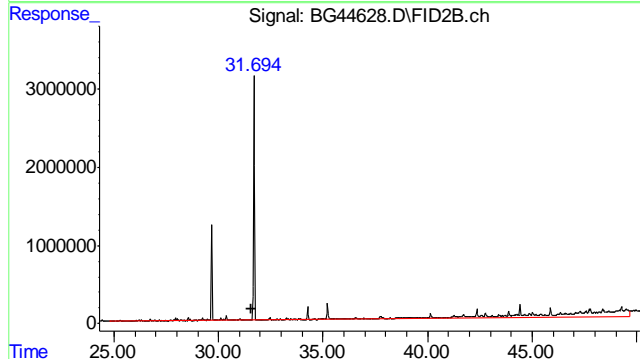




#1 5a-Androstane
 R.T.: 31.694 min
 Delta R.T.: -0.012 min
 Response: 86298720
 Conc: 50.00 µg/mL m



#2 o-Terphenyl
 R.T.: 29.672 min
 Delta R.T.: -0.013 min
 Response: 32932085
 Conc: 18.78 µg/mL m



#41 TPH (C8-C40)
 R.T.: 31.554 min
 Delta R.T.: 0.000 min
 Response: 265285446
 Conc: 162.18 µg/mL m

9.12
9

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\data\BG140604.SEC\BG44630.D

Sample : MC30898-3

Misc : OP38365,GBG1703,5.19,,,,,2,1

ALS Vial : 40 Sample Multiplier: 1

Acq On : 5 Jun 2014 10:41 pm

Operator: RubenP

Quant Time: Jun 11 11:58:38 2014

Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m

Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

Compound	R.T.	Response	Conc Units

Internal Standards			
1) I 5a-Androstane	31.695	88344204	50.000 µg/mLm
System Monitoring Compounds			
2) S o-Terphenyl	29.674	38072407	21.204 µg/mLm
Spiked Amount 25.000		Recovery =	84.82%
Target Compounds			
41) H TPH (C8-C40)	31.554	516966008	308.725 µg/mLm
SemiQuant Compounds - Not Calibrated on this Instrument			

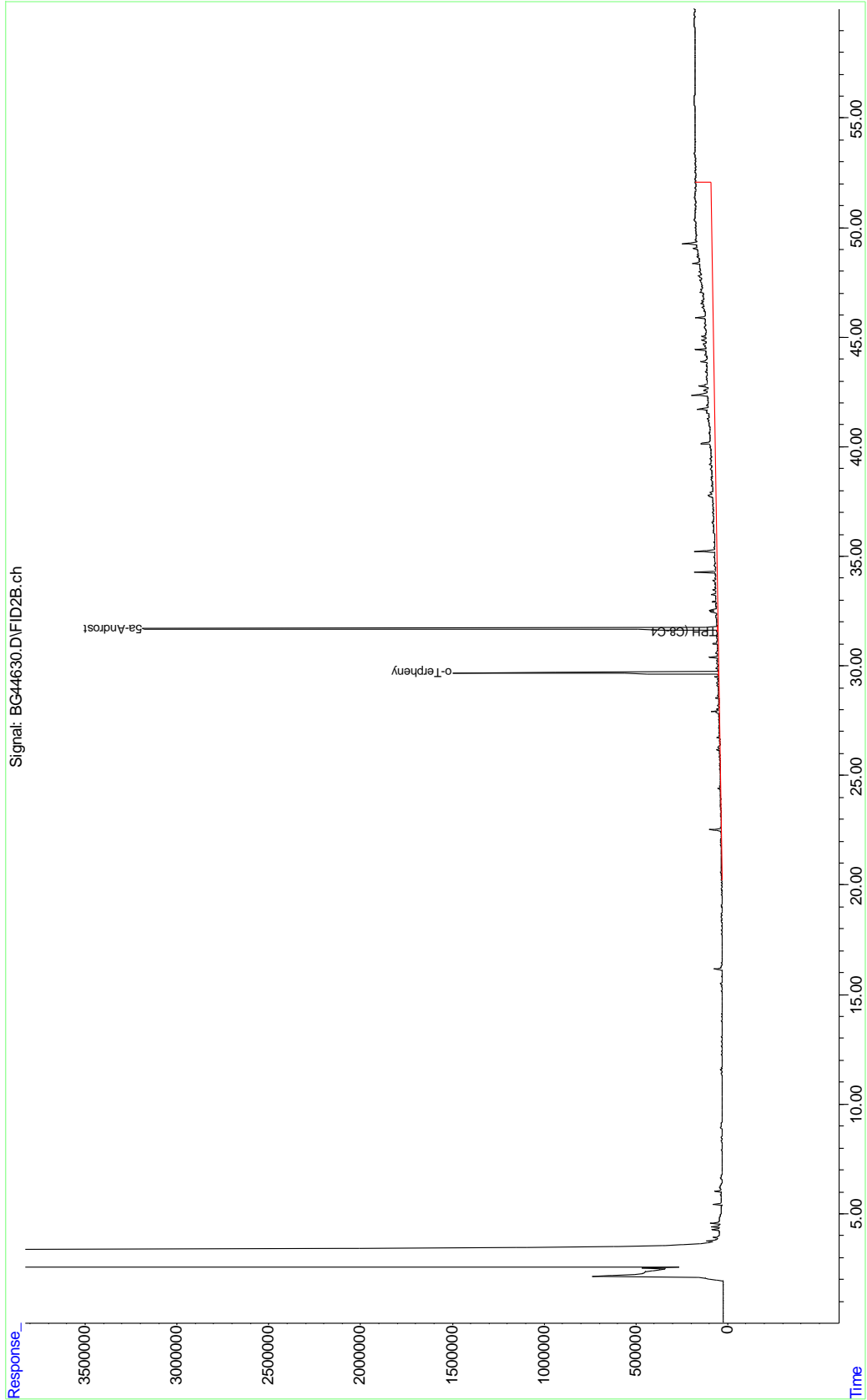
(f)=RT Delta > 1/2 Window

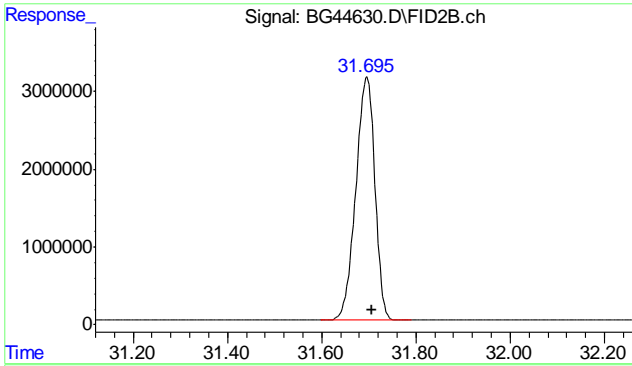
(m)=manual int.

Quantitation Report (QT Reviewed)

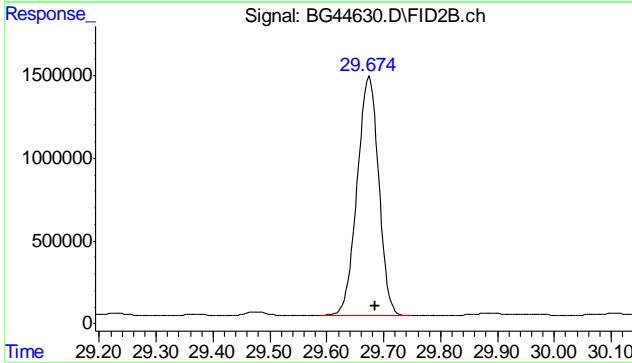
Data File: C:\msdchem\1\data\BG140604.SEC\BG44630.D
 Sample : MC30898-3
 Misc : OP38365,GBG1703,5.19,,,,,2,1
 ALS Vial : 40 Sample Multiplier: 1
 Acq On : 5 Jun 2014 10:41 pm Operator: RubenP

Quant Time: Jun 11 11:58:38 2014
 Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m
 Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

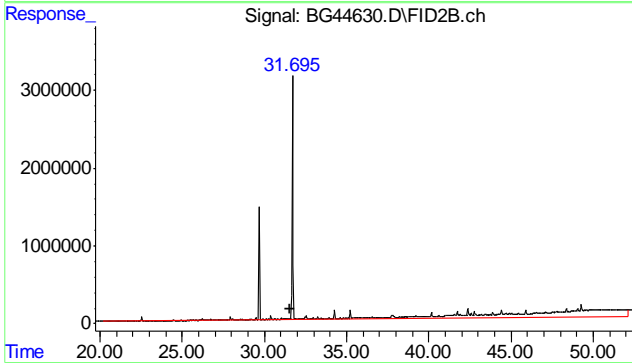




#1 5a-Androstane
 R.T.: 31.695 min
 Delta R.T.: -0.011 min
 Response: 88344204
 Conc: 50.00 µg/mL m



#2 o-Terphenyl
 R.T.: 29.674 min
 Delta R.T.: -0.011 min
 Response: 38072407
 Conc: 21.20 µg/mL m



#41 TPH (C8-C40)
 R.T.: 31.554 min
 Delta R.T.: 0.000 min
 Response: 516966008
 Conc: 308.72 µg/mL m

9.1.3
9

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\data\BG140604.SEC\BG44612.D
 Sample : MC30898-4
 Misc : OP38384,GBG1703,35,,,2,1
 ALS Vial : 32 Sample Multiplier: 1
 Acq On : 5 Jun 2014 12:27 pm Operator: RubenP

Quant Time: Jun 11 11:48:20 2014
 Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m
 Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

Compound	R.T.	Response	Conc Units

Internal Standards			
1) I 5a-Androstane	31.691	78816546	50.000 µg/mLm
System Monitoring Compounds			
2) S o-Terphenyl	29.672	43745777	27.309 µg/mLm
Spiked Amount 25.000		Recovery =	109.24%
Target Compounds			
41) H TPH (C8-C40)	31.554	26979912	18.060 µg/mLm
SemiQuant Compounds - Not Calibrated on this Instrument			

(f)=RT Delta > 1/2 Window

(m)=manual int.

9.1.4
9

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\data\BG140604.SEC\BG44612.D

Sample : MC30898-4

Misc : OP38384,GBG1703,35,,2,1

ALS Vial : 32 Sample Multiplier: 1

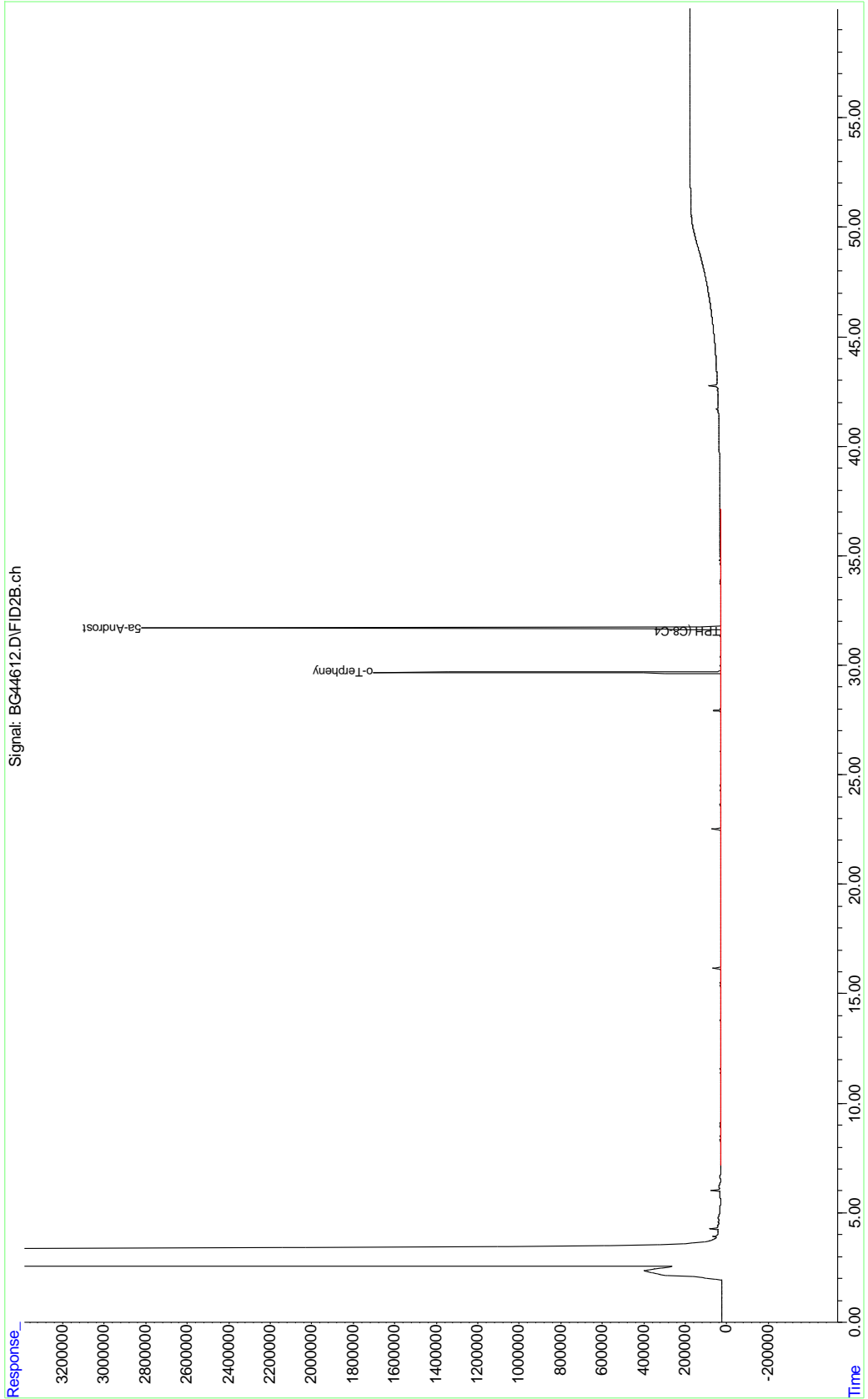
Acq On : 5 Jun 2014 12:27 pm

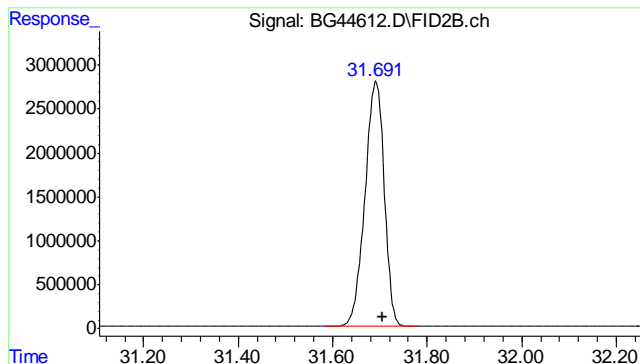
Operator: RubenP

Quant Time: Jun 11 11:48:20 2014

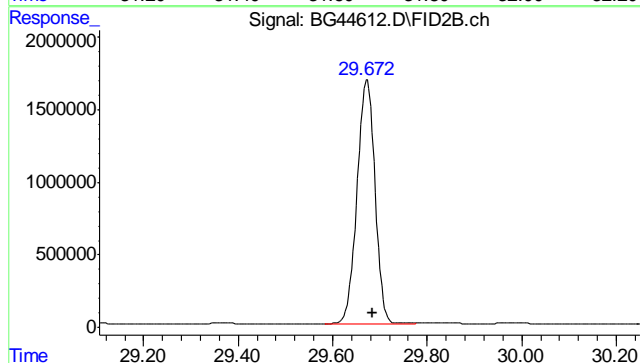
Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m

Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

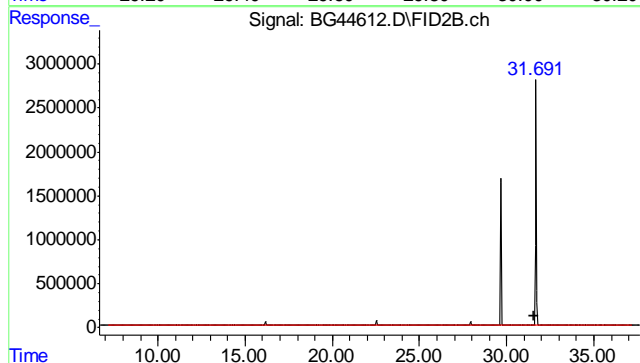




#1 5a-Androstane
 R.T.: 31.691 min
 Delta R.T.: -0.015 min
 Response: 78816546
 Conc: 50.00 µg/mL m



#2 o-Terphenyl
 R.T.: 29.672 min
 Delta R.T.: -0.013 min
 Response: 43745777
 Conc: 27.31 µg/mL m



#41 TPH (C8-C40)
 R.T.: 31.554 min
 Delta R.T.: 0.000 min
 Response: 26979912
 Conc: 18.06 µg/mL m

9.1.4
9

Data File: G:\1\data\BG140604\BG44581a.d
 Sample : OP38365-MB
 Misc : OP38365,GBG1702,5.0,,,2,1
 ALS Vial : 3 Sample Multiplier: 1
 Acq On : 4 Jun 2014 5:35 pm Operator: RubenP

Quant Time: Jun 06 13:35:32 2014
 Quant Method : G:\1\methods\BG130925ALK-Front.m
 Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

Compound	R.T.	Response	Conc Units

Internal Standards			
1) I 5a-Androstane	32.037	75087092	50.000 µg/mL
System Monitoring Compounds			
2) S o-Terphenyl	30.022	37602341	23.844 µg/mL
Spiked Amount 25.000		Recovery =	95.38%
Target Compounds			
41) H TPH (C8-C40)	29.763	30260222	20.971 µg/mLm
SemiQuant Compounds - Not Calibrated on this Instrument			

(f)=RT Delta > 1/2 Window

(m)=manual int.

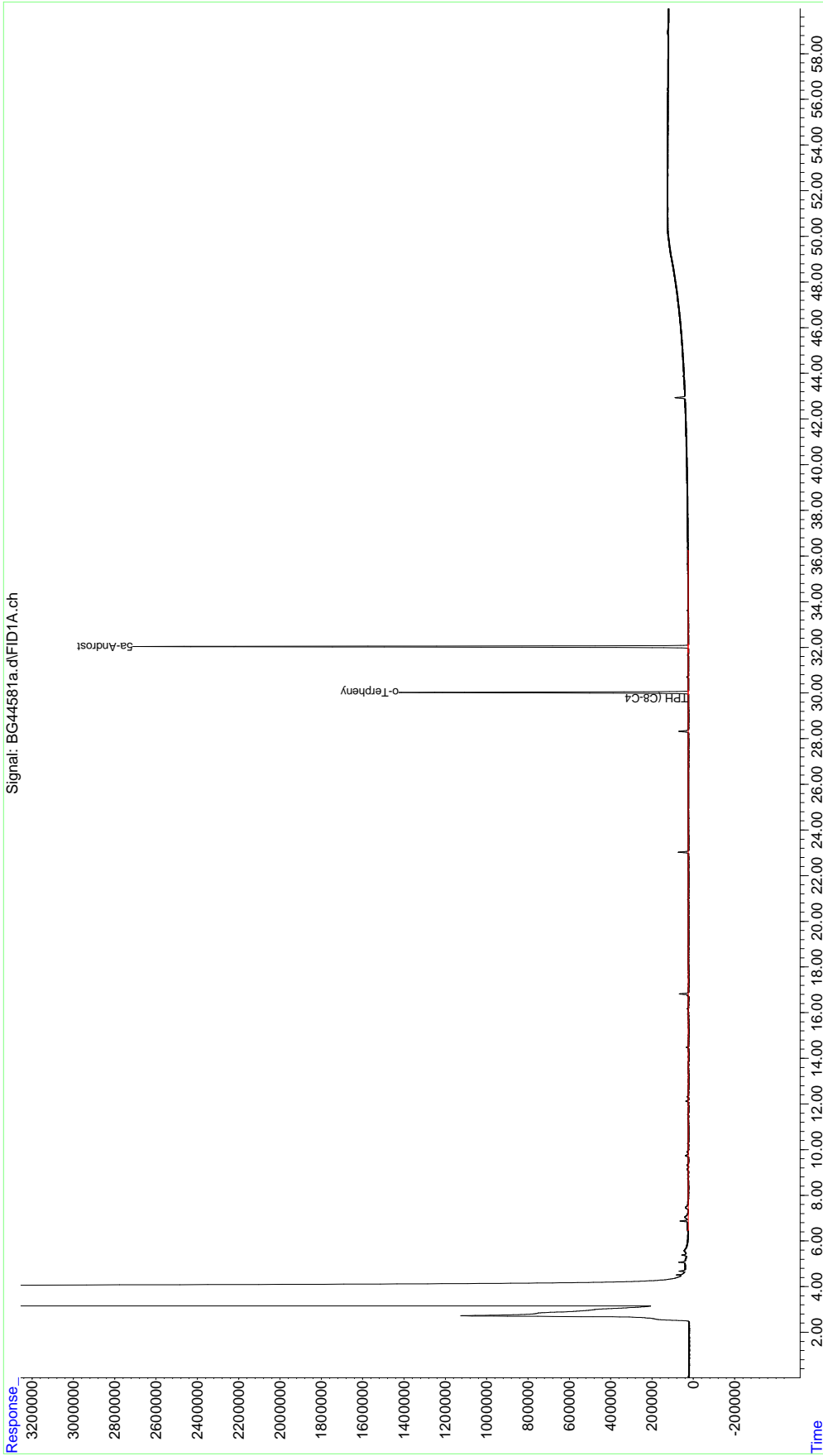
9.2.1
9

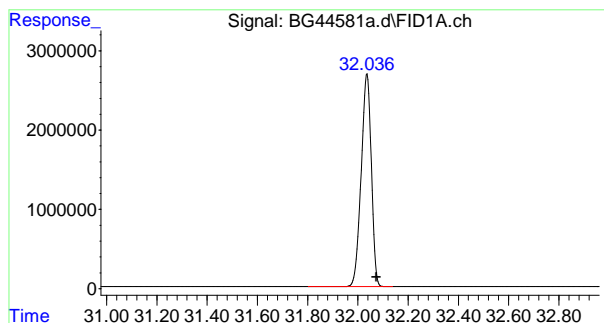
Quantitation Report (QT Reviewed)

Data File: G:\1\data\BG140604\BG44581a.d
Sample : OP38365-MB
Misc : OP38365,GBG1702,5.0,,2,1
ALS Vial : 3 Sample Multiplier: 1
Acq On : 4 Jun 2014 5:35 pm

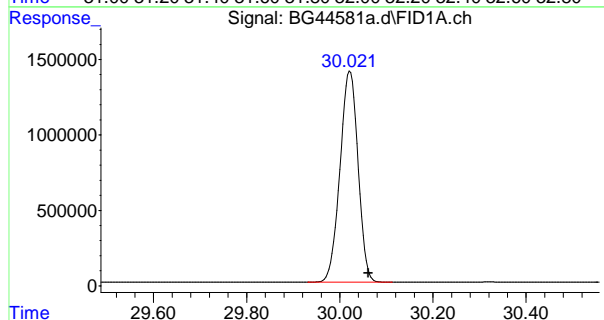
Operator: RubenP

Quant Time: Jun 06 13:35:32 2014
Quant Method : G:\1\methods\BG130925ALK-Front.m
Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

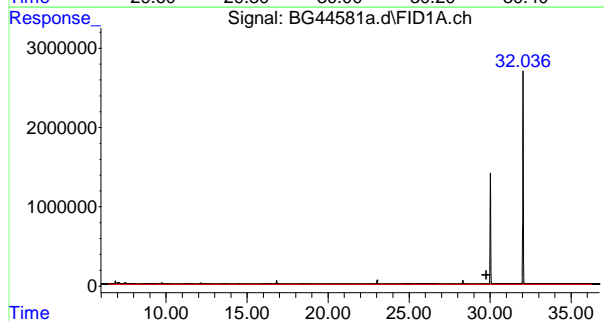




#1 5a-Androstane
 R.T.: 32.037 min
 Delta R.T.: -0.037 min
 Response: 75087092
 Conc: 50.00 µg/mL



#2 o-Terphenyl
 R.T.: 30.022 min
 Delta R.T.: -0.039 min
 Response: 37602341
 Conc: 23.84 µg/mL



#41 TPH (C8-C40)
 R.T.: 29.763 min
 Delta R.T.: 0.000 min
 Response: 30260222
 Conc: 20.97 µg/mL m

9.2.1
9

Manual Integrations
APPROVED
 283 of 285
 (compounds with "m" flag)
Ruben Parrilla
06/16/14 10:10

Data File: G:\1\data\BG140604.SEC\BG44604.D
 Sample : OP38384-MB
 Misc : OP38384,GBG1703,35,,,2,1
 ALS Vial : 28 Sample Multiplier: 1
 Acq On : 5 Jun 2014 7:47 am Operator: RubenP

Quant Time: Jun 11 11:49:14 2014
 Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m
 Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids

Compound	R.T.	Response	Conc Units

Internal Standards			
1) I 5a-Androstane	31.692	79141703	50.000 µg/mLm
System Monitoring Compounds			
2) S o-Terphenyl	29.672	42988169	26.726 µg/mLm
Spiked Amount 25.000		Recovery =	106.90%
Target Compounds			
41) H TPH (C8-C40)	31.554	38698989	25.798 µg/mLm
SemiQuant Compounds - Not Calibrated on this Instrument			

(f)=RT Delta > 1/2 Window

(m)=manual int.

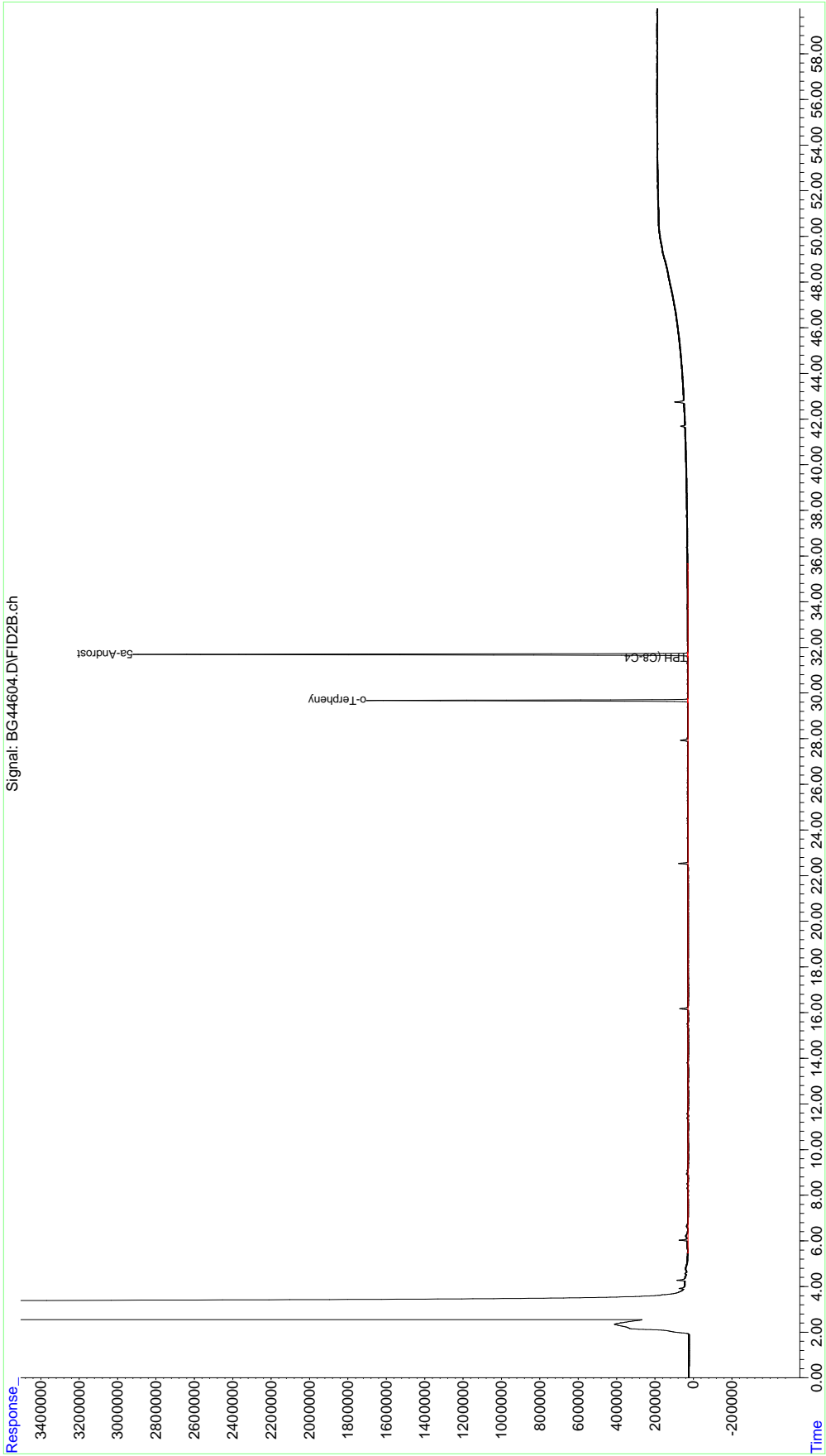
9.2.2
9

Quantitation Report (QT Reviewed)

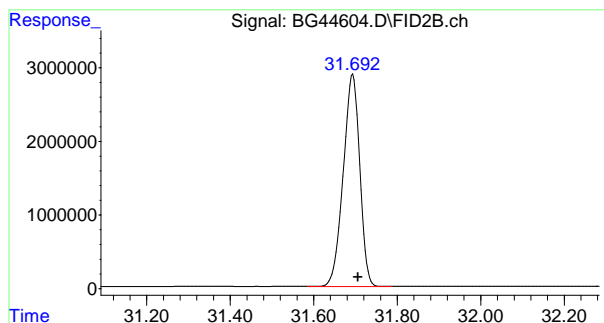
Data File: G:\1\data\BG140604.SEC\BG44604.D
Sample : OP38384-MB
Misc : OP38384,GBG1703,35,,2,1
ALS Vial : 28 Sample Multiplier: 1
Acq On : 5 Jun 2014 7:47 am

Operator: RubenP

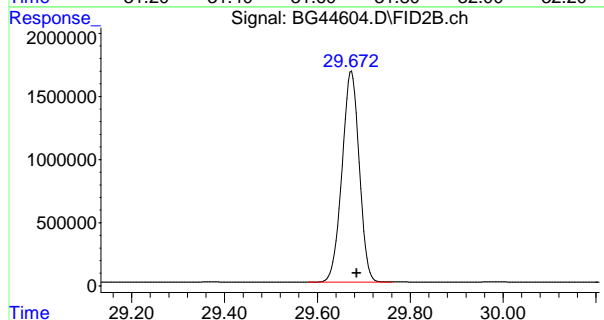
Quant Time: Jun 11 11:49:14 2014
Quant Method : G:\1\methods\BG140522ALK-Rear.m\BG140522ALK-Rear.m
Quant Title : n-C8 - n-C40 normal alkanes w/ isoprenoids



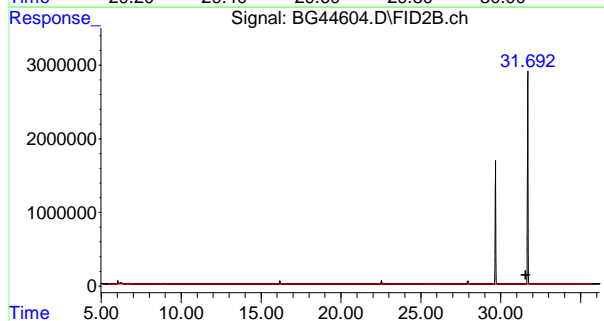
Signal: BG44604.D\FID2B.ch



#1 5a-Androstane
 R.T.: 31.692 min
 Delta R.T.: -0.013 min
 Response: 79141703
 Conc: 50.00 µg/mL m



#2 o-Terphenyl
 R.T.: 29.672 min
 Delta R.T.: -0.012 min
 Response: 42988169
 Conc: 26.73 µg/mL m



#41 TPH (C8-C40)
 R.T.: 31.554 min
 Delta R.T.: 0.000 min
 Response: 38698989
 Conc: 25.80 µg/mL m

9.2.2
9