INTERIM REMEDIAL MEASURES
CONSTRUCTION COMPLETION REPORT

211 FRANKLIN STREET
OLEAN, NEW YORK 14760

NYSDEC SITE NUMBER C905038

Prepared By: Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

Project No.: 4884S-13

Date: November 2014

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1.0 INTRODUCTION

This Interim Remedial Measures (IRM) Construction Completion Report (CCR) was prepared by Day Environmental, Inc. (DAY) for the IRM conducted at an approximate 5.79 acre parcel located at 211 Franklin Street, City of Olean, County of Cattaraugus, New York (Site). A Project Locus Map is provided as Figure 1. The IRM was described in the Remedial Investigation/Remedial Alternative Analysis (RI/RAA) Work Plan (the Work Plan) which is being implemented under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) as Site #C905038. The CCR was prepared by DAY in general accordance with *DER-10, Technical Guidance for Site Investigation and Remediation* dated May 2010 (DER-10).

This CCR summarizes the implementation of the remedial action undertaken as the IRM.

1.1 Objectives

The IRM objective was to remove one 10,000 gallon underground storage tank (UST) located adjacent to the southern edge of the building at the Site, to assess subsurface materials in the immediate vicinity of the UST for indications of impacts from petroleum and/or other contaminants, and to remove impacted soil from the subsurface (if encountered during removal of the UST). The location of the UST is shown on Figure 2. The IRM was intended to mitigate a possible source area in a timely manner prior to development of a remedy for the remainder of the Site.

1.2 Applicable Project Standards, Criteria and Guidance

Applicable standards, criteria and guidance (SCG) values that were used for this IRM are outlined below:

- Appropriate SCO and other guidance as set forth in 6 NYCRR Part 375-3 Brownfield Cleanup Program dated December 14, 2006.
- Appropriate Soil Cleanup Levels (SCL) and other guidance as set forth in NYSDEC Policy CP-51/Soil Cleanup Guidance dated October 21, 2010.
- Guidelines referenced in the NYSDEC document titled "DER-10 Technical Guidance for Site Investigation and Remediation", May 2010.
- *Permanent Closure of Petroleum Tanks dated January 20* 1987 and modified July 19, 1998 and December 3, 2003

2.0 BACKGROUND

The Site is located in an industrial-use urban area in the Northwest Quadrant district of the City of Olean, Cattaraugus County, New York and is within the New York State Department of State (NYSDOS) Brownfield Opportunity Area (BOA) boundaries. The Site is bound to the north by Franklin Street followed by a parking lot, athletic field, and undeveloped land, to the east by vacant residential properties followed by a residential neighborhood, to the south by a railroad right-of-way (ROW) with a residential neighborhood beyond, and to the west by a railroad ROW with industrial properties beyond. The approximate 5.79 acre Site is developed with an approximate 280,000-square foot, two-story industrial building with a partial basement. The Site has been used for industrial purposes since at least 1882.

There are currently several USTs at the Site. However, the IRM addresses only a 10,000-gallon No. 2 fuel oil/diesel UST, installed in 1987, which has been empty and out-of-service for about 2 ½ years. The UST is currently registered as Tank No.2 under the NYSDEC Petroleum Bulk Storage (PBS) Site # 9-014605. Details regarding the registration and characteristics of Tank No. 2 are listed on the PBS Facility Information Report for Site # 9-014605, which is presented in Appendix A. [Note: A 10,000-gallon No. 2 fuel oil/diesel UST was reportedly removed in the late 1980s from the same location as Tank #2, but no documentation of the removal activities is available.]

3.0 SCOPE OF WORK

This section presents the scope of work implemented as part of the IRM. This work was completed in accordance with provisions and guidance outlined in the NYSDEC document titled *DER-10 Technical Guidance for Site Investigation and Remediation* dated May 2010, the NYDEC guidance document, *Permanent Closure of Petroleum Tanks dated January 20* 1987 and modified July 19, 1998 and December 3, 2003, and the City of Olean requirements. The activities conducted as part of the IRM are documented in the Underground Storage Tank Closure Report included in Appendix B.

The NYSDEC was notified of permanent closure of the UST on October 3, 2014 and the required form was submitted to the NYSDEC Petroleum Bulk Storage (PBS) project manager on November 12, 2014 (a copy of the form is included in Appendix C). The required Tank Removal Operating Permit application was submitted to the City of Olean on October 6, 2014 (a copy of the permit is included in Appendix D).

The site-specific Health and Safety Plan (HASP) and Quality Assurance Project Plan (QAPP) were implemented as appropriate during the IRM activities. The Community Air Monitoring Program (CAMP), as described in the site-specific HASP, was also implemented during excavation activities.

Prior to completing intrusive work, a utility stakeout was requested from Dig Safely New York for identification and clearance of buried Site utilities (#10034-190-015).

3.1 UST Removal

On October 14, 2014, Richard Peck Construction (RPC) exposed the 10,000-gallon UST and associated piping located adjacent to the southern edge of the building at the Site. Once the tank was exposed, New York Environmental Technologies, Inc. of Rochester, NY (NYE Tech) removed the residual fuel oil (i.e., approximately 80 gallons of product) from the UST using a vacuum truck. Once the contents were removed, NYE Tech drained and flushed the product supply and return piping, washed the interior of the UST, and pumped out the remaining liquids from the bottom of the UST.

NYE Tech displaced flammable vapors from the interior of the UST by introducing nitrogen gas into the UST until the concentration of flammable vapors was 10-20% of the Lower Explosive Limit (LEL).

After the flammable vapor displacement was completed, RPC used an excavator to complete the excavation around the perimeter of the tank. A DAY representative monitored and documented the work completed, made visual observations of the soil as it was excavated, and screened portions of the excavated soil with a photoionization detector (PID). Based on field observations, there was no evidence of impacts or PID readings greater than 0.0 parts per million (ppm) in the ambient air above the soil samples when screened. The excavated soil was stockpiled on poly sheeting for potential re-use as backfill. The resulting excavation area was approximately 30 feet east-west by 17 feet north-south and ranged between 11 feet below ground surface (bgs) and 14 feet bgs in depth. The approximate areal extent of the excavation is depicted on Figure 2.

Following removal of the UST from the subsurface, it was observed for evidence of holes, cracks, corrosion, etc. and was observed to be in good condition with no evidence of leakage. Photographs of the condition of the UST after removal are provided in the photograph log included in Appendix E.

After the tank was removed, RPC collected samples of soil from the excavation floor and sidewalls using the excavator bucket. A DAY representative observed the soil samples for evidence of impact (i.e., staining, petroleum type odors, free product, etc.) and portions of the samples were screened with a PID. Based on field observations, there was no evidence of impacts or PID readings greater than 0.0 parts per million (ppm) in the ambient air above the soil samples when screened. A log of the excavation area is provided in Attachment F. [Note: groundwater was not encountered during the excavation activities described above. Based on measurements collected from monitoring well MW-D (i.e., located approximately feet to the northeast of the excavation area) on September 30, 2014, the depth to groundwater in the vicinity of the excavation area was approximately 23 feet bgs.]

Confirmatory sampling was conducted by a DAY representative in accordance with the procedures outlined in Section 3.11 of the QAPP and Section 5.5 of DER-10. Because no evidence of impacts to subsurface materials were observed in the excavation, the confirmatory sampling procedure consisted of collecting discrete soil samples from the excavation floor spaced approximately 5 feet apart along the approximate centerline of the UST, using the excavator bucket . The approximate sample locations are depicted on Figure 2.

The six confirmatory soil samples collected were submitted to Spectrum Analytical, Inc. in Agawam, MA (Spectrum). Spectrum is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory. Each soil sample was tested for Target Compound List (TCL) volatile organic compounds (VOCs) plus tentatively identified compounds (TICs) using United States Environmental Protection Agency (USEPA) Method 8260, TCL semi-volatile organic compounds (SVOCs) plus TICs using USEPA Method 8270 and target analyte list (TAL) Metals (various methods). The analytical laboratory data package prepared by Spectrum is provided in Appendix G.

The results of the analytical testing are summarized on Table 1, as well as a comparison of the results to the Restricted Commercial Soil Cleanup Objectives (SCOs).

- VOCs were not detected in the six confirmatory soil samples at concentrations above the detection limits reported by the analytical laboratory.
- One SVOC, di-n-butylphthlate, was detected in each of the six confirmatory soil samples, at concentrations ranging between 0.29 ppm [i.e., sample 211 TR-1 (13)] and 0.48 ppm [i.e., sample (211) TR-4 (11)]. In addition, the SVOC bis(2-ethylhexyl)phthalate was detected in soil sample (211) TR-1(13) at an estimated concentration of 0.093 ppm and the SVOC di-n-butylphthalate was detected in soil sample (211) TR-4(11) at an estimated concentration of 0.097 ppm. However, there are no applicable Restricted Commercial SCOs for these SVOC compounds.
- Twenty-two metals were detected in one or more of the six confirmatory soil samples. Only the arsenic concentrations detected in confirmatory samples (211) TR-2 (11), (211) TR-4

(11), (211) TR-5 (11), and (211) TR-6 (14) (i.e., 21.9 ppm, 28.1 ppm, 21.3 ppm, and 45.7 ppm, respectively) exceed the applicable Restricted Commercial SCO of 16 ppm.

3.2 Backfill and Disposal

Upon completion of the UST removal and subsurface evaluation activities, the soil which was stockpiled during the excavation activities was used to backfill the UST excavation. The remainder of the excavation was backfilled with imported aggregate material provided by RPC, and obtained from Birch Run Gravel Pit located at 4581 Lower Birch Run Road, Olean, New York. Birch Run Gravel Pit is a New York State Department of Transportation (NYSDOT)-approved source. Prior to obtaining the imported backfill material, RPC provided analytical laboratory test data for soil samples collected from the Birch Run Gravel Pit. These soil samples were collected by KT Redevelopment LLC on September 12, 2014 and submitted for testing to Test America Laboratories, Inc. for the Olean Redevelopment Property (i.e., NYDEC BCP Site No.'s C905031, C905032, and C905033). The analytical laboratory data report provided by RPC is included in Appendix H.

The liquids generated during the UST preparation were collected and ultimately transported by NYE Tech to Industrial Oil Tank Service Corporation in Oriskany, New York for disposal. The waste manifest for the disposal of the liquids is included in Appendix I.

The UST was constructed of fiberglass coated steel; therefore, on November 7, 2014 the tank was transported off-site by RPC to Ben Weitsman of Allegany (i.e., a scrap metal processing facility) and recycled for scrap steel. The documentation of the tank recycling is included in Appendix J.

No additional material (i.e., soil) removed during the tank removal activities required disposal.

4.0 ACRONYMS

BCP	Brownfield Cleanup Program
bgs	Below the Ground Surface
BOA	Brownfield Opportunity Area
CCR	Construction Completion Report
DAY	Day Environmental, Inc.
DER-10	NYSDEC document titled "DER-10 Technical Guidance for Site Investigation and Remediation", May 2010
ELAP	Environmental Laboratory Approval Program
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
LEL	Lower Explosive Limit
NYE Tech	New York Environmental Technologies, Inc.
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOS	New York State Department of State
NYSDOT	New York State Department of Transportation
PBS	Petroleum Bulk Storage
PID	Photoionization Detector
PPM	Parts Per Million
QAPP	Quality Assurance Project Plan
RI/RAA	Remedial Investigation/Remedial Alternatives Analysis
ROW	Right of Way
RPC	Richard Peck Construction
SCG	Standard, Criteria and Guidance
SCL	Soil Cleanup Levels
SCO	Soil Cleanup Objective
Site	211 Franklin Street, Olean, New York
Spectrum	Spectrum Analytical, Inc.
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
TIC	Tentatively Identified Compound
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound
Work Plan	Remedial Investigation/Remedial Alternative Analysis Work Plan

TABLE

Table 1

IRM Report
211 Franklin Street
Olean, New York

Summary of Detected SVOCs and Metals in mg/kg or ppm
Confirmatory Soil Samples

Parameter	Restricted Commercial Use SCO [1]	(211) TR-1 (13)	(211) TR-2 (11)	(211) TR-3 (11)	(211) TR-4 (11)	(211) TR-5 (11)	(211) TR-6 (14)
Semi-Volatile Organic Compounds (SVOCs)							
Bis (2-ethylhexyl) phthalate	NS	0.093 J	U	U	U	U	U
Butylbenzylphthalate	NS	U	U	U	0.097 J	U	U
Di-n-butylphthalate	NS	0.290 J	0.340 J	0.420	0.480	0.340 J	0.330 J
Metals							
Aluminum	NS	5,530	6,800	4,630	6,430	3,980	6,290
Antimony	NS	U	U	U	0.64 BN	0.76 N	0.48 BN
Arsenic	16	11.9 N*	21.9 N*	13.2 N*	28.1 N*	21.3 N*	45.7 N*
Barium	400	47.6 *	71.7 *	33.0 *	79.4 *	39.0 *	50.8 *
Beryllium	590	0.25 B	0.30	0.22	0.28	0.15 B	0.27
Cadmium	9.3	0.30	0.38 *	0.37 *	1.2 *	0.46 *	0.66 *
Calcium	NS	32,800	5,610	46,100	8,290	8,790	18,700
Chromium	1,500	6.7	7.8 *	5.1 *	8.4 *	4.9 *	8.6 *
Cobalt	NS	4.8	5.6 E	4.4 E	9.8 E	4.0 E	5.8 E
Copper	270	40.2	45.5 *	61.7 *	147 *	42.3 *	47.4 *
Iron	NS	13,700	17,100	12,100	30,500	13,200	23,100
Lead	1,000	13.3	14	12.0	44.1	21.9	13.3
Magnesium	NS	2,940	2,620	4,020	2,920	2,390	2,780
Manganese	10,000	820 *	642 *	724 *	593 *	327 *	524 *
Mercury	2.8	0.023 B	0.028 B	0.017 B	0.018 B	0.027 B	0.023 B
Nickel	310	13.9 E	14.7 E	15.6 E	30.0 E	11.3 E	16.2 E
Potassium	NS	437	486	362	397	292	401
Selenium	1,500	1.4 B	U	1.3	U	U	U
Sodium	NS	33.2 B	41.7 B	43.9	33.9 B	39.3	46.0
Thallium	NS	0.33 B	U	U	U	U	U
Vanadium	NS	10.3	10.5	7.0	10.1	6.7	10.3
Zinc	10,000	78.3 N*E	98.0 N*E	120 N*E	174 N*E	101 N*E	112 N*E

Notes:

mg/kg - milligrams per kilogram or parts per million (ppm)

U - Not detected at concentration above the reported analytical laboratory detection limit

J - Concentration is an estimated value due to the compound was detected below the reporting limit

B - A "trace" concentration below the reporting limit and equal to or above the detection limit

E - An estimated concentration due to the presence of interferences, as determined by the serial dilution analysis

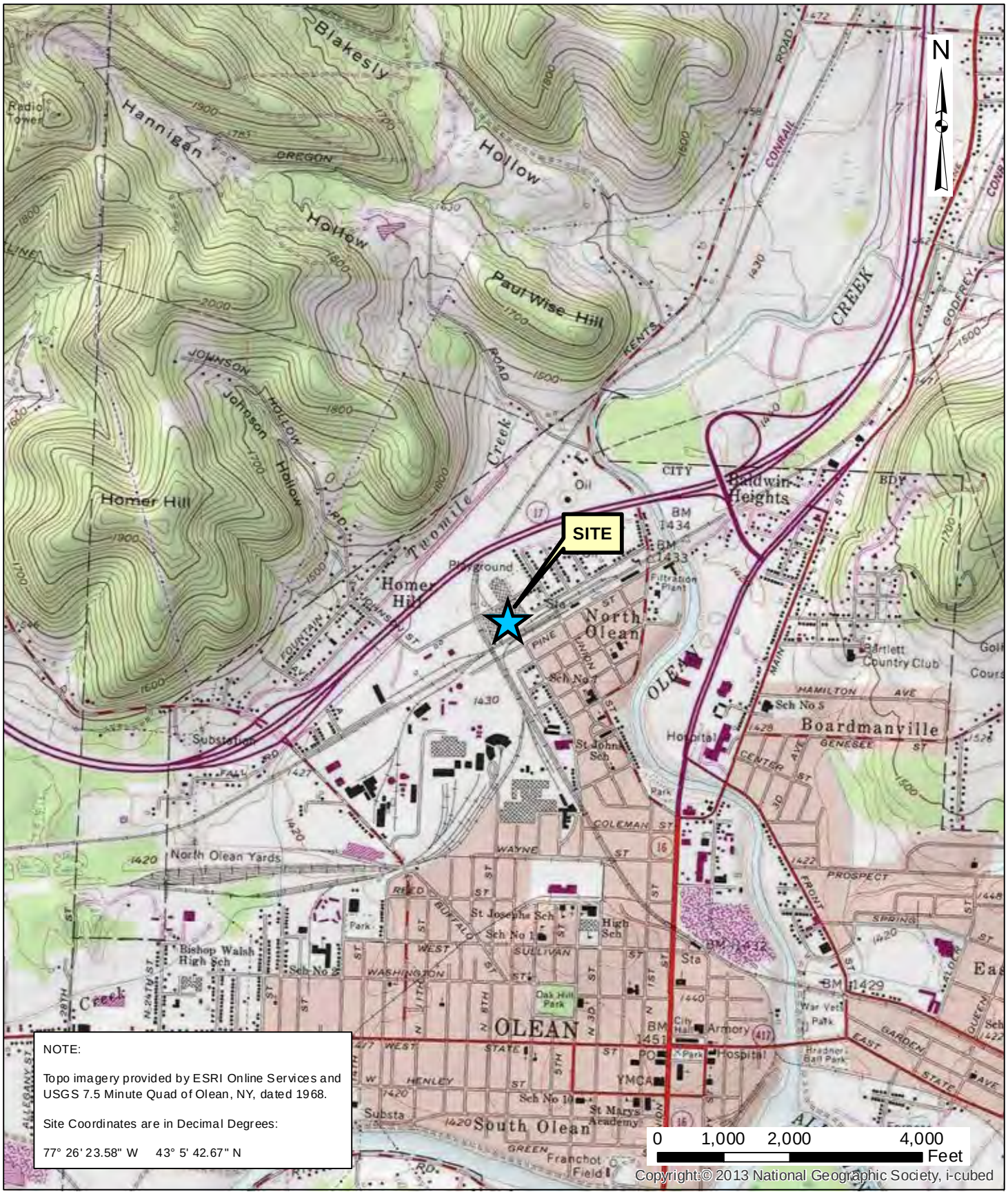
N - The matrix spike recovery for the parameter falls outside of the control limit

* - Relative Percent Difference for duplicate analyses is outside of the control limit

NS - No SCO established for this parameter

[1] Soil Cleanup Objective (SCO) for Restricted Commercial Use as referenced in 6 NYCRR Part 375 dated 12/14/06 and CP-51 dated October 21, 2010.
Shaded concentration indicates an exceedance of the Restricted Commercial Use SCO.

FIGURES



NOTE:

Topo imagery provided by ESRI Online Services and USGS 7.5 Minute Quad of Olean, NY, dated 1968.

Site Coordinates are in Decimal Degrees:

77° 26' 23.58" W 43° 5' 42.67" N

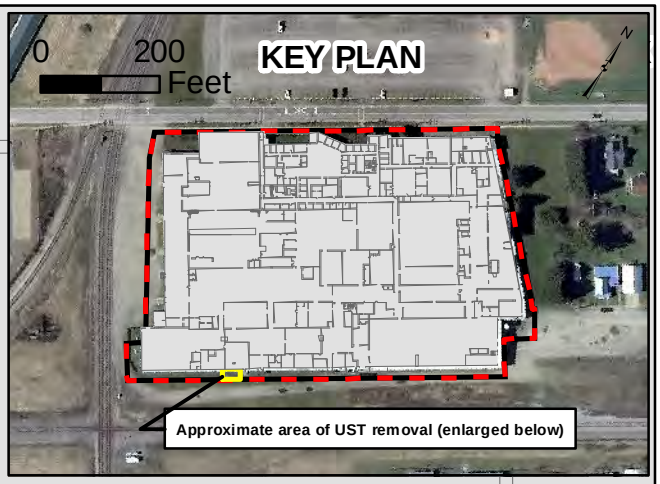
Document Path: E:\GIS\GIS Mapping\4884S-13\Sdep\211Franklin\4884S-4.1- RI_RAA_Locus_211_Franklin.mxd

Last Date Saved: 05 Nov 2013

Date: 11-13-2014	day **DAY ENVIRONMENTAL, INC.** **Environmental Consultants** **Rochester, New York 14606** **New York, New York 10170**	Project Title: 211 FRANKLIN STREET OLEAN, NEW YORK	Project No.: 4884S-13
Drawn By: CAH			FIGURE 1
Scale: AS NOTED		Drawing Title: Project Locus Map	

Legend

- Confirmatory soil sample collected October 14, 2014
- Approximate locatation of UST removed October 14, 2014
- Approximate tank excavation limits
- Limits of the 211 Franklin Street Site



Exterior building wall

TR-1 TR-2 TR-3 TR-4 TR-5 TR-6

0 2.5 5 10 Feet

NOTE:

Tank and confirmatory soil sample locations based on field measurements from known site features. These locations are to be considered approximate.

Date: 11-13-2014	day **DAY ENVIRONMENTAL, INC.** Environmental Consultants Rochester, New York 14606 New York, New York 10170	Project Title: 211 FRANKLIN STREET OLEAN, NEW YORK — IRM CONSTRUCTION COMPLETION REPORT	Project No.: 4884S-13
Drawn By: CPS		Drawing Title: UST and Confirmatory Sample Location Plan	FIGURE 2
Scale: AS NOTED			

Document Path: \\Smelt_optiplex\gis\GIS Mapping\4884S-13Solepo\211Franklin\4884S - 34 - Tank Removal and Sampling.mxd

Last Date Saved: 26 Nov 2014

APPENDIX A

PBS Facility Information Report for Site #9-014605

PBS # : 9-014605

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Petroleum Bulk Storage Program
Facility Information Report

Printed : 9/18/2013 PBS

pbsfacrpt_foil rpt

Site Information

SOLEPOXY, INC.
211 FRANKLIN STREET
OLEAN, NY 14760

Tax Map Information

Borough/Section:
Block:
Lot:

Site Owner Information

SOLEPOXY, INC.
211 FRANKLIN STREET
OLEAN, NY 14760

Mail Correspondent Information

SOLEPOXY, INC.
211 FRANKLIN STREET
OLEAN, NY 14760

Site Phone: (716) 372-6300

Town: Olean **County:** Cattaraugus

Class B (On-Site) Operator: SOLEPOXY, INC.

Class A (Primary) Operator:

Emergency Contact: ROBERT GROELE

Owner Type : Corporate/Commercial/Other

Emergency Phone: (716) 372-6300

ATTN: ROBERT GROELE

(716) 372-6300

Authorized Representative: JEFF BELT

Site Status : Active **Reg Expires :** 09/20/2015 **Cert Printed:** 09/08/2011 **Total Active Tanks :** 1 **Last Inspected:** 07/26/2011

Site Type: Manufacturing (Other than Chemical)/Processing **Cert Issued:** 09/20/2010 **Total Active Capacity :** 10,000 **Inspected By:** tjwalker

(2) Tank No	(3) Tank Loc	(4) Status	(5) Date Install	(5) Date Closed	(6) Capacity (gals)	(7) Product	(8) Tank Type	(9) Tank IP	(10) Tank EP	(11) Tank SC	(12) Tank LD	(13) Tank OP	(14) Tank SP	(15) Tank Disp	(16) Pipe Loc	(17) Pipe Type	(18) Pipe EP	(19) Pipe SC	(20) Pipe LD	(21) UDC	Last Test Date	Next Test Date	Tank Owner
2	5	2	12/01/1987		10,000	0001	06	03	04	04	01	04	01	02	02	06	04	00	09				
1	5	6	09/01/1970		10,000	0001	01	00	00	00	00	04		02	00	01	00						

(See Reverse Side or Last Page for Code Keys)

PETROLEUM BULK STORAGE APLICATION - SECTION B - TANK INFORMATION - CODE KEYS

Action (1)

1. Initial Listing
2. Add Tank
3. Close/Remove Tank
4. Information Correction
5. Recondition/Repair/Reline Tank

Tank Location (3)

1. Aboveground-contact w/soil
2. Aboveground-contact w/ impervious barrier
3. Aboveground on saddles, leggs, stilts, rack or cradle
4. Aboveground with 10% or more below ground
5. Underground
6. Aboveground in Subterranean Vault w/access for inspections

Status (4)

1. In-service
2. Temporarily out-of-service
3. Closed-Removed
4. Closed- In Place
5. Tank converted to Non-Regulated use

Products Stored (7)

Heating Oils: On-Site Consumption

0001. #2 Fuel Oil
0002. #4 Fuel Oil
0259. #5 Fuel Oil
0003. #6 Fuel Oil
0012. Kerosene
0591. Clarified Oil
2711. Biodiesel (Heating)
2642. Used Oil (Heating)

Heating Oils: Resale/ Redistribution

2718. #2 Fuel Oil
2719. #4 Fuel Oil
2720. #5 Fuel Oil
2721. #6 Fuel Oil
2722. Kerosene
2723. Clarified Oil
2724. Biodiesel (Heating)

Motor Fuels

0009. Gasoline
2712. Gasoline/Ethanol
0008. Diesel
2710. Biodiesel
0011. Jet Fuel
1044. Jer Fuel (Biofuel)
2641. Aviation Gasoline

Lubricating/Cutting Oils

0013. Lube Oil
0015. Motor Oil
1045. Gear/Spindle Oil
0010. Hydraulic Oil
0007. Cutting Oil
0021. Transmission Fluid
1836. Turbine Oil
0308. Petroleum Grease

Oils Used as Building Materials

2626. Asphaltic Emulsions
0748. Form Oil

Petroleum Spirits

0014. White/Mineral Spirits
1731. Naptha

Mineral/Insulating Oils

0020. Insulating Oil (e.g., Transformer, Cable Oil)
2630. Mineral Oil

Waste/Used/Other Oils

0022 Waste/Used Oil
9999. Other-Please list:*

Crude Oil

0006. Crude Oil
0701. Crude Oil Fractions

Tank Type (8)

01. Steel/Carbon Steel/Iron
02. Galvanized Steel Alloy
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Tank in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Urethane Clad Steel
99. Other-Please list:*

Internal Protection (9)

00. None
01 Epoxy Liner
02. Rubber Liner
03. Fiberglass Liner (FRP)
04. Glass Liner
99. Other-Please list:*

External Protection (10/18)

00. None
01. Painted/Asphalt Coating
02. Original Sacrificial Anode
03. Original Impressed Current
04. Fiberglass
05. Jacketed
06. Wrapped (Piping)
07 Retrofitted Sacrificial Anode
08. Retrofitted Impressed Current
09. Urethane
99. Other-Please list:*

Tank Secondary Containment (11)

00. None
01. Diking (Aboveground Only)
02. Vault (w/access)
03. Vault (w/o access)
04. Double-Walled (Underground Only)
05. Synthetic Liner
06. Remote Impounding Area
07. Excavation Liner
09. Modified Double-Walled (Aboveground Only)
10. Impervious Underlayment (Aboveground Only)**
11. Double Bottom (Aboveground Only)**
12. Double-Walled (Aboveground Only)

Tank Leak Detection (12)

00. None
01. Interstitial Electronic Monitoring
02. Interstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
05. In-Tank System (Auto Tank Gauge)
06. Impervious Barrier/Concrete Pad (Aboveground Only)
99. Other-Please list:*

Overfill Protection (13)

00. None
01. Float Vent Valve
02. High Level Alarm
03. Automatic Shut-Off
04. Product Level Gauge (Aboveground Only)
05. Vent Whistle
99. Other-Please list:*

Spill Prevention (14)

00. None
01. Catch Basin
99. Other-Please list:*

Pumping/Dispensing Method (15)

00. None
01. Presurized Dispenser
02. Suction Dispenser
03. Gravity
04. On-Site Heating System (Suction)
05. On-Site Heating System (Supply/Return)
06. Tank-Mounted Dispenser
07. Loading Rack/Transfer Pump

Piping Location (16)

00. No Piping
01. Aboveground
02. Underground/On-ground
03. Aboveground/Underground Combination

Piping Type (17)

00. None
01. Steel/Carbon Steel/Iron
02. Galvanized Steel
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Encased in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Copper
11. Flexible Piping
99. Other-Please list:*

Piping Secondary Containment (19)

00. None
01. Diking (Aboveground Only)
02. Vault (w/access)
04. Double-Walled (Underground Only)
06. Remote Impounding Area
07. Trench Liner
12. Double-Walled (Aboveground Only)

Pipe Leak Detection (20)

00 None
01. Interstitial Electronic Monitoring
02. Insterstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
07. Pressurized Piping Leak Detector
09. Exempt Suction Piping
99. Other-Please list:*

Under Dispenser Containment (UDC) (21)

Check Box if Present

* If other, please list on a separate sheet including tank number,

** Each of these codes must be combined with code 01 or 06 to meet compliance requirements.

APPENDIX B

Underground Storage Tank Closure Report

UNDERGROUND STORAGE TANK
CLOSURE REPORT

Day Environmental Personnel on-site:	W. Batiste
Project #:	4884S-13
Date of Removal:	10-14-2014
Weather/Temperature:	Sunny ~70-80°F

1. PROPERTY LOCATION

Name of Facility:	Sol Epoxy, Inc.
Street:	211 Franklin Street
Town & State:	Olean, NY

2. REMOVAL CONTRACTOR

Contractor Name:	Richard Peck Construction
Worker Names:	Louis, Brian, Greg, Dave
Equipment Operators:	Louis (160 LC w/ 3'3" bucket)

3. CLIENT NAME AND PHONE #:	Sol Epoxy (Mark Wendel) 716-244-2941
4. NYSDEC NOTIFIED OF REMOVAL?	Yes
5. UNDERGROUND UTILITY STAKEOUT FILE#:	10034-190-015

6. TANK/PIPING DESCRIPTION:

Tank Dimensions:	27' long, 8' diameter

Take Pictures of each side of each tank

Tank Size:	10,000 gallons
Vol. of product left in tank:	2"
Tank Age:	~1985
Tank composition:	Steel with Fiberglass Coating

6. TANK/PIPING DESCRIPTON: (cont.)

External protection:	Fiberglass Coating
Holes in tank/piping:	None observed
Tank integrity/condition:	Strong integrity
Pitting/corrosion/scale:	Not observed
Condition of flanges	Good condition, intact, minor rust
Condition of Piping (e.g., fillport, ventpipe distribution lines, etc.):	Good condition, intact, minor rust
Secondary Containment:	None observed
Leak Detection:	None observed

7. DETERMINATION OF CONTAMINATION:

Evidence that tank had leaked?	None observed
Depth to bedrock:	Not encountered (depth unknown)
Depth to groundwater:	Not encountered (approx. 23’ bgs in vicinity)
Soil lithology (e.g., clay):	Coarse Sand and Gravel
Stained/discolored soils?	None observed
Petroleum odors from soils?	None observed
Peak PID readings on ambient headspace air above selected soil samples (ppm):	0.0 ppm
Background PID readings:	0.0 ppm

8. LAB ANALYSIS:

Samples collected?	Yes
Sample location(s):	Refer to Figure 2
Lab analysis	TCL VOCs +TICs /TCL SVOCs + TICs/ TAL Metals
Lab results:	Refer to Table 1 and Appendix G

9. TANK CLEANING/WASTE GENERATION:

Sludge in tank (gal.)	~75
Tank cleaning method:	Rinse/pump out
Vapors displacement method:	Nitrogen
Vol. of washwaters generated:	~50 gal.
Storage/staging of washwaters:	Pumped directly into a Vac Truck
Washwater & sludge disposal:	Refer to Appendix D
Tank cut up on-site:	No
Tank destination:	Ben Weitsman of Allegany (34 West Union St., Allegany, NY) – Disposal/Recycle
Contractor hauling tank:	Richard Peck Construction

10. PHOTOGRAPHS:

Photos of tank:	Refer to Appendix E
Photos of pit:	Refer to Appendix E
Photo showing tank location:	Refer to Appendix E

11. SPILL REPORT FILED? No – evidence of a spill not observed

12. FATE OF EXCAVATION:	
Filled/capped (e.g., gravel)	Filled
Dimensions of Excavation	30’ x 17’ x 11’
Peak PID Readings on East Wall and Depth	0.0 ppm
Peak PID Readings on West Wall and Depth	0.0 ppm
Peak PID Readings on South Wall and Depth	0.0 ppm
Peak PID Readings on North Wall and Depth	0.0 ppm
Security Fencing present overnight	Yes. Excavation partially backfilled on 10-14-14, and completed 10-15-2014
13. NEAREST BUILDING/UTILITY:	Facility exterior wall adjacent to NW
	Fire suppression piping to SE
14. WASTE CHARACTERIZATION OF SOIL	N/A
15. SOIL DISPOSAL	N/A

APPENDIX C

NYSDEC Pre-Work Notification for Bulk Storage (PBS or CBS) Tank Installation, Closing, Repair or Reconditioning

New York State Department of Environmental Conservation
Pre-Work Notification for Bulk Storage (PBS or CBS) Tank Installation, Closing, Repair, or Reconditioning

This form provides notice per 6 NYCRR Section 612.2(d) of the Petroleum Bulk Storage (PBS) Regulations, or 6 NYCRR Section 596.2(f) of the Chemical Bulk Storage (CBS) Regulations, to the Department of an upcoming substantial tank modification (tank installation, closing, repair, or reconditioning). Submit the completed form to the Department's Regional Office within 30 days prior to action for PBS and 3 days prior for CBS (unless immediate action is required per 596.2f of 6 NYCRR). **If the schedule for work changes you must notify the Department's Regional Office before work begins. Once the work is complete, the facility (property) owner is responsible for submitting a PBS or CBS application to the Department with the complete tank information including the date the action was completed.** The Owner is also responsible to ensure that all work is completed in compliance with the applicable PBS or CBS regulations (i.e., Parts 613/614 or 598/ 599). Any questions, call the Department's Regional Office. Information on the Chemical and Petroleum Bulk Storage Programs be found at: http://www.dec.ny.gov/chemical/287.html

Check Applicable Program: x PBS _____ CBS **Facility PBS or CBS Registration No.** 9-014605

Site Name: SOLEPOXY, INC.	Contractor: RICHARD L. PECK CONSTRUCITON
Site Address: 211 FRANKLIN STREET, OLEAN, NY 14706	Address: 63 S 7th St, Allegany, NY 14706
Site Address (cont):	Address(cont):
Site Contact: MARK WENDEL	Contact: RICHARD PECK
Phone Number: (716) 372-6300 Fax Number: (716) 972-1211	Phone Number: (716) 373-2006 Fax Number: (716) 372-3766
Email Address: mark.wendel@solepoxy.com	Email Address: rpeckco@localnet.com

Tank Number	Type of Action (Close & Remove, Close in Place, Repair/Recondition, Install)	Proposed Date (mm/dd/yy)	Tank Location (Aboveground or Underground)	Capacity (Gallons)	Spills/Leaks? (Yes/No w/Spill # if Yes)	Reason for Action
2	CLOSE AND REMOVE	10/14/14	UNDERGROUND	10,000	NO	INTERIM REMEDIAL MEAUSURE
						UNDER NYSDEC BCP SITE
						# C905038

I hereby certify under penalty of law that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name of Owner or Authorized Representative (print): MARK WENDEL Title: MAINTENANCE MANAGER

Signature _____ Date NOVEMBER 12, 2014

APPENDIX D

Tank Removal Operating Permit Application for City of Olean

t #:_____ Expires:_____

City of Olean
Code Enforcement Division

Olean Municipal Building, Rm 212
P.O. Box 668, 101 E. State St.
Olean, New York 14760
716-376-5683, 716-376-5707

Tank Removal Operating Permit Application

Gasoline, Fuel Oil, Diesel, Propane

Location of Tank(s): 211 FRANKLIN St., OLEAN, NY 14760 SOUTH WEST CORNER OF Bldg. **Date:** 10/06/14

Owner: SOLEPOLY Applicant: RICHARD L. Peck Construction Inc. *

Addr: 211 FRANKLIN St. Addr: 63 South 7th St.

OLEAN NY 14760 ALLEGANY, NY 14706

Phone: _____(h)_____(w)(716)373-2006(w)(716)372-3766(fax) *

Contractor: Name: RICHARD L. Peck Construction Inc. Phone: (716)373-2006

Address: 63 South 7th St., ALLEGANY NY 14706

Size of Tank(s): 10000 gallons (if known) **What they held:** #2 Fuel Oil (if known)

_____ _____

_____ _____

Expected date of removal: Tuesday Oct. 14, 2014

☐ **Site plan included with location and a sketch of site plan for tank removal(s).**

Description of Activity: CLEANING AND REMOVAL of tank

_____ / _____ _____ 10/06/2014

(Owner's signature) (date) Applicant's signature) (date)

RICHARD L. Peck

This application has been:

☐ APPROVED; ☐ DENIED by: _____ Date: _____

All applications must be submitted along with all required documentation as determined by the Code Enforcement office.

APPENDIX E

Photograph Log

Photograph 1. Orientation of tank inside excavation area

Photograph 2. Excavation area after tank removal

Photograph 3. West end of tank

Photograph 4. Top of the tank

Photograph 5. North end (top) of the tank

Photograph 6. East end of the tank.

Photograph 7. Bottom of the tank

Photograph 8. Side of the tank facing the building

Photograph 9. Side of the tank facing the railroad tracks

APPENDIX F

Test Pit Log

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13
Project Address: 211 Franklin Street
Olean, NY
DAY Representative: W. Batiste
Contractor: Richard Peck Construction
Equipment: 160 LC Excavator
Date: 10/14/2014
Test Pit Depth: 14'
Depth to Water: Not encountered

Test Pit TP-Tank Removal

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
				Brown coarse Sand, little Silt, some fine to medium Gravel, trace plastic sheeting, scrap metal debris, moist (FILL)	
1-	0.0				
2-	0.0		0.0		
3-	0.0				Top of UST
4-	0.0				
5-	0.0		0.0		
6-	0.0				
7-	0.0				
8-	0.0				
9-	0.0		0.0	…and fine to medium Gravel	
10-	0.0				
11-	0.0	X			Bottom of UST
12-	0.0		0.0		
13-					
14-	0.0	X			
				Test Pit not advanced further due to pit location and cave-ins	
15-					

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
4) NA = Not Available or Not Applicable

Test Pit TP-Tank Removal

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Appendix G

Analytical Laboratory Data Report
Confirmatory Samples

Report Date:
30-Oct-14 05:50

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

Day Environmental, Inc
1563 Lyell Avenue
Rochester, NY 14606

Work Order: N1943
Project : 211 Franklin Street
Project #:

Attn: Charles Hampton

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
N1943-01	(211) TR-1 (13)	Soil	14-Oct-14 14:20	16-Oct-14 11:45
N1943-02	(211) TR-2 (11)	Soil	14-Oct-14 15:35	16-Oct-14 11:45
N1943-03	(211) TR-3 (11)	Soil	14-Oct-14 15:25	16-Oct-14 11:45
N1943-04	(211) TR-4 (11)	Soil	14-Oct-14 15:15	16-Oct-14 11:45
N1943-05	(211) TR-5 (11)	Soil	14-Oct-14 15:05	16-Oct-14 11:45
N1943-06	(211) TR-6 (14)	Soil	14-Oct-14 14:55	16-Oct-14 11:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : 211 Franklin Street **SDG :** N1943

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
(211) TR-1 (13)	N1943-01	SW8260_LOW_S	SW8270_S		SW6010_S	
(211) TR-1 (13)	N1943-01				SW7471	
(211) TR-2 (11)	N1943-02	SW8260_LOW_S	SW8270_S		SW6010_S	
(211) TR-2 (11)	N1943-02				SW7471	
(211) TR-3 (11)	N1943-03	SW8260_LOW_S	SW8270_S		SW6010_S	
(211) TR-3 (11)	N1943-03				SW7471	
(211) TR-4 (11)	N1943-04	SW8260_LOW_S	SW8270_S		SW6010_S	
(211) TR-4 (11)	N1943-04				SW7471	
(211) TR-5 (11)	N1943-05	SW8260_LOW_S	SW8270_S		SW6010_S	
(211) TR-5 (11)	N1943-05				SW7471	
(211) TR-6 (14)	N1943-06	SW8260_LOW_S	SW8270_S		SW6010_S	
(211) TR-6 (14)	N1943-06				SW7471	

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : 211 Franklin Street **SDG :** N1943

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_LOW_S					
N1943-01C	SL	10/14/2014	10/16/2014	NA	10/21/2014
N1943-02C	SL	10/14/2014	10/16/2014	NA	10/21/2014
N1943-03C	SL	10/14/2014	10/16/2014	NA	10/21/2014
N1943-04C	SL	10/14/2014	10/16/2014	NA	10/21/2014
N1943-05C	SL	10/14/2014	10/16/2014	NA	10/21/2014
N1943-06C	SL	10/14/2014	10/16/2014	NA	10/21/2014

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : 211 Franklin Street **SDG :** N1943

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_LOW_S					
N1943-01C	SL	SW8260_LOW_S	NA	LOW	1
N1943-02C	SL	SW8260_LOW_S	NA	LOW	1
N1943-03C	SL	SW8260_LOW_S	NA	LOW	1
N1943-04C	SL	SW8260_LOW_S	NA	LOW	1
N1943-05C	SL	SW8260_LOW_S	NA	LOW	1
N1943-06C	SL	SW8260_LOW_S	NA	LOW	1

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSSEMI

Project Name : 211 Franklin Street **SDG :** N1943

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8270_S					
N1943-01A	SL	10/14/2014	10/16/2014	10/28/2014	10/28/2014
N1943-02A	SL	10/14/2014	10/16/2014	10/27/2014	10/27/2014
N1943-03A	SL	10/14/2014	10/16/2014	10/27/2014	10/27/2014
N1943-04A	SL	10/14/2014	10/16/2014	10/27/2014	10/27/2014
N1943-05A	SL	10/14/2014	10/16/2014	10/27/2014	10/27/2014
N1943-06A	SL	10/14/2014	10/16/2014	10/27/2014	10/27/2014

N1943

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1943

Client ID: DAY
Project: 211 Franklin Street
WO Name: 211 Franklin Street
Location: DAY_FRANKLIN,
Comments: N/A

Case:
SDG:
PO: 4884S-13

HC Due: 10/28/14
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQuIS_4_NYSDEC_v3
SAIRI_REGLIMIT3

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1943-01A	(211) TR-1 (13)	10/14/2014 14:20	10/16/2014	Soil	PMoist	/					O1
N1943-01A	(211) TR-1 (13)	10/14/2014 14:20	10/16/2014	Soil	SW8270_S	/ +TICs				Y	O1
N1943-01B	(211) TR-1 (13)	10/14/2014 14:20	10/16/2014	Soil	SW6010_S	/ TAL				Y	O1
N1943-01B	(211) TR-1 (13)	10/14/2014 14:20	10/16/2014	Soil	SW7471	/ TAL					O1
N1943-01C	(211) TR-1 (13)	10/14/2014 14:20	10/16/2014	Soil	SW8260_LOW_S	/ +TICs				Y	VOA
N1943-01D	(211) TR-1 (13)	10/14/2014 14:20	10/16/2014	Soil	SW8260_MED_S	/ +TICs		Y		Y	VOA
N1943-02A	(211) TR-2 (11)	10/14/2014 15:35	10/16/2014	Soil	PMoist	/					O1
N1943-02A	(211) TR-2 (11)	10/14/2014 15:35	10/16/2014	Soil	SW8270_S	/ +TICs				Y	O1
N1943-02B	(211) TR-2 (11)	10/14/2014 15:35	10/16/2014	Soil	SW6010_S	/ TAL				Y	O1
N1943-02B	(211) TR-2 (11)	10/14/2014 15:35	10/16/2014	Soil	SW7471	/ TAL					O1
N1943-02C	(211) TR-2 (11)	10/14/2014 15:35	10/16/2014	Soil	SW8260_LOW_S	/ +TICs				Y	VOA
N1943-02D	(211) TR-2 (11)	10/14/2014 15:35	10/16/2014	Soil	SW8260_MED_S	/ +TICs		Y		Y	VOA
N1943-03A	(211) TR-3 (11)	10/14/2014 15:25	10/16/2014	Soil	PMoist	/					O1
N1943-03A	(211) TR-3 (11)	10/14/2014 15:25	10/16/2014	Soil	SW8270_S	/ +TICs				Y	O1
N1943-03B	(211) TR-3 (11)	10/14/2014 15:25	10/16/2014	Soil	SW6010_S	/ TAL				Y	O1
N1943-03B	(211) TR-3 (11)	10/14/2014 15:25	10/16/2014	Soil	SW7471	/ TAL					O1
N1943-03C	(211) TR-3 (11)	10/14/2014 15:25	10/16/2014	Soil	SW8260_LOW_S	/ +TICs				Y	VOA
N1943-03D	(211) TR-3 (11)	10/14/2014 15:25	10/16/2014	Soil	SW8260_MED_S	/ +TICs		Y		Y	VOA
N1943-04A	(211) TR-4 (11)	10/14/2014 15:15	10/16/2014	Soil	PMoist	/					O1
N1943-04A	(211) TR-4 (11)	10/14/2014 15:15	10/16/2014	Soil	SW8270_S	/ +TICs				Y	O1

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1943

Client ID: DAY
Project: 211 Franklin Street
WO Name: 211 Franklin Street
Location: DAY_FRANKLIN,
Comments: N/A

Case:
SDG:
PO: 4884S-13

HC Due: 10/28/14
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQuIS_4_NYSDEC_v3
SAIRI_REGLIMIT3

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1943-04B	(211) TR-4 (11)	10/14/2014 15:15	10/16/2014	Soil	SW6010_S	/ TAL				Y	O1
N1943-04B	(211) TR-4 (11)	10/14/2014 15:15	10/16/2014	Soil	SW7471	/ TAL					O1
N1943-04C	(211) TR-4 (11)	10/14/2014 15:15	10/16/2014	Soil	SW8260_LOW_S	/ +TICs				Y	VOA
N1943-04D	(211) TR-4 (11)	10/14/2014 15:15	10/16/2014	Soil	SW8260_MED_S	/ +TICs		Y		Y	VOA
N1943-05A	(211) TR-5 (11)	10/14/2014 15:05	10/16/2014	Soil	PMoist	/					O1
N1943-05A	(211) TR-5 (11)	10/14/2014 15:05	10/16/2014	Soil	SW8270_S	/ +TICs				Y	O1
N1943-05B	(211) TR-5 (11)	10/14/2014 15:05	10/16/2014	Soil	SW6010_S	/ TAL				Y	O1
N1943-05B	(211) TR-5 (11)	10/14/2014 15:05	10/16/2014	Soil	SW7471	/ TAL					O1
N1943-05C	(211) TR-5 (11)	10/14/2014 15:05	10/16/2014	Soil	SW8260_LOW_S	/ +TICs				Y	VOA
N1943-05D	(211) TR-5 (11)	10/14/2014 15:05	10/16/2014	Soil	SW8260_MED_S	/ +TICs		Y		Y	VOA
N1943-06A	(211) TR-6 (14)	10/14/2014 14:55	10/16/2014	Soil	PMoist	/					O1
N1943-06A	(211) TR-6 (14)	10/14/2014 14:55	10/16/2014	Soil	SW8270_S	/ +TICs				Y	O1
N1943-06B	(211) TR-6 (14)	10/14/2014 14:55	10/16/2014	Soil	SW6010_S	/ TAL				Y	O1
N1943-06B	(211) TR-6 (14)	10/14/2014 14:55	10/16/2014	Soil	SW7471	/ TAL					O1
N1943-06C	(211) TR-6 (14)	10/14/2014 14:55	10/16/2014	Soil	SW8260_LOW_S	/ +TICs				Y	VOA
N1943-06D	(211) TR-6 (14)	10/14/2014 14:55	10/16/2014	Soil	SW8260_MED_S	/ +TICs		Y		Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Agnes R Huntley

Sample Transmittal Documentation

N1943

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Day Environmental, Inc.
1563 Lyell Avenue
Rochester, NY 14606

Telephone #: (585) 454-0210
Project Mgr: C. Hampton

Invoice To: SAME

P.O No.: _____ Quote/RQN: _____

Project No: 48845-13
Site Name: 211 Franklin St.
Location: Olean State: NY
Sampler(s): WDB

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=_____ X2=_____ X3=_____

N1943 G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	List Preservative Code below: 7	9	Analysis: NYSDEC AIR LIST 8260 + TICS	8260 + TICS	8270 + TICS	TAL Metals	Check if chlorinated
01	(211) TR-1 (13')	10/14/14	14:20	G	So	3	3					X	X	X	X	☐
02	(211) TR-2 (11')	10/14/14	15:35	G	So	3	3					X	X	X	X	☐
03	(211) TR-3 (11')	10/14/14	15:25	G	So	3	3					X	X	X	X	☐
04	(211) TR-4 (11')	10/14/14	15:15	G	So	3	3					X	X	X	X	☐
05	(211) TR-5 (11')	10/14/14	15:05	G	So	3	3					X	X	X	X	☐
06	(211) TR-6 (14')	10/14/14	14:55	G	So	3	3					X	X	X	X	☐
																☐
																☐
																☐
																☐
																☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☒ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

10/15/14 13.0 IR-3

Relinquished by:	Received by:	Date:	Time:
	Nancy Struzen	10/15/14	11:00
Nan Struzen		10/15/14	4:46
		10/16/14	08:15
		10/16/14	11:45

Temp °C: Observed 7.5c; Correction Factor; Corrected; IR ID #

☒ EDD format: NYSDEC EQUIS
☒ E-mail to: champton@daymail.net

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

Received By: WJL	Page 01 of 00
Reviewed By: KP	Log-in Date 10/16/2014
Work Order: N1943	Client Name: Day Environmental, Inc
Project Name/Event: 211 Franklin Street	

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
5. Airbill No. — Courier N/A
6. Sample Tags — Present / Absent
   Sample Tag Numbers — Listed / Not Listed on Chain-of-Custody
7. Sample Condition — Intact / Broken / Leaking
8. Cooler Temperature Indicator Bottle — Present / Absent

9. Cooler Temperature	7.5 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	10/16/2014
12. Time Received	11:45

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
N1943-01						F/M	
N1943-02						F/M	
N1943-03						F/M	
N1943-04						F/M	
N1943-05						F/M	
N1943-06						F/M	

IR Temp Gun ID:MT-74

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil — A= Air
UA = Unpreserved Aqueous — H = HCl
M = MeOH — E = Encore
N = NaHSO4 — F = Freeze

See Sample Condition Notification/Corrective Action Form — Yes / No

Rad OK — Yes / No

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Day Environmental, Inc

Project: 211 Franklin Street

Laboratory Workorder / SDG #: N1943

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

(211) TR-1 (13) (N1943-01C), recovery is above criteria for 1,2-Dichloroethane-d4 at 110% with criteria of (88-110).

(211) TR-5 (11) (N1943-05C), recovery is above criteria for 1,2-Dichloroethane-d4 at 111% with criteria of (88-110).

(211) TR-6 (14) (N1943-06C), recovery is above criteria for 1,2-Dichloroethane-d4 at 113% with criteria of (88-110).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-79617 in batch 79617, recovery is above criteria for Dichlorodifluoromethane at 138% with criteria of (35-135) and Methyl acetate at 144% with criteria of (70-130).

LCSD-79617 in batch 79617, recovery is above criteria for Dichlorodifluoromethane at 139% with criteria of (35-135) and Methyl acetate at 147% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/29/2014_____

Data Flag/Qualifiers (Page 1 of 2):

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as an aldol condensation by-product.

Data Flag/Qualifiers (Page 2 of 2):

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

L NYSDEC qualifier: Result is biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-79617	108	106	96	104				0
02	LCSD-79617	110	108	99	104				0
03	MB-79617	110	104	98	97				0
04	(211) TR-1 (13)	113	110 *	98	107				1
05	(211) TR-2 (11)	113	104	98	100				0
06	(211) TR-3 (11)	117	108	98	101				0
07	(211) TR-4 (11)	116	108	97	101				0
08	(211) TR-5 (11)	116	111 *	110	107				1
09	(211) TR-6 (14)	117	113 *	99	102				1

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(76-128)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(88-110)
VDMC3	(TOL) = Toluene-d8	(85-115)
VDMC4	(BFB) = Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som14.10.02.1616

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCS-79617 LCS Lot No.:

Date Extracted: 10/21/2014 Date Analyzed (1): 10/21/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	69.2434	138	*	35 - 135
Chloromethane	50.0000	0.0000	56.5201	113		50 - 130
Vinyl chloride	50.0000	0.0000	43.9354	88		60 - 125
Bromomethane	50.0000	0.0000	58.7597	118		30 - 160
Chloroethane	50.0000	0.0000	57.4149	115		40 - 155
Trichlorofluoromethane	50.0000	0.0000	49.4864	99		25 - 185
1,1-Dichloroethene	50.0000	0.0000	53.9391	108		65 - 135
Acetone	50.0000	0.0000	74.2812	149		20 - 160
Carbon disulfide	50.0000	0.0000	50.9614	102		45 - 160
Methylene chloride	50.0000	0.0000	50.9045	102		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	51.1854	102		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	51.2747	103		75 - 126
1,1-Dichloroethane	50.0000	0.0000	57.7256	115		75 - 125
2-Butanone	50.0000	0.0000	62.3411	125		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	53.5159	107		65 - 125
Bromochloromethane	50.0000	0.0000	51.9865	104		70 - 125
Chloroform	50.0000	0.0000	55.7445	111		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	54.8340	110		70 - 135
Carbon tetrachloride	50.0000	0.0000	49.3327	99		65 - 135
1,2-Dichloroethane	50.0000	0.0000	58.3068	117		70 - 135
Benzene	50.0000	0.0000	52.5209	105		75 - 125
Trichloroethene	50.0000	0.0000	50.1316	100		75 - 125
1,2-Dichloropropane	50.0000	0.0000	52.4770	105		70 - 120
Bromodichloromethane	50.0000	0.0000	57.0805	114		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	53.7646	108		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	50.7982	102		45 - 145
Toluene	50.0000	0.0000	51.7345	103		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	54.2905	109		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	57.9991	116		60 - 125
Tetrachloroethene	50.0000	0.0000	39.6115	79		65 - 140
2-Hexanone	50.0000	0.0000	52.5420	105		45 - 145
Dibromochloromethane	50.0000	0.0000	51.0635	102		65 - 130
1,2-Dibromoethane	50.0000	0.0000	50.0419	100		70 - 125
Chlorobenzene	50.0000	0.0000	47.1860	94		75 - 125
Ethylbenzene	50.0000	0.0000	44.5406	89		75 - 125
Xylene (Total)	150.0000	0.0000	139.3917	93		83 - 125
Styrene	50.0000	0.0000	48.2394	96		75 - 125
Bromoform	50.0000	0.0000	48.2279	96		55 - 135
Isopropylbenzene	50.0000	0.0000	44.6210	89		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	51.6053	103		55 - 130
1,3-Dichlorobenzene	50.0000	0.0000	46.0363	92		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	45.9472	92		70 - 125
1,2-Dichlorobenzene	50.0000	0.0000	46.9245	94		75 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	60.3715	121		40 - 135

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCS-79617 LCS Lot No.:

Date Extracted: 10/21/2014 Date Analyzed (1): 10/21/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2,4-Trichlorobenzene	50.0000	0.0000	49.2544	99		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	54.9829	110		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	49.2714	99		70 - 130
1,4-Dioxane	1000.0000	0.0000	801.2985	80		70 - 130
Cyclohexane	50.0000	0.0000	47.0151	94		70 - 130
Methyl acetate	50.0000	0.0000	72.1097	144	*	70 - 130
Methylcyclohexane	50.0000	0.0000	43.0384	86		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 51 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCSD-79617 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	69.7138	139	*	1		40	35 - 135
Chloromethane	50.0000	59.5601	119		5		40	50 - 130
Vinyl chloride	50.0000	45.0510	90		2		40	60 - 125
Bromomethane	50.0000	58.8886	118		0		40	30 - 160
Chloroethane	50.0000	55.5975	111		4		40	40 - 155
Trichlorofluoromethane	50.0000	50.1989	100		1		40	25 - 185
1,1-Dichloroethene	50.0000	51.9714	104		4		40	65 - 135
Acetone	50.0000	64.4028	129		14		40	20 - 160
Carbon disulfide	50.0000	46.7914	94		8		40	45 - 160
Methylene chloride	50.0000	51.2342	102		0		40	55 - 140
trans-1,2-Dichloroethene	50.0000	50.8482	102		0		40	65 - 135
Methyl tert-butyl ether	50.0000	53.2793	107		4		40	75 - 126
1,1-Dichloroethane	50.0000	55.4733	111		4		40	75 - 125
2-Butanone	50.0000	62.3493	125		0		40	30 - 160
cis-1,2-Dichloroethene	50.0000	50.6147	101		6		40	65 - 125
Bromochloromethane	50.0000	51.8990	104		0		40	70 - 125
Chloroform	50.0000	56.3442	113		2		40	70 - 125
1,1,1-Trichloroethane	50.0000	56.2441	112		2		40	70 - 135
Carbon tetrachloride	50.0000	50.5465	101		2		40	65 - 135
1,2-Dichloroethane	50.0000	59.8259	120		3		40	70 - 135
Benzene	50.0000	52.6238	105		0		40	75 - 125
Trichloroethene	50.0000	49.9664	100		0		40	75 - 125
1,2-Dichloropropane	50.0000	54.1556	108		3		40	70 - 120
Bromodichloromethane	50.0000	57.5223	115		1		40	70 - 130
cis-1,3-Dichloropropene	50.0000	53.2296	106		2		40	70 - 125
4-Methyl-2-pentanone	50.0000	50.7490	101		1		40	45 - 145
Toluene	50.0000	52.9692	106		3		40	70 - 125
trans-1,3-Dichloropropene	50.0000	55.5614	111		2		40	65 - 125
1,1,2-Trichloroethane	50.0000	56.9523	114		2		40	60 - 125
Tetrachloroethene	50.0000	40.8396	82		4		40	65 - 140
2-Hexanone	50.0000	49.5865	99		6		40	45 - 145
Dibromochloromethane	50.0000	51.5394	103		1		40	65 - 130
1,2-Dibromoethane	50.0000	50.7329	101		1		40	70 - 125
Chlorobenzene	50.0000	48.3689	97		3		40	75 - 125
Ethylbenzene	50.0000	45.5089	91		2		40	75 - 125
Xylene (Total)	150.0000	141.9909	95		2		40	83 - 125
Styrene	50.0000	48.3445	97		1		40	75 - 125
Bromoform	50.0000	49.0618	98		2		40	55 - 135
Isopropylbenzene	50.0000	46.1817	92		3		40	75 - 130
1,1,2,2-Tetrachloroethane	50.0000	53.9273	108		5		40	55 - 130
1,3-Dichlorobenzene	50.0000	47.3731	95		3		40	70 - 125
1,4-Dichlorobenzene	50.0000	47.0818	94		2		40	70 - 125
1,2-Dichlorobenzene	50.0000	47.4676	95		1		40	75 - 120
1,2-Dibromo-3-chloropropan	50.0000	64.0149	128		6		40	40 - 135
1,2,4-Trichlorobenzene	50.0000	51.1267	102		3		40	65 - 130
1,2,3-Trichlorobenzene	50.0000	56.6665	113		3		40	60 - 135

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCSD-79617 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,1,2-Trichloro-1,2,2-trif	50.0000	50.6197	101		2		40	70 - 130
1,4-Dioxane	1000.0000	816.1331	82		2		40	70 - 130
Cyclohexane	50.0000	48.7537	98		4		40	70 - 130
Methyl acetate	50.0000	73.6657	147	*	2		40	70 - 130
Methylcyclohexane	50.0000	46.2935	93		8		40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 51 outside limits

Spike Recovery: 2 out of 51 outside limits

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
MB-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab File ID: V1N1817.D Lab Sample ID: MB-79617

Instrument ID: V1

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 10/21/2014

Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:27

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-79617	LCS-79617	V1N1813.D	10:37
02	LCSD-79617	LCSD-79617	V1N1814.D	11:05
03	(211) TR-1 (13)	N1943-01C	V1N1819.D	13:21
04	(211) TR-2 (11)	N1943-02C	V1N1820.D	13:49
05	(211) TR-3 (11)	N1943-03C	V1N1821.D	14:16
06	(211) TR-4 (11)	N1943-04C	V1N1822.D	14:42
07	(211) TR-5 (11)	N1943-05C	V1N1823.D	15:09
08	(211) TR-6 (14)	N1943-06C	V1N1824.D	15:36

COMMENTS:

som14.10.02.1616

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB1A

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab File ID: V1N1430.D BFB Injection Date: 09/26/2014

Instrument ID: V1 BFB Injection Time: 8:22

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 60.0% of mass 95	43.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	75.9
175	5.0 - 9.0% of mass 174	6.0 (7.9)1
176	95.0 - 101.0% of mass 174	76.4 (100.7)1
177	5.0 - 9.0% of mass 176	5.3 (6.9)2

1 - Value is % mass 174 2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501A	VSTD0501A	V1N1432.D	09/26/2014	9:18
02	VSTD0201A	VSTD0201A	V1N1433.D	09/26/2014	9:56
03	VSTD0051A	VSTD0051A	V1N1434.D	09/26/2014	10:23
04	VSTD2001A	VSTD2001A	V1N1435.D	09/26/2014	10:51
05	VSTD1001A	VSTD1001A	V1N1436.D	09/26/2014	11:18

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB1P

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab File ID: V1N1810.D BFB Injection Date: 10/21/2014

Instrument ID: V1 BFB Injection Time: 9:01

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.9
75	30.0 - 60.0% of mass 95	43.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	80.4
175	5.0 - 9.0% of mass 174	6.9 (8.6)1
176	95.0 - 101.0% of mass 174	80.1 (99.6)1
177	5.0 - 9.0% of mass 176	4.9 (6.1)2

1 - Value is % mass 174 2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501P	VSTD0501P	V1N1812.D	10/21/2014	10:00
02	LCS-79617	LCS-79617	V1N1813.D	10/21/2014	10:37
03	LCSD-79617	LCSD-79617	V1N1814.D	10/21/2014	11:05
04	MB-79617	MB-79617	V1N1817.D	10/21/2014	12:27
05	(211) TR-1 (13)	N1943-01C	V1N1819.D	10/21/2014	13:21
06	(211) TR-2 (11)	N1943-02C	V1N1820.D	10/21/2014	13:49
07	(211) TR-3 (11)	N1943-03C	V1N1821.D	10/21/2014	14:16
08	(211) TR-4 (11)	N1943-04C	V1N1822.D	10/21/2014	14:42
09	(211) TR-5 (11)	N1943-05C	V1N1823.D	10/21/2014	15:09
10	(211) TR-6 (14)	N1943-06C	V1N1824.D	10/21/2014	15:36

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(VSTD#####): VSTD0501P Date Analyzed: 10/21/2014

Lab File ID (Standard): V1N1812.D Time Analyzed: 10:00

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	334276		4.364		247718		7.22		100207		9.791	
	UPPER LIMIT	668552		4.864		495436		7.72		200414		10.291	
	LOWER LIMIT	167138		3.864		123859		6.72		50104		9.291	
	EPA SAMPLE NO.												
01	LCS-79617	277471		4.364		205682		7.220		86117		9.791	
02	LCSD-79617	269485		4.374		199577		7.220		85353		9.791	
03	MB-79617	241103		4.374		177006		7.230		62845		9.801	
04	(211) TR-1 (13)	247105		4.370		186100		7.226		73048		9.797	
05	(211) TR-2 (11)	236405		4.379		175490		7.235		62396		9.796	
06	(211) TR-3 (11)	239034		4.383		178091		7.230		67990		9.800	
07	(211) TR-4 (11)	236139		4.378		176593		7.225		65204		9.796	
08	(211) TR-5 (11)	236082		4.369		158667		7.226		60582		9.796	
09	(211) TR-6 (14)	201845		4.374		150952		7.221		54833		9.801	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-01C

Sample wt/vol: 10.3 (g/mL) G Lab File ID: V1N1819.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 6.1 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2.6	U
74-87-3	Chloromethane	2.6	U
75-01-4	Vinyl chloride	2.6	U
74-83-9	Bromomethane	2.6	U
75-00-3	Chloroethane	2.6	U
75-69-4	Trichlorofluoromethane	2.6	U
75-35-4	1,1-Dichloroethene	2.6	U
67-64-1	Acetone	2.6	U
75-15-0	Carbon disulfide	2.6	U
75-09-2	Methylene chloride	2.6	U
156-60-5	trans-1,2-Dichloroethene	2.6	U
1634-04-4	Methyl tert-butyl ether	2.6	U
75-34-3	1,1-Dichloroethane	2.6	U
78-93-3	2-Butanone	2.6	U
156-59-2	cis-1,2-Dichloroethene	2.6	U
74-97-5	Bromochloromethane	2.6	U
67-66-3	Chloroform	2.6	U
71-55-6	1,1,1-Trichloroethane	2.6	U
56-23-5	Carbon tetrachloride	2.6	U
107-06-2	1,2-Dichloroethane	2.6	U
71-43-2	Benzene	2.6	U
79-01-6	Trichloroethene	2.6	U
78-87-5	1,2-Dichloropropane	2.6	U
75-27-4	Bromodichloromethane	2.6	U
10061-01-5	cis-1,3-Dichloropropene	2.6	U
108-10-1	4-Methyl-2-pentanone	2.6	U
108-88-3	Toluene	2.6	U
10061-02-6	trans-1,3-Dichloropropene	2.6	U
79-00-5	1,1,2-Trichloroethane	2.6	U
127-18-4	Tetrachloroethene	2.6	U
591-78-6	2-Hexanone	2.6	U
124-48-1	Dibromochloromethane	2.6	U
106-93-4	1,2-Dibromoethane	2.6	U
108-90-7	Chlorobenzene	2.6	U
100-41-4	Ethylbenzene	2.6	U

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-01C

Sample wt/vol: 10.3 (g/mL) G Lab File ID: V1N1819.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 6.1 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	2.6	U
100-42-5	Styrene	2.6	U
75-25-2	Bromoform	2.6	U
98-82-8	Isopropylbenzene	2.6	U
79-34-5	1,1,2,2-Tetrachloroethane	2.6	U
541-73-1	1,3-Dichlorobenzene	2.6	U
106-46-7	1,4-Dichlorobenzene	2.6	U
95-50-1	1,2-Dichlorobenzene	2.6	U
96-12-8	1,2-Dibromo-3-chloropropane	2.6	U
120-82-1	1,2,4-Trichlorobenzene	2.6	U
87-61-6	1,2,3-Trichlorobenzene	2.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.6	U
123-91-1	1,4-Dioxane	52	U
110-82-7	Cyclohexane	2.6	U
79-20-9	Methyl acetate	2.6	U
108-87-2	Methylcyclohexane	2.6	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-1 (13)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-01C

Sample wt/vol: 10.3 (g/mL) G Lab File ID: V1N1819.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 6.1 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

[1]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1819.D
Report Date: 28-Oct-2014 08:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1819.D
Lab Smp Id: N1943-01C Client Smp ID: (211) TR-1 (13)
Inj Date : 21-OCT-2014 13:21
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-01C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	10.300	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	3.828	3.822	(0.876)	90148	56.3049	27
$ 39 1,2-Dichloroethane-d4	102	4.094	4.088	(0.937)	18623	55.0334	27(R)
* 43 Fluorobenzene	96	4.370	4.373	(1.000)	247105	50.0000	
$ 53 Toluene-d8	98	5.778	5.782	(0.800)	230143	48.9814	24
* 62 Chlorobenzene-d5	117	7.226	7.220	(1.000)	186100	50.0000	
$ 73 Bromofluorobenzene	95	8.516	8.510	(1.179)	98538	53.7067	26
* 86 1,4-Dichlorobenzene-d4	152	9.797	9.791	(1.000)	73048	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1819.D
Report Date: 28-Oct-2014 08:40

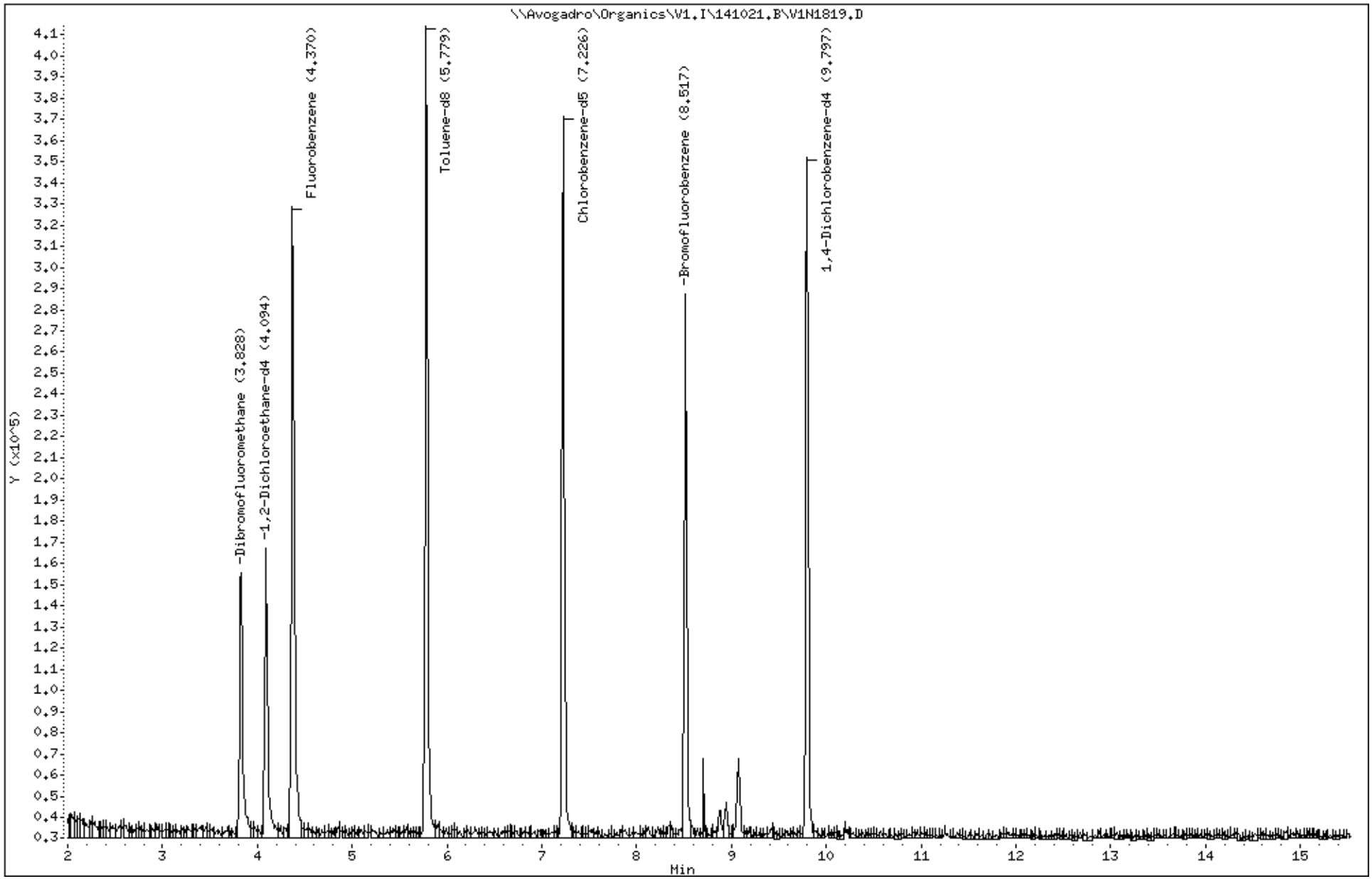
Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1819.D
Lab Smp Id: N1943-01C Client Smp ID: (211) TR-1 (13)
Inj Date : 21-OCT-2014 13:21
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-01C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1819.D
Date : 21-OCT-2014 13:21
Client ID: (211) TR-1 (13)
Instrument: V1.i
Sample Info: 5ML,N1943-01C,,79617
Operator: WL SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



EPA SAMPLE NO.
(211) TR-2 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-02C

Sample wt/vol: 10.6 (g/mL) G Lab File ID: V1N1820.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 8.2 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2.6	U
74-87-3	Chloromethane	2.6	U
75-01-4	Vinyl chloride	2.6	U
74-83-9	Bromomethane	2.6	U
75-00-3	Chloroethane	2.6	U
75-69-4	Trichlorofluoromethane	2.6	U
75-35-4	1,1-Dichloroethene	2.6	U
67-64-1	Acetone	2.6	U
75-15-0	Carbon disulfide	2.6	U
75-09-2	Methylene chloride	2.6	U
156-60-5	trans-1,2-Dichloroethene	2.6	U
1634-04-4	Methyl tert-butyl ether	2.6	U
75-34-3	1,1-Dichloroethane	2.6	U
78-93-3	2-Butanone	2.6	U
156-59-2	cis-1,2-Dichloroethene	2.6	U
74-97-5	Bromochloromethane	2.6	U
67-66-3	Chloroform	2.6	U
71-55-6	1,1,1-Trichloroethane	2.6	U
56-23-5	Carbon tetrachloride	2.6	U
107-06-2	1,2-Dichloroethane	2.6	U
71-43-2	Benzene	2.6	U
79-01-6	Trichloroethene	2.6	U
78-87-5	1,2-Dichloropropane	2.6	U
75-27-4	Bromodichloromethane	2.6	U
10061-01-5	cis-1,3-Dichloropropene	2.6	U
108-10-1	4-Methyl-2-pentanone	2.6	U
108-88-3	Toluene	2.6	U
10061-02-6	trans-1,3-Dichloropropene	2.6	U
79-00-5	1,1,2-Trichloroethane	2.6	U
127-18-4	Tetrachloroethene	2.6	U
591-78-6	2-Hexanone	2.6	U
124-48-1	Dibromochloromethane	2.6	U
106-93-4	1,2-Dibromoethane	2.6	U
108-90-7	Chlorobenzene	2.6	U
100-41-4	Ethylbenzene	2.6	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-2 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-02C

Sample wt/vol: 10.6 (g/mL) G Lab File ID: V1N1820.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 8.2 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	2.6	U
100-42-5	Styrene	2.6	U
75-25-2	Bromoform	2.6	U
98-82-8	Isopropylbenzene	2.6	U
79-34-5	1,1,2,2-Tetrachloroethane	2.6	U
541-73-1	1,3-Dichlorobenzene	2.6	U
106-46-7	1,4-Dichlorobenzene	2.6	U
95-50-1	1,2-Dichlorobenzene	2.6	U
96-12-8	1,2-Dibromo-3-chloropropane	2.6	U
120-82-1	1,2,4-Trichlorobenzene	2.6	U
87-61-6	1,2,3-Trichlorobenzene	2.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.6	U
123-91-1	1,4-Dioxane	51	U
110-82-7	Cyclohexane	2.6	U
79-20-9	Methyl acetate	2.6	U
108-87-2	Methylcyclohexane	2.6	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-2 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-02C

Sample wt/vol: 10.6 (g/mL) G Lab File ID: V1N1820.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 8.2 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

[1]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1820.D
Report Date: 28-Oct-2014 08:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1820.D
Lab Smp Id: N1943-02C Client Smp ID: (211) TR-2 (11)
Inj Date : 21-OCT-2014 13:49
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-02C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	10.600	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	3.826	3.822	(0.874)	86872	56.7146	27
$ 39 1,2-Dichloroethane-d4	102	4.092	4.088	(0.935)	16915	52.2484	25
* 43 Fluorobenzene	96	4.378	4.373	(1.000)	236405	50.0000	
$ 53 Toluene-d8	98	5.787	5.782	(0.800)	216458	48.8541	23
* 62 Chlorobenzene-d5	117	7.234	7.220	(1.000)	175490	50.0000	
$ 73 Bromofluorobenzene	95	8.515	8.510	(1.177)	86474	49.9809	24
* 86 1,4-Dichlorobenzene-d4	152	9.795	9.791	(1.000)	62396	50.0000	

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1820.D
Report Date: 28-Oct-2014 08:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1820.D
Lab Smp Id: N1943-02C Client Smp ID: (211) TR-2 (11)
Inj Date : 21-OCT-2014 13:49
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-02C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

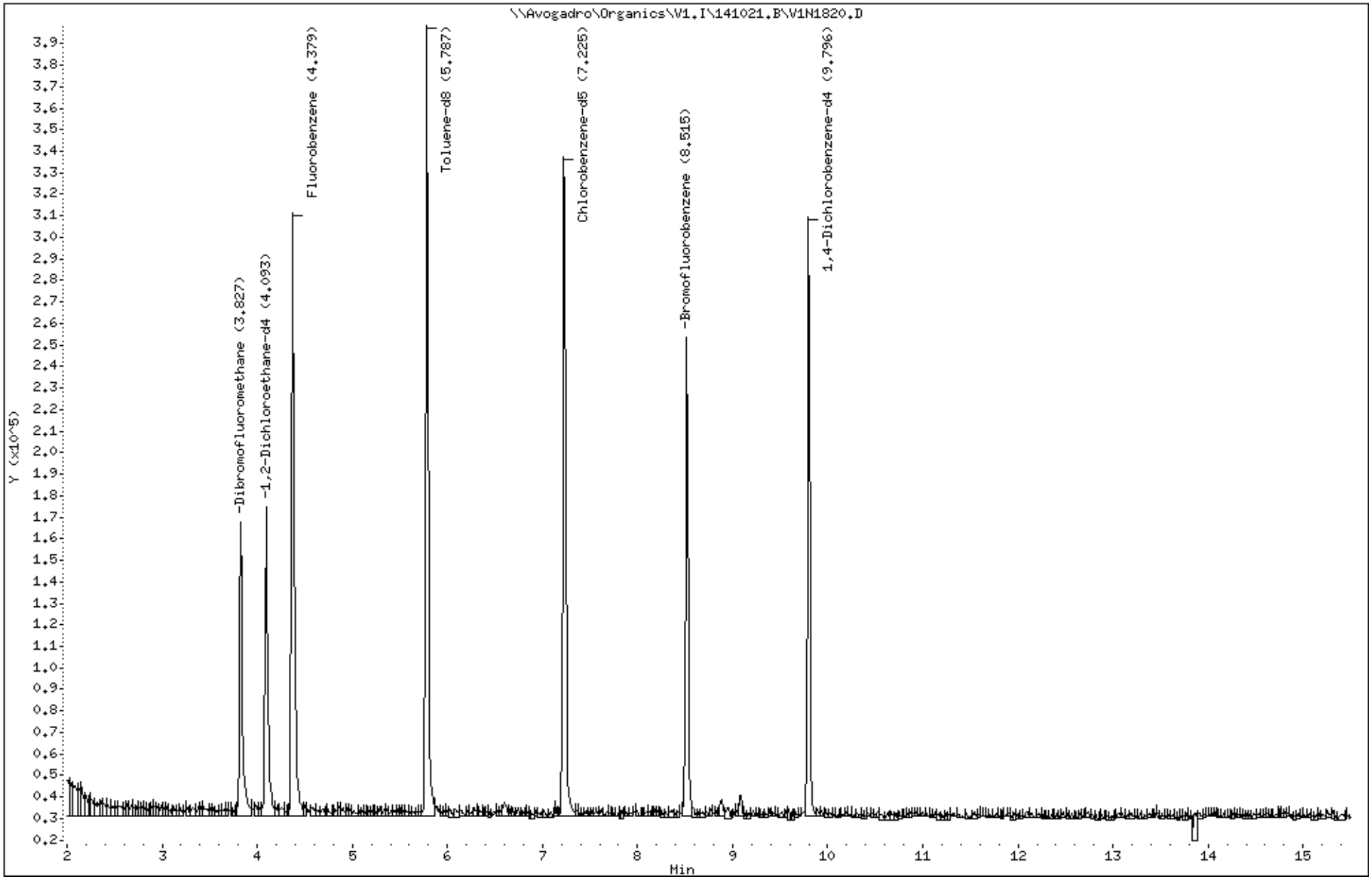
- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1820.D
Date : 21-OCT-2014 13:49
Client ID: (211) TR-2 (11)
Sample Info: 5ML,N1943-02C,,79617

Instrument: V1.i

Operator: WL SRC: LIMS
Column diameter: 0.25

Column phase: DB-624



EPA SAMPLE NO.
(211) TR-3 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-03C

Sample wt/vol: 14.8 (g/mL) G Lab File ID: V1N1821.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 6.6 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl chloride	1.8	U
74-83-9	Bromomethane	1.8	U
75-00-3	Chloroethane	1.8	U
75-69-4	Trichlorofluoromethane	1.8	U
75-35-4	1,1-Dichloroethene	1.8	U
67-64-1	Acetone	1.8	U
75-15-0	Carbon disulfide	1.8	U
75-09-2	Methylene chloride	1.8	U
156-60-5	trans-1,2-Dichloroethene	1.8	U
1634-04-4	Methyl tert-butyl ether	1.8	U
75-34-3	1,1-Dichloroethane	1.8	U
78-93-3	2-Butanone	1.8	U
156-59-2	cis-1,2-Dichloroethene	1.8	U
74-97-5	Bromochloromethane	1.8	U
67-66-3	Chloroform	1.8	U
71-55-6	1,1,1-Trichloroethane	1.8	U
56-23-5	Carbon tetrachloride	1.8	U
107-06-2	1,2-Dichloroethane	1.8	U
71-43-2	Benzene	1.8	U
79-01-6	Trichloroethene	1.8	U
78-87-5	1,2-Dichloropropane	1.8	U
75-27-4	Bromodichloromethane	1.8	U
10061-01-5	cis-1,3-Dichloropropene	1.8	U
108-10-1	4-Methyl-2-pentanone	1.8	U
108-88-3	Toluene	1.8	U
10061-02-6	trans-1,3-Dichloropropene	1.8	U
79-00-5	1,1,2-Trichloroethane	1.8	U
127-18-4	Tetrachloroethene	1.8	U
591-78-6	2-Hexanone	1.8	U
124-48-1	Dibromochloromethane	1.8	U
106-93-4	1,2-Dibromoethane	1.8	U
108-90-7	Chlorobenzene	1.8	U
100-41-4	Ethylbenzene	1.8	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-3 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-03C

Sample wt/vol: 14.8 (g/mL) G Lab File ID: V1N1821.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 6.6 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	1.8	U
100-42-5	Styrene	1.8	U
75-25-2	Bromoform	1.8	U
98-82-8	Isopropylbenzene	1.8	U
79-34-5	1,1,2,2-Tetrachloroethane	1.8	U
541-73-1	1,3-Dichlorobenzene	1.8	U
106-46-7	1,4-Dichlorobenzene	1.8	U
95-50-1	1,2-Dichlorobenzene	1.8	U
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U
120-82-1	1,2,4-Trichlorobenzene	1.8	U
87-61-6	1,2,3-Trichlorobenzene	1.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.8	U
123-91-1	1,4-Dioxane	36	U
110-82-7	Cyclohexane	1.8	U
79-20-9	Methyl acetate	1.8	U
108-87-2	Methylcyclohexane	1.8	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-3 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-03C

Sample wt/vol: 14.8 (g/mL) G Lab File ID: V1N1821.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 6.6 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

[1]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1821.D
Report Date: 28-Oct-2014 08:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1821.D
Lab Smp Id: N1943-03C Client Smp ID: (211) TR-3 (11)
Inj Date : 21-OCT-2014 14:16
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-03C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	14.800	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	3.831	3.822	(0.874)	90417	58.3798	20
$ 39 1,2-Dichloroethane-d4	102	4.097	4.088	(0.935)	17715	54.1177	18
* 43 Fluorobenzene	96	4.383	4.373	(1.000)	239034	50.0000	
$ 53 Toluene-d8	98	5.791	5.782	(0.801)	219590	48.8372	16
* 62 Chlorobenzene-d5	117	7.229	7.220	(1.000)	178091	50.0000	
$ 73 Bromofluorobenzene	95	8.519	8.510	(1.178)	89084	50.7374	17
* 86 1,4-Dichlorobenzene-d4	152	9.800	9.791	(1.000)	67990	50.0000	

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1821.D
Report Date: 28-Oct-2014 08:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

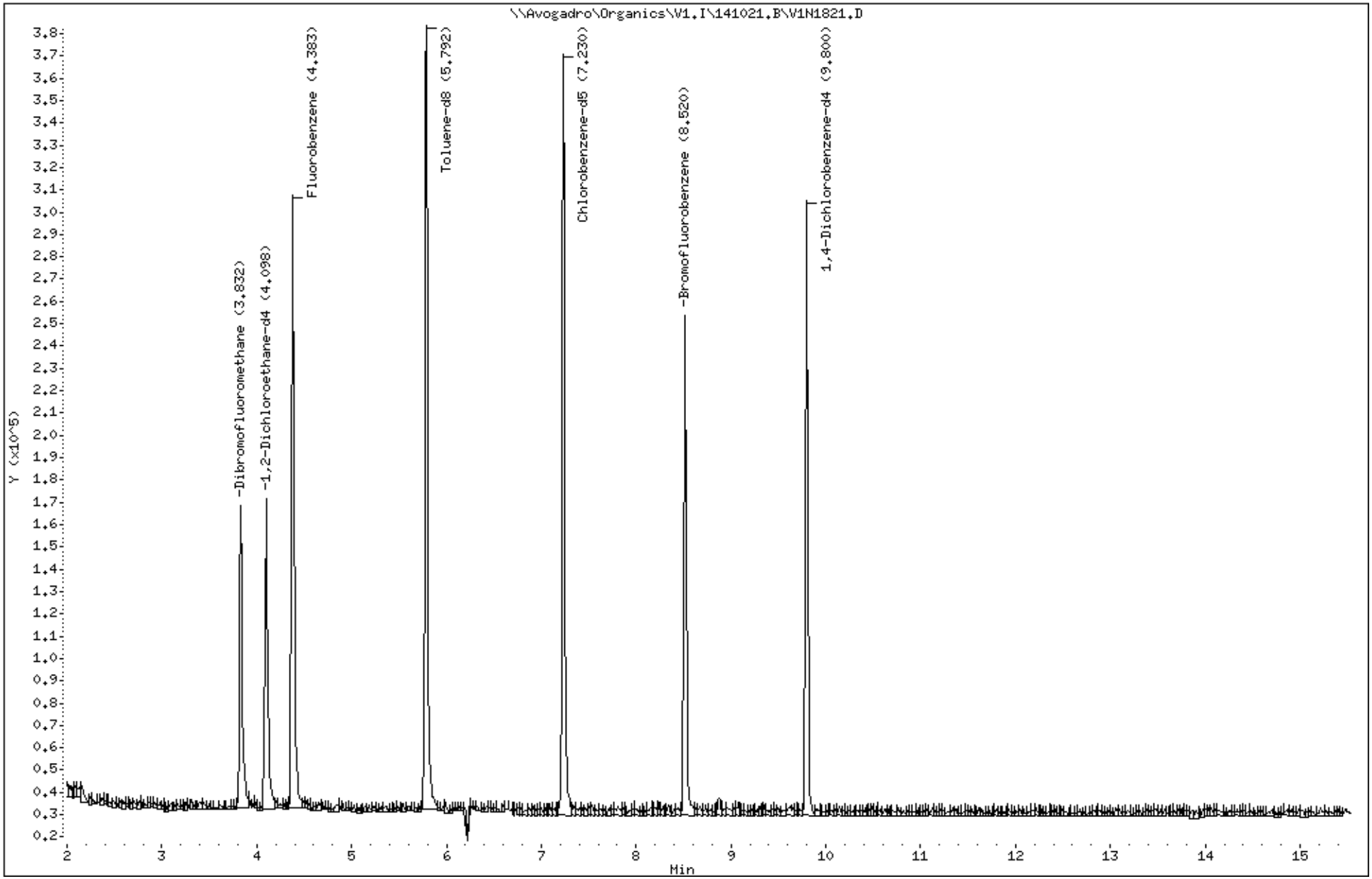
Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1821.D
Lab Smp Id: N1943-03C Client Smp ID: (211) TR-3 (11)
Inj Date : 21-OCT-2014 14:16
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-03C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1821.D
Date : 21-OCT-2014 14:16
Client ID: (211) TR-3 (11)
Sample Info: 5ML,N1943-03C,,79617

Instrument: V1.i

Operator: WL SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-04C

Sample wt/vol: 9.90 (g/mL) G Lab File ID: V1N1822.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 6.8 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2.7	U
74-87-3	Chloromethane	2.7	U
75-01-4	Vinyl chloride	2.7	U
74-83-9	Bromomethane	2.7	U
75-00-3	Chloroethane	2.7	U
75-69-4	Trichlorofluoromethane	2.7	U
75-35-4	1,1-Dichloroethene	2.7	U
67-64-1	Acetone	2.7	U
75-15-0	Carbon disulfide	2.7	U
75-09-2	Methylene chloride	2.7	U
156-60-5	trans-1,2-Dichloroethene	2.7	U
1634-04-4	Methyl tert-butyl ether	2.7	U
75-34-3	1,1-Dichloroethane	2.7	U
78-93-3	2-Butanone	2.7	U
156-59-2	cis-1,2-Dichloroethene	2.7	U
74-97-5	Bromochloromethane	2.7	U
67-66-3	Chloroform	2.7	U
71-55-6	1,1,1-Trichloroethane	2.7	U
56-23-5	Carbon tetrachloride	2.7	U
107-06-2	1,2-Dichloroethane	2.7	U
71-43-2	Benzene	2.7	U
79-01-6	Trichloroethene	2.7	U
78-87-5	1,2-Dichloropropane	2.7	U
75-27-4	Bromodichloromethane	2.7	U
10061-01-5	cis-1,3-Dichloropropene	2.7	U
108-10-1	4-Methyl-2-pentanone	2.7	U
108-88-3	Toluene	2.7	U
10061-02-6	trans-1,3-Dichloropropene	2.7	U
79-00-5	1,1,2-Trichloroethane	2.7	U
127-18-4	Tetrachloroethene	2.7	U
591-78-6	2-Hexanone	2.7	U
124-48-1	Dibromochloromethane	2.7	U
106-93-4	1,2-Dibromoethane	2.7	U
108-90-7	Chlorobenzene	2.7	U
100-41-4	Ethylbenzene	2.7	U

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-04C

Sample wt/vol: 9.90 (g/mL) G Lab File ID: V1N1822.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 6.8 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	2.7	U
100-42-5	Styrene	2.7	U
75-25-2	Bromoform	2.7	U
98-82-8	Isopropylbenzene	2.7	U
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U
541-73-1	1,3-Dichlorobenzene	2.7	U
106-46-7	1,4-Dichlorobenzene	2.7	U
95-50-1	1,2-Dichlorobenzene	2.7	U
96-12-8	1,2-Dibromo-3-chloropropane	2.7	U
120-82-1	1,2,4-Trichlorobenzene	2.7	U
87-61-6	1,2,3-Trichlorobenzene	2.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.7	U
123-91-1	1,4-Dioxane	54	U
110-82-7	Cyclohexane	2.7	U
79-20-9	Methyl acetate	2.7	U
108-87-2	Methylcyclohexane	2.7	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-4 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-04C

Sample wt/vol: 9.90 (g/mL) G Lab File ID: V1N1822.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 6.8 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

[1]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1822.D
Report Date: 28-Oct-2014 08:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1822.D
Lab Smp Id: N1943-04C Client Smp ID: (211) TR-4 (11)
Inj Date : 21-OCT-2014 14:42
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-04C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	9.900	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	3.826	3.822	(0.874)	88485	57.8328	29
$ 39 1,2-Dichloroethane-d4	102	4.092	4.088	(0.935)	17532	54.2153	27
* 43 Fluorobenzene	96	4.378	4.373	(1.000)	236139	50.0000	
$ 53 Toluene-d8	98	5.786	5.782	(0.801)	216864	48.6400	24
* 62 Chlorobenzene-d5	117	7.224	7.220	(1.000)	176593	50.0000	
$ 73 Bromofluorobenzene	95	8.515	8.510	(1.179)	87844	50.4556	25
* 86 1,4-Dichlorobenzene-d4	152	9.795	9.791	(1.000)	65204	50.0000	

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1822.D
Report Date: 28-Oct-2014 08:40

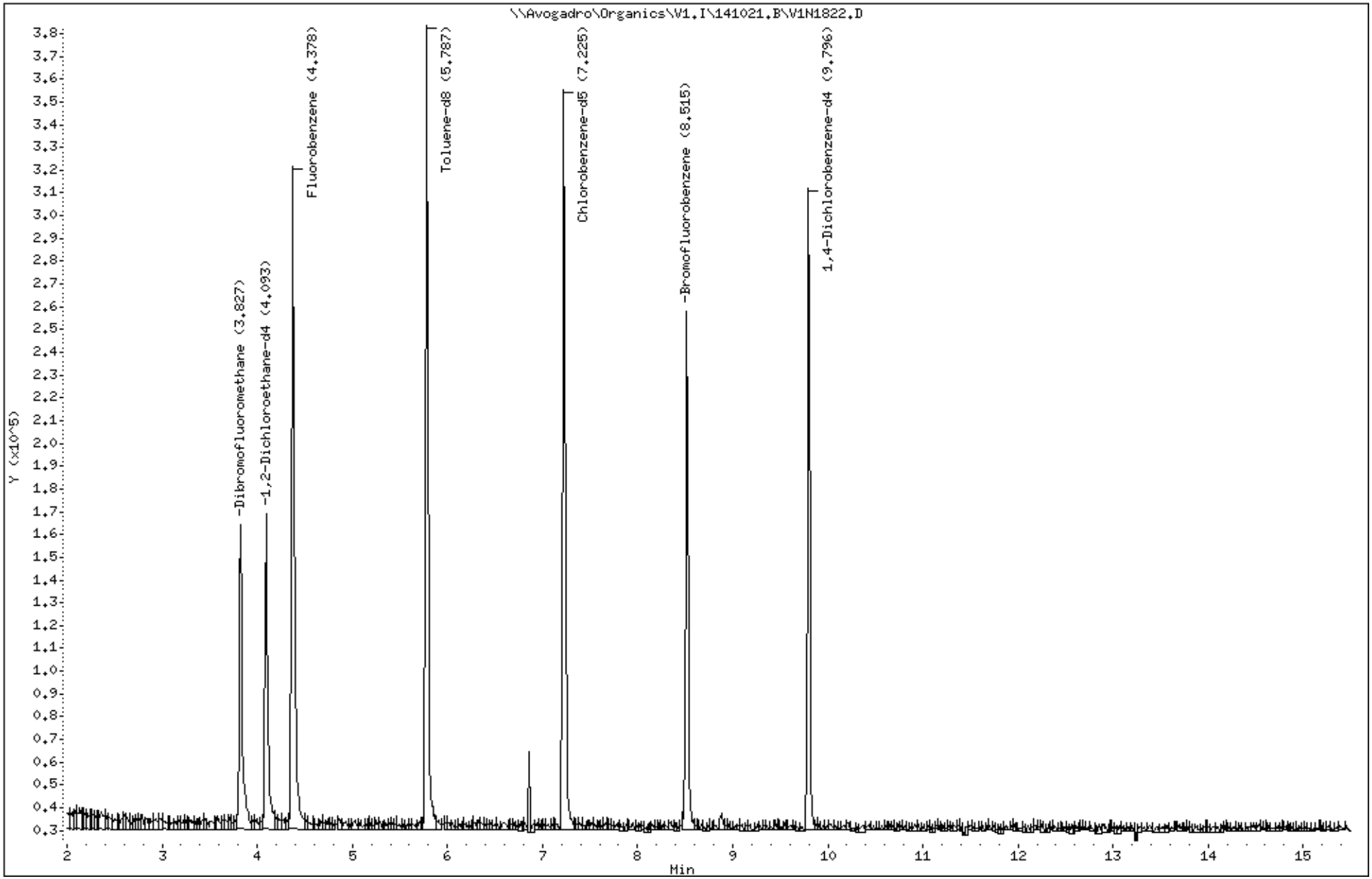
Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1822.D
Lab Smp Id: N1943-04C Client Smp ID: (211) TR-4 (11)
Inj Date : 21-OCT-2014 14:42
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-04C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1822.D
Date : 21-OCT-2014 14:42
Client ID: (211) TR-4 (11)
Instrument: V1.i
Sample Info: 5ML,N1943-04C,,79617
Operator: WL SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-05C

Sample wt/vol: 10.3 (g/mL) G Lab File ID: V1N1823.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 8.9 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2.7	U
74-87-3	Chloromethane	2.7	U
75-01-4	Vinyl chloride	2.7	U
74-83-9	Bromomethane	2.7	U
75-00-3	Chloroethane	2.7	U
75-69-4	Trichlorofluoromethane	2.7	U
75-35-4	1,1-Dichloroethene	2.7	U
67-64-1	Acetone	2.7	U
75-15-0	Carbon disulfide	2.7	U
75-09-2	Methylene chloride	2.7	U
156-60-5	trans-1,2-Dichloroethene	2.7	U
1634-04-4	Methyl tert-butyl ether	2.7	U
75-34-3	1,1-Dichloroethane	2.7	U
78-93-3	2-Butanone	2.7	U
156-59-2	cis-1,2-Dichloroethene	2.7	U
74-97-5	Bromochloromethane	2.7	U
67-66-3	Chloroform	2.7	U
71-55-6	1,1,1-Trichloroethane	2.7	U
56-23-5	Carbon tetrachloride	2.7	U
107-06-2	1,2-Dichloroethane	2.7	U
71-43-2	Benzene	2.7	U
79-01-6	Trichloroethene	2.7	U
78-87-5	1,2-Dichloropropane	2.7	U
75-27-4	Bromodichloromethane	2.7	U
10061-01-5	cis-1,3-Dichloropropene	2.7	U
108-10-1	4-Methyl-2-pentanone	2.7	U
108-88-3	Toluene	2.7	U
10061-02-6	trans-1,3-Dichloropropene	2.7	U
79-00-5	1,1,2-Trichloroethane	2.7	U
127-18-4	Tetrachloroethene	2.7	U
591-78-6	2-Hexanone	2.7	U
124-48-1	Dibromochloromethane	2.7	U
106-93-4	1,2-Dibromoethane	2.7	U
108-90-7	Chlorobenzene	2.7	U
100-41-4	Ethylbenzene	2.7	U

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-05C

Sample wt/vol: 10.3 (g/mL) G Lab File ID: V1N1823.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 8.9 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	2.7	U
100-42-5	Styrene	2.7	U
75-25-2	Bromoform	2.7	U
98-82-8	Isopropylbenzene	2.7	U
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U
541-73-1	1,3-Dichlorobenzene	2.7	U
106-46-7	1,4-Dichlorobenzene	2.7	U
95-50-1	1,2-Dichlorobenzene	2.7	U
96-12-8	1,2-Dibromo-3-chloropropane	2.7	U
120-82-1	1,2,4-Trichlorobenzene	2.7	U
87-61-6	1,2,3-Trichlorobenzene	2.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.7	U
123-91-1	1,4-Dioxane	53	U
110-82-7	Cyclohexane	2.7	U
79-20-9	Methyl acetate	2.7	U
108-87-2	Methylcyclohexane	2.7	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-5 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-05C

Sample wt/vol: 10.3 (g/mL) G Lab File ID: V1N1823.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 8.9 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

[1]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1823.D
Report Date: 28-Oct-2014 08:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1823.D
Lab Smp Id: N1943-05C Client Smp ID: (211) TR-5 (11)
Inj Date : 21-OCT-2014 15:09
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-05C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	10.300	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	3.817	3.822	(0.874)	88395	57.7879	28
$ 39 1,2-Dichloroethane-d4	102	4.093	4.088	(0.937)	17913	55.4068	27(R)
* 43 Fluorobenzene	96	4.369	4.373	(1.000)	236082	50.0000	
$ 53 Toluene-d8	98	5.777	5.782	(0.800)	220409	55.0202	27
* 62 Chlorobenzene-d5	117	7.225	7.220	(1.000)	158667	50.0000	
$ 73 Bromofluorobenzene	95	8.515	8.510	(1.179)	83858	53.6079	26
* 86 1,4-Dichlorobenzene-d4	152	9.796	9.791	(1.000)	60582	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1823.D
Report Date: 28-Oct-2014 08:40

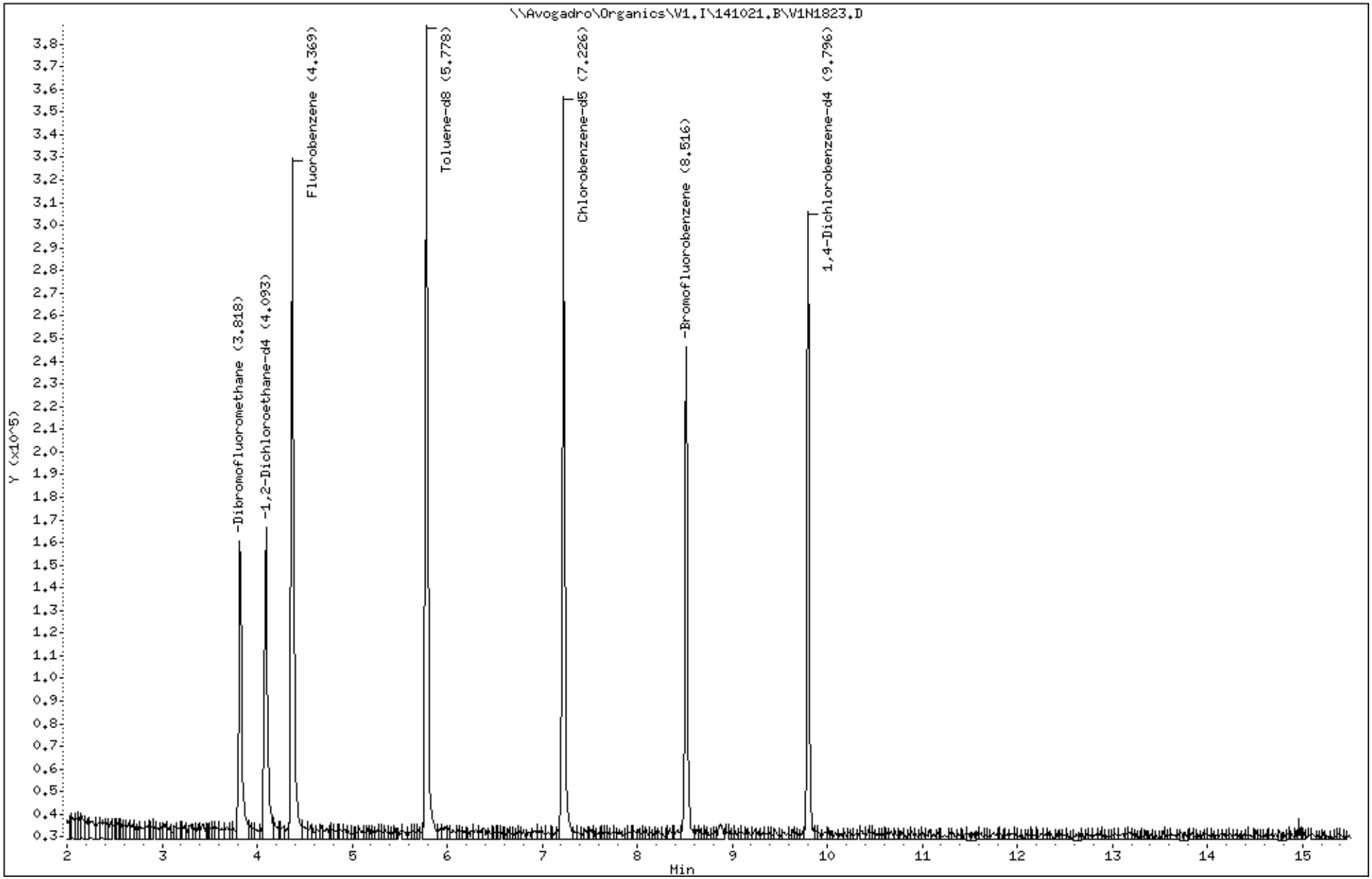
Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1823.D
Lab Smp Id: N1943-05C Client Smp ID: (211) TR-5 (11)
Inj Date : 21-OCT-2014 15:09
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-05C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1823.D
Date : 21-OCT-2014 15:09
Client ID: (211) TR-5 (11)
Instrument: V1.i
Sample Info: 5ML,N1943-05C,,79617
Operator: WL SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-6 (14)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-06C

Sample wt/vol: 13.8 (g/mL) G Lab File ID: V1N1824.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 7.0 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.9	U
74-87-3	Chloromethane	1.9	U
75-01-4	Vinyl chloride	1.9	U
74-83-9	Bromomethane	1.9	U
75-00-3	Chloroethane	1.9	U
75-69-4	Trichlorofluoromethane	1.9	U
75-35-4	1,1-Dichloroethene	1.9	U
67-64-1	Acetone	1.9	U
75-15-0	Carbon disulfide	1.9	U
75-09-2	Methylene chloride	1.9	U
156-60-5	trans-1,2-Dichloroethene	1.9	U
1634-04-4	Methyl tert-butyl ether	1.9	U
75-34-3	1,1-Dichloroethane	1.9	U
78-93-3	2-Butanone	1.9	U
156-59-2	cis-1,2-Dichloroethene	1.9	U
74-97-5	Bromochloromethane	1.9	U
67-66-3	Chloroform	1.9	U
71-55-6	1,1,1-Trichloroethane	1.9	U
56-23-5	Carbon tetrachloride	1.9	U
107-06-2	1,2-Dichloroethane	1.9	U
71-43-2	Benzene	1.9	U
79-01-6	Trichloroethene	1.9	U
78-87-5	1,2-Dichloropropane	1.9	U
75-27-4	Bromodichloromethane	1.9	U
10061-01-5	cis-1,3-Dichloropropene	1.9	U
108-10-1	4-Methyl-2-pentanone	1.9	U
108-88-3	Toluene	1.9	U
10061-02-6	trans-1,3-Dichloropropene	1.9	U
79-00-5	1,1,2-Trichloroethane	1.9	U
127-18-4	Tetrachloroethene	1.9	U
591-78-6	2-Hexanone	1.9	U
124-48-1	Dibromochloromethane	1.9	U
106-93-4	1,2-Dibromoethane	1.9	U
108-90-7	Chlorobenzene	1.9	U
100-41-4	Ethylbenzene	1.9	U

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-06C

Sample wt/vol: 13.8 (g/mL) G Lab File ID: V1N1824.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 7.0 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	1.9	U
100-42-5	Styrene	1.9	U
75-25-2	Bromoform	1.9	U
98-82-8	Isopropylbenzene	1.9	U
79-34-5	1,1,2,2-Tetrachloroethane	1.9	U
541-73-1	1,3-Dichlorobenzene	1.9	U
106-46-7	1,4-Dichlorobenzene	1.9	U
95-50-1	1,2-Dichlorobenzene	1.9	U
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U
120-82-1	1,2,4-Trichlorobenzene	1.9	U
87-61-6	1,2,3-Trichlorobenzene	1.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	U
123-91-1	1,4-Dioxane	39	U
110-82-7	Cyclohexane	1.9	U
79-20-9	Methyl acetate	1.9	U
108-87-2	Methylcyclohexane	1.9	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-6 (14)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-06C

Sample wt/vol: 13.8 (g/mL) G Lab File ID: V1N1824.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/16/2014

% Moisture: not dec. 7.0 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

[1]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1824.D
Report Date: 28-Oct-2014 08:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1824.D
Lab Smp Id: N1943-06C Client Smp ID: (211) TR-6 (14)
Inj Date : 21-OCT-2014 15:36
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-06C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	13.800	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	3.822	3.822	(0.874)	76227	58.2858	21
$ 39 1,2-Dichloroethane-d4	102	4.098	4.088	(0.937)	15590	56.4009	20(R)
* 43 Fluorobenzene	96	4.374	4.373	(1.000)	201845	50.0000	
$ 53 Toluene-d8	98	5.782	5.782	(0.801)	188541	49.4705	18
* 62 Chlorobenzene-d5	117	7.220	7.220	(1.000)	150952	50.0000	
$ 73 Bromofluorobenzene	95	8.511	8.510	(1.179)	76135	51.1583	18
* 86 1,4-Dichlorobenzene-d4	152	9.801	9.791	(1.000)	54833	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1824.D
Report Date: 28-Oct-2014 08:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1824.D
Lab Smp Id: N1943-06C Client Smp ID: (211) TR-6 (14)
Inj Date : 21-OCT-2014 15:36
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,N1943-06C,,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 28-Oct-2014 08:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

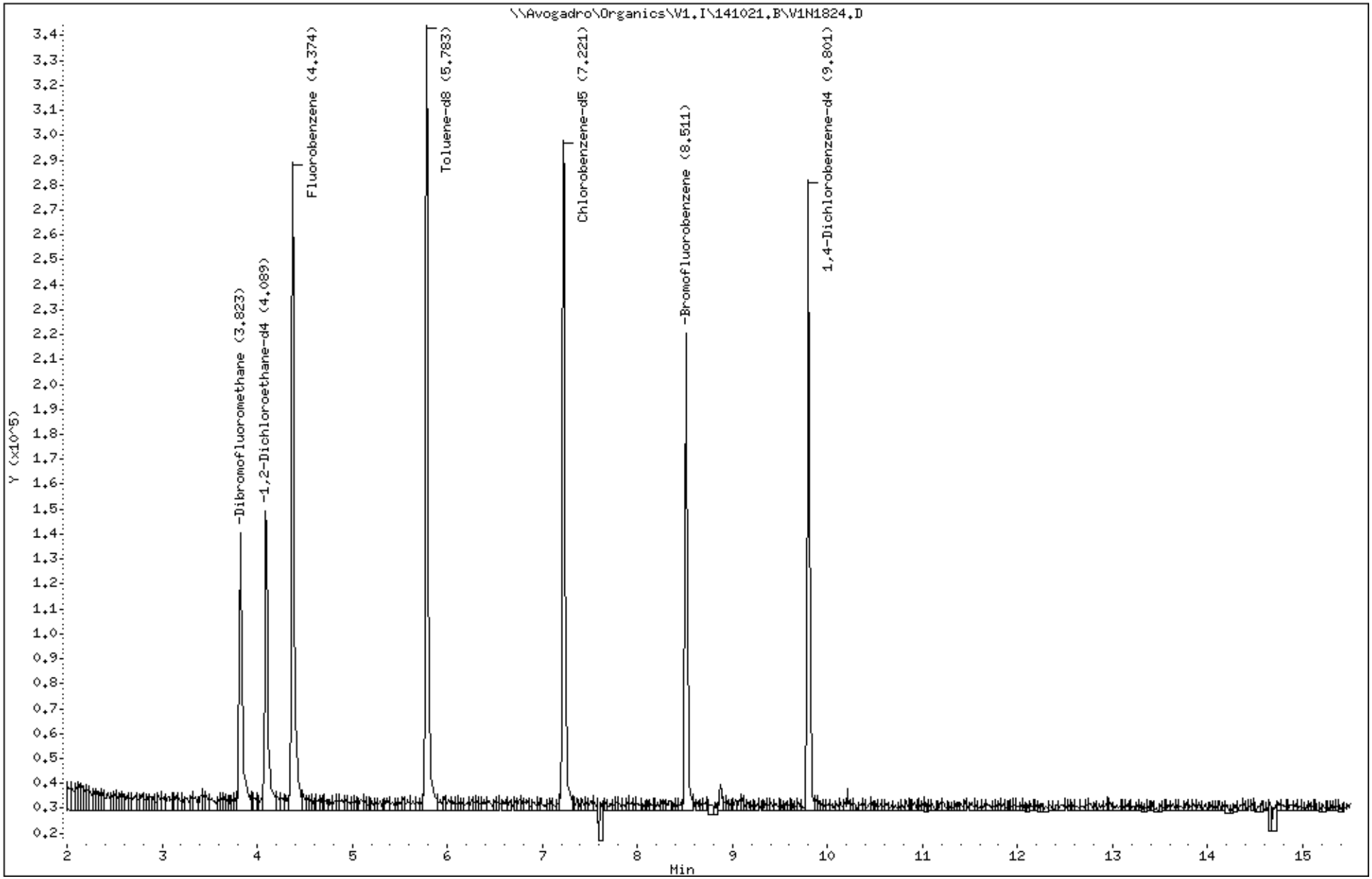
- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1824.D
Date : 21-OCT-2014 15:36
Client ID: (211) TR-6 (14)
Sample Info: 5ML,N1943-06C,,79617

Instrument: V1.i

Operator: WL SRC: LIMS
Column diameter: 0.25

Column phase: DB-624



6A - FORM VI VOA-1

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: V1 Calibration Date(s): 09/26/2014 09/26/2014

Heated Purge: (Y/N) N Calibration Time(s): 9:18 11:18

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF005 = V1N1434.D RRF020 = V1N1433.D

RRF050 = V1N1432.D RRF100 = V1N1436.D RRF200 = V1N1435.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.176	0.176	0.161	0.173	0.175	0.172	3.9
Chloromethane	0.457	0.470	0.488	0.417	0.485	0.463	6.2
Vinyl chloride	0.298	0.307	0.331	0.379	0.342	0.331	9.7
Bromomethane	0.188	0.195	0.206	0.237	0.225	0.210	9.8
Chloroethane	0.221	0.214	0.221	0.244	0.228	0.225	5.0
Trichlorofluoromethane	0.266	0.327	0.347	0.381	0.365	0.337	13.2
1,1-Dichloroethene	0.231	0.237	0.237	0.266	0.246	0.243	5.5
Acetone	0.032	0.032	0.030	0.037	0.035	0.033	8.6
Carbon disulfide	0.577	0.633	0.603	0.684	0.632	0.626	6.4
Methylene chloride	0.298	0.260	0.275	0.297	0.282	0.282	5.8
trans-1,2-Dichloroethene	0.270	0.253	0.270	0.285	0.276	0.271	4.2
Methyl tert-butyl ether	0.773	0.723	0.716	0.847	0.811	0.774	7.3
1,1-Dichloroethane	0.446	0.448	0.458	0.484	0.444	0.456	3.6
2-Butanone	0.024	0.024	0.025	0.035	0.032	0.028	17.4
cis-1,2-Dichloroethene	0.260	0.265	0.285	0.297	0.284	0.278	5.5
Bromochloromethane	0.157	0.138	0.146	0.165	0.162	0.154	7.3
Chloroform	0.496	0.464	0.490	0.510	0.492	0.490	3.4
1,1,1-Trichloroethane	0.386	0.387	0.400	0.422	0.409	0.401	3.8
Carbon tetrachloride	0.399	0.398	0.404	0.424	0.408	0.407	2.6
1,2-Dichloroethane	0.419	0.375	0.391	0.423	0.391	0.400	5.2
Benzene	0.944	0.899	0.943	1.013	1.004	0.961	4.9
Trichloroethene	0.277	0.274	0.276	0.297	0.289	0.283	3.5
1,2-Dichloropropane	0.316	0.286	0.291	0.319	0.299	0.302	4.8
Bromodichloromethane	0.397	0.354	0.375	0.404	0.385	0.383	5.1
cis-1,3-Dichloropropene	0.405	0.391	0.415	0.455	0.439	0.421	6.1
4-Methyl-2-pentanone	0.435	0.370	0.353	0.498	0.430	0.418	13.8
Toluene	0.894	0.848	0.912	0.968	0.929	0.910	4.9
trans-1,3-Dichloropropene	0.355	0.346	0.361	0.411	0.395	0.374	7.4
1,1,2-Trichloroethane	0.191	0.171	0.189	0.223	0.204	0.196	9.8
Tetrachloroethene	0.356	0.304	0.307	0.320	0.315	0.320	6.5
2-Hexanone	0.448	0.391	0.353	0.489	0.402	0.417	12.7
Dibromochloromethane	0.433	0.399	0.434	0.478	0.456	0.440	6.7
1,2-Dibromoethane	0.304	0.289	0.319	0.354	0.333	0.320	7.9
Chlorobenzene	0.932	0.865	0.914	0.960	0.934	0.921	3.8
Ethylbenzene	0.483	0.437	0.456	0.486	0.476	0.468	4.4
Xylene (Total)	0.563	0.533	0.557	0.596	0.579	0.566	4.2
Styrene	0.895	0.880	0.950	1.035	1.004	0.953	7.1
Bromoform	0.221	0.210	0.238	0.281	0.266	0.243	12.3
Isopropylbenzene	1.519	1.456	1.477	1.577	1.524	1.510	3.1

6B - FORM VI VOA-2

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: V1 Calibration Date(s): 09/26/2014 09/26/2014

Heated Purge: (Y/N) N Calibration Time(s): 9:18 11:18

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF005 = V1N1434.D RRF020 = V1N1433.D

RRF050 = V1N1432.D RRF100 = V1N1436.D RRF200 = V1N1435.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	%RSD
1,1,2,2-Tetrachloroethane	0.947	0.856	0.824	0.977	0.873	0.895	7.2
1,3-Dichlorobenzene	1.601	1.522	1.501	1.644	1.519	1.557	4.0
1,4-Dichlorobenzene	1.633	1.556	1.483	1.646	1.548	1.573	4.2
1,2-Dichlorobenzene	1.508	1.403	1.406	1.497	1.399	1.443	3.8
1,2-Dibromo-3-chloropropane	0.121	0.123	0.120	0.144	0.115	0.125	9.1
1,2,4-Trichlorobenzene	0.708	0.685	0.618	0.680	0.503	0.639	13.0
1,2,3-Trichlorobenzene	0.629	0.568	0.518	0.560	0.353	0.526	19.8
1,1,2-Trichloro-1,2,2-trifluoroethane	0.275	0.271	0.268	0.318	0.296	0.285	7.4
1,4-Dioxane	0.002	0.002	0.002	0.003	0.003	0.002	21.9
Cyclohexane	0.588	0.568	0.580	0.622	0.599	0.592	3.5
Methyl acetate	0.364	0.334	0.339	0.452	0.414	0.381	13.4
Methylcyclohexane	0.427	0.440	0.435	0.465	0.460	0.445	3.7

6C - FORM VI VOA-3

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: V1 Calibration Date(s): 09/26/2014 09/26/2014

Heated Purge: (Y/N) N Calibration Time(s): 9:18 11:18

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF005 = V1N1434.D RRF020 = V1N1433.D

RRF050 = V1N1432.D RRF100 = V1N1436.D RRF200 = V1N1435.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	%RSD
Dibromofluoromethane	0.335	0.335	0.318	0.315	0.317	0.324	3.1
1,2-Dichloroethane-d4	0.066	0.070	0.072	0.072	0.063	0.068	6.1
Toluene-d8	1.304	1.290	1.326	1.275	1.117	1.262	6.6
Bromofluorobenzene	0.483	0.490	0.496	0.497	0.500	0.493	1.4

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1432.D
Report Date: 02-Oct-2014 13:36

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\140926.B\V1N1432.D
Lab Smp Id: VSTD0501A Client Smp ID: VSTD0501A
Inj Date : 26-SEP-2014 09:18
Operator : WL   SRC: WL Inst ID: V1.i
Smp Info : 5ML,VSTD0501A,VSTD0501A
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\140926.B\v18260GH.m
Meth Date : 02-Oct-2014 13:35 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 09:18 Cal File: V1N1432.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.263	1.263	(0.289)	62581	50.0000	47
2	Chloromethane	50	1.401	1.401	(0.320)	190354	50.0000	53
3	Vinyl Chloride	62	1.490	1.490	(0.341)	128894	50.0000	50
4	Bromomethane	94	1.706	1.706	(0.390)	80482	50.0000	49
5	Chloroethane	64	1.765	1.765	(0.404)	86203	50.0000	49
6	Trichlorofluoromethane	101	1.933	1.933	(0.442)	135452	50.0000	51
7	Ethanol	46	2.022	2.022	(0.462)	64563	5000.00	4100(Q)
8	Ether	59	2.081	2.081	(0.476)	103294	50.0000	46
9	Acrolein	56	2.169	2.169	(0.496)	122585	250.000	220
18	1,1-Dichloroethene	96	2.268	2.268	(0.518)	92347	50.0000	49
11	Acetone	58	2.268	2.268	(0.518)	11679	50.0000	45(Q)
10	1,1,2-Trichloro-1,2,2-trifluo	101	2.287	2.287	(0.523)	104487	50.0000	47
12	Iodomethane	142	2.386	2.386	(0.545)	135302	50.0000	49
13	Carbon Disulfide	76	2.396	2.396	(0.548)	235050	50.0000	48
14	Acetonitrile	40	2.484	2.484	(0.568)	104422	500.000	320(Q)
20	Methyl Acetate	43	2.494	2.494	(0.570)	132154	50.0000	44
16	Methylene Chloride	84	2.563	2.563	(0.586)	107033	50.0000	49
25	tert-Butanol	59	2.642	2.642	(0.604)	22036	100.000	85
17	Acrylonitrile	53	2.721	2.721	(0.622)	44478	50.0000	46
19	trans-1,2-Dichloroethene	96	2.760	2.760	(0.631)	105211	50.0000	50
21	Methyl tert-butyl ether	73	2.760	2.760	(0.631)	279192	50.0000	46

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1432.D
Report Date: 02-Oct-2014 13:36

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	23	1,1-Dichloroethane	63	3.046	3.046	(0.696)	178742	50.0000	50
	15	Vinyl acetate	43	3.095	3.095	(0.707)	544999	50.0000	47
	22	Diisopropyl Ether	45	3.105	3.105	(0.710)	642904	50.0000	49
	24	Ethyl tert-butyl ether	59	3.371	3.371	(0.770)	402515	50.0000	48
	27	cis-1,2-Dichloroethene	96	3.469	3.469	(0.793)	111021	50.0000	51
	28	2-Butanone	72	3.479	3.479	(0.795)	9901	50.0000	45(Q)
	29	2,2-Dichloropropane	77	3.469	3.469	(0.793)	68820	50.0000	50
	30	Bromochloromethane	128	3.647	3.647	(0.833)	57090	50.0000	48
	26	Tetrahydrofuran	72	3.686	3.686	(0.842)	20342	100.000	83
	31	Chloroform	83	3.706	3.706	(0.847)	190866	50.0000	50
$	32	Dibromofluoromethane	113	3.834	3.834	(0.876)	124078	50.0000	49
	33	1,1,1-Trichloroethane	97	3.863	3.863	(0.883)	155890	50.0000	50
	34	Cyclohexane	56	3.942	3.942	(0.901)	226037	50.0000	49
	36	1,1-Dichloropropene	110	3.991	3.991	(0.912)	47808	50.0000	50
	37	Carbon Tetrachloride	117	4.001	4.001	(0.914)	157679	50.0000	50
$	39	1,2-Dichloroethane-d4	102	4.100	4.100	(0.937)	28120	50.0000	53
	40	1,2-Dichloroethane	62	4.159	4.159	(0.950)	152427	50.0000	49
	41	Benzene	78	4.159	4.159	(0.950)	367650	50.0000	49
	42	tert-Amyl methyl ether	73	4.248	4.248	(0.971)	273594	50.0000	46
*	43	Fluorobenzene	96	4.376	4.376	(1.000)	389863	50.0000	
	44	Trichloroethene	130	4.691	4.691	(1.072)	107697	50.0000	49
	45	Methylcyclohexane	83	4.868	4.868	(1.113)	169618	50.0000	49
	46	1,2-Dichloropropane	63	4.878	4.878	(1.115)	113471	50.0000	48
	47	Dibromomethane	93	4.976	4.976	(1.137)	60798	50.0000	47
	48	1,4-Dioxane	88	4.996	4.996	(1.142)	15694	1000.00	670
	49	Bromodichloromethane	83	5.114	5.114	(1.169)	146069	50.0000	49
M	38	1,2-dichloroethene, (Total)	100				216232	100.000	(a)
	50	2-Chloroethyl vinyl ether	63	5.390	5.390	(1.232)	27275	50.0000	45
	51	cis-1,3-Dichloropropene	75	5.528	5.528	(1.263)	161666	50.0000	49
	52	4-Methyl-2-pentanone	43	5.676	5.676	(1.297)	137798	50.0000	42
$	53	Toluene-d8	98	5.784	5.784	(0.801)	346634	50.0000	52
	54	Toluene	91	5.853	5.853	(1.338)	355520	50.0000	50
	55	trans-1,3-Dichloropropene	75	6.050	6.050	(1.383)	140893	50.0000	48
	56	1,1,2-Trichloroethane	97	6.227	6.227	(1.423)	73769	50.0000	48
	57	Tetrachloroethene	164	6.385	6.385	(0.884)	80346	50.0000	48
	58	1,3-Dichloropropane	76	6.395	6.395	(0.885)	133854	50.0000	50
	59	2-Hexanone	43	6.493	6.493	(0.899)	92219	50.0000	42
	60	Dibromochloromethane	129	6.621	6.621	(0.917)	113435	50.0000	49
	61	1,2-Dibromoethane	107	6.730	6.730	(0.932)	83446	50.0000	50
*	62	Chlorobenzene-d5	117	7.222	7.222	(1.000)	261354	50.0000	
	63	1-Chlorohexane	91	7.252	7.252	(1.004)	141642	50.0000	49(Q)
	64	Chlorobenzene	112	7.252	7.252	(1.004)	239008	50.0000	50
	65	1,1,1,2-Tetrachloroethane	131	7.340	7.340	(1.016)	103114	50.0000	51
	66	Ethylbenzene	106	7.390	7.390	(1.023)	119293	50.0000	49
	67	m,p-Xylene	106	7.518	7.518	(1.041)	294715	100.000	98
	68	o-Xylene	106	7.941	7.941	(1.100)	141882	50.0000	49
	69	Styrene	104	7.951	7.951	(1.101)	248178	50.0000	50
	70	Bromoform	173	8.128	8.128	(1.125)	62139	50.0000	49
	71	Isopropylbenzene	105	8.355	8.355	(1.157)	386014	50.0000	49
	72	trans-1,4-Dichloro-2-butene	75	8.414	8.414	(1.165)	26150	50.0000	48
$	73	Bromofluorobenzene	95	8.512	8.512	(1.179)	129567	50.0000	50
	74	Bromobenzene	156	8.670	8.670	(0.885)	91334	50.0000	48
	75	1,1,2,2-Tetrachloroethane	83	8.680	8.680	(0.886)	92793	50.0000	46
	76	1,2,3-Trichloropropane	75	8.719	8.719	(0.890)	96674	50.0000	45

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1432.D
Report Date: 02-Oct-2014 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	77 n-Propylbenzene	120	8.828	8.828	(0.901)	92417	50.0000	49	
	78 2-Chlorotoluene	126	8.906	8.906	(0.909)	88154	50.0000	49	
	79 1,3,5-Trimethylbenzene	105	9.034	9.034	(0.923)	302047	50.0000	49	
	80 4-Chlorotoluene	126	9.034	9.034	(0.923)	89038	50.0000	48	
	81 tert-Butylbenzene	119	9.399	9.399	(0.960)	318357	50.0000	49	
	82 1,2,4-Trimethylbenzene	105	9.448	9.448	(0.965)	280964	50.0000	48	
	83 sec-Butylbenzene	105	9.635	9.635	(0.984)	401194	50.0000	49	
	84 1,3-Dichlorobenzene	146	9.724	9.724	(0.993)	169054	50.0000	48	
	85 4-Isopropyltoluene	119	9.793	9.793	(1.000)	317589	50.0000	49	
*	86 1,4-Dichlorobenzene-d4	152	9.793	9.793	(1.000)	112637	50.0000		(Q)
	87 1,4-Dichlorobenzene	146	9.822	9.822	(1.003)	167076	50.0000	47	
	88 1,2-Dichlorobenzene	146	10.197	10.197	(1.041)	158417	50.0000	49	
	89 n-Butylbenzene	91	10.216	10.216	(1.043)	265311	50.0000	48	
	91 1,2-Dibromo-3-chloropropane	75	10.945	10.945	(1.118)	13554	50.0000	48	
	93 1,3,5-Trichlorobenzene	182	11.162	11.162	(2.551)	100033	50.0000	48	
	92 1,2,4-Trichlorobenzene	180	11.714	11.714	(1.196)	69635	50.0000	48	
	94 Hexachlorobutadiene	225	11.881	11.881	(1.213)	46794	50.0000	47	
	95 Naphthalene	128	11.920	11.921	(1.217)	133626	50.0000	43	
	96 1,2,3-Trichlorobenzene	180	12.137	12.138	(1.239)	58340	50.0000	49	
M	90 Xylene (Total)	106				436597	150.000		(a)

QC Flag Legend

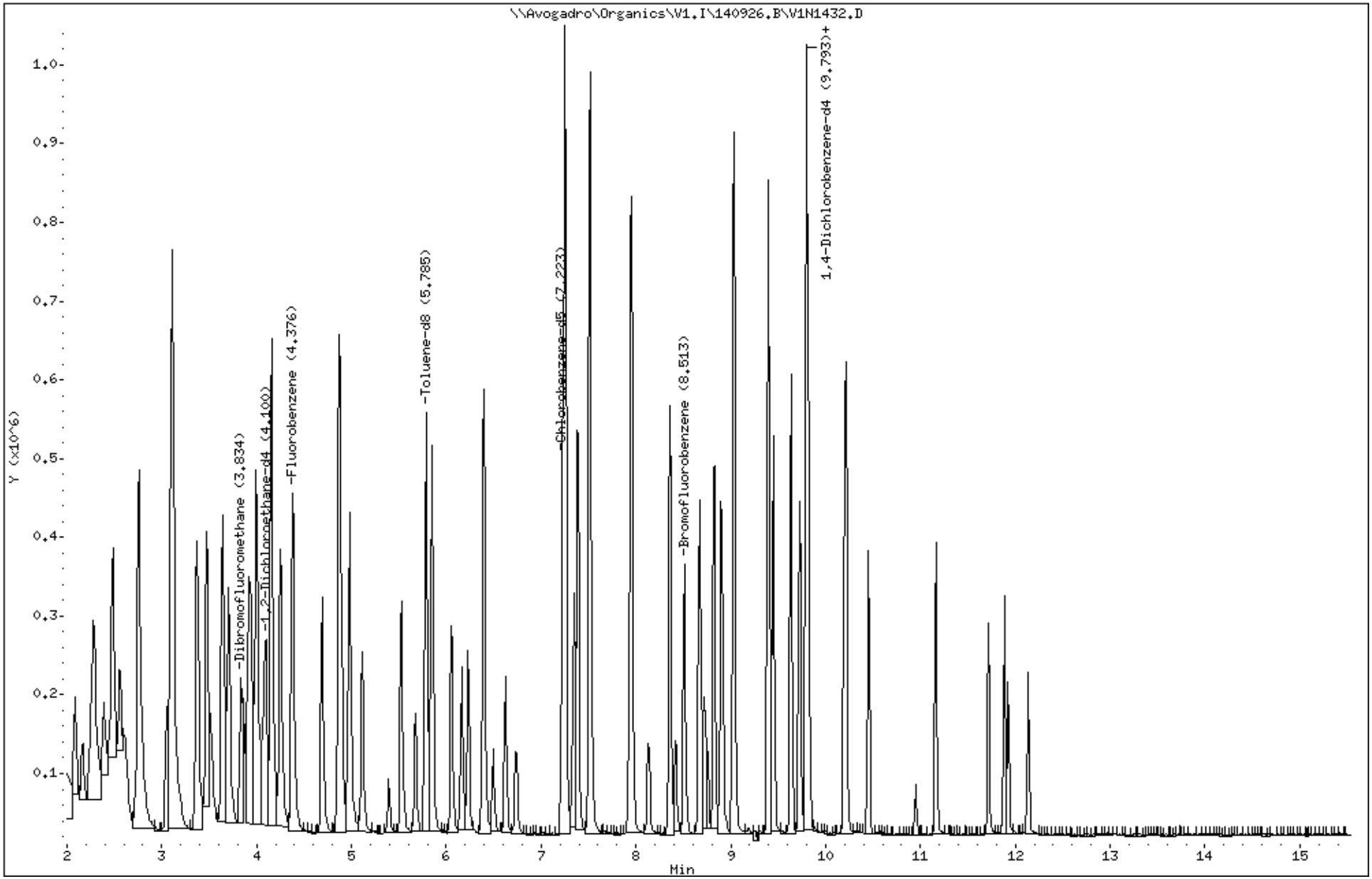
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1432.D
Date : 26-SEP-2014 09:18
Client ID: VSTD0501A
Sample Info: 5ML,VSTD0501A,VSTD0501A

Instrument: V1.i

Operator: WL SRC: WL
Column diameter: 0.25

Column phase: DB-624



Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1433.D
Report Date: 02-Oct-2014 13:36

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\140926.B\V1N1433.D
Lab Smp Id: VSTD0201A Client Smp ID: VSTD0201A
Inj Date : 26-SEP-2014 09:56
Operator : WL   SRC: WL Inst ID: V1.i
Smp Info : 5ML,VSTD0201A,VSTD0201A
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\140926.B\v18260GH.m
Meth Date : 02-Oct-2014 13:35 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 09:56 Cal File: V1N1433.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.257	1.263	(0.288)	25111	20.0000	20
2	Chloromethane	50	1.395	1.401	(0.319)	67114	20.0000	20
3	Vinyl Chloride	62	1.483	1.490	(0.340)	43824	20.0000	18
4	Bromomethane	94	1.700	1.706	(0.389)	27773	20.0000	18
5	Chloroethane	64	1.759	1.765	(0.403)	30545	20.0000	19
6	Trichlorofluoromethane	101	1.927	1.933	(0.441)	46719	20.0000	19
7	Ethanol	46	2.025	2.022	(0.464)	19524	2000.00	1400
8	Ether	59	2.084	2.081	(0.477)	37276	20.0000	18
9	Acrolein	56	2.163	2.169	(0.495)	47920	100.000	92
18	1,1-Dichloroethene	96	2.271	2.268	(0.520)	33892	20.0000	20
11	Acetone	58	2.271	2.268	(0.520)	4540	20.0000	19(Q)
10	1,1,2-Trichloro-1,2,2-trifluo	101	2.281	2.287	(0.522)	38677	20.0000	19
12	Iodomethane	142	2.380	2.386	(0.545)	49814	20.0000	20
13	Carbon Disulfide	76	2.390	2.396	(0.547)	90368	20.0000	20
14	Acetonitrile	40	2.468	2.484	(0.565)	44079	200.000	150(Q)
20	Methyl Acetate	43	2.488	2.494	(0.569)	47701	20.0000	18
16	Methylene Chloride	84	2.557	2.563	(0.585)	37042	20.0000	18
25	tert-Butanol	59	2.646	2.642	(0.606)	8772	40.0000	37
17	Acrylonitrile	53	2.725	2.721	(0.624)	17084	20.0000	19
19	trans-1,2-Dichloroethene	96	2.754	2.760	(0.630)	36161	20.0000	19
21	Methyl tert-butyl ether	73	2.754	2.760	(0.630)	103216	20.0000	19

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1433.D
Report Date: 02-Oct-2014 13:36

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	23	1,1-Dichloroethane	63	3.050	3.046	(0.698)	63902	20.0000	20
	15	Vinyl acetate	43	3.099	3.095	(0.709)	194435	20.0000	18
	22	Diisopropyl Ether	45	3.099	3.105	(0.709)	229441	20.0000	19
	24	Ethyl tert-butyl ether	59	3.365	3.371	(0.770)	142726	20.0000	19
	27	cis-1,2-Dichloroethene	96	3.473	3.469	(0.795)	37841	20.0000	19
	28	2-Butanone	72	3.473	3.479	(0.795)	3485	20.0000	17(Q)
	29	2,2-Dichloropropane	77	3.473	3.469	(0.795)	24992	20.0000	20
	30	Bromochloromethane	128	3.650	3.647	(0.835)	19686	20.0000	18
	26	Tetrahydrofuran	72	3.700	3.686	(0.847)	8137	40.0000	36
	31	Chloroform	83	3.709	3.706	(0.849)	66168	20.0000	19
$	32	Dibromofluoromethane	113	3.828	3.834	(0.876)	119556	50.0000	52
	33	1,1,1-Trichloroethane	97	3.857	3.863	(0.883)	55233	20.0000	19(Q)
	34	Cyclohexane	56	3.926	3.942	(0.899)	81137	20.0000	19
	36	1,1-Dichloropropene	110	3.985	3.991	(0.912)	16756	20.0000	19
	37	Carbon Tetrachloride	117	3.995	4.001	(0.914)	56776	20.0000	20
$	39	1,2-Dichloroethane-d4	102	4.094	4.100	(0.937)	24927	50.0000	51
	40	1,2-Dichloroethane	62	4.153	4.159	(0.950)	53520	20.0000	19
	41	Benzene	78	4.153	4.159	(0.950)	128370	20.0000	19
	42	tert-Amyl methyl ether	73	4.241	4.248	(0.971)	99088	20.0000	18
*	43	Fluorobenzene	96	4.369	4.376	(1.000)	356858	50.0000	
	44	Trichloroethene	130	4.685	4.691	(1.072)	39068	20.0000	19
	45	Methylcyclohexane	83	4.862	4.868	(1.113)	62833	20.0000	20
	46	1,2-Dichloropropane	63	4.872	4.878	(1.115)	40800	20.0000	19
	47	Dibromomethane	93	4.970	4.976	(1.137)	22193	20.0000	19
	48	1,4-Dioxane	88	4.990	4.996	(1.142)	6870	400.000	320
	49	Bromodichloromethane	83	5.108	5.114	(1.169)	50554	20.0000	18
M	38	1,2-dichloroethene, (Total)	100				74002	40.0000	(a)
	50	2-Chloroethyl vinyl ether	63	5.384	5.390	(1.232)	8760	20.0000	16
	51	cis-1,3-Dichloropropene	75	5.522	5.528	(1.264)	55883	20.0000	18
	52	4-Methyl-2-pentanone	43	5.670	5.676	(1.298)	52883	20.0000	18
$	53	Toluene-d8	98	5.778	5.784	(0.800)	321197	50.0000	51
	54	Toluene	91	5.847	5.853	(1.338)	121039	20.0000	19
	55	trans-1,3-Dichloropropene	75	6.054	6.050	(1.385)	49456	20.0000	18
	56	1,1,2-Trichloroethane	97	6.221	6.227	(1.424)	24477	20.0000	18
	57	Tetrachloroethene	164	6.379	6.385	(0.883)	30265	20.0000	19
	58	1,3-Dichloropropane	76	6.389	6.395	(0.884)	47306	20.0000	18
	59	2-Hexanone	43	6.487	6.493	(0.898)	38946	20.0000	19
	60	Dibromochloromethane	129	6.615	6.621	(0.915)	39736	20.0000	18(T)
	61	1,2-Dibromoethane	107	6.733	6.730	(0.932)	28799	20.0000	18
*	62	Chlorobenzene-d5	117	7.226	7.222	(1.000)	249043	50.0000	
	63	1-Chlorohexane	91	7.245	7.252	(1.003)	53271	20.0000	19(Q)
	64	Chlorobenzene	112	7.255	7.252	(1.004)	86197	20.0000	19
	65	1,1,1,2-Tetrachloroethane	131	7.344	7.340	(1.016)	35368	20.0000	18
	66	Ethylbenzene	106	7.383	7.390	(1.022)	43565	20.0000	19
	67	m,p-Xylene	106	7.511	7.518	(1.040)	108217	40.0000	38
	68	o-Xylene	106	7.935	7.941	(1.098)	51010	20.0000	18
	69	Styrene	104	7.955	7.951	(1.101)	87663	20.0000	18
	70	Bromoform	173	8.132	8.128	(1.125)	20932	20.0000	17
	71	Isopropylbenzene	105	8.358	8.355	(1.157)	145033	20.0000	19
	72	trans-1,4-Dichloro-2-butene	75	8.418	8.414	(1.165)	8706	20.0000	17
$	73	Bromofluorobenzene	95	8.506	8.512	(1.177)	121928	50.0000	50
	74	Bromobenzene	156	8.674	8.670	(0.885)	32199	20.0000	19
	75	1,1,2,2-Tetrachloroethane	83	8.684	8.680	(0.886)	34981	20.0000	19
	76	1,2,3-Trichloropropane	75	8.723	8.719	(0.890)	35903	20.0000	18

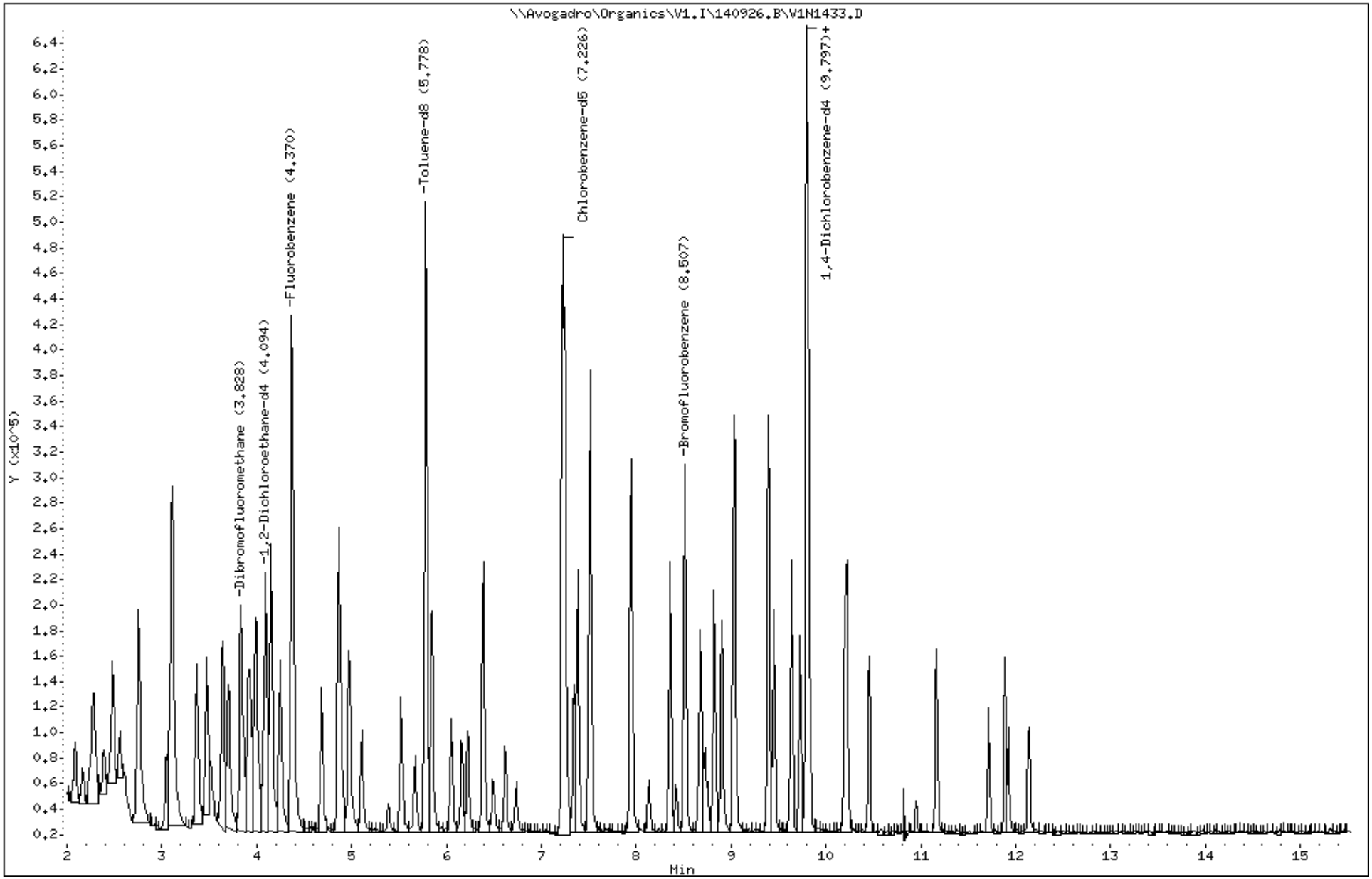
Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1433.D
Report Date: 02-Oct-2014 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	77 n-Propylbenzene	120	8.821	8.828	(0.900)	34332	20.0000	20	
	78 2-Chlorotoluene	126	8.900	8.906	(0.909)	31557	20.0000	19	
	79 1,3,5-Trimethylbenzene	105	9.038	9.034	(0.923)	111616	20.0000	20	
	80 4-Chlorotoluene	126	9.028	9.034	(0.922)	32887	20.0000	20	
	81 tert-Butylbenzene	119	9.393	9.399	(0.959)	120459	20.0000	20	
	82 1,2,4-Trimethylbenzene	105	9.452	9.448	(0.965)	103969	20.0000	20	
	83 sec-Butylbenzene	105	9.639	9.635	(0.984)	151868	20.0000	20	
	84 1,3-Dichlorobenzene	146	9.728	9.724	(0.993)	62172	20.0000	20	
	85 4-Isopropyltoluene	119	9.797	9.793	(1.000)	119837	20.0000	20	
*	86 1,4-Dichlorobenzene-d4	152	9.797	9.793	(1.000)	102145	50.0000		
	87 1,4-Dichlorobenzene	146	9.826	9.822	(1.003)	63588	20.0000	20	
	88 1,2-Dichlorobenzene	146	10.200	10.197	(1.041)	57317	20.0000	19	
	89 n-Butylbenzene	91	10.220	10.216	(1.043)	99610	20.0000	20	
	91 1,2-Dibromo-3-chloropropane	75	10.949	10.945	(1.118)	5035	20.0000	20	
	93 1,3,5-Trichlorobenzene	182	11.166	11.162	(2.555)	39357	20.0000	20	
	92 1,2,4-Trichlorobenzene	180	11.717	11.714	(1.196)	27991	20.0000	21	
	94 Hexachlorobutadiene	225	11.885	11.881	(1.213)	20471	20.0000	23	
	95 Naphthalene	128	11.924	11.921	(1.217)	58017	20.0000	21	
	96 1,2,3-Trichlorobenzene	180	12.141	12.138	(1.239)	23202	20.0000	22	
M	90 Xylene (Total)	106				159227	60.0000		(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1433.D
Date : 26-SEP-2014 09:56
Client ID: VSTD0201A
Instrument: V1.i
Sample Info: 5ML,VSTD0201A,VSTD0201A
Operator: WL SRC: WL
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1434.D
Report Date: 02-Oct-2014 13:36

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\140926.B\V1N1434.D
Lab Smp Id: VSTD0051A Client Smp ID: VSTD0051A
Inj Date : 26-SEP-2014 10:23
Operator : WL   SRC: WL Inst ID: V1.i
Smp Info : 5ML,VSTD0051A,VSTD0051A
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\140926.B\v18260GH.m
Meth Date : 02-Oct-2014 13:35 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 16 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
1	Dichlorodifluoromethane	85	1.276	1.263	(0.291)	6315	5.00000	5	
2	Chloromethane	50	1.395	1.401	(0.318)	16403	5.00000	5	
3	Vinyl Chloride	62	1.473	1.490	(0.336)	10688	5.00000	4	
4	Bromomethane	94	1.680	1.706	(0.383)	6750	5.00000	4	
5	Chloroethane	64	1.769	1.765	(0.403)	7915	5.00000	5	
6	Trichlorofluoromethane	101	1.956	1.933	(0.446)	9544	5.00000	4	
8	Ether	59	2.094	2.081	(0.477)	9460	5.00000	5	
9	Acrolein	56	2.173	2.169	(0.495)	12072	25.0000	23	
18	1,1-Dichloroethene	96	2.271	2.268	(0.518)	8301	5.00000	5	
11	Acetone	58	2.271	2.268	(0.518)	1131	5.00000	5	
10	1,1,2-Trichloro-1,2,2-trifluo	101	2.291	2.287	(0.522)	9861	5.00000	5	
12	Iodomethane	142	2.389	2.386	(0.544)	11352	5.00000	4	
13	Carbon Disulfide	76	2.389	2.396	(0.544)	20715	5.00000	5	
14	Acetonitrile	40	2.448	2.484	(0.558)	12260	50.0000	50(M)M1 AM 10/02	
20	Methyl Acetate	43	2.498	2.494	(0.569)	13042	5.00000	5	
16	Methylene Chloride	84	2.557	2.563	(0.583)	10703	5.00000	5	
25	tert-Butanol	59	2.665	2.642	(0.607)	2393	10.0000	10	
17	Acrylonitrile	53	2.734	2.721	(0.623)	4216	5.00000	5	
19	trans-1,2-Dichloroethene	96	2.764	2.760	(0.630)	9701	5.00000	5	
21	Methyl tert-butyl ether	73	2.764	2.760	(0.630)	27716	5.00000	5	
23	1,1-Dichloroethane	63	3.049	3.046	(0.695)	15999	5.00000	5	

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	15	Vinyl acetate	43	3.108	3.095	(0.708)	54353	5.00000	5
	22	Diisopropyl Ether	45	3.108	3.105	(0.708)	60643	5.00000	5
	24	Ethyl tert-butyl ether	59	3.374	3.371	(0.769)	37373	5.00000	5
	27	cis-1,2-Dichloroethene	96	3.483	3.469	(0.794)	9328	5.00000	5
	28	2-Butanone	72	3.493	3.479	(0.796)	870	5.00000	4(T)
	29	2,2-Dichloropropane	77	3.483	3.469	(0.794)	7046	5.00000	6
	30	Bromochloromethane	128	3.660	3.647	(0.834)	5638	5.00000	5
	26	Tetrahydrofuran	72	3.699	3.686	(0.843)	2381	10.0000	10
	31	Chloroform	83	3.719	3.706	(0.847)	17806	5.00000	5
$	32	Dibromofluoromethane	113	3.837	3.834	(0.874)	120082	50.0000	52
	33	1,1,1-Trichloroethane	97	3.867	3.863	(0.881)	13853	5.00000	5
	34	Cyclohexane	56	3.936	3.942	(0.897)	21099	5.00000	5
	36	1,1-Dichloropropene	110	3.995	3.991	(0.910)	4270	5.00000	5
	37	Carbon Tetrachloride	117	4.005	4.001	(0.912)	14306	5.00000	5
$	39	1,2-Dichloroethane-d4	102	4.113	4.100	(0.937)	23611	50.0000	48
	40	1,2-Dichloroethane	62	4.162	4.159	(0.948)	15036	5.00000	5
	41	Benzene	78	4.162	4.159	(0.948)	33855	5.00000	5
	42	tert-Amyl methyl ether	73	4.261	4.248	(0.971)	27265	5.00000	5
*	43	Fluorobenzene	96	4.389	4.376	(1.000)	358710	50.0000	
	44	Trichloroethene	130	4.694	4.691	(1.070)	9931	5.00000	5
	45	Methylcyclohexane	83	4.871	4.868	(1.110)	15303	5.00000	5
	46	1,2-Dichloropropane	63	4.881	4.878	(1.112)	11319	5.00000	5(T)
	47	Dibromomethane	93	4.980	4.976	(1.135)	6033	5.00000	5
	48	1,4-Dioxane	88	5.019	4.996	(1.144)	1339	40.0000	62
	49	Bromodichloromethane	83	5.118	5.114	(1.166)	14240	5.00000	5
M	38	1,2-dichloroethene, (Total)	100				19029	10.0000	(a)
	50	2-Chloroethyl vinyl ether	63	5.393	5.390	(1.229)	2410	5.00000	4(T)
	51	cis-1,3-Dichloropropene	75	5.531	5.528	(1.260)	14525	5.00000	5
	52	4-Methyl-2-pentanone	43	5.679	5.676	(1.294)	15610	5.00000	5
$	53	Toluene-d8	98	5.787	5.784	(0.800)	321641	50.0000	52
	54	Toluene	91	5.856	5.853	(1.334)	32075	5.00000	5
	55	trans-1,3-Dichloropropene	75	6.063	6.050	(1.381)	12742	5.00000	5
	56	1,1,2-Trichloroethane	97	6.231	6.227	(1.420)	6839	5.00000	5
	57	Tetrachloroethene	164	6.398	6.385	(0.884)	8777	5.00000	6
	58	1,3-Dichloropropane	76	6.398	6.395	(0.884)	12162	5.00000	5
	59	2-Hexanone	43	6.506	6.493	(0.899)	11062	5.00000	5
	60	Dibromochloromethane	129	6.635	6.621	(0.917)	10674	5.00000	5(T)
	61	1,2-Dibromoethane	107	6.743	6.730	(0.932)	7492	5.00000	5(T)
*	62	Chlorobenzene-d5	117	7.235	7.222	(1.000)	246731	50.0000	
	63	1-Chlorohexane	91	7.255	7.252	(1.003)	14035	5.00000	5
	64	Chlorobenzene	112	7.265	7.252	(1.004)	22999	5.00000	5
	65	1,1,1,2-Tetrachloroethane	131	7.354	7.340	(1.016)	9235	5.00000	5
	66	Ethylbenzene	106	7.393	7.390	(1.022)	11908	5.00000	5
	67	m,p-Xylene	106	7.521	7.518	(1.039)	27830	10.0000	10
	68	o-Xylene	106	7.945	7.941	(1.098)	13827	5.00000	5
	69	Styrene	104	7.964	7.951	(1.101)	22072	5.00000	5
	70	Bromoform	173	8.142	8.128	(1.125)	5456	5.00000	4(T)
	71	Isopropylbenzene	105	8.368	8.355	(1.157)	37481	5.00000	5
	72	trans-1,4-Dichloro-2-butene	75	8.427	8.414	(1.165)	1914	5.00000	4
$	73	Bromofluorobenzene	95	8.516	8.512	(1.177)	119059	50.0000	49
	74	Bromobenzene	156	8.673	8.670	(0.885)	8492	5.00000	5
	75	1,1,2,2-Tetrachloroethane	83	8.683	8.680	(0.886)	9337	5.00000	5
	76	1,2,3-Trichloropropane	75	8.733	8.719	(0.891)	9637	5.00000	5
	77	n-Propylbenzene	120	8.831	8.828	(0.901)	8210	5.00000	5

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1434.D
Report Date: 02-Oct-2014 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
78	2-Chlorotoluene	126	8.910	8.906	(0.910)	8411	5.00000	5	
79	1,3,5-Trimethylbenzene	105	9.038	9.034	(0.923)	28804	5.00000	5	
80	4-Chlorotoluene	126	9.038	9.034	(0.923)	8784	5.00000	5	
81	tert-Butylbenzene	119	9.392	9.399	(0.959)	29587	5.00000	5	
82	1,2,4-Trimethylbenzene	105	9.452	9.448	(0.965)	27727	5.00000	5	
83	sec-Butylbenzene	105	9.639	9.635	(0.984)	37805	5.00000	5	
84	1,3-Dichlorobenzene	146	9.727	9.724	(0.993)	15785	5.00000	5	
85	4-Isopropyltoluene	119	9.806	9.793	(1.001)	29347	5.00000	5	
* 86	1,4-Dichlorobenzene-d4	152	9.796	9.793	(1.000)	98613	50.0000		
87	1,4-Dichlorobenzene	146	9.826	9.822	(1.003)	16107	5.00000	5	
88	1,2-Dichlorobenzene	146	10.200	10.197	(1.041)	14869	5.00000	5	
89	n-Butylbenzene	91	10.220	10.216	(1.043)	24921	5.00000	5	
91	1,2-Dibromo-3-chloropropane	75	10.959	10.945	(1.119)	1190	5.00000	5	
93	1,3,5-Trichlorobenzene	182	11.165	11.162	(2.544)	10231	5.00000	5	
92	1,2,4-Trichlorobenzene	180	11.717	11.714	(1.196)	6980	5.00000	6	
94	Hexachlorobutadiene	225	11.884	11.881	(1.213)	5297	5.00000	6	
95	Naphthalene	128	11.924	11.921	(1.217)	16777	5.00000	6	
96	1,2,3-Trichlorobenzene	180	12.140	12.138	(1.239)	6203	5.00000	6	
M 90	Xylene (Total)	106				41657	15.0000		(a)

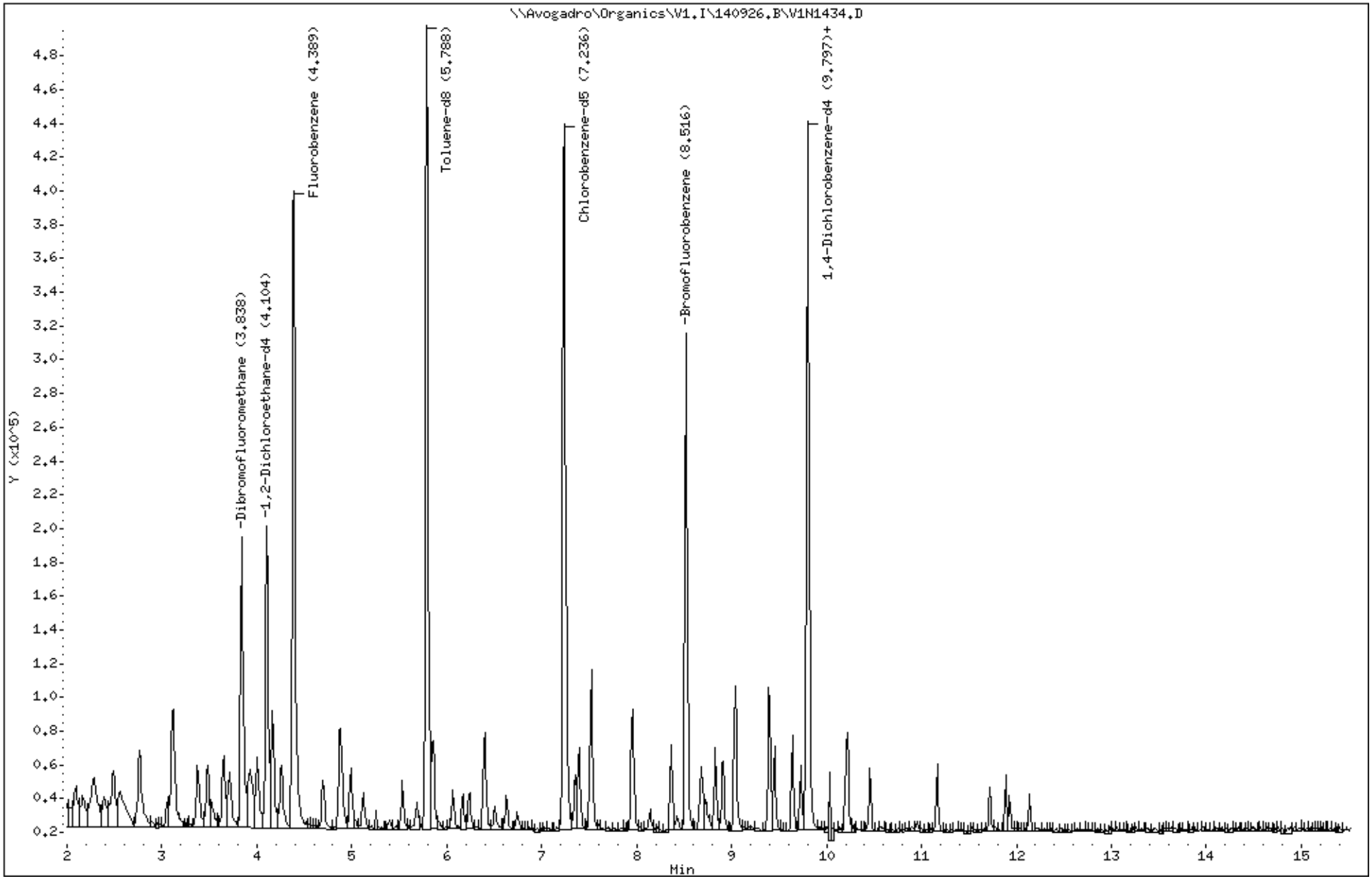
QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1434.D
Date : 26-SEP-2014 10:23
Client ID: VSTD0051A
Sample Info: 5ML,VSTD0051A,VSTD0051A

Instrument: V1.i

Operator: WL SRC: WL
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1435.D
Report Date: 02-Oct-2014 13:36

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\140926.B\V1N1435.D
Lab Smp Id: VSTD2001A Client Smp ID: VSTD2001A
Inj Date : 26-SEP-2014 10:51
Operator : WL SRC: WL Inst ID: V1.i
Smp Info : 5ML,VSTD2001A,VSTD2001A
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\140926.B\v18260GH.m
Meth Date : 02-Oct-2014 13:35 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:51 Cal File: V1N1435.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.260	1.263	(0.288)	257408	200.000	200
2	Chloromethane	50	1.408	1.401	(0.321)	711000	200.000	210(A)
3	Vinyl Chloride	62	1.486	1.490	(0.339)	502064	200.000	210(A)
4	Bromomethane	94	1.693	1.706	(0.386)	329640	200.000	210(A)
5	Chloroethane	64	1.752	1.765	(0.400)	334211	200.000	200
6	Trichlorofluoromethane	101	1.939	1.933	(0.443)	534764	200.000	220(A)
7	Ethanol	46	2.028	2.022	(0.463)	343154	20000.0	23000(Q)
8	Ether	59	2.087	2.081	(0.476)	468309	200.000	220(A)
9	Acrolein	56	2.166	2.169	(0.494)	581047	1000.00	1100(A)
18	1,1-Dichloroethene	96	2.265	2.268	(0.517)	360858	200.000	200(A)
11	Acetone	58	2.265	2.268	(0.517)	51380	200.000	210(AQ)
10	1,1,2-Trichloro-1,2,2-trifluo	101	2.284	2.287	(0.521)	433799	200.000	210(A)
12	Iodomethane	142	2.383	2.386	(0.544)	549348	200.000	210(A)
13	Carbon Disulfide	76	2.393	2.396	(0.546)	927110	200.000	200(A)
14	Acetonitrile	40	2.471	2.484	(0.564)	612493	2000.00	2000(Q)
20	Methyl Acetate	43	2.491	2.494	(0.568)	607782	200.000	220(A)
16	Methylene Chloride	84	2.560	2.563	(0.584)	412977	200.000	200
25	tert-Butanol	59	2.639	2.642	(0.602)	101792	400.000	420
17	Acrylonitrile	53	2.718	2.721	(0.620)	193103	200.000	210
19	trans-1,2-Dichloroethene	96	2.757	2.760	(0.629)	404286	200.000	200(A)
21	Methyl tert-butyl ether	73	2.757	2.760	(0.629)	1189700	200.000	210(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1-Dichloroethane	63	3.043	3.046	(0.694)	651457	200.000	190
	15 Vinyl acetate	43	3.082	3.095	(0.703)	2232636	200.000	200(A)
	22 Diisopropyl Ether	45	3.102	3.105	(0.708)	2478989	200.000	200(A)
	24 Ethyl tert-butyl ether	59	3.368	3.371	(0.769)	1625075	200.000	210(A)
	27 cis-1,2-Dichloroethene	96	3.466	3.469	(0.791)	416452	200.000	200
	28 2-Butanone	72	3.476	3.479	(0.793)	46428	200.000	220(AQ)
	29 2,2-Dichloropropane	77	3.476	3.469	(0.793)	235106	200.000	180
	30 Bromochloromethane	128	3.643	3.647	(0.831)	237472	200.000	210(A)
	26 Tetrahydrofuran	72	3.693	3.686	(0.843)	94587	400.000	410
	31 Chloroform	83	3.703	3.706	(0.845)	721367	200.000	200(A)
$	32 Dibromofluoromethane	113	3.831	3.834	(0.874)	116189	50.0000	49
	33 1,1,1-Trichloroethane	97	3.860	3.863	(0.881)	600415	200.000	200
	34 Cyclohexane	56	3.939	3.942	(0.899)	878224	200.000	200(A)
	36 1,1-Dichloropropene	110	3.988	3.991	(0.910)	190850	200.000	210(AQ)
	37 Carbon Tetrachloride	117	3.998	4.001	(0.912)	598355	200.000	200(A)
$	39 1,2-Dichloroethane-d4	102	4.097	4.100	(0.935)	22950	50.0000	46
	40 1,2-Dichloroethane	62	4.156	4.159	(0.948)	573383	200.000	200
	41 Benzene	78	4.156	4.159	(0.948)	1472332	200.000	210(A)
	42 tert-Amyl methyl ether	73	4.254	4.248	(0.971)	1161617	200.000	210(A)
*	43 Fluorobenzene	96	4.382	4.376	(1.000)	366697	50.0000	
	44 Trichloroethene	130	4.688	4.691	(1.070)	423974	200.000	200(A)
	45 Methylcyclohexane	83	4.865	4.868	(1.110)	674073	200.000	210(A)
	46 1,2-Dichloropropane	63	4.875	4.878	(1.112)	438832	200.000	200
	47 Dibromomethane	93	4.973	4.976	(1.135)	252852	200.000	210(A)
	48 1,4-Dioxane	88	4.993	4.996	(1.139)	80040	4000.00	3600
	49 Bromodichloromethane	83	5.111	5.114	(1.166)	565251	200.000	200(A)
M	38 1,2-dichloroethene, (Total)	100				820738	400.000	(a)
	50 2-Chloroethyl vinyl ether	63	5.397	5.390	(1.231)	140374	200.000	250(A)
	51 cis-1,3-Dichloropropene	75	5.525	5.528	(1.261)	643815	200.000	210(A)
	52 4-Methyl-2-pentanone	43	5.672	5.676	(1.294)	631246	200.000	210(A)
$	53 Toluene-d8	98	5.781	5.784	(0.800)	285726	50.0000	44
	54 Toluene	91	5.850	5.853	(1.335)	1363174	200.000	200(A)
	55 trans-1,3-Dichloropropene	75	6.057	6.050	(1.382)	579020	200.000	210(A)
	56 1,1,2-Trichloroethane	97	6.234	6.227	(1.423)	298636	200.000	210(A)
	57 Tetrachloroethene	164	6.392	6.385	(0.884)	322326	200.000	200
	58 1,3-Dichloropropane	76	6.401	6.395	(0.886)	539008	200.000	200(A)
	59 2-Hexanone	43	6.490	6.493	(0.898)	411348	200.000	190
	60 Dibromochloromethane	129	6.618	6.621	(0.916)	466023	200.000	210(A)
	61 1,2-Dibromoethane	107	6.736	6.730	(0.932)	340230	200.000	210(A)
*	62 Chlorobenzene-d5	117	7.229	7.222	(1.000)	255707	50.0000	
	63 1-Chlorohexane	91	7.248	7.252	(1.003)	574554	200.000	200(AQ)
	64 Chlorobenzene	112	7.258	7.252	(1.004)	954832	200.000	200(A)
	65 1,1,1,2-Tetrachloroethane	131	7.347	7.340	(1.016)	399326	200.000	200(A)
	66 Ethylbenzene	106	7.386	7.390	(1.022)	487186	200.000	200(A)
	67 m,p-Xylene	106	7.514	7.518	(1.040)	1200474	400.000	410(A)
	68 o-Xylene	106	7.938	7.941	(1.098)	577503	200.000	200(A)
	69 Styrene	104	7.958	7.951	(1.101)	1027189	200.000	210(A)
	70 Bromoform	173	8.135	8.128	(1.125)	272417	200.000	220(A)
	71 Isopropylbenzene	105	8.361	8.355	(1.157)	1558419	200.000	200(A)
	72 trans-1,4-Dichloro-2-butene	75	8.421	8.414	(1.165)	133839	200.000	250(A)
$	73 Bromofluorobenzene	95	8.509	8.512	(1.177)	127836	50.0000	51
	74 Bromobenzene	156	8.667	8.670	(0.884)	386031	200.000	200
	75 1,1,2,2-Tetrachloroethane	83	8.677	8.680	(0.885)	414097	200.000	200
	76 1,2,3-Trichloropropane	75	8.716	8.719	(0.889)	451867	200.000	200(A)

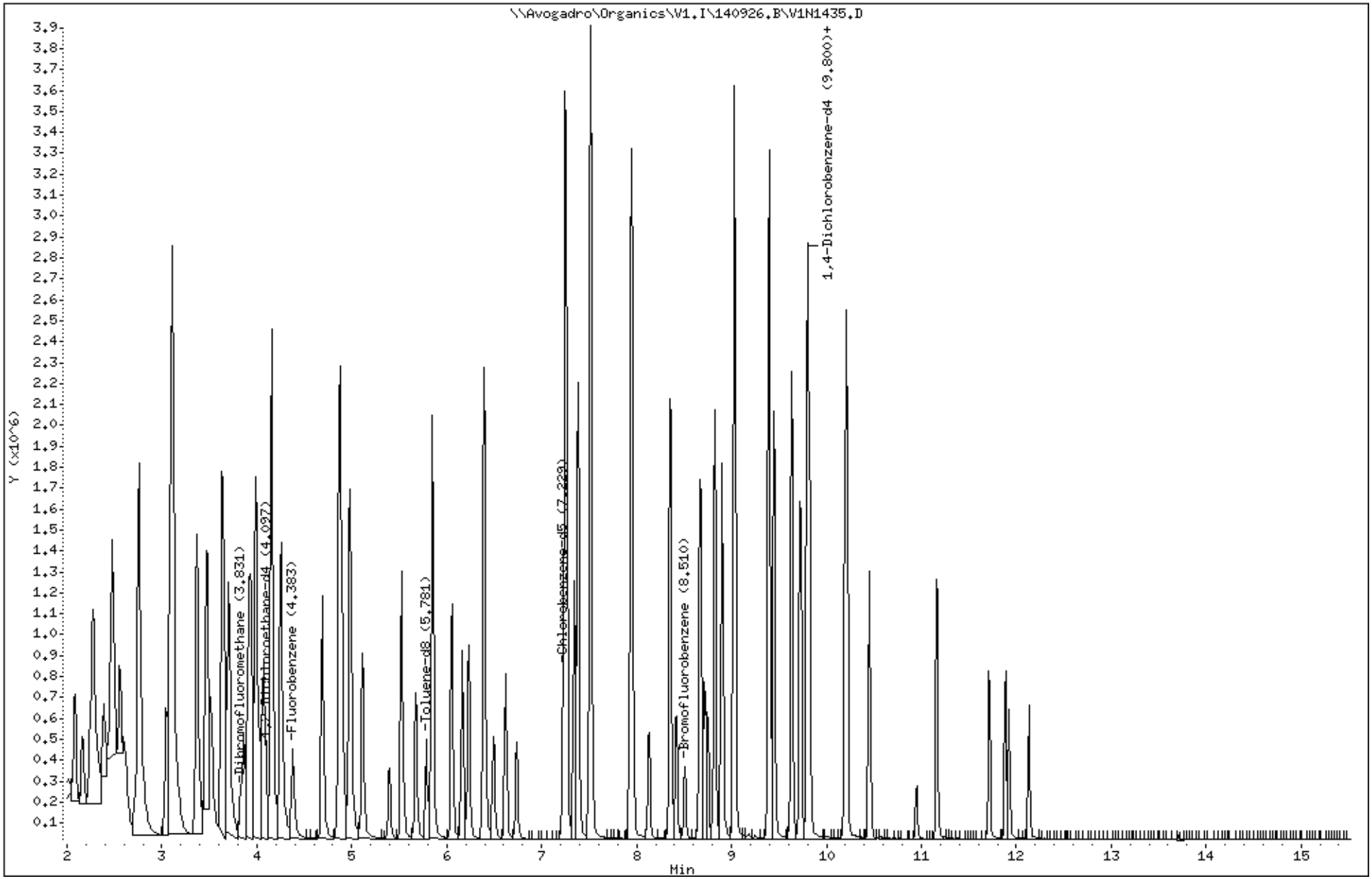
Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1435.D
Report Date: 02-Oct-2014 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77	n-Propylbenzene	120	8.824	8.828	(0.900)	389753	200.000	200(Q)
78	2-Chlorotoluene	126	8.903	8.906	(0.909)	359046	200.000	190
79	1,3,5-Trimethylbenzene	105	9.031	9.034	(0.922)	1178146	200.000	180
80	4-Chlorotoluene	126	9.031	9.034	(0.922)	372162	200.000	190
81	tert-Butylbenzene	119	9.396	9.399	(0.959)	1254805	200.000	180
82	1,2,4-Trimethylbenzene	105	9.445	9.448	(0.964)	1142106	200.000	190
83	sec-Butylbenzene	105	9.632	9.635	(0.983)	1602607	200.000	180
84	1,3-Dichlorobenzene	146	9.731	9.724	(0.993)	720327	200.000	200
85	4-Isopropyltoluene	119	9.799	9.793	(1.000)	1271039	200.000	180
* 86	1,4-Dichlorobenzene-d4	152	9.799	9.793	(1.000)	118543	50.0000	(Q)
87	1,4-Dichlorobenzene	146	9.819	9.822	(1.002)	734251	200.000	200
88	1,2-Dichlorobenzene	146	10.193	10.197	(1.040)	663603	200.000	190
89	n-Butylbenzene	91	10.213	10.216	(1.042)	1096457	200.000	190
91	1,2-Dibromo-3-chloropropane	75	10.952	10.945	(1.118)	54341	200.000	180(Q)
93	1,3,5-Trichlorobenzene	182	11.169	11.162	(2.548)	361164	200.000	180
92	1,2,4-Trichlorobenzene	180	11.720	11.714	(1.196)	238561	200.000	160
94	Hexachlorobutadiene	225	11.888	11.881	(1.213)	138961	200.000	130
95	Naphthalene	128	11.927	11.921	(1.217)	489147	200.000	150
96	1,2,3-Trichlorobenzene	180	12.134	12.138	(1.238)	167575	200.000	130
M 90	Xylene (Total)	106				1777977	600.000	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1435.D
Date : 26-SEP-2014 10:51
Client ID: VSTD2001A
Instrument: V1.i
Sample Info: 5ML,VSTD2001A,VSTD2001A
Operator: WL SRC: WL
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1436.D
Report Date: 02-Oct-2014 13:36

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\140926.B\V1N1436.D
Lab Smp Id: VSTD1001A Client Smp ID: VSTD1001A
Inj Date : 26-SEP-2014 11:18
Operator : WL   SRC: WL Inst ID: V1.i
Smp Info : 5ML,VSTD1001A,VSTD1001A
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\140926.B\v18260GH.m
Meth Date : 02-Oct-2014 13:35 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 11:18 Cal File: V1N1436.D
Als bottle: 18 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.257	1.263	(0.287)	109934	100.000	100
2	Chloromethane	50	1.395	1.401	(0.319)	265663	100.000	90
3	Vinyl Chloride	62	1.474	1.490	(0.337)	241784	100.000	110
4	Bromomethane	94	1.690	1.706	(0.386)	151172	100.000	110
5	Chloroethane	64	1.759	1.765	(0.402)	155293	100.000	110
6	Trichlorofluoromethane	101	1.937	1.933	(0.442)	243082	100.000	110
7	Ethanol	46	2.025	2.022	(0.463)	174379	10000.0	14000(Q)
8	Ether	59	2.084	2.081	(0.476)	199648	100.000	110
9	Acrolein	56	2.163	2.169	(0.494)	279785	500.000	600
18	1,1-Dichloroethene	96	2.262	2.268	(0.516)	169332	100.000	110
11	Acetone	58	2.262	2.268	(0.516)	23497	100.000	110
10	1,1,2-Trichloro-1,2,2-trifluo	101	2.281	2.287	(0.521)	202410	100.000	110
12	Iodomethane	142	2.380	2.386	(0.543)	249099	100.000	110
13	Carbon Disulfide	76	2.390	2.396	(0.546)	435922	100.000	110
14	Acetonitrile	40	2.468	2.484	(0.564)	229085	1000.00	1100(Q)
20	Methyl Acetate	43	2.488	2.494	(0.568)	288326	100.000	120
16	Methylene Chloride	84	2.557	2.563	(0.584)	189281	100.000	100
25	tert-Butanol	59	2.636	2.642	(0.602)	50271	200.000	240
17	Acrylonitrile	53	2.724	2.721	(0.622)	89990	100.000	110
19	trans-1,2-Dichloroethene	96	2.754	2.760	(0.629)	181448	100.000	100
21	Methyl tert-butyl ether	73	2.754	2.760	(0.629)	539684	100.000	110

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	23	1,1-Dichloroethane	63	3.050	3.046	(0.696)	308123	100.000	110
	15	Vinyl acetate	43	3.089	3.095	(0.705)	1020490	100.000	110
	22	Diisopropyl Ether	45	3.099	3.105	(0.708)	1132717	100.000	100
	24	Ethyl tert-butyl ether	59	3.365	3.371	(0.768)	733668	100.000	110
	27	cis-1,2-Dichloroethene	96	3.473	3.469	(0.793)	189232	100.000	110
	28	2-Butanone	72	3.473	3.479	(0.793)	22310	100.000	120(TQ)
	29	2,2-Dichloropropane	77	3.473	3.469	(0.793)	112859	100.000	100
	30	Bromochloromethane	128	3.650	3.647	(0.834)	104927	100.000	110
	26	Tetrahydrofuran	72	3.690	3.686	(0.843)	47719	200.000	240
	31	Chloroform	83	3.709	3.706	(0.847)	324739	100.000	100
$	32	Dibromofluoromethane	113	3.828	3.834	(0.874)	100347	50.0000	49
	33	1,1,1-Trichloroethane	97	3.857	3.863	(0.881)	268624	100.000	100
	34	Cyclohexane	56	3.936	3.942	(0.899)	396667	100.000	100
	36	1,1-Dichloropropene	110	3.995	3.991	(0.912)	82501	100.000	100
	37	Carbon Tetrachloride	117	3.995	4.001	(0.912)	270339	100.000	100
$	39	1,2-Dichloroethane-d4	102	4.094	4.100	(0.935)	22933	50.0000	52
	40	1,2-Dichloroethane	62	4.163	4.159	(0.951)	269738	100.000	100
	41	Benzene	78	4.153	4.159	(0.948)	645384	100.000	100
	42	tert-Amyl methyl ether	73	4.251	4.248	(0.971)	540204	100.000	110
*	43	Fluorobenzene	96	4.379	4.376	(1.000)	318636	50.0000	
	44	Trichloroethene	130	4.685	4.691	(1.070)	189273	100.000	100
	45	Methylcyclohexane	83	4.872	4.868	(1.112)	296253	100.000	100
	46	1,2-Dichloropropane	63	4.872	4.878	(1.112)	203082	100.000	100
	47	Dibromomethane	93	4.970	4.976	(1.135)	115948	100.000	110
	48	1,4-Dioxane	88	5.000	4.996	(1.142)	40494	2000.00	2100
	49	Bromodichloromethane	83	5.108	5.114	(1.166)	257393	100.000	100
M	38	1,2-dichloroethene, (Total)	100				370680	200.000	210
	50	2-Chloroethyl vinyl ether	63	5.394	5.390	(1.232)	59603	100.000	120
	51	cis-1,3-Dichloropropene	75	5.522	5.528	(1.261)	290187	100.000	110
	52	4-Methyl-2-pentanone	43	5.670	5.676	(1.295)	317664	100.000	120
$	53	Toluene-d8	98	5.788	5.784	(0.801)	287417	50.0000	50
	54	Toluene	91	5.847	5.853	(1.335)	616826	100.000	110
	55	trans-1,3-Dichloropropene	75	6.054	6.050	(1.382)	262177	100.000	110
	56	1,1,2-Trichloroethane	97	6.231	6.227	(1.423)	142035	100.000	110
	57	Tetrachloroethene	164	6.389	6.385	(0.884)	144154	100.000	100
	58	1,3-Dichloropropane	76	6.398	6.395	(0.886)	253918	100.000	110
	59	2-Hexanone	43	6.487	6.493	(0.898)	220560	100.000	120
	60	Dibromochloromethane	129	6.615	6.621	(0.915)	215587	100.000	110
	61	1,2-Dibromoethane	107	6.733	6.730	(0.932)	159776	100.000	110
*	62	Chlorobenzene-d5	117	7.226	7.222	(1.000)	225448	50.0000	
	63	1-Chlorohexane	91	7.255	7.252	(1.004)	257145	100.000	100(Q)
	64	Chlorobenzene	112	7.255	7.252	(1.004)	432808	100.000	100
	65	1,1,1,2-Tetrachloroethane	131	7.344	7.340	(1.016)	186742	100.000	110
	66	Ethylbenzene	106	7.383	7.390	(1.022)	219203	100.000	100
	67	m,p-Xylene	106	7.521	7.518	(1.041)	543838	200.000	210
	68	o-Xylene	106	7.945	7.941	(1.100)	262137	100.000	100
	69	Styrene	104	7.955	7.951	(1.101)	466809	100.000	110
	70	Bromoform	173	8.132	8.128	(1.125)	126873	100.000	120
	71	Isopropylbenzene	105	8.358	8.355	(1.157)	710954	100.000	100
	72	trans-1,4-Dichloro-2-butene	75	8.418	8.414	(1.165)	58854	100.000	120
$	73	Bromofluorobenzene	95	8.516	8.512	(1.179)	112028	50.0000	50
	74	Bromobenzene	156	8.674	8.670	(0.885)	177305	100.000	110
	75	1,1,2,2-Tetrachloroethane	83	8.683	8.680	(0.886)	193023	100.000	110
	76	1,2,3-Trichloropropane	75	8.723	8.719	(0.890)	210467	100.000	110

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1436.D
Report Date: 02-Oct-2014 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77	n-Propylbenzene	120	8.831	8.828	(0.901)	172743	100.000	100(Q)
78	2-Chlorotoluene	126	8.910	8.906	(0.910)	164752	100.000	100
79	1,3,5-Trimethylbenzene	105	9.038	9.034	(0.923)	549347	100.000	100
80	4-Chlorotoluene	126	9.028	9.034	(0.922)	168314	100.000	100
81	tert-Butylbenzene	119	9.393	9.399	(0.959)	585215	100.000	100
82	1,2,4-Trimethylbenzene	105	9.452	9.448	(0.965)	524555	100.000	100
83	sec-Butylbenzene	105	9.639	9.635	(0.984)	747805	100.000	100
84	1,3-Dichlorobenzene	146	9.728	9.724	(0.993)	324862	100.000	100
85	4-Isopropyltoluene	119	9.797	9.793	(1.000)	596319	100.000	100
* 86	1,4-Dichlorobenzene-d4	152	9.797	9.793	(1.000)	98823	50.0000	(Q)
87	1,4-Dichlorobenzene	146	9.826	9.822	(1.003)	325274	100.000	100
88	1,2-Dichlorobenzene	146	10.200	10.197	(1.041)	295908	100.000	100
89	n-Butylbenzene	91	10.220	10.216	(1.043)	495323	100.000	100
91	1,2-Dibromo-3-chloropropane	75	10.949	10.945	(1.118)	28493	100.000	120(Q)
93	1,3,5-Trichlorobenzene	182	11.166	11.162	(2.549)	180488	100.000	100
92	1,2,4-Trichlorobenzene	180	11.717	11.714	(1.196)	134363	100.000	110
94	Hexachlorobutadiene	225	11.894	11.881	(1.214)	89006	100.000	100
95	Naphthalene	128	11.924	11.921	(1.217)	300304	100.000	110
96	1,2,3-Trichlorobenzene	180	12.141	12.138	(1.239)	110613	100.000	110
M 90	Xylene (Total)	106				805975	300.000	320

QC Flag Legend

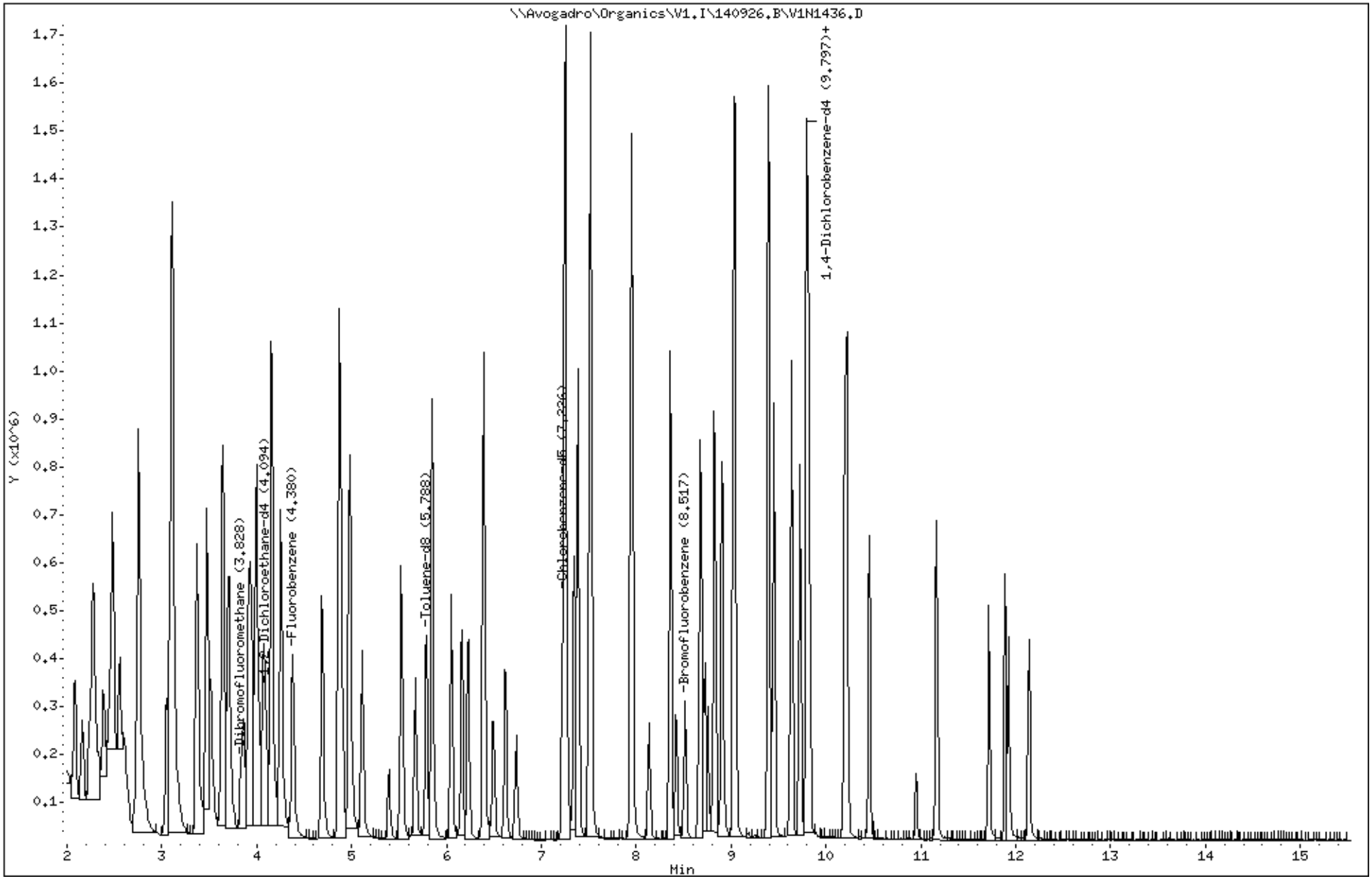
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1436.D
Date : 26-SEP-2014 11:18
Client ID: VSTD1001A
Sample Info: 5ML,VSTD1001A,VSTD1001A

Instrument: V1.i

Operator: WL SRC: WL
Column diameter: 0.25

Column phase: DB-624



7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: V1 Calibration Date: 10/21/2014 Time: 10:00

Lab File ID: V1N1812.D Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(VSTD#####) VSTD0501P Init. Calib. Time(s): 9:18 11:18

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.172	0.184	0.100	7.1	20.0
Chloromethane	0.463	0.505	0.100	9.0	20.0
Vinyl chloride	0.331	0.281	0.100	-15.3	20.0
Bromomethane	0.210	0.217	0.100	3.3	20.0
Chloroethane	0.225	0.233	0.100	3.1	20.0
Trichlorofluoromethane	0.337	0.326	0.100	-3.5	20.0
1,1-Dichloroethene	0.243	0.239	0.100	-1.7	20.0
Acetone	0.033	0.045	0.100	35.0	20.0
Carbon disulfide	0.626	0.561	0.100	-10.4	20.0
Methylene chloride	0.282	0.268	0.100	-5.1	20.0
trans-1,2-Dichloroethene	0.271	0.278	0.100	2.5	20.0
Methyl tert-butyl ether	0.774	0.765	0.100	-1.2	20.0
1,1-Dichloroethane	0.456	0.491	0.200	7.6	20.0
2-Butanone	0.028	0.035	0.100	23.7	20.0
cis-1,2-Dichloroethene	0.278	0.291	0.100	4.7	20.0
Bromochloromethane	0.154	0.154	0.100	0.0	20.0
Chloroform	0.490	0.539	0.200	10.0	20.0
1,1,1-Trichloroethane	0.401	0.419	0.100	4.6	20.0
Carbon tetrachloride	0.407	0.391	0.100	-3.9	20.0
1,2-Dichloroethane	0.400	0.465	0.100	16.3	20.0
Benzene	0.961	1.001	0.500	4.2	20.0
Trichloroethene	0.283	0.285	0.200	0.8	20.0
1,2-Dichloropropane	0.302	0.320	0.100	6.1	20.0
Bromodichloromethane	0.383	0.423	0.200	10.3	20.0
cis-1,3-Dichloropropene	0.421	0.448	0.200	6.3	20.0
4-Methyl-2-pentanone	0.418	0.386	0.100	-7.6	20.0
Toluene	0.910	0.935	0.400	2.7	20.0
trans-1,3-Dichloropropene	0.374	0.394	0.100	5.4	20.0
1,1,2-Trichloroethane	0.196	0.211	0.100	7.9	20.0
Tetrachloroethene	0.320	0.251	0.200	-21.7	20.0
2-Hexanone	0.417	0.391	0.100	-6.1	20.0
Dibromochloromethane	0.440	0.440	0.100	0.0	20.0
1,2-Dibromoethane	0.320	0.313	0.100	-2.2	20.0
Chlorobenzene	0.921	0.868	0.500	-5.8	20.0
Ethylbenzene	0.468	0.406	0.100	-13.2	20.0
Xylene (Total)	0.566	0.504	0.100	-10.8	20.0
Styrene	0.953	0.886	0.300	-7.0	20.0
Bromoform	0.243	0.223	0.100	-8.2	20.0
Isopropylbenzene	1.510	1.315	0.100	-12.9	20.0
1,1,2,2-Tetrachloroethane	0.895	0.860	0.300	-4.0	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: V1 Calibration Date: 10/21/2014 Time: 10:00

Lab File ID: V1N1812.D Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(VSTD#####) VSTD0501P Init. Calib. Time(s): 9:18 11:18

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,3-Dichlorobenzene	1.557	1.370	0.600	-12.0	20.0
1,4-Dichlorobenzene	1.573	1.367	0.500	-13.1	20.0
1,2-Dichlorobenzene	1.443	1.207	0.400	-16.3	20.0
1,2-Dibromo-3-chloropropane	0.125	0.118	0.050	-4.9	20.0
1,2,4-Trichlorobenzene	0.639	0.534	0.200	-16.5	20.0
1,2,3-Trichlorobenzene	0.526	0.466	0.100	-11.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.285	0.262	0.100	-8.2	20.0
1,4-Dioxane	0.002	0.002	0.100	-22.9	20.0
Cyclohexane	0.592	0.503	0.100	-14.9	20.0
Methyl acetate	0.381	0.503	0.100	32.1	20.0
Methylcyclohexane	0.445	0.359	0.100	-19.4	20.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: V1 Calibration Date: 10/21/2014 Time: 10:00

Lab File ID: V1N1812.D Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(VSTD#####) VSTD0501P Init. Calib. Time(s): 9:18 11:18

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.324	0.347	0.100	7.2	20.0
1,2-Dichloroethane-d4	0.068	0.076	0.100	10.6	20.0
Toluene-d8	1.262	1.242	0.100	-1.6	20.0
Bromofluorobenzene	0.493	0.506	0.100	2.6	20.0

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1812.D
Report Date: 22-Oct-2014 11:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1812.D
Lab Smp Id: VSTD0501P Client Smp ID: VSTD0501P
Inj Date : 21-OCT-2014 10:00
Operator : WL   SRC: WL Inst ID: V1.i
Smp Info : 5ML,VSTD0501P,VSTD0501P
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 22-Oct-2014 11:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.251	1.251	(0.287)	61616	50.0000	54
2	Chloromethane	50	1.399	1.389	(0.321)	168930	50.0000	54
3	Vinyl Chloride	62	1.477	1.468	(0.339)	93859	50.0000	42
4	Bromomethane	94	1.684	1.684	(0.386)	72607	50.0000	52
5	Chloroethane	64	1.753	1.753	(0.402)	77733	50.0000	52
6	Trichlorofluoromethane	101	1.930	1.931	(0.442)	108826	50.0000	48
7	Ethanol	46	2.019	2.019	(0.463)	63111	5000.00	4700(Q)
8	Ether	59	2.068	2.078	(0.474)	105023	50.0000	55(Q)
9	Acrolein	56	2.147	2.157	(0.492)	85730	250.000	180
18	1,1-Dichloroethene	96	2.265	2.266	(0.519)	79997	50.0000	49
11	Acetone	58	2.255	2.266	(0.517)	14905	50.0000	67
10	1,1,2-Trichloro-1,2,2-trifluo	101	2.275	2.275	(0.521)	87573	50.0000	46
12	Iodomethane	142	2.374	2.384	(0.544)	106983	50.0000	45
13	Carbon Disulfide	76	2.384	2.394	(0.546)	187368	50.0000	45
14	Acetonitrile	40	2.462	2.462	(0.564)	133051	500.000	590
20	Methyl Acetate	43	2.482	2.492	(0.569)	168085	50.0000	66
16	Methylene Chloride	84	2.551	2.551	(0.585)	89532	50.0000	47
25	tert-Butanol	59	2.620	2.640	(0.600)	24631	100.000	110
17	Acrylonitrile	53	2.709	2.719	(0.621)	42243	50.0000	51
19	trans-1,2-Dichloroethene	96	2.738	2.748	(0.628)	92828	50.0000	51
21	Methyl tert-butyl ether	73	2.748	2.758	(0.630)	255702	50.0000	49

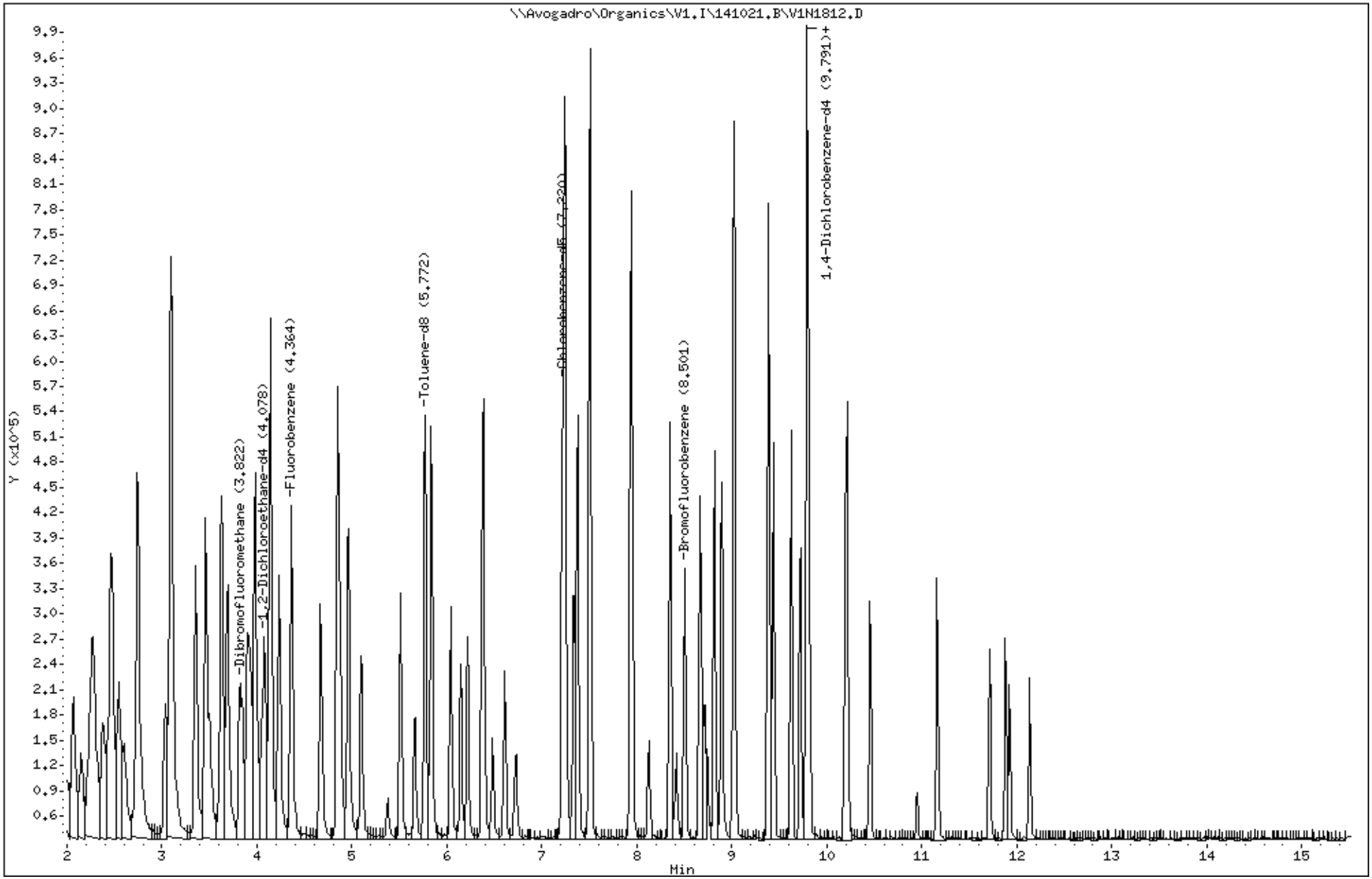
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	23	1,1-Dichloroethane	63	3.034	3.044	(0.695)	164046	50.0000	54
	15	Vinyl acetate	43	3.083	3.093	(0.707)	374246	50.0000	38
	22	Diisopropyl Ether	45	3.093	3.103	(0.709)	577597	50.0000	51
	24	Ethyl tert-butyl ether	59	3.359	3.369	(0.770)	340050	50.0000	48
	27	cis-1,2-Dichloroethene	96	3.457	3.467	(0.792)	97335	50.0000	52
	28	2-Butanone	72	3.467	3.467	(0.795)	11640	50.0000	62(Q)
	29	2,2-Dichloropropane	77	3.457	3.467	(0.792)	64405	50.0000	54
	30	Bromochloromethane	128	3.634	3.644	(0.833)	51357	50.0000	50
	26	Tetrahydrofuran	72	3.674	3.684	(0.842)	19102	100.000	91
	31	Chloroform	83	3.694	3.704	(0.847)	180259	50.0000	55
$	32	Dibromofluoromethane	113	3.812	3.822	(0.874)	116077	50.0000	54
	33	1,1,1-Trichloroethane	97	3.851	3.861	(0.883)	140173	50.0000	52
	34	Cyclohexane	56	3.930	3.930	(0.901)	168222	50.0000	42
	36	1,1-Dichloropropene	110	3.979	3.989	(0.912)	39664	50.0000	48
	37	Carbon Tetrachloride	117	3.979	3.989	(0.912)	130615	50.0000	48
$	39	1,2-Dichloroethane-d4	102	4.078	4.088	(0.935)	25321	50.0000	55
	40	1,2-Dichloroethane	62	4.137	4.147	(0.948)	155490	50.0000	58
	41	Benzene	78	4.137	4.147	(0.948)	334448	50.0000	52
	42	tert-Amyl methyl ether	73	4.235	4.245	(0.971)	223486	50.0000	44
*	43	Fluorobenzene	96	4.363	4.373	(1.000)	334276	50.0000	
	44	Trichloroethene	130	4.669	4.689	(1.070)	95174	50.0000	50
	45	Methylcyclohexane	83	4.846	4.856	(1.111)	119894	50.0000	40
	46	1,2-Dichloropropane	63	4.856	4.866	(1.113)	107105	50.0000	53
	47	Dibromomethane	93	4.954	4.964	(1.135)	63300	50.0000	57
	48	1,4-Dioxane	88	4.974	4.984	(1.140)	12562	1000.00	630
	49	Bromodichloromethane	83	5.092	5.102	(1.167)	141251	50.0000	55
M	38	1,2-dichloroethene, (Total)	100				190163	100.000	(a)
	50	2-Chloroethyl vinyl ether	63	5.378	5.388	(1.232)	17207	50.0000	33(Q)
	51	cis-1,3-Dichloropropene	75	5.516	5.516	(1.264)	149628	50.0000	53
	52	4-Methyl-2-pentanone	43	5.663	5.664	(1.298)	128926	50.0000	46
$	53	Toluene-d8	98	5.772	5.782	(0.799)	307610	50.0000	49
	54	Toluene	91	5.831	5.841	(1.336)	312475	50.0000	51
	55	trans-1,3-Dichloropropene	75	6.038	6.048	(1.384)	131765	50.0000	53
	56	1,1,2-Trichloroethane	97	6.215	6.225	(1.424)	70532	50.0000	54
	57	Tetrachloroethene	164	6.373	6.383	(0.883)	62164	50.0000	39
	58	1,3-Dichloropropane	76	6.382	6.392	(0.884)	128677	50.0000	50
	59	2-Hexanone	43	6.481	6.491	(0.898)	96890	50.0000	47
	60	Dibromochloromethane	129	6.609	6.619	(0.915)	109001	50.0000	50
	61	1,2-Dibromoethane	107	6.717	6.727	(0.930)	77510	50.0000	49
*	62	Chlorobenzene-d5	117	7.220	7.220	(1.000)	247718	50.0000	
	63	1-Chlorohexane	91	7.239	7.249	(1.003)	109103	50.0000	40
	64	Chlorobenzene	112	7.249	7.259	(1.004)	215019	50.0000	47
	65	1,1,1,2-Tetrachloroethane	131	7.338	7.348	(1.016)	93827	50.0000	49
	66	Ethylbenzene	106	7.377	7.387	(1.022)	100540	50.0000	43
	67	m,p-Xylene	106	7.505	7.515	(1.040)	252106	100.000	89
	68	o-Xylene	106	7.939	7.939	(1.100)	122716	50.0000	45
	69	Styrene	104	7.949	7.949	(1.101)	219506	50.0000	46
	70	Bromoform	173	8.126	8.126	(1.125)	55354	50.0000	46
	71	Isopropylbenzene	105	8.352	8.353	(1.157)	325857	50.0000	44
	72	trans-1,4-Dichloro-2-butene	75	8.411	8.412	(1.165)	20445	50.0000	39
$	73	Bromofluorobenzene	95	8.500	8.510	(1.177)	125271	50.0000	51
	74	Bromobenzene	156	8.668	8.668	(0.885)	77805	50.0000	46
	75	1,1,2,2-Tetrachloroethane	83	8.677	8.678	(0.886)	86137	50.0000	48
	76	1,2,3-Trichloropropane	75	8.717	8.717	(0.890)	87091	50.0000	46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77	n-Propylbenzene	120	8.815	8.825	(0.900)	77736	50.0000	46
78	2-Chlorotoluene	126	8.894	8.894	(0.908)	73459	50.0000	46
79	1,3,5-Trimethylbenzene	105	9.022	9.032	(0.922)	263177	50.0000	48
80	4-Chlorotoluene	126	9.022	9.022	(0.922)	74735	50.0000	45
81	tert-Butylbenzene	119	9.387	9.387	(0.959)	258160	50.0000	45
82	1,2,4-Trimethylbenzene	105	9.436	9.446	(0.964)	248116	50.0000	48
83	sec-Butylbenzene	105	9.623	9.633	(0.983)	321657	50.0000	44
84	1,3-Dichlorobenzene	146	9.721	9.722	(0.993)	137272	50.0000	44
85	4-Isopropyltoluene	119	9.790	9.791	(1.000)	267498	50.0000	46
* 86	1,4-Dichlorobenzene-d4	152	9.790	9.791	(1.000)	100207	50.0000	
87	1,4-Dichlorobenzene	146	9.820	9.820	(1.003)	136989	50.0000	43
88	1,2-Dichlorobenzene	146	10.194	10.194	(1.041)	120960	50.0000	42
89	n-Butylbenzene	91	10.214	10.214	(1.043)	221896	50.0000	46
91	1,2-Dibromo-3-chloropropane	75	10.953	10.943	(1.119)	11869	50.0000	48(Q)
93	1,3,5-Trichlorobenzene	182	11.160	11.160	(2.557)	72849	50.0000	40
92	1,2,4-Trichlorobenzene	180	11.711	11.711	(1.196)	53464	50.0000	42
94	Hexachlorobutadiene	225	11.879	11.879	(1.213)	35581	50.0000	40
95	Naphthalene	128	11.918	11.918	(1.217)	119186	50.0000	43
96	1,2,3-Trichlorobenzene	180	12.135	12.135	(1.239)	46718	50.0000	44
M 90	Xylene (Total)	106				374822	150.000	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1812.D
Date : 21-OCT-2014 10:00
Client ID: VSTD0501P
Instrument: V1.i
Sample Info: 5ML,VSTD0501P,VSTD0501P
Operator: WL SRC: WL
Column phase: DB-624
Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\V1.I\140926.B\V1N1430.D
Lab Smp Id: BFB1A Client Smp ID: BFB1A
Inj Date : 26-SEP-2014 08:22
Operator : WL SRC: WL Inst ID: V1.i
Smp Info : 5ML,BFB1A,BFB1A
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\140926.B\bfb8260.m
Meth Date : 26-Sep-2014 08:27 amarquis Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET115

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.539	4.600	(0.000)	95	117360			0.00- 100.00	100.00
4.539	4.600	(0.000)	50	26104			15.00- 40.00	22.24
4.539	4.600	(0.000)	75	50632			30.00- 60.00	43.14
4.539	4.600	(0.000)	96	7880			5.00- 9.00	6.71
4.539	4.600	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.539	4.600	(0.000)	174	89056			50.00- 0.00	75.88
4.539	4.600	(0.000)	175	7054			5.00- 9.00	7.92
4.539	4.600	(0.000)	176	89648			95.00- 101.00	100.66
4.539	4.600	(0.000)	177	6197			5.00- 9.00	6.91

Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1430.D

Date : 26-SEP-2014 08:22

Client ID: BFB1A

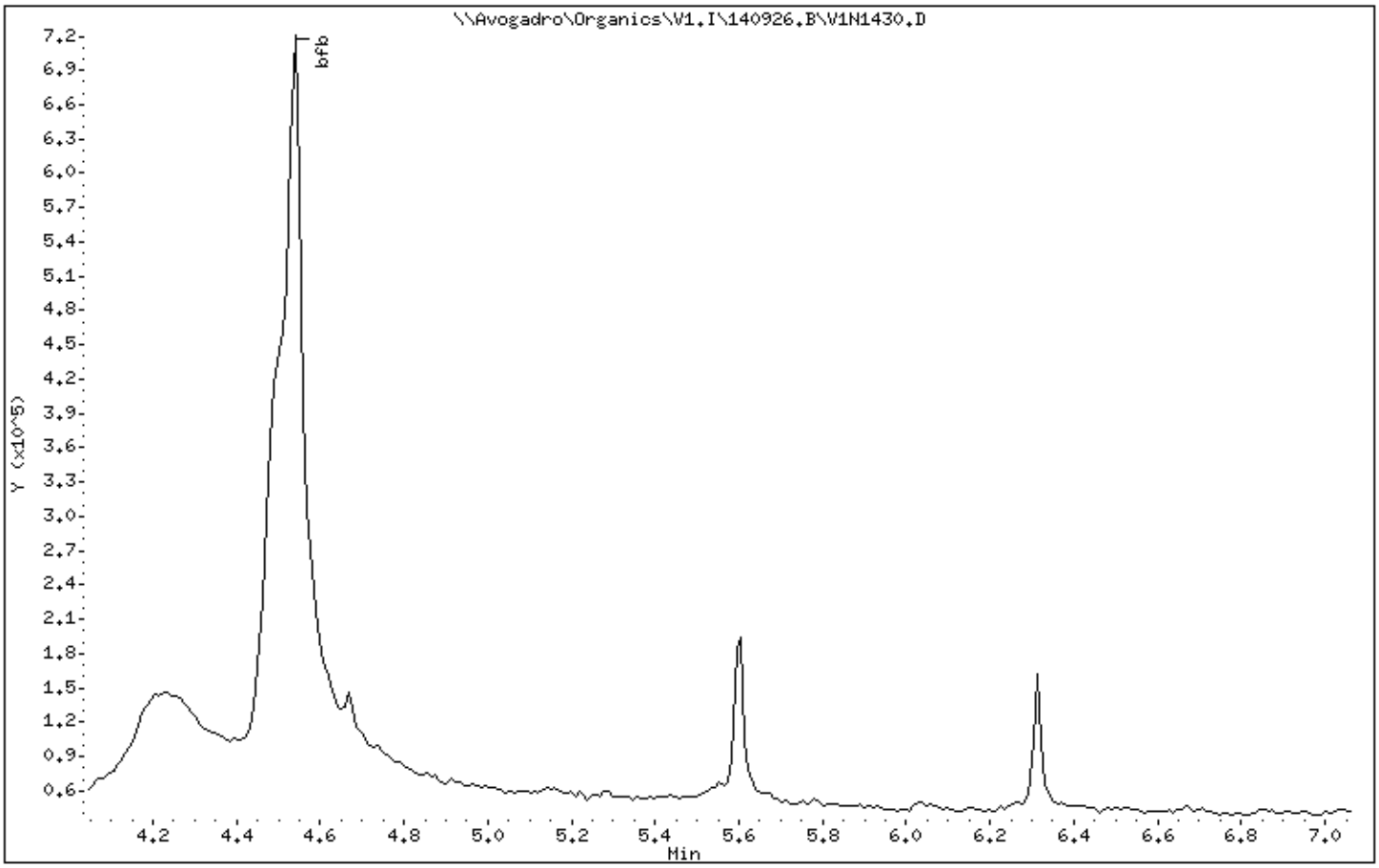
Instrument: V1.i

Sample Info: 5ML,BFB1A,BFB1A

Operator: WL SRC: WL

Column phase: DB-624

Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\140926.B\V1N1430.D

Date : 26-SEP-2014 08:22

Client ID: BFB1A

Instrument: V1.i

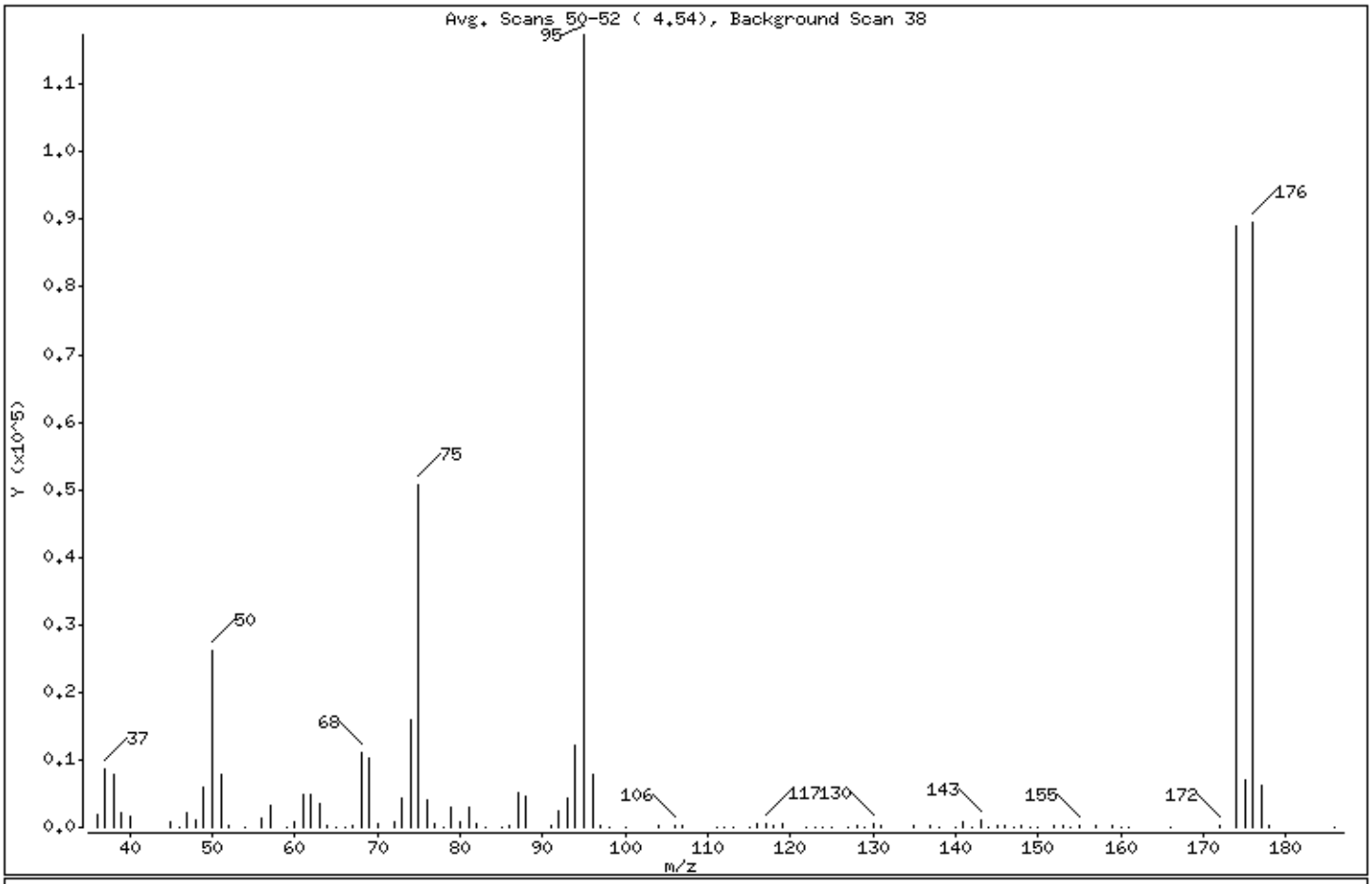
Sample Info: 5ML,BFB1A,BFB1A

Operator: WL SRC: WL

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.24
75	30.00 - 60.00% of mass 95	43.14
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.88
175	5.00 - 9.00% of mass 174	6.01 (7.92)
176	95.00 - 101.00% of mass 174	76.39 (100.66)
177	5.00 - 9.00% of mass 176	5.28 (6.91)

Date : 26-SEP-2014 08:22

Client ID: BFB1A Instrument: V1.i

Sample Info: 5ML,BFB1A,BFB1A

Operator: WL SRC: WL

Column phase: DB-624 Column diameter: 0.25

Data File: V1N1430.D
Spectrum: Avg. Scans 50-52 (4.54), Background Scan 38
Location of Maximum: 95.00
Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1820	69.00	10123	100.00	36	142.00	119
37.00	8691	70.00	604	104.00	232	143.00	1006
38.00	7871	72.00	725	106.00	345	144.00	44
39.00	2267	73.00	4447	107.00	203	145.00	139
40.00	1586	74.00	15802	111.00	95	146.00	278
45.00	925	75.00	50632	112.00	83	147.00	88
46.00	85	76.00	4023	113.00	75	148.00	181
47.00	2088	77.00	589	115.00	125	149.00	111
48.00	1016	78.00	30	116.00	600	150.00	121
49.00	5844	79.00	2880	117.00	624	152.00	169
50.00	26104	80.00	807	118.00	375	153.00	137
51.00	7739	81.00	2974	119.00	504	154.00	54
52.00	146	82.00	477	122.00	35	155.00	197
54.00	90	83.00	62	123.00	37	157.00	141
56.00	1411	85.00	24	124.00	42	159.00	137
57.00	3149	86.00	157	125.00	45	160.00	38
59.00	64	87.00	5180	127.00	35	161.00	112
60.00	900	88.00	4600	128.00	377	166.00	35
61.00	4769	91.00	275	129.00	17	172.00	184
62.00	4789	92.00	2545	130.00	481	174.00	89056
63.00	3412	93.00	4335	131.00	290	175.00	7054
64.00	355	94.00	12006	135.00	222	176.00	89648
65.00	88	95.00	117360	137.00	160	177.00	6197
66.00	23	96.00	7880	138.00	50	178.00	173
67.00	231	97.00	230	140.00	78	186.00	34
68.00	11156	98.00	88	141.00	944		

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1810.D
Lab Smp Id: BFB1P Client Smp ID: BFB1P
Inj Date : 21-OCT-2014 09:01
Operator : WL SRC: WL Inst ID: V1.i
Smp Info : 2UL,BFB1P,BFB1P
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\141021.B\bfb8260.m
Meth Date : 22-Oct-2014 11:40 amarquis Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET115

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.525	4.600	(0.000)	95	94056			0.00- 100.00	100.00
4.525	4.600	(0.000)	50	22448			15.00- 40.00	23.87
4.525	4.600	(0.000)	75	41200			30.00- 60.00	43.80
4.525	4.600	(0.000)	96	6341			5.00- 9.00	6.74
4.525	4.600	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.525	4.600	(0.000)	174	75600			50.00- 0.00	80.38
4.525	4.600	(0.000)	175	6491			5.00- 9.00	8.59
4.525	4.600	(0.000)	176	75328			95.00- 101.00	99.64
4.525	4.600	(0.000)	177	4571			5.00- 9.00	6.07

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1810.D

Date : 21-OCT-2014 09:01

Client ID: BFB1P

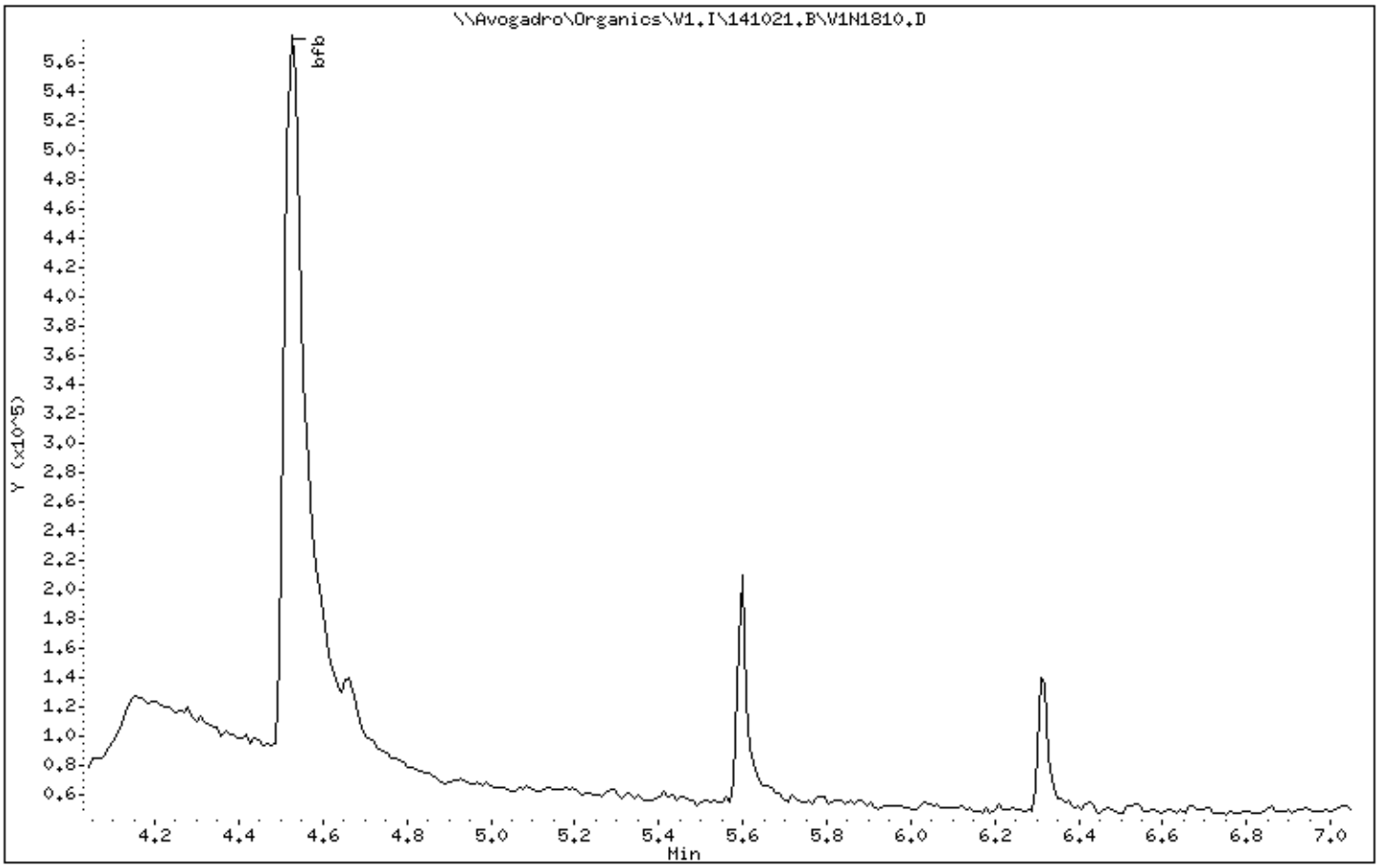
Instrument: V1.i

Sample Info: 2UL,BFB1P,BFB1P

Operator: WL SRC: WL

Column phase: DB-624

Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1810.D

Date : 21-OCT-2014 09:01

Client ID: BFB1P

Instrument: V1.i

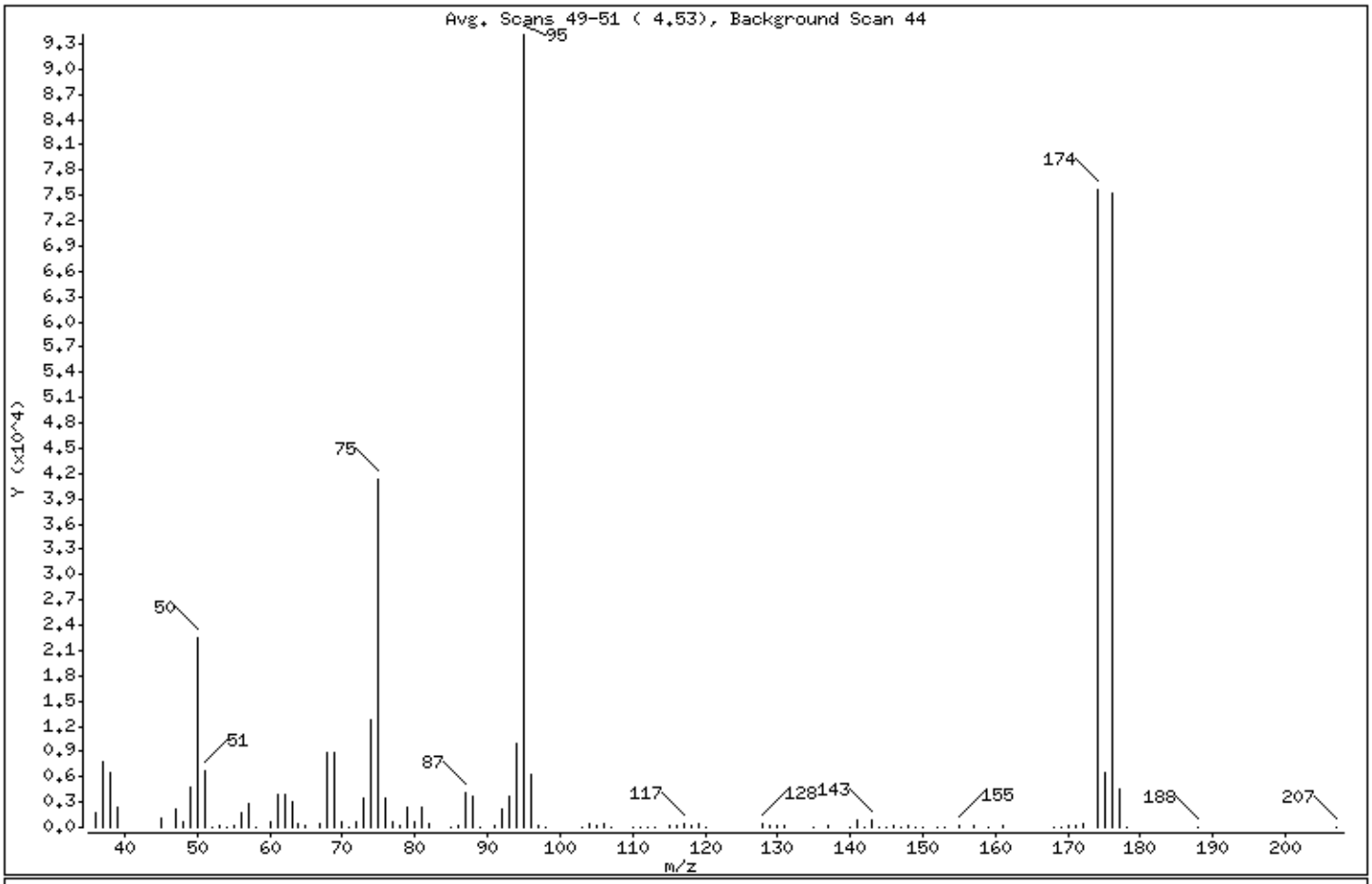
Sample Info: 2UL,BFB1P,BFB1P

Operator: WL SRC: WL

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.87
75	30.00 - 60.00% of mass 95	43.80
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	80.38
175	5.00 - 9.00% of mass 174	6.90 (8.59)
176	95.00 - 101.00% of mass 174	80.09 (99.64)
177	5.00 - 9.00% of mass 176	4.86 (6.07)

Date : 21-OCT-2014 09:01

Client ID: BFB1P Instrument: V1.i

Sample Info: 2UL,BFB1P,BFB1P

Operator: WL SRC: WL

Column phase: DB-624 Column diameter: 0.25

Data File: V1N1810.D
Spectrum: Avg. Scans 49-51 (4.53), Background Scan 44
Location of Maximum: 95.00
Number of points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1703	70.00	610	103.00	39	145.00	40
37.00	7802	71.00	8	104.00	376	146.00	145
38.00	6487	72.00	642	105.00	161	147.00	93
39.00	2353	73.00	3490	106.00	424	148.00	217
45.00	1165	74.00	12842	107.00	108	149.00	89
47.00	2190	75.00	41200	110.00	84	150.00	38
48.00	714	76.00	3503	111.00	79	152.00	37
49.00	4753	77.00	554	112.00	33	153.00	81
50.00	22448	78.00	192	113.00	91	155.00	230
51.00	6676	79.00	2379	115.00	167	157.00	214
52.00	97	80.00	636	116.00	204	159.00	43
53.00	246	81.00	2400	117.00	505	161.00	177
54.00	5	82.00	464	118.00	319	168.00	35
55.00	140	85.00	75	119.00	454	169.00	41
56.00	1649	86.00	163	120.00	39	170.00	159
57.00	2779	87.00	4139	128.00	408	171.00	176
58.00	69	88.00	3687	129.00	223	172.00	422
60.00	712	89.00	54	130.00	302	174.00	75600
61.00	3974	91.00	173	131.00	150	175.00	6491
62.00	3942	92.00	2220	135.00	96	176.00	75328
63.00	3007	93.00	3615	137.00	190	177.00	4571
64.00	345	94.00	9995	140.00	57	178.00	103
65.00	152	95.00	94056	141.00	818	188.00	37
67.00	459	96.00	6341	142.00	81	207.00	29
68.00	8783	97.00	272	143.00	917		
69.00	8888	98.00	59	144.00	34		

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79617

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N1817.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

EPA SAMPLE NO.
MB-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79617

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N1817.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79617

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N1817.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

[1]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1817.D
Report Date: 22-Oct-2014 11:41

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1817.D
Lab Smp Id: MB-79617 Client Smp ID: MB-79617
Inj Date : 21-OCT-2014 12:27
Operator : WL SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,MB-79617,MB-79617,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 22-Oct-2014 11:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

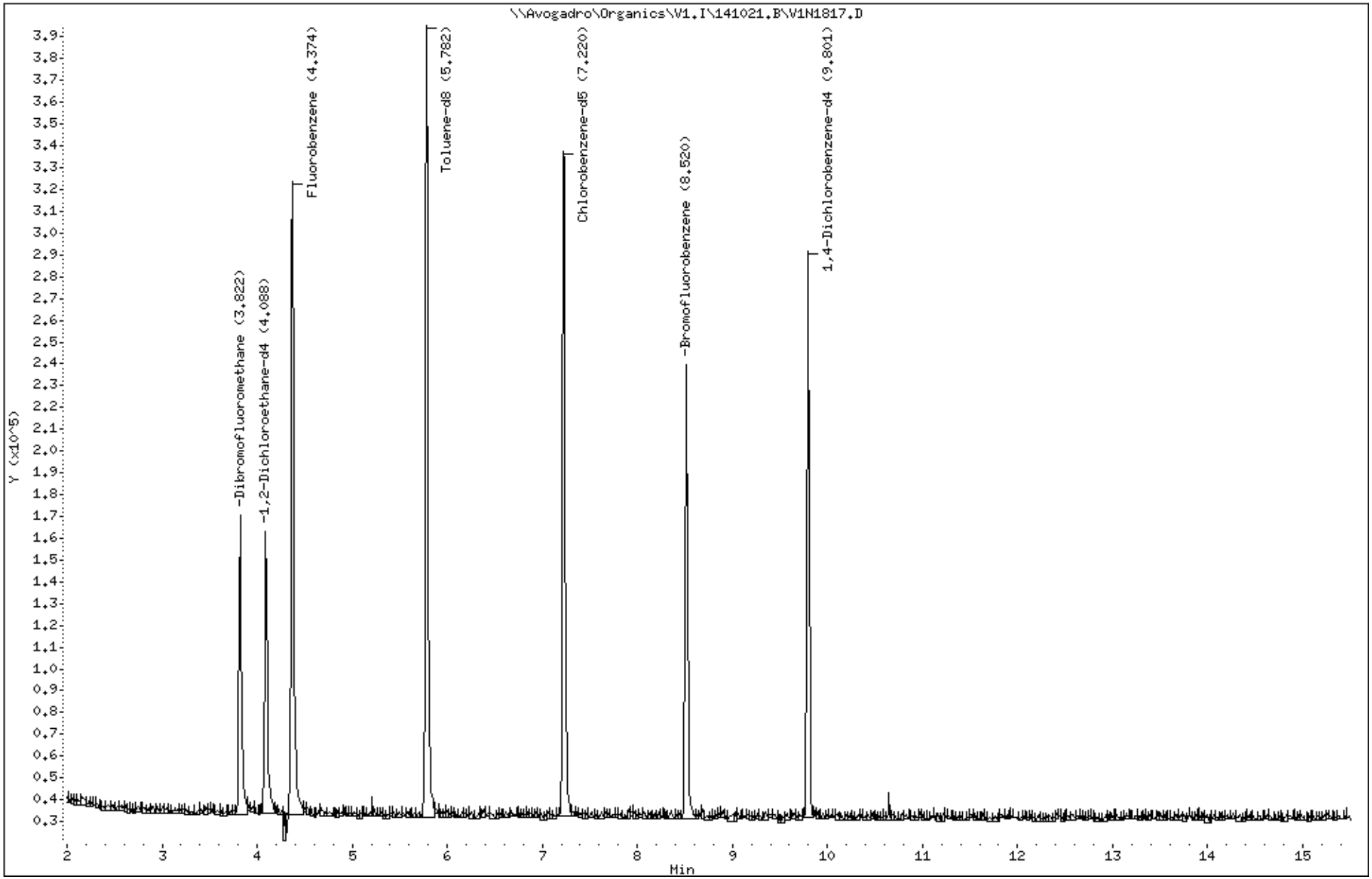
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	3.822	3.822	(0.874)	86028	55.0693	55
$ 39 1,2-Dichloroethane-d4	102	4.088	4.088	(0.935)	17113	51.8300	52
* 43 Fluorobenzene	96	4.373	4.373	(1.000)	241103	50.0000	
$ 53 Toluene-d8	98	5.782	5.782	(0.800)	219747	49.1716	49
* 62 Chlorobenzene-d5	117	7.230	7.220	(1.000)	177006	50.0000	
$ 73 Bromofluorobenzene	95	8.520	8.510	(1.178)	84864	48.6302	49
* 86 1,4-Dichlorobenzene-d4	152	9.800	9.791	(1.000)	62845	50.0000	

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1817.D
Date : 21-OCT-2014 12:27
Client ID: MB-79617
Sample Info: 5ML,MB-79617,MB-79617,79617

Instrument: V1.i

Operator: WL SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79617

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N1813.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	69	
74-87-3	Chloromethane	57	
75-01-4	Vinyl chloride	44	
74-83-9	Bromomethane	59	
75-00-3	Chloroethane	57	
75-69-4	Trichlorofluoromethane	49	
75-35-4	1,1-Dichloroethene	54	
67-64-1	Acetone	74	
75-15-0	Carbon disulfide	51	
75-09-2	Methylene chloride	51	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	51	
75-34-3	1,1-Dichloroethane	58	
78-93-3	2-Butanone	62	
156-59-2	cis-1,2-Dichloroethene	54	
74-97-5	Bromochloromethane	52	
67-66-3	Chloroform	56	
71-55-6	1,1,1-Trichloroethane	55	
56-23-5	Carbon tetrachloride	49	
107-06-2	1,2-Dichloroethane	58	
71-43-2	Benzene	53	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	52	
75-27-4	Bromodichloromethane	57	
10061-01-5	cis-1,3-Dichloropropene	54	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	58	
127-18-4	Tetrachloroethene	40	
591-78-6	2-Hexanone	53	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	45	

EPA SAMPLE NO.
LCS-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79617

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N1813.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	48	
75-25-2	Bromoform	48	
98-82-8	Isopropylbenzene	45	
79-34-5	1,1,2,2-Tetrachloroethane	52	
541-73-1	1,3-Dichlorobenzene	46	
106-46-7	1,4-Dichlorobenzene	46	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	60	
120-82-1	1,2,4-Trichlorobenzene	49	
87-61-6	1,2,3-Trichlorobenzene	55	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	49	
123-91-1	1,4-Dioxane	800	
110-82-7	Cyclohexane	47	
79-20-9	Methyl acetate	72	
108-87-2	Methylcyclohexane	43	

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1813.D
Report Date: 22-Oct-2014 11:41

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1813.D
Lab Smp Id: LCS-79617 Client Smp ID: LCS-79617
Inj Date : 21-OCT-2014 10:37
Operator : WL SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,LCS-79617,LCS-79617,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 22-Oct-2014 11:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.241	1.251	(0.284)	66130	50.0000	69
2	Chloromethane	50	1.388	1.389	(0.318)	145367	50.0000	56
3	Vinyl Chloride	62	1.457	1.468	(0.334)	80814	50.0000	44
4	Bromomethane	94	1.674	1.684	(0.384)	68551	50.0000	59
5	Chloroethane	64	1.753	1.753	(0.402)	71835	50.0000	57
6	Trichlorofluoromethane	101	1.920	1.931	(0.440)	92647	50.0000	49
7	Ethanol	46	1.999	2.019	(0.458)	66887	5000.00	6000(Q)
8	Ether	59	2.068	2.078	(0.474)	92614	50.0000	59(Q)
9	Acrolein	56	2.157	2.157	(0.494)	84675	250.000	210
18	1,1-Dichloroethene	96	2.265	2.266	(0.519)	72884	50.0000	54
11	Acetone	58	2.255	2.266	(0.517)	13619	50.0000	74
10	1,1,2-Trichloro-1,2,2-trifluo	101	2.275	2.275	(0.521)	78049	50.0000	49
12	Iodomethane	142	2.373	2.384	(0.544)	103429	50.0000	52
13	Carbon Disulfide	76	2.383	2.394	(0.546)	177013	50.0000	51
14	Acetonitrile	40	2.452	2.462	(0.562)	126748	500.000	670(Q)
20	Methyl Acetate	43	2.482	2.492	(0.569)	152346	50.0000	72
16	Methylene Chloride	84	2.551	2.551	(0.585)	79718	50.0000	51
25	tert-Butanol	59	2.629	2.640	(0.603)	23203	100.000	120
17	Acrylonitrile	53	2.708	2.719	(0.621)	38798	50.0000	56
19	trans-1,2-Dichloroethene	96	2.748	2.748	(0.630)	76920	50.0000	51
21	Methyl tert-butyl ether	73	2.748	2.758	(0.630)	220228	50.0000	51

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1813.D
Report Date: 22-Oct-2014 11:41

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23	1,1-Dichloroethane	63	3.033	3.044	(0.695)	146064	50.0000	58
	15	Vinyl acetate	43	3.092	3.093	(0.709)	313319	50.0000	38
	22	Diisopropyl Ether	45	3.092	3.103	(0.709)	484862	50.0000	52
	24	Ethyl tert-butyl ether	59	3.358	3.369	(0.770)	280438	50.0000	47
	27	cis-1,2-Dichloroethene	96	3.457	3.467	(0.792)	82607	50.0000	54
	28	2-Butanone	72	3.467	3.467	(0.795)	9737	50.0000	62(Q)
	29	2,2-Dichloropropane	77	3.457	3.467	(0.792)	53283	50.0000	54
	30	Bromochloromethane	128	3.634	3.644	(0.833)	44317	50.0000	52
	26	Tetrahydrofuran	72	3.683	3.684	(0.844)	17514	100.000	100
	31	Chloroform	83	3.693	3.704	(0.847)	151636	50.0000	56
$	32	Dibromofluoromethane	113	3.821	3.822	(0.876)	97065	50.0000	54
	33	1,1,1-Trichloroethane	97	3.851	3.861	(0.883)	121953	50.0000	55
	34	Cyclohexane	56	3.930	3.930	(0.901)	154330	50.0000	47
	36	1,1-Dichloropropene	110	3.979	3.989	(0.912)	34310	50.0000	50
	37	Carbon Tetrachloride	117	3.989	3.989	(0.914)	111323	50.0000	49
$	39	1,2-Dichloroethane-d4	102	4.087	4.088	(0.937)	20229	50.0000	53
	40	1,2-Dichloroethane	62	4.146	4.147	(0.950)	129380	50.0000	58
	41	Benzene	78	4.146	4.147	(0.950)	279956	50.0000	52
	42	tert-Amyl methyl ether	73	4.235	4.245	(0.971)	196053	50.0000	46
*	43	Fluorobenzene	96	4.363	4.373	(1.000)	277471	50.0000	
	44	Trichloroethene	130	4.678	4.689	(1.072)	78611	50.0000	50
	45	Methylcyclohexane	83	4.855	4.856	(1.113)	106345	50.0000	43
	46	1,2-Dichloropropane	63	4.865	4.866	(1.115)	87964	50.0000	52
	47	Dibromomethane	93	4.964	4.964	(1.138)	53559	50.0000	58
	48	1,4-Dioxane	88	4.984	4.984	(1.142)	13332	1000.00	800
	49	Bromodichloromethane	83	5.102	5.102	(1.169)	121325	50.0000	57
M	38	1,2-dichloroethene, (Total)	100				159527	100.000	100
	50	2-Chloroethyl vinyl ether	63	5.387	5.388	(1.235)	15211	50.0000	35
	51	cis-1,3-Dichloropropene	75	5.515	5.516	(1.264)	125633	50.0000	54
	52	4-Methyl-2-pentanone	43	5.663	5.664	(1.298)	117718	50.0000	51
$	53	Toluene-d8	98	5.771	5.782	(0.799)	249753	50.0000	48
	54	Toluene	91	5.840	5.841	(1.339)	261333	50.0000	52
	55	trans-1,3-Dichloropropene	75	6.047	6.048	(1.386)	112633	50.0000	54
	56	1,1,2-Trichloroethane	97	6.225	6.225	(1.427)	62945	50.0000	58
	57	Tetrachloroethene	164	6.382	6.383	(0.884)	52202	50.0000	40
	58	1,3-Dichloropropane	76	6.382	6.392	(0.884)	109204	50.0000	52
	59	2-Hexanone	43	6.481	6.491	(0.898)	90064	50.0000	52
	60	Dibromochloromethane	129	6.619	6.619	(0.917)	92395	50.0000	51
	61	1,2-Dibromoethane	107	6.727	6.727	(0.932)	65833	50.0000	50
*	62	Chlorobenzene-d5	117	7.219	7.220	(1.000)	205682	50.0000	
	63	1-Chlorohexane	91	7.249	7.249	(1.004)	94883	50.0000	42
	64	Chlorobenzene	112	7.249	7.259	(1.004)	178785	50.0000	47
	65	1,1,1,2-Tetrachloroethane	131	7.338	7.348	(1.016)	78432	50.0000	49
	66	Ethylbenzene	106	7.377	7.387	(1.022)	85707	50.0000	44
	67	m,p-Xylene	106	7.505	7.515	(1.040)	218035	100.000	93
	68	o-Xylene	106	7.938	7.939	(1.100)	106224	50.0000	47
	69	Styrene	104	7.948	7.949	(1.101)	189062	50.0000	48
	70	Bromoform	173	8.126	8.126	(1.125)	48278	50.0000	48
	71	Isopropylbenzene	105	8.352	8.353	(1.157)	277255	50.0000	45
	72	trans-1,4-Dichloro-2-butene	75	8.411	8.412	(1.165)	18268	50.0000	42
$	73	Bromofluorobenzene	95	8.510	8.510	(1.179)	105572	50.0000	52
	74	Bromobenzene	156	8.667	8.668	(0.885)	66455	50.0000	46
	75	1,1,2,2-Tetrachloroethane	83	8.677	8.678	(0.886)	79580	50.0000	52
	76	1,2,3-Trichloropropane	75	8.717	8.717	(0.890)	80883	50.0000	50

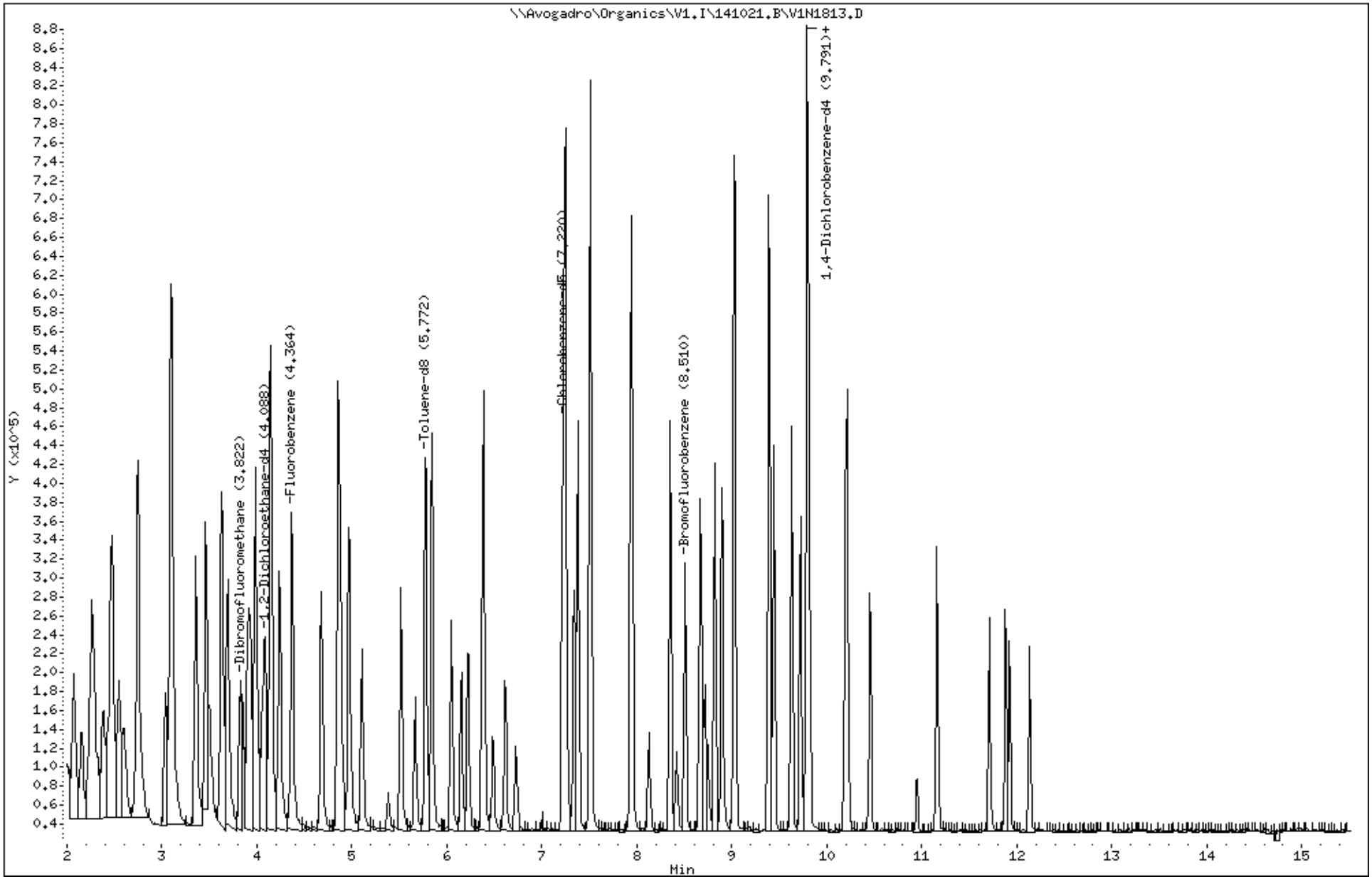
Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1813.D
Report Date: 22-Oct-2014 11:41

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	77	n-Propylbenzene	120	8.815	8.825	(0.900)	66842	50.0000	46
	78	2-Chlorotoluene	126	8.894	8.894	(0.908)	64875	50.0000	47
	79	1,3,5-Trimethylbenzene	105	9.032	9.032	(0.923)	232923	50.0000	50
	80	4-Chlorotoluene	126	9.022	9.022	(0.922)	65516	50.0000	46
	81	tert-Butylbenzene	119	9.386	9.387	(0.959)	228769	50.0000	46
	82	1,2,4-Trimethylbenzene	105	9.445	9.446	(0.965)	224020	50.0000	50
	83	sec-Butylbenzene	105	9.633	9.633	(0.984)	285791	50.0000	45
	84	1,3-Dichlorobenzene	146	9.721	9.722	(0.993)	123471	50.0000	46
	85	4-Isopropyltoluene	119	9.790	9.791	(1.000)	233574	50.0000	47
*	86	1,4-Dichlorobenzene-d4	152	9.790	9.791	(1.000)	86117	50.0000	
	87	1,4-Dichlorobenzene	146	9.820	9.820	(1.003)	124517	50.0000	46
	88	1,2-Dichlorobenzene	146	10.194	10.194	(1.041)	116603	50.0000	47
	89	n-Butylbenzene	91	10.214	10.214	(1.043)	203533	50.0000	49
	91	1,2-Dibromo-3-chloropropane	75	10.943	10.943	(1.118)	12956	50.0000	60(Q)
	93	1,3,5-Trichlorobenzene	182	11.159	11.160	(2.558)	71360	50.0000	48
	92	1,2,4-Trichlorobenzene	180	11.711	11.711	(1.196)	54192	50.0000	49
	94	Hexachlorobutadiene	225	11.888	11.879	(1.214)	35709	50.0000	47
	95	Naphthalene	128	11.918	11.918	(1.217)	130024	50.0000	55
	96	1,2,3-Trichlorobenzene	180	12.134	12.135	(1.239)	49772	50.0000	55
M	90	Xylene (Total)	106				324259	150.000	140

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1813.D
Date : 21-OCT-2014 10:37
Client ID: LCS-79617
Instrument: V1.i
Sample Info: 5ML,LCS-79617,LCS-79617,79617
Operator: WL SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-79617

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N1814.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	70	
74-87-3	Chloromethane	60	
75-01-4	Vinyl chloride	45	
74-83-9	Bromomethane	59	
75-00-3	Chloroethane	56	
75-69-4	Trichlorofluoromethane	50	
75-35-4	1,1-Dichloroethene	52	
67-64-1	Acetone	64	
75-15-0	Carbon disulfide	47	
75-09-2	Methylene chloride	51	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	53	
75-34-3	1,1-Dichloroethane	55	
78-93-3	2-Butanone	62	
156-59-2	cis-1,2-Dichloroethene	51	
74-97-5	Bromochloromethane	52	
67-66-3	Chloroform	56	
71-55-6	1,1,1-Trichloroethane	56	
56-23-5	Carbon tetrachloride	51	
107-06-2	1,2-Dichloroethane	60	
71-43-2	Benzene	53	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	54	
75-27-4	Bromodichloromethane	58	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	53	
10061-02-6	trans-1,3-Dichloropropene	56	
79-00-5	1,1,2-Trichloroethane	57	
127-18-4	Tetrachloroethene	41	
591-78-6	2-Hexanone	50	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	46	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-79617

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-79617

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N1814.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 10/21/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	48	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	46	
79-34-5	1,1,2,2-Tetrachloroethane	54	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	47	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	64	
120-82-1	1,2,4-Trichlorobenzene	51	
87-61-6	1,2,3-Trichlorobenzene	57	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	51	
123-91-1	1,4-Dioxane	820	
110-82-7	Cyclohexane	49	
79-20-9	Methyl acetate	74	
108-87-2	Methylcyclohexane	46	

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1814.D
Report Date: 22-Oct-2014 11:41

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\141021.B\V1N1814.D
Lab Smp Id: LCSD-79617 Client Smp ID: LCSD-79617
Inj Date : 21-OCT-2014 11:05
Operator : WL   SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,LCSD-79617,LCSD-79617,79617
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\141021.B\v18260GH.m
Meth Date : 22-Oct-2014 11:39 amarquis Quant Type: ISTD
Cal Date : 26-SEP-2014 10:23 Cal File: V1N1434.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.251	1.251	(0.286)	64663	50.0000	70
2	Chloromethane	50	1.389	1.389	(0.318)	148777	50.0000	60
3	Vinyl Chloride	62	1.468	1.468	(0.336)	80481	50.0000	45
4	Bromomethane	94	1.684	1.684	(0.385)	66724	50.0000	59
5	Chloroethane	64	1.753	1.753	(0.401)	67559	50.0000	56
6	Trichlorofluoromethane	101	1.931	1.931	(0.442)	91276	50.0000	50
7	Ethanol	46	2.019	2.019	(0.462)	65037	5000.00	6000(Q)
8	Ether	59	2.078	2.078	(0.475)	91146	50.0000	59(Q)
9	Acrolein	56	2.157	2.157	(0.493)	87454	250.000	220
18	1,1-Dichloroethene	96	2.266	2.266	(0.518)	68204	50.0000	52
11	Acetone	58	2.266	2.266	(0.518)	11468	50.0000	64
10	1,1,2-Trichloro-1,2,2-trifluo	101	2.275	2.275	(0.520)	77877	50.0000	51
12	Iodomethane	142	2.384	2.384	(0.545)	95848	50.0000	50
13	Carbon Disulfide	76	2.394	2.394	(0.547)	157851	50.0000	47
14	Acetonitrile	40	2.462	2.462	(0.563)	109194	500.000	600
20	Methyl Acetate	43	2.492	2.492	(0.570)	151154	50.0000	74
16	Methylene Chloride	84	2.551	2.551	(0.583)	77925	50.0000	51
25	tert-Butanol	59	2.640	2.640	(0.604)	21872	100.000	120
17	Acrylonitrile	53	2.719	2.719	(0.622)	36616	50.0000	54
19	trans-1,2-Dichloroethene	96	2.748	2.748	(0.628)	74214	50.0000	51
21	Methyl tert-butyl ether	73	2.758	2.758	(0.631)	222252	50.0000	53

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1814.D
Report Date: 22-Oct-2014 11:41

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	23	1,1-Dichloroethane	63	3.044	3.044	(0.696)	136325	50.0000	55
	15	Vinyl acetate	43	3.093	3.093	(0.707)	309012	50.0000	39
	22	Diisopropyl Ether	45	3.103	3.103	(0.709)	485092	50.0000	53
	24	Ethyl tert-butyl ether	59	3.369	3.369	(0.770)	274092	50.0000	48
	27	cis-1,2-Dichloroethene	96	3.467	3.467	(0.793)	75880	50.0000	51
	28	2-Butanone	72	3.467	3.467	(0.793)	9458	50.0000	62(Q)
	29	2,2-Dichloropropane	77	3.467	3.467	(0.793)	51990	50.0000	54
	30	Bromochloromethane	128	3.644	3.644	(0.833)	42969	50.0000	52
	26	Tetrahydrofuran	72	3.684	3.684	(0.842)	16671	100.000	98
	31	Chloroform	83	3.704	3.704	(0.847)	148856	50.0000	56
$	32	Dibromofluoromethane	113	3.822	3.822	(0.874)	95893	50.0000	55
	33	1,1,1-Trichloroethane	97	3.861	3.861	(0.883)	121489	50.0000	56
	34	Cyclohexane	56	3.930	3.930	(0.899)	155431	50.0000	49
	36	1,1-Dichloropropene	110	3.989	3.989	(0.912)	33470	50.0000	50
	37	Carbon Tetrachloride	117	3.989	3.989	(0.912)	110779	50.0000	50
$	39	1,2-Dichloroethane-d4	102	4.088	4.088	(0.935)	19849	50.0000	54
	40	1,2-Dichloroethane	62	4.147	4.147	(0.948)	128930	50.0000	60
	41	Benzene	78	4.147	4.147	(0.948)	272431	50.0000	53
	42	tert-Amyl methyl ether	73	4.245	4.245	(0.971)	194080	50.0000	47
*	43	Fluorobenzene	96	4.373	4.373	(1.000)	269485	50.0000	
	44	Trichloroethene	130	4.689	4.689	(1.072)	76097	50.0000	50
	45	Methylcyclohexane	83	4.856	4.856	(1.110)	111096	50.0000	46
	46	1,2-Dichloropropane	63	4.866	4.866	(1.113)	88165	50.0000	54
	47	Dibromomethane	93	4.964	4.964	(1.135)	51594	50.0000	57
	48	1,4-Dioxane	88	4.984	4.984	(1.140)	13188	1000.00	820
	49	Bromodichloromethane	83	5.102	5.102	(1.167)	118745	50.0000	58
M	38	1,2-dichloroethene, (Total)	100				150094	100.000	100
	50	2-Chloroethyl vinyl ether	63	5.388	5.388	(1.232)	15090	50.0000	36
	51	cis-1,3-Dichloropropene	75	5.516	5.516	(1.261)	120803	50.0000	53
	52	4-Methyl-2-pentanone	43	5.664	5.664	(1.295)	114219	50.0000	51
$	53	Toluene-d8	98	5.782	5.782	(0.801)	250081	50.0000	50
	54	Toluene	91	5.841	5.841	(1.336)	259869	50.0000	53
	55	trans-1,3-Dichloropropene	75	6.048	6.048	(1.383)	111952	50.0000	56
	56	1,1,2-Trichloroethane	97	6.225	6.225	(1.423)	60030	50.0000	57
	57	Tetrachloroethene	164	6.383	6.383	(0.884)	52223	50.0000	41
	58	1,3-Dichloropropane	76	6.392	6.392	(0.885)	109853	50.0000	54
	59	2-Hexanone	43	6.491	6.491	(0.899)	82475	50.0000	50
	60	Dibromochloromethane	129	6.619	6.619	(0.917)	90488	50.0000	52
	61	1,2-Dibromoethane	107	6.727	6.727	(0.932)	64761	50.0000	51
*	62	Chlorobenzene-d5	117	7.220	7.220	(1.000)	199577	50.0000	
	63	1-Chlorohexane	91	7.249	7.249	(1.004)	94880	50.0000	43
	64	Chlorobenzene	112	7.259	7.259	(1.005)	177827	50.0000	48
	65	1,1,1,2-Tetrachloroethane	131	7.348	7.348	(1.018)	78890	50.0000	51
	66	Ethylbenzene	106	7.387	7.387	(1.023)	84971	50.0000	46
	67	m,p-Xylene	106	7.515	7.515	(1.041)	215898	100.000	94
	68	o-Xylene	106	7.939	7.939	(1.100)	104617	50.0000	47
	69	Styrene	104	7.949	7.949	(1.101)	183850	50.0000	48
	70	Bromoform	173	8.126	8.126	(1.125)	47655	50.0000	49
	71	Isopropylbenzene	105	8.353	8.353	(1.157)	278435	50.0000	46
	72	trans-1,4-Dichloro-2-butene	75	8.412	8.412	(1.165)	19287	50.0000	46
$	73	Bromofluorobenzene	95	8.510	8.510	(1.179)	101854	50.0000	52
	74	Bromobenzene	156	8.668	8.668	(0.885)	66670	50.0000	47
	75	1,1,2,2-Tetrachloroethane	83	8.678	8.678	(0.886)	82423	50.0000	54
	76	1,2,3-Trichloropropane	75	8.717	8.717	(0.890)	81594	50.0000	50

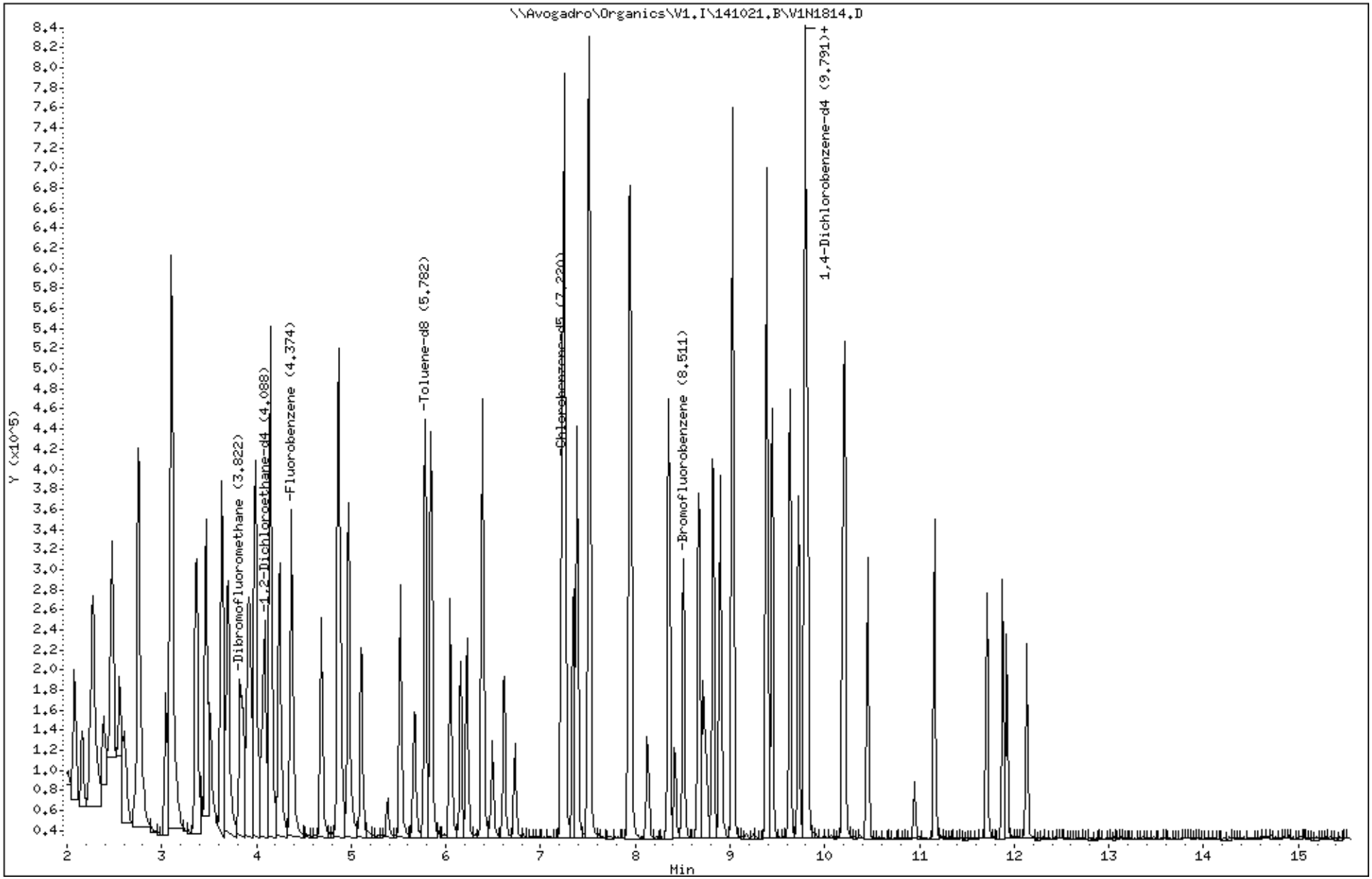
Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1814.D
Report Date: 22-Oct-2014 11:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77	n-Propylbenzene	120	8.825	8.825	(0.901)	67744	50.0000	47
78	2-Chlorotoluene	126	8.894	8.894	(0.908)	63610	50.0000	46
79	1,3,5-Trimethylbenzene	105	9.032	9.032	(0.923)	234793	50.0000	50
80	4-Chlorotoluene	126	9.022	9.022	(0.922)	65206	50.0000	46
81	tert-Butylbenzene	119	9.387	9.387	(0.959)	230442	50.0000	47
82	1,2,4-Trimethylbenzene	105	9.446	9.446	(0.965)	224416	50.0000	51
83	sec-Butylbenzene	105	9.633	9.633	(0.984)	290821	50.0000	47
84	1,3-Dichlorobenzene	146	9.722	9.722	(0.993)	125929	50.0000	47
85	4-Isopropyltoluene	119	9.791	9.791	(1.000)	244708	50.0000	50
* 86	1,4-Dichlorobenzene-d4	152	9.791	9.791	(1.000)	85353	50.0000	
87	1,4-Dichlorobenzene	146	9.820	9.820	(1.003)	126460	50.0000	47
88	1,2-Dichlorobenzene	146	10.194	10.194	(1.041)	116906	50.0000	47
89	n-Butylbenzene	91	10.214	10.214	(1.043)	217308	50.0000	52
91	1,2-Dibromo-3-chloropropane	75	10.943	10.943	(1.118)	13616	50.0000	64(Q)
93	1,3,5-Trichlorobenzene	182	11.160	11.160	(2.552)	74553	50.0000	51
92	1,2,4-Trichlorobenzene	180	11.711	11.711	(1.196)	55753	50.0000	51
94	Hexachlorobutadiene	225	11.879	11.879	(1.213)	37462	50.0000	50
95	Naphthalene	128	11.918	11.918	(1.217)	129059	50.0000	55
96	1,2,3-Trichlorobenzene	180	12.135	12.135	(1.239)	50841	50.0000	57
M 90	Xylene (Total)	106				320515	150.000	140

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\141021.B\V1N1814.D
Date : 21-OCT-2014 11:05
Client ID: LCSD-79617
Instrument: V1.i
Sample Info: 5ML,LCSD-79617,LCSD-79617,79617
Operator: WL SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Percent Moisture and Percent Solids Report

Lab Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
N1943-01A	(211) TR-1 (13)	10/17/2014	6.114	93.886	Yes
N1943-02A	(211) TR-2 (11)	10/17/2014	8.172	91.828	Yes
N1943-03A	(211) TR-3 (11)	10/17/2014	6.555	93.445	Yes
N1943-04A	(211) TR-4 (11)	10/17/2014	6.769	93.231	Yes
N1943-05A	(211) TR-5 (11)	10/17/2014	8.877	91.123	Yes
N1943-06A	(211) TR-6 (14)	10/17/2014	6.995	93.005	Yes

[redacted] INJECTION LOG [redacted] VOLATILES LABORATORY

Spectrum Analytical, Inc. RI Division V1 Injection Log
Volatiles Laboratory

METHOD: 8260C
ICAL DATE: 9-26-14

ANALYST: [signature]

BATCH: 140926.B

Start: 26-SEP-14 08:22
End: 26-SEP-14 16:47

Comments:

Standards: DFTPP VM140826A 2 uL
ISTDS VM140916B 100 uL
STD VM140916B5 ____ uL
____ ____ uL

Reviewed By: [signature] 10/2/14

Manual Integration: ____

MI Review: ____

ICV: VM140918B

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS FBZ	INTERNAL STDS CBZ	INTERNAL STDS DCB	SURROGATES DFM	SURROGATES DCE	SURROGATES TOL	SURROGATES BFB	DILN	FLG	COMMENTS	pH
V1N1430	08:22	BFB1A	BFB1A		SL									1		OK	
V1N1431	08:40	VSTD0501A	VSTD0501A		SL		143	134	120					1		NOT USED	
V1N1432	09:18	VSTD0501A	VSTD0501A		SL		100	100	100					1		OK	
V1N1433	09:56	VSTD0201A	VSTD0201A		SL		92	95	91					1		OK	
V1N1434	10:23	VSTD0051A	VSTD0051A		SL		92	94	88					1		OK MI_14	
V1N1435	10:51	VSTD2001A	VSTD2001A		SL		94	98	105					1		OK	
V1N1436	11:18	VSTD1001A	VSTD1001A		SL		82	86	88					1		OK	
V1N1437	11:46	VICV0501A	VICV0501A		SL		88	90	91	98	94	103	100	1	R	OK	
V1N1438	12:13	LCS-79227	LCS-79227	79227	SL		86	93	91	103	105	100	99	1	R	OK	
V1N1439	12:40	MB-79227	MB-79227	79227	SL		87	92	84	103	101	100	96	1		NOT USED	
V1N1440	13:08	MB-79227	MB-79227	79227	SL		85	87	83	100	98	102	96	1		OK	
V1N1441	13:35	N1762-01C	SP-100(LNG92014	79227	SL	1	84	89	80	105	99	104	97	1		OK	
V1N1442	14:03	N1762-02C	SP-101(LNG92014	79227	SL	1	91	93	81	104	96	102	95	1		OK	
V1N1443	14:30	N1772-02A	NYSS-1G	79227	SL	1	82	82	67	105	104	103	92	1		OK	
V1N1444	14:57	N1759-01B	H.OIL SPILL FLO	79227	SL	1	76	77	63	106	102	102	93	1		OK	
V1N1445	15:25	N1545-05D	F9 Week 4	79227	SL		84	87	77	103	98	103	93	1		OK	
V1N1446	15:52	N1545-06D	F10 Week 4	79227	SL		83	84	75	102	97	104	97	1		OK	
V1N1447	16:20	N1137-02A	lod soil	79227	SL		81	85	80	102	97	103	96	1		OK	
V1N1448	16:47	N1137-04A	loq soil	79227	SL		84	88	83	104	103	102	98	1		OK	

* - Internal Standard or Surrogate outside of control limits
E - One or more target compounds are above the calibration range
T - Sample was injected outside of the 12 hour sequence
R - One or more spike compounds are outside of control limits
D - Surrogates are diluted

[signature] 9-30-14

INJECTION LOG

VOLATILES LABORATORY

Spectrum Analytical, Inc. RI Division V1 Injection Log
Volatiles Laboratory

METHOD: 8260L
ICAL DATE: 9-26-14
ANALYST: [illegible]
BATCH: 141021.B
Start: 21-OCT-14 09:01
End: 21-OCT-14 16:31

Comments:

Standards: BFB VW140822A 2 uL
IS1S VW141014A 400 uL
STD VW141015A 2.5 uL
_____ ____ uL

Reviewed By: [illegible] 10/24/14
Manual Integration: _____
MI Review: _____
ICV: _____

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS FBZ	CBZ	DCB	SURROGATES DFM	DCE	TOL	BFB	DILN	FLG	COMMENTS	pH
V1N1810	09:01	BFB1P	BFB1P		SL									1		OK	
V1N1811	09:19	VSTD0501P	VSTD0501P		SL		100	100	100					1		MAY USED	
V1N1812	10:00	VSTD0501P	VSTD0501P		SL		100	100	100					1		OK	
V1N1813	10:37	LCS-79617	LCS-79617	79617	SL		83	83	86	108	106	96	104	1	R	OK	
V1N1814	11:05	LCSD-79617	LCSD-79617	79617	SL		81	81	85	110	108	99	104	1	R	OK	
V1N1815	11:32	MB-79617	MB-79617	79617	SL		40*	48*	57	115	106	86	114	1		MAY USED	
V1N1816	12:00	MB-79617	MB-79617	79617	SL		70	69	61	108	94	101	97	1		MAY USED	
V1N1817	12:27	MB-79617	MB-79617	79617	SL		72	71	63	110	104	98	97	1		OK	
V1N1818	12:54	N1906-01A	MML-SHS-04AOI3-	79617	SL	1	72	71	55	114	110	116*	104	1		OK	
V1N1819	13:21	N1943-01C	(211) TR-1 (13)	79617	SL	1	74	75	73	113	110*	98	107	1		OK	
V1N1820	13:49	N1943-02C	(211) TR-2 (11)	79617	SL	1	71	71	62	113	104	98	100	1		OK	
V1N1821	14:16	N1943-03C	(211) TR-3 (11)	79617	SL	1	72	72	68	117	108	98	101	1		OK	
V1N1822	14:42	N1943-04C	(211) TR-4 (11)	79617	SL	1	71	71	65	116	108	97	101	1		OK	
V1N1823	15:09	N1943-05C	(211) TR-5 (11)	79617	SL	1	71	64	60	116	111*	110	107	1		OK	
V1N1824	15:36	N1943-06C	(211) TR-6 (14)	79617	SL	1	60	61	55	116	113*	99	102	1		OK	
V1N1825	16:03	VBLK	VBLK		SL		0*	0*	0*	0*	0*	0*	0*	1		MAY USED	RT
V1N1826	16:31	VBLK	VBLK		SL		70	69	61	116	109	101	96	1			

* - Internal Standard or Surrogate outside of control limits
E - One or more target compounds are above the calibration range
T - Sample was injected outside of the 12 hour sequence
R - One or more spike compounds are outside of control limits
D - Surrogates are diluted

10-22-14

N1943

Spectrum Analytical, Inc. RI Division: Volatile Organics Low/Medium Level Soil Extraction Log

Date	Lab ID		Analysis	Initial Wt. (g)	Final Wt. (g)	Sample Wt. (g)	Extraction Volume (mL)	Sample Type	Solvent&Lot# by/Date*	Comments/ Time of Encore transfer	Analyst
10-21-14	MB-79617		8260	NA	NA	5.0	5.0	E	DI H2O		
	LCS-79617			NA	NA	5.0		E			
	N1906	01A		32.01	40.07	8.1		D			
	N1943	01C		31.95	42.44	10.3					
		02C		32.24	42.85	10.6					
		03C		32.18	46.99	14.8					
		04C		32.47	42.35	9.9					
		05C		32.51	42.81	10.3					
10-21-14	N1943	06C	8260	31.93	45.70	13.8	5.0	D	DI H2O		
10/24/14	MB-79638		GRO	NA	NA	5.0		E	MeOH		
	LCS-79638							E			
	LCSD-79638			NA	NA	5.0		E			
	N1973	-01B		29.37	36.57	7.2		A			
10/24/14	N1973	-02B	GRO	29.27	37.45	8.2	5.0	A	MeOH		

Tab # 4

*=Date added, if different than Rec. date

Sample Type: A. MeOH Pre-preserved; B. DI H2O/Freeze; C. NaHSO4 Pre-preserved; D. Encore; E. Unpreserved Jars

Logbook ID: 90.0189-10/14

Reviewed By: JMS 10/27/14

N1943

Spectrum Analytical, Inc. RI Division : VOLATILE SAMPLES RECEIVING LOGBOOK

VOA Log-In Date	Workorder	Client ID	Sample Numbers	Relinquished by:	Received by:	Pres. Used	F/R	Returned to R23
10/16/14	N1939	HGL	01 - 10	WJL		H	R10	
10/16/14	N1906	BERGER	01	WJL		F	F10	
10/17/14	N1943	DAY	01-06	KP		F	F10	
10/17/14	N1943	DAY	01-06	KP		M	R10	
~~N1946~~	~~A KP~~	10/17/14						
10/17/14	N1946	EPA	1-10	KP		Na	F13	
10/17/14	N1946	EPA	1-10	KP		M	R13	
10/17/14	N1945	EPA	01-04	KP		H	R13	
10/17/14	N1945	EPA	10	KP		PE	R13	
↓	N1947	MABBETT	01-02	WJL		M	R8	
10/17/14	N1950	LABELLA	01-05	WJL		H	R8	
|	N1951	CDM	01	WJL		H	R8	
↓	N1945	EPA	11-17	WJL		T	R4	
10/17/14	N1945	EPA	12-18	WJL		N	F13	

Logbook ID 90.0191-08/14

Reviewed By: 10/17/14

"Preservative Used" Key

UA = Unpreserved Aqueous
US = Unpreserved Soil
H = HCL **A** = Air **M** = MeOH **E** = Encore
N = $NaHSO_4$ **P**=PE ampule **F** = Freeze **T** = Trace, HCL

* Semivolatile Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Day Environmental, Inc

Project: 211 Franklin Street

Laboratory Workorder / SDG #: N1943

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi

Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973
GC Column used: 30 m X 0.25 mm ID [0.25 um thickness] Rxi-5sil MS capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-79704 in batch 79704, recovery is above criteria for Bis(2-chloroethyl)ether at 106% with criteria of (40-105), Indeno(1,2,3-cd)pyrene at 121% with criteria of (40-120), Pentachlorophenol at 120% with criteria of (25-120), recovery is below criteria for 3,3´-Dichlorobenzidine at 10% with criteria of (10-130), 3-Nitroaniline at 25% with criteria of (25-110) and 4-Chloroaniline at 10% with criteria of (10-100).

LCS-79722 in batch 79722, recovery is above criteria for Bis(2-chloroethyl)ether at 108% with criteria of (40-105).

LCSD-79704 in batch 79704, recovery is above criteria for Bis(2-chloroethyl)ether at 107% with criteria of (40-105).

LCSD-79722 in batch 79722, recovery is below criteria for N-Nitroso-di-n-propylamine at 24% with criteria of (40-115).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integrations were performed on the following:

SSTD0056L 2,4-Dinitrophenol due to M6

SSTD0256L 2,4-Dinitrophenol due to M6

SSTD0256N 2-Methylnaphthalene due to M1

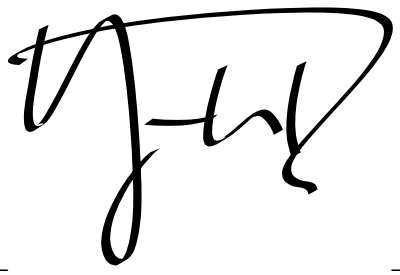
SSTD0406L Nitrobenzene due to M6

SSTD0606L 2,4-Dinitrophenol , Nitrobenzene due to M6

SSTD0806L 2,4-Dinitrophenol , Indeno(1,2,3-cd)pyrene,

Nitrobenzene due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____10/29/2014_____

Data Flag/Qualifiers (Page 1 of 2):

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as an aldol condensation by-product.

Data Flag/Qualifiers (Page 2 of 2):

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

L NYSDEC qualifier: Result is biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

2K - FORM II SV-4

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (NBZ) #	SDMC2 (FBP) #	SDMC3 (TPH) #	SDMC4 (PHL) #	SDMC5 (2FP) #	SDMC6 (TBP) #			TOT OUT
01	MB-79704	91	93	106	82	90	98			0
02	LCS-79704	96	96	100	77	88	103			0
03	LCSD-79704	87	91	96	75	82	98			0
04	(211) TR-2 (11)	80	84	92	64	72	89			0
05	(211) TR-3 (11)	83	85	92	66	76	87			0
06	(211) TR-4 (11)	81	84	92	67	72	91			0
07	(211) TR-5 (11)	81	85	93	66	73	89			0
08	(211) TR-6 (14)	86	88	95	71	76	90			0
09	MB-79722	95	97	106	76	85	94			0
10	LCS-79722	94	96	97	80	86	101			0
11	LCSD-79722	93	93	95	75	82	93			0
12	(211) TR-1 (13)	96	101	103	74	82	99			0

		QC LIMITS
SDMC1	(NBZ) = Nitrobenzene-d5	(35-100)
SDMC2	(FBP) = 2-Fluorobiphenyl	(45-105)
SDMC3	(TPH) = Terphenyl-d14	(30-125)
SDMC4	(PHL) = Phenol-d5	(40-100)
SDMC5	(2FP) = 2-Fluorophenol	(35-105)
SDMC6	(TBP) = 2,4,6-Tribromophenol	(35-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

som14.10.02.1616

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCS-79704 LCS Lot No.: A0103342

Date Extracted: 10/27/2014 Date Analyzed (1): 10/27/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	3333.0000	0.0000	2732.1378	82		40 - 100
Bis(2-chloroethyl)ether	3333.0000	0.0000	3545.7122	106	*	40 - 105
2-Chlorophenol	3333.0000	0.0000	2649.3848	79		45 - 105
2-Methylphenol	3333.0000	0.0000	2646.4812	79		40 - 105
2,2´-oxybis(1-Chloropropan	3333.0000	0.0000	2712.9306	81		20 - 115
4-Methylphenol	3333.0000	0.0000	2747.3513	82		40 - 105
N-Nitroso-di-n-propylamine	3333.0000	0.0000	2623.9144	79		40 - 115
Hexachloroethane	3333.0000	0.0000	3075.3122	92		35 - 110
Nitrobenzene	3333.0000	0.0000	2675.3868	80		40 - 115
Isophorone	3333.0000	0.0000	3150.2852	95		45 - 110
2-Nitrophenol	3333.0000	0.0000	2819.0250	85		40 - 110
2,4-Dimethylphenol	3333.0000	0.0000	2895.0587	87		30 - 105
2,4-Dichlorophenol	3333.0000	0.0000	2941.8102	88		45 - 110
Naphthalene	3333.0000	0.0000	3251.6579	98		40 - 105
4-Chloroaniline	3333.0000	0.0000	323.0168	10	*	10 - 100
Bis(2-chloroethoxy)methane	3333.0000	0.0000	2923.4224	88		45 - 110
Hexachlorobutadiene	3333.0000	0.0000	3207.4687	96		40 - 115
4-Chloro-3-methylphenol	3333.0000	0.0000	2910.2655	87		45 - 115
2-Methylnaphthalene	3333.0000	0.0000	2658.9022	80		45 - 105
Hexachlorocyclopentadiene	3333.0000	0.0000	4051.2206	122		8 - 148
2,4,6-Trichlorophenol	3333.0000	0.0000	3056.9899	92		45 - 110
2,4,5-Trichlorophenol	3333.0000	0.0000	3079.7563	92		50 - 110
2-Chloronaphthalene	3333.0000	0.0000	3378.6536	101		45 - 105
2-Nitroaniline	3333.0000	0.0000	3083.3587	93		45 - 120
Dimethylphthalate	3333.0000	0.0000	3253.1532	98		50 - 110
Acenaphthylene	3333.0000	0.0000	3150.4191	95		45 - 105
2,6-Dinitrotoluene	3333.0000	0.0000	3131.2925	94		50 - 110
3-Nitroaniline	3333.0000	0.0000	827.4071	25	*	25 - 110
Acenaphthene	3333.0000	0.0000	3202.3293	96		45 - 110
2,4-Dinitrophenol	3333.0000	0.0000	3640.1988	109		15 - 130
4-Nitrophenol	3333.0000	0.0000	3304.0235	99		15 - 140
Dibenzofuran	3333.0000	0.0000	3068.9465	92		50 - 105
2,4-Dinitrotoluene	3333.0000	0.0000	3209.5806	96		50 - 115
Diethylphthalate	3333.0000	0.0000	3264.3645	98		50 - 115
4-Chlorophenyl-phenylether	3333.0000	0.0000	3209.6393	96		45 - 110
Fluorene	3333.0000	0.0000	3130.9537	94		50 - 110
4-Nitroaniline	3333.0000	0.0000	2304.3504	69		35 - 115
4,6-Dinitro-2-methylphenol	3333.0000	0.0000	3100.9303	93		30 - 135
N-Nitrosodiphenylamine	3333.0000	0.0000	2722.2242	82		50 - 115
4-Bromophenyl-phenylether	3333.0000	0.0000	3446.6382	103		45 - 115
Hexachlorobenzene	3333.0000	0.0000	3409.8228	102		45 - 120
Pentachlorophenol	3333.0000	0.0000	4011.6670	120	*	25 - 120
Phenanthrene	3333.0000	0.0000	3296.5124	99		50 - 110
Anthracene	3333.0000	0.0000	3185.1976	96		55 - 105

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCS-79704 LCS Lot No.: A0103342

Date Extracted: 10/27/2014 Date Analyzed (1): 10/27/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Carbazole	3333.0000	0.0000	2629.1145	79		45 - 115
Di-n-butylphthalate	3333.0000	0.0000	3303.4798	99		55 - 110
Fluoranthene	3333.0000	0.0000	3221.5151	97		55 - 115
Pyrene	3333.0000	0.0000	3211.6715	96		45 - 125
Butylbenzylphthalate	3333.0000	0.0000	3361.6937	101		50 - 125
3,3´-Dichlorobenzidine	3333.0000	0.0000	321.3821	10	*	10 - 130
Benzo(a)anthracene	3333.0000	0.0000	3054.3212	92		50 - 110
Chrysene	3333.0000	0.0000	3229.2107	97		55 - 110
Bis(2-ethylhexyl)phthalate	3333.0000	0.0000	3166.0845	95		45 - 125
Di-n-octylphthalate	3333.0000	0.0000	3912.3672	117		40 - 130
Benzo(b)fluoranthene	3333.0000	0.0000	3542.4558	106		45 - 115
Benzo(k)fluoranthene	3333.0000	0.0000	4047.2521	121		45 - 125
Benzo(a)pyrene	3333.0000	0.0000	3552.4804	107		50 - 110
Indeno(1,2,3-cd)pyrene	3333.0000	0.0000	4028.7634	121	*	40 - 120
Dibenzo(a,h)anthracene	3333.0000	0.0000	3594.6394	108		40 - 125
Benzo(g,h,i)perylene	3333.0000	0.0000	3530.4215	106		40 - 125
1,1´-Biphenyl	3333.0000	0.0000	3188.5376	96		50 - 121
1,2,4,5-Tetrachlorobenzene	3333.0000	0.0000	3424.0846	103		50 - 126
Acetophenone	3333.0000	0.0000	2888.6232	87		50 - 150
Atrazine	3333.0000	0.0000	1952.1468	59		50 - 150
Benzaldehyde	3333.0000	0.0000	3094.2574	93		10 - 118
Caprolactam	3333.0000	0.0000	3030.7557	91		41 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 6 out of 66 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCS-79722 LCS Lot No.: A0103342

Date Extracted: 10/28/2014 Date Analyzed (1): 10/28/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	3333.0000	0.0000	2740.1826	82		40 - 100
Bis(2-chloroethyl)ether	3333.0000	0.0000	3600.5087	108	*	40 - 105
2-Chlorophenol	3333.0000	0.0000	2620.7829	79		45 - 105
2-Methylphenol	3333.0000	0.0000	2576.9328	77		40 - 105
2,2´-oxybis(1-Chloropropan	3333.0000	0.0000	2701.5561	81		20 - 115
4-Methylphenol	3333.0000	0.0000	2708.3549	81		40 - 105
N-Nitroso-di-n-propylamine	3333.0000	0.0000	2604.4107	78		40 - 115
Hexachloroethane	3333.0000	0.0000	2930.2034	88		35 - 110
Nitrobenzene	3333.0000	0.0000	2513.8706	75		40 - 115
Isophorone	3333.0000	0.0000	3004.2091	90		45 - 110
2-Nitrophenol	3333.0000	0.0000	2682.5258	80		40 - 110
2,4-Dimethylphenol	3333.0000	0.0000	2723.0955	82		30 - 105
2,4-Dichlorophenol	3333.0000	0.0000	2711.8538	81		45 - 110
Naphthalene	3333.0000	0.0000	3110.7517	93		40 - 105
4-Chloroaniline	3333.0000	0.0000	1580.0207	47		10 - 100
Bis(2-chloroethoxy)methane	3333.0000	0.0000	2843.9283	85		45 - 110
Hexachlorobutadiene	3333.0000	0.0000	3060.0862	92		40 - 115
4-Chloro-3-methylphenol	3333.0000	0.0000	2854.4064	86		45 - 115
2-Methylnaphthalene	3333.0000	0.0000	2379.4402	71		45 - 105
Hexachlorocyclopentadiene	3333.0000	0.0000	3271.6077	98		8 - 148
2,4,6-Trichlorophenol	3333.0000	0.0000	2963.6589	89		45 - 110
2,4,5-Trichlorophenol	3333.0000	0.0000	2990.2544	90		50 - 110
2-Chloronaphthalene	3333.0000	0.0000	3101.1838	93		45 - 105
2-Nitroaniline	3333.0000	0.0000	3047.3785	91		45 - 120
Dimethylphthalate	3333.0000	0.0000	3253.7125	98		50 - 110
Acenaphthylene	3333.0000	0.0000	3080.6910	92		45 - 105
2,6-Dinitrotoluene	3333.0000	0.0000	3168.8165	95		50 - 110
3-Nitroaniline	3333.0000	0.0000	2102.6188	63		25 - 110
Acenaphthene	3333.0000	0.0000	3106.1664	93		45 - 110
2,4-Dinitrophenol	3333.0000	0.0000	2522.1708	76		15 - 130
4-Nitrophenol	3333.0000	0.0000	3174.5208	95		15 - 140
Dibenzofuran	3333.0000	0.0000	2976.8598	89		50 - 105
2,4-Dinitrotoluene	3333.0000	0.0000	3129.6947	94		50 - 115
Diethylphthalate	3333.0000	0.0000	3293.0215	99		50 - 115
4-Chlorophenyl-phenylether	3333.0000	0.0000	3251.5755	98		45 - 110
Fluorene	3333.0000	0.0000	3158.0359	95		50 - 110
4-Nitroaniline	3333.0000	0.0000	2910.5568	87		35 - 115
4,6-Dinitro-2-methylphenol	3333.0000	0.0000	2379.6397	71		30 - 135
N-Nitrosodiphenylamine	3333.0000	0.0000	3004.7183	90		50 - 115
4-Bromophenyl-phenylether	3333.0000	0.0000	3164.2405	95		45 - 115
Hexachlorobenzene	3333.0000	0.0000	3357.4879	101		45 - 120
Pentachlorophenol	3333.0000	0.0000	3457.9498	104		25 - 120
Phenanthrene	3333.0000	0.0000	3150.5552	95		50 - 110
Anthracene	3333.0000	0.0000	3196.9779	96		55 - 105

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCS-79722 LCS Lot No.: A0103342

Date Extracted: 10/28/2014 Date Analyzed (1): 10/28/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Carbazole	3333.0000	0.0000	3009.2377	90		45 - 115
Di-n-butylphthalate	3333.0000	0.0000	3193.6502	96		55 - 110
Fluoranthene	3333.0000	0.0000	3148.0512	94		55 - 115
Pyrene	3333.0000	0.0000	3097.2751	93		45 - 125
Butylbenzylphthalate	3333.0000	0.0000	3243.5766	97		50 - 125
3,3´-Dichlorobenzidine	3333.0000	0.0000	2395.2449	72		10 - 130
Benzo(a)anthracene	3333.0000	0.0000	3058.1630	92		50 - 110
Chrysene	3333.0000	0.0000	3267.9409	98		55 - 110
Bis(2-ethylhexyl)phthalate	3333.0000	0.0000	3186.5448	96		45 - 125
Di-n-octylphthalate	3333.0000	0.0000	3539.4174	106		40 - 130
Benzo(b)fluoranthene	3333.0000	0.0000	3195.1970	96		45 - 115
Benzo(k)fluoranthene	3333.0000	0.0000	3396.6664	102		45 - 125
Benzo(a)pyrene	3333.0000	0.0000	3167.9487	95		50 - 110
Indeno(1,2,3-cd)pyrene	3333.0000	0.0000	3174.4258	95		40 - 120
Dibenzo(a,h)anthracene	3333.0000	0.0000	3063.7523	92		40 - 125
Benzo(g,h,i)perylene	3333.0000	0.0000	3067.6895	92		40 - 125
1,1´-Biphenyl	3333.0000	0.0000	3120.9833	94		50 - 121
1,2,4,5-Tetrachlorobenzene	3333.0000	0.0000	3245.6067	97		50 - 126
Acetophenone	3333.0000	0.0000	2466.2675	74		50 - 150
Atrazine	3333.0000	0.0000	2657.4774	80		50 - 150
Benzaldehyde	3333.0000	0.0000	785.2895	24		10 - 118
Caprolactam	3333.0000	0.0000	2930.6650	88		41 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 66 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCSD-79704 LCS Lot No.: A0103342

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	3333.0000	2704.1651	81		1		40	40 - 100
Bis(2-chloroethyl)ether	3333.0000	3554.1926	107	*	1		40	40 - 105
2-Chlorophenol	3333.0000	2613.8427	78		1		40	45 - 105
2-Methylphenol	3333.0000	2574.7107	77		3		40	40 - 105
2,2´-oxybis(1-Chloropropan	3333.0000	2660.5170	80		1		40	20 - 115
4-Methylphenol	3333.0000	2720.5819	82		0		40	40 - 105
N-Nitroso-di-n-propylamine	3333.0000	2609.5873	78		1		40	40 - 115
Hexachloroethane	3333.0000	3073.5094	92		0		40	35 - 110
Nitrobenzene	3333.0000	2525.8803	76		5		40	40 - 115
Isophorone	3333.0000	2975.6799	89		7		40	45 - 110
2-Nitrophenol	3333.0000	2651.3281	80		6		40	40 - 110
2,4-Dimethylphenol	3333.0000	2700.6832	81		7		40	30 - 105
2,4-Dichlorophenol	3333.0000	2734.2611	82		7		40	45 - 110
Naphthalene	3333.0000	3071.7001	92		6		40	40 - 105
4-Chloroaniline	3333.0000	1231.9661	37		115	*	40	10 - 100
Bis(2-chloroethoxy)methane	3333.0000	2781.1314	83		6		40	45 - 110
Hexachlorobutadiene	3333.0000	3037.8898	91		5		40	40 - 115
4-Chloro-3-methylphenol	3333.0000	2801.4538	84		4		40	45 - 115
2-Methylnaphthalene	3333.0000	2117.7953	64		22		40	45 - 105
Hexachlorocyclopentadiene	3333.0000	3704.7973	111		9		40	8 - 148
2,4,6-Trichlorophenol	3333.0000	2908.3643	87		6		40	45 - 110
2,4,5-Trichlorophenol	3333.0000	2914.2177	87		6		40	50 - 110
2-Chloronaphthalene	3333.0000	3169.5212	95		6		40	45 - 105
2-Nitroaniline	3333.0000	3075.3894	92		1		40	45 - 120
Dimethylphthalate	3333.0000	3156.0491	95		3		40	50 - 110
Acenaphthylene	3333.0000	3074.1629	92		3		40	45 - 105
2,6-Dinitrotoluene	3333.0000	3145.3142	94		0		40	50 - 110
3-Nitroaniline	3333.0000	1762.4431	53		72	*	40	25 - 110
Acenaphthene	3333.0000	3109.7192	93		3		40	45 - 110
2,4-Dinitrophenol	3333.0000	3493.7972	105		4		40	15 - 130
4-Nitrophenol	3333.0000	3384.9700	102		3		40	15 - 140
Dibenzofuran	3333.0000	2928.1691	88		4		40	50 - 105
2,4-Dinitrotoluene	3333.0000	3173.3642	95		1		40	50 - 115
Diethylphthalate	3333.0000	3286.5989	99		1		40	50 - 115
4-Chlorophenyl-phenylether	3333.0000	3039.7782	91		5		40	45 - 110
Fluorene	3333.0000	3058.8326	92		2		40	50 - 110
4-Nitroaniline	3333.0000	2915.6086	87		23		40	35 - 115
4,6-Dinitro-2-methylphenol	3333.0000	3022.5811	91		2		40	30 - 135
N-Nitrosodiphenylamine	3333.0000	3067.1839	92		11		40	50 - 115
4-Bromophenyl-phenylether	3333.0000	3219.4171	97		6		40	45 - 115
Hexachlorobenzene	3333.0000	3386.9078	102		0		40	45 - 120
Pentachlorophenol	3333.0000	3754.1248	113		6		40	25 - 120
Phenanthrene	3333.0000	3232.7583	97		2		40	50 - 110
Anthracene	3333.0000	3211.2832	96		0		40	55 - 105
Carbazole	3333.0000	3088.6651	93		16		40	45 - 115
Di-n-butylphthalate	3333.0000	3277.6839	98		1		40	55 - 110

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCSD-79704 LCS Lot No.: A0103342

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Fluoranthene	3333.0000	3232.3067	97		0		40	55 - 115
Pyrene	3333.0000	3246.0754	97		1		40	45 - 125
Butylbenzylphthalate	3333.0000	3415.5750	102		1		40	50 - 125
3,3´-Dichlorobenzidine	3333.0000	2570.2841	77		154	*	40	10 - 130
Benzo(a)anthracene	3333.0000	3259.2440	98		6		40	50 - 110
Chrysene	3333.0000	3351.8434	101		4		40	55 - 110
Bis(2-ethylhexyl)phthalate	3333.0000	3254.7860	98		3		40	45 - 125
Di-n-octylphthalate	3333.0000	3602.6368	108		8		40	40 - 130
Benzo(b)fluoranthene	3333.0000	3236.8311	97		9		40	45 - 115
Benzo(k)fluoranthene	3333.0000	3831.2731	115		5		40	45 - 125
Benzo(a)pyrene	3333.0000	3375.1965	101		6		40	50 - 110
Indeno(1,2,3-cd)pyrene	3333.0000	3263.4798	98		21		40	40 - 120
Dibenzo(a,h)anthracene	3333.0000	3313.4689	99		9		40	40 - 125
Benzo(g,h,i)perylene	3333.0000	3339.9706	100		6		40	40 - 125
1,1´-Biphenyl	3333.0000	3094.3297	93		3		40	50 - 121
1,2,4,5-Tetrachlorobenzene	3333.0000	3341.8090	100		3		40	50 - 126
Acetophenone	3333.0000	2677.8869	80		8		40	50 - 150
Atrazine	3333.0000	2679.7733	80		30		40	50 - 150
Benzaldehyde	3333.0000	2330.1485	70		28		40	10 - 118
Caprolactam	3333.0000	2892.9003	87		4		40	41 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 66 outside limits

Spike Recovery: 1 out of 66 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCSD-79722 LCS Lot No.: A0103342

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	3333.0000	2532.5492	76		8		40	40 - 100
Bis(2-chloroethyl)ether	3333.0000	2914.8089	87		22		40	40 - 105
2-Chlorophenol	3333.0000	2548.8161	76		4		40	45 - 105
2-Methylphenol	3333.0000	2564.2504	77		0		40	40 - 105
2,2´-oxybis(1-Chloropropan	3333.0000	2683.0159	80		1		40	20 - 115
4-Methylphenol	3333.0000	2660.5992	80		1		40	40 - 105
N-Nitroso-di-n-propylamine	3333.0000	801.4476	24	*	106	*	40	40 - 115
Hexachloroethane	3333.0000	3178.1145	95		8		40	35 - 110
Nitrobenzene	3333.0000	2580.2571	77		3		40	40 - 115
Isophorone	3333.0000	3029.7719	91		1		40	45 - 110
2-Nitrophenol	3333.0000	2705.7812	81		1		40	40 - 110
2,4-Dimethylphenol	3333.0000	2614.9729	78		5		40	30 - 105
2,4-Dichlorophenol	3333.0000	2700.7099	81		0		40	45 - 110
Naphthalene	3333.0000	3163.5612	95		2		40	40 - 105
4-Chloroaniline	3333.0000	1527.1879	46		2		40	10 - 100
Bis(2-chloroethoxy)methane	3333.0000	2793.7841	84		1		40	45 - 110
Hexachlorobutadiene	3333.0000	3202.1010	96		4		40	40 - 115
4-Chloro-3-methylphenol	3333.0000	2637.5282	79		8		40	45 - 115
2-Methylnaphthalene	3333.0000	2094.9401	63		12		40	45 - 105
Hexachlorocyclopentadiene	3333.0000	3600.1580	108		10		40	8 - 148
2,4,6-Trichlorophenol	3333.0000	2911.2199	87		2		40	45 - 110
2,4,5-Trichlorophenol	3333.0000	2961.4174	89		1		40	50 - 110
2-Chloronaphthalene	3333.0000	3161.0188	95		2		40	45 - 105
2-Nitroaniline	3333.0000	3029.8535	91		0		40	45 - 120
Dimethylphthalate	3333.0000	3152.9909	95		3		40	50 - 110
Acenaphthylene	3333.0000	3078.7871	92		0		40	45 - 105
2,6-Dinitrotoluene	3333.0000	3031.4061	91		4		40	50 - 110
3-Nitroaniline	3333.0000	1946.8381	58		8		40	25 - 110
Acenaphthene	3333.0000	3095.1160	93		0		40	45 - 110
2,4-Dinitrophenol	3333.0000	2265.5511	68		11		40	15 - 130
4-Nitrophenol	3333.0000	2936.3729	88		8		40	15 - 140
Dibenzofuran	3333.0000	2902.1714	87		2		40	50 - 105
2,4-Dinitrotoluene	3333.0000	2969.1103	89		5		40	50 - 115
Diethylphthalate	3333.0000	3074.4386	92		7		40	50 - 115
4-Chlorophenyl-phenylether	3333.0000	3069.5155	92		6		40	45 - 110
Fluorene	3333.0000	3063.9931	92		3		40	50 - 110
4-Nitroaniline	3333.0000	2574.0510	77		12		40	35 - 115
4,6-Dinitro-2-methylphenol	3333.0000	2538.8401	76		7		40	30 - 135
N-Nitrosodiphenylamine	3333.0000	3008.1734	90		0		40	50 - 115
4-Bromophenyl-phenylether	3333.0000	3239.2442	97		2		40	45 - 115
Hexachlorobenzene	3333.0000	3317.2124	100		1		40	45 - 120
Pentachlorophenol	3333.0000	3487.5427	105		1		40	25 - 120
Phenanthrene	3333.0000	3150.2094	95		0		40	50 - 110
Anthracene	3333.0000	3042.8089	91		5		40	55 - 105
Carbazole	3333.0000	2924.8877	88		2		40	45 - 115
Di-n-butylphthalate	3333.0000	3154.3592	95		1		40	55 - 110

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab Sample ID: LCSD-79722 LCS Lot No.: A0103342

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Fluoranthene	3333.0000	2970.6655	89		5		40	55 - 115
Pyrene	3333.0000	3137.5749	94		1		40	45 - 125
Butylbenzylphthalate	3333.0000	3236.3811	97		0		40	50 - 125
3,3´-Dichlorobenzidine	3333.0000	2317.4028	70		3		40	10 - 130
Benzo(a)anthracene	3333.0000	2958.9260	89		3		40	50 - 110
Chrysene	3333.0000	3088.7542	93		5		40	55 - 110
Bis(2-ethylhexyl)phthalate	3333.0000	3126.9951	94		2		40	45 - 125
Di-n-octylphthalate	3333.0000	3380.8355	101		5		40	40 - 130
Benzo(b)fluoranthene	3333.0000	3297.4825	99		3		40	45 - 115
Benzo(k)fluoranthene	3333.0000	3100.9961	93		9		40	45 - 125
Benzo(a)pyrene	3333.0000	3131.3196	94		1		40	50 - 110
Indeno(1,2,3-cd)pyrene	3333.0000	3582.8427	107		12		40	40 - 120
Dibenzo(a,h)anthracene	3333.0000	3191.0964	96		4		40	40 - 125
Benzo(g,h,i)perylene	3333.0000	3261.2297	98		6		40	40 - 125
1,1´-Biphenyl	3333.0000	3142.9067	94		0		40	50 - 121
1,2,4,5-Tetrachlorobenzene	3333.0000	3381.9733	101		4		40	50 - 126
Acetophenone	3333.0000	2448.2591	73		1		40	50 - 150
Atrazine	3333.0000	2698.9144	81		1		40	50 - 150
Benzaldehyde	3333.0000	696.1491	21		13		40	10 - 118
Caprolactam	3333.0000	2733.3150	82		7		40	41 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 66 outside limits

Spike Recovery: 1 out of 66 outside limits

COMMENTS:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
MB-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab File ID: S6B9962.D Lab Sample ID: MB-79704

Instrument ID: S6 Date Extracted: 10/27/2014

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 10/27/2014

Level: (LOW/MED) LOW Time Analyzed: 15:58

Extraction: (Type) SONC GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-79704	LCS-79704	S6B9963.D	10/27/2014
02	LCSD-79704	LCSD-79704	S6B9964.D	10/27/2014
03	(211) TR-2 (11)	N1943-02A	S6B9970.D	10/27/2014
04	(211) TR-3 (11)	N1943-03A	S6B9971.D	10/27/2014
05	(211) TR-4 (11)	N1943-04A	S6B9972.D	10/27/2014
06	(211) TR-5 (11)	N1943-05A	S6B9973.D	10/27/2014
07	(211) TR-6 (14)	N1943-06A	S6B9974.D	10/27/2014

COMMENTS:

4C - FORM IV SV

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab File ID: S6B9982.D Lab Sample ID: MB-79722

Instrument ID: S6 Date Extracted: 10/28/2014

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 10/28/2014

Level: (LOW/MED) LOW Time Analyzed: 11:49

Extraction: (Type) SONC GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-79722	LCS-79722	S6B9983.D	10/28/2014
02	LCSD-79722	LCSD-79722	S6B9984.D	10/28/2014
03	(211) TR-1 (13)	N1943-01A	S6B9985.D	10/28/2014

COMMENTS:

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPINE (DFTPP)

EPA SAMPLE NO.
DFTPP6L

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab File ID: S6B9493.D DFTPP Injection Date: 09/26/2014

Instrument ID: S6 DFTPP Injection Time: 14:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	48.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.2
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	10.0 - 80.0% of mass 198	47.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1.0% of mass 198	4.0
441	Present, but less than mass 443	10.0
442	50.0 - 100% of mass 198	76.8
443	15.0 - 24.0% of mass 442	15.3 (20.0)2

1 - Value is % mass 69 2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0256L	SSTD0256L	S6B9499.D	09/26/2014	16:51
02	SSTD0806L	SSTD0806L	S6B9500.D	09/26/2014	17:14
03	SSTD0056L	SSTD0056L	S6B9501.D	09/26/2014	17:37
04	SSTD0106L	SSTD0106L	S6B9502.D	09/26/2014	18:01
05	SSTD0406L	SSTD0406L	S6B9503.D	09/26/2014	18:24
06	SSTD0606L	SSTD0606L	S6B9504.D	09/26/2014	18:47

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPINE (DFTPP)

EPA SAMPLE NO.
DFTPP6N

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab File ID: S6B9960.D DFTPP Injection Date: 10/27/2014

Instrument ID: S6 DFTPP Injection Time: 15:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	50.4
68	Less than 2.0% of mass 69	0.3 (0.6)1
69	Mass 69 relative abundance	55.1
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	10.0 - 80.0% of mass 198	48.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1.0% of mass 198	3.4
441	Present, but less than mass 443	7.1
442	50.0 - 100% of mass 198	72.2
443	15.0 - 24.0% of mass 442	14.4 (19.9)2

1 - Value is % mass 69 2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0256N	SSTD0256N	S6B9961.D	10/27/2014	15:27
02	MB-79704	MB-79704	S6B9962.D	10/27/2014	15:58
03	LCS-79704	LCS-79704	S6B9963.D	10/27/2014	16:33
04	LCSD-79704	LCSD-79704	S6B9964.D	10/27/2014	16:53
05	(211) TR-2 (11)	N1943-02A	S6B9970.D	10/27/2014	18:55
06	(211) TR-3 (11)	N1943-03A	S6B9971.D	10/27/2014	19:15
07	(211) TR-4 (11)	N1943-04A	S6B9972.D	10/27/2014	19:35
08	(211) TR-5 (11)	N1943-05A	S6B9973.D	10/27/2014	19:55
09	(211) TR-6 (14)	N1943-06A	S6B9974.D	10/27/2014	20:15

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPINE (DFTPP)

EPA SAMPLE NO.
DFTPP6O

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Lab File ID: S6B9980.D DFTPP Injection Date: 10/28/2014

Instrument ID: S6 DFTPP Injection Time: 10:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	53.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.7
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	10.0 - 80.0% of mass 198	53.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 60.0% of mass 198	28.8
365	Greater than 1.0% of mass 198	4.9
441	Present, but less than mass 443	4.3
442	50.0 - 100% of mass 198	92.9
443	15.0 - 24.0% of mass 442	17.2 (18.5)2

1 - Value is % mass 69 2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0256O	SSTD0256O	S6B9981.D	10/28/2014	10:22
02	MB-79722	MB-79722	S6B9982.D	10/28/2014	11:49
03	LCS-79722	LCS-79722	S6B9983.D	10/28/2014	12:10
04	LCSD-79722	LCSD-79722	S6B9984.D	10/28/2014	12:30
05	(211) TR-1 (13)	N1943-01A	S6B9985.D	10/28/2014	12:50

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(SSTD020##) SSTD0256N Date Analyzed: 10/27/2014

Lab File ID (Standard): S6B9961.D Time Analyzed: 15:27

Instrument ID: S6

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	164609		3.843		589712		4.93		396600		6.375	
	UPPER LIMIT	329218		4.343		1179424		5.43		793200		6.875	
	LOWER LIMIT	82305		3.343		294856		4.43		198300		5.875	
	EPA SAMPLE NO.												
01	MB-79704	185456		3.843		676253		4.930		449488		6.369	
02	LCS-79704	191356		3.849		659651		4.930		433580		6.375	
03	LCSD-79704	194964		3.849		696554		4.936		459663		6.375	
04	(211) TR-2 (11)	197296		3.849		678322		4.930		429654		6.370	
05	(211) TR-3 (11)	185405		3.849		626635		4.930		391870		6.369	
06	(211) TR-4 (11)	187145		3.843		641905		4.930		410705		6.369	
07	(211) TR-5 (11)	191736		3.849		657300		4.930		422093		6.369	
08	(211) TR-6 (14)	182134		3.843		632911		4.930		402920		6.370	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

EPA Sample No.(SSTD020##) SSTD0256N Date Analyzed: 10/27/2014

Lab File ID (Standard): S6B9961.D Time Analyzed: 15:27

Instrument ID: S6 GC Column: Rxi-5sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	873917		7.58		1120240		9.748		998974		11.058	
	UPPER LIMIT	1747834		8.08		2240480		10.248		1997948		11.558	
	LOWER LIMIT	436959		7.08		560120		9.248		499487		10.558	
	EPA SAMPLE NO.												
01	MB-79704	993045		7.580		1130069		9.748		992976		11.064	
02	LCS-79704	895471		7.586		1019741		9.760		731464		11.076	
03	LCSD-79704	961192		7.586		1098292		9.748		873424		11.052	
04	(211) TR-2 (11)	889526		7.580		896269		9.736		766329		11.041	
05	(211) TR-3 (11)	815781		7.580		844749		9.736		725986		11.041	
06	(211) TR-4 (11)	859230		7.580		931592		9.736		786649		11.040	
07	(211) TR-5 (11)	865528		7.580		906054		9.736		752871		11.040	
08	(211) TR-6 (14)	843707		7.580		892609		9.742		765290		11.047	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(SSTD020##) SSTD0256O Date Analyzed: 10/28/2014

Lab File ID (Standard): S6B9981.D Time Analyzed: 10:22

Instrument ID: S6

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	156083		3.843		572090		4.93		411885		6.375	
	UPPER LIMIT	312166		4.343		1144180		5.43		823770		6.875	
	LOWER LIMIT	78042		3.343		286045		4.43		205943		5.875	
	EPA SAMPLE NO.												
01	MB-79722	178989		3.843		615789		4.930		397834		6.370	
02	LCS-79722	183583		3.849		652138		4.936		437758		6.375	
03	LCSD-79722	188480		3.849		644515		4.936		414013		6.375	
04	(211) TR-1 (13)	175794		3.849		598875		4.930		360200		6.369	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

EPA Sample No.(SSTD020##) SSTD0256O Date Analyzed: 10/28/2014

Lab File ID (Standard): S6B9981.D Time Analyzed: 10:22

Instrument ID: S6 GC Column: Rxi-5sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	871346		7.586		1076998		9.76		940835		11.082	
	UPPER LIMIT	1742692		8.086		2153996		10.26		1881670		11.582	
	LOWER LIMIT	435673		7.086		538499		9.26		470418		10.582	
	EPA SAMPLE NO.												
01	MB-79722	850018		7.580		893825		9.760		741698		11.099	
02	LCS-79722	947155		7.586		1108090		9.754		883991		11.064	
03	LCSD-79722	838625		7.586		901395		9.748		728973		11.058	
04	(211) TR-1 (13)	771489		7.580		795559		9.736		689741		11.046	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

EPA SAMPLE NO.
(211) TR-1 (13)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-01A

Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B9985.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.1 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	Bis(2-chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2´-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
111-91-1	Bis(2-chloroethoxy)methane	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	700	U
100-02-7	4-Nitrophenol	700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-1 (13)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-01A

Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B9985.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.1 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	700	U
534-52-1	4,6-Dinitro-2-methylphenol	700	U
86-30-6	N-Nitrosodiphenylamine	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	290	J
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3´-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	Bis(2-ethylhexyl)phthalate	93	J
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U
92-52-4	1,1´-Biphenyl	340	U
95-94-3	1,2,4,5-Tetrachlorobenzene	340	U
98-86-2	Acetophenone	340	U
1912-24-9	Atrazine	340	U
100-52-7	Benzaldehyde	340	U
105-60-2	Caprolactam	340	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-1 (13)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-01A

Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B9985.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.1 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	141-79-7	3-Penten-2-one, 4-methyl-	1.810	370	AJN
02		Unknown (2.30945)	2.309	860	J
03		Unknown (3.32005)	3.320	280	J
04	301-02-0	9-Octadecenamide, (Z)-	9.331	610	NJ
05		Unknown (10.48237)	10.482	600	J

[2]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d
Report Date: 28-Oct-2014 15:21

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141028.B\S6B9985.d
Lab Smp Id: N1943-01A Client Smp ID: (211) TR-1 (13)
Inj Date : 28-OCT-2014 12:50
Operator : CLM   SRC: LIMS Inst ID: S6.i
Smp Info : N1943-01A,,79722
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141028.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 15:11 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM4_SVOA.sub
Target Version: 4.14
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.400	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	2.726	2.720	(0.708)	213984	40.9041	2600
$	5 Phenol-d5	99	3.654	3.654	(0.950)	267010	37.1141	2400
*	12 1,4-Dichlorobenzene-d4	152	3.848	3.842	(1.000)	175794	40.0000	
$	22 Nitrobenzene-d5	82	4.342	4.342	(0.881)	321415	47.8826	3100
*	31 Naphthalene-d8	136	4.929	4.929	(1.000)	598875	40.0000	
$	41 2-Fluorobiphenyl	172	5.834	5.834	(0.916)	590827	50.6554	3300(R)
*	48 Acenaphthene-d10	164	6.369	6.375	(1.000)	360200	40.0000	
$	60 2,4,6-Tribromophenol	330	7.027	7.027	(0.927)	86799	49.7029	3200
*	64 Phenanthrene-d10	188	7.579	7.585	(1.000)	771489	40.0000	
	68 Di-n-butylphthalate	149	8.091	8.096	(1.067)	88852	4.12687	270(a)
$	72 Terphenyl-d14	244	8.895	8.895	(0.914)	730421	51.2691	3300
*	76 Chrysene-d12	240	9.736	9.759	(1.000)	795559	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	9.789	9.806	(1.005)	18496	1.34035	87(a)
*	83 Perylene-d12	264	11.046	11.081	(1.000)	689741	40.0000	

QC Flag Legend

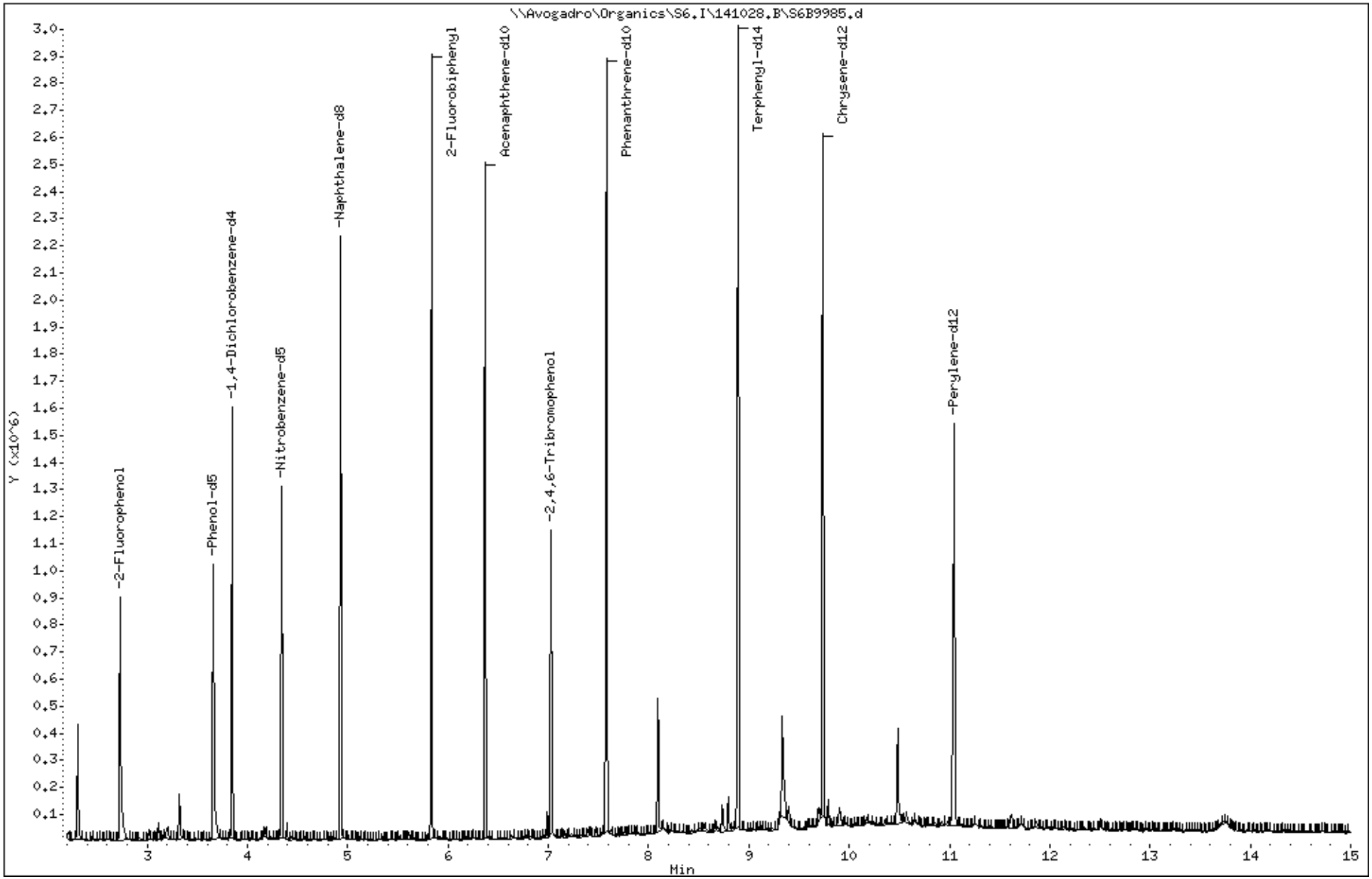
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d
Report Date: 28-Oct-2014 15:21

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d
Date : 28-OCT-2014 12:50
Client ID: (211) TR-1 (13)
Instrument: S6.i
Sample Info: N1943-01A,,79722
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d

Date : 28-OCT-2014 12:50

Client ID: (211) TR-1 (13)

Instrument: S6.i

Sample Info: N1943-01A,,79722

Volume Injected (uL): 1.0

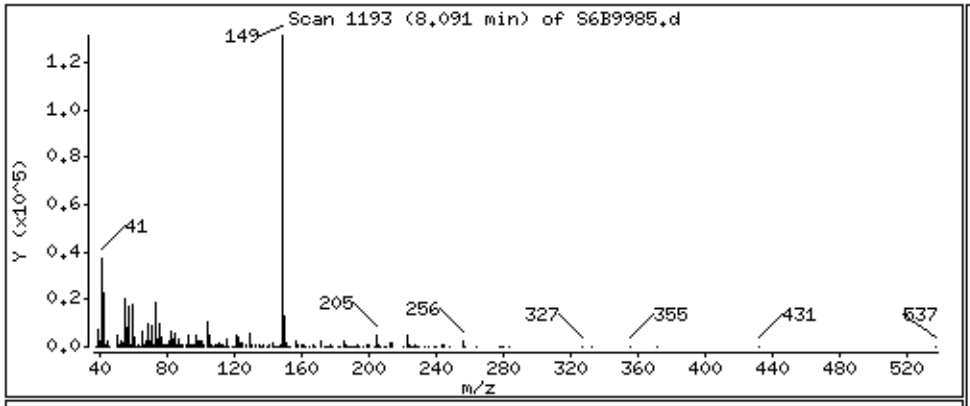
Operator: CLM SRC: LIMS

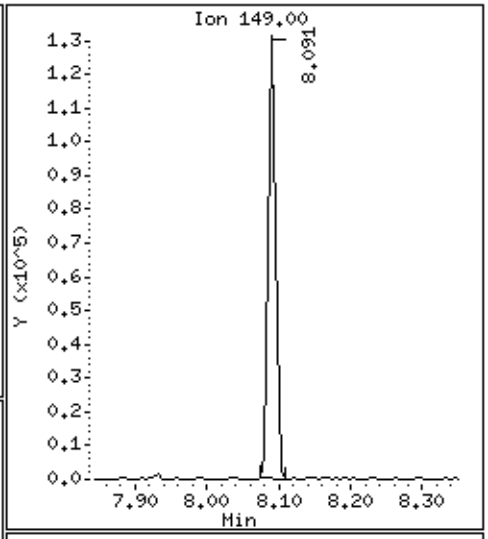
Column phase: Rxi-5Sil MS

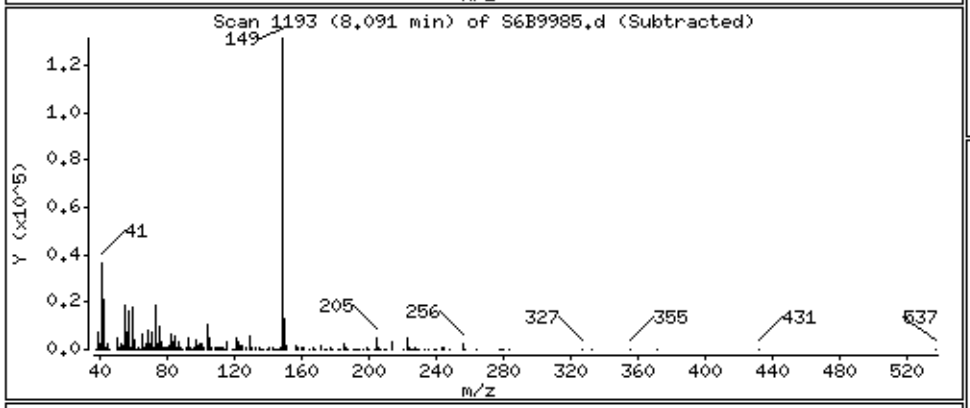
Column diameter: 0.25

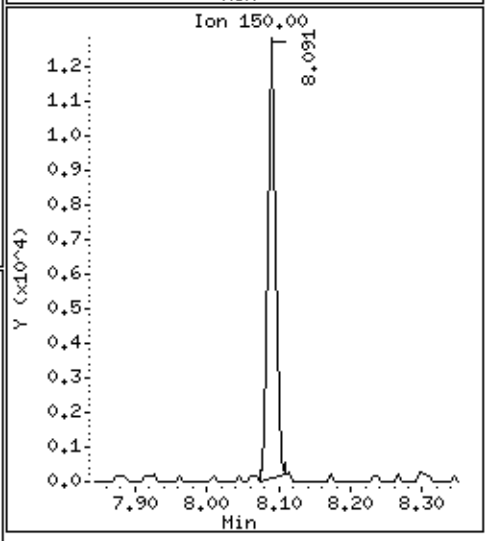
68 Di-n-butylphthalate

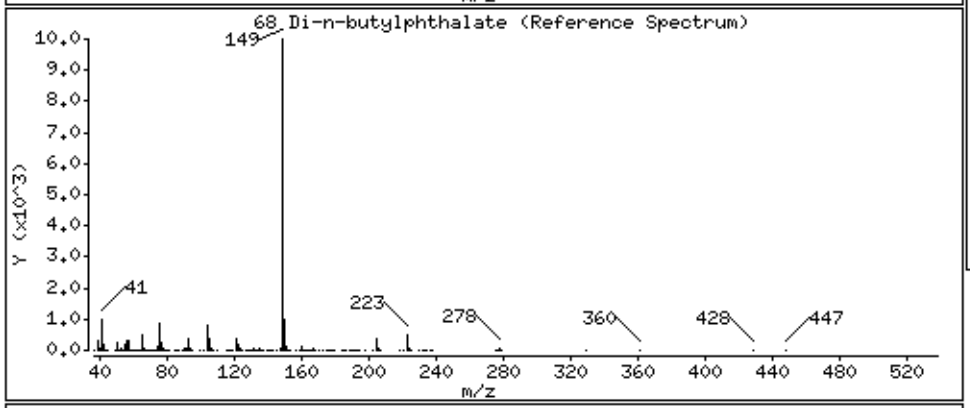
Concentration: 270 ug/Kg

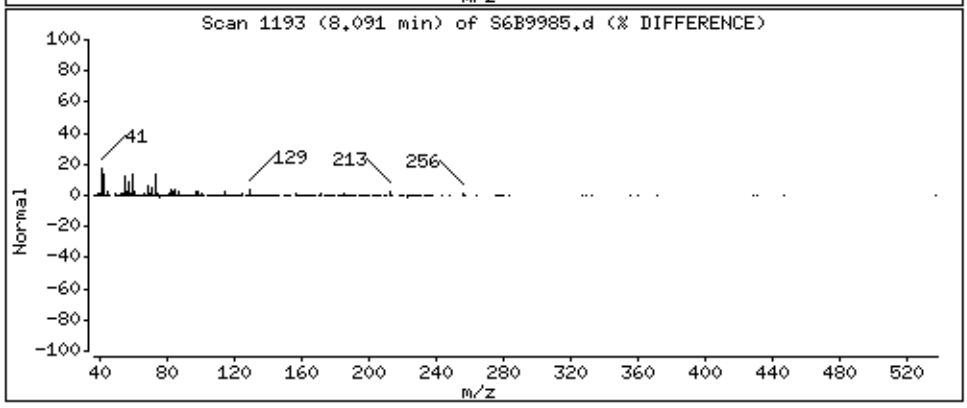












Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d

Date : 28-OCT-2014 12:50

Client ID: (211) TR-1 (13)

Instrument: S6.i

Sample Info: N1943-01A,,79722

Volume Injected (uL): 1.0

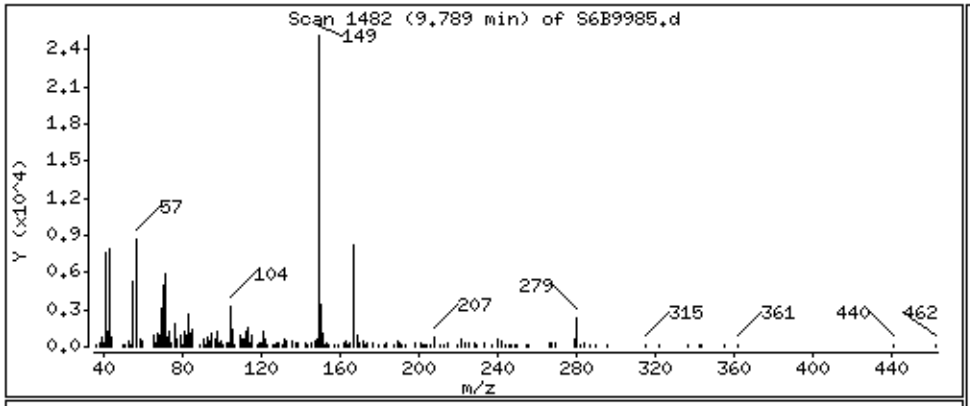
Operator: CLM SRC: LIMS

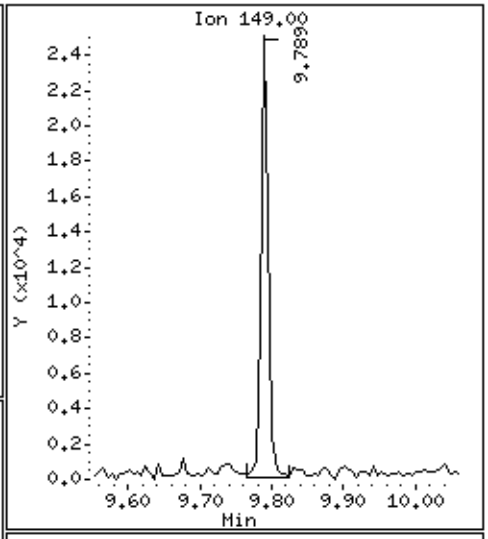
Column phase: Rxi-5Sil MS

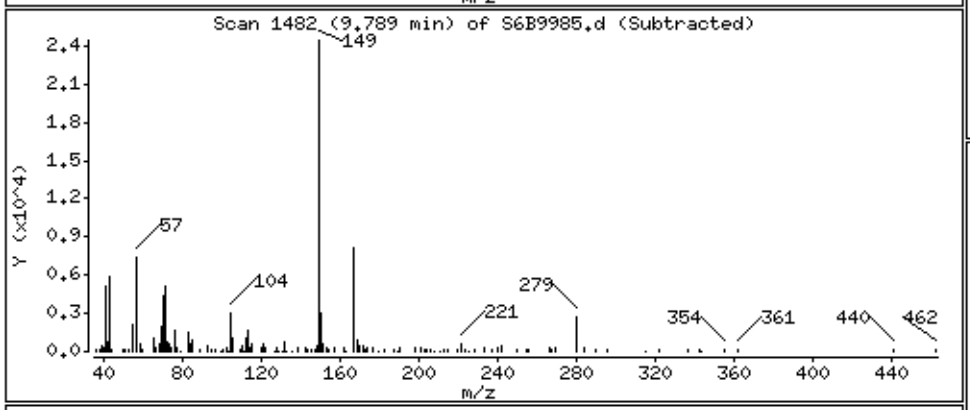
Column diameter: 0.25

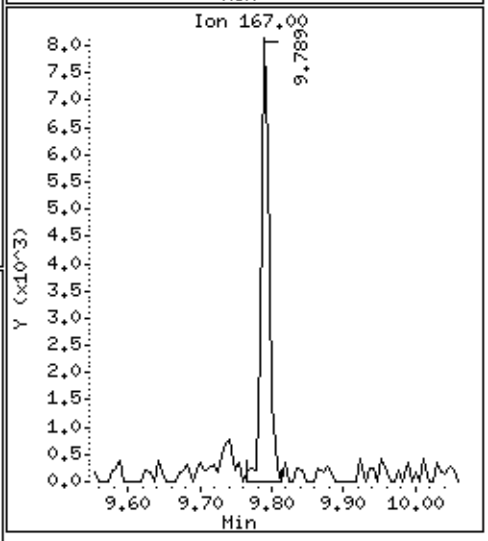
78 bis(2-Ethylhexyl)phthalate

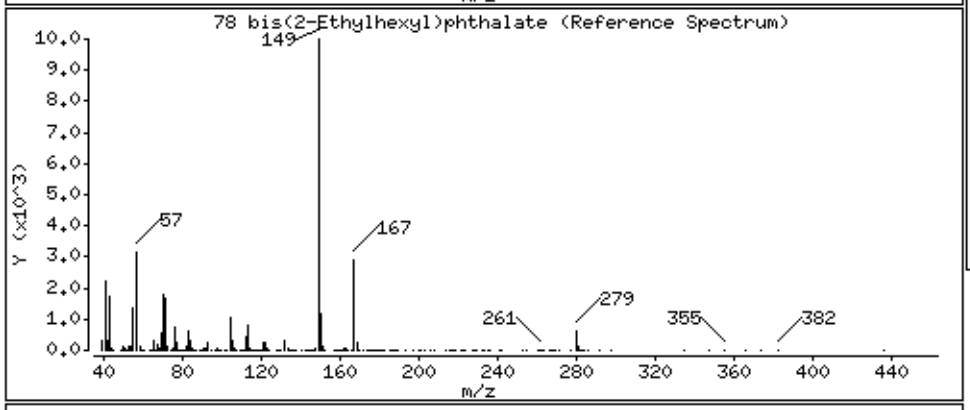
Concentration: 87 ug/Kg

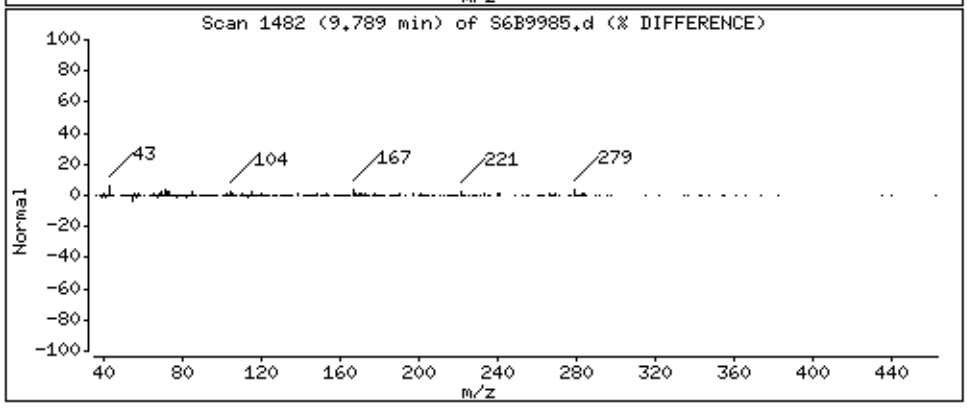












Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d

Date : 28-OCT-2014 12:50

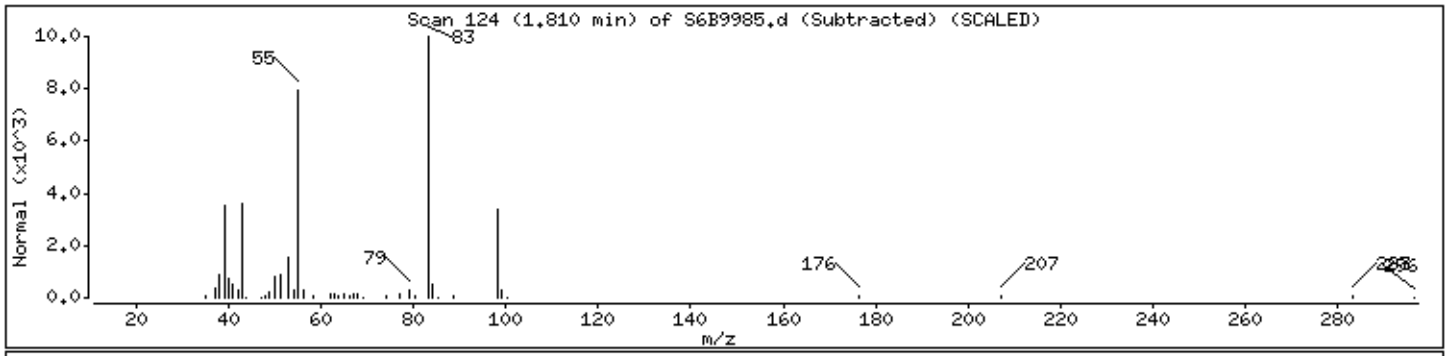
Client ID: (211) TR-1 (13) Instrument: S6.i

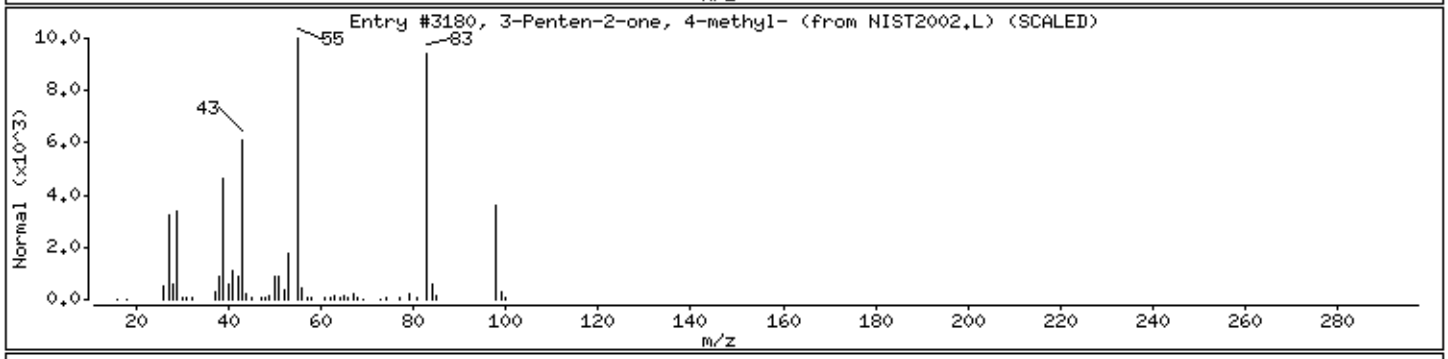
Sample Info: N1943-01A,,79722

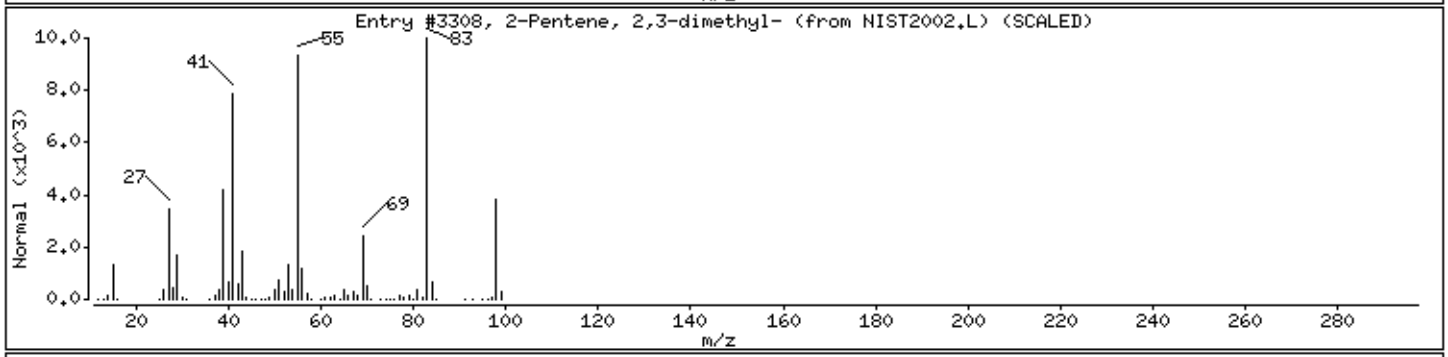
Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Penten-2-one, 4-methyl-	141-79-7	NIST2002.L	3180	94	C6H10O	98
2-Pentene, 2,3-dimethyl-	10574-37-5	NIST2002.L	3308	86	C7H14	98







Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d

Date : 28-OCT-2014 12:50

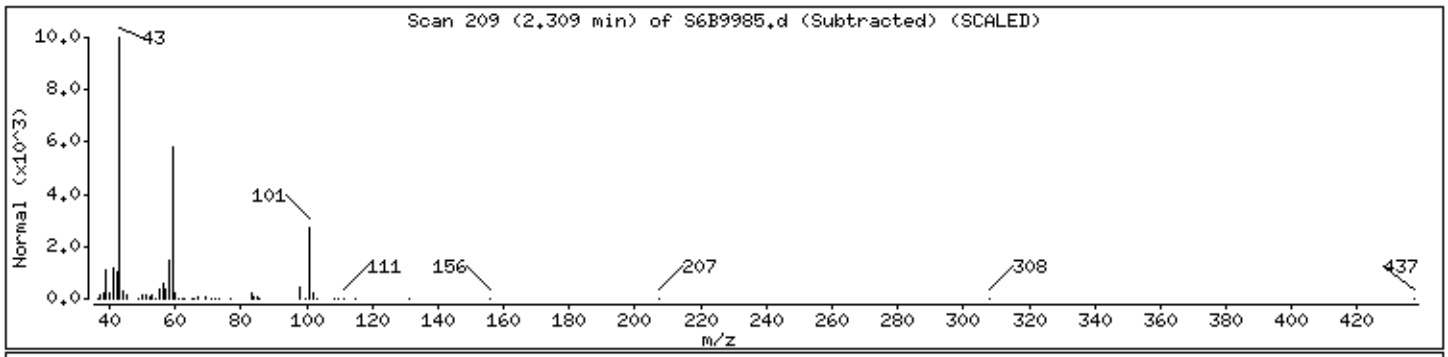
Client ID: (211) TR-1 (13) Instrument: S6.i

Sample Info: N1943-01A,,79722

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d

Date : 28-OCT-2014 12:50

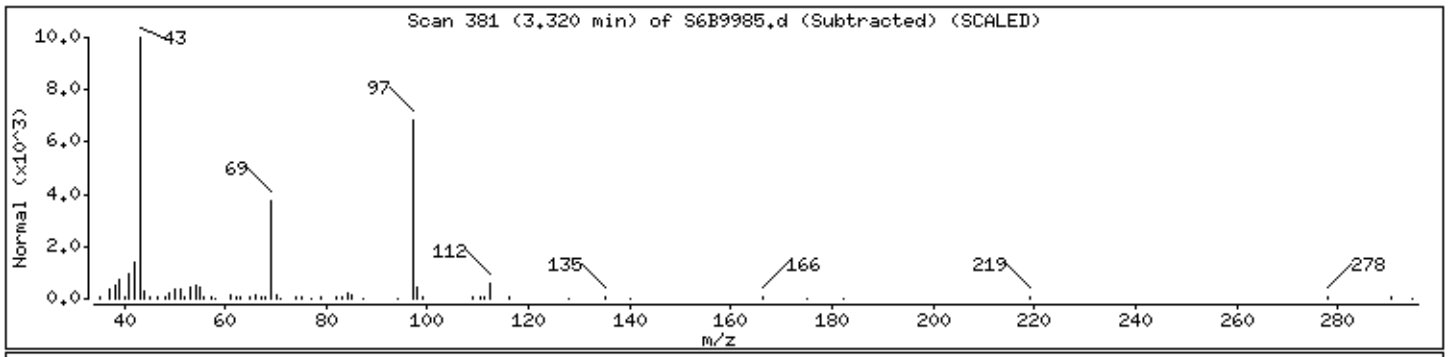
Client ID: (211) TR-1 (13) Instrument: S6.i

Sample Info: N1943-01A,,79722

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d

Date : 28-OCT-2014 12:50

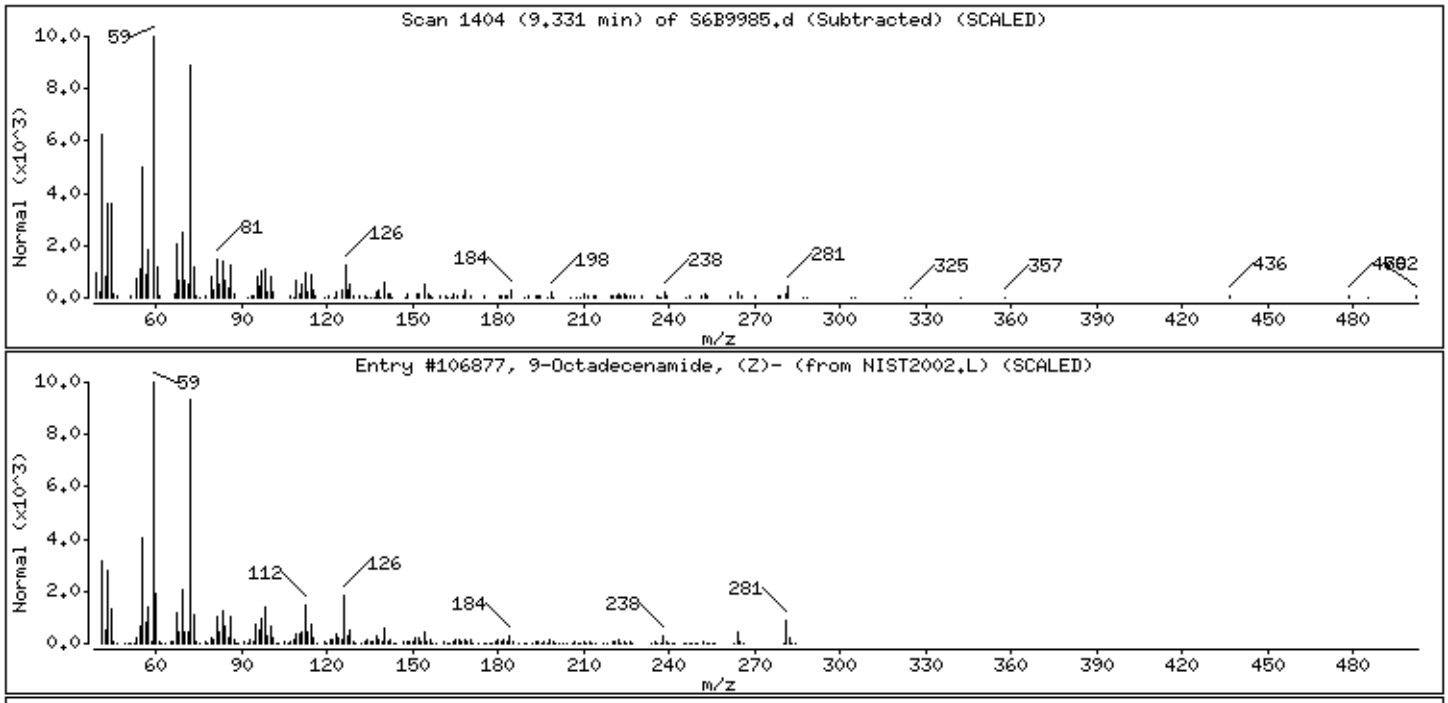
Client ID: (211) TR-1 (13) Instrument: S6.i

Sample Info: N1943-01A,,79722

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST2002.L	106877	95	C18H35NO	281



Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9985.d

Date : 28-OCT-2014 12:50

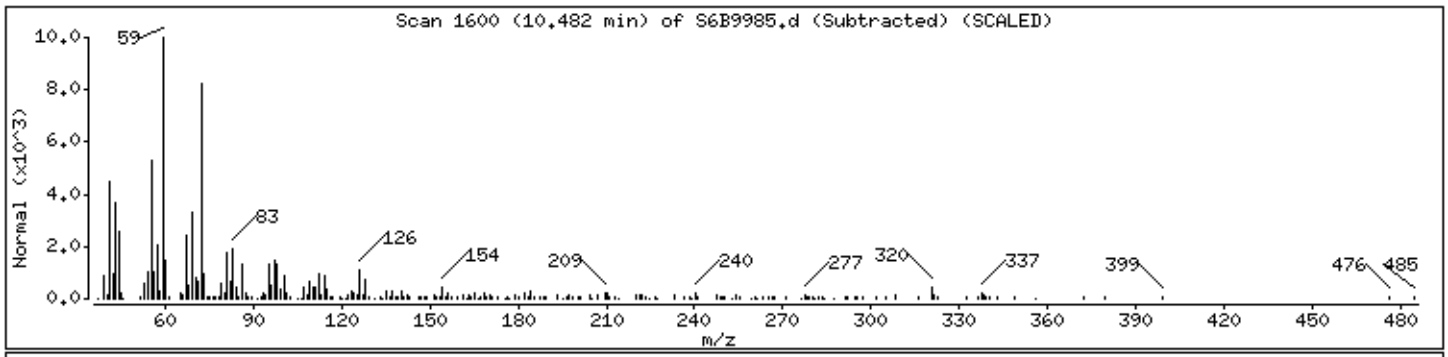
Client ID: (211) TR-1 (13) Instrument: S6.i

Sample Info: N1943-01A,,79722

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-2 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-02A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B9970.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.2 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	720	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	720	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	720	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	720	U
100-02-7	4-Nitrophenol	720	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-2 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-02A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B9970.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.2 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	720	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	720	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	340	J
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U
92-52-4	1,1´-Biphenyl	350	U
95-94-3	1,2,4,5-Tetrachlorobenzene	350	U
98-86-2	Acetophenone	350	U
1912-24-9	Atrazine	350	U
100-52-7	Benzaldehyde	350	U
105-60-2	Caprolactam	350	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-2 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-02A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B9970.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.2 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	141-79-7	3-Penten-2-one, 4-methyl-	1.816	330	AJN
02		Unknown (2.30948)	2.309	520	J
03		Unknown (3.32008)	3.320	300	J
04	301-02-0	9-Octadecenamide, (Z)-	9.337	1500	NJ
05	112-84-5	13-Docosenamide, (Z)-	10.477	1200	NJ

[2]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9970.d
Report Date: 28-Oct-2014 12:12

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9970.d
Lab Smp Id: N1943-02A Client Smp ID: (211) TR-2 (11)
Inj Date : 27-OCT-2014 18:55
Operator : CLM   SRC: LIMS Inst ID: S6.i
Smp Info : N1943-02A,,79704
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141027A.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM4_SVOA.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.200	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

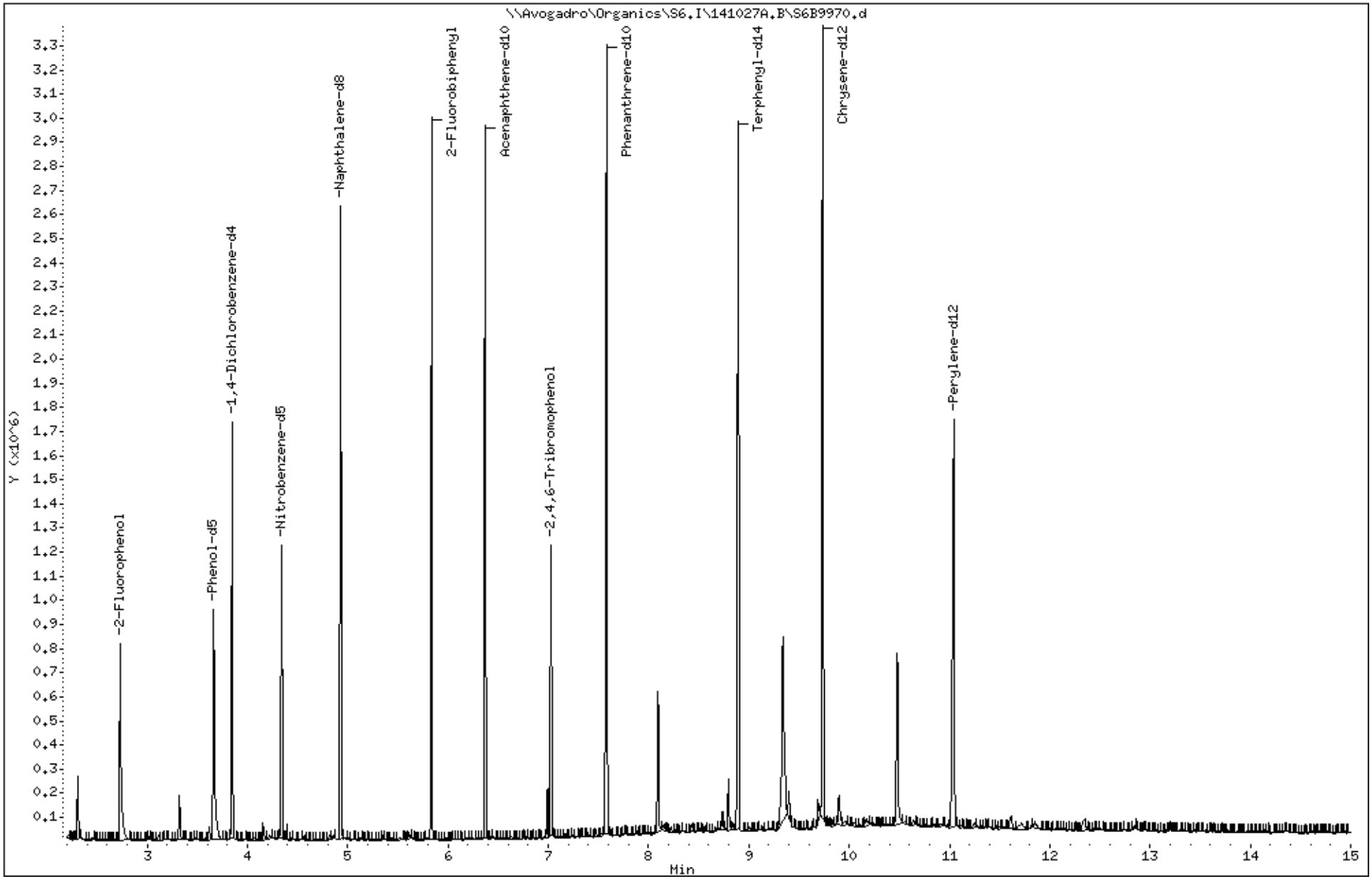
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	2.726	2.720	(0.708)	210408	35.8372	2400
$	5 Phenol-d5	99	3.660	3.654	(0.951)	259929	32.1923	2100
*	12 1,4-Dichlorobenzene-d4	152	3.848	3.842	(1.000)	197296	40.0000	
$	22 Nitrobenzene-d5	82	4.342	4.336	(0.881)	302955	39.8465	2600
*	31 Naphthalene-d8	136	4.929	4.929	(1.000)	678322	40.0000	
$	41 2-Fluorobiphenyl	172	5.834	5.834	(0.916)	583274	41.9241	2800
*	48 Acenaphthene-d10	164	6.369	6.375	(1.000)	429654	40.0000	
$	60 2,4,6-Tribromophenol	330	7.027	7.027	(0.927)	89772	44.5840	2900
*	64 Phenanthrene-d10	188	7.579	7.579	(1.000)	889526	40.0000	
	68 Di-n-butylphthalate	149	8.091	8.090	(1.067)	118764	4.78420	310(a)
$	72 Terphenyl-d14	244	8.896	8.889	(0.914)	736936	45.9141	3000
*	76 Chrysene-d12	240	9.736	9.747	(1.000)	896269	40.0000	
*	83 Perylene-d12	264	11.040	11.058	(1.000)	766329	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9970.d
Date : 27-OCT-2014 18:55
Client ID: (211) TR-2 (11)
Sample Info: N1943-02A,,79704
Volume Injected (uL): 1.0
Column phase: Rxi-5Sil MS

Instrument: S6.i
Operator: CLM SRC: LIMS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9970.d

Date : 27-OCT-2014 18:55

Client ID: (211) TR-2 (11)

Instrument: S6.i

Sample Info: N1943-02A,,79704

Volume Injected (uL): 1.0

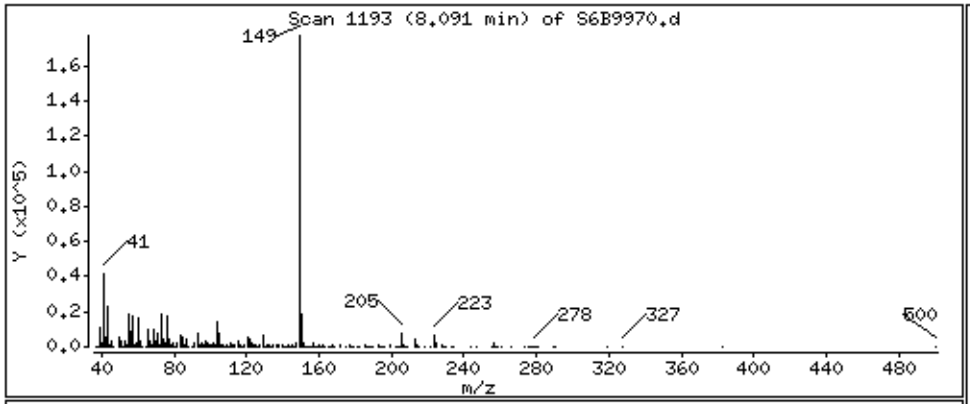
Operator: CLM SRC: LIMS

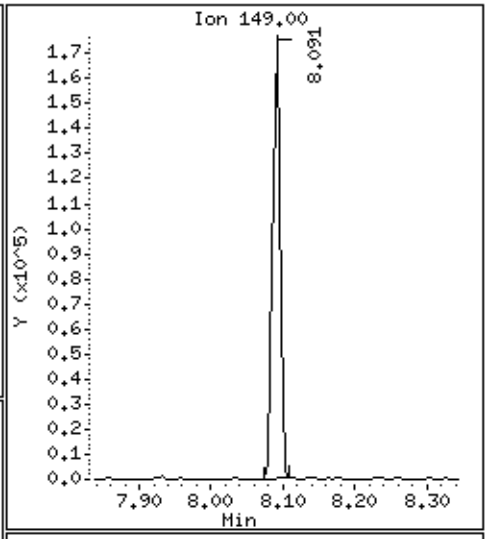
Column phase: Rxi-5Sil MS

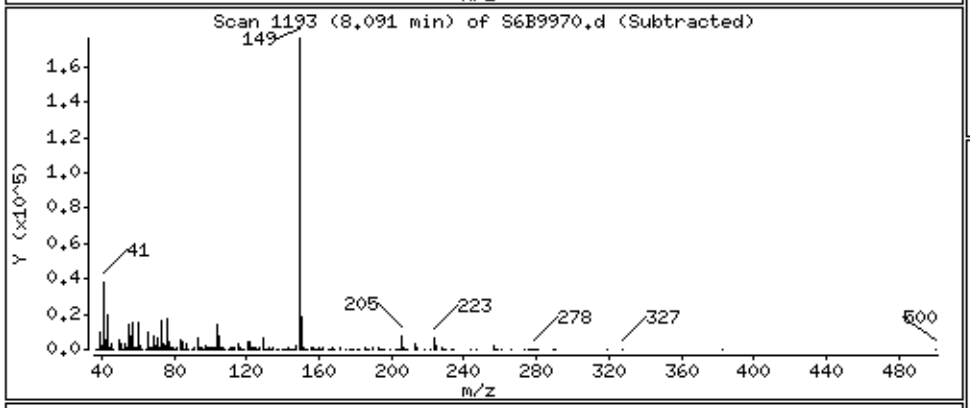
Column diameter: 0.25

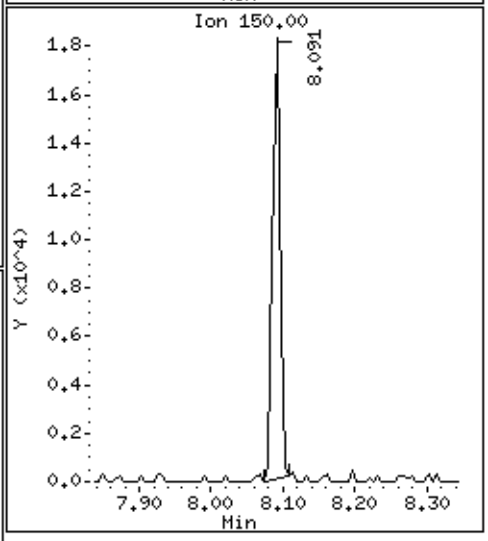
68 Di-n-butylphthalate

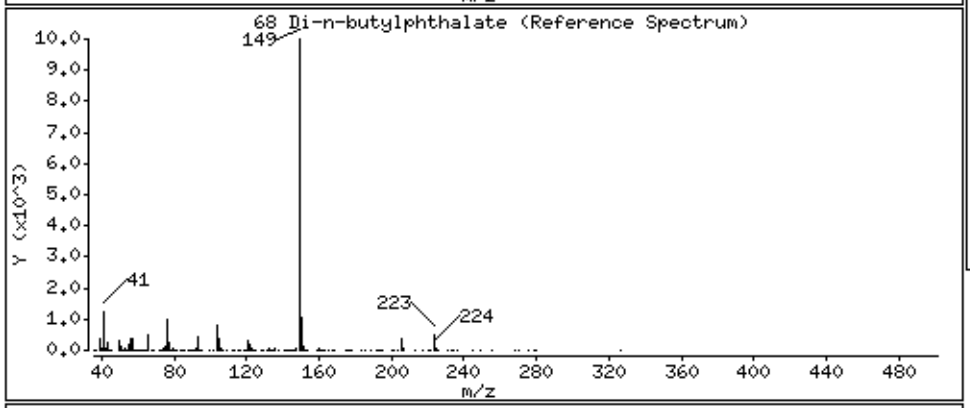
Concentration: 310 ug/Kg

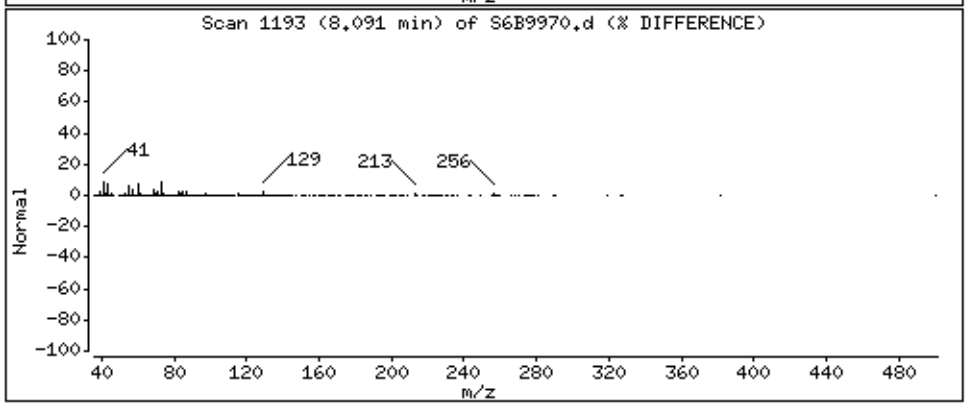












Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9970.d

Date : 27-OCT-2014 18:55

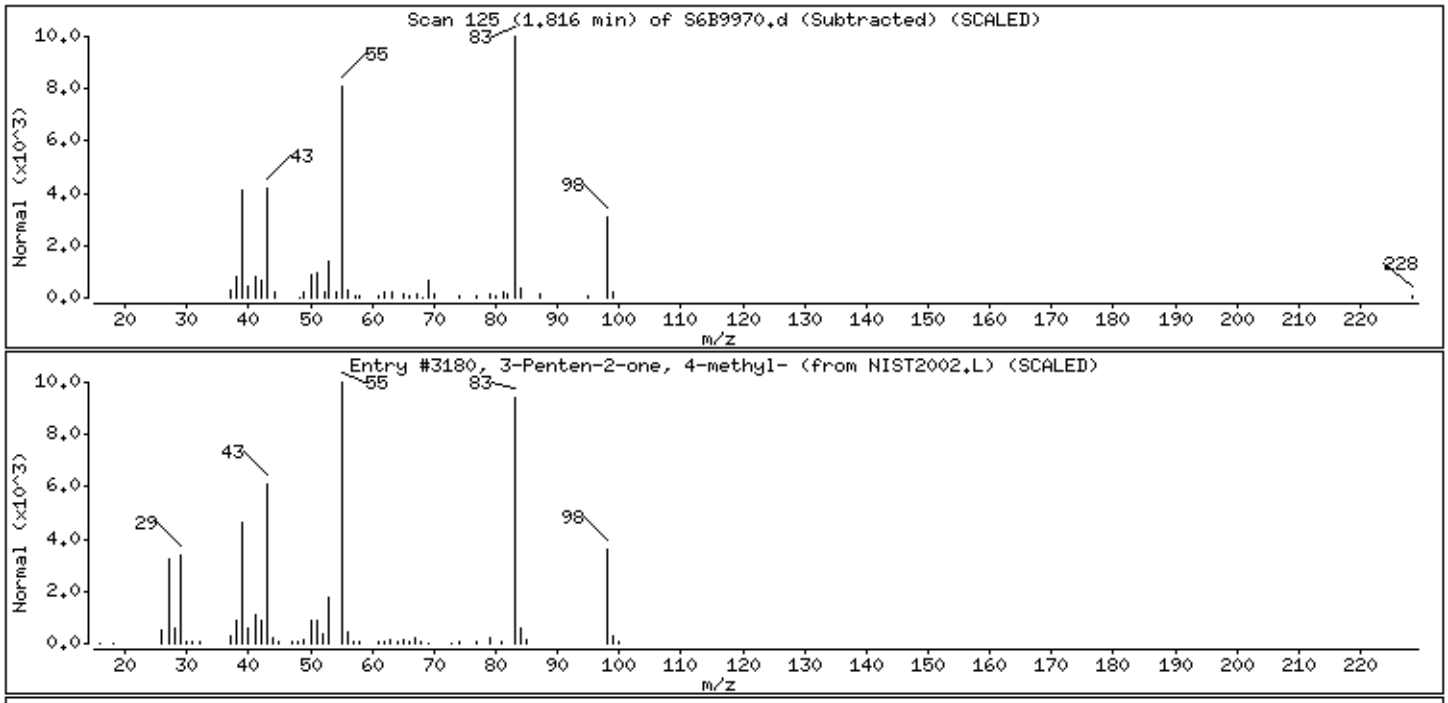
Client ID: (211) TR-2 (11) Instrument: S6.i

Sample Info: N1943-02A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Penten-2-one, 4-methyl-	141-79-7	NIST2002.L	3180	91	C6H10O	98



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9970.d

Date : 27-OCT-2014 18:55

Client ID: (211) TR-2 (11)

Instrument: S6.i

Sample Info: N1943-02A,,79704

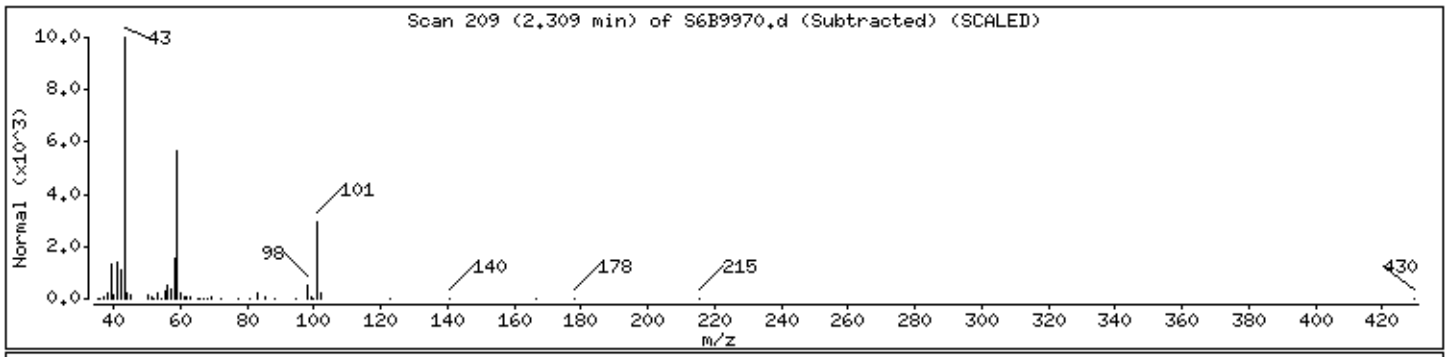
Volume Injected (uL): 1.0

Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9970.d

Date : 27-OCT-2014 18:55

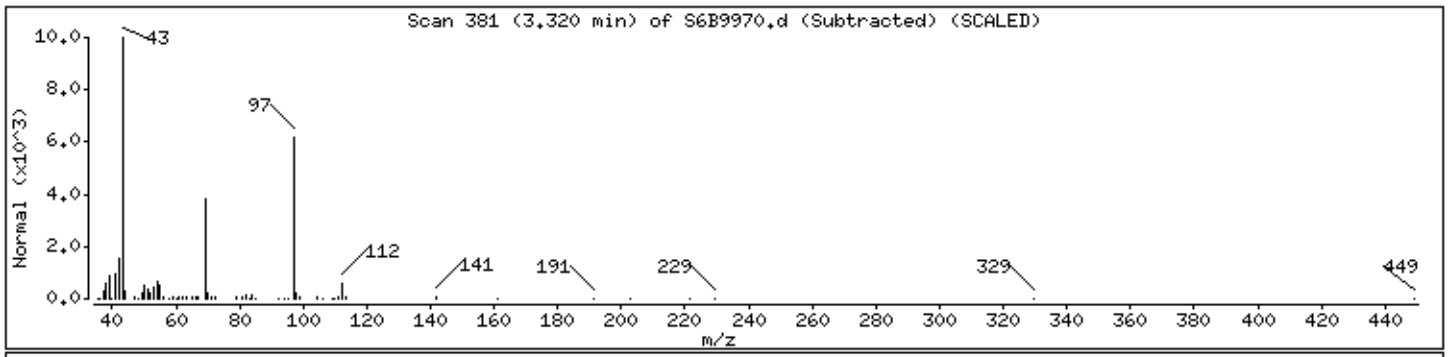
Client ID: (211) TR-2 (11) Instrument: S6.i

Sample Info: N1943-02A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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Date : 27-OCT-2014 18:55

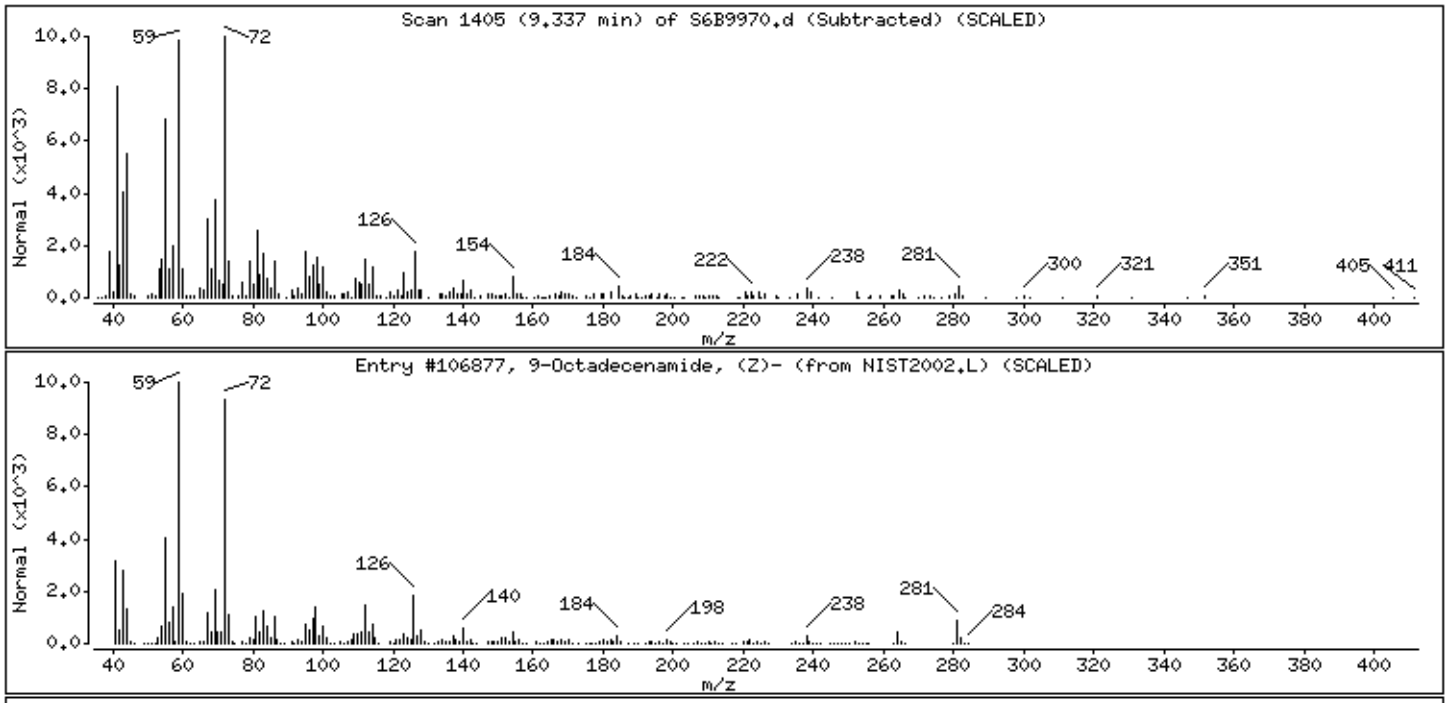
Client ID: (211) TR-2 (11) Instrument: S6.i

Sample Info: N1943-02A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST2002.L	106877	89	C18H35NO	281



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9970.d

Date : 27-OCT-2014 18:55

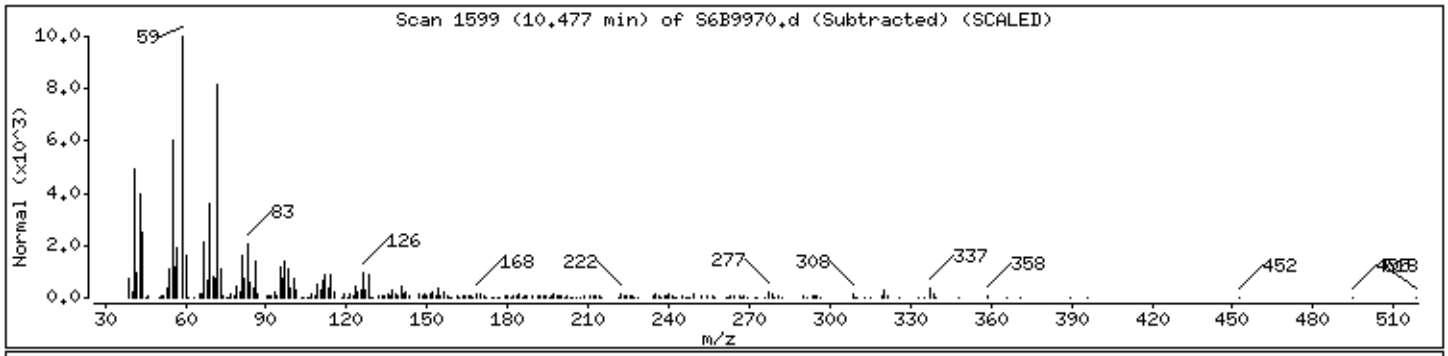
Client ID: (211) TR-2 (11) Instrument: S6.i

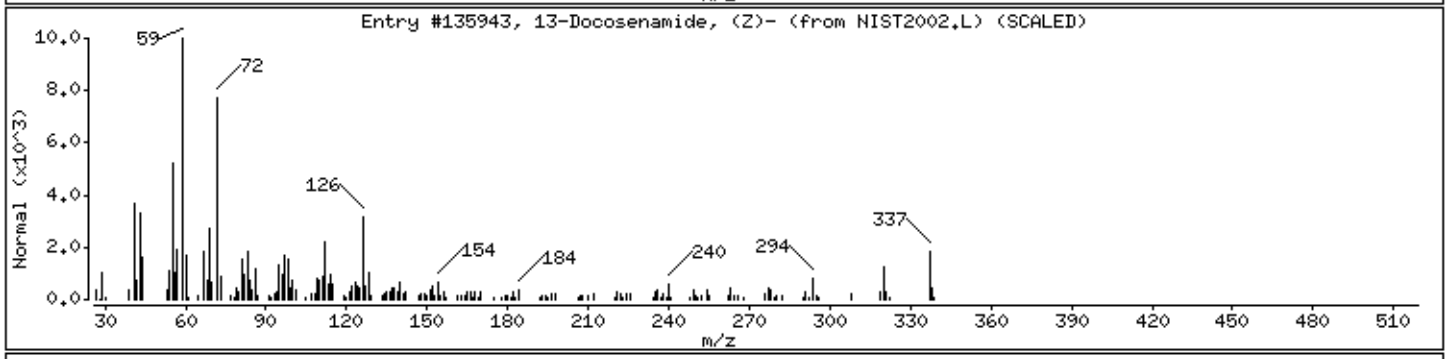
Sample Info: N1943-02A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
13-Docosenamide, (Z)-	112-84-5	NIST2002.L	135943	93	C22H43NO	337





EPA SAMPLE NO.
(211) TR-3 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-03A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B9971.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.6 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-3 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-03A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B9971.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.6 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	710	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	420	
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U
92-52-4	1,1´-Biphenyl	350	U
95-94-3	1,2,4,5-Tetrachlorobenzene	350	U
98-86-2	Acetophenone	350	U
1912-24-9	Atrazine	350	U
100-52-7	Benzaldehyde	350	U
105-60-2	Caprolactam	350	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-3 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-03A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B9971.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.6 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (2.30947)	2.309	550	J
02		Unknown (3.32007)	3.320	320	J
03	301-02-0	9-Octadecenamide, (Z)-	9.331	970	NJ
04	112-84-5	13-Docosenamide, (Z)-	10.477	760	NJ

[2]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9971.d
Report Date: 28-Oct-2014 12:12

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9971.d
Lab Smp Id: N1943-03A Client Smp ID: (211) TR-3 (11)
Inj Date : 27-OCT-2014 19:15
Operator : CLM   SRC: LIMS Inst ID: S6.i
Smp Info : N1943-03A,,79704
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141027A.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM4_SVOA.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

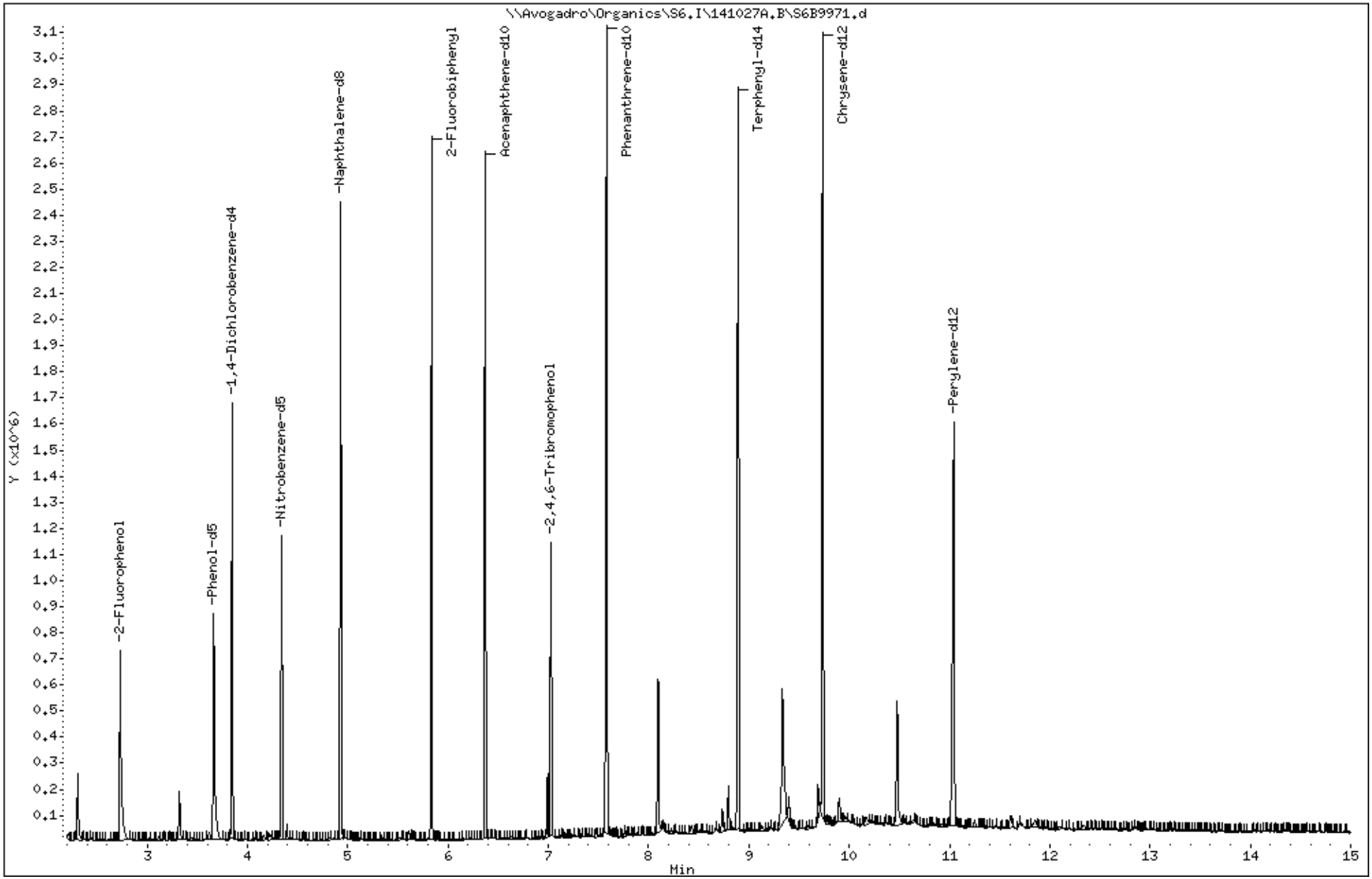
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.200	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	2.732	2.720	(0.710)	208432	37.7775	2500
$	5 Phenol-d5	99	3.660	3.654	(0.951)	248630	32.7678	2200
*	12 1,4-Dichlorobenzene-d4	152	3.848	3.842	(1.000)	185405	40.0000	
$	22 Nitrobenzene-d5	82	4.342	4.336	(0.881)	292002	41.5737	2700
*	31 Naphthalene-d8	136	4.929	4.929	(1.000)	626635	40.0000	
$	41 2-Fluorobiphenyl	172	5.834	5.834	(0.916)	540352	42.5838	2800
*	48 Acenaphthene-d10	164	6.369	6.375	(1.000)	391870	40.0000	
$	60 2,4,6-Tribromophenol	330	7.027	7.027	(0.927)	80550	43.6203	2900
*	64 Phenanthrene-d10	188	7.579	7.579	(1.000)	815781	40.0000	
	68 Di-n-butylphthalate	149	8.091	8.090	(1.067)	134748	5.91877	390(a)
$	72 Terphenyl-d14	244	8.895	8.889	(0.914)	696363	46.0323	3000
*	76 Chrysene-d12	240	9.736	9.747	(1.000)	844749	40.0000	
*	83 Perylene-d12	264	11.040	11.058	(1.000)	725986	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9971.d
Date : 27-OCT-2014 19:15
Client ID: (211) TR-3 (11)
Instrument: S6.i
Sample Info: N1943-03A,,79704
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9971.d

Date : 27-OCT-2014 19:15

Client ID: (211) TR-3 (11)

Instrument: S6.i

Sample Info: N1943-03A,,79704

Volume Injected (uL): 1.0

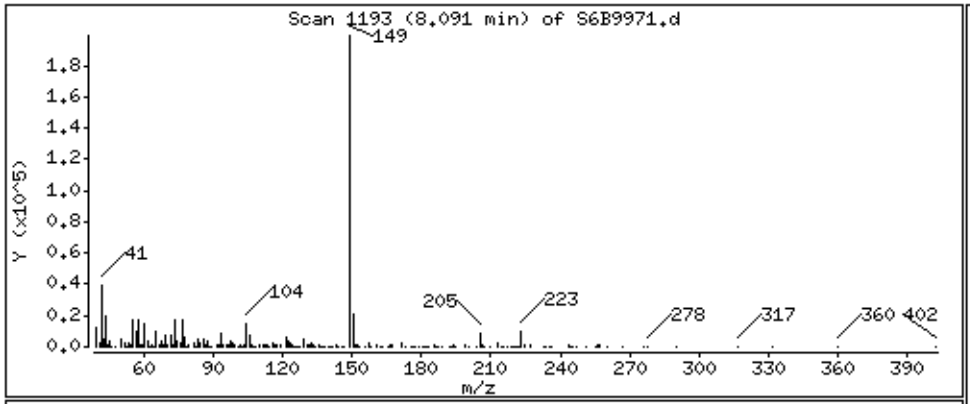
Operator: CLM SRC: LIMS

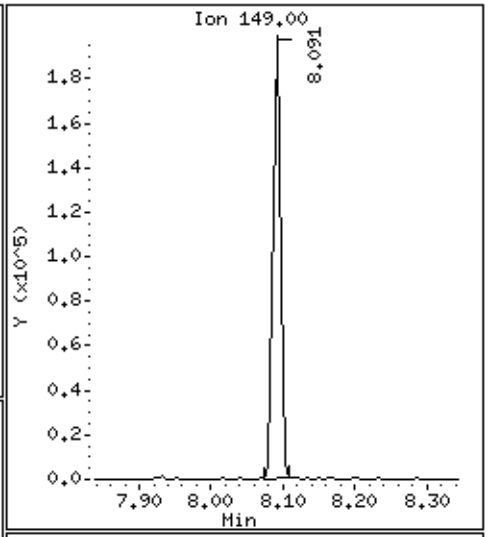
Column phase: Rxi-5Sil MS

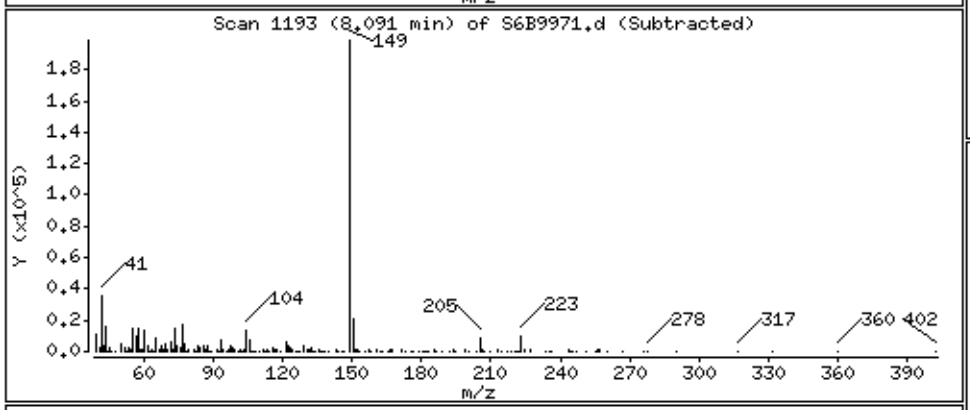
Column diameter: 0.25

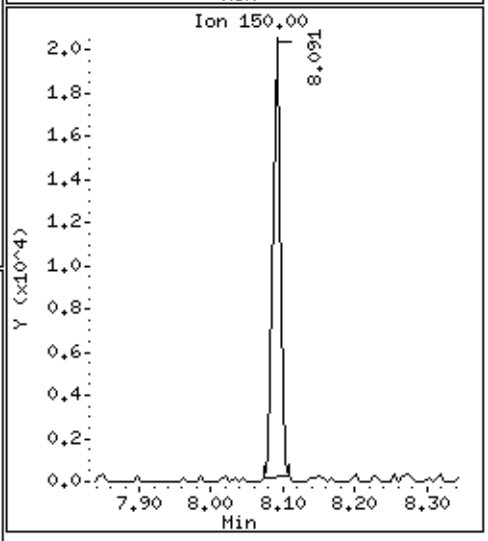
68 Di-n-butylphthalate

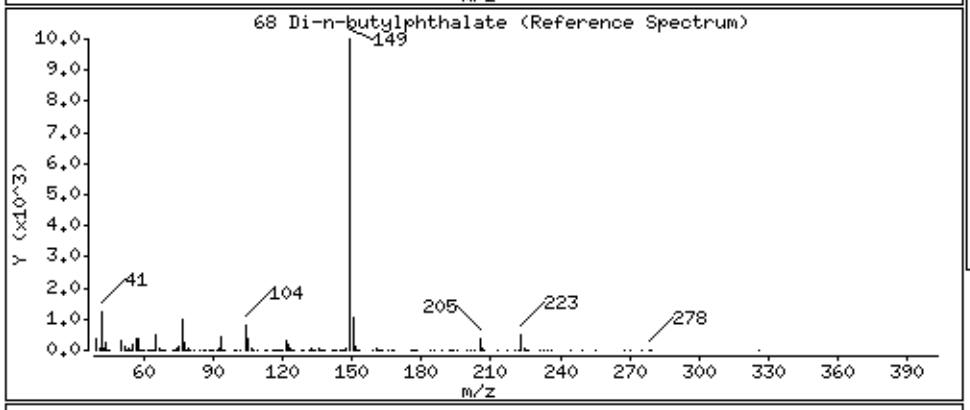
Concentration: 390 ug/Kg

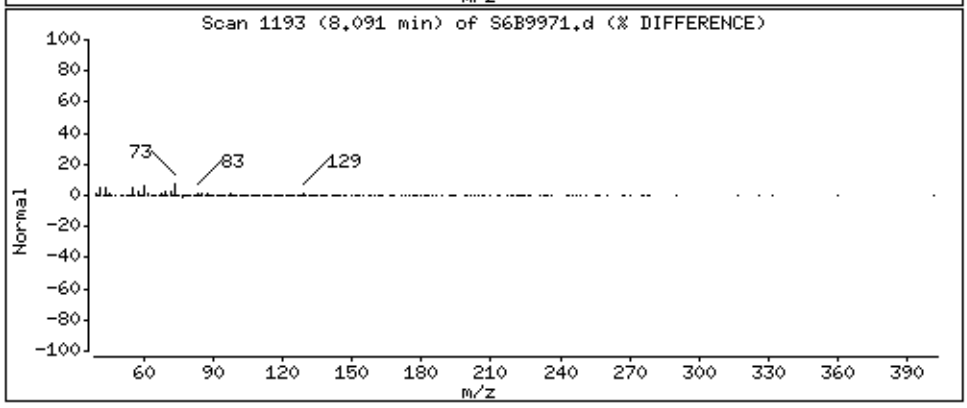












Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9971.d

Date : 27-OCT-2014 19:15

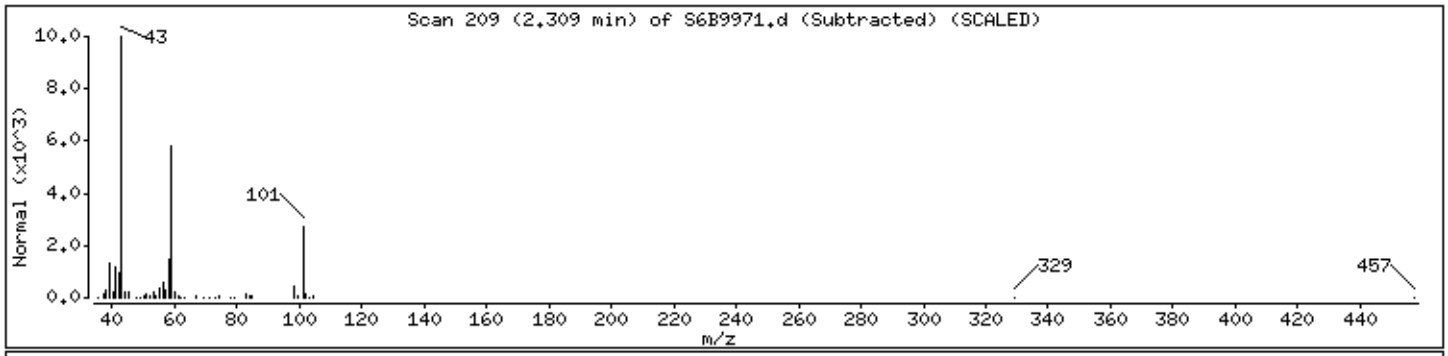
Client ID: (211) TR-3 (11) Instrument: S6.i

Sample Info: N1943-03A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9971.d

Date : 27-OCT-2014 19:15

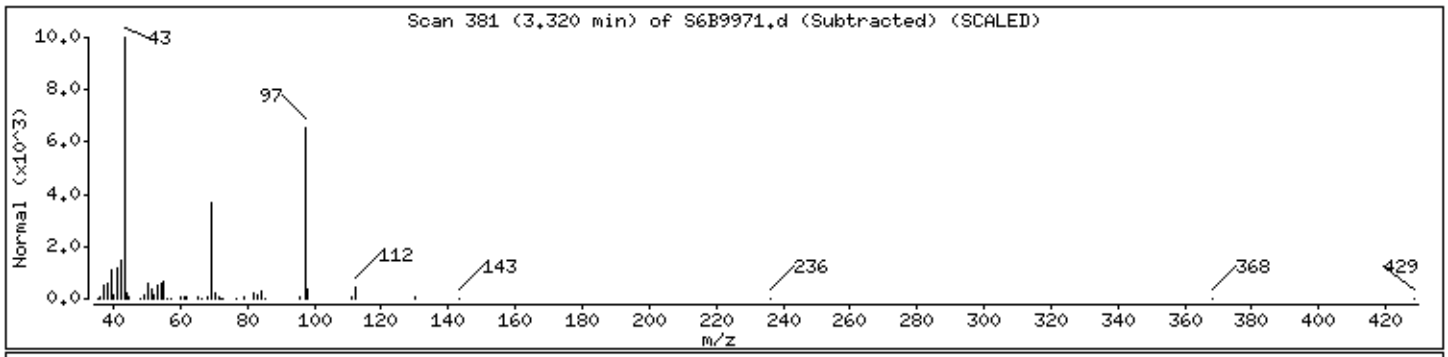
Client ID: (211) TR-3 (11) Instrument: S6.i

Sample Info: N1943-03A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9971.d

Date : 27-OCT-2014 19:15

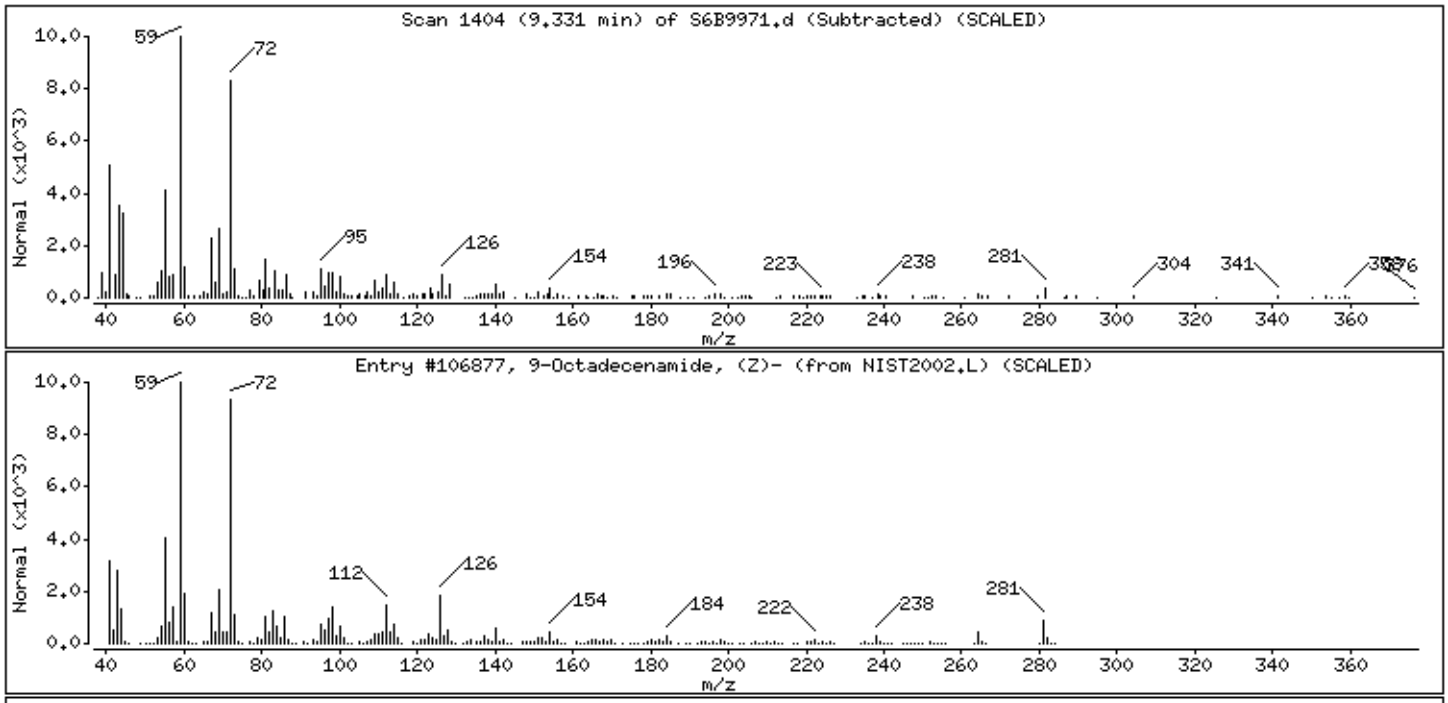
Client ID: (211) TR-3 (11) Instrument: S6.i

Sample Info: N1943-03A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST2002.L	106877	90	C18H35NO	281



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9971.d

Date : 27-OCT-2014 19:15

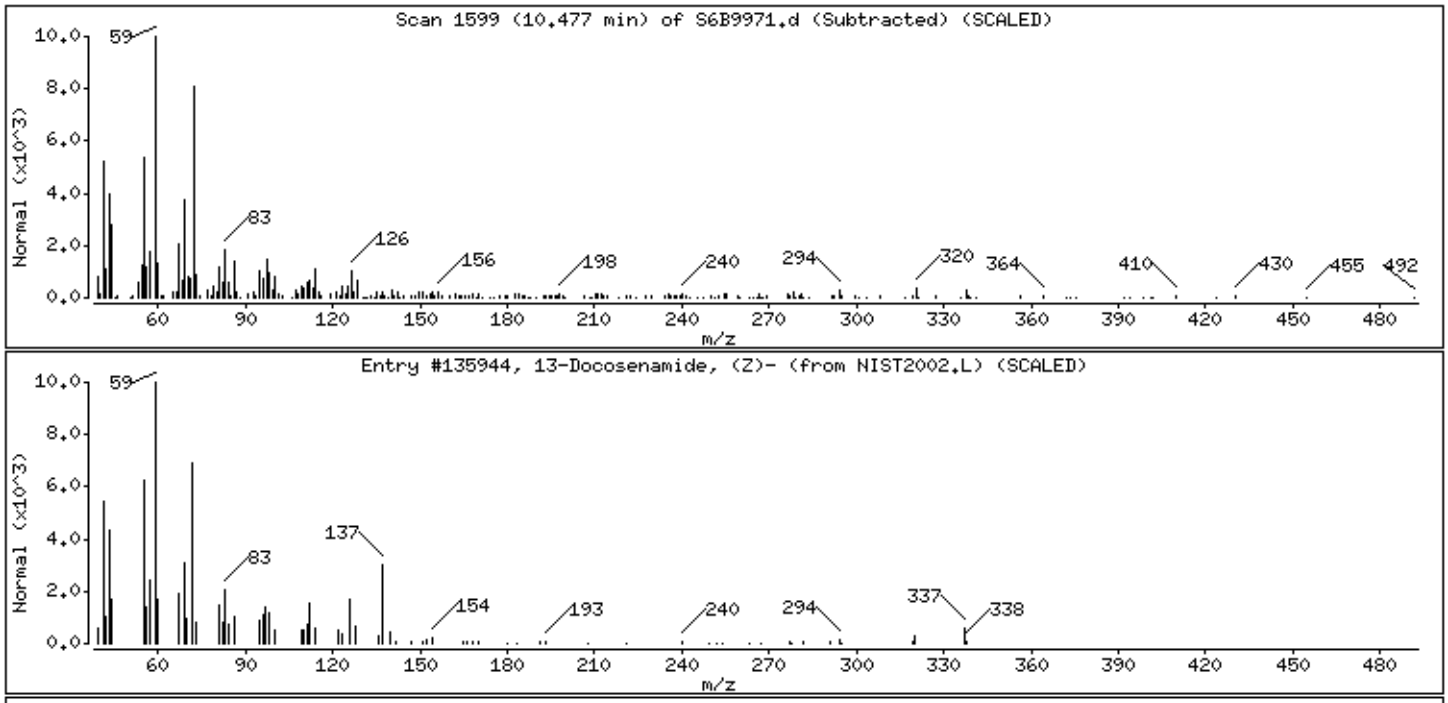
Client ID: (211) TR-3 (11) Instrument: S6.i

Sample Info: N1943-03A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
13-Docosenamide, (Z)-	112-84-5	NIST2002.L	135944	87	C22H43NO	337



EPA SAMPLE NO.
(211) TR-4 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-04A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B9972.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.8 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-4 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-04A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B9972.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.8 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	710	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	480	
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	97	J
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U
92-52-4	1,1´-Biphenyl	350	U
95-94-3	1,2,4,5-Tetrachlorobenzene	350	U
98-86-2	Acetophenone	350	U
1912-24-9	Atrazine	350	U
100-52-7	Benzaldehyde	350	U
105-60-2	Caprolactam	350	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-4 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-04A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B9972.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.8 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	2.303	550	J
02	301-02-0	9-Octadecenamide, (Z)- (9.33	9.331	410	NJ
03	301-02-0	9-Octadecenamide, (Z)- (10.4	10.476	480	NJ

[2]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9972.d
Report Date: 28-Oct-2014 12:12

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9972.d
Lab Smp Id: N1943-04A Client Smp ID: (211) TR-4 (11)
Inj Date : 27-OCT-2014 19:35
Operator : CLM SRC: LIMS Inst ID: S6.i
Smp Info : N1943-04A,,79704
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141027A.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM4_SVOA.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

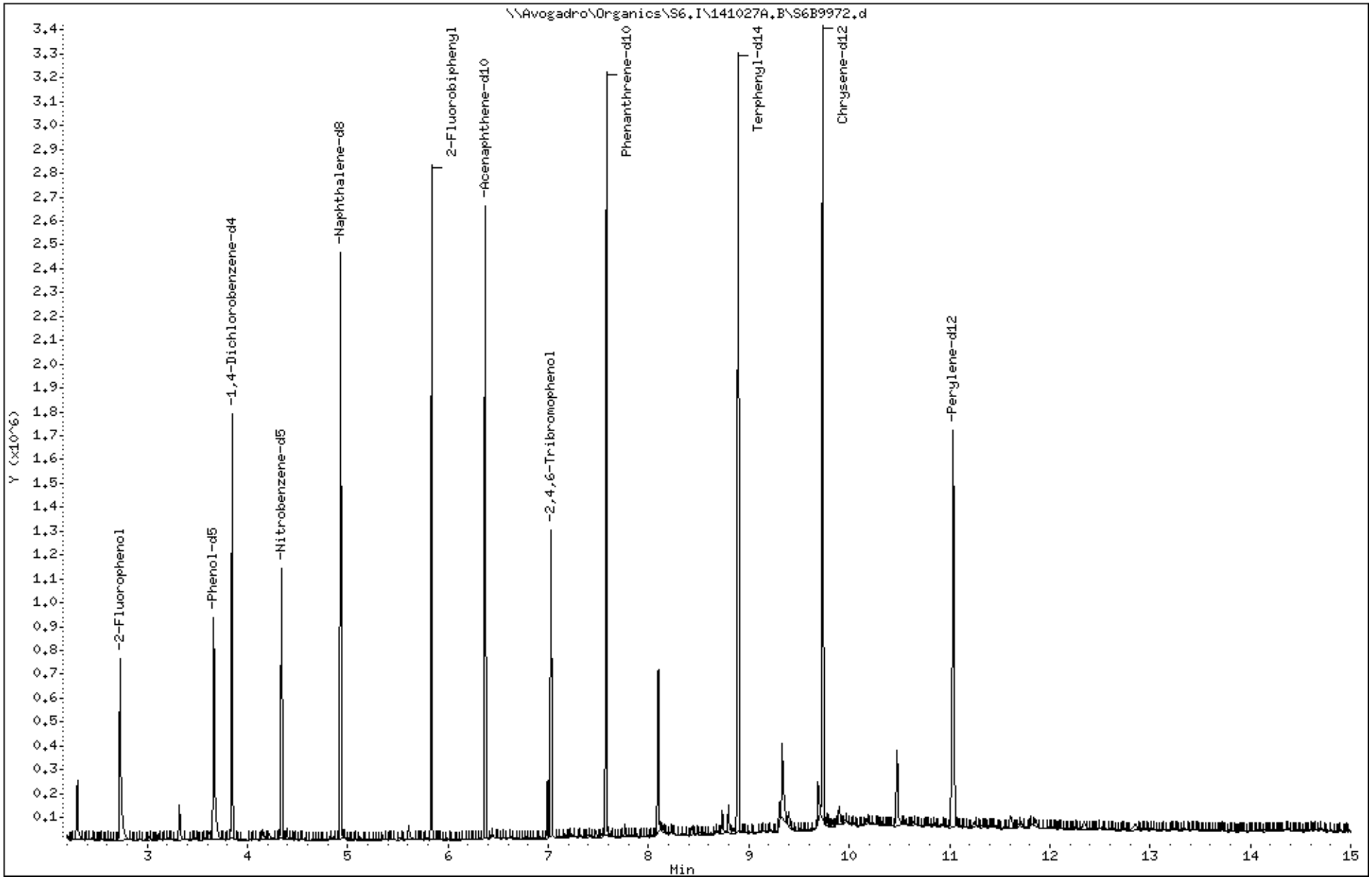
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	2.726	2.720	(0.709)	201266	36.1395	2400
$	5 Phenol-d5	99	3.660	3.654	(0.953)	256861	33.5379	2200
*	12 1,4-Dichlorobenzene-d4	152	3.842	3.842	(1.000)	187145	40.0000	
$	22 Nitrobenzene-d5	82	4.336	4.336	(0.880)	289587	40.2491	2700
*	31 Naphthalene-d8	136	4.929	4.929	(1.000)	641905	40.0000	
$	41 2-Fluorobiphenyl	172	5.834	5.834	(0.916)	555937	41.8028	2800
*	48 Acenaphthene-d10	164	6.369	6.375	(1.000)	410705	40.0000	
$	60 2,4,6-Tribromophenol	330	7.027	7.027	(0.927)	88420	45.4609	3000
*	64 Phenanthrene-d10	188	7.579	7.579	(1.000)	859230	40.0000	
	68 Di-n-butylphthalate	149	8.090	8.090	(1.067)	160872	6.70894	440(a)
$	72 Terphenyl-d14	244	8.895	8.889	(0.914)	764355	45.8167	3000
	73 Butylbenzylphthalate	149	9.307	9.307	(0.956)	14664	1.37185	91(a)
*	76 Chrysene-d12	240	9.736	9.747	(1.000)	931592	40.0000	
*	83 Perylene-d12	264	11.040	11.058	(1.000)	786649	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9972.d
Date : 27-OCT-2014 19:35
Client ID: (211) TR-4 (11)
Instrument: S6.i
Sample Info: N1943-04A,,79704
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9972.d

Date : 27-OCT-2014 19:35

Client ID: (211) TR-4 (11)

Instrument: S6.i

Sample Info: N1943-04A,,79704

Volume Injected (uL): 1.0

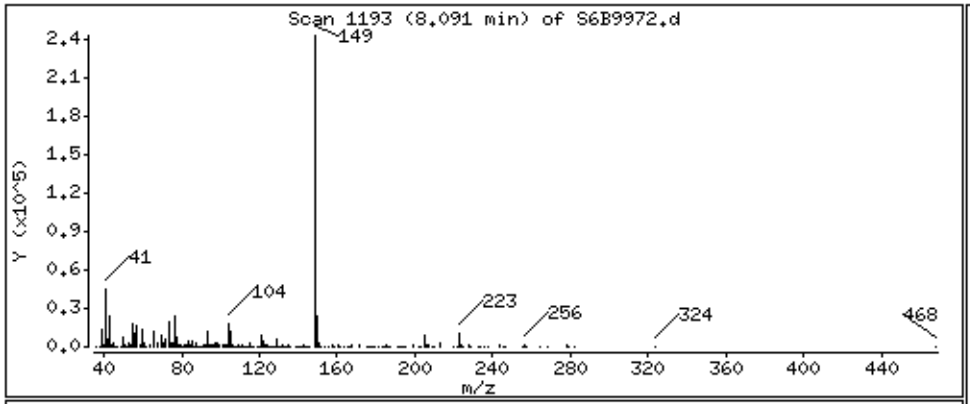
Operator: CLM SRC: LIMS

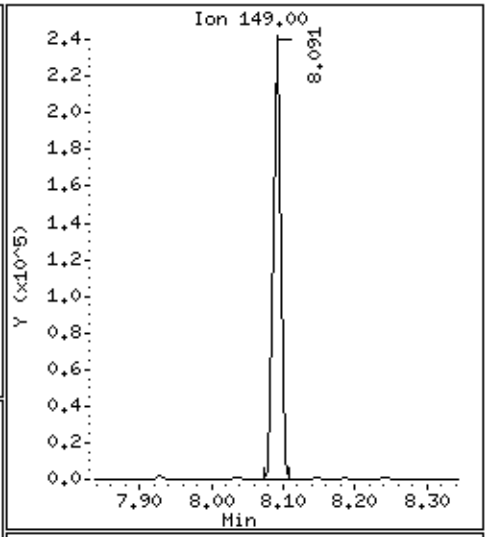
Column phase: Rxi-5Sil MS

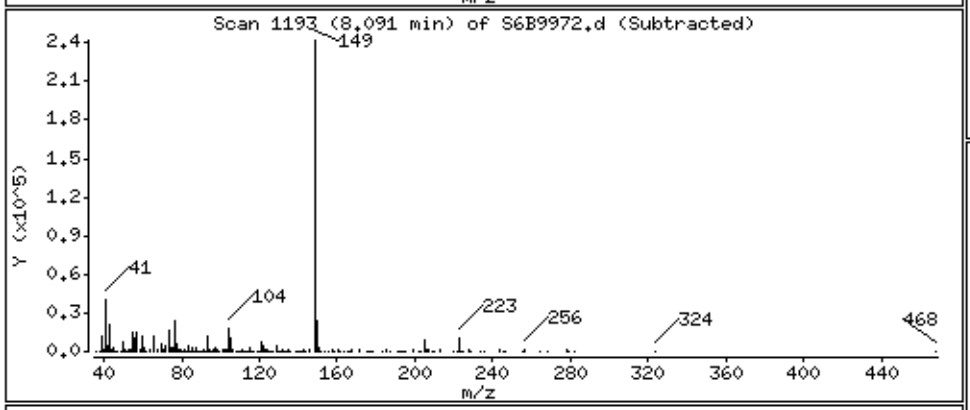
Column diameter: 0.25

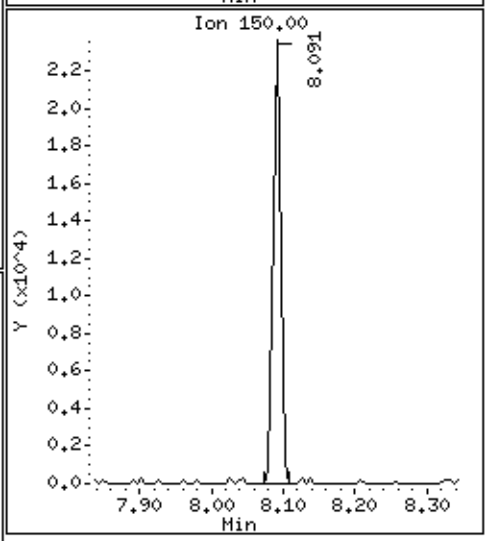
68 Di-n-butylphthalate

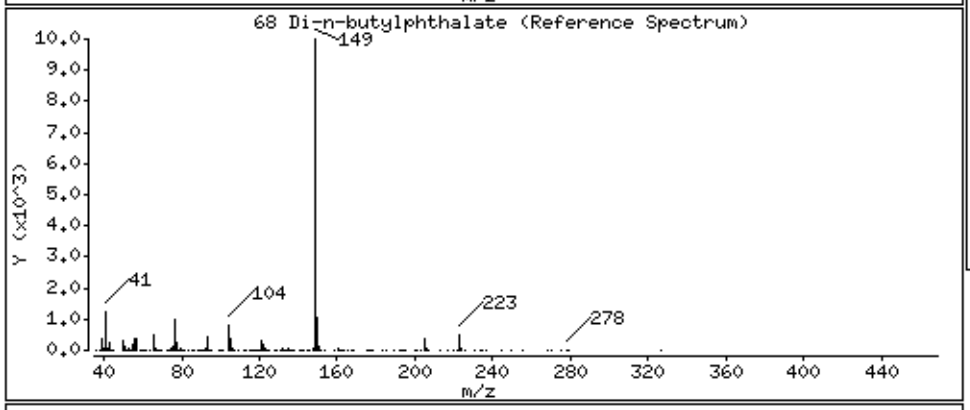
Concentration: 440 ug/Kg

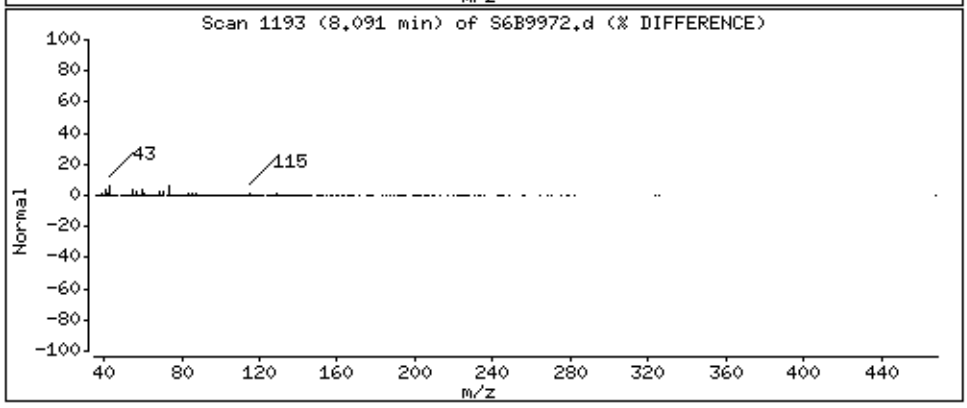












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Date : 27-OCT-2014 19:35

Client ID: (211) TR-4 (11)

Instrument: S6.i

Sample Info: N1943-04A,,79704

Volume Injected (uL): 1.0

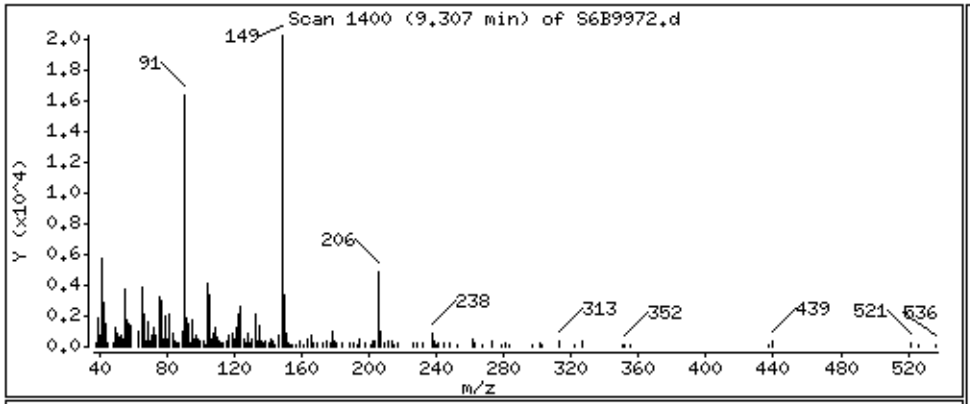
Operator: CLM SRC: LIMS

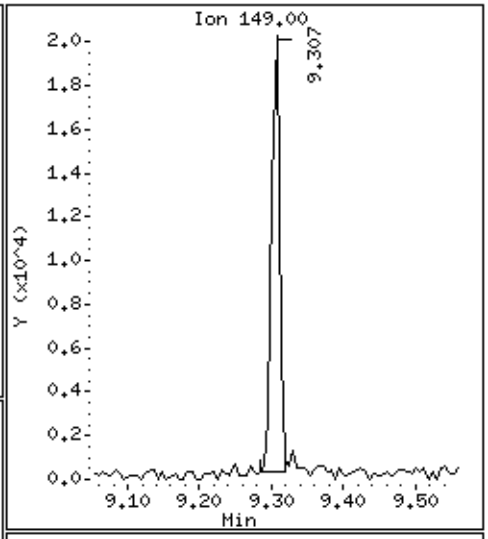
Column phase: Rxi-5Sil MS

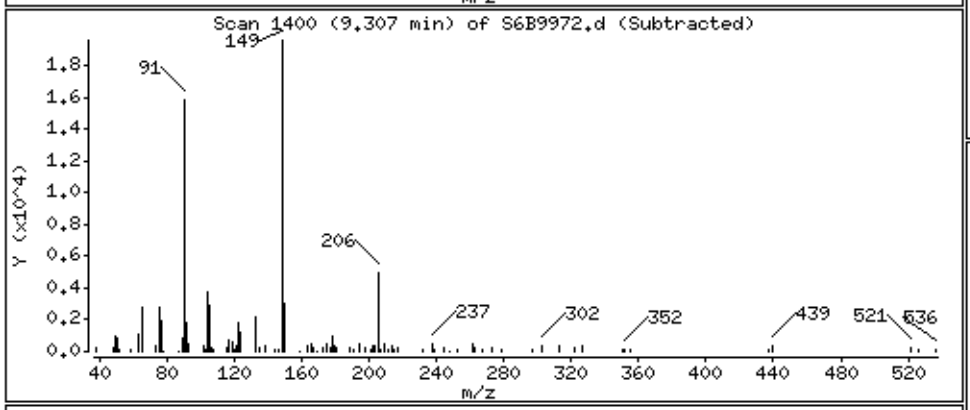
Column diameter: 0.25

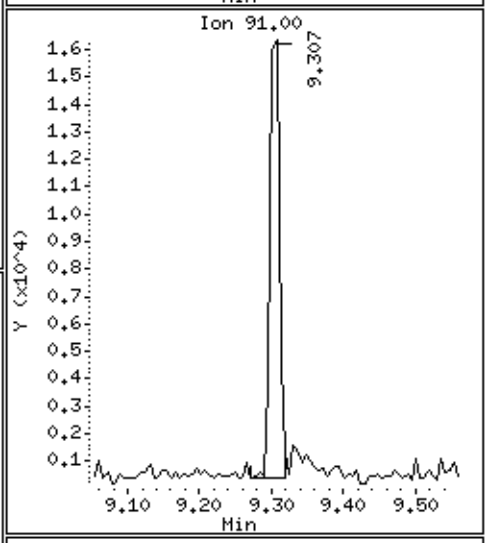
73 Butylbenzylphthalate

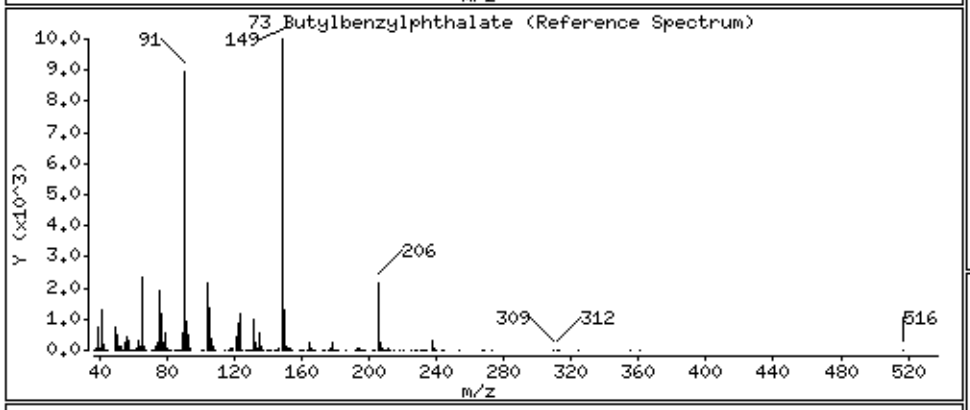
Concentration: 91 ug/Kg

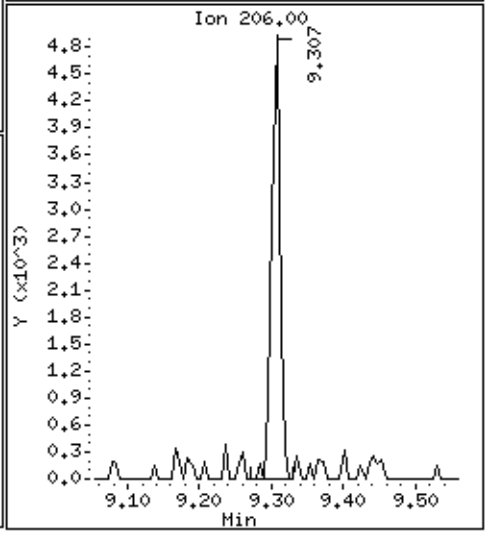


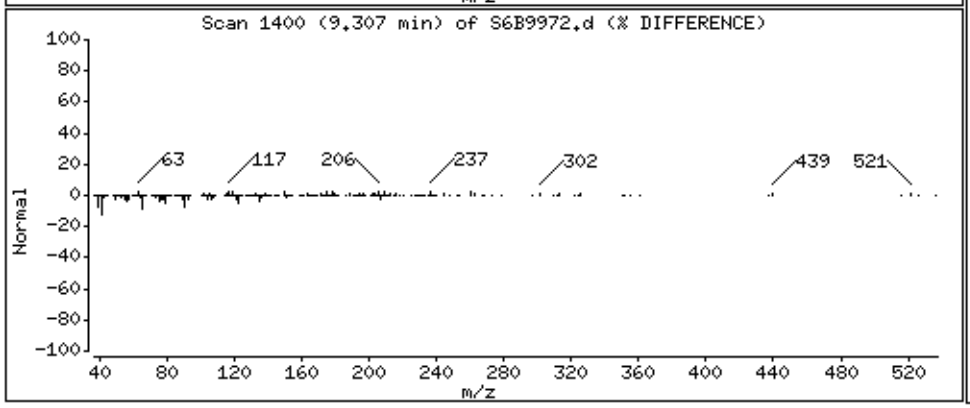












Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9972.d

Date : 27-OCT-2014 19:35

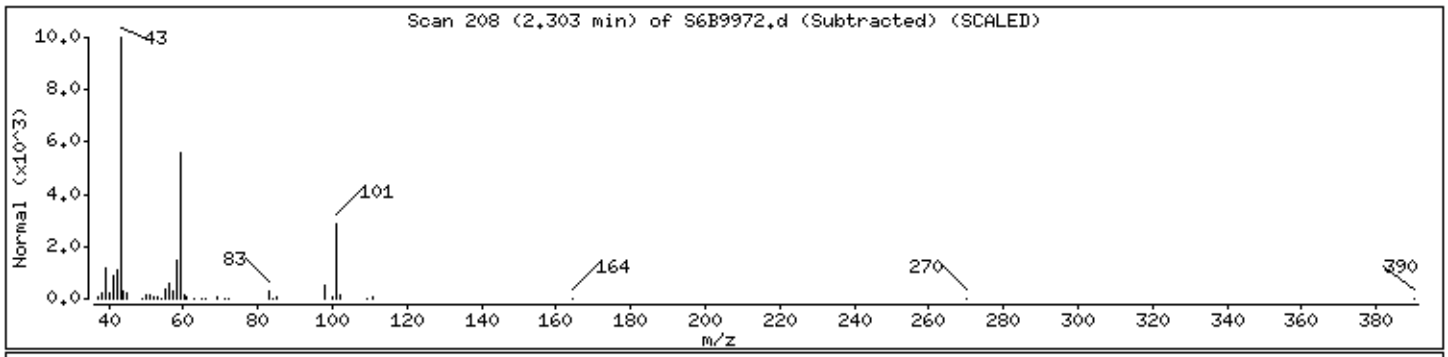
Client ID: (211) TR-4 (11) Instrument: S6.i

Sample Info: N1943-04A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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Date : 27-OCT-2014 19:35

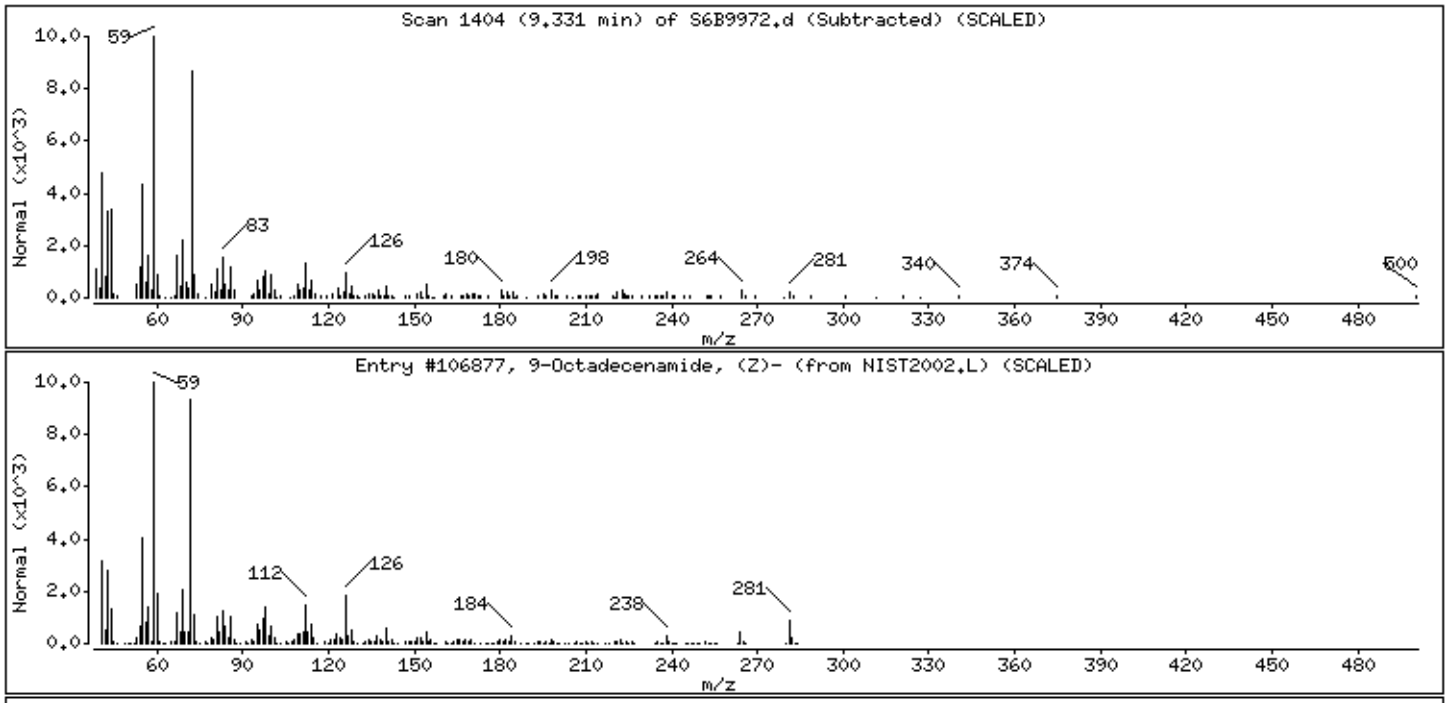
Client ID: (211) TR-4 (11) Instrument: S6.i

Sample Info: N1943-04A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST2002.L	106877	87	C18H35NO	281



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9972.d

Date : 27-OCT-2014 19:35

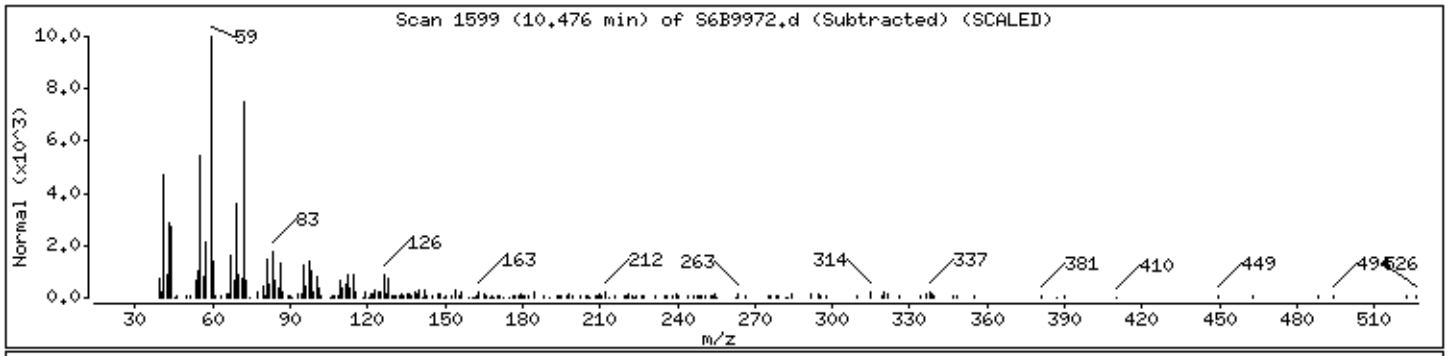
Client ID: (211) TR-4 (11) Instrument: S6.i

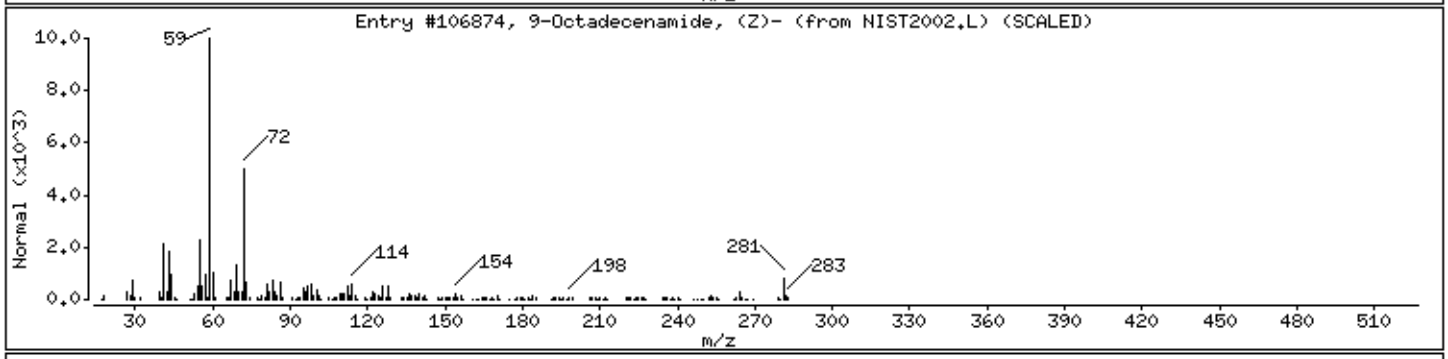
Sample Info: N1943-04A,,79704

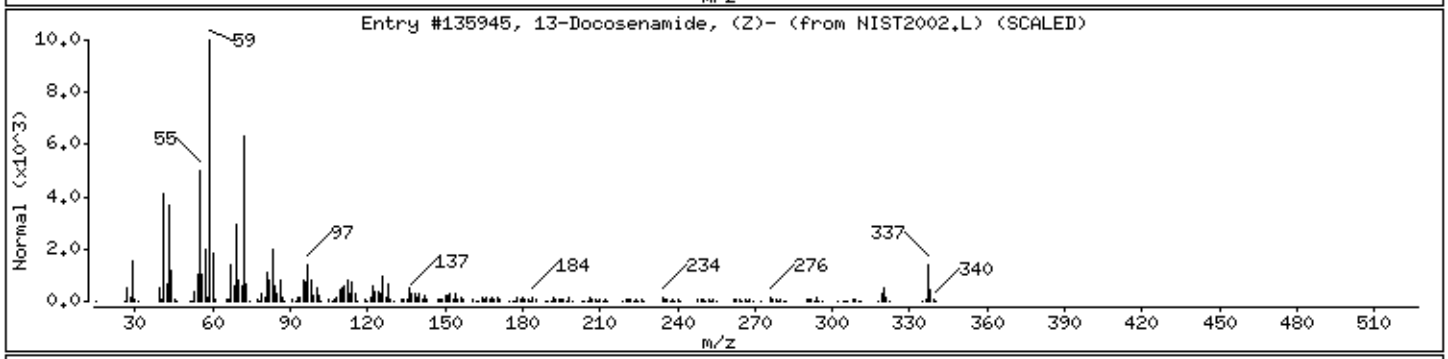
Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST2002.L	106874	87	C18H35NO	281
13-Docosenamide, (Z)-	112-84-5	NIST2002.L	135945	87	C22H43NO	337







EPA SAMPLE NO.
(211) TR-5 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-05A

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9973.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.9 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-5 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-05A

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9973.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.9 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	340	J
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U
92-52-4	1,1´-Biphenyl	360	U
95-94-3	1,2,4,5-Tetrachlorobenzene	360	U
98-86-2	Acetophenone	360	U
1912-24-9	Atrazine	360	U
100-52-7	Benzaldehyde	360	U
105-60-2	Caprolactam	360	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-5 (11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-05A

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9973.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.9 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	141-79-7	3-Penten-2-one, 4-methyl-	1.816	410	AJN
02		Unknown (2.30352)	2.304	590	J
03		Unknown (3.42575)	3.426	850	J
04		Unknown (9.33070)	9.331	540	J
05		Unknown (10.47643)	10.476	440	J

[2]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9973.d
Report Date: 28-Oct-2014 12:12

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9973.d
Lab Smp Id: N1943-05A Client Smp ID: (211) TR-5 (11)
Inj Date : 27-OCT-2014 19:55
Operator : CLM   SRC: LIMS Inst ID: S6.i
Smp Info : N1943-05A,,79704
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141027A.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM4_SVOA.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

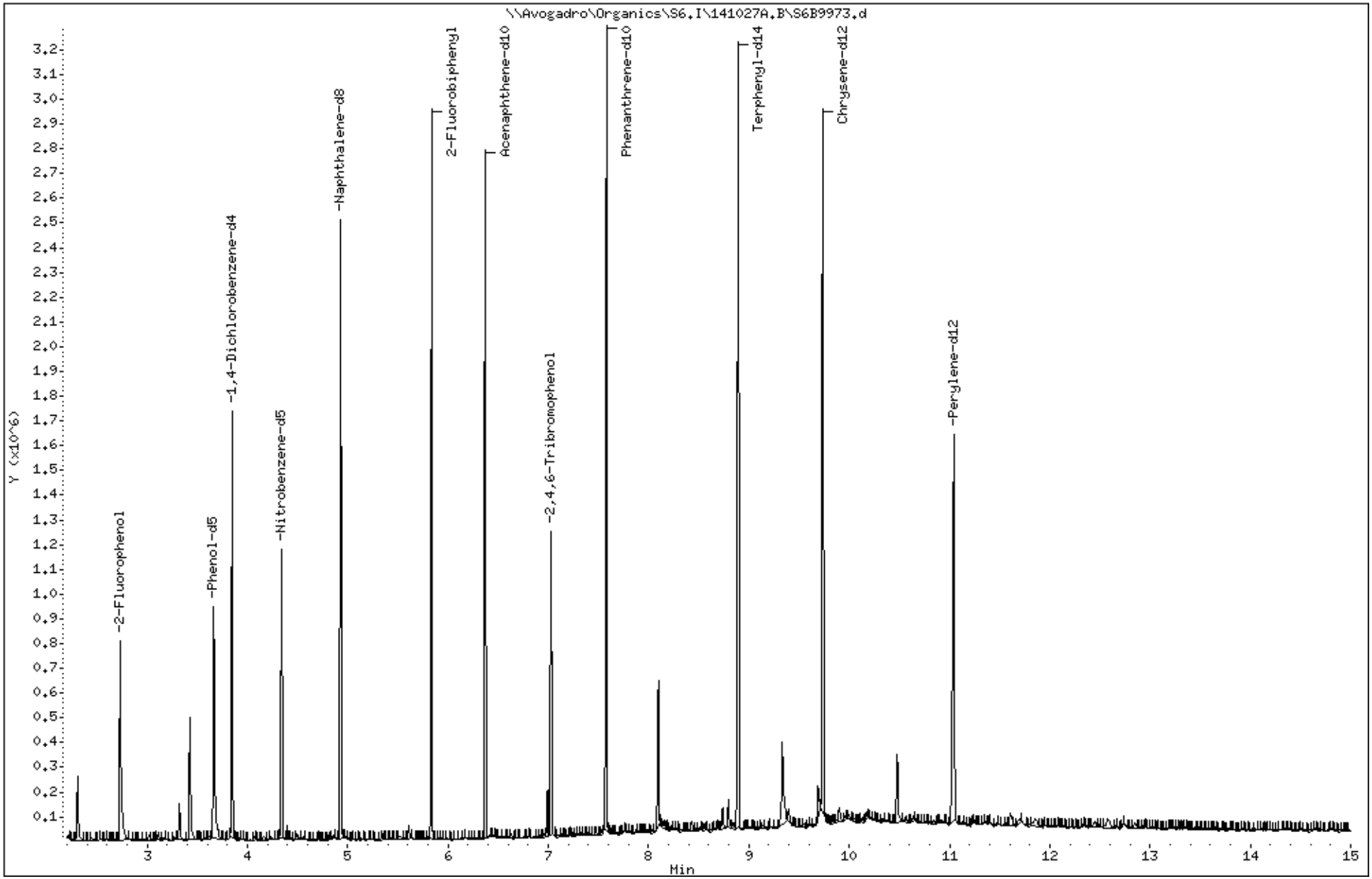
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	2.726	2.720	(0.708)	208838	36.6013	2400
$	5 Phenol-d5	99	3.660	3.654	(0.951)	260581	33.2089	2200
*	12 1,4-Dichlorobenzene-d4	152	3.848	3.842	(1.000)	191736	40.0000	
$	22 Nitrobenzene-d5	82	4.342	4.336	(0.881)	297884	40.4325	2700
*	31 Naphthalene-d8	136	4.929	4.929	(1.000)	657300	40.0000	
$	41 2-Fluorobiphenyl	172	5.834	5.834	(0.916)	578440	42.3214	2800
*	48 Acenaphthene-d10	164	6.369	6.375	(1.000)	422093	40.0000	
$	60 2,4,6-Tribromophenol	330	7.027	7.027	(0.927)	86740	44.2726	3000
*	64 Phenanthrene-d10	188	7.579	7.579	(1.000)	865528	40.0000	
	68 Di-n-butylphthalate	149	8.090	8.090	(1.067)	110782	4.58639	300(a)
$	72 Terphenyl-d14	244	8.895	8.889	(0.914)	753917	46.4648	3100
*	76 Chrysene-d12	240	9.736	9.747	(1.000)	906054	40.0000	
*	83 Perylene-d12	264	11.040	11.058	(1.000)	752871	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9973.d
Date : 27-OCT-2014 19:55
Client ID: (211) TR-5 (11)
Instrument: S6.i
Sample Info: N1943-05A,,79704
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9973.d

Date : 27-OCT-2014 19:55

Client ID: (211) TR-5 (11)

Instrument: S6.i

Sample Info: N1943-05A,,79704

Volume Injected (uL): 1.0

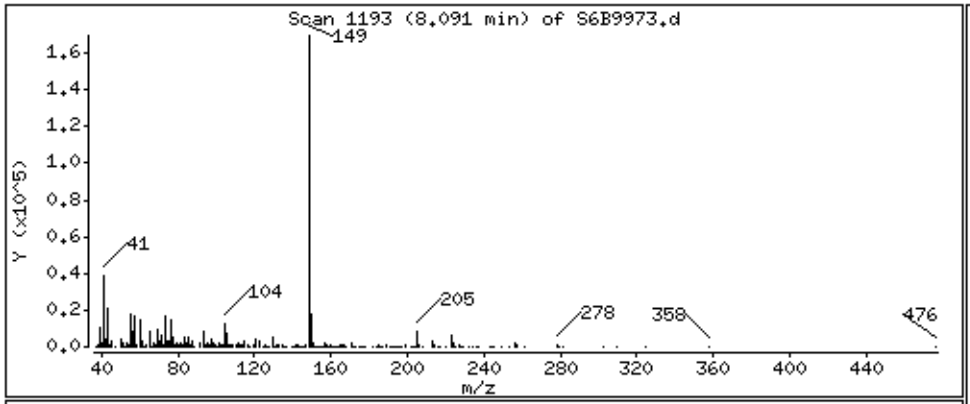
Operator: CLM SRC: LIMS

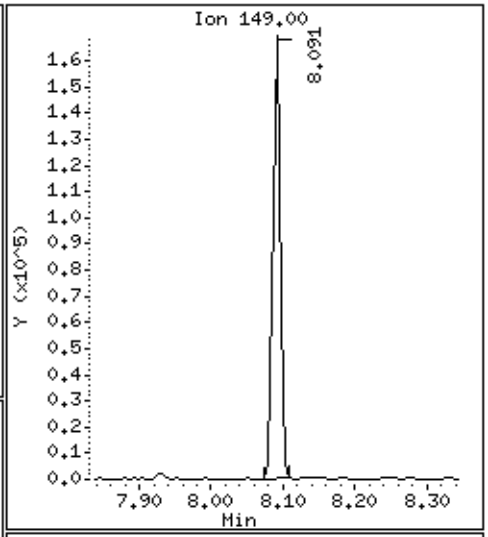
Column phase: Rxi-5Sil MS

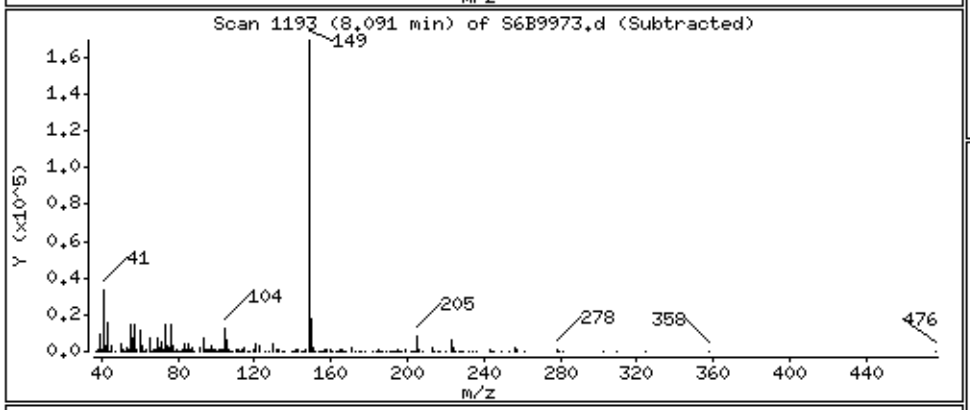
Column diameter: 0.25

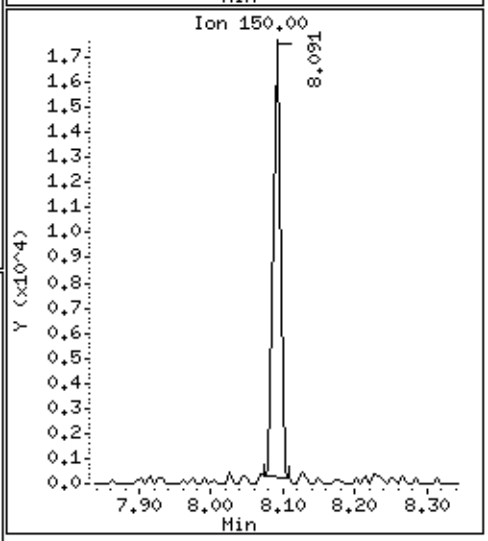
68 Di-n-butylphthalate

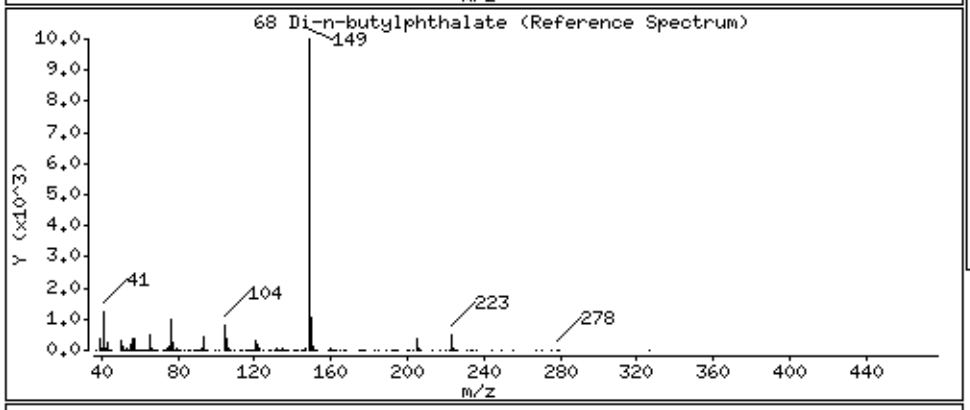
Concentration: 300 ug/Kg

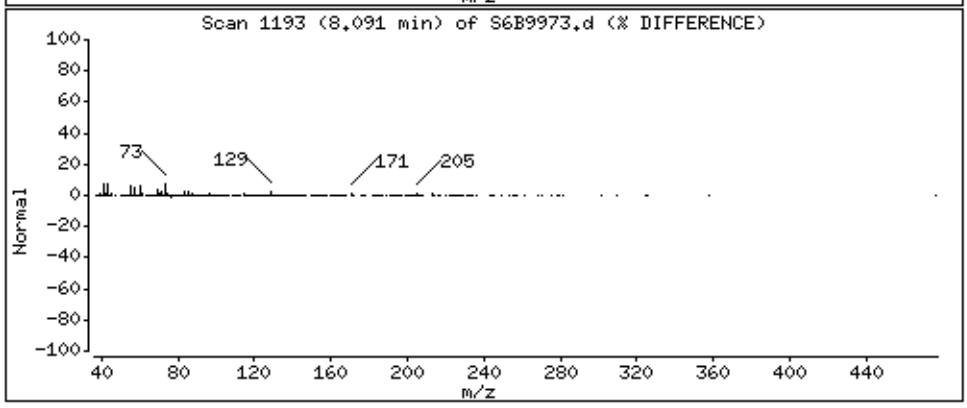












Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9973.d

Date : 27-OCT-2014 19:55

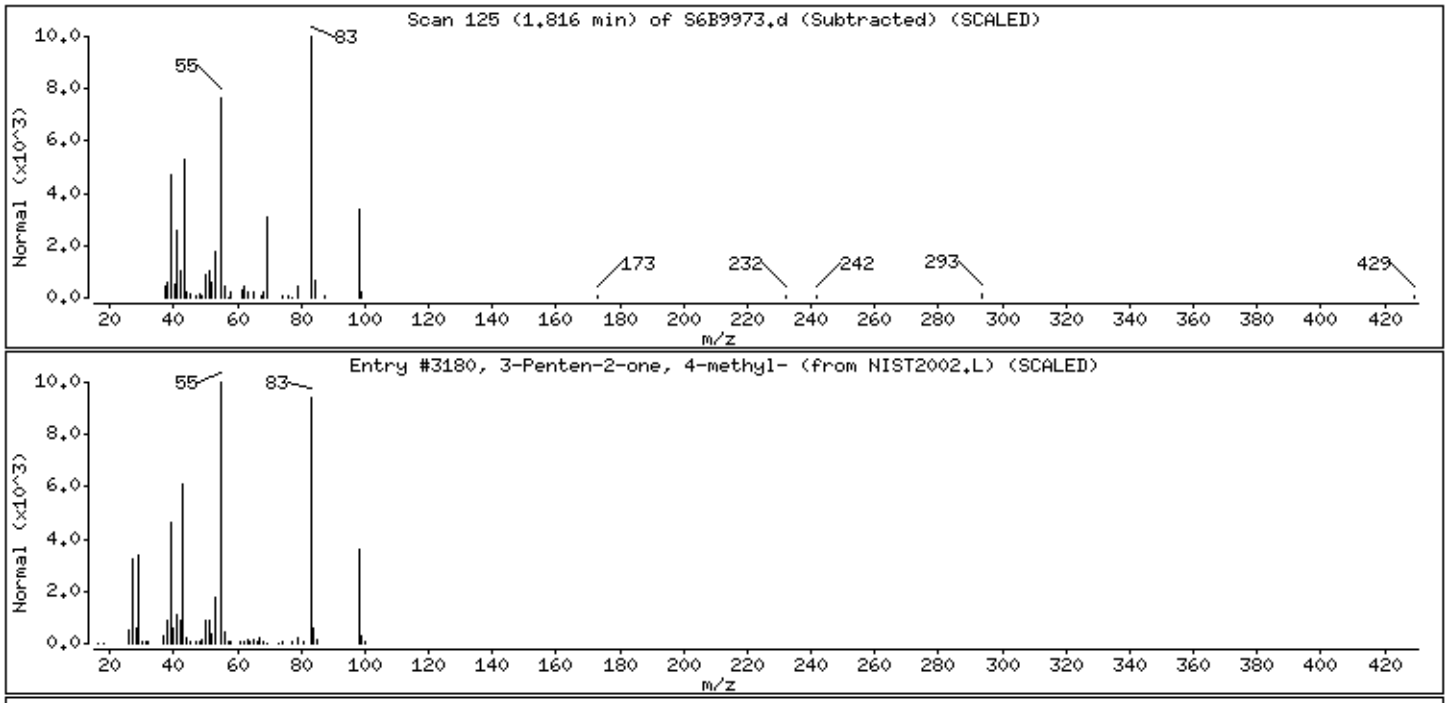
Client ID: (211) TR-5 (11) Instrument: S6.i

Sample Info: N1943-05A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Penten-2-one, 4-methyl-	141-79-7	NIST2002.L	3180	90	C6H10O	98



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9973.d

Date : 27-OCT-2014 19:55

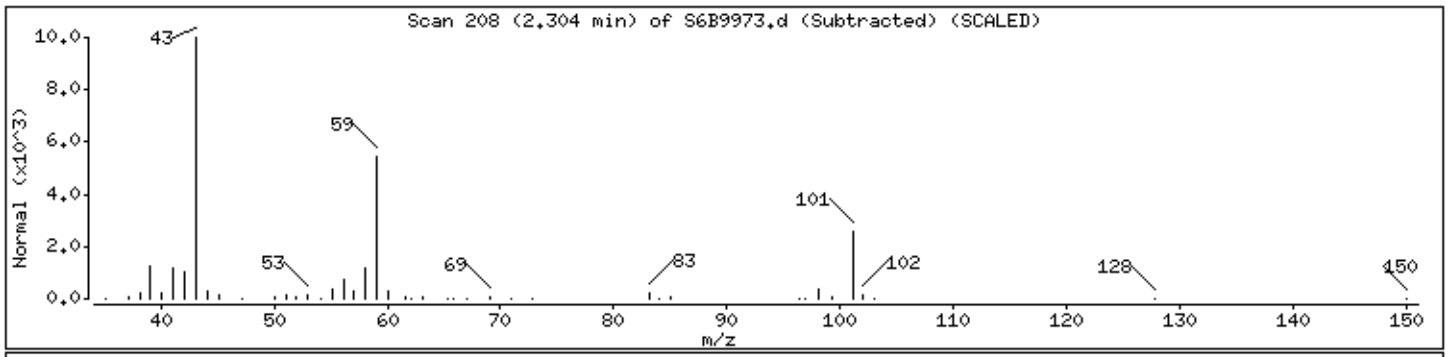
Client ID: (211) TR-5 (11) Instrument: S6.i

Sample Info: N1943-05A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9973.d

Date : 27-OCT-2014 19:55

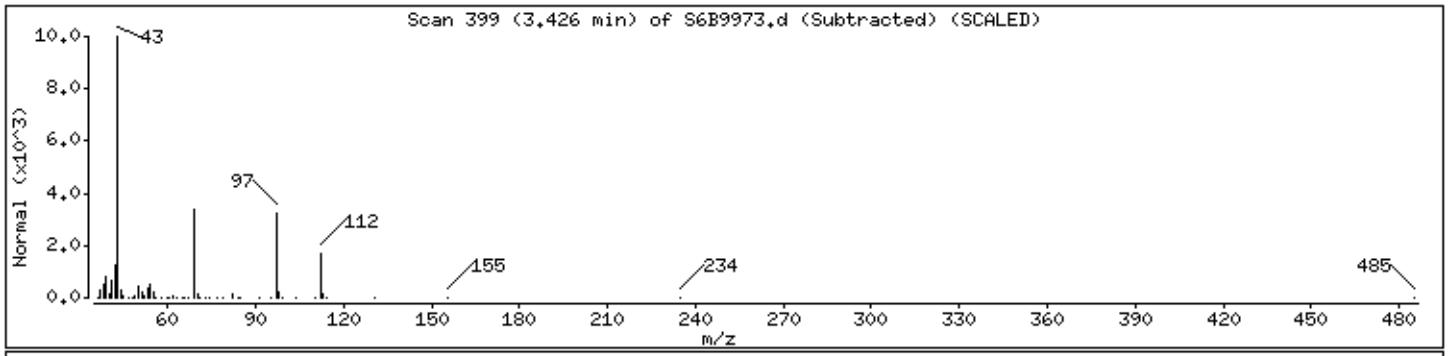
Client ID: (211) TR-5 (11) Instrument: S6.i

Sample Info: N1943-05A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9973.d

Date : 27-OCT-2014 19:55

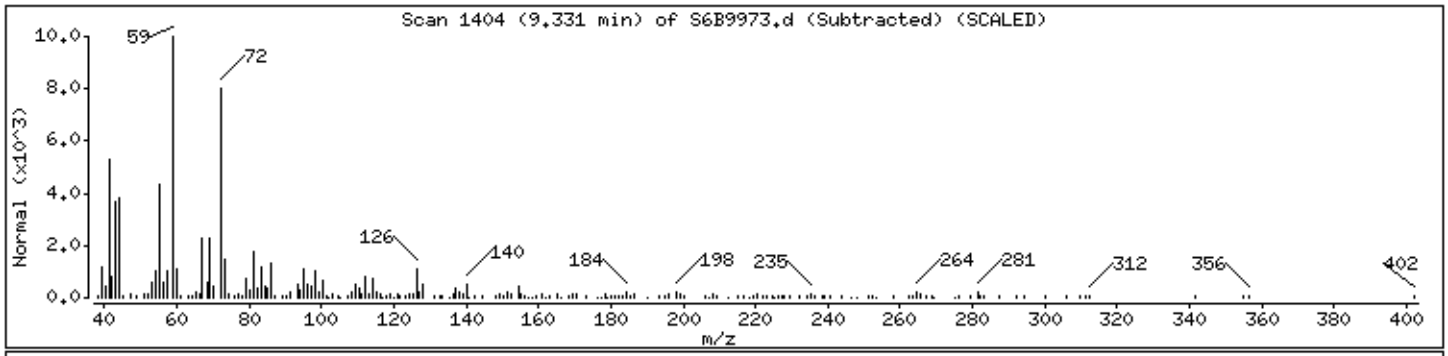
Client ID: (211) TR-5 (11) Instrument: S6.i

Sample Info: N1943-05A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9973.d

Date : 27-OCT-2014 19:55

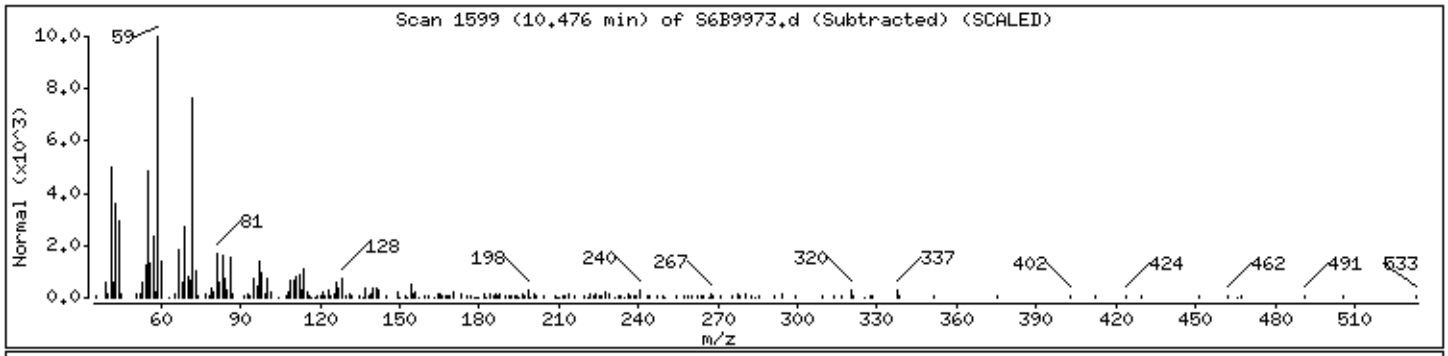
Client ID: (211) TR-5 (11) Instrument: S6.i

Sample Info: N1943-05A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-6 (14)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-06A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B9974.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2´-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(211) TR-6 (14)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-06A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B9974.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	710	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	330	J
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3´-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	Bis(2-ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U
92-52-4	1,1´-Biphenyl	350	U
95-94-3	1,2,4,5-Tetrachlorobenzene	350	U
98-86-2	Acetophenone	350	U
1912-24-9	Atrazine	350	U
100-52-7	Benzaldehyde	350	U
105-60-2	Caprolactam	350	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

(211) TR-6 (14)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N1943-06A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B9974.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 10/16/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	763-93-9	3-Hexen-2-one	1.804	280	AJN
02		Unknown (2.30365)	2.304	540	J
03		Unknown (3.32012)	3.320	290	J
04		Unknown (9.33670)	9.337	320	J
05	301-02-0	9-Octadecenamide, (Z)-	10.482	760	NJ

[2]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9974.d
Report Date: 28-Oct-2014 12:12

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9974.d
Lab Smp Id: N1943-06A Client Smp ID: (211) TR-6 (14)
Inj Date : 27-OCT-2014 20:15
Operator : CLM SRC: LIMS Inst ID: S6.i
Smp Info : N1943-06A,,79704
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141027A.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM4_SVOA.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

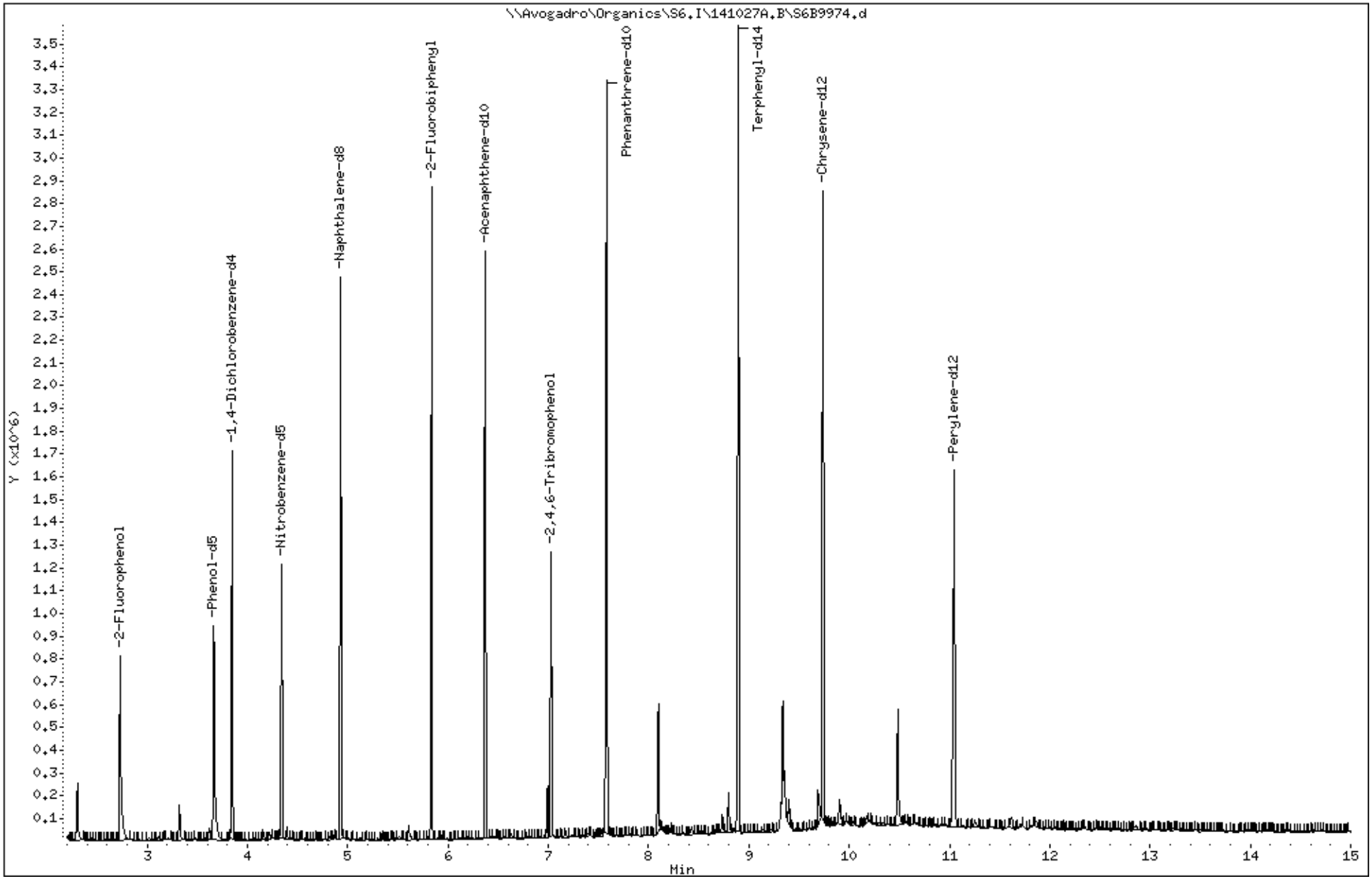
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.200	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	2.726	2.720	(0.710)	207157	38.2207	2500
$	5 Phenol-d5	99	3.660	3.654	(0.953)	266246	35.7197	2300
*	12 1,4-Dichlorobenzene-d4	152	3.843	3.842	(1.000)	182134	40.0000	
$	22 Nitrobenzene-d5	82	4.342	4.336	(0.881)	303581	42.7937	2800
*	31 Naphthalene-d8	136	4.930	4.929	(1.000)	632911	40.0000	
$	41 2-Fluorobiphenyl	172	5.834	5.834	(0.916)	573643	43.9676	2900
*	48 Acenaphthene-d10	164	6.369	6.375	(1.000)	402920	40.0000	
$	60 2,4,6-Tribromophenol	330	7.027	7.027	(0.927)	86268	45.1705	3000
*	64 Phenanthrene-d10	188	7.579	7.579	(1.000)	843707	40.0000	
	68 Di-n-butylphthalate	149	8.091	8.090	(1.067)	109836	4.66483	310(a)
$	72 Terphenyl-d14	244	8.896	8.889	(0.913)	761441	47.6354	3100
*	76 Chrysene-d12	240	9.742	9.747	(1.000)	892609	40.0000	
*	83 Perylene-d12	264	11.046	11.058	(1.000)	765290	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9974.d
Date : 27-OCT-2014 20:15
Client ID: (211) TR-6 (14)
Instrument: S6.i
Sample Info: N1943-06A,,79704
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9974.d

Date : 27-OCT-2014 20:15

Client ID: (211) TR-6 (14)

Instrument: S6.i

Sample Info: N1943-06A,,79704

Volume Injected (uL): 1.0

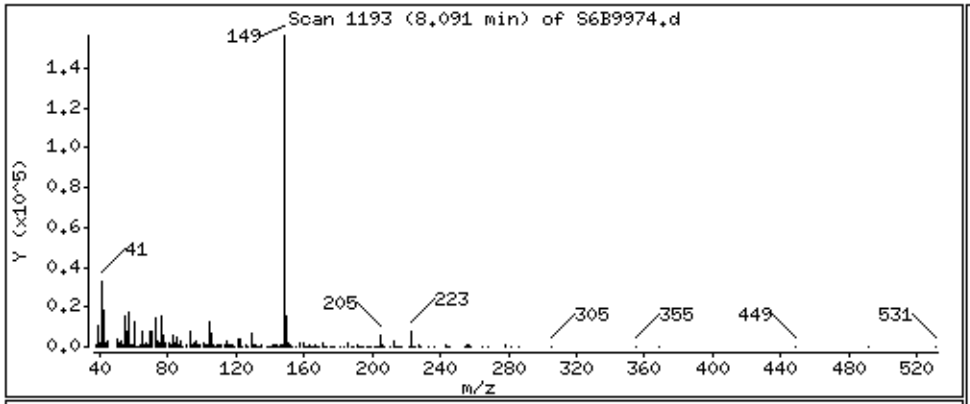
Operator: CLM SRC: LIMS

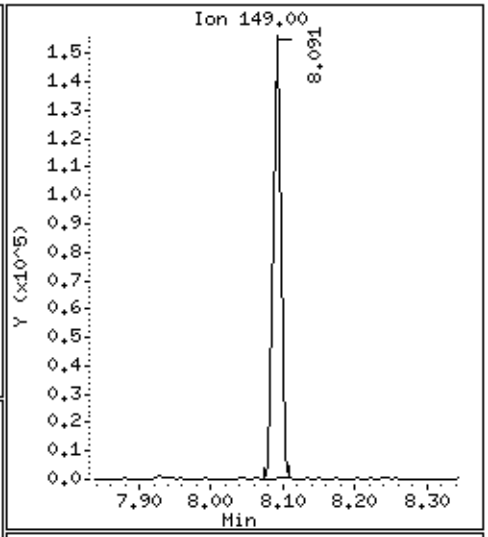
Column phase: Rxi-5Sil MS

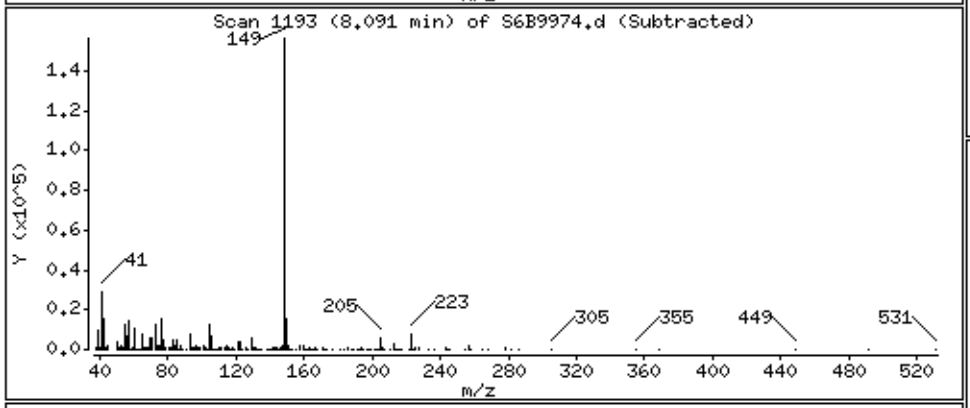
Column diameter: 0.25

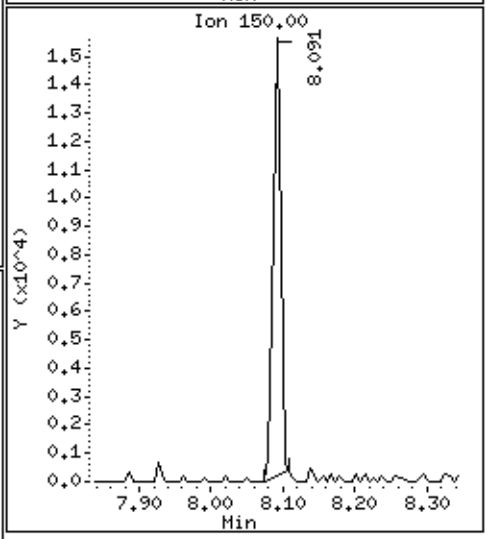
68 Di-n-butylphthalate

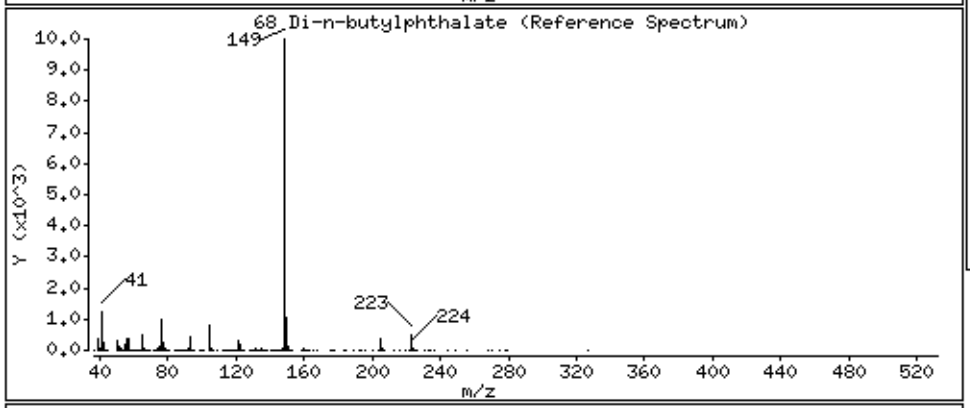
Concentration: 310 ug/Kg

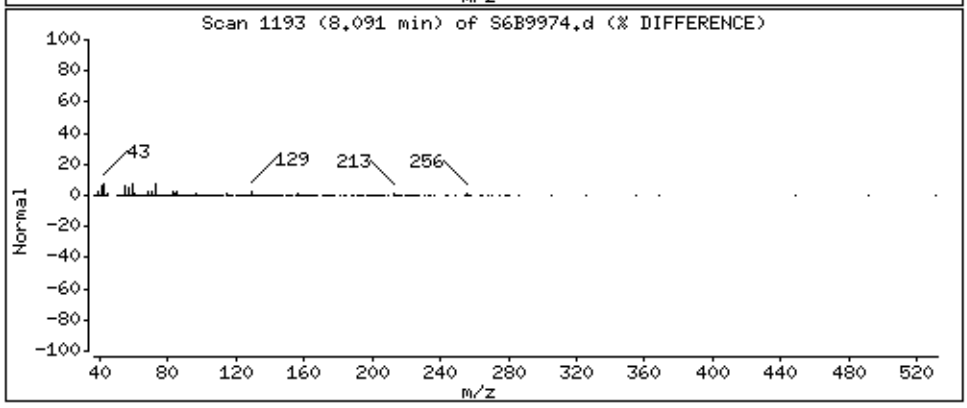












Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9974.d

Date : 27-OCT-2014 20:15

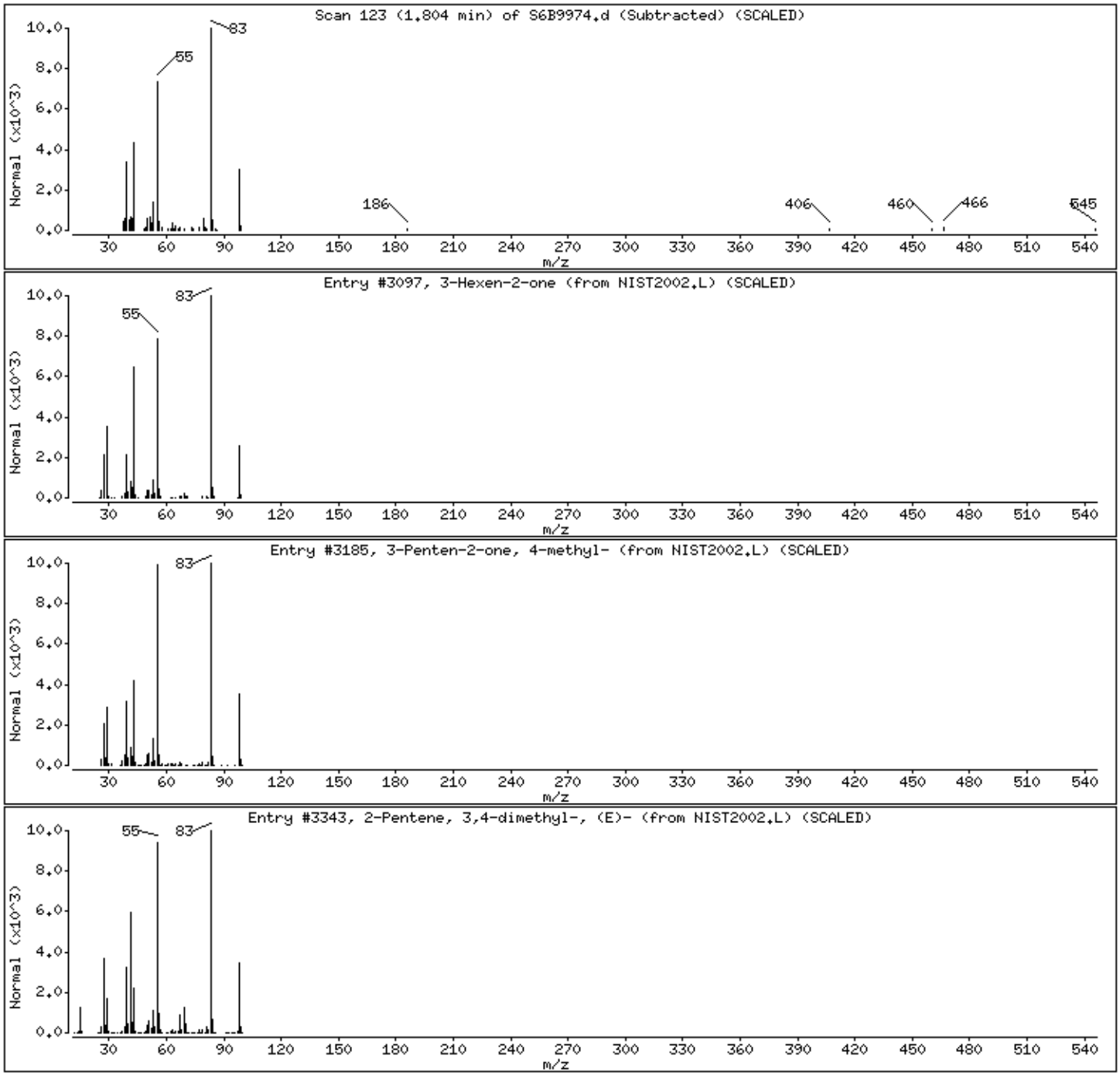
Client ID: (211) TR-6 (14) Instrument: S6.i

Sample Info: N1943-06A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Hexen-2-one	763-93-9	NIST2002.L	3097	87	C6H10O	98
3-Penten-2-one, 4-methyl-	141-79-7	NIST2002.L	3185	87	C6H10O	98
2-Pentene, 3,4-dimethyl-, (E)-	4914-92-5	NIST2002.L	3343	86	C7H14	98



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9974.d

Date : 27-OCT-2014 20:15

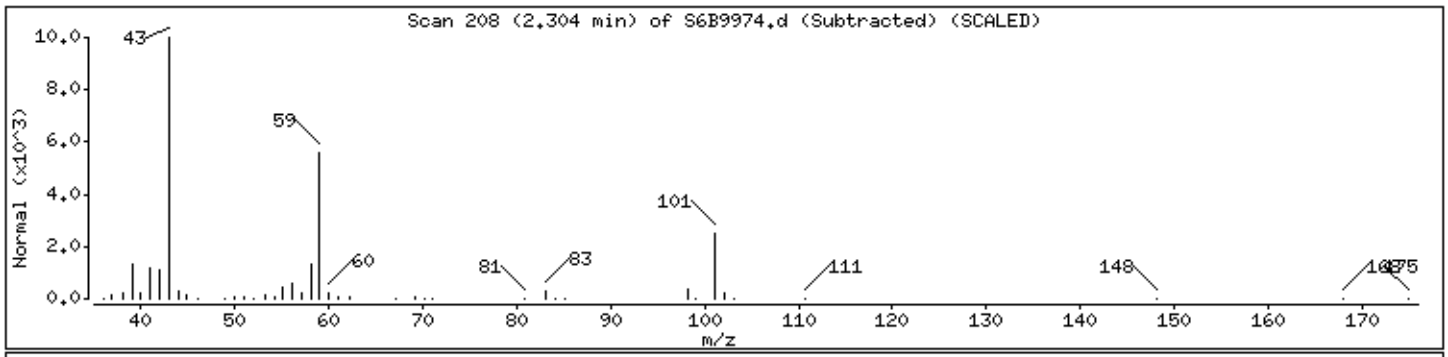
Client ID: (211) TR-6 (14) Instrument: S6.i

Sample Info: N1943-06A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9974.d

Date : 27-OCT-2014 20:15

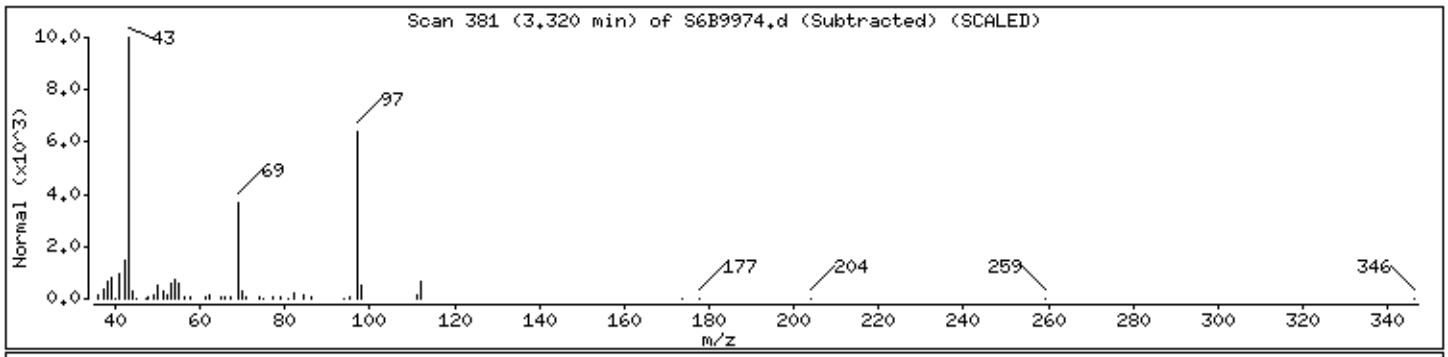
Client ID: (211) TR-6 (14) Instrument: S6.i

Sample Info: N1943-06A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9974.d

Date : 27-OCT-2014 20:15

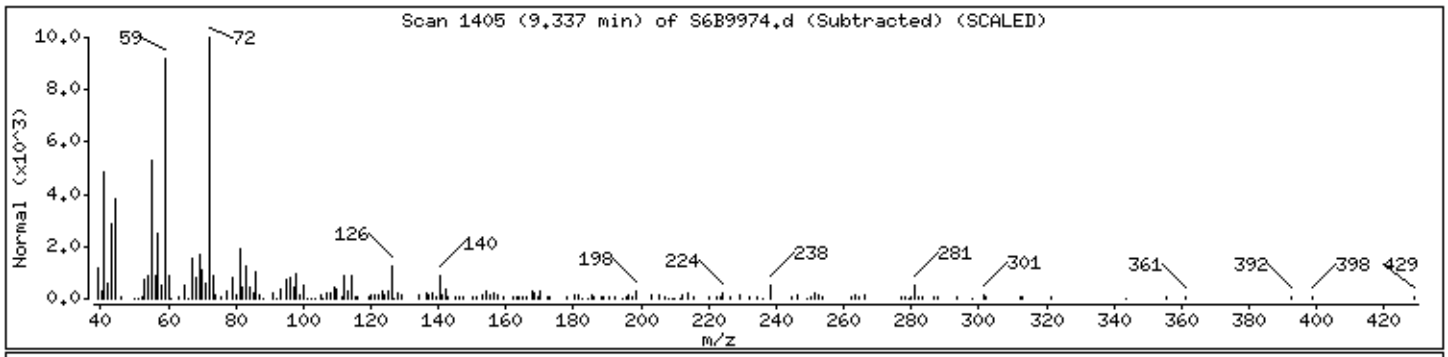
Client ID: (211) TR-6 (14) Instrument: S6.i

Sample Info: N1943-06A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9974.d

Date : 27-OCT-2014 20:15

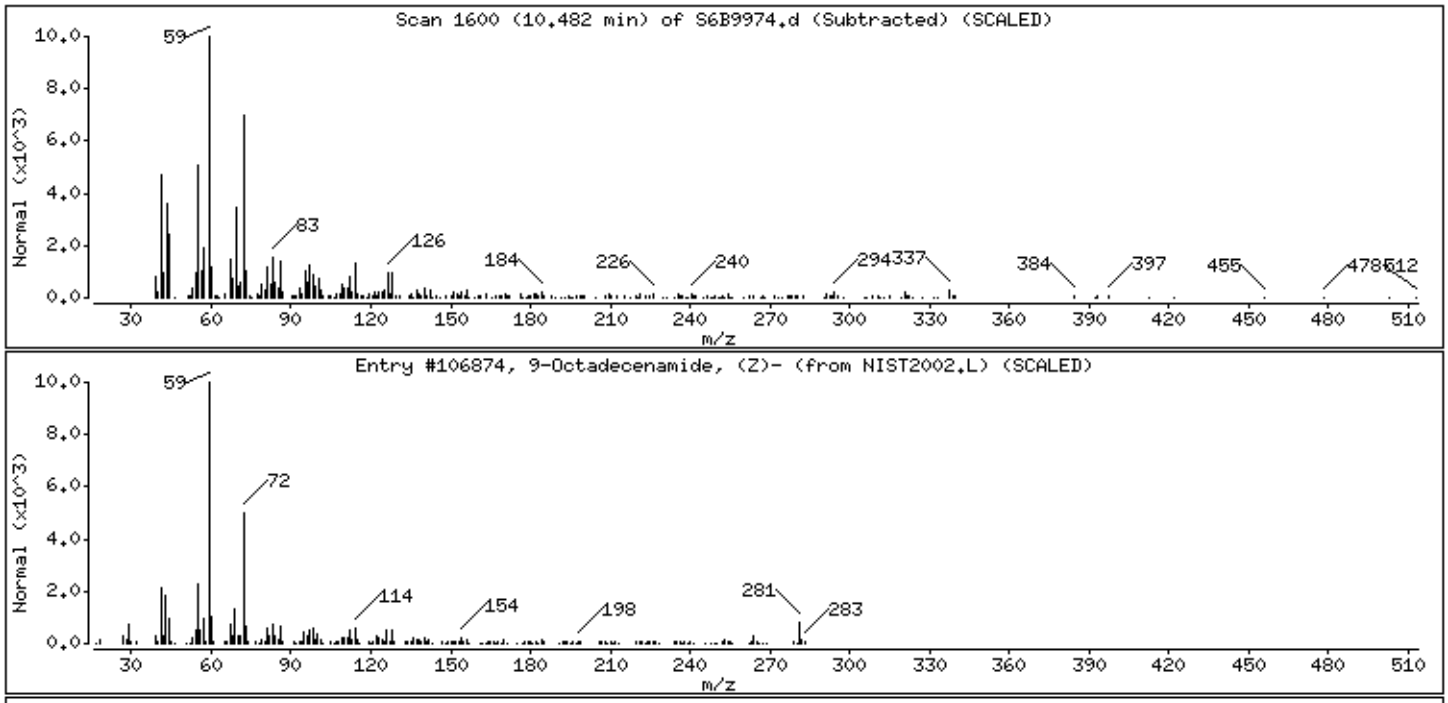
Client ID: (211) TR-6 (14) Instrument: S6.i

Sample Info: N1943-06A,,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST2002.L	106874	86	C18H35NO	281



6 - FORM VI SV-2

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: N1943 SAS No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date(s): 09/26/2014 09/26/2014

Calibration Times: 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B9501.D RRF010 = S6B9502.D RRF025 = S6B9499.D RRF040 = S6B9503.D RRF060 = S6B9504.D
RRF080 = S6B9500.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Phenol	1.400	1.470	1.773	1.712	1.709	1.689					1.625	9.3
Bis(2-chloroethyl)ether	0.749	0.742	0.865	0.837	0.822	0.856					0.812	6.6
2-Chlorophenol	1.142	1.212	1.348	1.339	1.347	1.347					1.289	7.0
2-Methylphenol	1.128	1.099	1.327	1.268	1.230	1.217					1.211	7.1
2,2´-oxybis(1-Chloropropane)	1.000	1.042	1.182	1.149	1.159	1.195					1.121	7.1
4-Methylphenol	1.208	1.229	1.411	0.928	1.335	1.303					1.236	13.6
N-Nitroso-di-n-propylamine	1.016	1.062	1.226	1.198	1.158	1.188					1.142	7.3
Hexachloroethane	0.549	0.585	0.661	0.642	0.642	0.683					0.627	8.0
Nitrobenzene	0.565	0.601	0.662	0.583	0.510	0.528					0.575	9.5
Isophorone	0.702	0.703	0.813	0.760	0.741	0.755					0.746	5.5
2-Nitrophenol	0.205	0.193	0.228	0.213	0.200	0.208					0.208	5.8
2,4-Dimethylphenol	0.409	0.408	0.483	0.437	0.438	0.441					0.436	6.3
2,4-Dichlorophenol	0.294	0.308	0.349	0.326	0.332	0.346					0.326	6.6
Naphthalene	0.923	0.897	1.037	0.979	0.982	1.033					0.975	5.8
4-Chloroaniline	0.393	0.396	0.455	0.423	0.418	0.436					0.420	5.6
Bis(2-chloroethoxy)methane	0.429	0.413	0.483	0.442	0.440	0.461					0.445	5.5
Hexachlorobutadiene	0.243	0.251	0.275	0.259	0.265	0.278					0.262	5.3
4-Chloro-3-methylphenol	0.354	0.373	0.428	0.408	0.418	0.424					0.401	7.5
2-Methylnaphthalene	0.986	0.947	1.096	1.025	1.048	1.065					1.028	5.3
Hexachlorocyclopentadiene	0.149	0.207	0.304	0.317	0.355	0.395					0.288	32.1
2,4,6-Trichlorophenol	0.394	0.367	0.427	0.401	0.400	0.411					0.400	5.0
2,4,5-Trichlorophenol		0.378	0.447	0.415	0.417	0.423					0.416	5.9
2-Chloronaphthalene	1.013	0.992	1.116	1.079	1.080	1.156					1.073	5.7
2-Nitroaniline		0.395	0.468	0.413	0.400	0.407					0.417	7.1
Dimethylphthalate	1.311	1.304	1.501	1.384	1.370	1.361					1.372	5.2
Acenaphthylene	1.640	1.699	1.916	1.750	1.741	1.802					1.758	5.4
2,6-Dinitrotoluene	0.325	0.313	0.359	0.321	0.316	0.326					0.327	5.2

6 - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: N1943 SAS No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date(s): 09/26/2014 09/26/2014

Calibration Times: 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B9501.D RRF010 = S6B9502.D RRF025 = S6B9499.D RRF040 = S6B9503.D RRF060 = S6B9504.D
RRF080 = S6B9500.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
3-Nitroaniline		0.317	0.372	0.337	0.321	0.338					0.337	6.4
Acenaphthene	1.072	1.075	1.237	1.163	1.167	1.217					1.155	6.0
2,4-Dinitrophenol		0.112	0.148	0.151	0.155	0.156					0.144	12.7
4-Nitrophenol		0.191	0.249	0.263	0.277	0.272					0.250	14.0
Dibenzofuran	1.517	1.480	1.696	1.560	1.545	1.593					1.565	4.8
2,4-Dinitrotoluene	0.429	0.441	0.484	0.441	0.439	0.429					0.444	4.6
Diethylphthalate	1.365	1.314	1.520	1.379	1.341	1.369					1.381	5.2
4-Chlorophenyl-phenylether	0.665	0.691	0.816	0.757	0.767	0.791					0.748	7.8
Fluorene	1.326	1.295	1.521	1.419	1.431	1.490					1.414	6.3
4-Nitroaniline		0.286	0.323	0.291	0.268	0.260					0.286	8.5
4,6-Dinitro-2-methylphenol		0.112	0.142	0.130	0.129	0.133					0.129	8.3
N-Nitrosodiphenylamine	0.542	0.538	0.609	0.566	0.574	0.589					0.569	4.8
4-Bromophenyl-phenylether	0.192	0.195	0.222	0.200	0.207	0.222					0.206	6.3
Hexachlorobenzene	0.185	0.195	0.216	0.202	0.206	0.208					0.202	5.4
Pentachlorophenol		0.054	0.081	0.074	0.084	0.089					0.077	17.6
Phenanthrene	0.922	0.901	1.034	0.963	0.967	0.992					0.963	5.0
Anthracene	0.931	0.941	1.074	0.992	1.004	1.003					0.991	5.2
Carbazole	0.865	0.856	0.942	0.850	0.833	0.812					0.860	5.2
Di-n-butylphthalate	1.109	1.054	1.213	1.105	1.109	1.108					1.116	4.7
Fluoranthene	1.149	1.164	1.334	1.199	1.169	1.165					1.197	5.8
Pyrene	0.993	1.019	1.110	1.056	1.062	1.135					1.062	5.0
Butylbenzylphthalate	0.430	0.448	0.487	0.457	0.462	0.470					0.459	4.2
3,3´-Dichlorobenzidine	0.367	0.382	0.399	0.362	0.343	0.340					0.365	6.2
Benzo(a)anthracene	1.098	1.099	1.213	1.119	1.136	1.159					1.137	3.9
Chrysene	0.931	0.907	1.048	0.979	0.999	1.011					0.979	5.3
Bis(2-ethylhexyl)phthalate	0.616	0.632	0.736	0.701	0.726	0.752					0.694	8.2
Di-n-octylphthalate	1.177	1.218	1.362	1.282	1.399	1.463					1.317	8.4

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

6 - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: N1943 SAS No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date(s): 09/26/2014 09/26/2014

Calibration Times: 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B9501.D RRF010 = S6B9502.D RRF025 = S6B9499.D RRF040 = S6B9503.D RRF060 = S6B9504.D
RRF080 = S6B9500.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Benzo(b)fluoranthene	1.103	1.103	1.266	1.150	1.238	1.289					1.191	7.0
Benzo(k)fluoranthene	1.090	1.052	1.169	1.139	1.146	1.173					1.128	4.2
Benzo(a)pyrene	1.027	1.019	1.142	1.076	1.081	1.107					1.075	4.4
Indeno(1,2,3-cd)pyrene	0.965	0.974	1.132	1.158	0.970	1.174					1.062	9.6
Dibenzo(a,h)anthracene	1.008	0.956	1.081	1.039	0.912	0.987					0.997	6.0
Benzo(g,h,i)perylene	0.958	0.984	1.084	1.014	0.880	0.961					0.980	6.9
1,1´-Biphenyl	1.329	1.319	1.538	1.393	1.423	1.510					1.419	6.4
1,2,4,5-Tetrachlorobenzene	0.533	0.561	0.595	0.554	0.553	0.597					0.565	4.4
Acetophenone	2.027	2.011	2.315	2.242	2.204	2.182					2.164	5.6
Atrazine	0.185	0.207	0.212	0.216	0.212	0.215					0.208	5.6
Benzaldehyde	1.284	1.155	0.748	0.532	0.337						0.811	49.6
Caprolactam	0.122	0.113	0.137	0.123	0.109	0.095					0.116	12.3

6 - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: N1943 SAS No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date(s): 09/26/2014 09/26/2014

Calibration Times: 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B9501.D RRF010 = S6B9502.D RRF025 = S6B9499.D RRF040 = S6B9503.D RRF060 = S6B9504.D
RRF080 = S6B9500.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Nitrobenzene-d5	0.418	0.423	0.483	0.447	0.450	0.470					0.448	5.7
2-Fluorobiphenyl	1.245	1.202	1.372	1.303	1.282	1.367					1.295	5.2
Terphenyl-d14	0.649	0.677	0.768	0.710	0.731	0.762					0.716	6.6
Phenol-d5	1.402	1.511	1.761	1.762	1.705	1.680					1.637	9.0
2-Fluorophenol	1.002	1.110	1.309	1.263	1.224	1.235					1.190	9.5
2,4,6-Tribromophenol	0.086	0.081	0.096	0.093	0.093	0.095					0.091	6.4

Data File: \\avogadro\organics\S6.I\140926A.B\S6B9499.d
Report Date: 29-Sep-2014 10:23

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\140926A.B\S6B9499.d
Lab Smp Id: SSTD0256L Client Smp ID: SSTD0256L
Inj Date : 26-SEP-2014 16:51
Operator : TM   SRC: TM Inst ID: S6.i
Smp Info : SSTD0256L,SSTD0256L
Misc Info : 2,3
Comment   :
Method   : \\avogadro\organics\S6.I\140926A.B\S6_8270C_N.m
Meth Date : 29-Sep-2014 10:08 tmcdaniel Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET102

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
$	109	1,4-Dioxane-d8	96	1.322	1.322	(0.325)	56456	25.0000	28
	108	1,4-Dioxane	58	1.340	1.340	(0.330)	32412	25.0000	26
	1	N-Nitrosodimethylamine	74	1.563	1.563	(0.384)	95800	25.0000	28
	143	Tetramethyllead	253	1.569	1.569	(0.386)	33158	25.0000	26
	2	Pyridine	79	1.581	1.581	(0.389)	164767	25.0000	26
$	3	2-Fluorophenol	112	3.020	3.020	(0.743)	157457	25.0000	27
	101	Benzaldehyde	77	3.690	3.690	(0.908)	90053	25.0000	23
	7	Aniline	66	3.802	3.802	(0.935)	102592	25.0000	26
$	5	Phenol-d5	99	3.931	3.925	(0.967)	211929	25.0000	27
	6	Phenol	94	3.943	3.937	(0.970)	213307	25.0000	27
	8	bis(2-Chloroethyl)Ether	63	3.860	3.860	(0.949)	104033	25.0000	27
	10	2-Chlorophenol	128	3.943	3.943	(0.970)	162212	25.0000	26
	11	1,3-Dichlorobenzene	146	4.013	4.013	(0.987)	178490	25.0000	26
*	12	1,4-Dichlorobenzene-d4	152	4.066	4.066	(1.000)	192508	40.0000	
	13	1,4-Dichlorobenzene	146	4.084	4.084	(1.004)	185856	25.0000	27
	117	2-Ethyl-1-hexanol	57	4.166	4.166	(1.025)	175146	25.0000	27
	15	Benzyl Alcohol	108	4.248	4.248	(1.045)	113284	25.0000	26
	16	1,2-Dichlorobenzene	146	4.207	4.207	(1.035)	173561	25.0000	26
	18	2,2'-oxybis(1-Chloropropane)	45	4.330	4.330	(1.065)	142185	25.0000	26
	17	2-Methylphenol	108	4.413	4.413	(1.085)	159616	25.0000	27

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	99 Acetophenone	105	4.430	4.430	(1.090)	278546	25.0000	27
	19 N-Nitroso-di-n-propylamine	70	4.448	4.442	(1.094)	147568	25.0000	27(Q)
	20 4-Methylphenol	108	4.565	4.565	(1.123)	169828	25.0000	28
	21 Hexachloroethane	117	4.489	4.489	(1.104)	79496	25.0000	26
$	22 Nitrobenzene-d5	82	4.560	4.559	(0.885)	217277	25.0000	27
	23 Nitrobenzene	77	4.577	4.577	(0.888)	297856	25.0000	29
	24 Isophorone	82	4.789	4.789	(0.929)	365615	25.0000	27
	25 2-Nitrophenol	139	4.847	4.847	(0.941)	102649	25.0000	27
	26 2,4-Dimethylphenol	107	4.965	4.959	(0.964)	217368	25.0000	28
	144 Tetraethyllead	237	4.900	4.900	(1.205)	92177	25.0000	27
	27 bis(2-Chloroethoxy)methane	93	4.977	4.983	(0.966)	217073	25.0000	27
	28 Benzoic Acid	105	5.135	5.135	(0.997)	27572	25.0000	14(aQ)
	29 2,4-Dichlorophenol	162	5.118	5.112	(0.993)	156852	25.0000	27
	30 1,2,4-Trichlorobenzene	180	5.106	5.106	(0.991)	174267	25.0000	26
*	31 Naphthalene-d8	136	5.153	5.153	(1.000)	719549	40.0000	
	32 Naphthalene	128	5.171	5.171	(1.003)	466408	25.0000	26
	115 alpha-Terpineol	59	5.200	5.200	(1.009)	142220	25.0000	27
	33 4-Chloroaniline	127	5.253	5.253	(1.019)	204485	25.0000	27
	34 Hexachlorobutadiene	225	5.270	5.270	(1.023)	123732	25.0000	26
	102 Caprolactam	113	5.570	5.570	(1.081)	61421	25.0000	29
	35 4-Chloro-3-Methylphenol	107	5.741	5.740	(1.114)	192493	25.0000	27
	36 2-Methylnaphthalene	142	5.746	5.746	(1.115)	492901	25.0000	27
	114 1-Methylnaphthalene	142	5.823	5.823	(1.130)	333194	25.0000	27
	38 Hexachlorocyclopentadiene	237	5.870	5.870	(0.890)	96319	25.0000	26
	112 1,2,4,5-Tetrachlorobenzene	216	5.882	5.881	(0.891)	188463	25.0000	26
	39 2,4,6-Trichlorophenol	196	6.028	6.022	(0.914)	135417	25.0000	27
	40 2,4,5-Trichlorophenol	196	6.099	6.093	(0.924)	141576	25.0000	27
$	41 2-Fluorobiphenyl	172	6.058	6.052	(0.918)	434697	25.0000	26
	98 1,1'-Biphenyl	154	6.134	6.134	(0.930)	487483	25.0000	27
	42 2-Chloronaphthalene	162	6.146	6.146	(0.931)	353804	25.0000	26
	43 2-Nitroaniline	65	6.269	6.269	(0.950)	148168	25.0000	28
	44 Dimethylphthalate	163	6.410	6.410	(0.972)	475744	25.0000	27
	45 2,6-Dinitrotoluene	165	6.463	6.463	(0.980)	113923	25.0000	28
	46 Acenaphthylene	152	6.481	6.481	(0.982)	607205	25.0000	27
	47 3-Nitroaniline	138	6.616	6.616	(1.003)	117882	25.0000	28
*	48 Acenaphthene-d10	164	6.598	6.598	(1.000)	507080	40.0000	
	49 Acenaphthene	153	6.628	6.628	(1.004)	392103	25.0000	27
	50 2,4-Dinitrophenol	184	6.704	6.704	(1.016)	46919	25.0000	26(M)M6 TM 09/29
	51 4-Nitrophenol	109	6.892	6.886	(1.045)	78793	25.0000	25(Q)
	53 2,4-Dinitrotoluene	165	6.798	6.792	(1.030)	153292	25.0000	27
	52 Dibenzofuran	168	6.769	6.769	(1.026)	537435	25.0000	27
	110 2,3,4,6-Tetrachlorophenol	232	6.910	6.910	(1.047)	126785	25.0000	28
	54 Diethylphthalate	149	6.980	6.980	(1.058)	481807	25.0000	28
	56 4-Chlorophenyl-phenylether	204	7.057	7.051	(1.069)	258481	25.0000	27
	55 Fluorene	166	7.051	7.051	(1.069)	482119	25.0000	27
	57 4-Nitroaniline	138	7.127	7.121	(1.080)	102352	25.0000	28
	58 4,6-Dinitro-2-methylphenol	198	7.133	7.133	(0.913)	99008	25.0000	27
	59 N-Nitrosodiphenylamine	169	7.168	7.168	(0.917)	425812	25.0000	27
	97 Azobenzene	77	7.186	7.186	(0.920)	595823	25.0000	27
$	60 2,4,6-Tribromophenol	330	7.262	7.262	(0.929)	66822	25.0000	26
	61 4-Bromophenyl-phenylether	248	7.450	7.450	(0.953)	154932	25.0000	27
	62 Hexachlorobenzene	284	7.491	7.491	(0.959)	151074	25.0000	27
	100 Atrazine	200	7.621	7.621	(0.975)	148417	25.0000	26
	111 Pentachloronitrobenzene	237	7.674	7.674	(0.982)	82015	25.0000	27

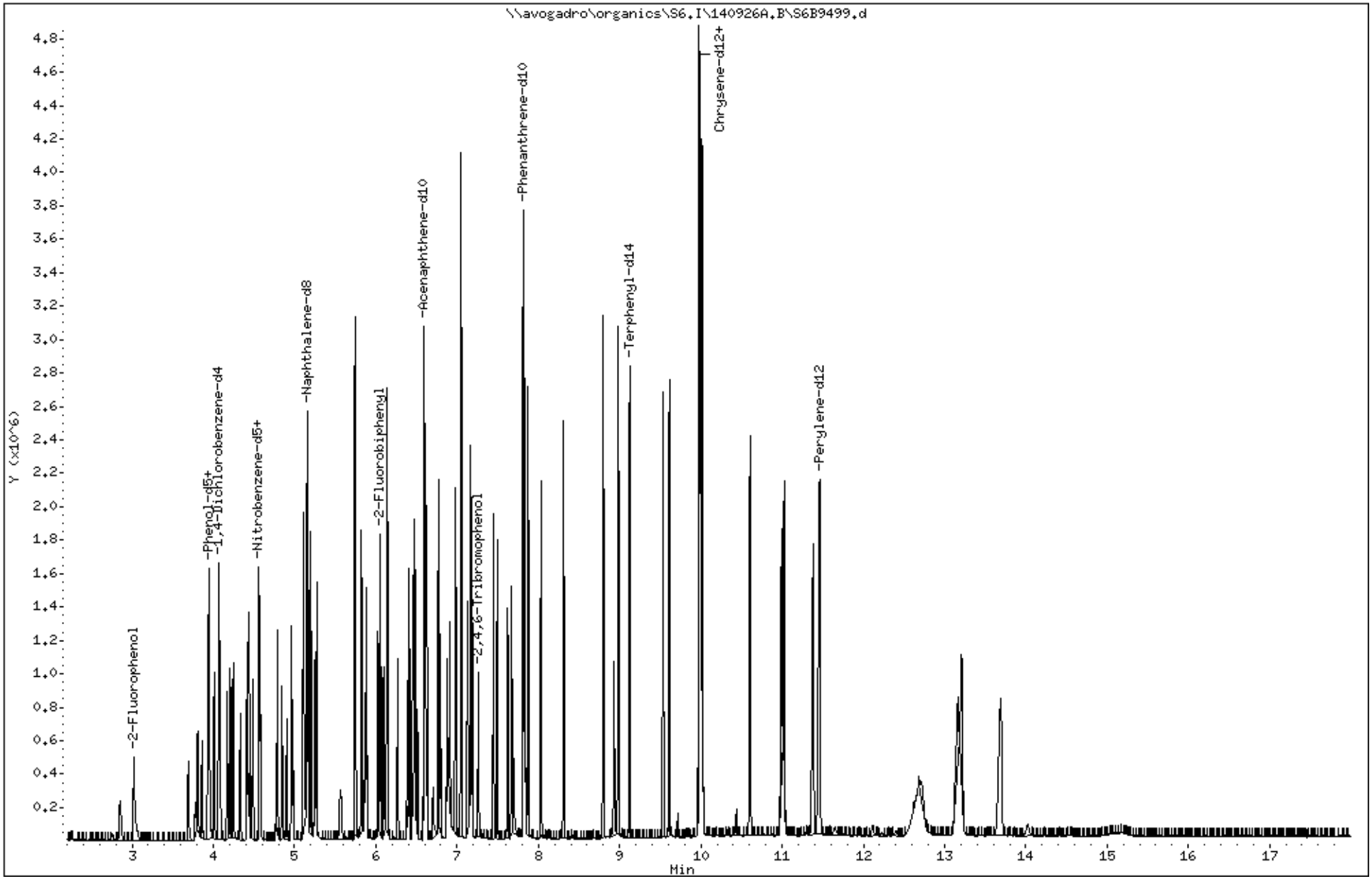
Data File: \\avogadro\organics\S6.I\140926A.B\S6B9499.d
Report Date: 29-Sep-2014 10:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	63 Pentachlorophenol	266	7.697	7.697	(0.985)	56804	25.0000	26
*	64 Phenanthrene-d10	188	7.815	7.815	(1.000)	1118926	40.0000	
	65 Phenanthrene	178	7.832	7.832	(1.002)	723240	25.0000	27
	66 Anthracene	178	7.873	7.873	(1.008)	751275	25.0000	27
	67 Carbazole	167	8.032	8.032	(1.028)	658792	25.0000	27
	68 Di-n-butylphthalate	149	8.314	8.314	(1.064)	848398	25.0000	27
	69 Fluoranthene	202	8.802	8.802	(1.126)	933100	25.0000	28
	70 Benzidine	184	8.931	8.931	(0.894)	303874	25.0000	26
	71 Pyrene	202	8.984	8.984	(0.899)	951492	25.0000	26
$	72 Terphenyl-d14	244	9.125	9.119	(0.913)	658547	25.0000	27
	73 Butylbenzylphthalate	149	9.536	9.536	(0.954)	417381	25.0000	26
	74 3,3'-Dichlorobenzidine	252	9.977	9.977	(0.998)	341564	25.0000	27
	75 Benzo(a)anthracene	228	9.983	9.977	(0.999)	1039899	25.0000	27
	78 bis(2-Ethylhexyl)phthalate	149	10.024	10.024	(1.003)	630366	25.0000	26
*	76 Chrysene-d12	240	9.994	9.994	(1.000)	1371232	40.0000	
	77 Chrysene	228	10.012	10.012	(1.002)	897888	25.0000	27
	79 Di-n-octylphthalate	149	10.606	10.605	(0.925)	1081775	25.0000	26
	80 Benzo(b)fluoranthene	252	10.993	10.993	(0.959)	1005251	25.0000	26
	81 Benzo(k)fluoranthene	252	11.029	11.028	(0.962)	928067	25.0000	26
	82 Benzo(a)pyrene	252	11.381	11.381	(0.993)	907044	25.0000	26
*	83 Perylene-d12	264	11.463	11.463	(1.000)	1270769	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	13.155	13.161	(1.148)	898902	25.0000	27
	85 Dibenzo(a,h)anthracene	278	13.214	13.208	(1.153)	858205	25.0000	27
	86 Benzo(g,h,i)perylene	276	13.684	13.690	(1.194)	860601	25.0000	28

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

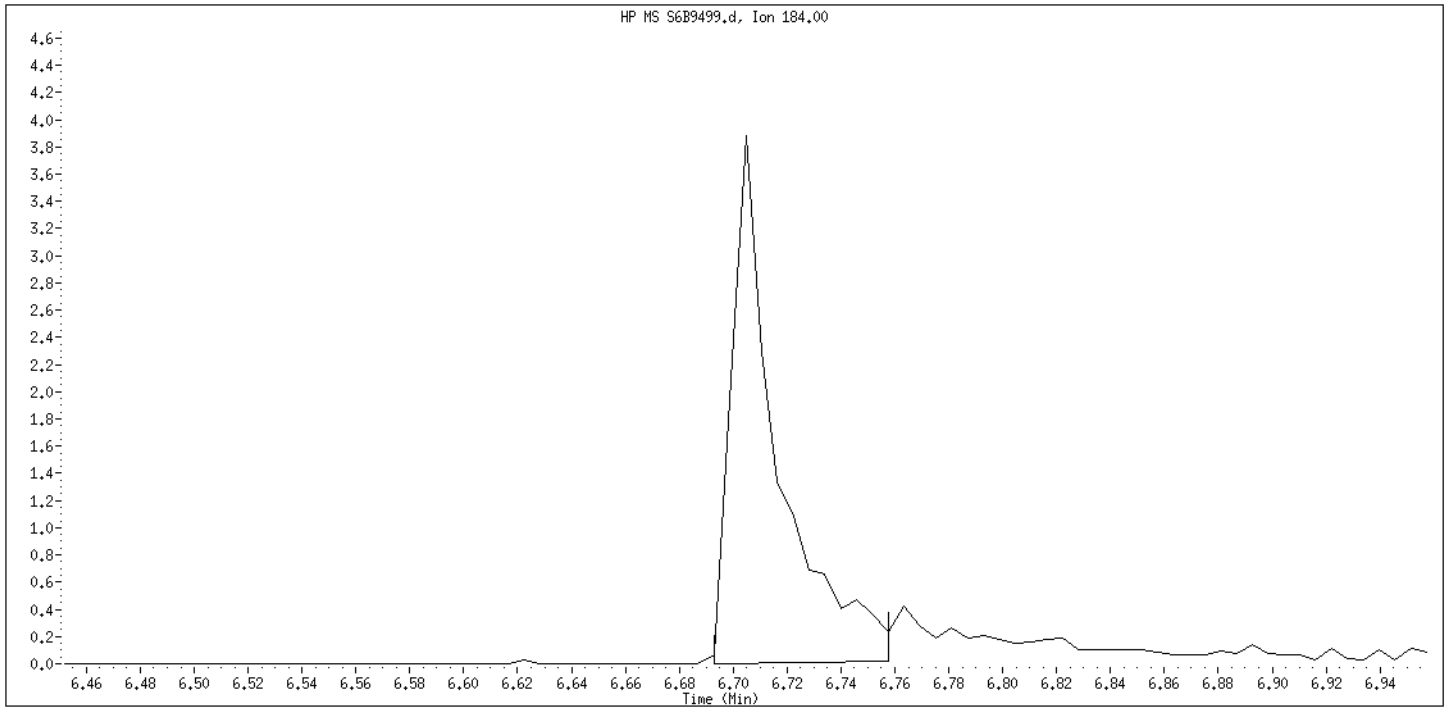
Data File: \\avogadro\organics\S6.I\140926A.B\S6B9499.d
Date : 26-SEP-2014 16:51
Client ID: SSTD0256L
Instrument: S6.i
Sample Info: SSTD0256L,SSTD0256L
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: Rxi-5Sil MS
Column diameter: 0.25



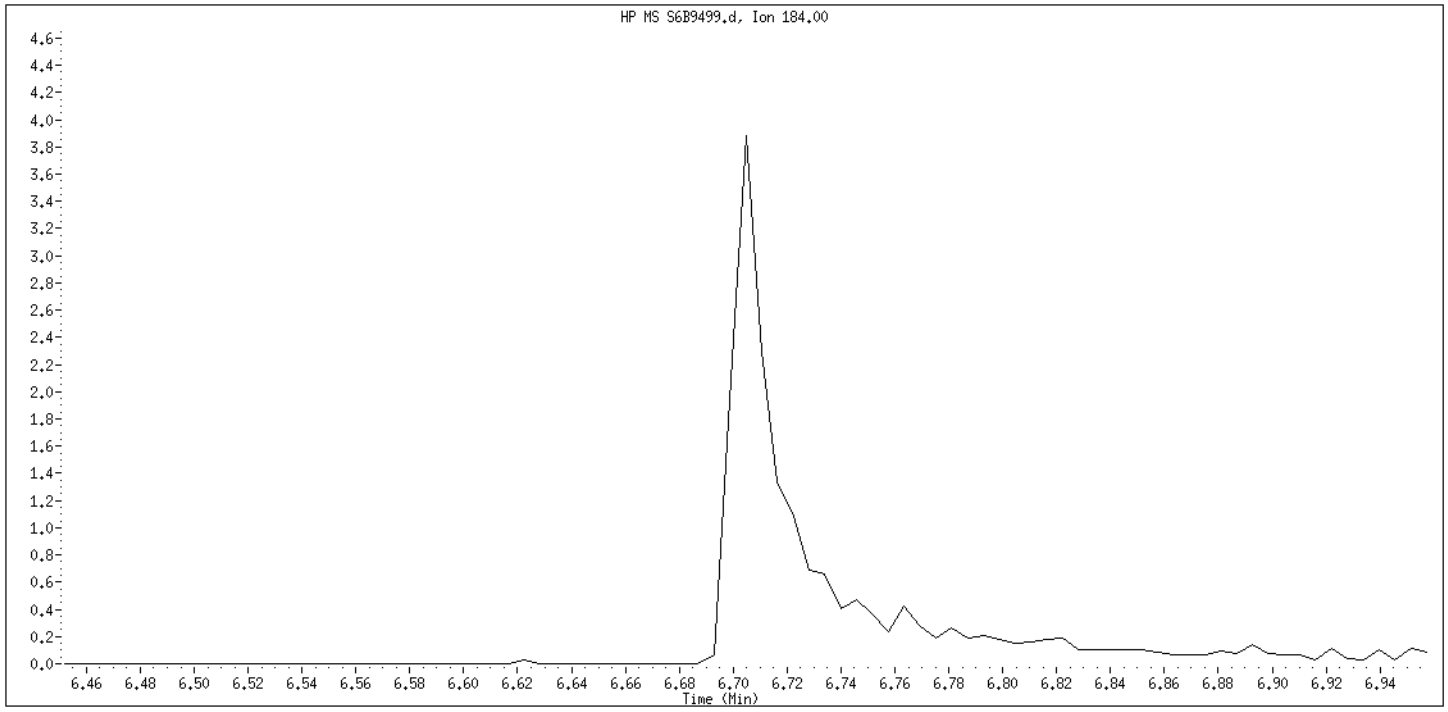
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9499.d

Lab ID: SSTD0256L Client ID: SSTD0256L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 16:51 Operator: TM SRC: TM

Manual Integration 2,4-Dinitrophenol Ret Time: 6.705 min, Range: 6.693 to 6.758 min Response: 46919



Original Integration 2,4-Dinitrophenol Ret Time: 0.000 min, Range: 0.000 to 0.000 min Response: 0



Data File: \\avogadro\organics\S6.I\140926A.B\S6B9500.d
Report Date: 29-Sep-2014 10:23

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\140926A.B\S6B9500.d
Lab Smp Id: SSTD0806L Client Smp ID: SSTD0806L
Inj Date : 26-SEP-2014 17:14
Operator : TM   SRC: TM Inst ID: S6.i
Smp Info : SSTD0806L,SSTD0806L
Misc Info : 1,6
Comment   :
Method   : \\avogadro\organics\S6.I\140926A.B\S6_8270C_N.m
Meth Date : 29-Sep-2014 10:08 tmcdaniel Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET102

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
$ 109 1,4-Dioxane-d8	96	1.416	1.322	(0.347)	168177	80.0000	72(QM)M6 TM 09/29	
108 1,4-Dioxane	58	1.434	1.340	(0.352)	118248	80.0000	80(A)	
1 N-Nitrosodimethylamine	74	1.680	1.563	(0.412)	354497	80.0000	86(AH)	
143 Tetramethyllead	253	1.533	1.569	(0.376)	108052	80.0000	71	
2 Pyridine	79	1.692	1.581	(0.415)	605895	80.0000	82(A)	
$ 3 2-Fluorophenol	112	3.049	3.020	(0.748)	564462	80.0000	83	
101 Benzaldehyde	77	3.707	3.690	(0.909)	107323	80.0000	23	
7 Aniline	66	3.825	3.802	(0.938)	389866	80.0000	84(A)	
$ 5 Phenol-d5	99	3.931	3.925	(0.964)	768052	80.0000	82	
6 Phenol	94	3.942	3.937	(0.967)	772233	80.0000	83(A)	
8 bis(2-Chloroethyl)Ether	63	3.878	3.860	(0.951)	391459	80.0000	84(A)	
10 2-Chlorophenol	128	3.954	3.943	(0.970)	615654	80.0000	84(A)	
11 1,3-Dichlorobenzene	146	4.025	4.013	(0.987)	672454	80.0000	84(A)	
* 12 1,4-Dichlorobenzene-d4	152	4.078	4.066	(1.000)	228586	40.0000	(Q)	
13 1,4-Dichlorobenzene	146	4.095	4.084	(1.004)	690870	80.0000	84(A)	
117 2-Ethyl-1-hexanol	57	4.189	4.166	(1.027)	678166	80.0000	88(A)	
15 Benzyl Alcohol	108	4.271	4.248	(1.048)	409230	80.0000	81(A)	
16 1,2-Dichlorobenzene	146	4.219	4.207	(1.035)	663480	80.0000	85(A)	
18 2,2'-oxybis(1-Chloropropane)	45	4.342	4.330	(1.065)	546340	80.0000	85(A)	
17 2-Methylphenol	108	4.424	4.413	(1.085)	556573	80.0000	80(A)	

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	99 Acetophenone	105	4.454	4.430	(1.092)	997609	80.0000	81(A)
	19 N-Nitroso-di-n-propylamine	70	4.471	4.442	(1.097)	543055	80.0000	83(A)
	20 4-Methylphenol	108	4.565	4.565	(1.120)	595923	80.0000	84(A)
	21 Hexachloroethane	117	4.495	4.489	(1.102)	312215	80.0000	87(A)
$	22 Nitrobenzene-d5	82	4.577	4.559	(0.887)	793572	80.0000	84
	23 Nitrobenzene	77	4.595	4.577	(0.891)	892702	80.0000	74(M)M6 TM 09/29
	24 Isophorone	82	4.806	4.789	(0.932)	1275964	80.0000	81(A)
	25 2-Nitrophenol	139	4.859	4.847	(0.942)	352079	80.0000	80(A)
	26 2,4-Dimethylphenol	107	4.971	4.959	(0.964)	745295	80.0000	81(A)
	144 Tetraethyllead	237	4.906	4.900	(1.203)	316031	80.0000	78
	27 bis(2-Chloroethoxy)methane	93	4.994	4.983	(0.968)	778435	80.0000	83(A)
	28 Benzoic Acid	105	5.188	5.135	(1.006)	264804	80.0000	120(AQ)
	29 2,4-Dichlorophenol	162	5.118	5.112	(0.992)	584296	80.0000	85(A)
	30 1,2,4-Trichlorobenzene	180	5.118	5.106	(0.992)	659322	80.0000	84(A)
*	31 Naphthalene-d8	136	5.159	5.153	(1.000)	844981	40.0000	
	32 Naphthalene	128	5.176	5.171	(1.003)	1745813	80.0000	85(A)
	115 alpha-Terpineol	59	5.212	5.200	(1.010)	532477	80.0000	85(A)
	33 4-Chloroaniline	127	5.264	5.253	(1.021)	736814	80.0000	83(A)
	34 Hexachlorobutadiene	225	5.276	5.270	(1.023)	470475	80.0000	85(A)
	102 Caprolactam	113	5.635	5.570	(1.092)	160344	80.0000	65(H)
	35 4-Chloro-3-Methylphenol	107	5.752	5.740	(1.115)	716761	80.0000	85(A)
	36 2-Methylnaphthalene	142	5.752	5.746	(1.115)	1800452	80.0000	83(A)
	114 1-Methylnaphthalene	142	5.834	5.823	(1.131)	1192266	80.0000	82(A)
	38 Hexachlorocyclopentadiene	237	5.876	5.870	(0.890)	447251	80.0000	110(A)
	112 1,2,4,5-Tetrachlorobenzene	216	5.893	5.881	(0.892)	676076	80.0000	84(A)
	39 2,4,6-Trichlorophenol	196	6.034	6.022	(0.914)	465255	80.0000	82(A)
	40 2,4,5-Trichlorophenol	196	6.099	6.093	(0.923)	479689	80.0000	82(A)
$	41 2-Fluorobiphenyl	172	6.064	6.052	(0.918)	1549500	80.0000	84
	98 1,1'-Biphenyl	154	6.146	6.134	(0.931)	1711797	80.0000	85(A)
	42 2-Chloronaphthalene	162	6.158	6.146	(0.932)	1309546	80.0000	86(A)
	43 2-Nitroaniline	65	6.281	6.269	(0.951)	461376	80.0000	78
	44 Dimethylphthalate	163	6.428	6.410	(0.973)	1542630	80.0000	79
	45 2,6-Dinitrotoluene	165	6.481	6.463	(0.981)	369031	80.0000	80
	46 Acenaphthylene	152	6.492	6.481	(0.983)	2042629	80.0000	82(A)
	47 3-Nitroaniline	138	6.633	6.616	(1.004)	382902	80.0000	80(A)
*	48 Acenaphthene-d10	164	6.604	6.598	(1.000)	566653	40.0000	
	49 Acenaphthene	153	6.633	6.628	(1.004)	1379135	80.0000	84(A)
	50 2,4-Dinitrophenol	184	6.716	6.704	(1.017)	176381	80.0000	86(AM)M6 TM 09/29
	51 4-Nitrophenol	109	6.892	6.886	(1.044)	308561	80.0000	87(A)
	53 2,4-Dinitrotoluene	165	6.810	6.792	(1.031)	486173	80.0000	77
	52 Dibenzofuran	168	6.780	6.769	(1.027)	1804864	80.0000	81(A)
	110 2,3,4,6-Tetrachlorophenol	232	6.915	6.910	(1.047)	389483	80.0000	78
	54 Diethylphthalate	149	6.998	6.980	(1.060)	1551624	80.0000	79
	56 4-Chlorophenyl-phenylether	204	7.062	7.051	(1.069)	896852	80.0000	85(A)
	55 Fluorene	166	7.057	7.051	(1.069)	1688780	80.0000	84(A)
	57 4-Nitroaniline	138	7.151	7.121	(1.083)	294566	80.0000	71
	58 4,6-Dinitro-2-methylphenol	198	7.151	7.133	(0.914)	309775	80.0000	82(A)
	59 N-Nitrosodiphenylamine	169	7.180	7.168	(0.918)	1371027	80.0000	83(A)
	97 Azobenzene	77	7.198	7.186	(0.920)	2060041	80.0000	89(A)
$	60 2,4,6-Tribromophenol	330	7.274	7.262	(0.930)	220417	80.0000	84
	61 4-Bromophenyl-phenylether	248	7.462	7.450	(0.954)	516014	80.0000	86(A)
	62 Hexachlorobenzene	284	7.503	7.491	(0.959)	485146	80.0000	82(A)
	100 Atrazine	200	7.644	7.621	(0.977)	500367	80.0000	83(AH)
	111 Pentachloronitrobenzene	237	7.679	7.674	(0.982)	260821	80.0000	81(A)

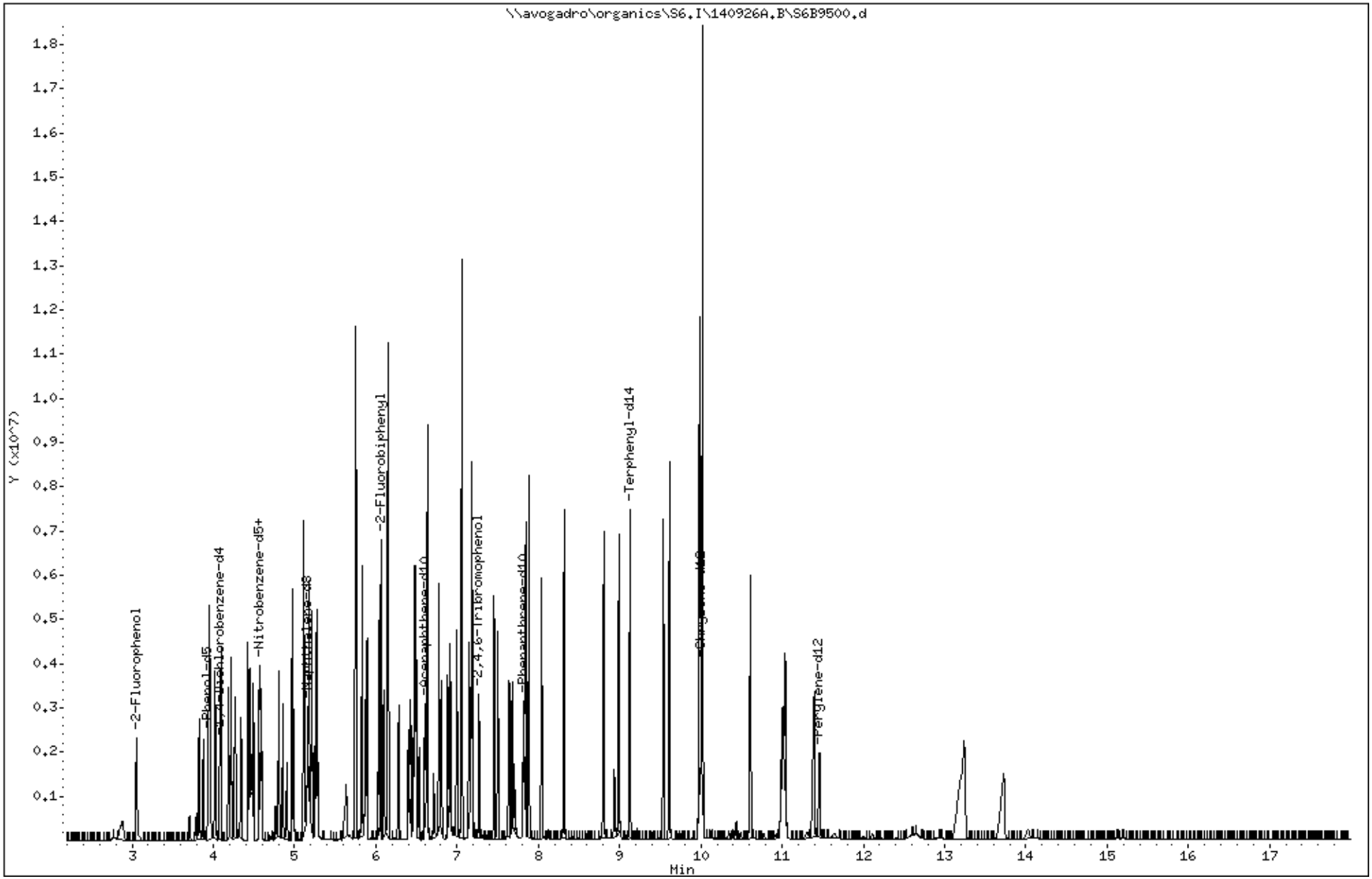
Data File: \\avogadro\organics\S6.I\140926A.B\S6B9500.d
Report Date: 29-Sep-2014 10:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	63 Pentachlorophenol	266	7.709	7.697	(0.986)	206726	80.0000	93(A)
*	64 Phenanthrene-d10	188	7.820	7.815	(1.000)	1164816	40.0000	
	65 Phenanthrene	178	7.844	7.832	(1.003)	2310723	80.0000	82(A)
	66 Anthracene	178	7.885	7.873	(1.008)	2336941	80.0000	81(A)
	67 Carbazole	167	8.044	8.032	(1.029)	1891357	80.0000	76
	68 Di-n-butylphthalate	149	8.320	8.314	(1.064)	2580110	80.0000	79
	69 Fluoranthene	202	8.807	8.802	(1.126)	2713666	80.0000	78
	70 Benzidine	184	8.937	8.931	(0.894)	513106	80.0000	48
	71 Pyrene	202	8.995	8.984	(0.900)	2836880	80.0000	85(A)
$	72 Terphenyl-d14	244	9.131	9.119	(0.913)	1904969	80.0000	85
	73 Butylbenzylphthalate	149	9.542	9.536	(0.954)	1174398	80.0000	82(A)
	74 3,3'-Dichlorobenzidine	252	9.983	9.977	(0.998)	849531	80.0000	74
	75 Benzo(a)anthracene	228	9.988	9.977	(0.999)	2897751	80.0000	82(A)
	78 bis(2-Ethylhexyl)phthalate	149	10.024	10.024	(1.002)	1880382	80.0000	87(A)
*	76 Chrysene-d12	240	10.000	9.994	(1.000)	1249837	40.0000	
	77 Chrysene	228	10.024	10.012	(1.002)	2526539	80.0000	83(A)
	79 Di-n-octylphthalate	149	10.611	10.605	(0.926)	2857876	80.0000	89(A)
	80 Benzo(b)fluoranthene	252	11.011	10.993	(0.961)	2518388	80.0000	86(A)
	81 Benzo(k)fluoranthene	252	11.040	11.028	(0.963)	2292283	80.0000	83(A)
	82 Benzo(a)pyrene	252	11.399	11.381	(0.994)	2162709	80.0000	82(A)
*	83 Perylene-d12	264	11.463	11.463	(1.000)	976770	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	13.191	13.161	(1.151)	2293210	80.0000	88(AM)M6 TM 09/29
	85 Dibenzo(a,h)anthracene	278	13.243	13.208	(1.155)	1928782	80.0000	79
	86 Benzo(g,h,i)perylene	276	13.731	13.690	(1.198)	1877948	80.0000	78

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

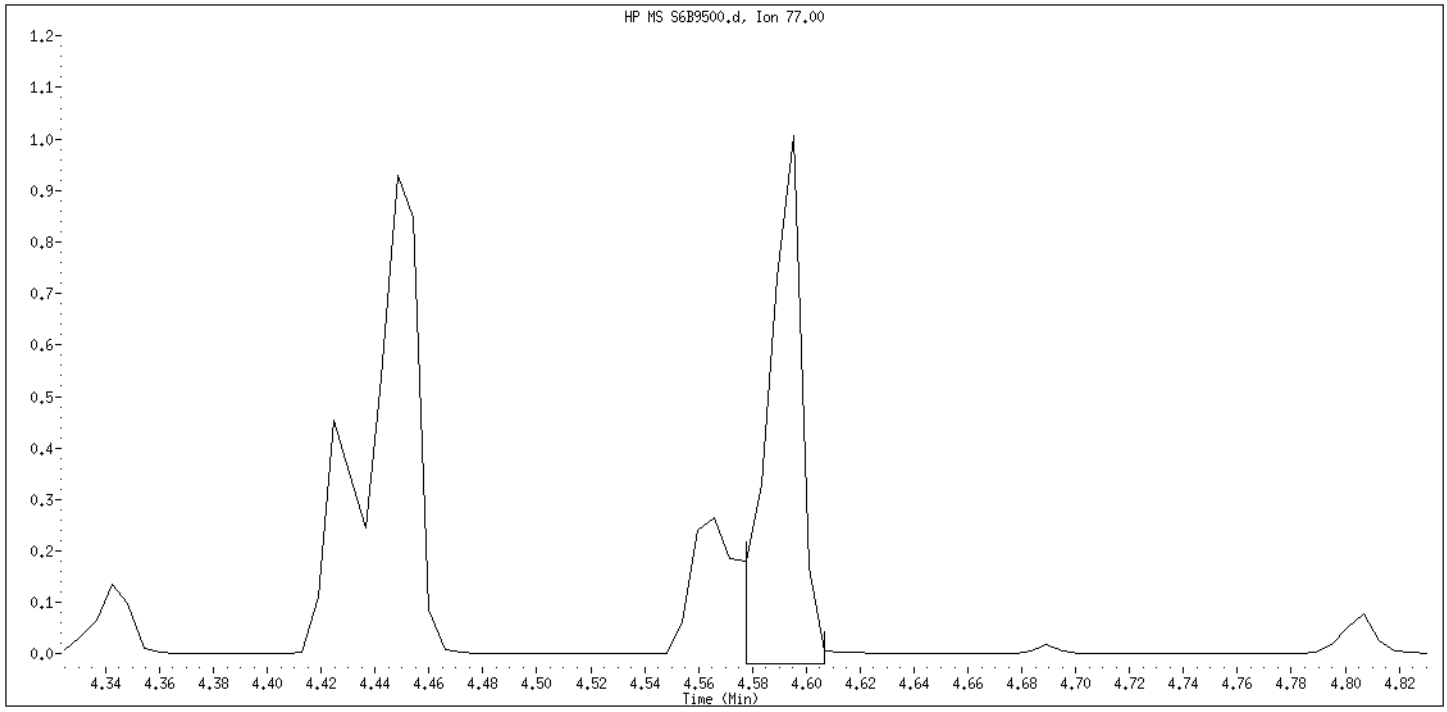
Data File: \\avogadro\organics\S6.I\140926A.B\S6B9500.d
Date : 26-SEP-2014 17:14
Client ID: SSTD0806L
Instrument: S6.i
Sample Info: SSTD0806L,SSTD0806L
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: Rxi-5Sil MS
Column diameter: 0.25



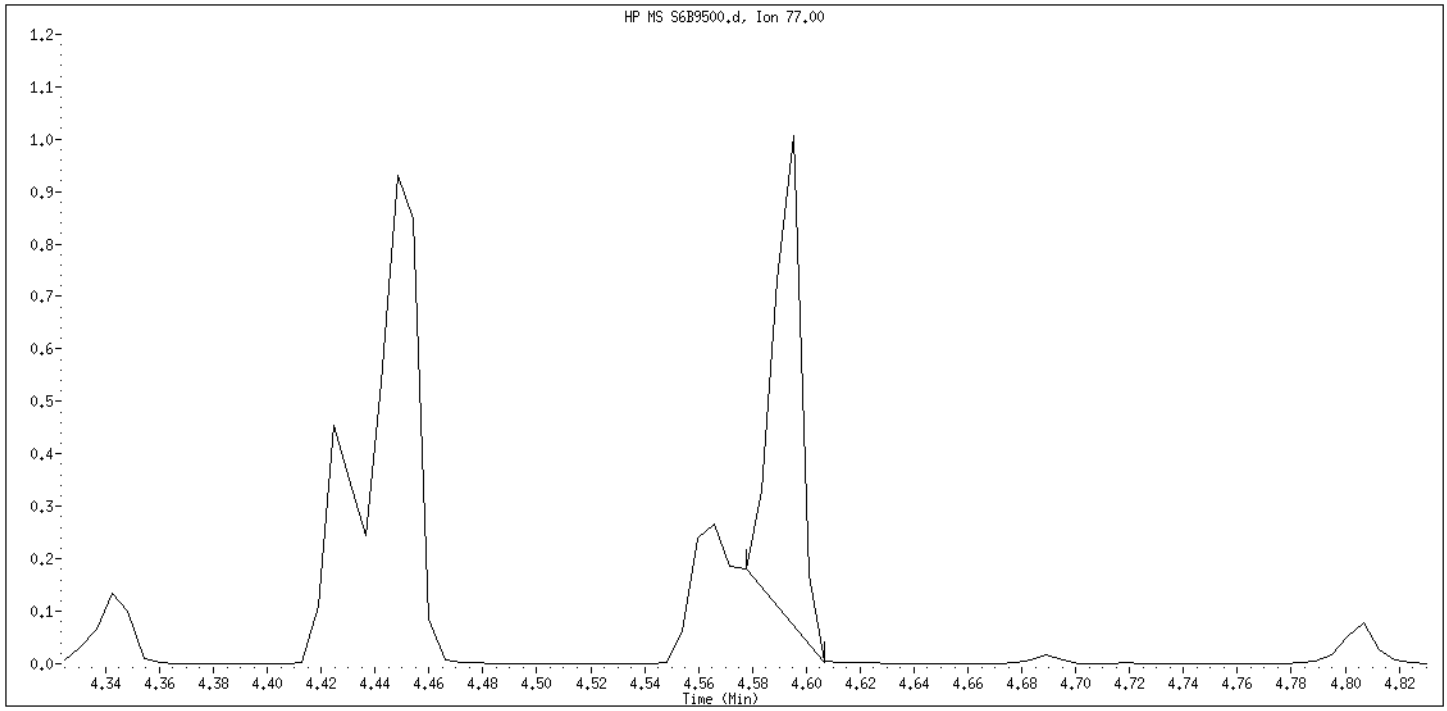
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9500.d

Lab ID: SSTD0806L Client ID: SSTD0806L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 17:14 Operator: TM SRC: TM

Manual Integration Nitrobenzene Ret Time: 4.595 min, Range: 4.578 to 4.607 min Response: 892702



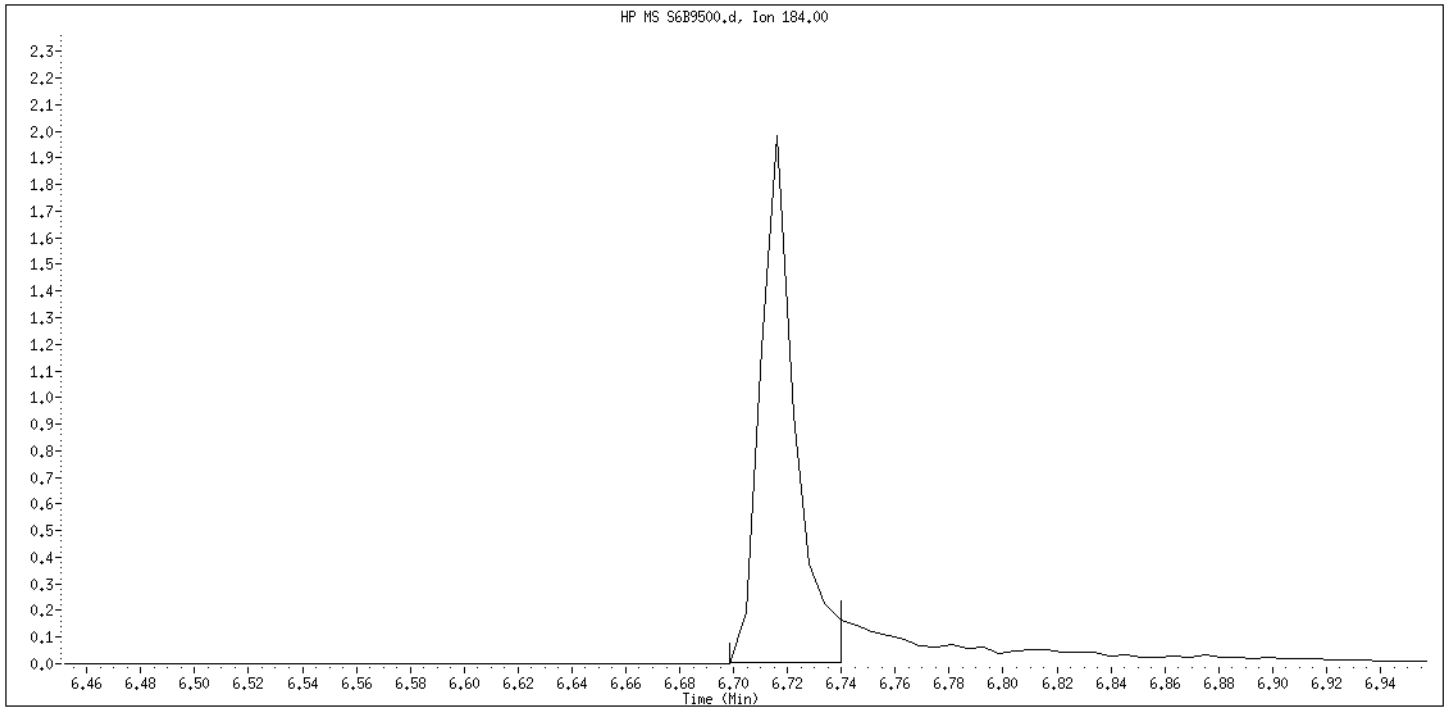
Original Integration Nitrobenzene Ret Time: 4.595 min, Range: 4.578 to 4.607 min Response: 658110



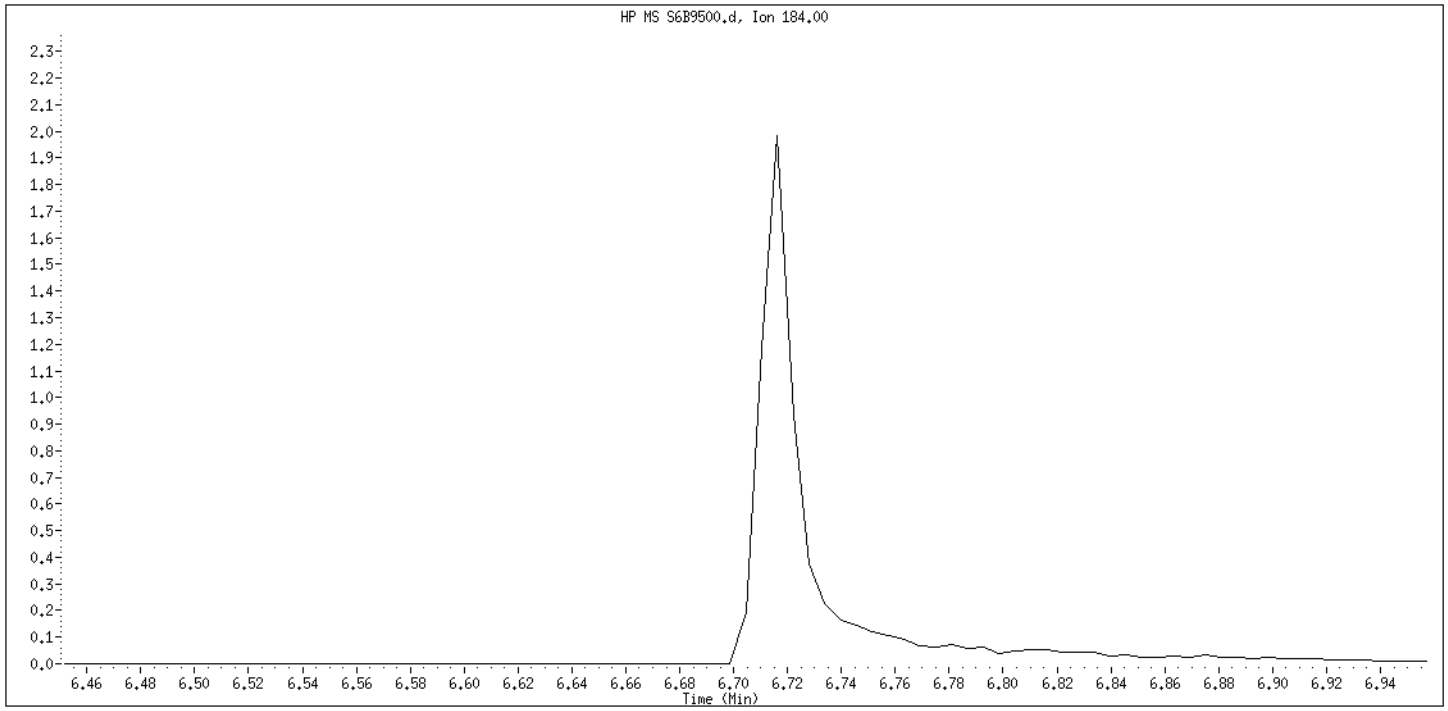
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9500.d

Lab ID: SSTD0806L Client ID: SSTD0806L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 17:14 Operator: TM SRC: TM

Manual Integration 2,4-Dinitrophenol Ret Time: 6.716 min, Range: 6.699 to 6.740 min Response: 176381



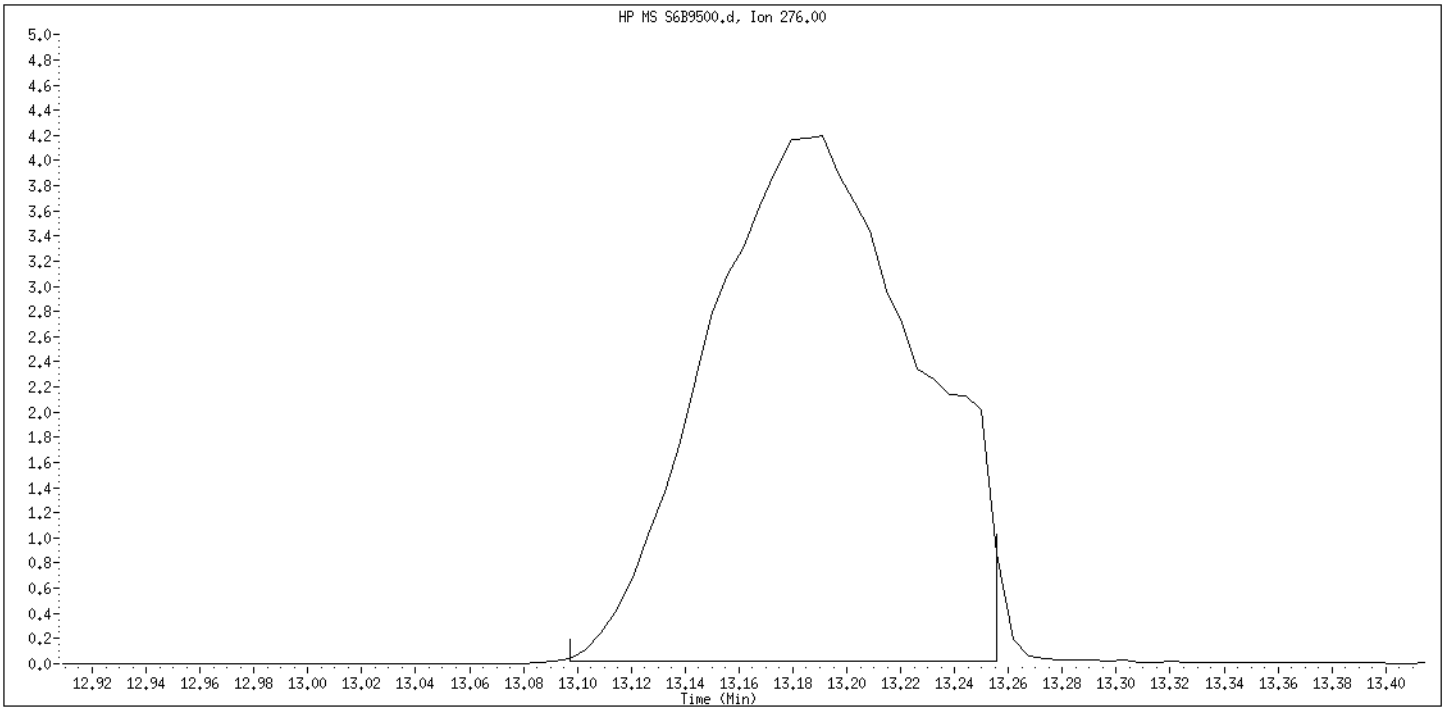
Original Integration 2,4-Dinitrophenol Ret Time: 0.000 min, Range: 0.000 to 0.000 min Response: 0



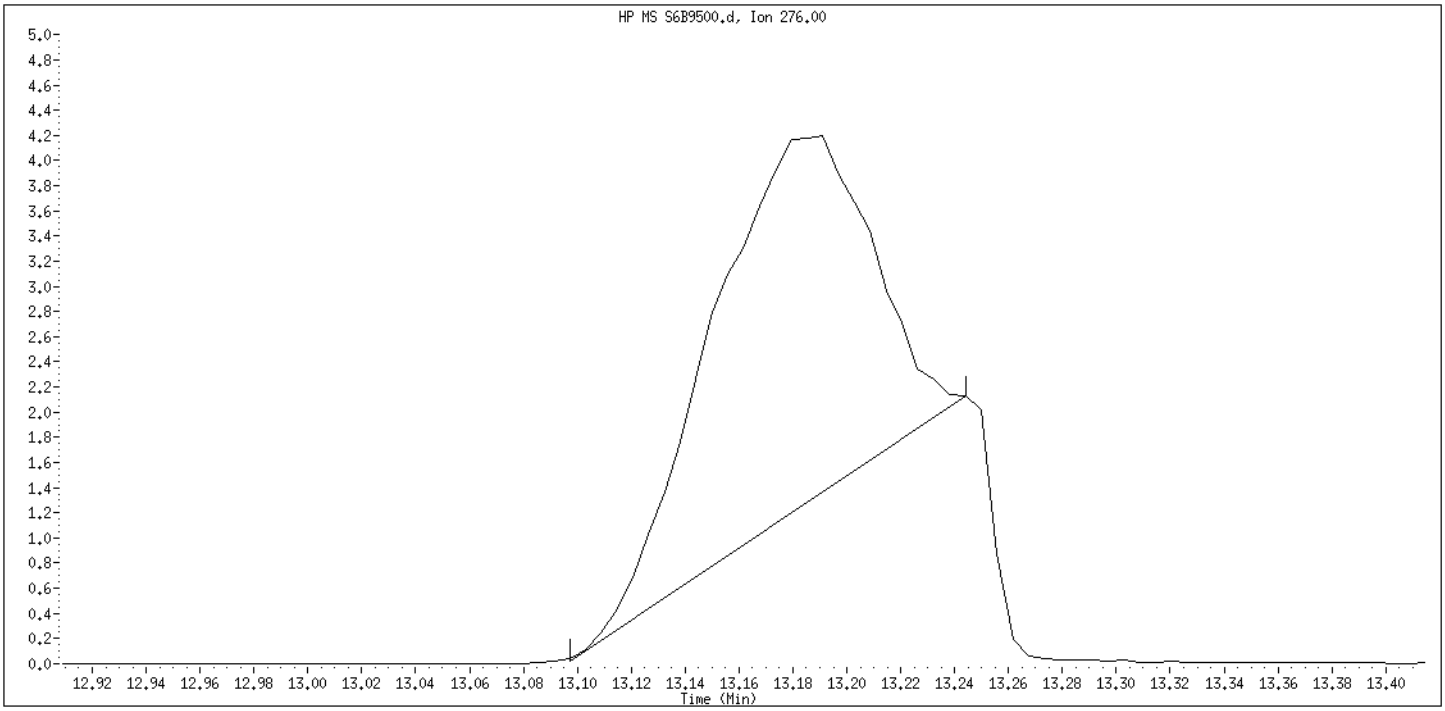
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9500.d

Lab ID: SSTD0806L Client ID: SSTD0806L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 17:14 Operator: TM SRC: TM

Manual Integration Indeno(1,2,3-cd)pyrene Ret Time: 13.191 min, Range: 13.097 to 13.256 min Response: 2293210



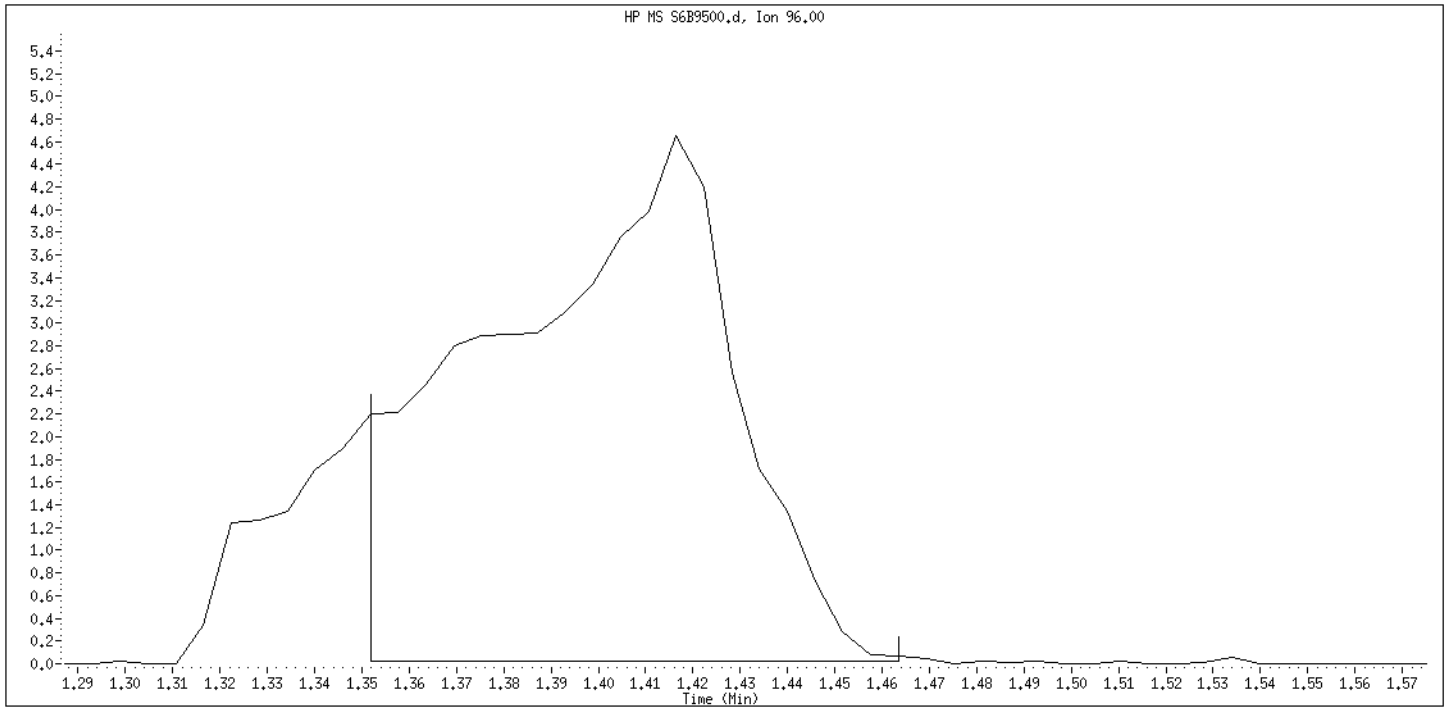
Original Integration Indeno(1,2,3-cd)pyrene Ret Time: 13.191 min, Range: 13.097 to 13.244 min Response: 1229538



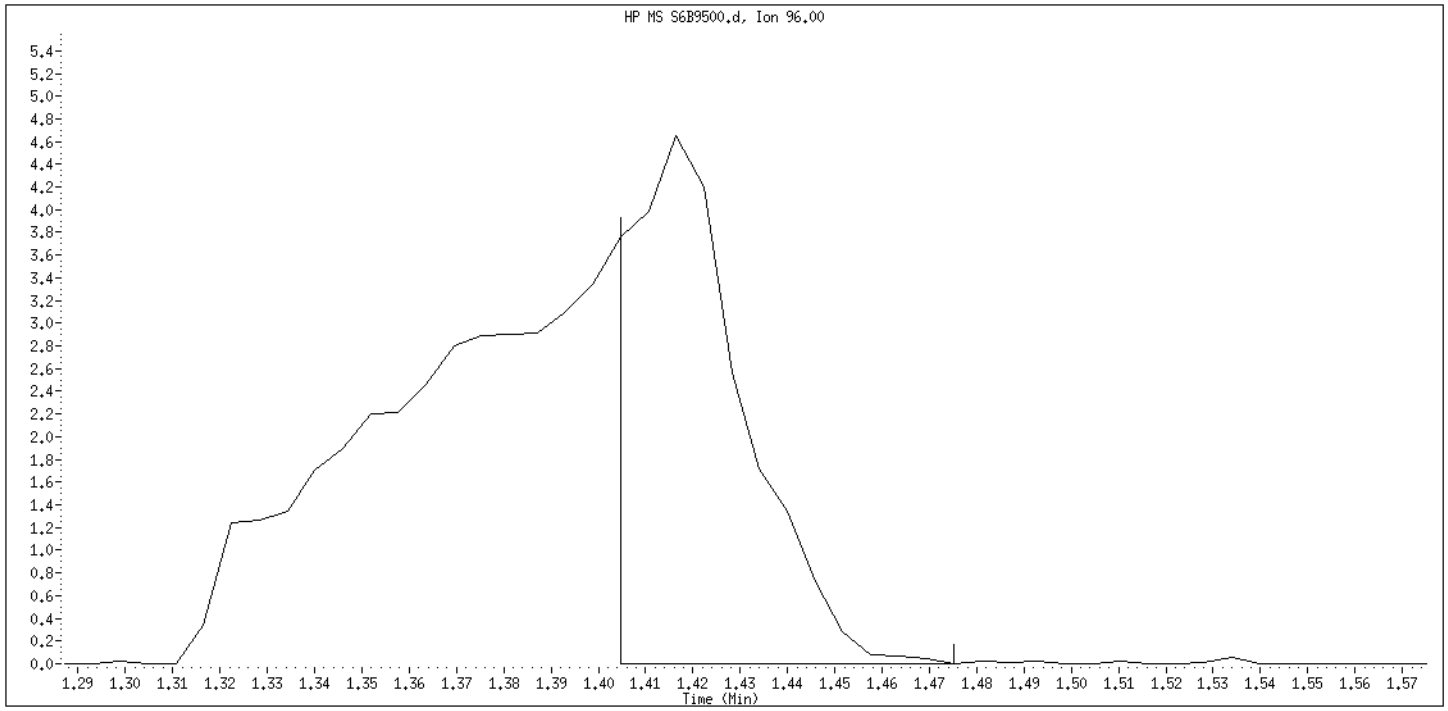
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9500.d

Lab ID: SSTD0806L Client ID: SSTD0806L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 17:14 Operator: TM SRC: TM

Manual Integration 1,4-Dioxane-d8 Ret Time: 1.416 min, Range: 1.352 to 1.463 min Response: 168177



Original Integration 1,4-Dioxane-d8 Ret Time: 1.416 min, Range: 1.405 to 1.475 min Response: 82506



Data File: \\avogadro\organics\S6.I\140926A.B\S6B9501.d
Report Date: 29-Sep-2014 10:23

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\140926A.B\S6B9501.d
Lab Smp Id: SSTD0056L Client Smp ID: SSTD0056L
Inj Date : 26-SEP-2014 17:37
Operator : TM   SRC: TM Inst ID: S6.i
Smp Info : SSTD0056L,SSTD0056L
Misc Info : 1,1
Comment   :
Method   : \\avogadro\organics\S6.I\140926A.B\S6_8270C_N.m
Meth Date : 29-Sep-2014 10:08 tmcdaniel Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET102

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109	1,4-Dioxane-d8	96	1.328	1.322	(0.327)	10562	5.00000	5(a)
	108	1,4-Dioxane	58	1.345	1.340	(0.331)	6364	5.00000	5(a)
	1	N-Nitrosodimethylamine	74	1.575	1.563	(0.387)	16168	5.00000	4(a)
	143	Tetramethyllead	253	1.580	1.569	(0.389)	7945	5.00000	6(aQM)M6 TM 09/29
	2	Pyridine	79	1.586	1.581	(0.390)	30021	5.00000	4(a)
$	3	2-Fluorophenol	112	3.026	3.020	(0.744)	26693	5.00000	4(a)
	101	Benzaldehyde	77	3.690	3.690	(0.908)	34209	5.00000	8(a)
	7	Aniline	66	3.807	3.802	(0.936)	19857	5.00000	4(a)
$	5	Phenol-d5	99	3.937	3.925	(0.968)	37378	5.00000	4(a)
	6	Phenol	94	3.948	3.937	(0.971)	37300	5.00000	4(a)
	8	bis(2-Chloroethyl)Ether	63	3.860	3.860	(0.949)	19959	5.00000	5(a)
	10	2-Chlorophenol	128	3.948	3.943	(0.971)	30427	5.00000	4(a)
	11	1,3-Dichlorobenzene	146	4.013	4.013	(0.987)	34623	5.00000	5(a)
*	12	1,4-Dichlorobenzene-d4	152	4.066	4.066	(1.000)	213212	40.0000	
	13	1,4-Dichlorobenzene	146	4.083	4.084	(1.004)	35477	5.00000	5(a)
	117	2-Ethyl-1-hexanol	57	4.166	4.166	(1.025)	30630	5.00000	4(a)
	15	Benzyl Alcohol	108	4.242	4.248	(1.043)	21804	5.00000	5(a)
	16	1,2-Dichlorobenzene	146	4.207	4.207	(1.035)	33766	5.00000	5(a)
	18	2,2'-oxybis(1-Chloropropane)	45	4.330	4.330	(1.065)	26658	5.00000	4(a)
	17	2-Methylphenol	108	4.412	4.413	(1.085)	30050	5.00000	5(a)

Data File: \\avogadro\organics\S6.I\140926A.B\S6B9501.d
Report Date: 29-Sep-2014 10:23

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	99 Acetophenone	105	4.430	4.430	(1.090)	54035	5.00000	5(a)
	19 N-Nitroso-di-n-propylamine	70	4.442	4.442	(1.092)	27089	5.00000	4(aQ)
	20 4-Methylphenol	108	4.559	4.565	(1.121)	32200	5.00000	5(a)
	21 Hexachloroethane	117	4.489	4.489	(1.104)	14626	5.00000	4(a)
$	22 Nitrobenzene-d5	82	4.553	4.559	(0.884)	40047	5.00000	5(a)
	23 Nitrobenzene	77	4.571	4.577	(0.887)	54171	5.00000	5(a)
	24 Isophorone	82	4.777	4.789	(0.927)	67379	5.00000	5(a)
	25 2-Nitrophenol	139	4.841	4.847	(0.940)	19702	5.00000	5(a)
	26 2,4-Dimethylphenol	107	4.965	4.959	(0.964)	39255	5.00000	5(a)
	144 Tetraethyllead	237	4.900	4.900	(1.205)	18095	5.00000	5(a)
	27 bis(2-Chloroethoxy)methane	93	4.977	4.983	(0.966)	41191	5.00000	5(a)
	28 Benzoic Acid	105	5.153	5.135	(1.000)	10349	5.00000	5(aQ)
	29 2,4-Dichlorophenol	162	5.118	5.112	(0.993)	28180	5.00000	4(a)
	30 1,2,4-Trichlorobenzene	180	5.106	5.106	(0.991)	34861	5.00000	5(a)
*	31 Naphthalene-d8	136	5.153	5.153	(1.000)	767318	40.0000	
	32 Naphthalene	128	5.165	5.171	(1.002)	88522	5.00000	5(a)
	115 alpha-Terpineol	59	5.194	5.200	(1.008)	25537	5.00000	4(a)
	33 4-Chloroaniline	127	5.247	5.253	(1.018)	37711	5.00000	5(a)
	34 Hexachlorobutadiene	225	5.270	5.270	(1.023)	23279	5.00000	5(a)
	102 Caprolactam	113	5.529	5.570	(1.073)	11697	5.00000	5(a)
	35 4-Chloro-3-Methylphenol	107	5.746	5.740	(1.115)	33943	5.00000	4(aQ)
	36 2-Methylnaphthalene	142	5.746	5.746	(1.115)	94619	5.00000	5(a)
	114 1-Methylnaphthalene	142	5.823	5.823	(1.130)	63268	5.00000	5(a)
	38 Hexachlorocyclopentadiene	237	5.870	5.870	(0.890)	10164	5.00000	2(a)
	112 1,2,4,5-Tetrachlorobenzene	216	5.881	5.881	(0.891)	36310	5.00000	5(a)
	39 2,4,6-Trichlorophenol	196	6.022	6.022	(0.913)	26795	5.00000	5(a)
	40 2,4,5-Trichlorophenol	196	6.099	6.093	(0.924)	26208	5.00000	5(a)
$	41 2-Fluorobiphenyl	172	6.052	6.052	(0.917)	84783	5.00000	5(a)
	98 1,1'-Biphenyl	154	6.134	6.134	(0.930)	90442	5.00000	5(a)
	42 2-Chloronaphthalene	162	6.140	6.146	(0.931)	68959	5.00000	5(a)
	43 2-Nitroaniline	65	6.263	6.269	(0.949)	25082	5.00000	4(a)
	44 Dimethylphthalate	163	6.404	6.410	(0.971)	89237	5.00000	5(a)
	45 2,6-Dinitrotoluene	165	6.457	6.463	(0.979)	22144	5.00000	5(a)
	46 Acenaphthylene	152	6.481	6.481	(0.982)	111633	5.00000	5(a)
	47 3-Nitroaniline	138	6.610	6.616	(1.002)	20216	5.00000	4(aQ)
*	48 Acenaphthene-d10	164	6.598	6.598	(1.000)	544617	40.0000	
	49 Acenaphthene	153	6.622	6.628	(1.004)	72945	5.00000	5(a)
	50 2,4-Dinitrophenol	184	6.722	6.704	(1.019)	5477	5.00000	3(aM)M6 TM 09/29
	51 4-Nitrophenol	109	6.904	6.886	(1.046)	11224	5.00000	3(aQ)
	53 2,4-Dinitrotoluene	165	6.792	6.792	(1.029)	29236	5.00000	5(a)
	52 Dibenzofuran	168	6.763	6.769	(1.025)	103271	5.00000	5(a)
	110 2,3,4,6-Tetrachlorophenol	232	6.910	6.910	(1.047)	24572	5.00000	5
	54 Diethylphthalate	149	6.974	6.980	(1.057)	92923	5.00000	5(a)
	56 4-Chlorophenyl-phenylether	204	7.051	7.051	(1.069)	45248	5.00000	4(a)
	55 Fluorene	166	7.045	7.051	(1.068)	90282	5.00000	5(a)
	57 4-Nitroaniline	138	7.109	7.121	(1.077)	22187	5.00000	6(a)
	58 4,6-Dinitro-2-methylphenol	198	7.127	7.133	(0.912)	13229	5.00000	3(aQ)
	59 N-Nitrosodiphenylamine	169	7.162	7.168	(0.917)	82012	5.00000	5(a)
	97 Azobenzene	77	7.180	7.186	(0.919)	105461	5.00000	4(a)
$	60 2,4,6-Tribromophenol	330	7.262	7.262	(0.929)	13036	5.00000	5(a)
	61 4-Bromophenyl-phenylether	248	7.450	7.450	(0.953)	29040	5.00000	5(a)
	62 Hexachlorobenzene	284	7.491	7.491	(0.959)	27988	5.00000	4(a)
	100 Atrazine	200	7.615	7.621	(0.974)	27998	5.00000	4(a)
	111 Pentachloronitrobenzene	237	7.668	7.674	(0.981)	16446	5.00000	5(a)

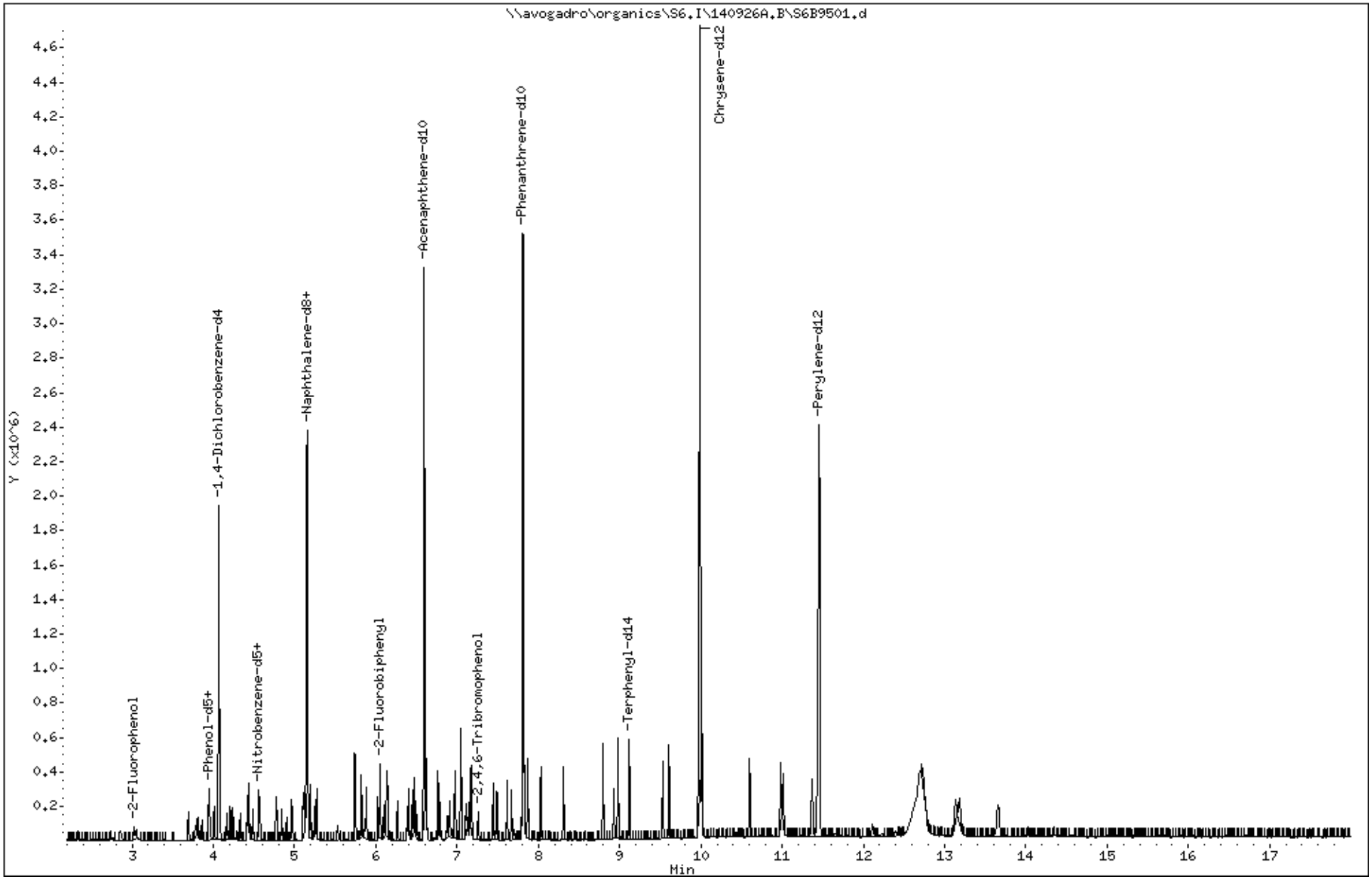
Data File: \\avogadro\organics\S6.I\140926A.B\S6B9501.d
Report Date: 29-Sep-2014 10:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	63 Pentachlorophenol	266	7.703	7.697	(0.986)	6413	5.00000	3(aQ)
*	64 Phenanthrene-d10	188	7.814	7.815	(1.000)	1210729	40.0000	
	65 Phenanthrene	178	7.826	7.832	(1.002)	139495	5.00000	5(a)
	66 Anthracene	178	7.867	7.873	(1.007)	140961	5.00000	5(a)
	67 Carbazole	167	8.032	8.032	(1.028)	130934	5.00000	5(a)
	68 Di-n-butylphthalate	149	8.308	8.314	(1.063)	167795	5.00000	5(a)
	69 Fluoranthene	202	8.796	8.802	(1.126)	173955	5.00000	5(a)
	70 Benzidine	184	8.931	8.931	(0.894)	78983	5.00000	6(a)
	71 Pyrene	202	8.978	8.984	(0.899)	181950	5.00000	5(a)
$	72 Terphenyl-d14	244	9.119	9.119	(0.913)	118971	5.00000	4(a)
	73 Butylbenzylphthalate	149	9.536	9.536	(0.955)	78857	5.00000	5(a)
	74 3,3'-Dichlorobenzidine	252	9.971	9.977	(0.998)	67255	5.00000	5(a)
	75 Benzo(a)anthracene	228	9.977	9.977	(0.999)	201140	5.00000	5(a)
	78 bis(2-Ethylhexyl)phthalate	149	10.018	10.024	(1.003)	112953	5.00000	4(a)
*	76 Chrysene-d12	240	9.988	9.994	(1.000)	1465953	40.0000	
	77 Chrysene	228	10.006	10.012	(1.002)	170531	5.00000	5(a)
	79 Di-n-octylphthalate	149	10.599	10.605	(0.925)	199710	5.00000	4(a)
	80 Benzo(b)fluoranthene	252	10.981	10.993	(0.958)	187187	5.00000	5(a)
	81 Benzo(k)fluoranthene	252	11.017	11.028	(0.962)	184897	5.00000	5(a)
	82 Benzo(a)pyrene	252	11.369	11.381	(0.992)	174158	5.00000	5(a)
*	83 Perylene-d12	264	11.457	11.463	(1.000)	1357087	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	13.138	13.161	(1.147)	163697	5.00000	4(a)
	85 Dibenzo(a,h)anthracene	278	13.185	13.208	(1.151)	170946	5.00000	5(a)
	86 Benzo(g,h,i)perylene	276	13.661	13.690	(1.192)	162439	5.00000	5(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

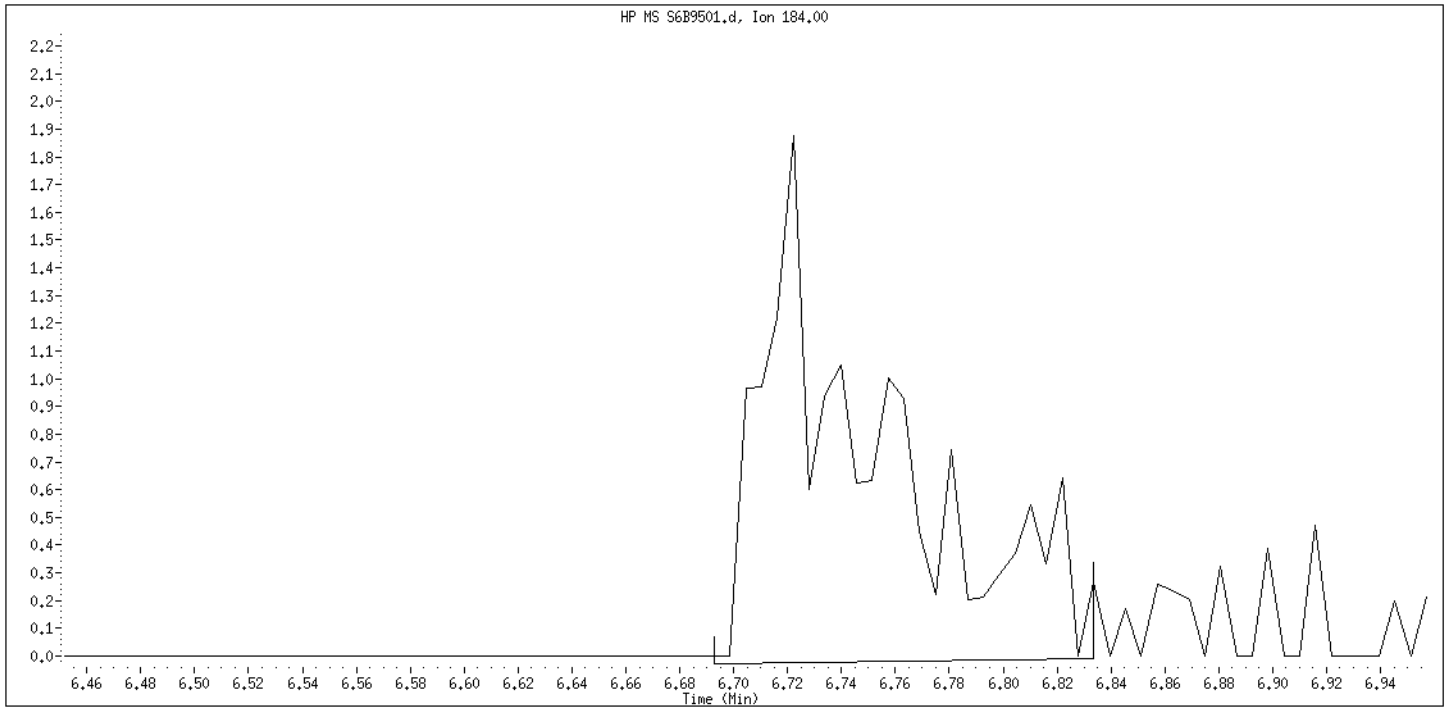
Data File: \\avogadro\organics\S6.I\140926A.B\S6B9501.d
Date : 26-SEP-2014 17:37
Client ID: SSTD0056L
Instrument: S6.i
Sample Info: SSTD0056L,SSTD0056L
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: Rxi-5Sil MS
Column diameter: 0.25



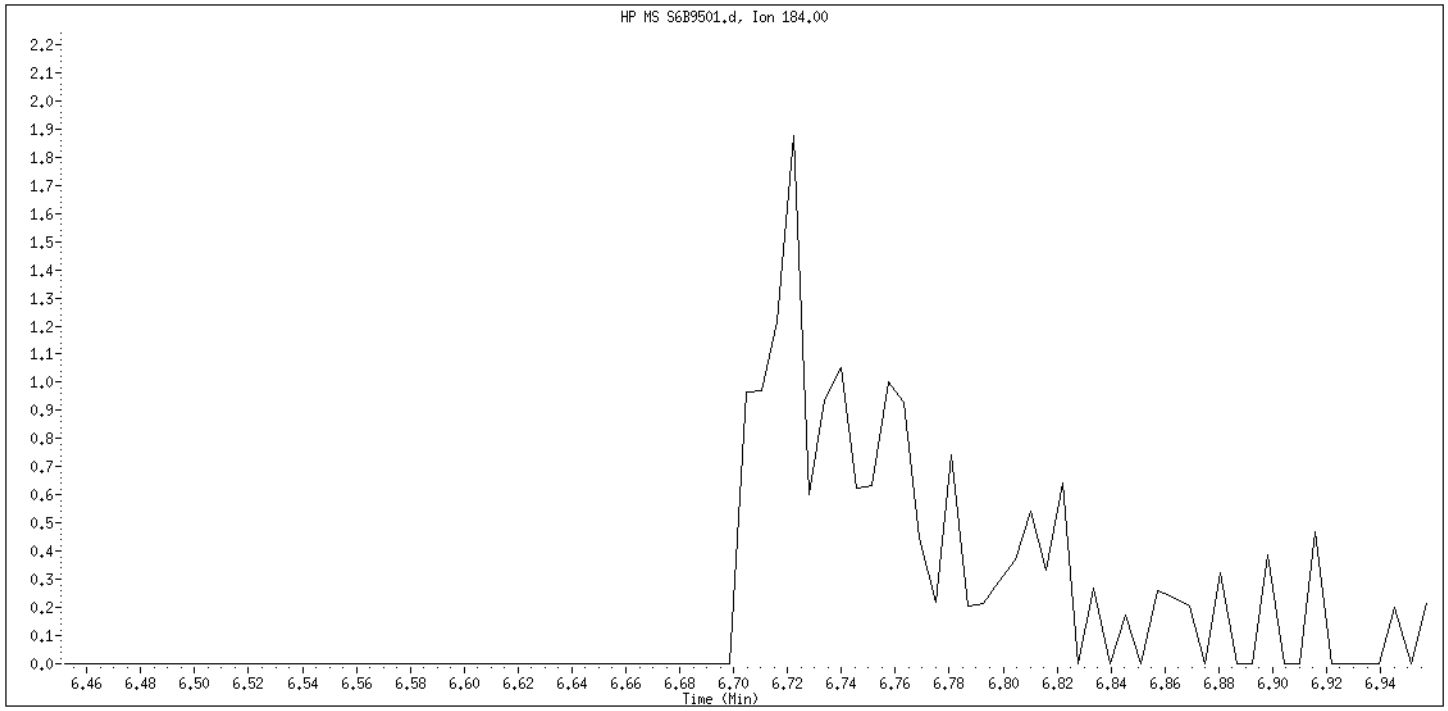
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9501.d

Lab ID: SSTD0056L Client ID: SSTD0056L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 17:37 Operator: TM SRC: TM

Manual Integration 2,4-Dinitrophenol Ret Time: 6.722 min, Range: 6.693 to 6.834 min Response: 5477



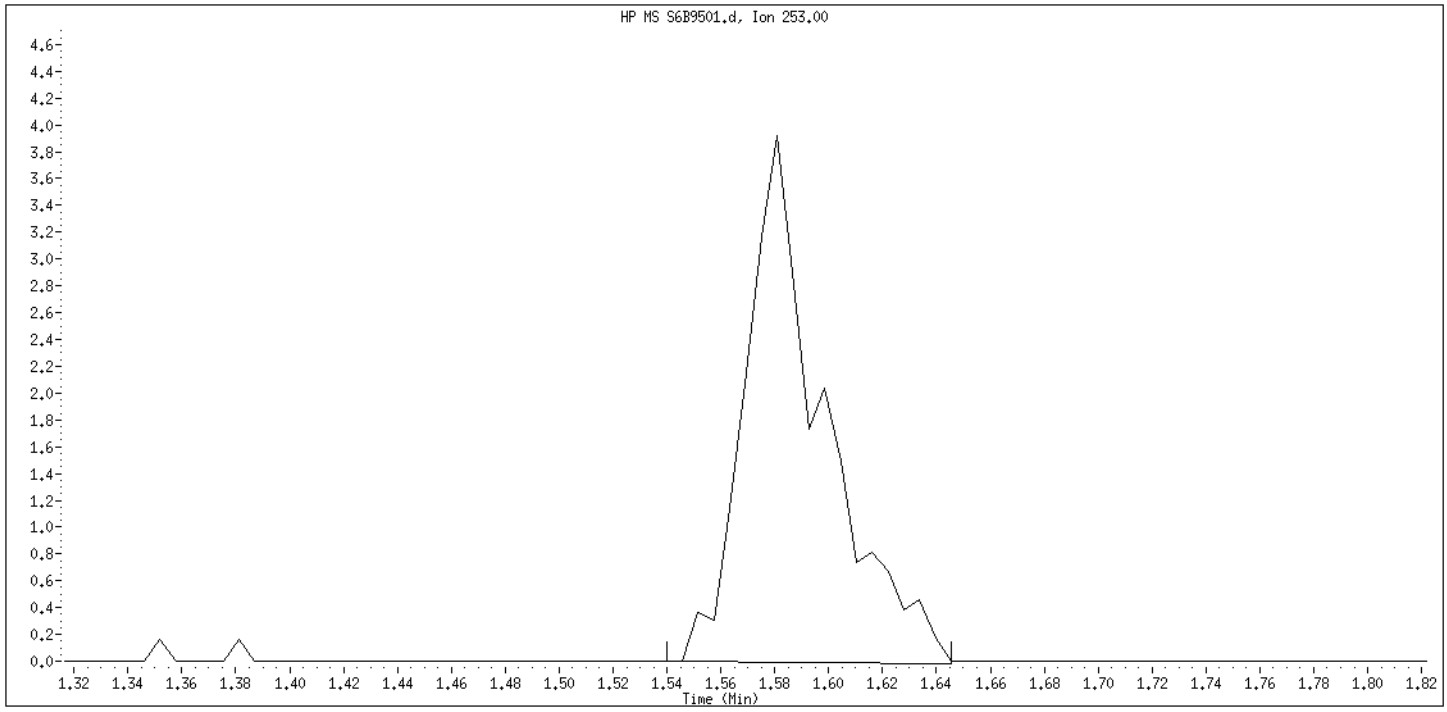
Original Integration 2,4-Dinitrophenol Ret Time: 0.000 min, Range: 0.000 to 0.000 min Response: 0



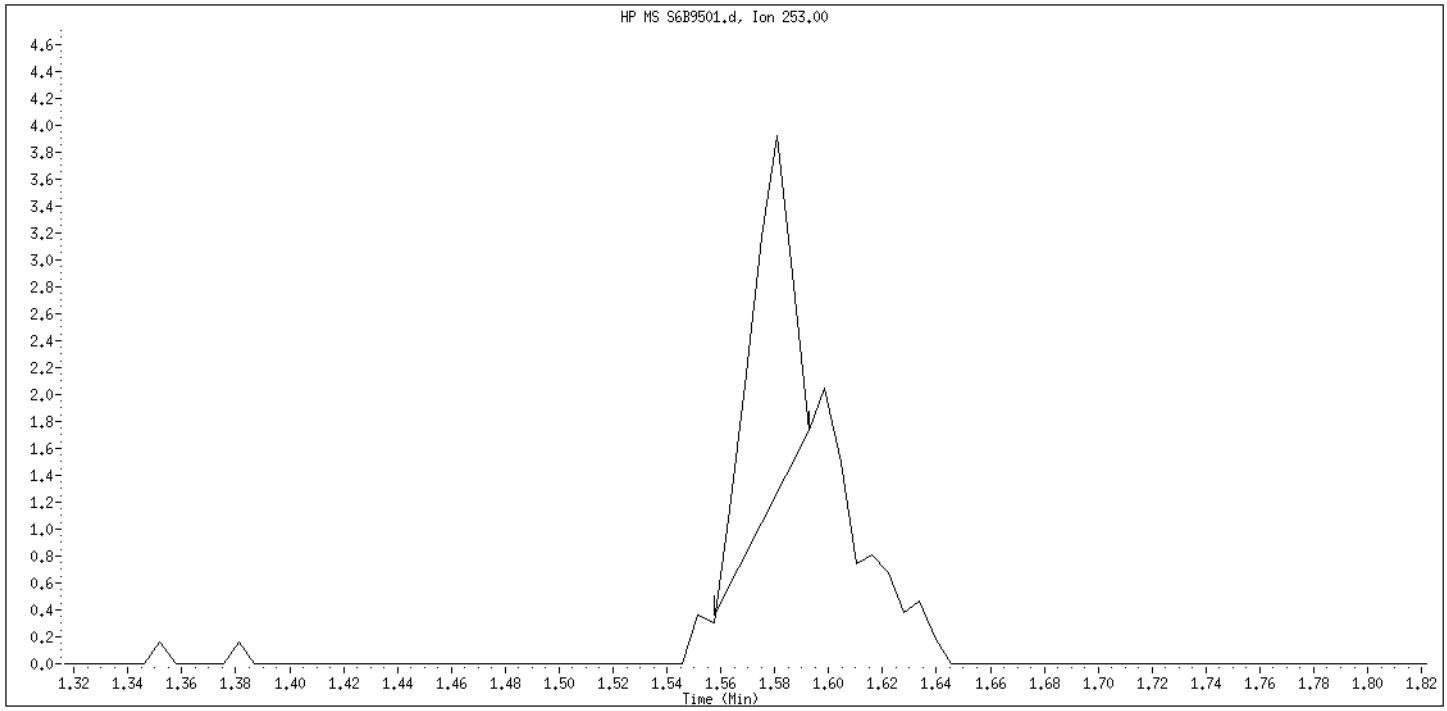
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9501.d

Lab ID: SSTD0056L Client ID: SSTD0056L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 17:37 Operator: TM SRC: TM

Manual Integration Tetramethyllead Ret Time: 1.581 min, Range: 1.540 to 1.646 min Response: 7945



Original Integration Tetramethyllead Ret Time: 1.581 min, Range: 1.557 to 1.593 min Response: 2789



Data File: \\avogadro\organics\S6.I\140926A.B\S6B9502.d
Report Date: 29-Sep-2014 10:23

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\140926A.B\S6B9502.d
Lab Smp Id: SSTD0106L Client Smp ID: SSTD0106L
Inj Date : 26-SEP-2014 18:01
Operator : TM   SRC: TM Inst ID: S6.i
Smp Info : SSTD0106L,SSTD0106L
Misc Info : 1,2
Comment   :
Method   : \\avogadro\organics\S6.I\140926A.B\S6_8270C_N.m
Meth Date : 29-Sep-2014 10:08 tmcdaniel Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET102

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 109 1,4-Dioxane-d8	96	1.328	1.322	(0.327)	22851	10.0000	10
108 1,4-Dioxane	58	1.346	1.340	(0.331)	13644	10.0000	10
1 N-Nitrosodimethylamine	74	1.569	1.563	(0.386)	35765	10.0000	9(a)
143 Tetramethyllead	253	1.581	1.569	(0.389)	16198	10.0000	11
2 Pyridine	79	1.587	1.581	(0.390)	60544	10.0000	9(a)
$ 3 2-Fluorophenol	112	3.026	3.020	(0.744)	60156	10.0000	9(a)
101 Benzaldehyde	77	3.690	3.690	(0.908)	62563	10.0000	14
7 Aniline	66	3.802	3.802	(0.935)	40442	10.0000	9(a)
$ 5 Phenol-d5	99	3.931	3.925	(0.967)	81882	10.0000	9(a)
6 Phenol	94	3.943	3.937	(0.970)	79636	10.0000	9(a)
8 bis(2-Chloroethyl)Ether	63	3.860	3.860	(0.949)	40193	10.0000	9(a)
10 2-Chlorophenol	128	3.949	3.943	(0.971)	65656	10.0000	9(a)
11 1,3-Dichlorobenzene	146	4.013	4.013	(0.987)	73260	10.0000	10
* 12 1,4-Dichlorobenzene-d4	152	4.066	4.066	(1.000)	216743	40.0000	
13 1,4-Dichlorobenzene	146	4.084	4.084	(1.004)	73157	10.0000	9(a)
117 2-Ethyl-1-hexanol	57	4.166	4.166	(1.025)	64230	10.0000	9(a)
15 Benzyl Alcohol	108	4.242	4.248	(1.043)	43945	10.0000	9(a)
16 1,2-Dichlorobenzene	146	4.207	4.207	(1.035)	69400	10.0000	9(a)
18 2,2'-oxybis(1-Chloropropane)	45	4.330	4.330	(1.065)	56483	10.0000	9(a)
17 2-Methylphenol	108	4.413	4.413	(1.085)	59540	10.0000	9(a)

Data File: \\avogadro\organics\S6.I\140926A.B\S6B9502.d
Report Date: 29-Sep-2014 10:23

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	99 Acetophenone	105	4.430	4.430	(1.090)	108972	10.0000	9(a)
	19 N-Nitroso-di-n-propylamine	70	4.442	4.442	(1.092)	57572	10.0000	9(aQ)
	20 4-Methylphenol	108	4.560	4.565	(1.121)	66578	10.0000	10
	21 Hexachloroethane	117	4.489	4.489	(1.104)	31711	10.0000	9(a)
$	22 Nitrobenzene-d5	82	4.560	4.559	(0.885)	84126	10.0000	9(a)
	23 Nitrobenzene	77	4.571	4.577	(0.887)	119483	10.0000	10
	24 Isophorone	82	4.777	4.789	(0.927)	139779	10.0000	9(a)
	25 2-Nitrophenol	139	4.842	4.847	(0.940)	38430	10.0000	9(a)
	26 2,4-Dimethylphenol	107	4.959	4.959	(0.962)	81194	10.0000	9(a)
	144 Tetraethyllead	237	4.900	4.900	(1.205)	36317	10.0000	9(a)
	27 bis(2-Chloroethoxy)methane	93	4.977	4.983	(0.966)	82047	10.0000	9(a)
	28 Benzoic Acid	105	5.153	5.135	(1.000)	22669	10.0000	10(aQ)
	29 2,4-Dichlorophenol	162	5.118	5.112	(0.993)	61244	10.0000	9(a)
	30 1,2,4-Trichlorobenzene	180	5.106	5.106	(0.991)	69673	10.0000	9(a)
*	31 Naphthalene-d8	136	5.153	5.153	(1.000)	795273	40.0000	
	32 Naphthalene	128	5.165	5.171	(1.002)	178439	10.0000	9(a)
	115 alpha-Terpineol	59	5.194	5.200	(1.008)	53954	10.0000	9(a)
	33 4-Chloroaniline	127	5.247	5.253	(1.018)	78804	10.0000	9(a)
	34 Hexachlorobutadiene	225	5.271	5.270	(1.023)	49969	10.0000	10
	102 Caprolactam	113	5.541	5.570	(1.075)	22418	10.0000	10
	35 4-Chloro-3-Methylphenol	107	5.741	5.740	(1.114)	74258	10.0000	9(a)
	36 2-Methylnaphthalene	142	5.746	5.746	(1.115)	188238	10.0000	9(a)
	114 1-Methylnaphthalene	142	5.823	5.823	(1.130)	127130	10.0000	9(a)
	38 Hexachlorocyclopentadiene	237	5.870	5.870	(0.890)	29253	10.0000	7(a)
	112 1,2,4,5-Tetrachlorobenzene	216	5.882	5.881	(0.891)	79154	10.0000	10
	39 2,4,6-Trichlorophenol	196	6.023	6.022	(0.913)	51786	10.0000	9(a)
	40 2,4,5-Trichlorophenol	196	6.099	6.093	(0.924)	53315	10.0000	9(a)
$	41 2-Fluorobiphenyl	172	6.052	6.052	(0.917)	169484	10.0000	9(a)
	98 1,1'-Biphenyl	154	6.128	6.134	(0.929)	185982	10.0000	9(a)
	42 2-Chloronaphthalene	162	6.140	6.146	(0.931)	139947	10.0000	9(a)
	43 2-Nitroaniline	65	6.264	6.269	(0.949)	55641	10.0000	9(a)
	44 Dimethylphthalate	163	6.405	6.410	(0.971)	183863	10.0000	10
	45 2,6-Dinitrotoluene	165	6.457	6.463	(0.979)	44099	10.0000	10
	46 Acenaphthylene	152	6.481	6.481	(0.982)	239599	10.0000	10
	47 3-Nitroaniline	138	6.610	6.616	(1.002)	44709	10.0000	9(a)
*	48 Acenaphthene-d10	164	6.598	6.598	(1.000)	564132	40.0000	
	49 Acenaphthene	153	6.622	6.628	(1.004)	151567	10.0000	9(a)
	50 2,4-Dinitrophenol	184	6.704	6.704	(1.016)	15809	10.0000	8(aQ)
	51 4-Nitrophenol	109	6.892	6.886	(1.045)	26922	10.0000	8(a)
	53 2,4-Dinitrotoluene	165	6.792	6.792	(1.029)	62254	10.0000	10
	52 Dibenzofuran	168	6.763	6.769	(1.025)	208692	10.0000	9(a)
	110 2,3,4,6-Tetrachlorophenol	232	6.910	6.910	(1.047)	43761	10.0000	9
	54 Diethylphthalate	149	6.974	6.980	(1.057)	185294	10.0000	10
	56 4-Chlorophenyl-phenylether	204	7.051	7.051	(1.069)	97448	10.0000	9(a)
	55 Fluorene	166	7.045	7.051	(1.068)	182649	10.0000	9(a)
	57 4-Nitroaniline	138	7.115	7.121	(1.078)	40330	10.0000	10(a)
	58 4,6-Dinitro-2-methylphenol	198	7.127	7.133	(0.912)	34550	10.0000	9(a)
	59 N-Nitrosodiphenylamine	169	7.162	7.168	(0.917)	165473	10.0000	9(a)
	97 Azobenzene	77	7.180	7.186	(0.919)	211388	10.0000	9(a)
$	60 2,4,6-Tribromophenol	330	7.262	7.262	(0.929)	24858	10.0000	9(a)
	61 4-Bromophenyl-phenylether	248	7.450	7.450	(0.953)	60121	10.0000	9(a)
	62 Hexachlorobenzene	284	7.492	7.491	(0.959)	60147	10.0000	10
	100 Atrazine	200	7.615	7.621	(0.974)	63809	10.0000	10
	111 Pentachloronitrobenzene	237	7.668	7.674	(0.981)	31391	10.0000	9(a)

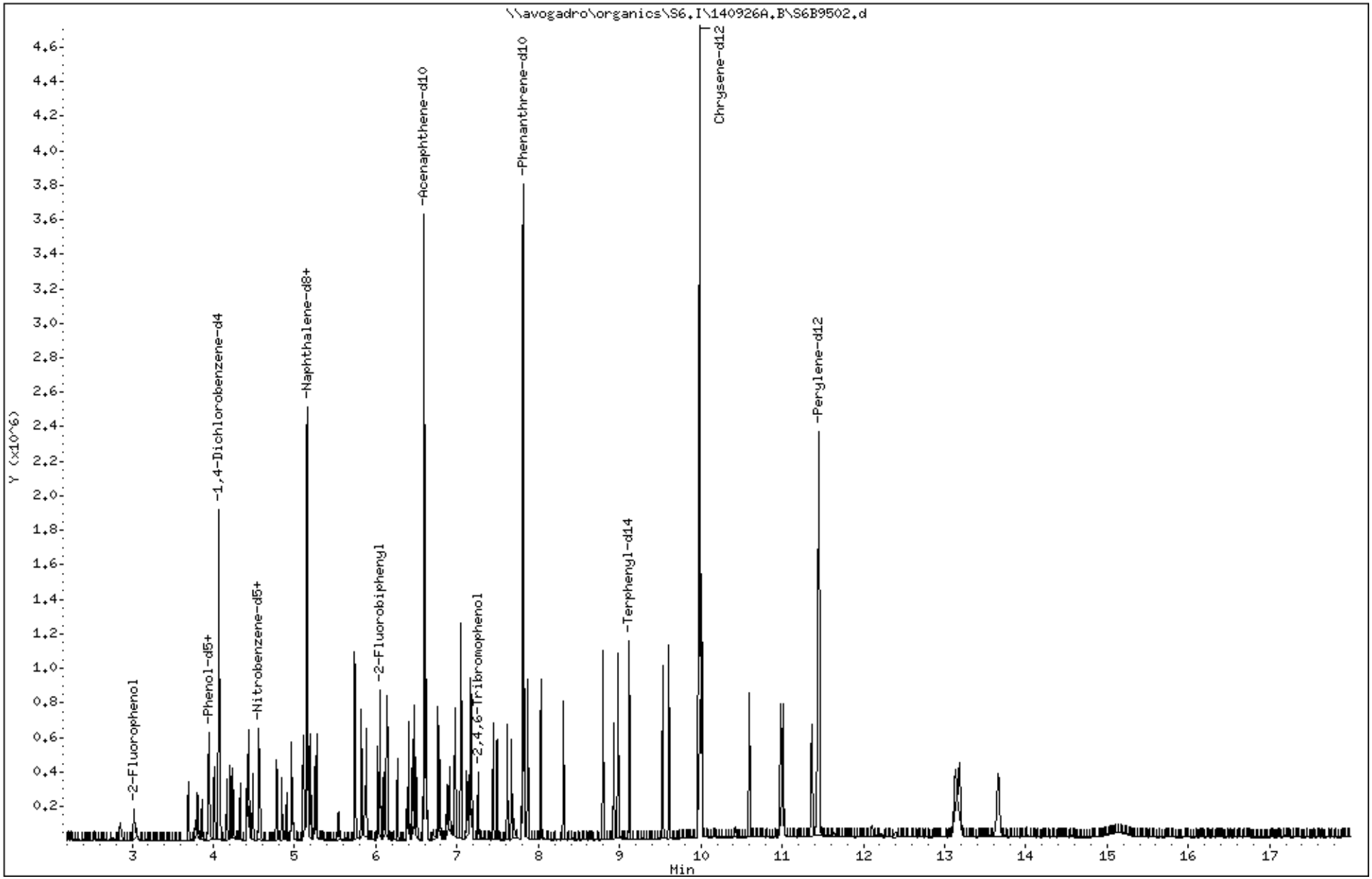
Data File: \\avogadro\organics\S6.I\140926A.B\S6B9502.d
Report Date: 29-Sep-2014 10:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	63 Pentachlorophenol	266	7.697	7.697	(0.985)	16759	10.0000	7(a)
*	64 Phenanthrene-d10	188	7.815	7.815	(1.000)	1231390	40.0000	
	65 Phenanthrene	178	7.826	7.832	(1.002)	277329	10.0000	9(a)
	66 Anthracene	178	7.868	7.873	(1.007)	289678	10.0000	9(a)
	67 Carbazole	167	8.032	8.032	(1.028)	263532	10.0000	10
	68 Di-n-butylphthalate	149	8.314	8.314	(1.064)	324531	10.0000	9(a)
	69 Fluoranthene	202	8.796	8.802	(1.126)	358269	10.0000	10
	70 Benzidine	184	8.931	8.931	(0.894)	177581	10.0000	14(a)
	71 Pyrene	202	8.978	8.984	(0.899)	372766	10.0000	10
$	72 Terphenyl-d14	244	9.119	9.119	(0.913)	247589	10.0000	9(a)
	73 Butylbenzylphthalate	149	9.530	9.536	(0.954)	163809	10.0000	10
	74 3,3'-Dichlorobenzidine	252	9.971	9.977	(0.998)	139760	10.0000	10
	75 Benzo(a)anthracene	228	9.971	9.977	(0.998)	402011	10.0000	10
	78 bis(2-Ethylhexyl)phthalate	149	10.018	10.024	(1.003)	231081	10.0000	9(a)
*	76 Chrysene-d12	240	9.989	9.994	(1.000)	1463652	40.0000	
	77 Chrysene	228	10.006	10.012	(1.002)	331796	10.0000	9(a)
	79 Di-n-octylphthalate	149	10.594	10.605	(0.925)	415904	10.0000	9(a)
	80 Benzo(b)fluoranthene	252	10.982	10.993	(0.959)	376631	10.0000	9(a)
	81 Benzo(k)fluoranthene	252	11.017	11.028	(0.962)	359361	10.0000	9(a)
	82 Benzo(a)pyrene	252	11.364	11.381	(0.992)	347935	10.0000	9(a)
*	83 Perylene-d12	264	11.452	11.463	(1.000)	1366186	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	13.132	13.161	(1.147)	332835	10.0000	9(a)
	85 Dibenzo(a,h)anthracene	278	13.179	13.208	(1.151)	326560	10.0000	10
	86 Benzo(g,h,i)perylene	276	13.661	13.690	(1.193)	336034	10.0000	10

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\S6.I\140926A.B\S6B9502.d
Date : 26-SEP-2014 18:01
Client ID: SSTD0106L
Instrument: S6.i
Sample Info: SSTD0106L,SSTD0106L
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\140926A.B\S6B9503.d
Report Date: 29-Sep-2014 10:23

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\140926A.B\S6B9503.d
Lab Smp Id: SSTD0406L Client Smp ID: SSTD0406L
Inj Date : 26-SEP-2014 18:24
Operator : TM   SRC: TM Inst ID: S6.i
Smp Info : SSTD0406L,SSTD0406L
Misc Info : 1,4
Comment   :
Method   : \\avogadro\organics\S6.I\140926A.B\S6_8270C_N.m
Meth Date : 29-Sep-2014 10:08 tmcdaniel Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET102

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109	1,4-Dioxane-d8	96	1.334	1.322	(0.328)	90073	40.0000	45
	108	1,4-Dioxane	58	1.351	1.340	(0.332)	52986	40.0000	42
	1	N-Nitrosodimethylamine	74	1.575	1.563	(0.387)	151730	40.0000	43
	143	Tetramethyllead	253	1.569	1.569	(0.385)	52820	40.0000	40(Q)
	2	Pyridine	79	1.592	1.581	(0.391)	265027	40.0000	42
$	3	2-Fluorophenol	112	3.020	3.020	(0.742)	246342	40.0000	42
	101	Benzaldehyde	77	3.690	3.690	(0.906)	103722	40.0000	26
	7	Aniline	66	3.807	3.802	(0.935)	164164	40.0000	41
$	5	Phenol-d5	99	3.925	3.925	(0.964)	343811	40.0000	43
	6	Phenol	94	3.937	3.937	(0.967)	333920	40.0000	42
	8	bis(2-Chloroethyl)Ether	63	3.866	3.860	(0.949)	163294	40.0000	41
	10	2-Chlorophenol	128	3.942	3.943	(0.968)	261144	40.0000	42
	11	1,3-Dichlorobenzene	146	4.013	4.013	(0.986)	278040	40.0000	40
*	12	1,4-Dichlorobenzene-d4	152	4.072	4.066	(1.000)	195094	40.0000	
	13	1,4-Dichlorobenzene	146	4.084	4.084	(1.003)	284621	40.0000	40
	117	2-Ethyl-1-hexanol	57	4.172	4.166	(1.025)	269064	40.0000	41
	15	Benzyl Alcohol	108	4.254	4.248	(1.045)	185239	40.0000	43
	16	1,2-Dichlorobenzene	146	4.213	4.207	(1.035)	271109	40.0000	41
	18	2,2'-oxybis(1-Chloropropane)	45	4.336	4.330	(1.065)	224164	40.0000	41
	17	2-Methylphenol	108	4.413	4.413	(1.084)	247471	40.0000	42

Data File: \\avogadro\organics\S6.I\140926A.B\S6B9503.d
Report Date: 29-Sep-2014 10:23

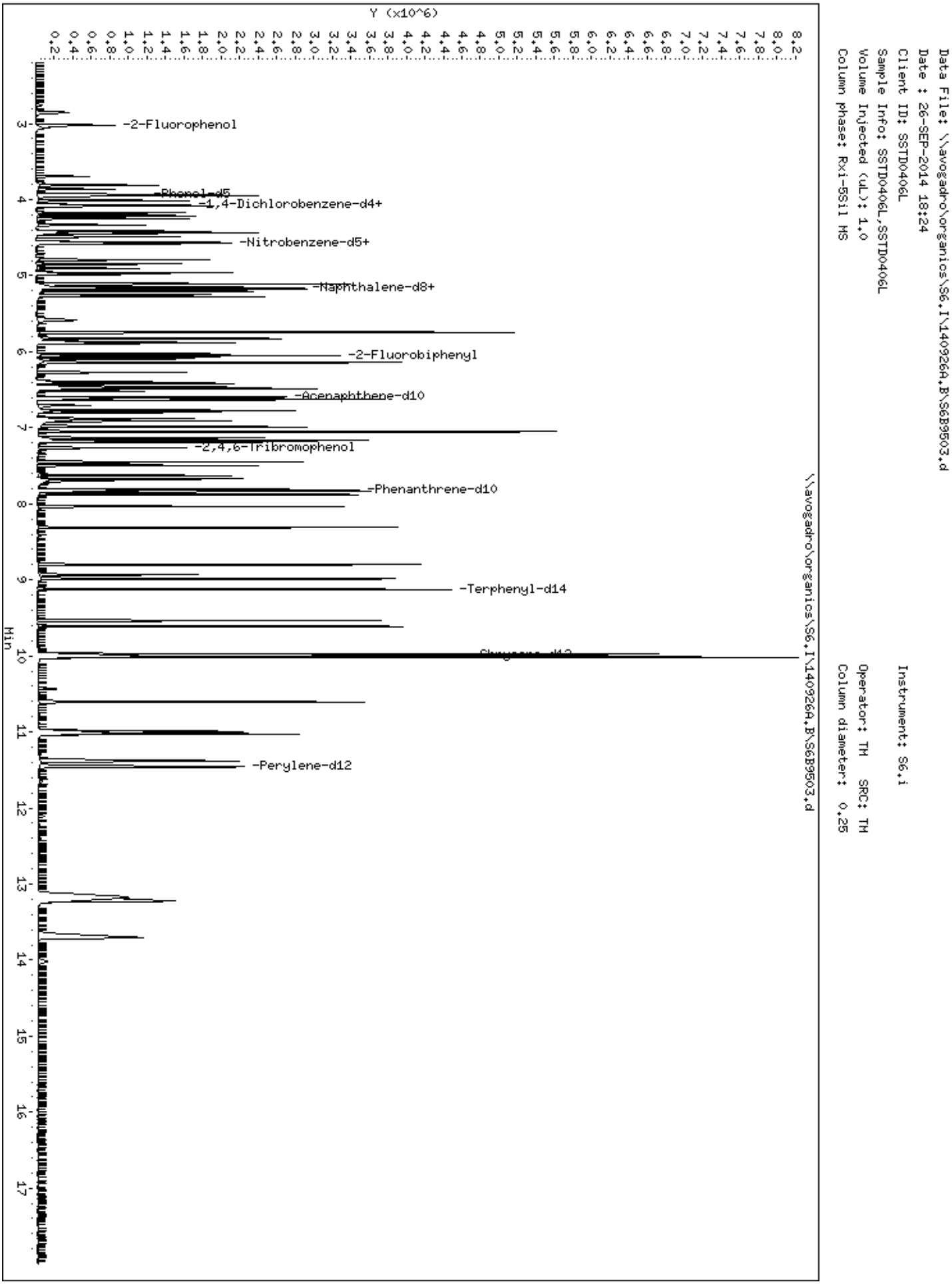
							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	99 Acetophenone	105	4.436	4.430	(1.089)	437346	40.0000	41(Q)
	19 N-Nitroso-di-n-propylamine	70	4.454	4.442	(1.094)	233686	40.0000	42(Q)
	20 4-Methylphenol	108	4.565	4.565	(1.121)	181010	40.0000	30(Q)
	21 Hexachloroethane	117	4.489	4.489	(1.102)	125156	40.0000	41
$	22 Nitrobenzene-d5	82	4.565	4.559	(0.886)	337781	40.0000	40
	23 Nitrobenzene	77	4.577	4.577	(0.888)	440210	40.0000	40(M)M6 TM 09/29
	24 Isophorone	82	4.789	4.789	(0.929)	573989	40.0000	41
	25 2-Nitrophenol	139	4.847	4.847	(0.941)	161235	40.0000	41
	26 2,4-Dimethylphenol	107	4.965	4.959	(0.964)	330338	40.0000	40
	144 Tetraethyllead	237	4.900	4.900	(1.203)	146035	40.0000	42
	27 bis(2-Chloroethoxy)methane	93	4.982	4.983	(0.967)	333672	40.0000	40
	28 Benzoic Acid	105	5.147	5.135	(0.999)	68331	40.0000	33(Q)
	29 2,4-Dichlorophenol	162	5.112	5.112	(0.992)	246629	40.0000	40
	30 1,2,4-Trichlorobenzene	180	5.112	5.106	(0.992)	275177	40.0000	39
*	31 Naphthalene-d8	136	5.153	5.153	(1.000)	755565	40.0000	
	32 Naphthalene	128	5.170	5.171	(1.003)	739457	40.0000	40
	115 alpha-Terpineol	59	5.206	5.200	(1.010)	229826	40.0000	41
	33 4-Chloroaniline	127	5.253	5.253	(1.019)	319951	40.0000	40
	34 Hexachlorobutadiene	225	5.270	5.270	(1.023)	195623	40.0000	40
	102 Caprolactam	113	5.588	5.570	(1.084)	92939	40.0000	42
	35 4-Chloro-3-Methylphenol	107	5.746	5.740	(1.115)	308020	40.0000	41
	36 2-Methylnaphthalene	142	5.746	5.746	(1.115)	774723	40.0000	40
	114 1-Methylnaphthalene	142	5.829	5.823	(1.131)	516674	40.0000	40
	38 Hexachlorocyclopentadiene	237	5.870	5.870	(0.889)	168497	40.0000	44
	112 1,2,4,5-Tetrachlorobenzene	216	5.887	5.881	(0.891)	294531	40.0000	39
	39 2,4,6-Trichlorophenol	196	6.028	6.022	(0.913)	213070	40.0000	40
	40 2,4,5-Trichlorophenol	196	6.093	6.093	(0.923)	220916	40.0000	40
$	41 2-Fluorobiphenyl	172	6.058	6.052	(0.917)	693084	40.0000	40
	98 1,1'-Biphenyl	154	6.140	6.134	(0.930)	740614	40.0000	39
	42 2-Chloronaphthalene	162	6.146	6.146	(0.931)	573719	40.0000	40
	43 2-Nitroaniline	65	6.269	6.269	(0.949)	219749	40.0000	40
	44 Dimethylphthalate	163	6.416	6.410	(0.972)	736291	40.0000	40
	45 2,6-Dinitrotoluene	165	6.469	6.463	(0.980)	170970	40.0000	39
	46 Acenaphthylene	152	6.487	6.481	(0.982)	930659	40.0000	40
	47 3-Nitroaniline	138	6.622	6.616	(1.003)	179368	40.0000	40
*	48 Acenaphthene-d10	164	6.604	6.598	(1.000)	531824	40.0000	
	49 Acenaphthene	153	6.628	6.628	(1.004)	618687	40.0000	40
	50 2,4-Dinitrophenol	184	6.704	6.704	(1.015)	80429	40.0000	42(Q)
	51 4-Nitrophenol	109	6.886	6.886	(1.043)	139761	40.0000	42
	53 2,4-Dinitrotoluene	165	6.798	6.792	(1.029)	234602	40.0000	40
	52 Dibenzofuran	168	6.769	6.769	(1.025)	829703	40.0000	40
	110 2,3,4,6-Tetrachlorophenol	232	6.910	6.910	(1.046)	196039	40.0000	42
	54 Diethylphthalate	149	6.986	6.980	(1.058)	733146	40.0000	40
	56 4-Chlorophenyl-phenylether	204	7.057	7.051	(1.069)	402792	40.0000	40
	55 Fluorene	166	7.051	7.051	(1.068)	754698	40.0000	40
	57 4-Nitroaniline	138	7.133	7.121	(1.080)	154992	40.0000	40
	58 4,6-Dinitro-2-methylphenol	198	7.139	7.133	(0.914)	150880	40.0000	40
	59 N-Nitrosodiphenylamine	169	7.168	7.168	(0.917)	655539	40.0000	40
	97 Azobenzene	77	7.186	7.186	(0.920)	932553	40.0000	41
$	60 2,4,6-Tribromophenol	330	7.262	7.262	(0.929)	108236	40.0000	41
	61 4-Bromophenyl-phenylether	248	7.456	7.450	(0.954)	231044	40.0000	39
	62 Hexachlorobenzene	284	7.497	7.491	(0.959)	233427	40.0000	40
	100 Atrazine	200	7.632	7.621	(0.977)	250242	40.0000	42
	111 Pentachloronitrobenzene	237	7.673	7.674	(0.982)	127762	40.0000	40

Data File: \\avogadro\organics\S6.I\140926A.B\S6B9503.d
Report Date: 29-Sep-2014 10:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	63 Pentachlorophenol	266	7.703	7.697	(0.986)	85765	40.0000	39
*	64 Phenanthrene-d10	188	7.814	7.815	(1.000)	1157954	40.0000	
	65 Phenanthrene	178	7.832	7.832	(1.002)	1115374	40.0000	40
	66 Anthracene	178	7.879	7.873	(1.008)	1148715	40.0000	40
	67 Carbazole	167	8.038	8.032	(1.029)	984049	40.0000	40
	68 Di-n-butylphthalate	149	8.314	8.314	(1.064)	1279736	40.0000	40
	69 Fluoranthene	202	8.802	8.802	(1.126)	1387839	40.0000	40
	70 Benzidine	184	8.937	8.931	(0.894)	462018	40.0000	40
	71 Pyrene	202	8.990	8.984	(0.899)	1447136	40.0000	40
$	72 Terphenyl-d14	244	9.125	9.119	(0.913)	972874	40.0000	40
	73 Butylbenzylphthalate	149	9.536	9.536	(0.954)	626032	40.0000	40
	74 3,3'-Dichlorobenzidine	252	9.977	9.977	(0.998)	495348	40.0000	40
	75 Benzo(a)anthracene	228	9.983	9.977	(0.999)	1533484	40.0000	39
	78 bis(2-Ethylhexyl)phthalate	149	10.018	10.024	(1.002)	960403	40.0000	40
*	76 Chrysene-d12	240	9.994	9.994	(1.000)	1370138	40.0000	
	77 Chrysene	228	10.012	10.012	(1.002)	1341318	40.0000	40
	79 Di-n-octylphthalate	149	10.605	10.605	(0.926)	1581366	40.0000	39
	80 Benzo(b)fluoranthene	252	10.999	10.993	(0.960)	1419488	40.0000	39
	81 Benzo(k)fluoranthene	252	11.034	11.028	(0.963)	1405449	40.0000	40
	82 Benzo(a)pyrene	252	11.387	11.381	(0.994)	1328016	40.0000	40
*	83 Perylene-d12	264	11.457	11.463	(1.000)	1233877	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	13.167	13.161	(1.149)	1429026	40.0000	44
	85 Dibenzo(a,h)anthracene	278	13.226	13.208	(1.154)	1282192	40.0000	42
	86 Benzo(g,h,i)perylene	276	13.708	13.690	(1.196)	1250591	40.0000	41

QC Flag Legend

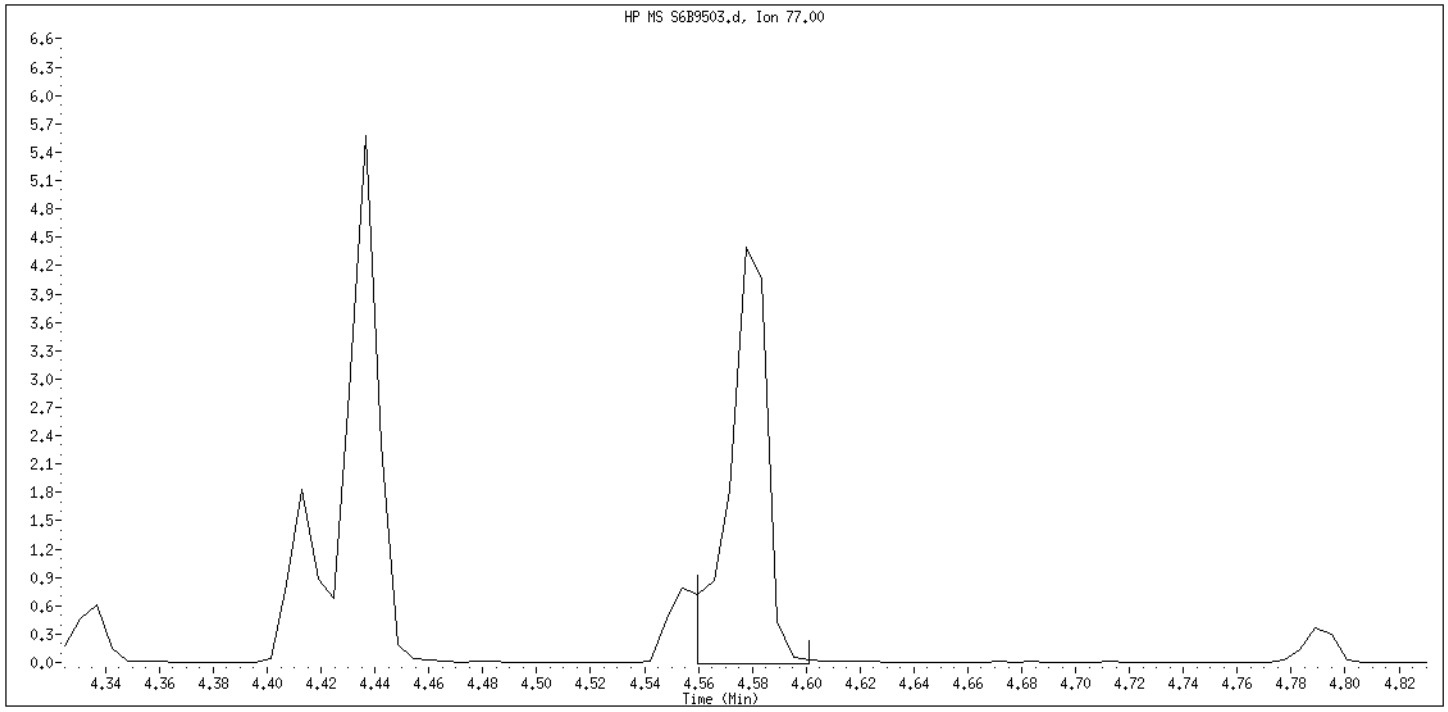
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Data File: \\avogadro\organics\S6,I\140926A,B\S6B9503.d
Date : 26-SEP-2014 18:24
Client ID: SSTD0406L
Sample Info: SSTD0406L,SSTD0406L
Volume Injected (uL): 1.0
Column phase: Rxi-5Sil MS
Instrument: S6,i
Operator: TM SRC: TM
Column diameter: 0.25
Y (x10^6)
Min
-2-Fluorophenol
-Phenol-d5
-1,4-Dichlorobenzene-d4+
-Nitrobenzene-d5+
-Naphthalene-d8+
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Perylene-d12
\\avogadro\organics\S6,I\140926A,B\S6B9503.d

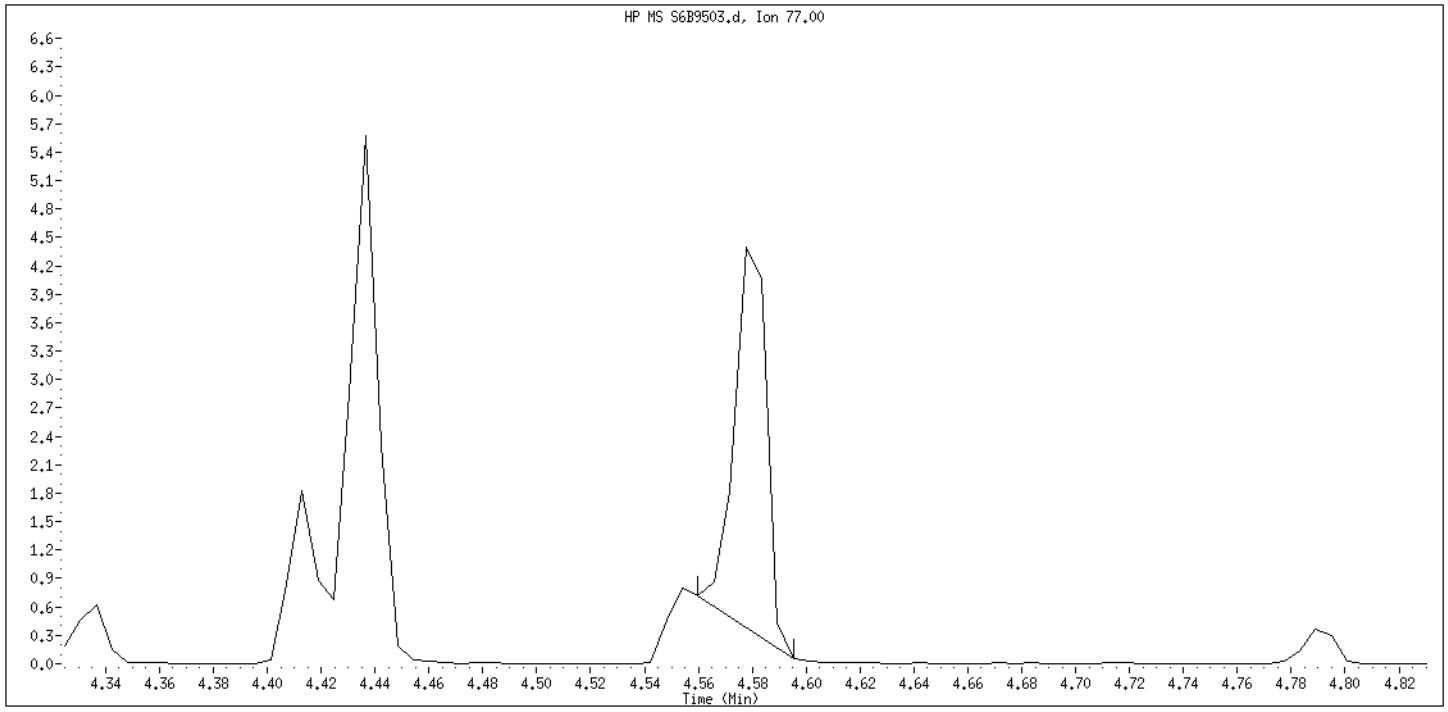
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9503.d

Lab ID: SSTD0406L Client ID: SSTD0406L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 18:24 Operator: TM SRC: TM

Manual Integration Nitrobenzene Ret Time: 4.578 min, Range: 4.560 to 4.601 min Response: 440210



Original Integration Nitrobenzene Ret Time: 4.578 min, Range: 4.560 to 4.595 min Response: 339989



Data File: \\avogadro\organics\S6.I\140926A.B\S6B9504.d
Report Date: 29-Sep-2014 10:24

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\140926A.B\S6B9504.d
Lab Smp Id: SSTD0606L Client Smp ID: SSTD0606L
Inj Date : 26-SEP-2014 18:47
Operator : TM   SRC: TM Inst ID: S6.i
Smp Info : SSTD0606L,SSTD0606L
Misc Info : 1,5
Comment   :
Method   : \\avogadro\organics\S6.I\140926A.B\S6_8270C_N.m
Meth Date : 29-Sep-2014 10:08 tmcdaniel Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET102

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 109 1,4-Dioxane-d8	96	1.381	1.322	(0.339)	118211	60.0000	51(H)
108 1,4-Dioxane	58	1.398	1.340	(0.343)	85351	60.0000	59
1 N-Nitrosodimethylamine	74	1.627	1.563	(0.399)	245674	60.0000	60
143 Tetramethyllead	253	1.557	1.569	(0.382)	75551	60.0000	50
2 Pyridine	79	1.639	1.581	(0.402)	444573	60.0000	61
$ 3 2-Fluorophenol	112	3.032	3.020	(0.744)	415586	60.0000	62
101 Benzaldehyde	77	3.702	3.690	(0.908)	114259	60.0000	25
7 Aniline	66	3.819	3.802	(0.937)	289080	60.0000	63
$ 5 Phenol-d5	99	3.931	3.925	(0.964)	578647	60.0000	62
6 Phenol	94	3.942	3.937	(0.967)	580001	60.0000	63
8 bis(2-Chloroethyl)Ether	63	3.872	3.860	(0.950)	279188	60.0000	61
10 2-Chlorophenol	128	3.954	3.943	(0.970)	457220	60.0000	63
11 1,3-Dichlorobenzene	146	4.025	4.013	(0.987)	475842	60.0000	60
* 12 1,4-Dichlorobenzene-d4	152	4.078	4.066	(1.000)	226310	40.0000	
13 1,4-Dichlorobenzene	146	4.095	4.084	(1.004)	497081	60.0000	61
117 2-Ethyl-1-hexanol	57	4.183	4.166	(1.026)	485697	60.0000	64
15 Benzyl Alcohol	108	4.266	4.248	(1.046)	306945	60.0000	61
16 1,2-Dichlorobenzene	146	4.219	4.207	(1.035)	467506	60.0000	60
18 2,2'-oxybis(1-Chloropropane)	45	4.342	4.330	(1.065)	393302	60.0000	62
17 2-Methylphenol	108	4.418	4.413	(1.084)	417540	60.0000	61

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	99 Acetophenone	105	4.448	4.430	(1.091)	748198	60.0000	61
	19 N-Nitroso-di-n-propylamine	70	4.465	4.442	(1.095)	393230	60.0000	61
	20 4-Methylphenol	108	4.559	4.565	(1.118)	453183	60.0000	65
	21 Hexachloroethane	117	4.495	4.489	(1.102)	218094	60.0000	61
$	22 Nitrobenzene-d5	82	4.571	4.559	(0.886)	585439	60.0000	60
	23 Nitrobenzene	77	4.589	4.577	(0.890)	663759	60.0000	53(M)M6 TM 09/29
	24 Isophorone	82	4.800	4.789	(0.931)	965418	60.0000	60
	25 2-Nitrophenol	139	4.853	4.847	(0.941)	259839	60.0000	58
	26 2,4-Dimethylphenol	107	4.965	4.959	(0.962)	570151	60.0000	60
	144 Tetraethyllead	237	4.906	4.900	(1.203)	242589	60.0000	60
	27 bis(2-Chloroethoxy)methane	93	4.988	4.983	(0.967)	573288	60.0000	59
	28 Benzoic Acid	105	5.176	5.135	(1.003)	157390	60.0000	67(QM)M6 TM 09/29
	29 2,4-Dichlorophenol	162	5.112	5.112	(0.991)	432168	60.0000	61
	30 1,2,4-Trichlorobenzene	180	5.112	5.106	(0.991)	480912	60.0000	60
*	31 Naphthalene-d8	136	5.159	5.153	(1.000)	868019	40.0000	
	32 Naphthalene	128	5.176	5.171	(1.003)	1278115	60.0000	60
	115 alpha-Terpineol	59	5.212	5.200	(1.010)	402944	60.0000	62
	33 4-Chloroaniline	127	5.259	5.253	(1.019)	544711	60.0000	60
	34 Hexachlorobutadiene	225	5.276	5.270	(1.023)	345418	60.0000	61
	102 Caprolactam	113	5.617	5.570	(1.089)	141491	60.0000	56
	35 4-Chloro-3-Methylphenol	107	5.746	5.740	(1.114)	544289	60.0000	62
	36 2-Methylnaphthalene	142	5.752	5.746	(1.115)	1364854	60.0000	61
	114 1-Methylnaphthalene	142	5.829	5.823	(1.130)	880715	60.0000	59
	38 Hexachlorocyclopentadiene	237	5.870	5.870	(0.889)	319866	60.0000	74
	112 1,2,4,5-Tetrachlorobenzene	216	5.887	5.881	(0.891)	497612	60.0000	59
	39 2,4,6-Trichlorophenol	196	6.028	6.022	(0.913)	359822	60.0000	60
	40 2,4,5-Trichlorophenol	196	6.093	6.093	(0.923)	375573	60.0000	61
$	41 2-Fluorobiphenyl	172	6.058	6.052	(0.917)	1153961	60.0000	59
	98 1,1'-Biphenyl	154	6.140	6.134	(0.930)	1280787	60.0000	60
	42 2-Chloronaphthalene	162	6.152	6.146	(0.931)	972037	60.0000	60
	43 2-Nitroaniline	65	6.275	6.269	(0.950)	360124	60.0000	58
	44 Dimethylphthalate	163	6.422	6.410	(0.972)	1232664	60.0000	60
	45 2,6-Dinitrotoluene	165	6.475	6.463	(0.980)	283982	60.0000	58
	46 Acenaphthylene	152	6.487	6.481	(0.982)	1567195	60.0000	59
	47 3-Nitroaniline	138	6.628	6.616	(1.004)	289208	60.0000	57
*	48 Acenaphthene-d10	164	6.604	6.598	(1.000)	599968	40.0000	
	49 Acenaphthene	153	6.633	6.628	(1.004)	1050194	60.0000	61
	50 2,4-Dinitrophenol	184	6.710	6.704	(1.016)	139770	60.0000	64(M)M6 TM 09/29
	51 4-Nitrophenol	109	6.886	6.886	(1.043)	249378	60.0000	66
	53 2,4-Dinitrotoluene	165	6.804	6.792	(1.030)	394767	60.0000	59
	52 Dibenzofuran	168	6.774	6.769	(1.026)	1390293	60.0000	59
	110 2,3,4,6-Tetrachlorophenol	232	6.916	6.910	(1.047)	292404	60.0000	55
	54 Diethylphthalate	149	6.992	6.980	(1.059)	1207097	60.0000	58
	56 4-Chlorophenyl-phenylether	204	7.057	7.051	(1.069)	689912	60.0000	62
	55 Fluorene	166	7.057	7.051	(1.069)	1288061	60.0000	61
	57 4-Nitroaniline	138	7.145	7.121	(1.082)	241510	60.0000	55
	58 4,6-Dinitro-2-methylphenol	198	7.151	7.133	(0.914)	245037	60.0000	60
	59 N-Nitrosodiphenylamine	169	7.174	7.168	(0.917)	1089212	60.0000	60
	97 Azobenzene	77	7.192	7.186	(0.920)	1580123	60.0000	63
$	60 2,4,6-Tribromophenol	330	7.268	7.262	(0.929)	176027	60.0000	61
	61 4-Bromophenyl-phenylether	248	7.456	7.450	(0.953)	392336	60.0000	60
	62 Hexachlorobenzene	284	7.497	7.491	(0.959)	391409	60.0000	61
	100 Atrazine	200	7.638	7.621	(0.977)	401846	60.0000	61
	111 Pentachloronitrobenzene	237	7.679	7.674	(0.982)	208408	60.0000	60

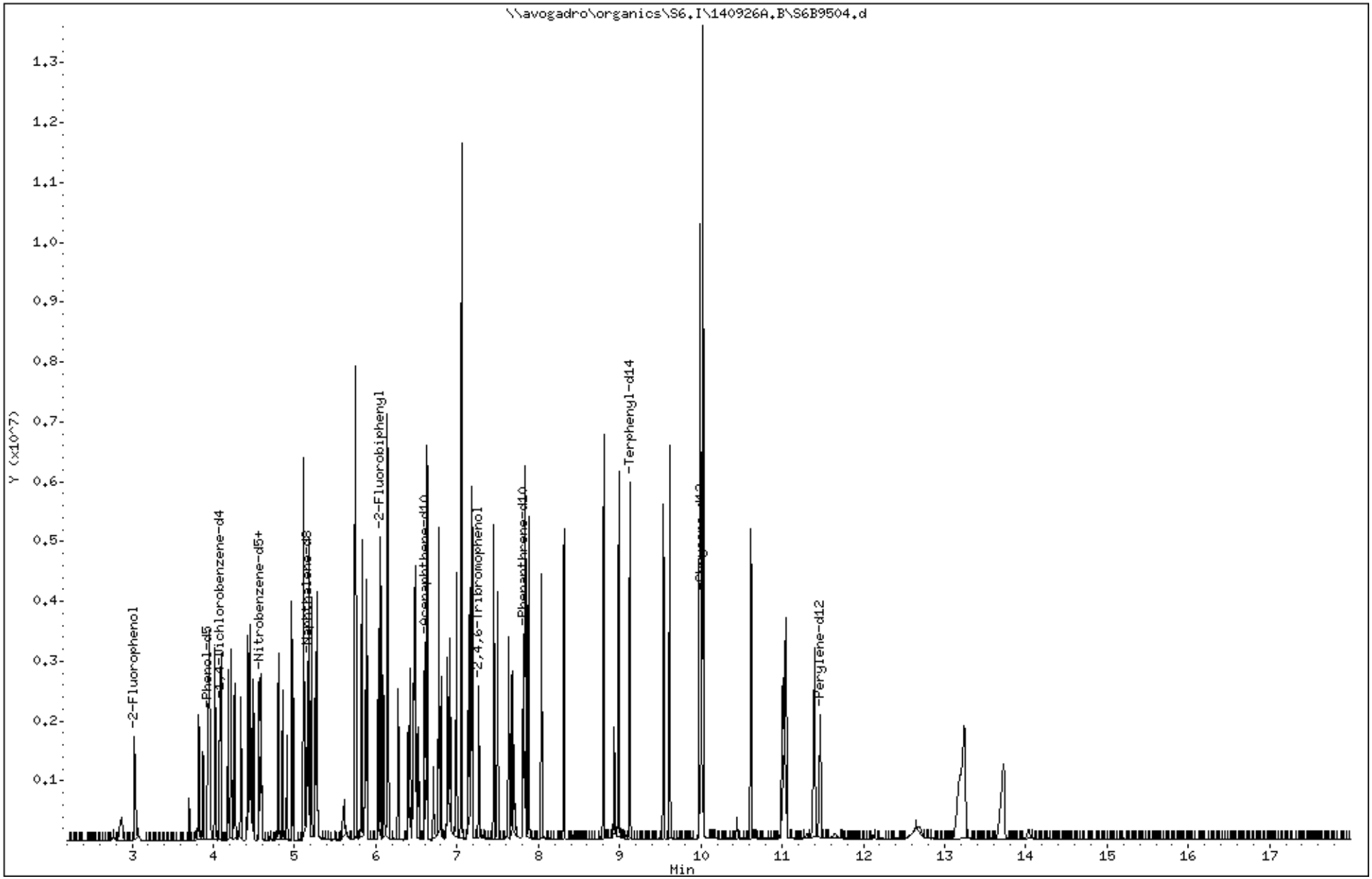
Data File: \\avogadro\organics\S6.I\140926A.B\S6B9504.d
Report Date: 29-Sep-2014 10:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	63 Pentachlorophenol	266	7.703	7.697	(0.985)	159541	60.0000	66
*	64 Phenanthrene-d10	188	7.820	7.815	(1.000)	1265290	40.0000	
	65 Phenanthrene	178	7.838	7.832	(1.002)	1834572	60.0000	60
	66 Anthracene	178	7.885	7.873	(1.008)	1906401	60.0000	61
	67 Carbazole	167	8.044	8.032	(1.029)	1581621	60.0000	58
	68 Di-n-butylphthalate	149	8.320	8.314	(1.064)	2104766	60.0000	60
	69 Fluoranthene	202	8.807	8.802	(1.126)	2219122	60.0000	59
	70 Benzidine	184	8.937	8.931	(0.893)	503426	60.0000	41
	71 Pyrene	202	8.990	8.984	(0.898)	2273937	60.0000	60
$	72 Terphenyl-d14	244	9.125	9.119	(0.912)	1566836	60.0000	61
	73 Butylbenzylphthalate	149	9.542	9.536	(0.954)	989731	60.0000	60
	74 3,3'-Dichlorobenzidine	252	9.988	9.977	(0.998)	735075	60.0000	56
	75 Benzo(a)anthracene	228	9.988	9.977	(0.998)	2434257	60.0000	60
	78 bis(2-Ethylhexyl)phthalate	149	10.030	10.024	(1.002)	1555671	60.0000	63
*	76 Chrysene-d12	240	10.006	9.994	(1.000)	1428042	40.0000	
	77 Chrysene	228	10.030	10.012	(1.002)	2139070	60.0000	61
	79 Di-n-octylphthalate	149	10.617	10.605	(0.926)	2421039	60.0000	64
	80 Benzo(b)fluoranthene	252	11.011	10.993	(0.960)	2142301	60.0000	62
	81 Benzo(k)fluoranthene	252	11.046	11.028	(0.963)	1984568	60.0000	61
	82 Benzo(a)pyrene	252	11.404	11.381	(0.994)	1870896	60.0000	60
*	83 Perylene-d12	264	11.469	11.463	(1.000)	1154059	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	13.191	13.161	(1.150)	1679580	60.0000	55
	85 Dibenzo(a,h)anthracene	278	13.249	13.208	(1.155)	1578393	60.0000	55
	86 Benzo(g,h,i)perylene	276	13.731	13.690	(1.197)	1522572	60.0000	54

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

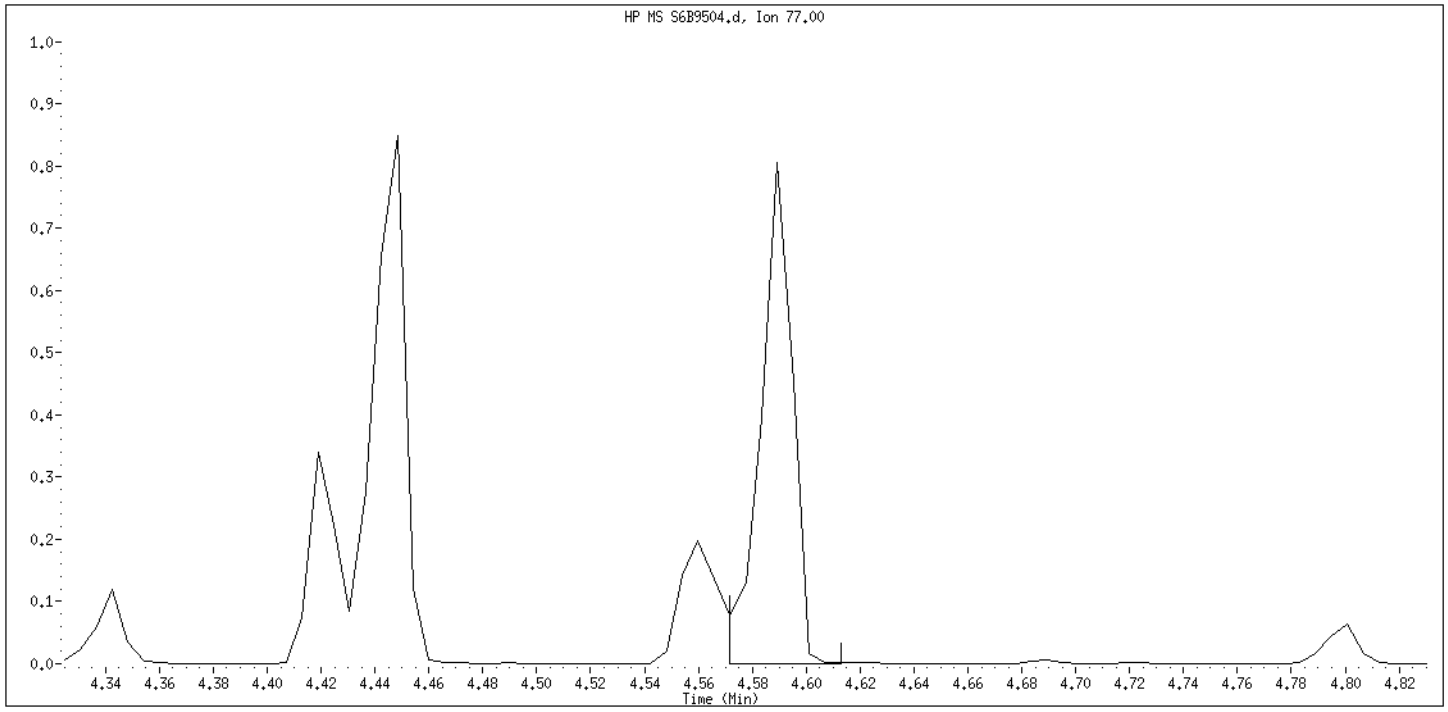
Data File: \\avogadro\organics\S6.I\140926A.B\S6B9504.d
Date : 26-SEP-2014 18:47
Client ID: SSTD0606L
Instrument: S6.i
Sample Info: SSTD0606L,SSTD0606L
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: Rxi-5Sil MS
Column diameter: 0.25



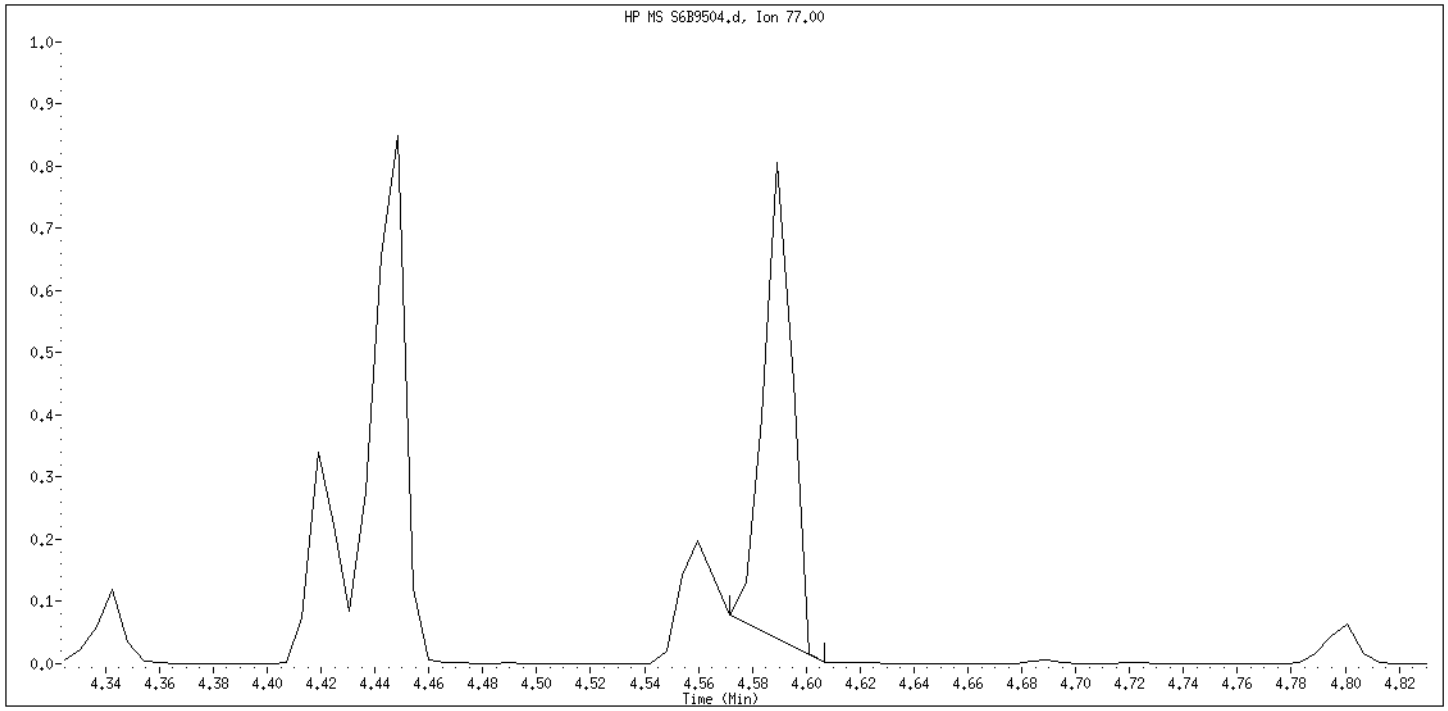
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9504.d

Lab ID: SSTD0606L Client ID: SSTD0606L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 18:47 Operator: TM SRC: TM

Manual Integration Nitrobenzene Ret Time: 4.589 min, Range: 4.572 to 4.613 min Response: 663759



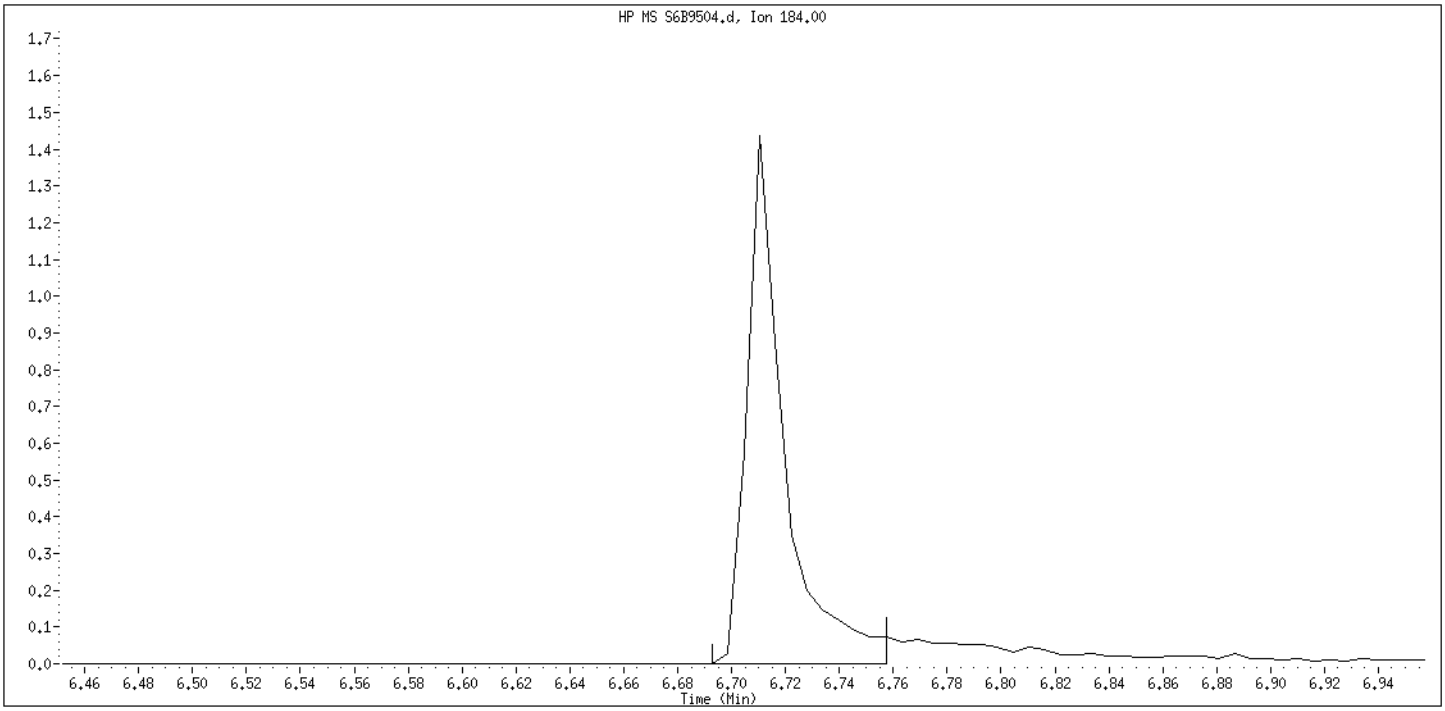
Original Integration Nitrobenzene Ret Time: 4.589 min, Range: 4.572 to 4.607 min Response: 563740



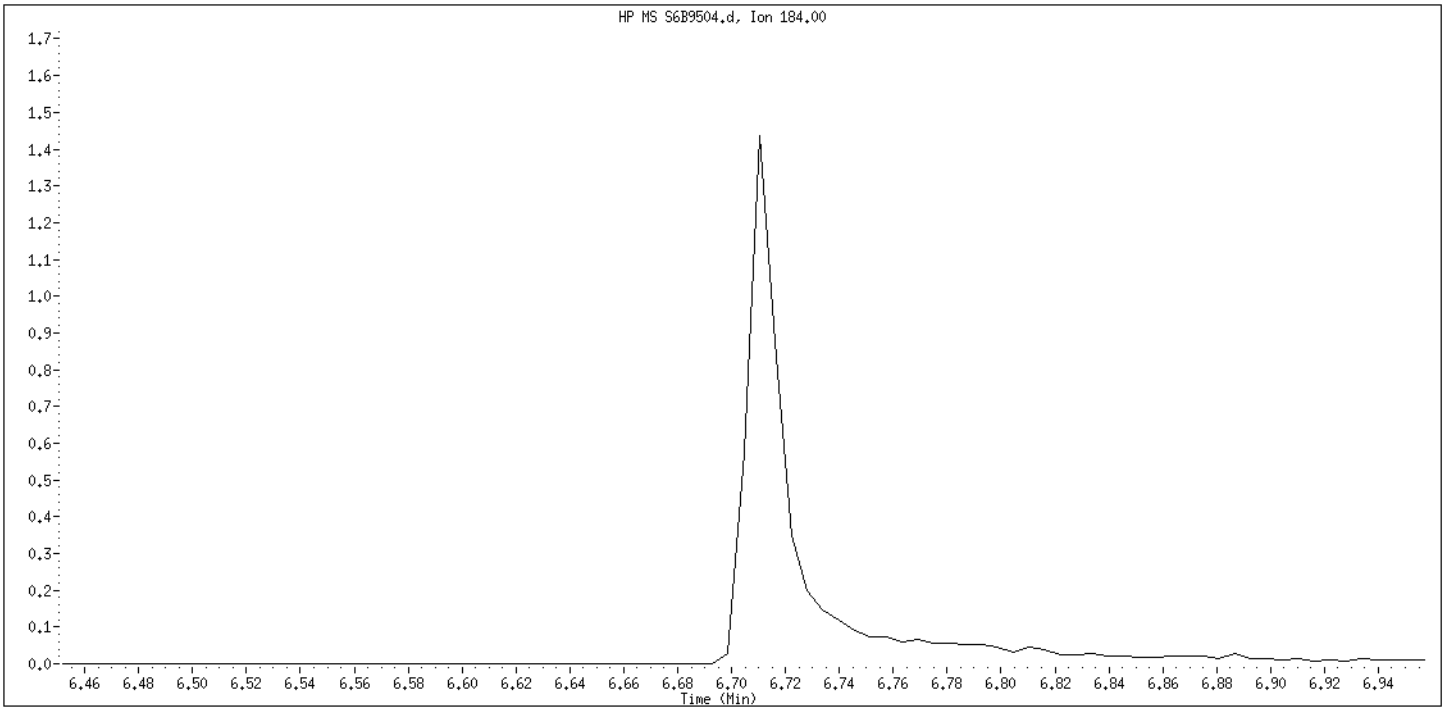
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9504.d

Lab ID: SSTD0606L Client ID: SSTD0606L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 18:47 Operator: TM SRC: TM

Manual Integration 2,4-Dinitrophenol Ret Time: 6.710 min, Range: 6.693 to 6.757 min Response: 139770



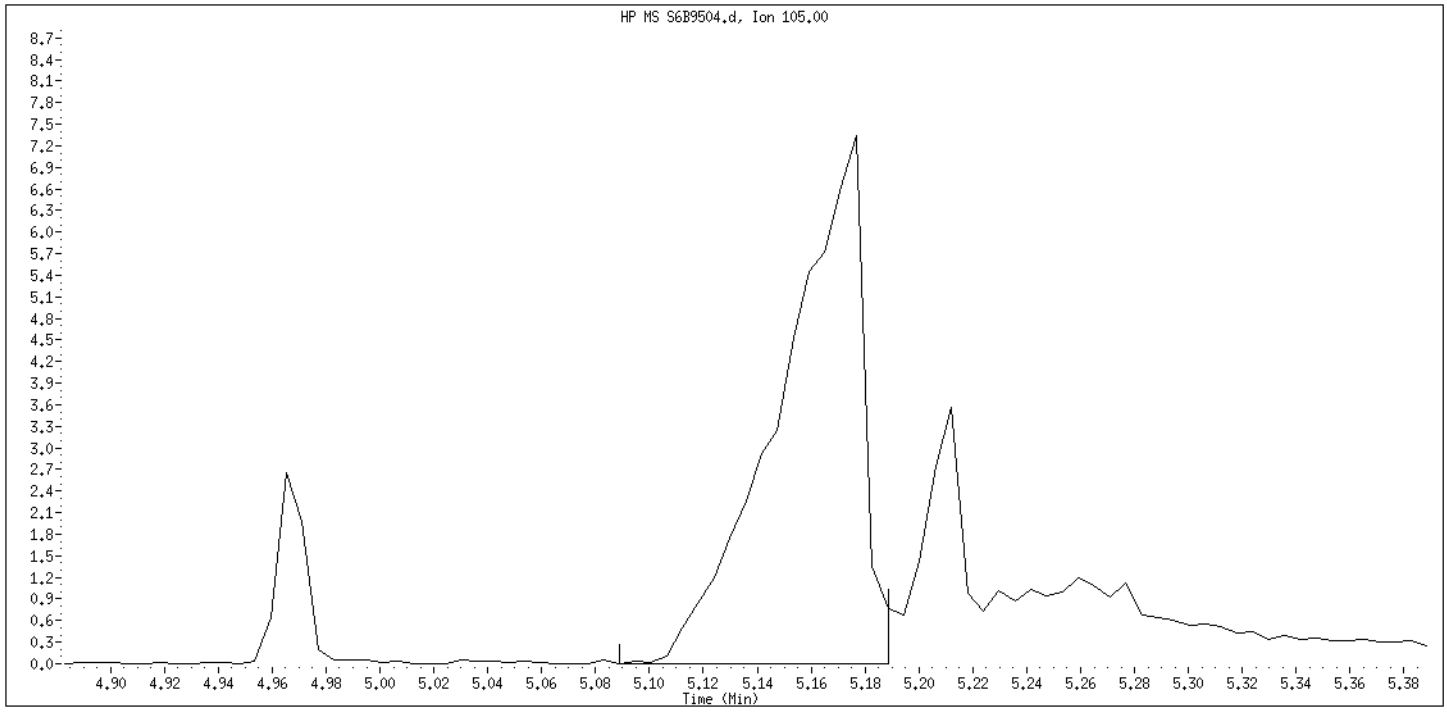
Original Integration 2,4-Dinitrophenol Ret Time: 0.000 min, Range: 0.000 to 0.000 min Response: 0



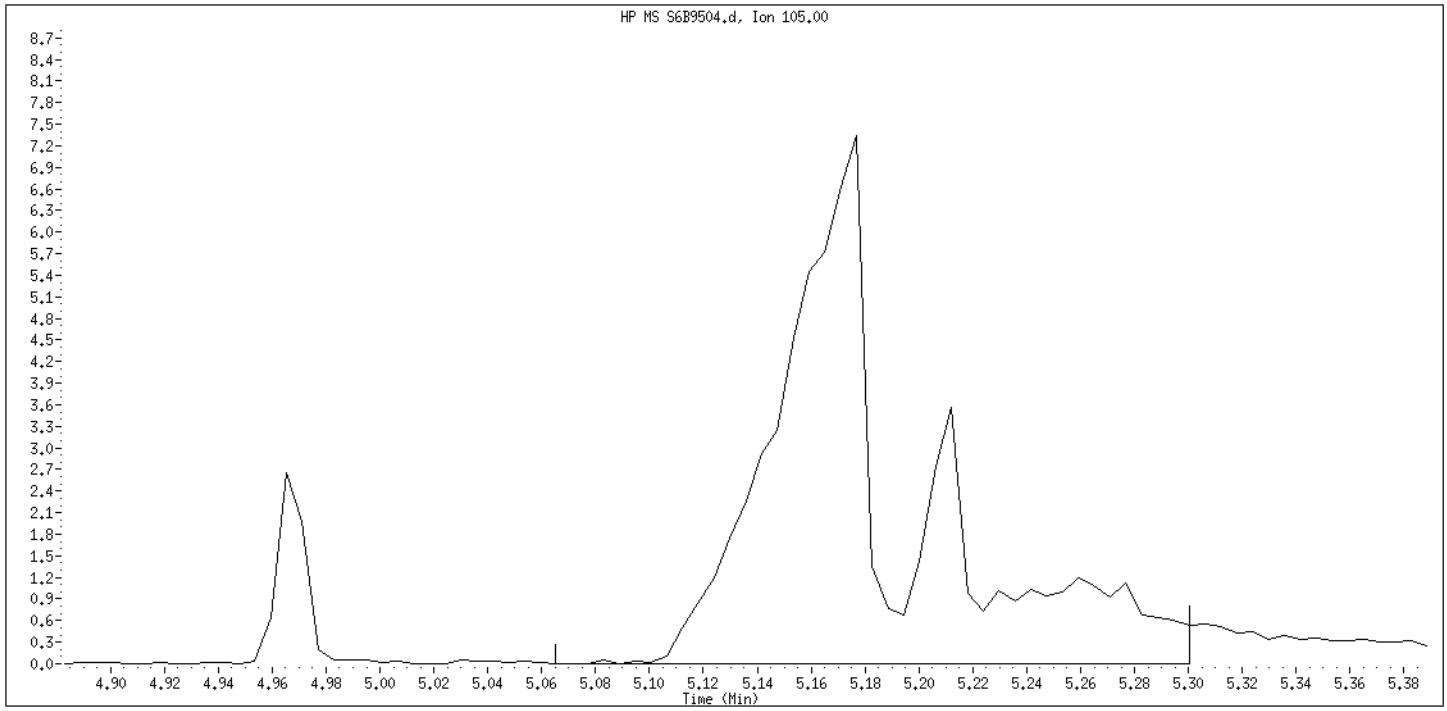
Manual Integration Report Data File: \\avogadro\organics\S6.I\140926A.B\S6B9504.d

Lab ID: SSTD0606L Client ID: SSTD0606L Inj Vol: 1 uL
Inj Date: 26-SEP-2014 18:47 Operator: TM SRC: TM

Manual Integration Benzoic Acid Ret Time: 5.177 min, Range: 5.089 to 5.189 min Response: 157390



Original Integration Benzoic Acid Ret Time: 5.177 min, Range: 5.065 to 5.300 min Response: 234402



7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date: 10/27/2014 Time: 15:27

Lab File ID: S6B9961.D Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(SSTD020##) SSTD0256N Init. Calib. Time(s): 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenol	1.625	1.676	0.800	3.1	20.0
Bis(2-chloroethyl)ether	0.812	0.995	0.700	22.6	20.0
2-Chlorophenol	1.289	1.339	0.800	3.8	20.0
2-Methylphenol	1.211	1.235	0.700	2.0	20.0
2,2´-oxybis(1-Chloropropane)	1.121	1.086	0.010	-3.1	20.0
4-Methylphenol	1.236	1.283	0.600	3.8	20.0
N-Nitroso-di-n-propylamine	1.142	1.164	0.500	2.0	20.0
Hexachloroethane	0.627	0.689	0.300	9.9	20.0
Nitrobenzene	0.575	0.522	0.200	-9.2	20.0
Isophorone	0.746	0.826	0.400	10.8	20.0
2-Nitrophenol	0.208	0.228	0.100	9.5	20.0
2,4-Dimethylphenol	0.436	0.478	0.200	9.5	20.0
2,4-Dichlorophenol	0.326	0.348	0.200	6.8	20.0
Naphthalene	0.975	1.055	0.700	8.2	20.0
4-Chloroaniline	0.420	0.406	0.010	-3.5	20.0
Bis(2-chloroethoxy)methane	0.445	0.459	0.300	3.3	20.0
Hexachlorobutadiene	0.262	0.292	0.010	11.7	20.0
4-Chloro-3-methylphenol	0.401	0.415	0.200	3.6	20.0
2-Methylnaphthalene	1.028	0.830	0.400	-19.3	20.0
Hexachlorocyclopentadiene	0.288	0.372	0.050	29.4	20.0
2,4,6-Trichlorophenol	0.400	0.462	0.200	15.6	20.0
2,4,5-Trichlorophenol	0.416	0.486	0.200	16.7	20.0
2-Chloronaphthalene	1.073	1.156	0.800	7.8	20.0
2-Nitroaniline	0.417	0.471	0.010	13.1	20.0
Dimethylphthalate	1.372	1.587	0.010	15.7	20.0
Acenaphthylene	1.758	1.887	0.900	7.4	20.0
2,6-Dinitrotoluene	0.327	0.356	0.200	8.9	20.0
3-Nitroaniline	0.337	0.365	0.010	8.3	20.0
Acenaphthene	1.155	1.264	0.900	9.4	20.0
2,4-Dinitrophenol	0.144	0.169	0.010	17.2	20.0
4-Nitrophenol	0.250	0.310	0.010	23.8	20.0
Dibenzofuran	1.565	1.710	0.800	9.3	20.0
2,4-Dinitrotoluene	0.444	0.499	0.200	12.4	20.0
Diethylphthalate	1.381	1.586	0.010	14.8	20.0
4-Chlorophenyl-phenylether	0.748	0.782	0.400	4.5	20.0
Fluorene	1.414	1.494	0.900	5.7	20.0
4-Nitroaniline	0.286	0.340	0.010	18.9	20.0
4,6-Dinitro-2-methylphenol	0.129	0.142	0.010	9.7	20.0
N-Nitrosodiphenylamine	0.569	0.608	0.010	6.7	20.0
4-Bromophenyl-phenylether	0.206	0.231	0.100	11.9	20.0
Hexachlorobenzene	0.202	0.228	0.100	12.6	20.0
Pentachlorophenol	0.077	0.103	0.050	34.2	20.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date: 10/27/2014 Time: 15:27

Lab File ID: S6B9961.D Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(SSTD020##) SSTD0256N Init. Calib. Time(s): 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenanthrene	0.963	1.049	0.700	9.0	20.0
Anthracene	0.991	1.070	0.700	8.0	20.0
Carbazole	0.860	0.949	0.010	10.4	20.0
Di-n-butylphthalate	1.116	1.267	0.010	13.5	20.0
Fluoranthene	1.197	1.333	0.600	11.4	20.0
Pyrene	1.062	1.073	0.600	1.0	20.0
Butylbenzylphthalate	0.459	0.505	0.010	10.0	20.0
3,3´-Dichlorobenzidine	0.365	0.427	0.010	16.9	20.0
Benzo(a)anthracene	1.137	1.186	0.800	4.3	20.0
Chrysene	0.979	1.005	0.700	2.7	20.0
Bis(2-ethylhexyl)phthalate	0.694	0.715	0.010	3.1	20.0
Di-n-octylphthalate	1.317	1.437	0.010	9.1	20.0
Benzo(b)fluoranthene	1.191	1.303	0.700	9.3	20.0
Benzo(k)fluoranthene	1.128	1.196	0.700	6.0	20.0
Benzo(a)pyrene	1.075	1.154	0.700	7.3	20.0
Indeno(1,2,3-cd)pyrene	1.062	1.135	0.500	6.8	20.0
Dibenzo(a,h)anthracene	0.997	1.120	0.400	12.3	20.0
Benzo(g,h,i)perylene	0.980	1.111	0.500	13.4	20.0

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date: 10/27/2014 Time: 15:27

Lab File ID: S6B9961.D Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(SSTD020##) SSTD0256N Init. Calib. Time(s): 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF025	MIN RRF	%D	MAX %D
Nitrobenzene-d5	0.448	0.492	0.010	9.7	20.0
2-Fluorobiphenyl	1.295	1.408	0.010	8.7	20.0
Terphenyl-d14	0.716	0.732	0.010	2.2	20.0
Phenol-d5	1.637	1.678	0.010	2.5	20.0
2-Fluorophenol	1.190	1.233	0.010	3.6	20.0
2,4,6-Tribromophenol	0.091	0.109	0.010	20.0	20.0

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date: 10/28/2014 Time: 10:22

Lab File ID: S6B9981.D Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(SSTD020##) SSTD0256O Init. Calib. Time(s): 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenol	1.625	1.726	0.800	6.2	20.0
Bis(2-chloroethyl)ether	0.812	1.010	0.700	24.4	20.0
2-Chlorophenol	1.289	1.307	0.800	1.4	20.0
2-Methylphenol	1.211	1.265	0.700	4.4	20.0
2,2´-oxybis(1-Chloropropane)	1.121	1.118	0.010	-0.3	20.0
4-Methylphenol	1.236	1.309	0.600	5.9	20.0
N-Nitroso-di-n-propylamine	1.142	1.151	0.500	0.8	20.0
Hexachloroethane	0.627	0.688	0.300	9.7	20.0
Nitrobenzene	0.575	0.519	0.200	-9.7	20.0
Isophorone	0.746	0.848	0.400	13.7	20.0
2-Nitrophenol	0.208	0.220	0.100	5.8	20.0
2,4-Dimethylphenol	0.436	0.467	0.200	7.0	20.0
2,4-Dichlorophenol	0.326	0.356	0.200	9.2	20.0
Naphthalene	0.975	1.072	0.700	9.9	20.0
4-Chloroaniline	0.420	0.399	0.010	-5.0	20.0
Bis(2-chloroethoxy)methane	0.445	0.454	0.300	2.0	20.0
Hexachlorobutadiene	0.262	0.288	0.010	9.9	20.0
4-Chloro-3-methylphenol	0.401	0.426	0.200	6.3	20.0
2-Methylnaphthalene	1.028	0.852	0.400	-17.1	20.0
Hexachlorocyclopentadiene	0.288	0.308	0.050	7.1	20.0
2,4,6-Trichlorophenol	0.400	0.427	0.200	6.8	20.0
2,4,5-Trichlorophenol	0.416	0.449	0.200	7.9	20.0
2-Chloronaphthalene	1.073	1.118	0.800	4.2	20.0
2-Nitroaniline	0.417	0.464	0.010	11.3	20.0
Dimethylphthalate	1.372	1.466	0.010	6.9	20.0
Acenaphthylene	1.758	1.768	0.900	0.5	20.0
2,6-Dinitrotoluene	0.327	0.343	0.200	4.9	20.0
3-Nitroaniline	0.337	0.329	0.010	-2.5	20.0
Acenaphthene	1.155	1.185	0.900	2.6	20.0
2,4-Dinitrophenol	0.144	0.104	0.010	-28.0	20.0
4-Nitrophenol	0.250	0.278	0.010	11.2	20.0
Dibenzofuran	1.565	1.635	0.800	4.5	20.0
2,4-Dinitrotoluene	0.444	0.473	0.200	6.5	20.0
Diethylphthalate	1.381	1.523	0.010	10.3	20.0
4-Chlorophenyl-phenylether	0.748	0.765	0.400	2.3	20.0
Fluorene	1.414	1.435	0.900	1.5	20.0
4-Nitroaniline	0.286	0.334	0.010	16.8	20.0
4,6-Dinitro-2-methylphenol	0.129	0.104	0.010	-19.8	20.0
N-Nitrosodiphenylamine	0.569	0.605	0.010	6.2	20.0
4-Bromophenyl-phenylether	0.206	0.223	0.100	8.1	20.0
Hexachlorobenzene	0.202	0.220	0.100	8.8	20.0
Pentachlorophenol	0.077	0.095	0.050	24.4	20.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date: 10/28/2014 Time: 10:22

Lab File ID: S6B9981.D Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(SSTD020##) SSTD0256O Init. Calib. Time(s): 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF025	MIN RRF	%D	MAX %D
Phenanthrene	0.963	1.043	0.700	8.3	20.0
Anthracene	0.991	1.066	0.700	7.6	20.0
Carbazole	0.860	0.960	0.010	11.7	20.0
Di-n-butylphthalate	1.116	1.255	0.010	12.4	20.0
Fluoranthene	1.197	1.317	0.600	10.0	20.0
Pyrene	1.062	1.120	0.600	5.4	20.0
Butylbenzylphthalate	0.459	0.496	0.010	8.2	20.0
3,3´-Dichlorobenzidine	0.365	0.436	0.010	19.3	20.0
Benzo(a)anthracene	1.137	1.224	0.800	7.6	20.0
Chrysene	0.979	1.020	0.700	4.2	20.0
Bis(2-ethylhexyl)phthalate	0.694	0.731	0.010	5.4	20.0
Di-n-octylphthalate	1.317	1.475	0.010	12.1	20.0
Benzo(b)fluoranthene	1.191	1.246	0.700	4.6	20.0
Benzo(k)fluoranthene	1.128	1.265	0.700	12.1	20.0
Benzo(a)pyrene	1.075	1.151	0.700	7.0	20.0
Indeno(1,2,3-cd)pyrene	1.062	1.101	0.500	3.6	20.0
Dibenzo(a,h)anthracene	0.997	1.033	0.400	3.6	20.0
Benzo(g,h,i)perylene	0.980	1.008	0.500	2.9	20.0

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Instrument ID: S6 Calibration Date: 10/28/2014 Time: 10:22

Lab File ID: S6B9981.D Init. Calib. Date(s): 09/26/2014 09/26/2014

EPA Sample No.(SSTD020##) SSTD0256O Init. Calib. Time(s): 16:51 18:47

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF025	MIN RRF	%D	MAX %D
Nitrobenzene-d5	0.448	0.483	0.010	7.8	20.0
2-Fluorobiphenyl	1.295	1.342	0.010	3.6	20.0
Terphenyl-d14	0.716	0.749	0.010	4.5	20.0
Phenol-d5	1.637	1.723	0.010	5.3	20.0
2-Fluorophenol	1.190	1.247	0.010	4.8	20.0
2,4,6-Tribromophenol	0.091	0.106	0.010	17.0	20.0

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9961.d
Report Date: 28-Oct-2014 12:11

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9961.d
Lab Smp Id: SSTD0256N Client Smp ID: SSTD0256N
Inj Date : 27-OCT-2014 15:27
Operator : CLM   SRC: CLM Inst ID: S6.i
Smp Info : SSTD0256N,SSTD0256N
Misc Info : 2,3
Comment   :
Method   : \\Avogadro\Organics\S6.I\141027A.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 109 1,4-Dioxane-d8	96	1.134	1.134	(0.295)	48110	25.0000	28
108 1,4-Dioxane	58	1.145	1.145	(0.298)	26878	25.0000	25
1 N-Nitrosodimethylamine	74	1.345	1.345	(0.350)	76473	25.0000	26
143 Tetramethyllead	253	1.339	1.339	(0.349)	33489	25.0000	30(QM)
2 Pyridine	79	1.363	1.363	(0.355)	135022	25.0000	25(QM)
$ 3 2-Fluorophenol	112	2.720	2.720	(0.708)	126903	25.0000	26
101 Benzaldehyde	77	3.460	3.460	(0.901)	99295	25.0000	30
7 Aniline	66	3.572	3.572	(0.930)	83490	25.0000	25
$ 5 Phenol-d5	99	3.654	3.654	(0.951)	172682	25.0000	26
6 Phenol	94	3.666	3.666	(0.954)	172459	25.0000	26
8 bis(2-Chloroethyl)Ether	63	3.637	3.637	(0.946)	102363	25.0000	31
10 2-Chlorophenol	128	3.695	3.695	(0.962)	137711	25.0000	26
11 1,3-Dichlorobenzene	146	3.784	3.784	(0.985)	151993	25.0000	26
* 12 1,4-Dichlorobenzene-d4	152	3.842	3.842	(1.000)	164609	40.0000	
13 1,4-Dichlorobenzene	146	3.854	3.854	(1.003)	156611	25.0000	26
117 2-Ethyl-1-hexanol	57	3.948	3.948	(1.028)	134544	25.0000	24
15 Benzyl Alcohol	108	4.019	4.019	(1.046)	92701	25.0000	25
16 1,2-Dichlorobenzene	146	3.983	3.983	(1.037)	143602	25.0000	26
18 2,2'-oxybis(1-Chloropropane)	45	4.119	4.119	(1.072)	111725	25.0000	24
17 2-Methylphenol	108	4.166	4.166	(1.084)	127084	25.0000	25

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9961.d
Report Date: 28-Oct-2014 12:11

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)	
	99 Acetophenone	105	4.213	4.213	(1.096)	229268	25.0000	26	
	19 N-Nitroso-di-n-propylamine	70	4.236	4.236	(1.102)	119799	25.0000	26(Q)	
	20 4-Methylphenol	108	4.312	4.312	(1.122)	131983	25.0000	26	
	21 Hexachloroethane	117	4.260	4.260	(1.109)	70896	25.0000	27	
$	22 Nitrobenzene-d5	82	4.336	4.336	(0.880)	181232	25.0000	27	
	23 Nitrobenzene	77	4.354	4.354	(0.883)	192434	25.0000	23	
	24 Isophorone	82	4.565	4.565	(0.926)	304574	25.0000	28	
	25 2-Nitrophenol	139	4.624	4.624	(0.938)	83997	25.0000	27	
	26 2,4-Dimethylphenol	107	4.730	4.730	(0.959)	176056	25.0000	27	
	144 Tetraethyllead	237	4.683	4.683	(1.219)	79757	25.0000	27	
	27 bis(2-Chloroethoxy)methane	93	4.765	4.765	(0.967)	169208	25.0000	26	
	28 Benzoic Acid	105	4.906	4.906	(0.995)	76664	25.0000	48	
	29 2,4-Dichlorophenol	162	4.871	4.871	(0.988)	128216	25.0000	27	
	30 1,2,4-Trichlorobenzene	180	4.888	4.888	(0.992)	143765	25.0000	26	
*	31 Naphthalene-d8	136	4.929	4.929	(1.000)	589712	40.0000		
	32 Naphthalene	128	4.947	4.947	(1.004)	388953	25.0000	27	
	115 alpha-Terpineol	59	4.982	4.982	(1.011)	116315	25.0000	26	
	33 4-Chloroaniline	127	5.029	5.029	(1.020)	149555	25.0000	24	
	34 Hexachlorobutadiene	225	5.053	5.053	(1.025)	107805	25.0000	28	
	102 Caprolactam	113	5.358	5.358	(1.087)	48881	25.0000	28	
	35 4-Chloro-3-Methylphenol	107	5.499	5.499	(1.116)	153031	25.0000	26(Q)	
	36 2-Methylnaphthalene	142	5.523	5.523	(1.120)	305875	25.0000	20(M)M1 CLM 10/28	
	114 1-Methylnaphthalene	142	5.599	5.599	(1.136)	270970	25.0000	27	
	38 Hexachlorocyclopentadiene	237	5.646	5.646	(0.886)	92319	25.0000	32	
	112 1,2,4,5-Tetrachlorobenzene	216	5.664	5.664	(0.888)	152977	25.0000	27	
	39 2,4,6-Trichlorophenol	196	5.793	5.793	(0.909)	114595	25.0000	29	
	40 2,4,5-Trichlorophenol	196	5.852	5.852	(0.918)	120411	25.0000	30	
$	41 2-Fluorobiphenyl	172	5.834	5.834	(0.915)	349090	25.0000	27	
	98 1,1'-Biphenyl	154	5.916	5.916	(0.928)	385594	25.0000	27	
	42 2-Chloronaphthalene	162	5.922	5.922	(0.929)	286575	25.0000	27	
	43 2-Nitroaniline	65	6.040	6.040	(0.947)	116807	25.0000	28	
	44 Dimethylphthalate	163	6.193	6.193	(0.971)	393283	25.0000	29	
	45 2,6-Dinitrotoluene	165	6.245	6.245	(0.980)	88183	25.0000	27	
	46 Acenaphthylene	152	6.257	6.257	(0.982)	467815	25.0000	27	
	47 3-Nitroaniline	138	6.386	6.386	(1.002)	90474	25.0000	27	
*	48 Acenaphthene-d10	164	6.375	6.375	(1.000)	396600	40.0000		
	49 Acenaphthene	153	6.398	6.398	(1.004)	313324	25.0000	27	
	50 2,4-Dinitrophenol	184	6.481	6.481	(1.017)	41960	25.0000	29(Q)	
	51 4-Nitrophenol	109	6.627	6.627	(1.040)	76806	25.0000	31	
	53 2,4-Dinitrotoluene	165	6.575	6.575	(1.031)	123720	25.0000	28	
	52 Dibenzofuran	168	6.545	6.545	(1.027)	423862	25.0000	27	
	110 2,3,4,6-Tetrachlorophenol	232	6.674	6.674	(1.047)	102948	25.0000	30	
	54 Diethylphthalate	149	6.768	6.768	(1.062)	393201	25.0000	29	
	56 4-Chlorophenyl-phenylether	204	6.833	6.833	(1.072)	193751	25.0000	26	
	55 Fluorene	166	6.821	6.821	(1.070)	370312	25.0000	26	
	57 4-Nitroaniline	138	6.892	6.892	(1.081)	84242	25.0000	29	
	58 4,6-Dinitro-2-methylphenol	198	6.909	6.909	(0.912)	77464	25.0000	27	
	59 N-Nitrosodiphenylamine	169	6.939	6.939	(0.916)	331863	25.0000	27	
	97 Azobenzene	77	6.962	6.962	(0.919)	503102	25.0000	29	
$	60 2,4,6-Tribromophenol	330	7.027	7.027	(0.927)	59336	25.0000	30	
	61 4-Bromophenyl-phenylether	248	7.227	7.227	(0.953)	125993	25.0000	28	
	62 Hexachlorobenzene	284	7.262	7.262	(0.958)	124267	25.0000	28	
	100 Atrazine	200	7.403	7.403	(0.977)	113443	25.0000	25	
	111 Pentachloronitrobenzene	237	7.444	7.444	(0.982)	72592	25.0000	30	

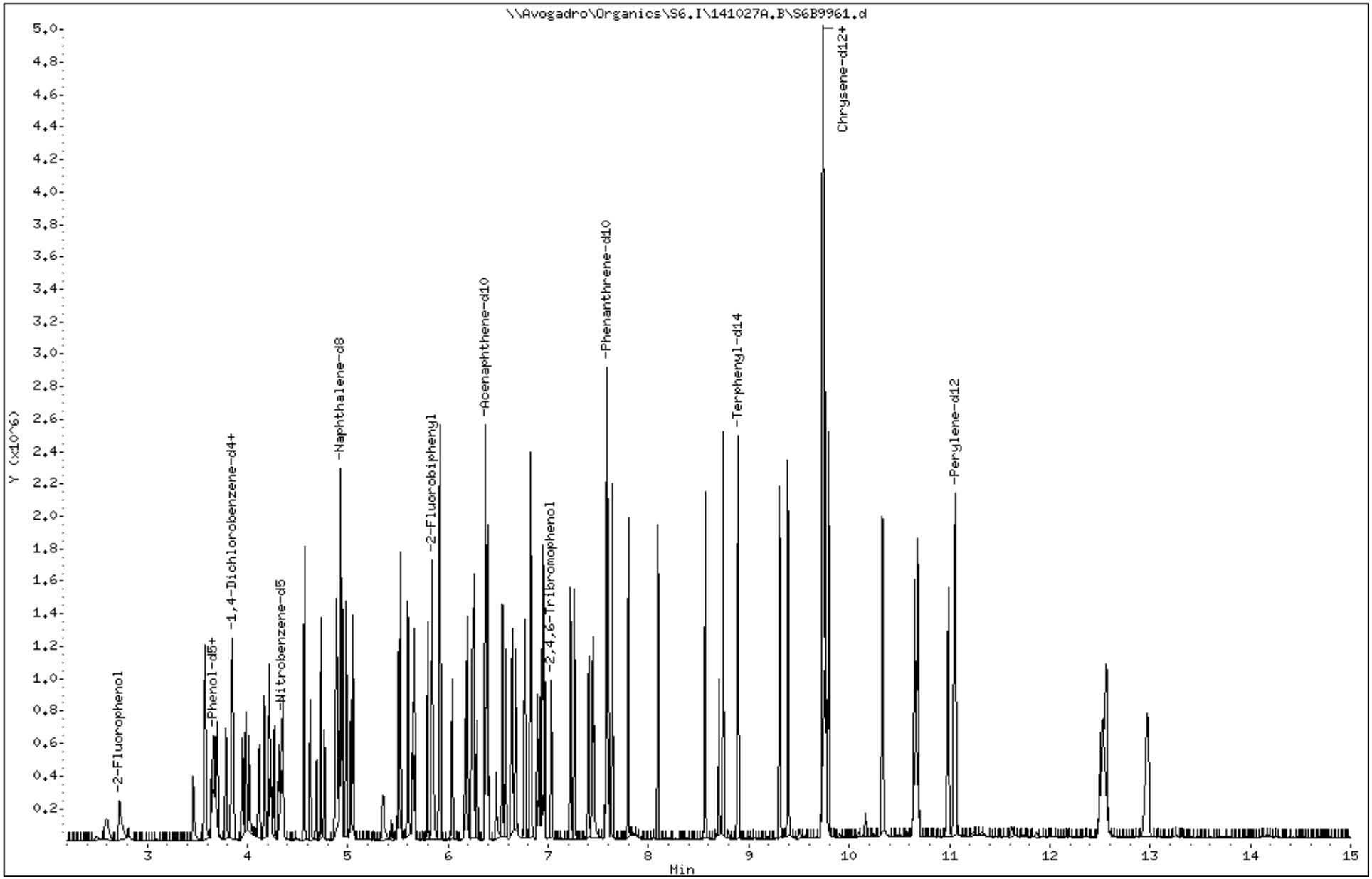
Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9961.d
Report Date: 28-Oct-2014 12:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	63 Pentachlorophenol	266	7.456	7.456	(0.984)	56092	25.0000	34
*	64 Phenanthrene-d10	188	7.579	7.579	(1.000)	873917	40.0000	
	65 Phenanthrene	178	7.597	7.597	(1.002)	573132	25.0000	27
	66 Anthracene	178	7.638	7.638	(1.008)	584478	25.0000	27
	67 Carbazole	167	7.797	7.797	(1.029)	518400	25.0000	28
	68 Di-n-butylphthalate	149	8.090	8.090	(1.067)	692164	25.0000	28
	69 Fluoranthene	202	8.566	8.566	(1.130)	728223	25.0000	28
	70 Benzidine	184	8.701	8.701	(0.893)	264178	25.0000	28
	71 Pyrene	202	8.743	8.743	(0.897)	751596	25.0000	25
$	72 Terphenyl-d14	244	8.889	8.889	(0.912)	512698	25.0000	26
	73 Butylbenzylphthalate	149	9.307	9.307	(0.955)	353522	25.0000	28
	74 3,3'-Dichlorobenzidine	252	9.736	9.736	(0.999)	299108	25.0000	29
	75 Benzo(a)anthracene	228	9.736	9.736	(0.999)	830493	25.0000	26
	78 bis(2-Ethylhexyl)phthalate	149	9.794	9.794	(1.005)	500740	25.0000	26
*	76 Chrysene-d12	240	9.747	9.747	(1.000)	1120240	40.0000	
	77 Chrysene	228	9.765	9.765	(1.002)	703588	25.0000	26
	79 Di-n-octylphthalate	149	10.335	10.335	(0.935)	897252	25.0000	27
	80 Benzo(b)fluoranthene	252	10.658	10.658	(0.964)	813323	25.0000	27
	81 Benzo(k)fluoranthene	252	10.682	10.682	(0.966)	746792	25.0000	26
	82 Benzo(a)pyrene	252	10.987	10.987	(0.994)	720569	25.0000	27
*	83 Perylene-d12	264	11.058	11.058	(1.000)	998974	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	12.521	12.521	(1.132)	708607	25.0000	27
	85 Dibenzo(a,h)anthracene	278	12.568	12.568	(1.137)	699254	25.0000	28
	86 Benzo(g,h,i)perylene	276	12.979	12.979	(1.174)	693787	25.0000	28

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

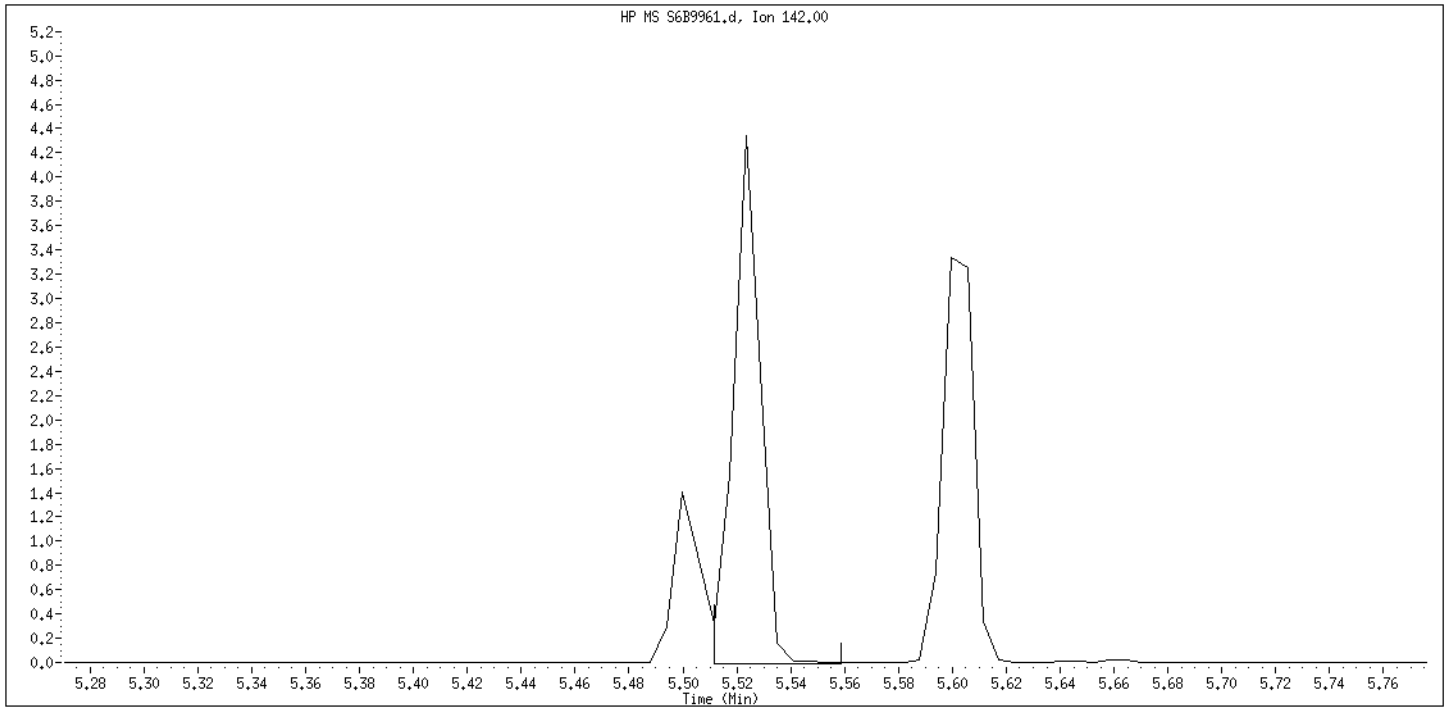
Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9961.d
Date : 27-OCT-2014 15:27
Client ID: SSTD0256N
Instrument: S6.i
Sample Info: SSTD0256N,SSTD0256N
Volume Injected (uL): 1.0
Operator: CLM SRC: CLM
Column phase: Rxi-5Sil MS
Column diameter: 0.25



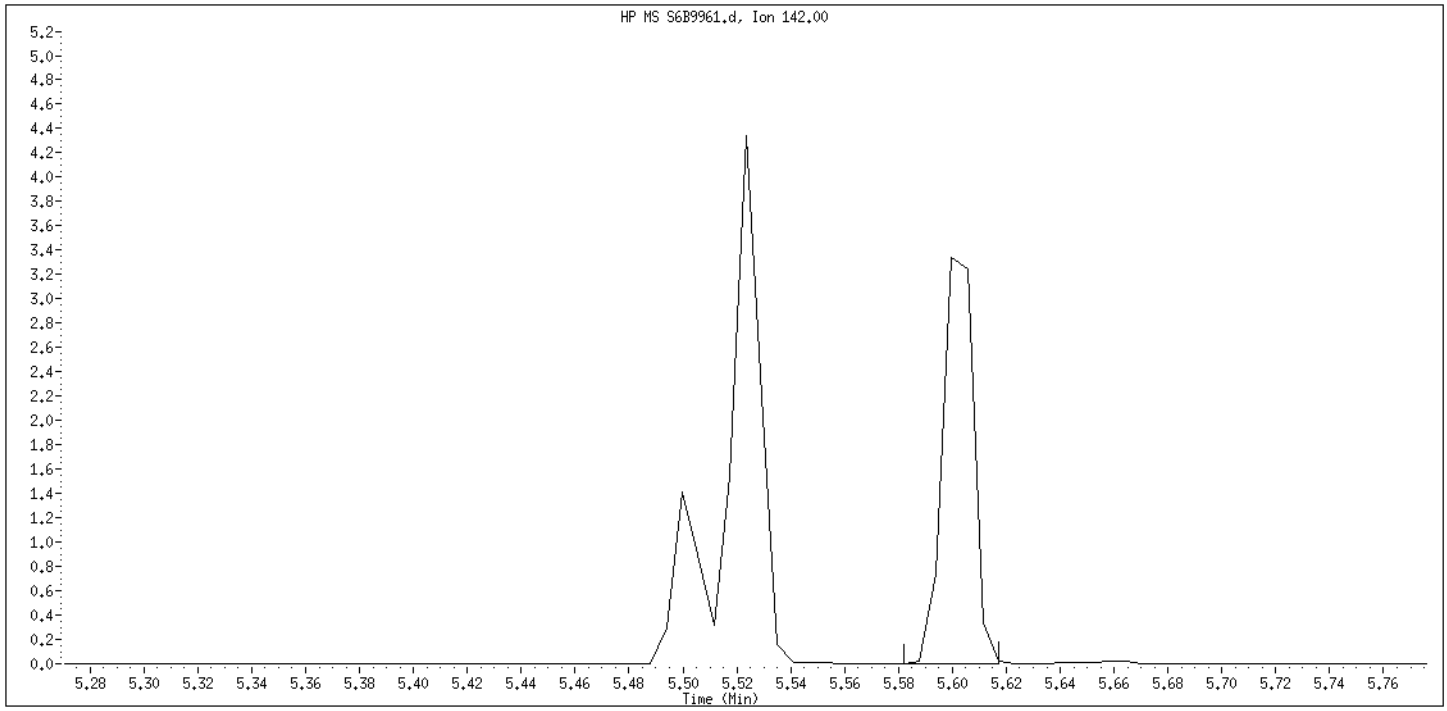
Manual Integration Report Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9961.d

Lab ID: SSTD0256N Client ID: SSTD0256N Inj Vol: 1 uL
Inj Date: 27-OCT-2014 15:27 Operator: CLM SRC: CLM

Manual Integration 2-Methylnaphthalene Ret Time: 5.523 min, Range: 5.512 to 5.559 min Response: 305875



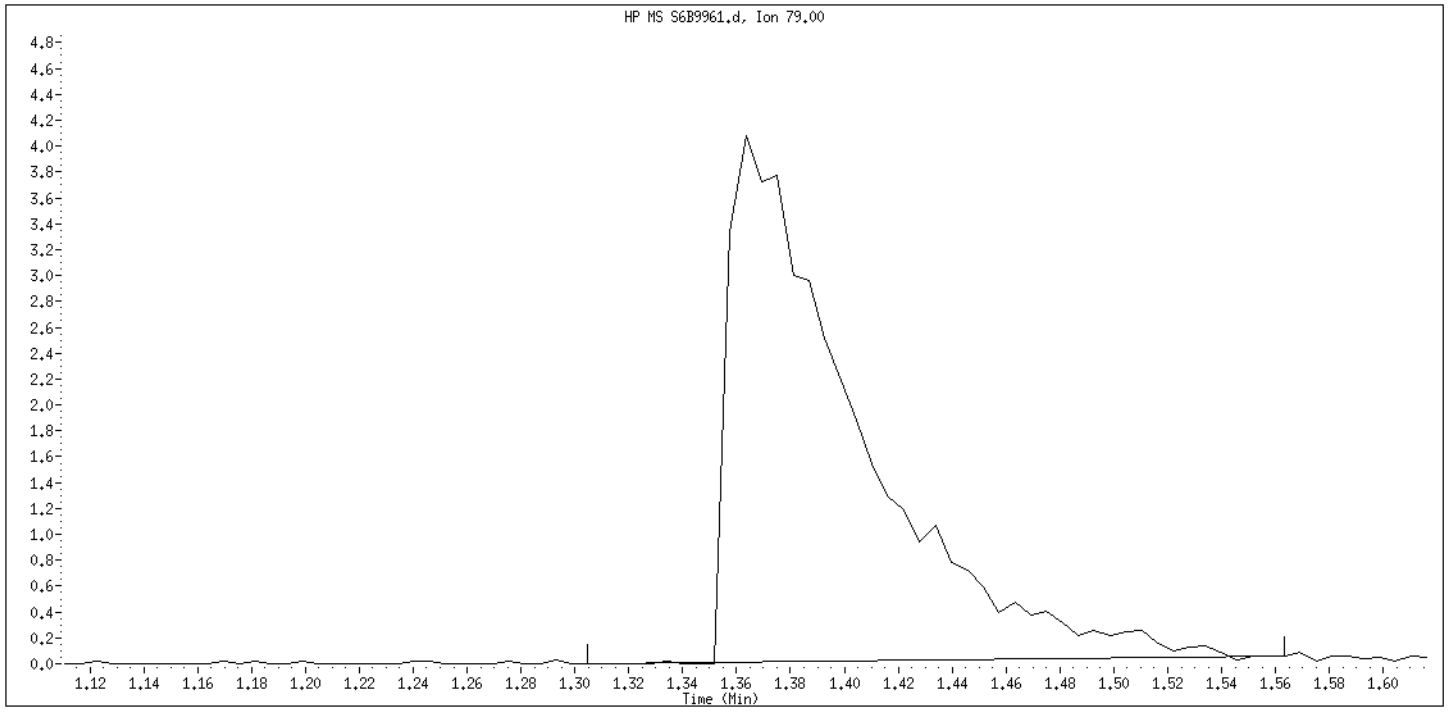
Original Integration 2-Methylnaphthalene Ret Time: 5.600 min, Range: 5.582 to 5.617 min Response: 271733



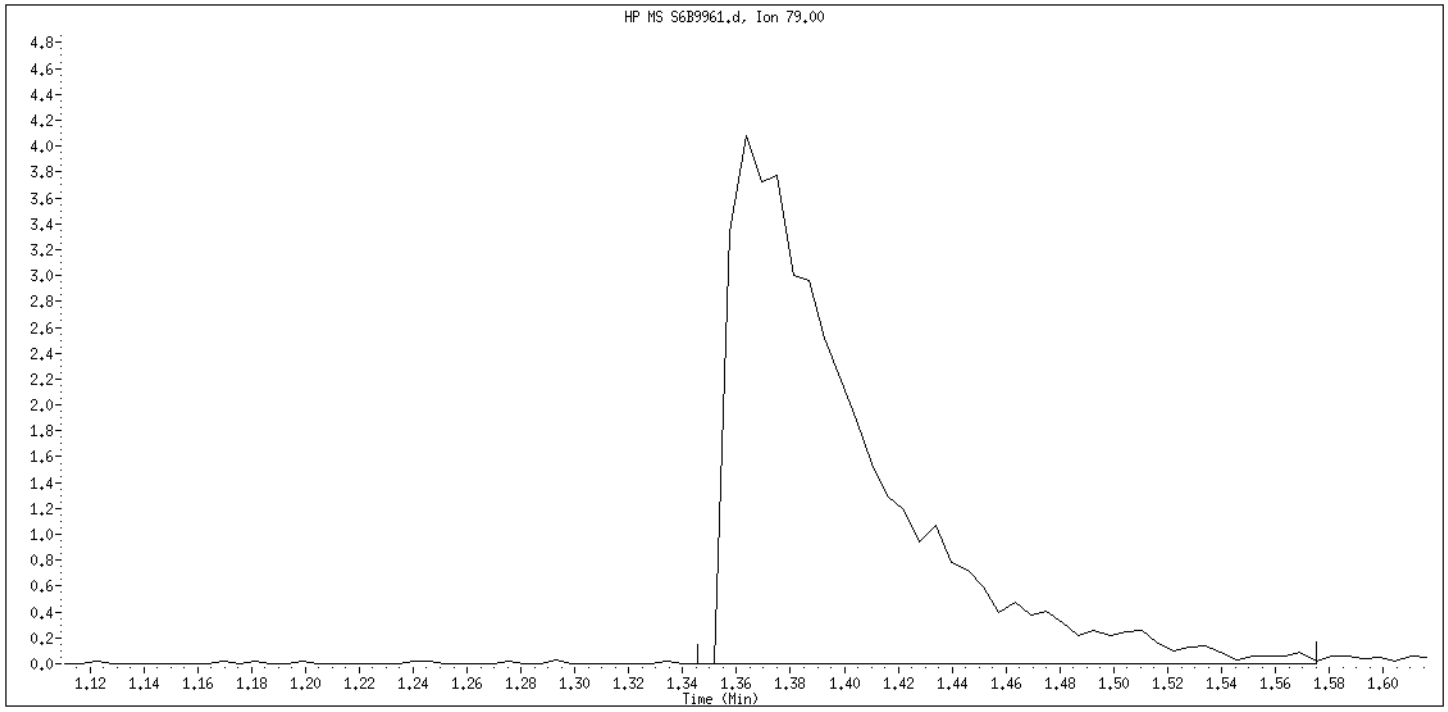
Manual Integration Report Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9961.d

Lab ID: SSTD0256N Client ID: SSTD0256N Inj Vol: 1 uL
Inj Date: 27-OCT-2014 15:27 Operator: CLM SRC: CLM

Manual Integration Pyridine Ret Time: 1.363 min, Range: 1.305 to 1.563 min Response: 135022



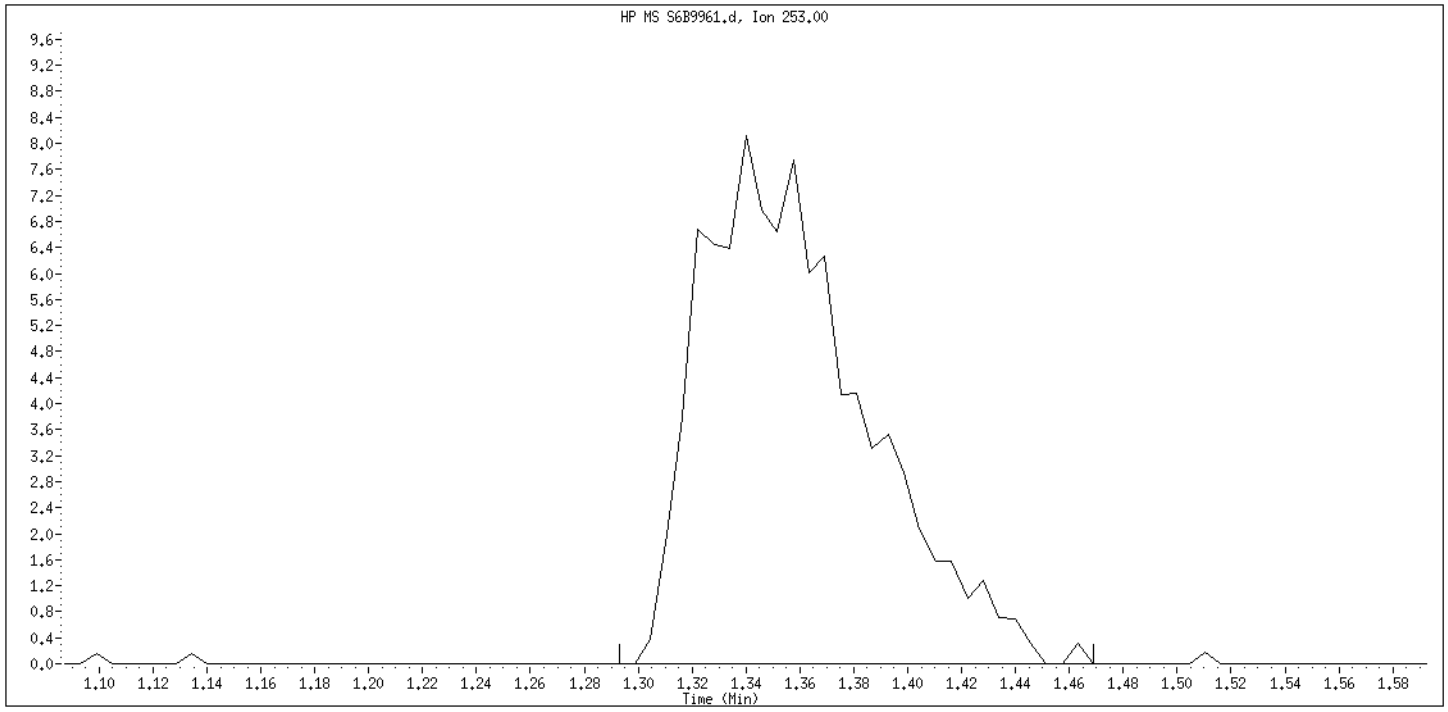
Original Integration Pyridine Ret Time: 1.363 min, Range: 1.346 to 1.575 min Response: 139967



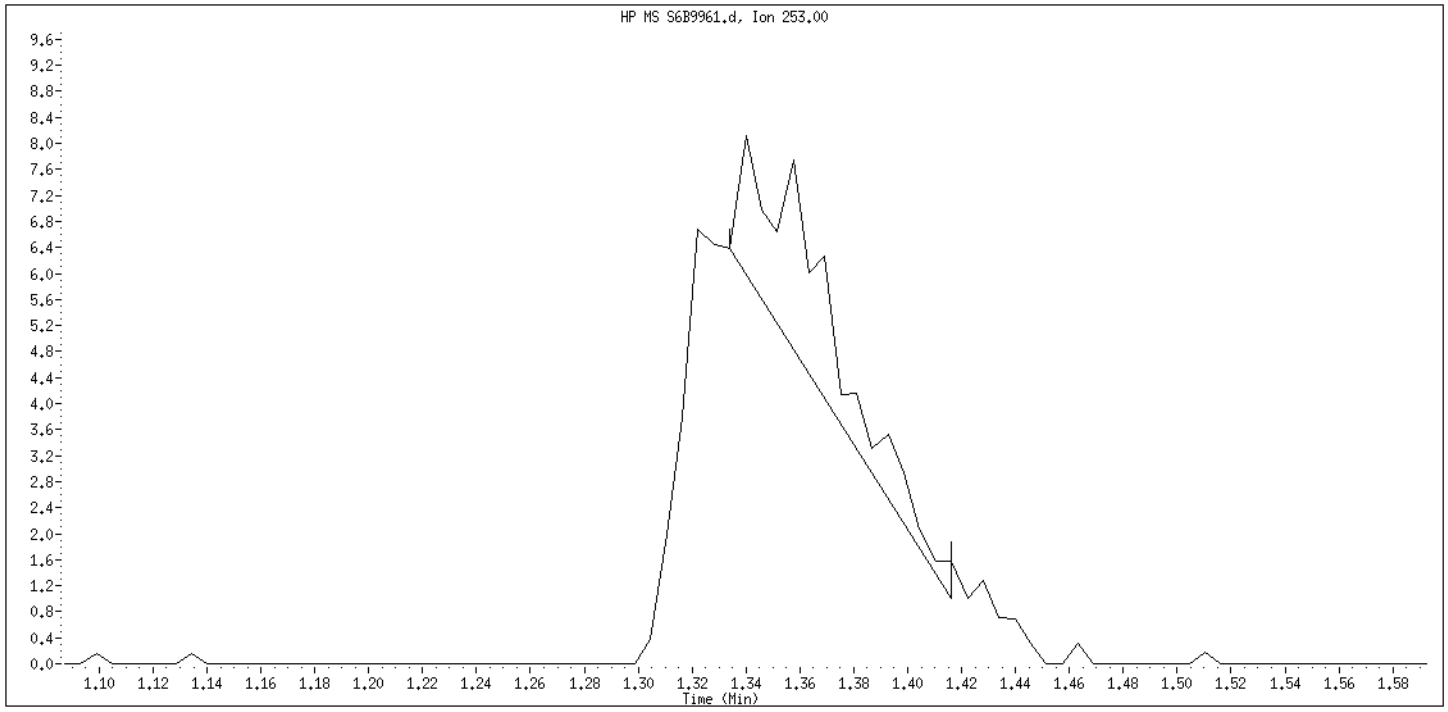
Manual Integration Report Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9961.d

Lab ID: SSTD0256N Client ID: SSTD0256N Inj Vol: 1 uL
Inj Date: 27-OCT-2014 15:27 Operator: CLM SRC: CLM

Manual Integration Tetramethyllead Ret Time: 1.340 min, Range: 1.293 to 1.469 min Response: 33489



Original Integration Tetramethyllead Ret Time: 1.358 min, Range: 1.334 to 1.416 min Response: 5661



Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9981.d
Report Date: 28-Oct-2014 15:21

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141028.B\S6B9981.d
Lab Smp Id: SSTD0256O Client Smp ID: SSTD0256O
Inj Date : 28-OCT-2014 10:22
Operator : CLM   SRC: CLM Inst ID: S6.i
Smp Info : SSTD0256O,SSTD0256O
Misc Info : 2,3
Comment   :
Method   : \\Avogadro\Organics\S6.I\141028.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 15:11 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	109 1,4-Dioxane-d8	96	1.134	1.134	(0.295)	43298	25.0000	27
	108 1,4-Dioxane	58	1.145	1.145	(0.298)	27263	25.0000	27
	1 N-Nitrosodimethylamine	74	1.345	1.345	(0.350)	82173	25.0000	29
	143 Tetramethyllead	253	1.333	1.333	(0.347)	31330	25.0000	30(Q)
	2 Pyridine	79	1.369	1.369	(0.356)	134554	25.0000	27(TQ)
$	3 2-Fluorophenol	112	2.720	2.720	(0.708)	121691	25.0000	26
	101 Benzaldehyde	77	3.460	3.460	(0.901)	96454	25.0000	30
	7 Aniline	66	3.572	3.572	(0.930)	78685	25.0000	25
$	5 Phenol-d5	99	3.654	3.654	(0.951)	168120	25.0000	26
	6 Phenol	94	3.666	3.666	(0.954)	168339	25.0000	26
	8 bis(2-Chloroethyl)Ether	63	3.637	3.637	(0.946)	98512	25.0000	31
	10 2-Chlorophenol	128	3.695	3.695	(0.962)	127459	25.0000	25
	11 1,3-Dichlorobenzene	146	3.784	3.784	(0.985)	142608	25.0000	26
*	12 1,4-Dichlorobenzene-d4	152	3.842	3.842	(1.000)	156083	40.0000	
	13 1,4-Dichlorobenzene	146	3.854	3.854	(1.003)	148588	25.0000	26
	117 2-Ethyl-1-hexanol	57	3.948	3.948	(1.028)	126401	25.0000	24
	15 Benzyl Alcohol	108	4.019	4.019	(1.046)	91592	25.0000	26
	16 1,2-Dichlorobenzene	146	3.983	3.983	(1.037)	137133	25.0000	26
	18 2,2'-oxybis(1-Chloropropane)	45	4.119	4.119	(1.072)	109036	25.0000	25
	17 2-Methylphenol	108	4.171	4.171	(1.086)	123431	25.0000	26

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9981.d
Report Date: 28-Oct-2014 15:21

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	99 Acetophenone	105	4.213	4.213	(1.096)	225406	25.0000	27
	19 N-Nitroso-di-n-propylamine	70	4.236	4.236	(1.102)	112269	25.0000	25(Q)
	20 4-Methylphenol	108	4.312	4.312	(1.122)	127667	25.0000	26
	21 Hexachloroethane	117	4.265	4.265	(1.110)	67097	25.0000	27
$	22 Nitrobenzene-d5	82	4.342	4.342	(0.881)	172755	25.0000	27
	23 Nitrobenzene	77	4.354	4.354	(0.883)	185589	25.0000	22
	24 Isophorone	82	4.565	4.565	(0.926)	303093	25.0000	28
	25 2-Nitrophenol	139	4.624	4.624	(0.938)	78699	25.0000	26
	26 2,4-Dimethylphenol	107	4.730	4.730	(0.959)	166846	25.0000	27
	144 Tetraethyllead	237	4.688	4.688	(1.220)	78498	25.0000	28
	27 bis(2-Chloroethoxy)methane	93	4.765	4.765	(0.967)	162153	25.0000	26
	28 Benzoic Acid	105	4.912	4.912	(0.996)	72172	25.0000	46
	29 2,4-Dichlorophenol	162	4.871	4.871	(0.988)	127179	25.0000	27
	30 1,2,4-Trichlorobenzene	180	4.888	4.888	(0.992)	136212	25.0000	26
*	31 Naphthalene-d8	136	4.929	4.929	(1.000)	572090	40.0000	
	32 Naphthalene	128	4.947	4.947	(1.004)	383270	25.0000	27
	115 alpha-Terpineol	59	4.982	4.982	(1.011)	115790	25.0000	27
	33 4-Chloroaniline	127	5.029	5.029	(1.020)	142792	25.0000	24
	34 Hexachlorobutadiene	225	5.053	5.053	(1.025)	102983	25.0000	27
	102 Caprolactam	113	5.364	5.364	(1.088)	44584	25.0000	27
	35 4-Chloro-3-Methylphenol	107	5.499	5.499	(1.116)	152408	25.0000	26(Q)
	36 2-Methylnaphthalene	142	5.523	5.523	(1.120)	304627	25.0000	21
	114 1-Methylnaphthalene	142	5.605	5.605	(1.137)	265099	25.0000	27
	38 Hexachlorocyclopentadiene	237	5.652	5.652	(0.887)	79394	25.0000	27
	112 1,2,4,5-Tetrachlorobenzene	216	5.664	5.664	(0.888)	151092	25.0000	26
	39 2,4,6-Trichlorophenol	196	5.793	5.793	(0.909)	109937	25.0000	27
	40 2,4,5-Trichlorophenol	196	5.852	5.852	(0.918)	115571	25.0000	27
$	41 2-Fluorobiphenyl	172	5.834	5.834	(0.915)	345371	25.0000	26
	98 1,1'-Biphenyl	154	5.916	5.916	(0.928)	376299	25.0000	26
	42 2-Chloronaphthalene	162	5.922	5.922	(0.929)	287766	25.0000	26
	43 2-Nitroaniline	65	6.040	6.040	(0.947)	119323	25.0000	28
	44 Dimethylphthalate	163	6.193	6.193	(0.971)	377354	25.0000	27
	45 2,6-Dinitrotoluene	165	6.245	6.245	(0.980)	88186	25.0000	26
	46 Acenaphthylene	152	6.257	6.257	(0.982)	455060	25.0000	25
	47 3-Nitroaniline	138	6.386	6.386	(1.002)	84633	25.0000	24
*	48 Acenaphthene-d10	164	6.375	6.375	(1.000)	411885	40.0000	
	49 Acenaphthene	153	6.398	6.398	(1.004)	304944	25.0000	26
	50 2,4-Dinitrophenol	184	6.480	6.480	(1.017)	26776	25.0000	18(aQ)
	51 4-Nitrophenol	109	6.627	6.627	(1.040)	71649	25.0000	28
	53 2,4-Dinitrotoluene	165	6.575	6.575	(1.031)	121695	25.0000	27
	52 Dibenzofuran	168	6.545	6.545	(1.027)	420825	25.0000	26
	110 2,3,4,6-Tetrachlorophenol	232	6.674	6.674	(1.047)	94311	25.0000	26
	54 Diethylphthalate	149	6.768	6.768	(1.062)	392186	25.0000	28
	56 4-Chlorophenyl-phenylether	204	6.833	6.833	(1.072)	196835	25.0000	26
	55 Fluorene	166	6.821	6.821	(1.070)	369446	25.0000	25
	57 4-Nitroaniline	138	6.892	6.892	(1.081)	85939	25.0000	28
	58 4,6-Dinitro-2-methylphenol	198	6.915	6.915	(0.912)	56480	25.0000	20
	59 N-Nitrosodiphenylamine	169	6.945	6.945	(0.916)	329451	25.0000	26
	97 Azobenzene	77	6.962	6.962	(0.918)	490251	25.0000	28
$	60 2,4,6-Tribromophenol	330	7.027	7.027	(0.926)	57699	25.0000	29
	61 4-Bromophenyl-phenylether	248	7.227	7.227	(0.953)	121371	25.0000	27
	62 Hexachlorobenzene	284	7.268	7.268	(0.958)	119722	25.0000	27
	100 Atrazine	200	7.403	7.403	(0.976)	111799	25.0000	25
	111 Pentachloronitrobenzene	237	7.444	7.444	(0.981)	72857	25.0000	30

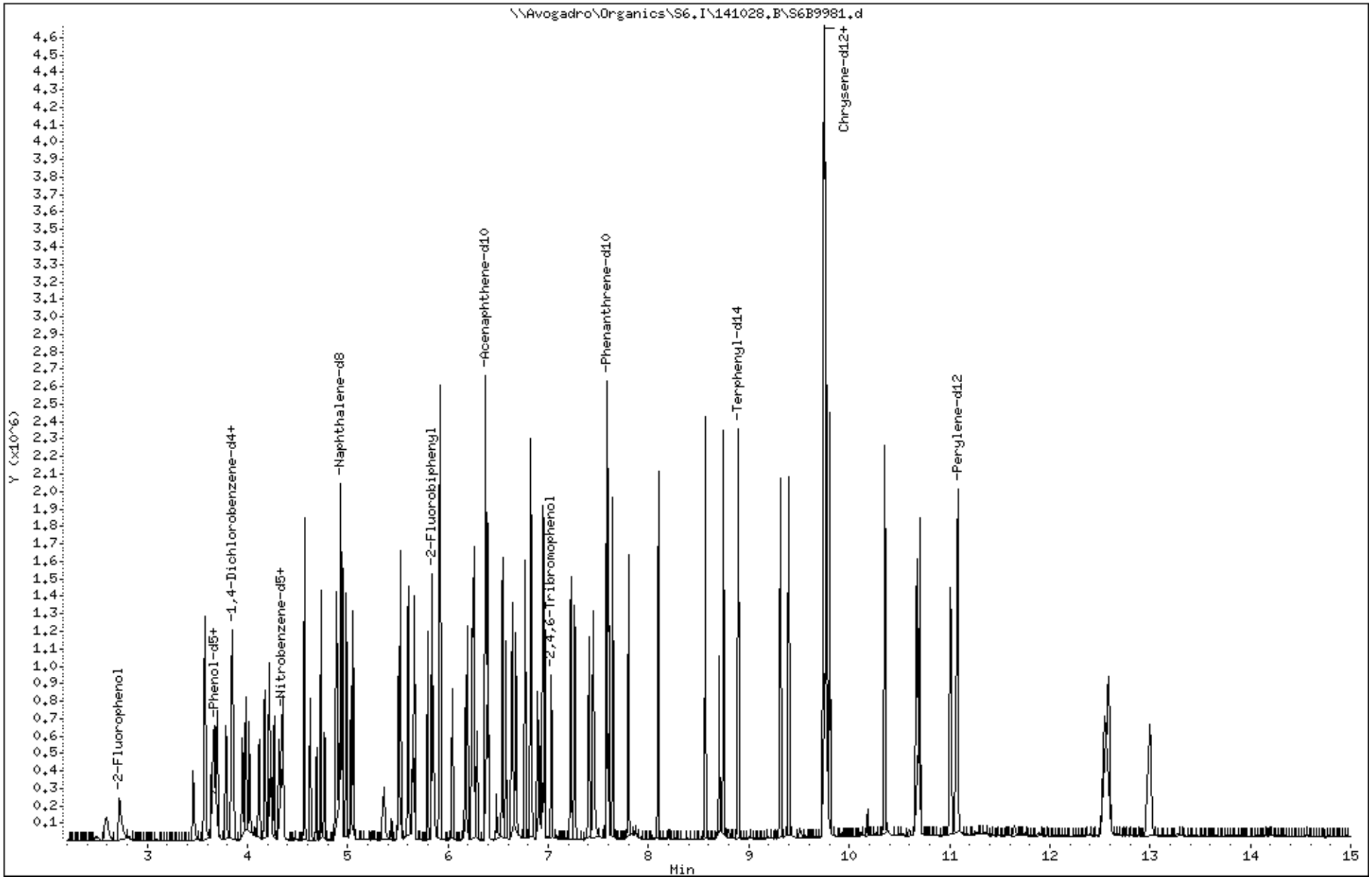
Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9981.d
Report Date: 28-Oct-2014 15:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	63 Pentachlorophenol	266	7.462	7.462	(0.984)	51829	25.0000	31
*	64 Phenanthrene-d10	188	7.585	7.585	(1.000)	871346	40.0000	
	65 Phenanthrene	178	7.603	7.603	(1.002)	568213	25.0000	27
	66 Anthracene	178	7.644	7.644	(1.008)	580724	25.0000	27
	67 Carbazole	167	7.802	7.802	(1.029)	522857	25.0000	28
	68 Di-n-butylphthalate	149	8.096	8.096	(1.067)	683289	25.0000	28
	69 Fluoranthene	202	8.566	8.566	(1.129)	717142	25.0000	28
	70 Benzidine	184	8.701	8.701	(0.892)	251063	25.0000	27
	71 Pyrene	202	8.748	8.748	(0.896)	753773	25.0000	26
$	72 Terphenyl-d14	244	8.895	8.895	(0.912)	503895	25.0000	26
	73 Butylbenzylphthalate	149	9.313	9.313	(0.954)	334142	25.0000	27
	74 3,3'-Dichlorobenzidine	252	9.747	9.747	(0.999)	293283	25.0000	30
	75 Benzo(a)anthracene	228	9.747	9.747	(0.999)	824197	25.0000	27
	78 bis(2-Ethylhexyl)phthalate	149	9.806	9.806	(1.005)	492128	25.0000	26
*	76 Chrysene-d12	240	9.759	9.759	(1.000)	1076998	40.0000	
	77 Chrysene	228	9.777	9.777	(1.002)	686434	25.0000	26
	79 Di-n-octylphthalate	149	10.352	10.352	(0.934)	867568	25.0000	28
	80 Benzo(b)fluoranthene	252	10.676	10.676	(0.963)	732877	25.0000	26
	81 Benzo(k)fluoranthene	252	10.705	10.705	(0.966)	744034	25.0000	28
	82 Benzo(a)pyrene	252	11.011	11.011	(0.994)	676641	25.0000	27
*	83 Perylene-d12	264	11.081	11.081	(1.000)	940835	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	12.550	12.550	(1.133)	647275	25.0000	26
	85 Dibenzo(a,h)anthracene	278	12.591	12.591	(1.136)	607347	25.0000	26
	86 Benzo(g,h,i)perylene	276	13.002	13.002	(1.173)	592691	25.0000	26

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9981.d
Date : 28-OCT-2014 10:22
Client ID: SSTD02560
Instrument: S6.i
Sample Info: SSTD02560,SSTD02560
Volume Injected (uL): 1.0
Operator: CLM SRC: CLM
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\140926A.B\S6B9493.d
Lab Smp Id: DFTPP6L Client Smp ID: DFTPP6L
Inj Date : 26-SEP-2014 14:38
Operator : TM SRC: TM Inst ID: S6.i
Smp Info : DFTPP6L,DFTPP6L
Misc Info :
Comment :
Method : \\avogadro\organics\S6.I\140926A.B\S6_dftppSOM.m
Meth Date : 15-Sep-2014 15:51 tmcdaniel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET102

Concentration Formula: Amt * DF * Uf * Vf/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume (uL)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
3.728	3.826	-0.098	198	163392			0.00- 100.00	100.00
3.728	3.826	-0.098	51	79576			10.00- 80.00	48.70
3.728	3.826	-0.098	68	0	0.0	0.0	0.00- 2.00	0.00
3.728	3.826	-0.098	69	81968			0.00- 0.00	50.17
3.728	3.826	-0.098	70	184			0.00- 2.00	0.22
3.728	3.826	-0.098	127	77552			10.00- 80.00	47.46
3.728	3.826	-0.098	197	0	0.0	0.0	0.00- 2.00	0.00
3.728	3.826	-0.098	199	9844			5.00- 9.00	6.02
3.728	3.826	-0.098	275	44224			10.00- 60.00	27.07
3.728	3.826	-0.098	365	6607			1.00- 0.00	4.04
3.728	3.826	-0.098	441	16315			0.01- 99.99	65.16
3.728	3.826	-0.098	442	125496			50.00- 100.00	76.81
3.728	3.826	-0.098	443	25040			15.00- 24.00	19.95

Data File: \\avogadro\organics\S6.I\140926A.B\S6B9493.d

Date : 26-SEP-2014 14:38

Client ID: DFTPP6L

Instrument: S6.i

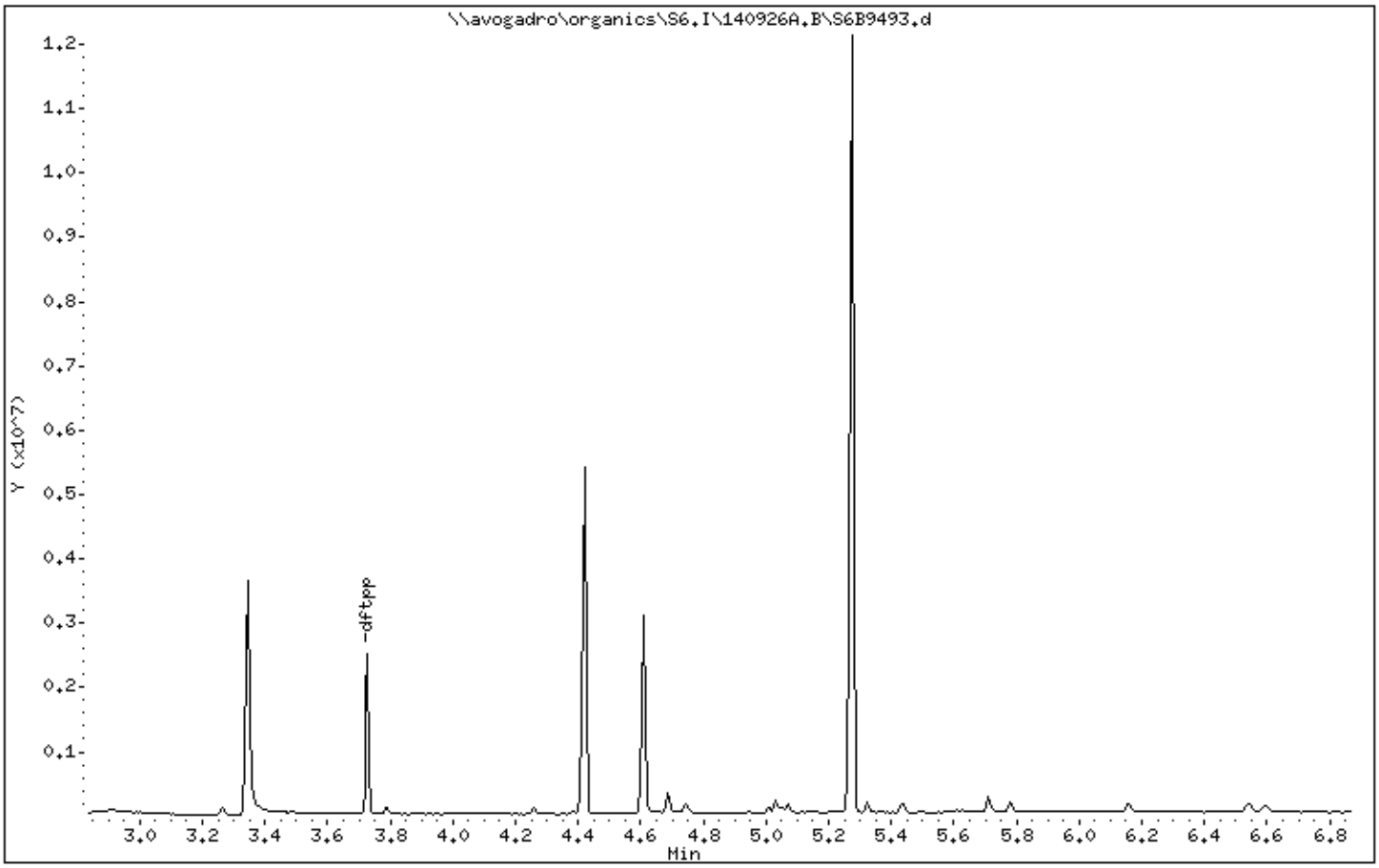
Sample Info: DFTPP6L,DFTPP6L

Volume Injected (uL): 2.0

Operator: TM SRC: TM

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\140926A.B\S6B9493.d

Date : 26-SEP-2014 14:38

Client ID: DFTPP6L

Instrument: S6.i

Sample Info: DFTPP6L,DFTPP6L

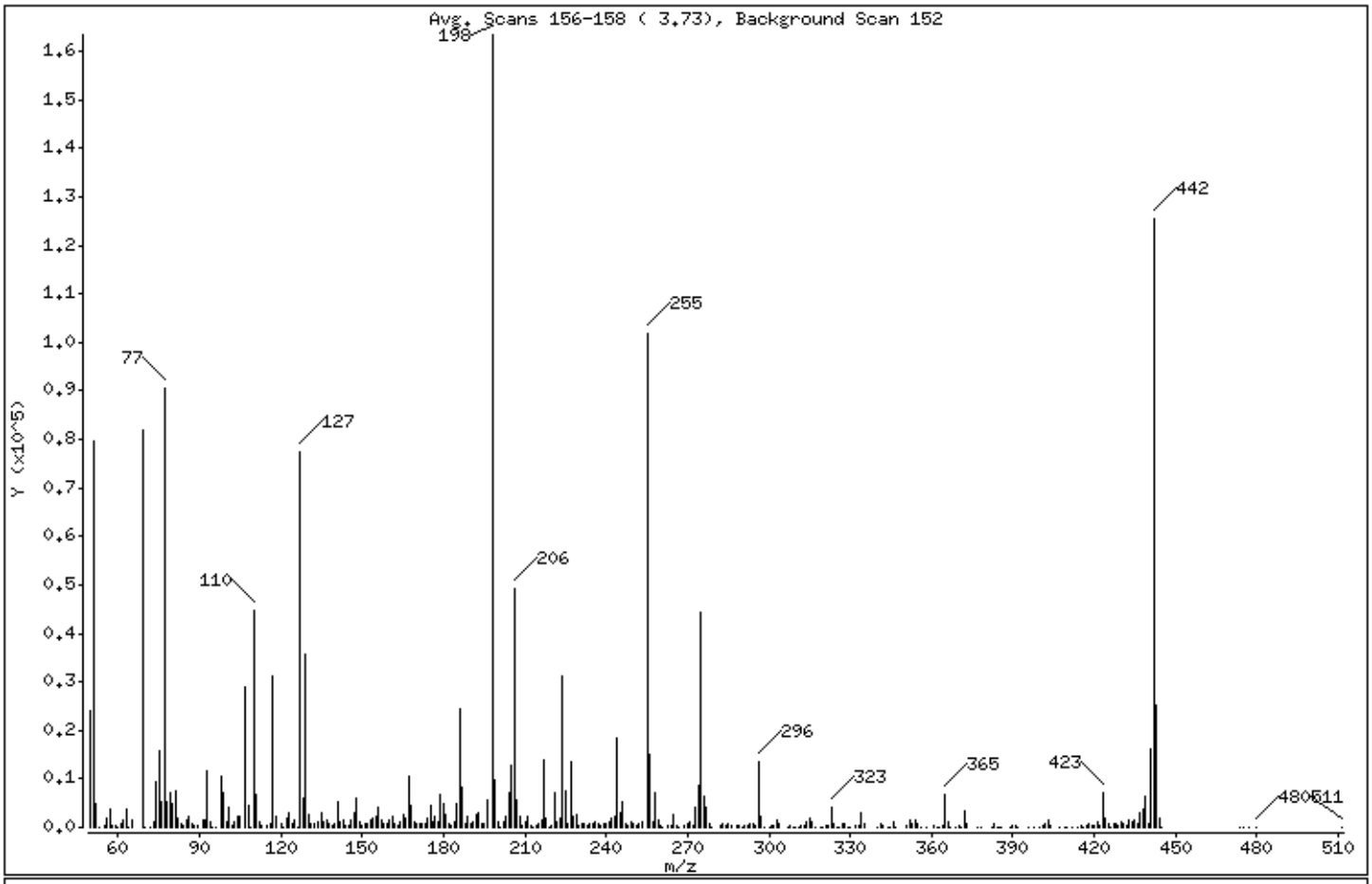
Volume Injected (uL): 2.0

Operator: TM SRC: TM

Column phase: RXi-5SILMS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	48.70
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.17
70	Less than 2.00% of mass 69	0.11 (0.22)
127	10.00 - 80.00% of mass 198	47.46
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.02
275	10.00 - 60.00% of mass 198	27.07
365	Greater than 1.00% of mass 198	4.04
441	Present, but less than mass 443	9.99
442	50.00 - 100.00% of mass 198	76.81
443	15.00 - 24.00% of mass 442	15.33 (19.95)

Date : 26-SEP-2014 14:38

Client ID: DFTPP6L Instrument: S6.i

Sample Info: DFTPP6L,DFTPP6L

Volume Injected (uL): 2.0 Operator: TM SRC: TM

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B9493.d
Spectrum: Avg. Scans 156-158 (3.73), Background Scan 152
Location of Maximum: 198.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	23904	149.00	1089	238.00	193	341.00	565
51.00	79576	150.00	338	239.00	674	342.00	198
52.00	5002	151.00	675	240.00	642	344.00	74
53.00	178	152.00	818	241.00	1037	345.00	172
55.00	523	153.00	1663	242.00	2044	346.00	1016
56.00	1787	154.00	1741	243.00	2430	347.00	96
57.00	3704	155.00	2415	244.00	18496	351.00	303
58.00	450	156.00	4273	245.00	3045	352.00	1440
59.00	203	157.00	1366	246.00	5327	353.00	616
60.00	162	158.00	858	247.00	714	354.00	1469
61.00	752	159.00	755	248.00	354	355.00	644
62.00	1356	160.00	1645	249.00	1048	356.00	121
63.00	3730	161.00	2219	250.00	591	358.00	54
64.00	168	162.00	817	251.00	471	361.00	517
65.00	1573	163.00	500	252.00	902	362.00	64
69.00	81968	164.00	989	253.00	1190	363.00	62
70.00	184	165.00	2581	255.00	101744	364.00	561
72.00	5	166.00	1797	256.00	15071	365.00	6607
73.00	951	167.00	10455	257.00	1214	366.00	1060
74.00	9485	168.00	4550	258.00	7019	367.00	57
75.00	15657	169.00	994	259.00	1411	369.00	173
76.00	5348	170.00	845	260.00	377	370.00	456
77.00	90448	171.00	823	261.00	160	371.00	52
78.00	5417	172.00	878	263.00	468	372.00	3213
79.00	6963	173.00	746	264.00	458	373.00	824
80.00	4856	174.00	1799	265.00	2799	377.00	58
81.00	7416	175.00	4360	266.00	196	378.00	54
82.00	1796	176.00	1299	267.00	174	382.00	69
83.00	939	177.00	2207	269.00	243	383.00	719
84.00	320	178.00	950	270.00	605	384.00	120
85.00	1571	179.00	6920	271.00	974	385.00	66
86.00	2101	180.00	4798	272.00	533	386.00	172
87.00	863	181.00	2487	273.00	4276	389.00	137
88.00	527	182.00	630	274.00	8799	390.00	261
89.00	395	183.00	444	275.00	44224	391.00	476

Date : 26-SEP-2014 14:38

Client ID: DFTPP6L Instrument: S6.i

Sample Info: DFTPP6L,DFTPP6L

Volume Injected (uL): 2.0 Operator: TM SRC: TM

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B9493.d
Spectrum: Avg. Scans 156-158 (3.73), Background Scan 152
Location of Maximum: 198.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	1550	184.00	992	276.00	6267	392.00	162
92.00	1351	185.00	4800	277.00	4172	396.00	51
93.00	11485	186.00	24512	278.00	613	398.00	59
94.00	1006	187.00	8181	279.00	53	400.00	145
95.00	140	188.00	783	282.00	296	401.00	354
96.00	151	189.00	2241	283.00	574	402.00	936
98.00	10332	190.00	624	284.00	324	403.00	1674
99.00	7150	191.00	1151	285.00	870	404.00	518
100.00	1001	192.00	2571	286.00	236	407.00	56
101.00	3965	193.00	2951	288.00	221	409.00	79
102.00	232	194.00	754	289.00	257	410.00	61
103.00	1239	195.00	766	290.00	131	412.00	65
104.00	2144	196.00	5659	291.00	316	414.00	80
105.00	2220	198.00	163392	292.00	396	415.00	302
107.00	28976	199.00	9844	293.00	772	416.00	164
108.00	4427	200.00	1200	294.00	678	417.00	242
109.00	127	201.00	150	295.00	394	418.00	737
110.00	44664	202.00	1281	296.00	13363	419.00	243
111.00	6618	203.00	2120	297.00	2186	420.00	295
112.00	1228	204.00	7098	298.00	169	421.00	1239
113.00	332	205.00	12785	300.00	61	422.00	332
115.00	189	206.00	49280	301.00	249	423.00	7267
116.00	901	207.00	5496	302.00	503	424.00	2029
117.00	31112	208.00	2108	303.00	1578	425.00	746
118.00	2429	209.00	436	304.00	634	426.00	83
120.00	600	210.00	1042	307.00	82	427.00	821
121.00	28	211.00	2190	308.00	280	428.00	836
122.00	2021	212.00	307	309.00	90	429.00	444
123.00	3116	213.00	182	310.00	165	430.00	976
124.00	856	214.00	292	311.00	53	431.00	703
125.00	1534	215.00	876	312.00	211	432.00	524
126.00	120	216.00	1354	313.00	220	433.00	1676
127.00	77552	217.00	14050	314.00	1123	434.00	1135
128.00	6190	218.00	2014	315.00	1725	435.00	1424
129.00	35624	219.00	145	316.00	975	436.00	756

Date : 26-SEP-2014 14:38

Client ID: DFTPP6L Instrument: S6.i

Sample Info: DFTPP6L,DFTPP6L

Volume Injected (uL): 2.0 Operator: TM SRC: TM

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B9493.d
Spectrum: Avg. Scans 156-158 (3.73), Background Scan 152
Location of Maximum: 198.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
130.00	2683	220.00	359	317.00	158	437.00	2944
131.00	693	221.00	7312	319.00	132	438.00	3687
132.00	739	222.00	1286	320.00	108	439.00	6420
134.00	968	223.00	1756	321.00	489	440.00	873
135.00	3169	224.00	31064	322.00	420	441.00	16315
136.00	1288	225.00	7328	323.00	4022	442.00	125496
137.00	1618	226.00	624	324.00	717	443.00	25040
138.00	584	227.00	13359	325.00	68	444.00	2002
139.00	313	228.00	2294	326.00	74	445.00	179
140.00	847	229.00	2749	327.00	871	474.00	69
141.00	5428	230.00	444	328.00	744	475.00	50
142.00	1238	231.00	932	329.00	127	477.00	69
143.00	1356	232.00	588	330.00	91	480.00	105
144.00	437	233.00	505	332.00	556	511.00	72
145.00	237	234.00	608	333.00	216		
146.00	1601	235.00	881	334.00	3045		
147.00	2954	236.00	1114	335.00	902		
148.00	5963	237.00	883	340.00	149		

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9960.d
Lab Smp Id: DFTPP6N Client Smp ID: DFTPP6N
Inj Date : 27-OCT-2014 15:07
Operator : CLM SRC: CLM Inst ID: S6.i
Smp Info : DFTPP6N,DFTPP6N
Misc Info :
Comment :
Method : \\Avogadro\Organics\S6.I\141027A.B\S6_dftppSOM.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vf/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
3.506	3.826	-0.320	198	280192			0.00- 100.00	100.00
3.506	3.826	-0.320	51	141120			10.00- 80.00	50.37
3.506	3.826	-0.320	68	964			0.00- 2.00	0.62
3.506	3.826	-0.320	69	154432			0.00- 0.00	55.12
3.506	3.826	-0.320	70	812			0.00- 2.00	0.53
3.506	3.826	-0.320	127	136576			10.00- 80.00	48.74
3.506	3.826	-0.320	197	0	0.0	0.0	0.00- 2.00	0.00
3.506	3.826	-0.320	199	17912			5.00- 9.00	6.39
3.506	3.826	-0.320	275	74112			10.00- 60.00	26.45
3.506	3.826	-0.320	365	9599			1.00- 0.00	3.43
3.506	3.826	-0.320	441	19960			0.01- 99.99	49.51
3.506	3.826	-0.320	442	202432			50.00- 100.00	72.25
3.506	3.826	-0.320	443	40312			15.00- 24.00	19.91

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9960.d

Date : 27-OCT-2014 15:07

Client ID: DFTPP6N

Instrument: S6.i

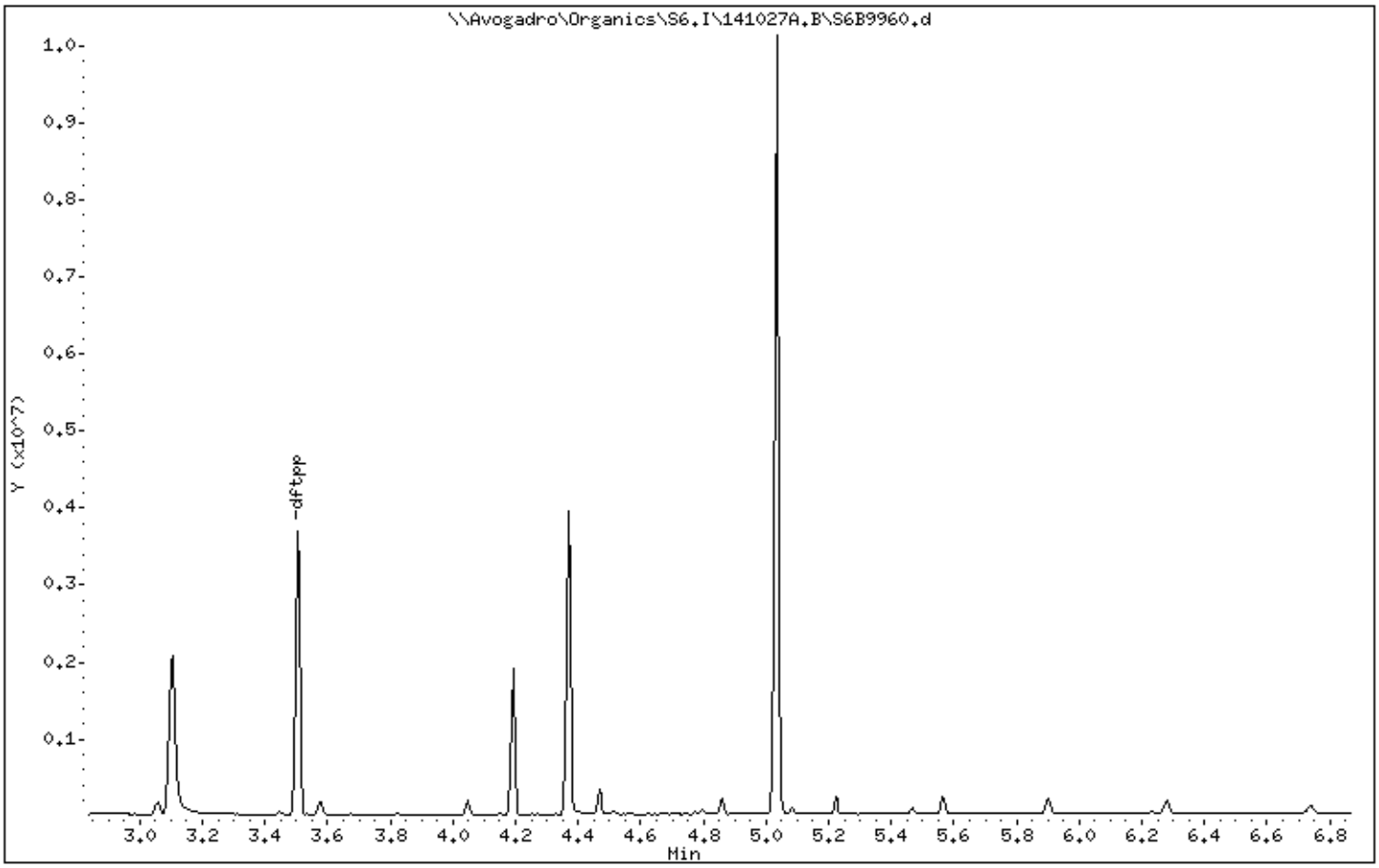
Sample Info: DFTPP6N,DFTPP6N

Volume Injected (uL): 2.0

Operator: CLM SRC: CLM

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9960.d

Date : 27-OCT-2014 15:07

Client ID: DFTPP6N

Instrument: S6.i

Sample Info: DFTPP6N,DFTPP6N

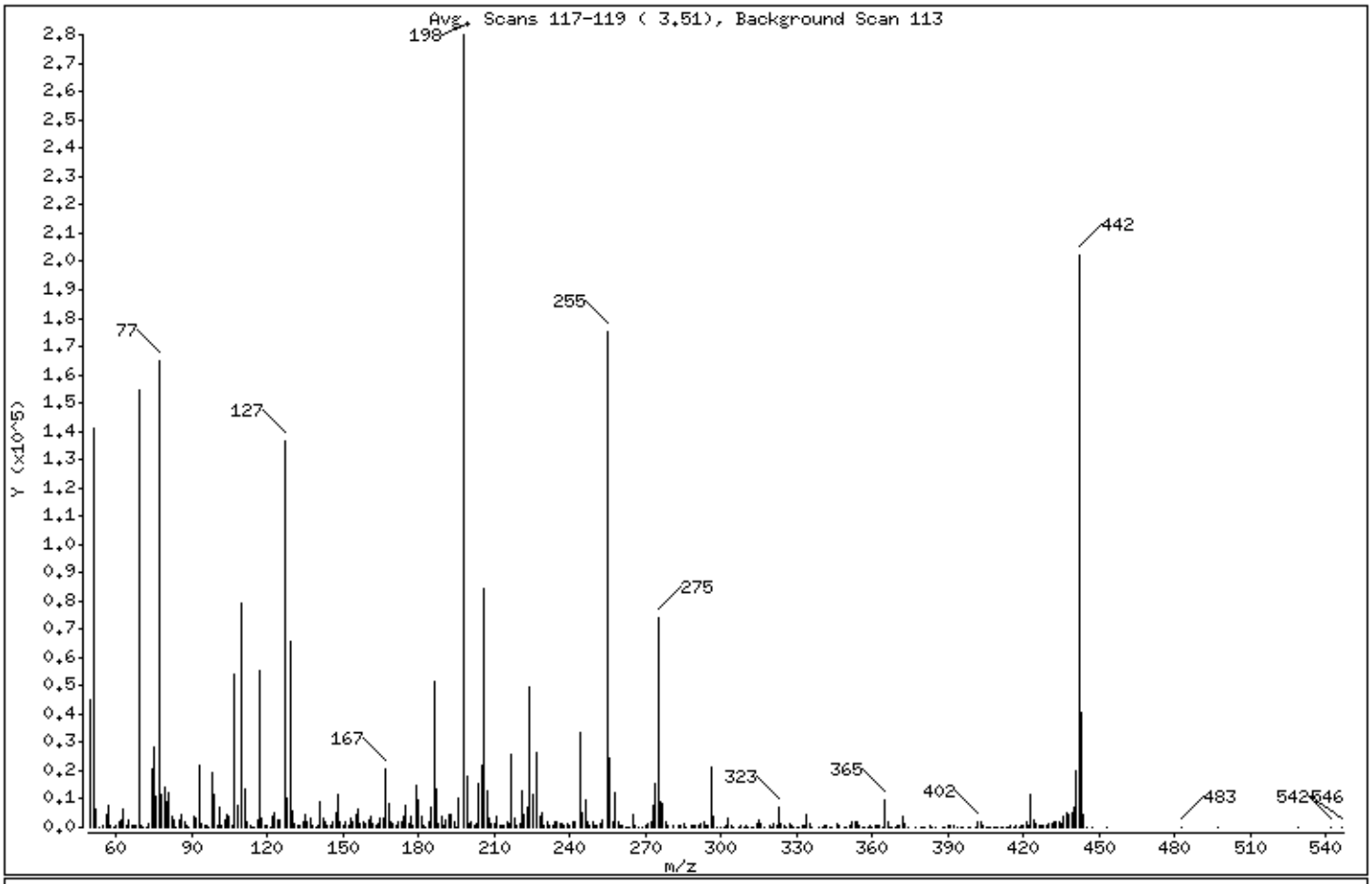
Volume Injected (uL): 2.0

Operator: CLM SRC: CLM

Column phase: RXi-5SILMS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	50.37
68	Less than 2.00% of mass 69	0.34 (0.62)
69	Mass 69 relative abundance	55.12
70	Less than 2.00% of mass 69	0.29 (0.53)
127	10.00 - 80.00% of mass 198	48.74
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.39
275	10.00 - 60.00% of mass 198	26.45
365	Greater than 1.00% of mass 198	3.43
441	Present, but less than mass 443	7.12
442	50.00 - 100.00% of mass 198	72.25
443	15.00 - 24.00% of mass 442	14.39 (19.91)

Date : 27-OCT-2014 15:07

Client ID: DFTPP6N Instrument: S6.i

Sample Info: DFTPP6N,DFTPP6N

Volume Injected (uL): 2.0 Operator: CLM SRC: CLM

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B9960.d
Spectrum: Avg. Scans 117-119 (3.51), Background Scan 113
Location of Maximum: 198.00
Number of points: 375

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	45184	148.00	11520	245.00	4918	351.00	343
51.00	141120	149.00	1807	246.00	9454	352.00	2242
52.00	6349	150.00	632	247.00	2089	353.00	1865
53.00	216	151.00	1813	248.00	620	354.00	1863
55.00	928	152.00	589	249.00	2035	355.00	338
56.00	4571	153.00	3265	250.00	566	356.00	108
57.00	7609	154.00	1645	251.00	881	357.00	50
58.00	836	155.00	4576	252.00	1215	358.00	79
59.00	203	156.00	6474	253.00	2882	359.00	339
60.00	363	157.00	1385	255.00	175168	360.00	122
61.00	1786	158.00	1895	256.00	24784	361.00	755
62.00	2550	159.00	1108	257.00	2202	362.00	459
63.00	6470	160.00	2780	258.00	12198	363.00	539
64.00	825	161.00	3832	259.00	2045	364.00	322
65.00	2713	162.00	1070	260.00	596	365.00	9599
66.00	412	163.00	598	261.00	468	366.00	1755
67.00	524	164.00	973	262.00	66	367.00	283
68.00	964	165.00	3108	263.00	19	368.00	171
69.00	154432	166.00	2907	264.00	43	369.00	65
70.00	812	167.00	20824	265.00	4520	370.00	382
71.00	204	168.00	8538	266.00	846	371.00	814
72.00	23	169.00	1718	267.00	241	372.00	3859
73.00	1112	170.00	1316	269.00	5	373.00	984
74.00	20704	171.00	637	270.00	665	374.00	90
75.00	28384	172.00	1825	271.00	1174	377.00	175
76.00	10740	173.00	2174	272.00	1886	379.00	70
77.00	164800	174.00	3944	273.00	7709	380.00	195
78.00	11422	175.00	7523	274.00	15458	381.00	271
79.00	14421	176.00	1196	275.00	74112	383.00	930
80.00	9197	177.00	3553	276.00	9290	384.00	192
81.00	12364	178.00	933	277.00	8240	385.00	236
82.00	3549	179.00	14751	278.00	1687	388.00	53
83.00	2514	180.00	9471	279.00	353	389.00	98
84.00	120	181.00	3979	281.00	514	390.00	553
85.00	2273	182.00	890	283.00	777	391.00	567

Date : 27-OCT-2014 15:07

Client ID: DFTPP6N Instrument: S6.i

Sample Info: DFTPP6N,DFTPP6N

Volume Injected (uL): 2.0 Operator: CLM SRC: CLM

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B9960.d
Spectrum: Avg. Scans 117-119 (3.51), Background Scan 113
Location of Maximum: 198.00
Number of points: 375

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	4499	183.00	298	284.00	637	392.00	399
87.00	1913	184.00	1642	285.00	1399	394.00	58
88.00	598	185.00	7230	286.00	289	395.00	133
89.00	92	186.00	51360	288.00	339	396.00	68
91.00	3599	187.00	13282	289.00	450	398.00	79
92.00	3260	188.00	1434	290.00	591	399.00	81
93.00	21904	189.00	3743	291.00	518	401.00	278
94.00	1170	190.00	386	292.00	1024	402.00	2190
95.00	482	191.00	2513	293.00	1901	403.00	1842
96.00	856	192.00	4736	294.00	471	404.00	680
97.00	216	193.00	4770	295.00	436	405.00	140
98.00	19296	194.00	1649	296.00	21440	406.00	219
99.00	11658	195.00	135	297.00	3601	407.00	58
100.00	709	196.00	10412	298.00	294	408.00	318
101.00	6828	198.00	280192	300.00	52	409.00	74
102.00	634	199.00	17912	301.00	281	410.00	97
103.00	2288	200.00	976	302.00	633	411.00	58
104.00	4583	201.00	1879	303.00	3441	412.00	241
105.00	4104	202.00	544	304.00	739	413.00	227
106.00	659	203.00	1585	305.00	118	414.00	93
107.00	54264	204.00	15398	307.00	135	415.00	594
108.00	7904	205.00	21832	308.00	379	416.00	219
110.00	79288	206.00	84584	309.00	218	417.00	602
111.00	13465	207.00	13032	310.00	416	418.00	243
112.00	1655	208.00	3381	311.00	54	419.00	855
113.00	604	209.00	1128	312.00	241	420.00	759
114.00	263	210.00	1589	313.00	263	421.00	1885
115.00	303	211.00	3838	314.00	1381	422.00	853
116.00	2460	212.00	873	315.00	2815	423.00	11439
117.00	55296	213.00	763	316.00	1507	424.00	2373
118.00	3216	214.00	401	317.00	253	425.00	1136
119.00	458	215.00	1903	319.00	351	426.00	619
120.00	699	216.00	1251	320.00	81	427.00	731
121.00	251	217.00	25512	321.00	1504	428.00	473
122.00	4097	218.00	3127	322.00	915	429.00	870

Date : 27-OCT-2014 15:07

Client ID: DFTPP6N Instrument: S6.i

Sample Info: DFTPP6N,DFTPP6N

Volume Injected (uL): 2.0 Operator: CLM SRC: CLM

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B9960.d
Spectrum: Avg. Scans 117-119 (3.51), Background Scan 113
Location of Maximum: 198.00
Number of points: 375

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	5443	219.00	384	323.00	7343	430.00	1495
124.00	2351	220.00	1555	324.00	1441	431.00	985
125.00	2590	221.00	12851	325.00	329	432.00	1849
127.00	136576	222.00	4364	326.00	154	433.00	1782
128.00	10419	223.00	7257	327.00	1362	434.00	2241
129.00	65784	224.00	49856	328.00	905	435.00	1003
130.00	5779	225.00	11912	329.00	245	436.00	3695
131.00	1027	227.00	26560	330.00	293	437.00	5121
132.00	686	228.00	3731	331.00	108	438.00	4649
133.00	357	229.00	4913	332.00	805	439.00	5394
134.00	2042	230.00	405	333.00	885	440.00	7310
135.00	4525	231.00	1719	334.00	4704	441.00	19960
136.00	2094	232.00	325	335.00	1304	442.00	202432
137.00	2905	233.00	474	336.00	149	443.00	40312
138.00	658	234.00	1834	339.00	172	444.00	4406
139.00	97	235.00	1968	340.00	133	445.00	214
140.00	833	236.00	1593	341.00	884	447.00	81
141.00	8930	237.00	1484	342.00	414	453.00	94
142.00	2993	238.00	608	343.00	75	483.00	58
143.00	1895	239.00	1237	344.00	106	497.00	56
144.00	671	240.00	554	346.00	1454	529.00	62
145.00	379	241.00	1685	347.00	410	542.00	99
146.00	2023	242.00	2050	349.00	64	546.00	54
147.00	5288	244.00	33288	350.00	196		

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141028.B\S6B9980.d
Lab Smp Id: DFTPP6O Client Smp ID: DFTPP6O
Inj Date : 28-OCT-2014 10:01
Operator : CLM SRC: CLM Inst ID: S6.i
Smp Info : DFTPP6O,DFTPP6O
Misc Info :
Comment :
Method : \\Avogadro\Organics\S6.I\141028.B\S6_dftppSOM.m
Meth Date : 28-Oct-2014 15:11 cmosher Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vf/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
3.511	3.826	-0.315	198	191872			0.00- 100.00	100.00
3.511	3.826	-0.315	51	101664			10.00- 80.00	52.99
3.511	3.826	-0.315	68	0	0.0	0.0	0.00- 2.00	0.00
3.511	3.826	-0.315	69	104864			0.00- 0.00	54.65
3.511	3.826	-0.315	70	360			0.00- 2.00	0.34
3.511	3.826	-0.315	127	101968			10.00- 80.00	53.14
3.511	3.826	-0.315	197	0	0.0	0.0	0.00- 2.00	0.00
3.511	3.826	-0.315	199	14045			5.00- 9.00	7.32
3.511	3.826	-0.315	275	55184			10.00- 60.00	28.76
3.511	3.826	-0.315	365	9463			1.00- 0.00	4.93
3.511	3.826	-0.315	441	8312			0.01- 99.99	25.18
3.511	3.826	-0.315	442	178304			50.00- 100.00	92.93
3.511	3.826	-0.315	443	33016			15.00- 24.00	18.52

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9980.d

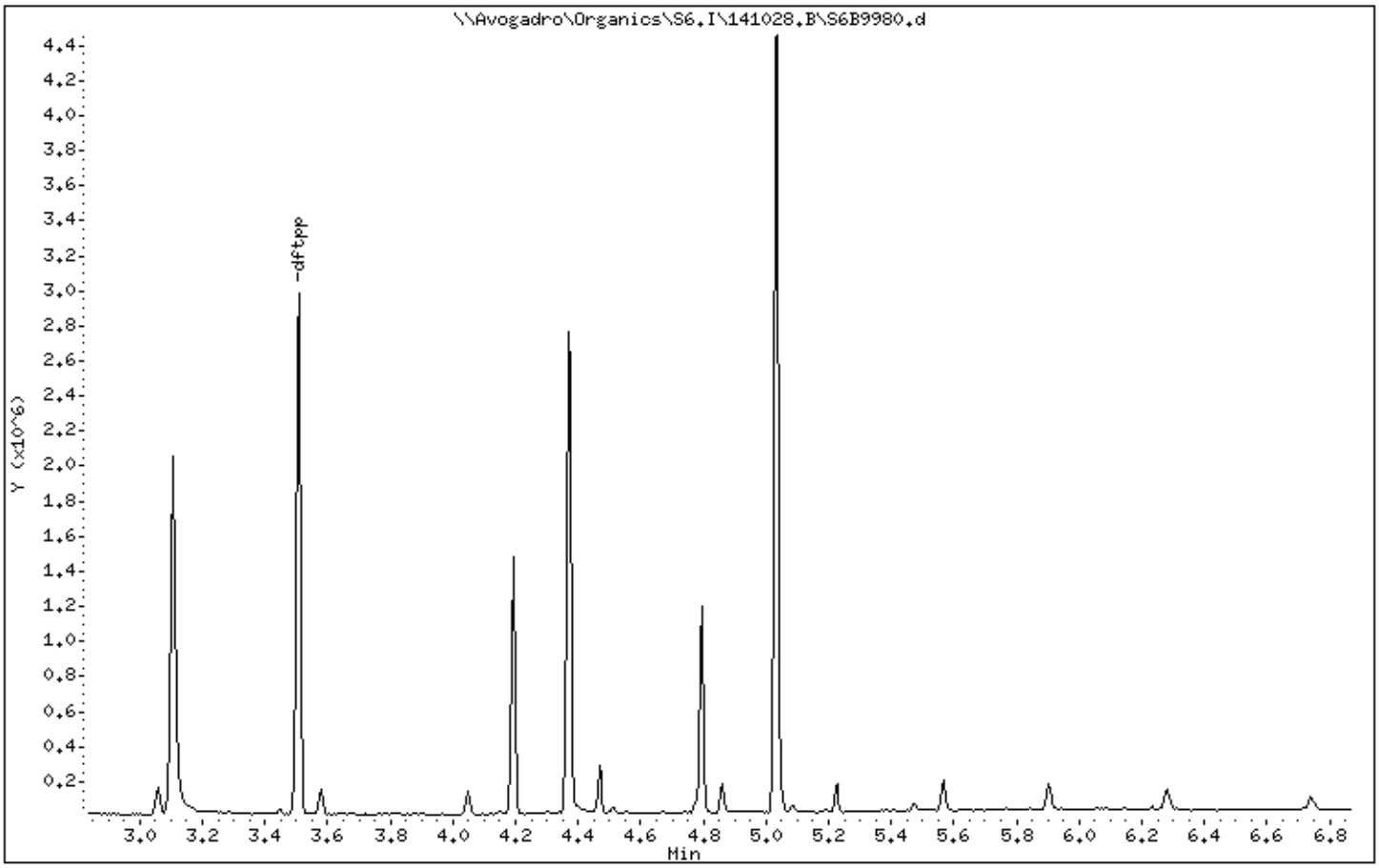
Date : 28-OCT-2014 10:01

Client ID: DFTPP60 Instrument: S6.i

Sample Info: DFTPP60,DFTPP60

Volume Injected (uL): 2.0 Operator: CLM SRC: CLM

Column phase: RXi-5SILMS Column diameter: 0.25



Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9980.d

Date : 28-OCT-2014 10:01

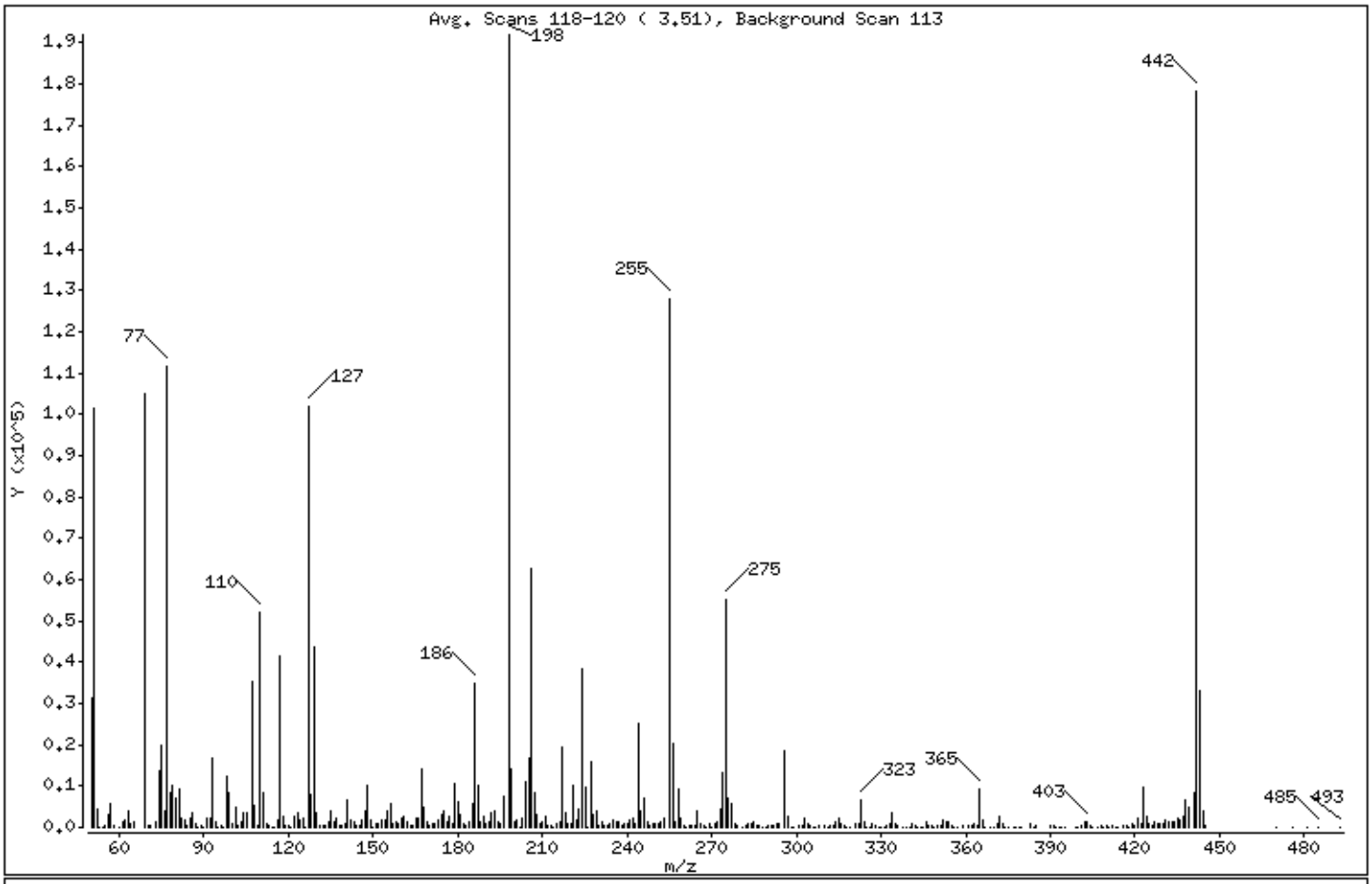
Client ID: DFTPP60 Instrument: S6.i

Sample Info: DFTPP60,DFTPP60

Volume Injected (uL): 2.0 Operator: CLM SRC: CLM

Column phase: RXi-5SILMS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	52.99
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	54.65
70	Less than 2.00% of mass 69	0.19 (0.34)
127	10.00 - 80.00% of mass 198	53.14
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.32
275	10.00 - 60.00% of mass 198	28.76
365	Greater than 1.00% of mass 198	4.93
441	Present, but less than mass 443	4.33
442	50.00 - 100.00% of mass 198	92.93
443	15.00 - 24.00% of mass 442	17.21 (18.52)

Date : 28-OCT-2014 10:01

Client ID: DFTPP60 Instrument: S6.i

Sample Info: DFTPP60,DFTPP60

Volume Injected (uL): 2.0 Operator: CLM SRC: CLM

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B9980.d
Spectrum: Avg. Scans 118-120 (3.51), Background Scan 113
Location of Maximum: 198.00
Number of points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	31136	149.00	1740	243.00	997	343.00	70
51.00	101664	150.00	64	244.00	24936	344.00	79
52.00	4592	151.00	662	245.00	4005	345.00	219
53.00	203	152.00	986	246.00	6934	346.00	1306
54.00	92	153.00	1968	247.00	1290	347.00	304
55.00	592	154.00	1596	248.00	473	348.00	308
56.00	3122	155.00	3891	249.00	796	349.00	168
57.00	5679	156.00	5582	250.00	826	350.00	265
58.00	393	157.00	969	251.00	880	351.00	248
60.00	119	158.00	1211	252.00	1228	352.00	1923
61.00	1106	159.00	890	253.00	2272	353.00	1148
62.00	1785	160.00	2291	255.00	128112	354.00	1532
63.00	4069	161.00	2563	256.00	20104	355.00	290
64.00	783	162.00	1179	257.00	1515	356.00	181
65.00	1436	163.00	380	258.00	9094	357.00	53
69.00	104864	164.00	610	259.00	2120	359.00	401
70.00	360	165.00	2383	260.00	264	361.00	304
71.00	439	166.00	2321	261.00	86	362.00	348
73.00	1535	167.00	14116	262.00	245	363.00	886
74.00	13781	168.00	5043	263.00	461	364.00	269
75.00	19968	169.00	1236	264.00	296	365.00	9463
76.00	3980	170.00	446	265.00	3948	366.00	1890
77.00	111704	171.00	753	266.00	955	367.00	167
78.00	8528	172.00	989	267.00	255	369.00	119
79.00	10120	173.00	1672	268.00	15	370.00	189
80.00	6915	174.00	3273	269.00	722	371.00	875
81.00	9380	175.00	3910	270.00	72	372.00	2702
82.00	2078	176.00	1422	271.00	775	373.00	779
83.00	1948	177.00	2828	272.00	1214	374.00	168
84.00	471	178.00	931	273.00	4612	375.00	51
85.00	2021	179.00	10745	274.00	13395	377.00	109
86.00	3442	180.00	6313	275.00	55184	378.00	173
87.00	672	181.00	3200	276.00	7197	379.00	62
88.00	212	182.00	811	277.00	5761	380.00	70
89.00	464	183.00	488	278.00	812	383.00	912

Date : 28-OCT-2014 10:01

Client ID: DFTPP60 Instrument: S6.i

Sample Info: DFTPP60,DFTPP60

Volume Injected (uL): 2.0 Operator: CLM SRC: CLM

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B9980.d
Spectrum: Avg. Scans 118-120 (3.51), Background Scan 113
Location of Maximum: 198.00
Number of points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
90.00	177	184.00	1257	279.00	314	384.00	148
91.00	2182	185.00	5844	281.00	3	385.00	244
92.00	2249	186.00	34992	282.00	262	390.00	435
93.00	16728	187.00	9963	283.00	1038	391.00	299
94.00	1473	188.00	1121	284.00	967	392.00	201
95.00	45	189.00	2498	285.00	1374	393.00	136
96.00	405	190.00	727	286.00	281	394.00	67
97.00	193	191.00	1503	287.00	246	395.00	57
98.00	12441	192.00	3522	288.00	217	399.00	219
99.00	8523	193.00	3985	289.00	165	400.00	131
100.00	886	194.00	1301	290.00	249	401.00	260
101.00	4835	195.00	710	291.00	238	402.00	1203
102.00	280	196.00	7441	292.00	406	403.00	1306
103.00	1135	198.00	191872	293.00	960	404.00	409
104.00	3684	199.00	14045	294.00	746	405.00	52
105.00	3320	200.00	1112	296.00	18720	407.00	71
107.00	35480	201.00	1613	297.00	2634	408.00	231
108.00	5249	202.00	217	298.00	117	409.00	211
109.00	257	203.00	2395	299.00	57	410.00	305
110.00	52112	204.00	11026	301.00	634	411.00	131
111.00	8311	205.00	16672	302.00	472	412.00	413
112.00	1086	206.00	62496	303.00	2287	413.00	77
113.00	369	207.00	8486	304.00	890	414.00	98
114.00	112	208.00	3074	305.00	240	416.00	269
115.00	88	209.00	961	306.00	78	417.00	535
116.00	1764	210.00	1311	307.00	167	418.00	139
117.00	41560	211.00	2611	308.00	519	419.00	942
118.00	2701	212.00	554	310.00	454	420.00	584
119.00	620	213.00	302	311.00	114	421.00	2091
120.00	325	214.00	28	312.00	258	422.00	765
121.00	176	215.00	936	313.00	470	423.00	9677
122.00	2782	216.00	1217	314.00	1160	424.00	2704
123.00	3430	217.00	19568	315.00	2345	425.00	867
124.00	1911	218.00	3477	316.00	1045	426.00	386
125.00	2090	219.00	1018	317.00	467	427.00	1495

Date : 28-OCT-2014 10:01

Client ID: DFTPP60 Instrument: S6.i

Sample Info: DFTPP60,DFTPP60

Volume Injected (uL): 2.0 Operator: CLM SRC: CLM

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B9980.d
Spectrum: Avg. Scans 118-120 (3.51), Background Scan 113
Location of Maximum: 198.00
Number of points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
126.00	138	220.00	736	318.00	67	428.00	759
127.00	101968	221.00	9937	319.00	150	429.00	1078
128.00	7746	222.00	1855	321.00	878	430.00	1045
129.00	43848	223.00	4561	322.00	797	431.00	1822
130.00	3444	224.00	38440	323.00	6571	432.00	1427
131.00	522	225.00	9691	324.00	1158	433.00	1532
132.00	453	226.00	83	325.00	191	434.00	1541
133.00	228	227.00	15805	326.00	50	435.00	2405
134.00	1492	228.00	3209	327.00	1049	436.00	1920
135.00	3841	229.00	3828	328.00	464	437.00	2811
136.00	1259	230.00	631	329.00	123	438.00	6495
137.00	2260	231.00	1130	330.00	198	439.00	4736
138.00	396	232.00	287	331.00	132	441.00	8312
139.00	451	233.00	374	332.00	505	442.00	178304
140.00	675	234.00	1078	333.00	1058	443.00	33016
141.00	6753	235.00	1813	334.00	3381	444.00	3766
142.00	1648	236.00	1210	335.00	1041	445.00	296
143.00	1386	237.00	1497	336.00	257	470.00	61
144.00	383	238.00	548	338.00	150	476.00	54
145.00	318	239.00	801	339.00	79	481.00	66
146.00	1598	240.00	734	340.00	184	485.00	88
147.00	3857	241.00	1616	341.00	682	493.00	60
148.00	10107	242.00	2364	342.00	373		

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79704

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9962.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2´-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79704

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9962.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3´-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
92-52-4	1,1´-Biphenyl	330	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
98-86-2	Acetophenone	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
105-60-2	Caprolactam	330	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79704

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9962.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	4914-92-5	2-Pentene, 3,4-dimethyl-, (E	1.792	270	NJ
02		Unknown	2.298	710	J

[2]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9962.d
Report Date: 28-Oct-2014 12:11

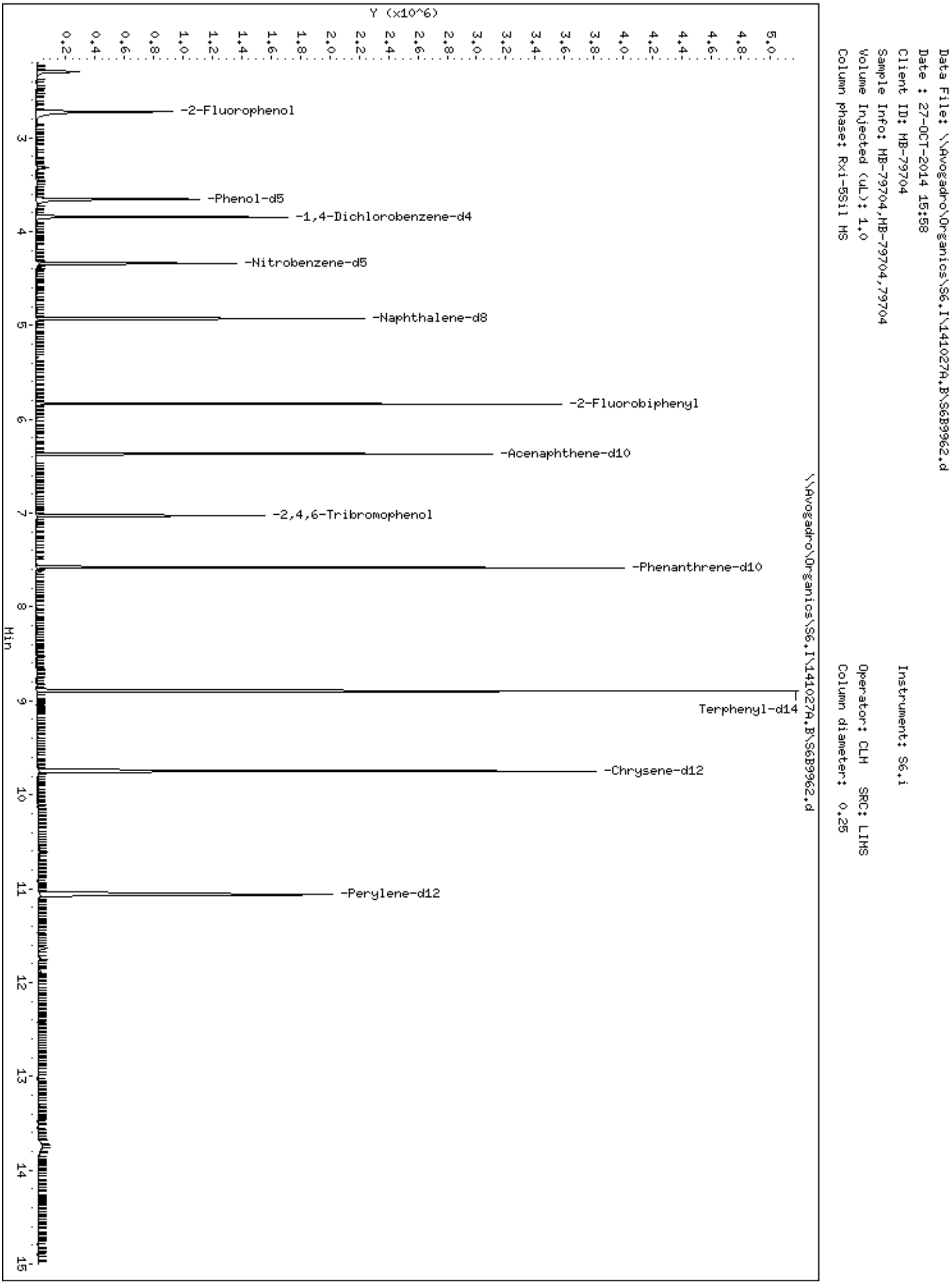
Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9962.d
Lab Smp Id: MB-79704 Client Smp ID: MB-79704
Inj Date : 27-OCT-2014 15:58
Operator : CLM SRC: LIMS Inst ID: S6.i
Smp Info : MB-79704,MB-79704,79704
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141027A.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$ 109 1,4-Dioxane-d8	96	1.145	1.134	(0.298)	20888	10.9659	730
$ 3 2-Fluorophenol	112	2.720	2.720	(0.708)	247594	44.8631	3000
$ 5 Phenol-d5	99	3.654	3.654	(0.951)	311792	41.0809	2700
* 12 1,4-Dichlorobenzene-d4	152	3.842	3.842	(1.000)	185456	40.0000	
$ 22 Nitrobenzene-d5	82	4.336	4.336	(0.880)	344339	45.4281	3000
* 31 Naphthalene-d8	136	4.929	4.929	(1.000)	676253	40.0000	
$ 41 2-Fluorobiphenyl	172	5.834	5.834	(0.916)	678434	46.6121	3100
* 48 Acenaphthene-d10	164	6.369	6.375	(1.000)	449488	40.0000	
$ 60 2,4,6-Tribromophenol	330	7.027	7.027	(0.927)	109764	48.8301	3200
* 64 Phenanthrene-d10	188	7.579	7.579	(1.000)	993045	40.0000	
$ 72 Terphenyl-d14	244	8.895	8.889	(0.913)	1071928	52.9682	3500
* 76 Chrysene-d12	240	9.747	9.747	(1.000)	1130069	40.0000	
* 83 Perylene-d12	264	11.063	11.058	(1.000)	992976	40.0000	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Date : 27-OCT-2014 15:58
Client ID: MB-79704
Sample Info: MB-79704,MB-79704,79704
Volume Injected (uL): 1.0
Column phase: Rxi-5Sil MS
Instrument: S6,i
Operator: CLM SRC: LIMS
Column diameter: 0.25
Y (x10^6)
Min
-2-Fluorophenol
-Phenol-d5
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
Terphenyl-d14
-Chrysene-d12
-Perylene-d12
\\Avogadro\Organics\S6,I\141027A,B\S6B9962.d

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9962.d

Date : 27-OCT-2014 15:58

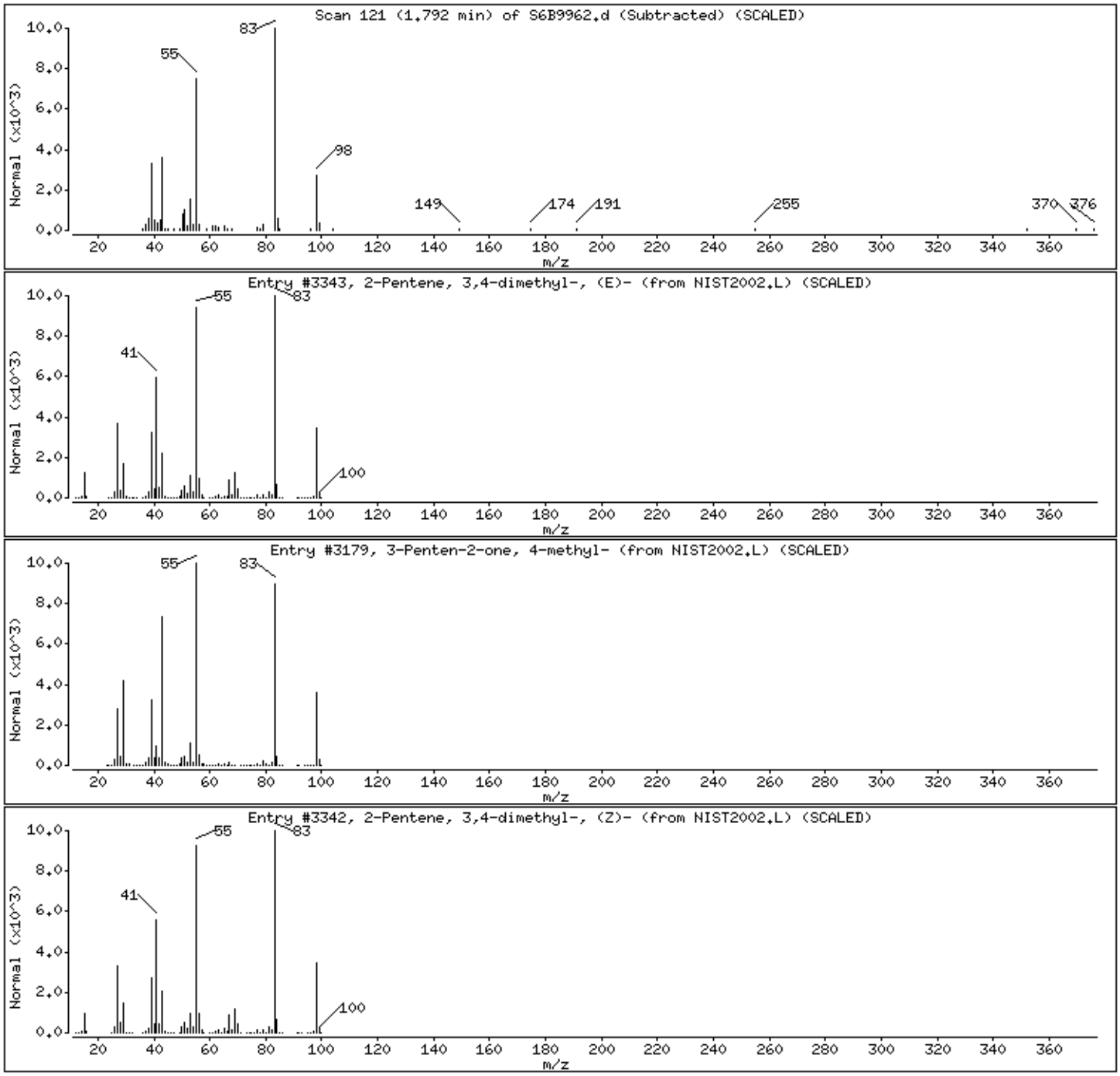
Client ID: MB-79704 Instrument: S6.i

Sample Info: MB-79704,MB-79704,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentene, 3,4-dimethyl-, (E)-	4914-92-5	NIST2002.L	3343	90	C7H14	98
3-Penten-2-one, 4-methyl-	141-79-7	NIST2002.L	3179	86	C6H10O	98
2-Pentene, 3,4-dimethyl-, (Z)-	4914-91-4	NIST2002.L	3342	86	C7H14	98



Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9962.d

Date : 27-OCT-2014 15:58

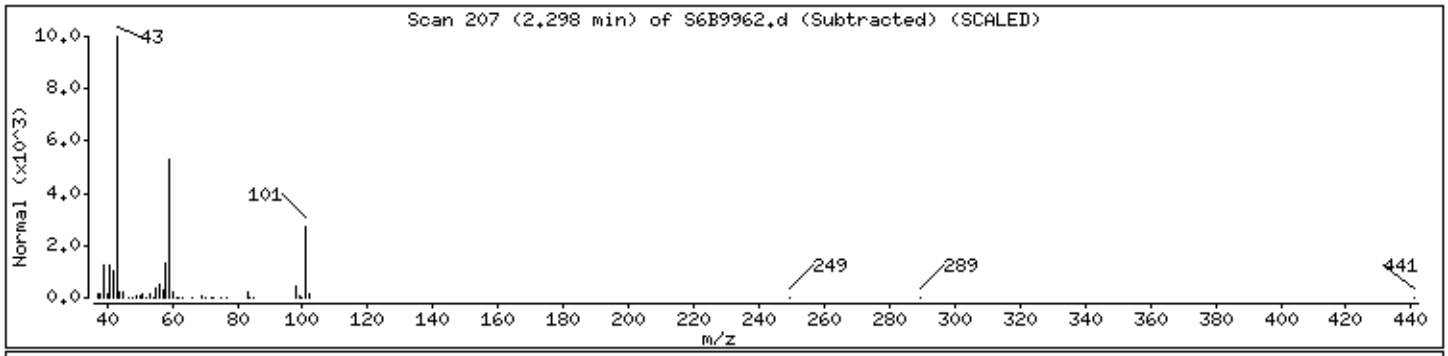
Client ID: MB-79704 Instrument: S6.i

Sample Info: MB-79704,MB-79704,79704

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



EPA SAMPLE NO.
MB-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79722

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9982.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2´-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79722

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9982.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3´-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
92-52-4	1,1´-Biphenyl	330	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
98-86-2	Acetophenone	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
105-60-2	Caprolactam	330	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79722

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9982.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	2.298	660	J

[2]EPA-designated Registry Number.

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9982.d
Report Date: 28-Oct-2014 15:21

Spectrum Analytical, Inc. RI Division

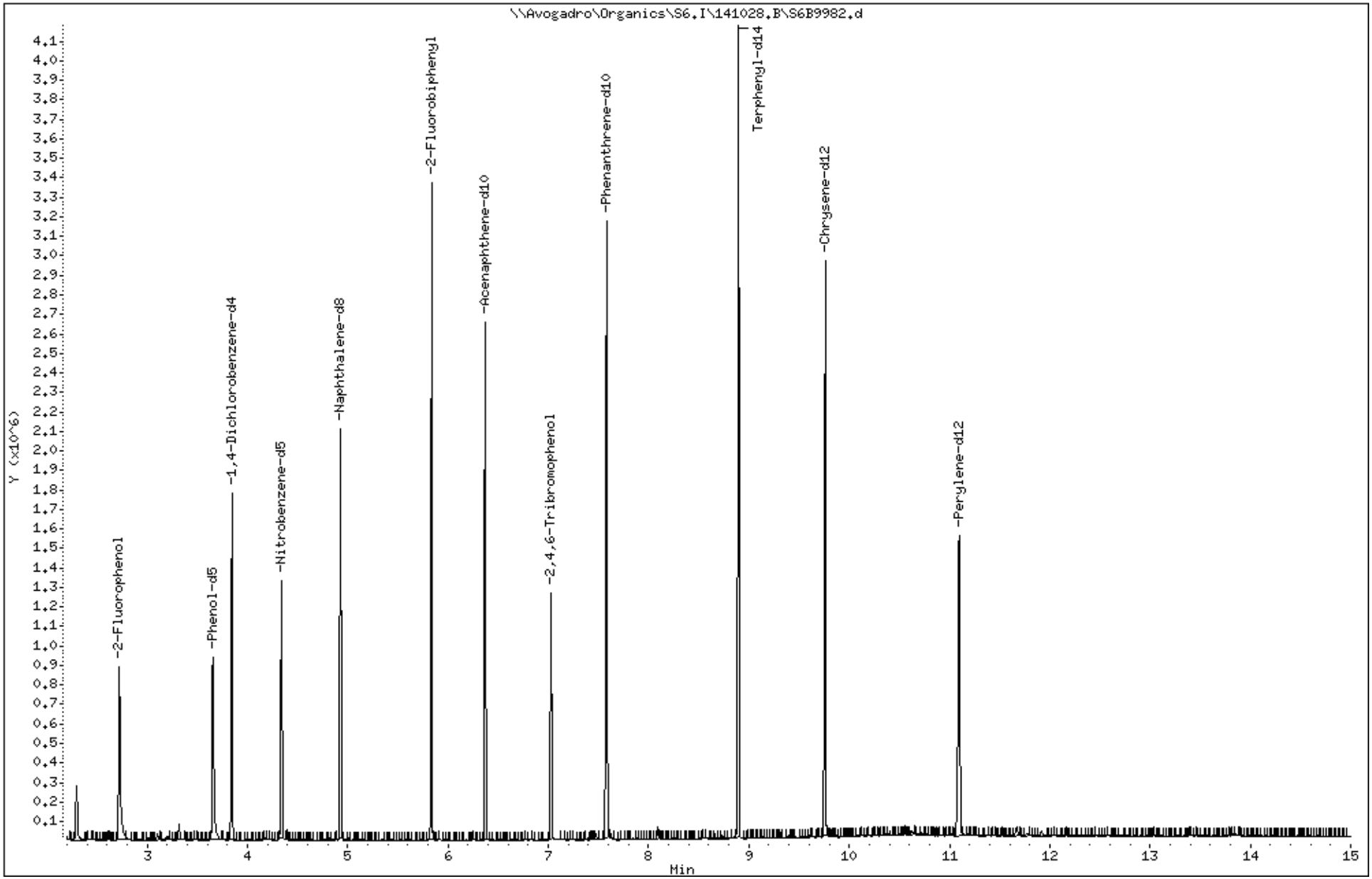
Data file : \\Avogadro\Organics\S6.I\141028.B\S6B9982.d
Lab Smp Id: MB-79722 Client Smp ID: MB-79722
Inj Date : 28-OCT-2014 11:49
Operator : CLM SRC: LIMS Inst ID: S6.i
Smp Info : MB-79722,MB-79722,79722
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141028.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 15:11 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM4_SVOA.sub
Target Version: 4.14
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	2.720	2.720	(0.708)	226187	42.4650	2800
$ 5 Phenol-d5	99	3.655	3.654	(0.951)	277146	37.8354	2500
* 12 1,4-Dichlorobenzene-d4	152	3.843	3.842	(1.000)	178989	40.0000	
$ 22 Nitrobenzene-d5	82	4.336	4.342	(0.880)	329521	47.7418	3200
* 31 Naphthalene-d8	136	4.930	4.929	(1.000)	615789	40.0000	
$ 41 2-Fluorobiphenyl	172	5.834	5.834	(0.916)	625601	48.5629	3200
* 48 Acenaphthene-d10	164	6.369	6.375	(1.000)	397834	40.0000	
$ 60 2,4,6-Tribromophenol	330	7.027	7.027	(0.927)	90261	46.9103	3100
* 64 Phenanthrene-d10	188	7.579	7.585	(1.000)	850018	40.0000	
$ 72 Terphenyl-d14	244	8.896	8.895	(0.912)	848221	52.9921	3500
* 76 Chrysene-d12	240	9.759	9.759	(1.000)	893825	40.0000	
* 83 Perylene-d12	264	11.099	11.081	(1.000)	741698	40.0000	

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9982.d
Date : 28-OCT-2014 11:49
Client ID: MB-79722
Instrument: S6.i
Sample Info: MB-79722,MB-79722,79722
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9982.d

Date : 28-OCT-2014 11:49

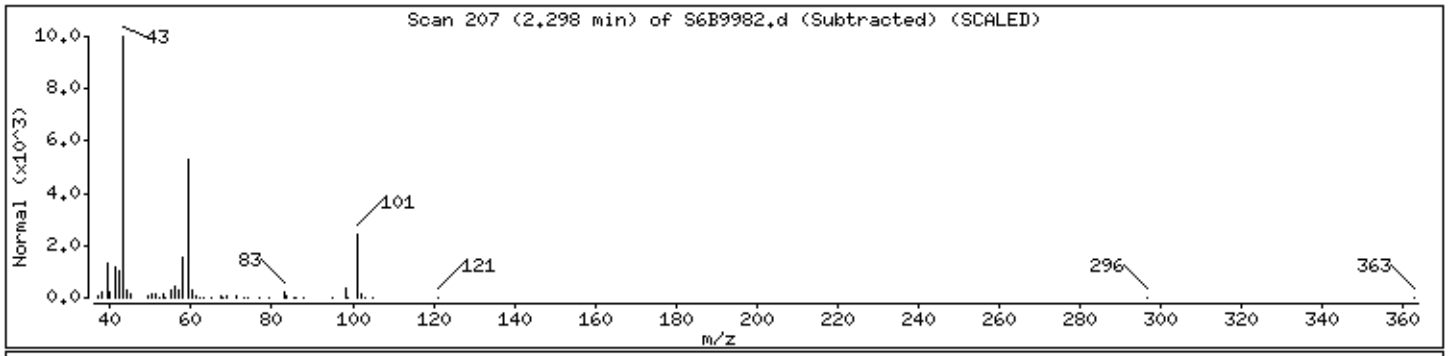
Client ID: MB-79722 Instrument: S6.i

Sample Info: MB-79722,MB-79722,79722

Volume Injected (uL): 1.0 Operator: CLM SRC: LIMS

Column phase: Rxi-5Sil MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79704

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9963.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2700	
111-44-4	Bis(2-chloroethyl)ether	3500	
95-57-8	2-Chlorophenol	2600	
95-48-7	2-Methylphenol	2600	
108-60-1	2,2´-oxybis(1-Chloropropane)	2700	
106-44-5	4-Methylphenol	2700	
621-64-7	N-Nitroso-di-n-propylamine	2600	
67-72-1	Hexachloroethane	3100	
98-95-3	Nitrobenzene	2700	
78-59-1	Isophorone	3200	
88-75-5	2-Nitrophenol	2800	
105-67-9	2,4-Dimethylphenol	2900	
120-83-2	2,4-Dichlorophenol	2900	
91-20-3	Naphthalene	3300	
106-47-8	4-Chloroaniline	320	J
111-91-1	Bis(2-chloroethoxy)methane	2900	
87-68-3	Hexachlorobutadiene	3200	
59-50-7	4-Chloro-3-methylphenol	2900	
91-57-6	2-Methylnaphthalene	2700	
77-47-4	Hexachlorocyclopentadiene	4100	
88-06-2	2,4,6-Trichlorophenol	3100	
95-95-4	2,4,5-Trichlorophenol	3100	
91-58-7	2-Chloronaphthalene	3400	
88-74-4	2-Nitroaniline	3100	
131-11-3	Dimethylphthalate	3300	
208-96-8	Acenaphthylene	3200	
606-20-2	2,6-Dinitrotoluene	3100	
99-09-2	3-Nitroaniline	830	
83-32-9	Acenaphthene	3200	
51-28-5	2,4-Dinitrophenol	3600	
100-02-7	4-Nitrophenol	3300	
132-64-9	Dibenzofuran	3100	
121-14-2	2,4-Dinitrotoluene	3200	
84-66-2	Diethylphthalate	3300	
7005-72-3	4-Chlorophenyl-phenylether	3200	
86-73-7	Fluorene	3100	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79704

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9963.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	2300	
534-52-1	4,6-Dinitro-2-methylphenol	3100	
86-30-6	N-Nitrosodiphenylamine	2700	
101-55-3	4-Bromophenyl-phenylether	3400	
118-74-1	Hexachlorobenzene	3400	
87-86-5	Pentachlorophenol	4000	
85-01-8	Phenanthrene	3300	
120-12-7	Anthracene	3200	
86-74-8	Carbazole	2600	
84-74-2	Di-n-butylphthalate	3300	
206-44-0	Fluoranthene	3200	
129-00-0	Pyrene	3200	
85-68-7	Butylbenzylphthalate	3400	
91-94-1	3,3´-Dichlorobenzidine	320	J
56-55-3	Benzo(a)anthracene	3100	
218-01-9	Chrysene	3200	
117-81-7	Bis(2-ethylhexyl)phthalate	3200	
117-84-0	Di-n-octylphthalate	3900	
205-99-2	Benzo(b)fluoranthene	3500	
207-08-9	Benzo(k)fluoranthene	4000	
50-32-8	Benzo(a)pyrene	3600	
193-39-5	Indeno(1,2,3-cd)pyrene	4000	
53-70-3	Dibenzo(a,h)anthracene	3600	
191-24-2	Benzo(g,h,i)perylene	3500	
92-52-4	1,1´-Biphenyl	3200	
95-94-3	1,2,4,5-Tetrachlorobenzene	3400	
98-86-2	Acetophenone	2900	
1912-24-9	Atrazine	2000	
100-52-7	Benzaldehyde	3100	
105-60-2	Caprolactam	3000	

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9963.d
Report Date: 28-Oct-2014 12:11

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9963.d
Lab Smp Id: LCS-79704 Client Smp ID: LCS-79704
Inj Date : 27-OCT-2014 16:33
Operator : CLM SRC: LIMS Inst ID: S6.i
Smp Info : LCS-79704,LCS-79704,79704
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141027A.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74	1.363	1.345	(0.354)	139480	5.00000	40(a)
	2 Pyridine	79	1.375	1.363	(0.357)	221332	5.00000	36(a)
$	3 2-Fluorophenol	112	2.726	2.720	(0.708)	249443	5.00000	44(a)
	101 Benzaldehyde	77	3.461	3.460	(0.899)	180068	5.00000	46(a)
	7 Aniline	66	3.590	3.572	(0.933)	34379	5.00000	9(a)
$	5 Phenol-d5	99	3.660	3.654	(0.951)	299577	5.00000	38(a)
	6 Phenol	94	3.672	3.666	(0.954)	318634	5.00000	41(a)
	8 bis(2-Chloroethyl)Ether	63	3.643	3.637	(0.947)	206559	5.00000	53(a)
	10 2-Chlorophenol	128	3.701	3.695	(0.962)	245048	5.00000	40(a)
	11 1,3-Dichlorobenzene	146	3.790	3.784	(0.985)	293424	5.00000	44(a)
*	12 1,4-Dichlorobenzene-d4	152	3.848	3.842	(1.000)	191356	40.0000	(a)
	13 1,4-Dichlorobenzene	146	3.860	3.854	(1.003)	303164	5.00000	44(a)
	15 Benzyl Alcohol	108	4.025	4.019	(1.046)	158615	5.00000	37(a)
	16 1,2-Dichlorobenzene	146	3.989	3.983	(1.037)	274251	5.00000	42(a)
	18 2,2'-oxybis(1-Chloropropane)	45	4.119	4.119	(1.070)	218265	5.00000	41(a)
	17 2-Methylphenol	108	4.177	4.166	(1.085)	230068	5.00000	40(a)
	99 Acetophenone	105	4.219	4.213	(1.096)	448476	5.00000	43(a)
	19 N-Nitroso-di-n-propylamine	70	4.248	4.236	(1.104)	214945	5.00000	39(a)
	20 4-Methylphenol	108	4.318	4.312	(1.122)	243629	5.00000	41(a)
	21 Hexachloroethane	117	4.266	4.260	(1.108)	138353	5.00000	46(a)

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9963.d
Report Date: 28-Oct-2014 12:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	22 Nitrobenzene-d5	82	4.342	4.336	(0.881)	356417	5.00000	48(a)
	23 Nitrobenzene	77	4.360	4.354	(0.884)	380398	5.00000	40(a)
	24 Isophorone	82	4.577	4.565	(0.928)	581177	5.00000	47(a)
	25 2-Nitrophenol	139	4.630	4.624	(0.939)	145076	5.00000	42(a)
	26 2,4-Dimethylphenol	107	4.736	4.730	(0.961)	312373	5.00000	43(a)
	27 bis(2-Chloroethoxy)methane	93	4.771	4.765	(0.968)	321490	5.00000	44(a)
	28 Benzoic Acid	105	4.941	4.906	(1.002)	206014	5.00000	110(aAQ)
	29 2,4-Dichlorophenol	162	4.871	4.871	(0.988)	237077	5.00000	44(a)
	30 1,2,4-Trichlorobenzene	180	4.888	4.888	(0.992)	270174	5.00000	44(a)
*	31 Naphthalene-d8	136	4.929	4.929	(1.000)	659651	40.0000	(a)
	32 Naphthalene	128	4.947	4.947	(1.004)	784371	5.00000	49(a)
	33 4-Chloroaniline	127	5.053	5.029	(1.025)	33587	5.00000	5(a)
	34 Hexachlorobutadiene	225	5.053	5.053	(1.025)	207847	5.00000	48(a)
	102 Caprolactam	113	5.376	5.358	(1.091)	87197	5.00000	45(a)
	35 4-Chloro-3-Methylphenol	107	5.511	5.499	(1.118)	288593	5.00000	44(a)
	36 2-Methylnaphthalene	142	5.529	5.523	(1.122)	676178	5.00000	40(a)
	114 1-Methylnaphthalene	142	5.605	5.599	(1.137)	488042	5.00000	43(a)
	38 Hexachlorocyclopentadiene	237	5.652	5.646	(0.887)	189654	5.00000	61(a)
	112 1,2,4,5-Tetrachlorobenzene	216	5.664	5.664	(0.888)	314791	5.00000	51(a)
	39 2,4,6-Trichlorophenol	196	5.799	5.793	(0.910)	198740	5.00000	46(a)
	40 2,4,5-Trichlorophenol	196	5.858	5.852	(0.919)	205782	5.00000	46(a)
$	41 2-Fluorobiphenyl	172	5.840	5.834	(0.916)	673915	5.00000	48(a)
	98 1,1'-Biphenyl	154	5.917	5.916	(0.928)	735449	5.00000	48(a)
	42 2-Chloronaphthalene	162	5.928	5.922	(0.930)	589263	5.00000	51(a)
	43 2-Nitroaniline	65	6.046	6.040	(0.948)	208805	5.00000	46(a)
	44 Dimethylphthalate	163	6.199	6.193	(0.972)	725613	5.00000	49(a)
	45 2,6-Dinitrotoluene	165	6.251	6.245	(0.981)	166321	5.00000	47(a)
	46 Acenaphthylene	152	6.257	6.257	(0.982)	900537	5.00000	47(a)
	47 3-Nitroaniline	138	6.387	6.386	(1.002)	45349	5.00000	12(a)
*	48 Acenaphthene-d10	164	6.375	6.375	(1.000)	433580	40.0000	(a)
	49 Acenaphthene	153	6.404	6.398	(1.005)	601431	5.00000	48(a)
	50 2,4-Dinitrophenol	184	6.486	6.481	(1.018)	85503	5.00000	55(aQ)
	51 4-Nitrophenol	109	6.627	6.627	(1.040)	134482	5.00000	50(a)
	53 2,4-Dinitrotoluene	165	6.580	6.575	(1.032)	231644	5.00000	48(a)
	52 Dibenzofuran	168	6.545	6.545	(1.027)	780917	5.00000	46(a)
	110 2,3,4,6-Tetrachlorophenol	232	6.680	6.674	(1.048)	178479	5.00000	47(a)
	54 Diethylphthalate	149	6.774	6.768	(1.063)	733159	5.00000	49(a)
	56 4-Chlorophenyl-phenylether	204	6.833	6.833	(1.072)	390228	5.00000	48(a)
	55 Fluorene	166	6.827	6.821	(1.071)	719736	5.00000	47(a)
	57 4-Nitroaniline	138	6.898	6.892	(1.082)	109562	5.00000	34(a)
	58 4,6-Dinitro-2-methylphenol	198	6.915	6.909	(0.912)	134574	5.00000	46(a)
	59 N-Nitrosodiphenylamine	169	6.945	6.939	(0.916)	520570	5.00000	41(a)
	97 Azobenzene	77	6.962	6.962	(0.918)	871025	5.00000	49(a)
$	60 2,4,6-Tribromophenol	330	7.033	7.027	(0.927)	104092	5.00000	51(a)
	61 4-Bromophenyl-phenylether	248	7.227	7.227	(0.953)	238512	5.00000	52(a)
	62 Hexachlorobenzene	284	7.268	7.262	(0.958)	231372	5.00000	51(a)
	100 Atrazine	200	7.409	7.403	(0.977)	136255	5.00000	29(a)
	63 Pentachlorophenol	266	7.462	7.456	(0.984)	103063	5.00000	60(a)
*	64 Phenanthrene-d10	188	7.585	7.579	(1.000)	895471	40.0000	(a)
	65 Phenanthrene	178	7.603	7.597	(1.002)	1066110	5.00000	49(a)
	66 Anthracene	178	7.644	7.638	(1.008)	1060020	5.00000	48(a)
	67 Carbazole	167	7.803	7.797	(1.029)	759005	5.00000	39(a)
	68 Di-n-butylphthalate	149	8.096	8.090	(1.067)	1238316	5.00000	50(a)
	69 Fluoranthene	202	8.566	8.566	(1.129)	1294559	5.00000	48(a)

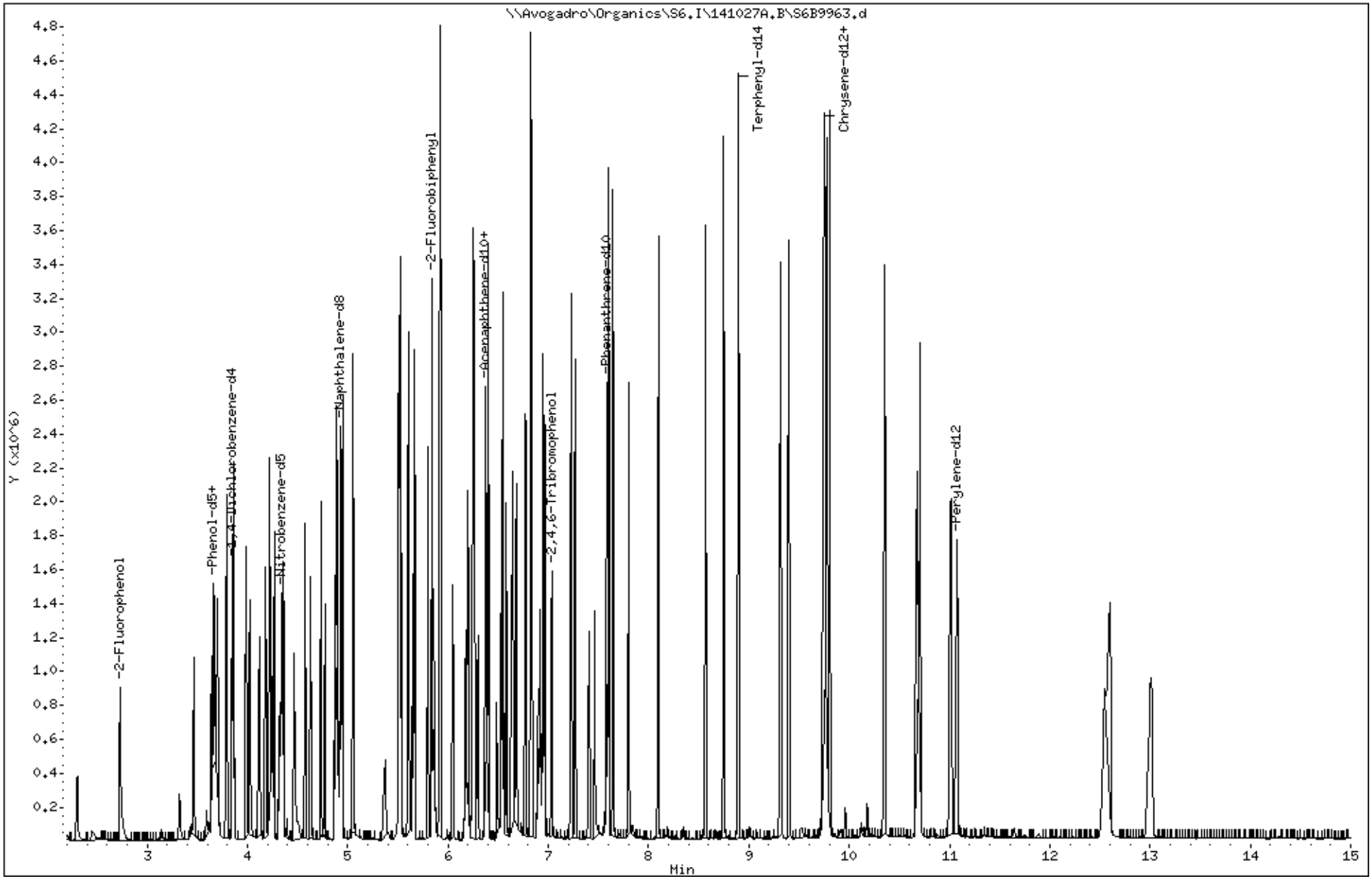
Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9963.d
Report Date: 28-Oct-2014 12:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	71 Pyrene	202	8.749	8.743	(0.896)	1304822	5.00000	48(a)
$	72 Terphenyl-d14	244	8.895	8.889	(0.912)	909559	5.00000	50(a)
	73 Butylbenzylphthalate	149	9.313	9.307	(0.954)	590012	5.00000	50(a)
	74 3,3'-Dichlorobenzidine	252	9.742	9.736	(0.998)	44900	5.00000	5(a)
	75 Benzo(a)anthracene	228	9.747	9.736	(0.999)	1328497	5.00000	46(a)
	78 bis(2-Ethylhexyl)phthalate	149	9.806	9.794	(1.005)	840020	5.00000	47(a)
*	76 Chrysene-d12	240	9.759	9.747	(1.000)	1019741	40.0000	(a)
	77 Chrysene	228	9.777	9.765	(1.002)	1208801	5.00000	48(a)
	79 Di-n-octylphthalate	149	10.353	10.335	(0.935)	1413018	5.00000	59(a)
	80 Benzo(b)fluoranthene	252	10.676	10.658	(0.964)	1157770	5.00000	53(a)
	81 Benzo(k)fluoranthene	252	10.705	10.682	(0.967)	1252537	5.00000	61(a)
	82 Benzo(a)pyrene	252	11.017	10.987	(0.995)	1047774	5.00000	53(a)
*	83 Perylene-d12	264	11.075	11.058	(1.000)	731464	40.0000	(a)
	84 Indeno(1,2,3-cd)pyrene	276	12.550	12.521	(1.133)	1173887	5.00000	60(a)
	85 Dibenzo(a,h)anthracene	278	12.603	12.568	(1.138)	983158	5.00000	54(a)
	86 Benzo(g,h,i)perylene	276	13.014	12.979	(1.175)	948926	5.00000	53(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9963.d
Date : 27-OCT-2014 16:33
Client ID: LCS-79704
Instrument: S6.i
Sample Info: LCS-79704,LCS-79704,79704
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79722

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9983.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2700	
111-44-4	Bis(2-chloroethyl)ether	3600	
95-57-8	2-Chlorophenol	2600	
95-48-7	2-Methylphenol	2600	
108-60-1	2,2´-oxybis(1-Chloropropane)	2700	
106-44-5	4-Methylphenol	2700	
621-64-7	N-Nitroso-di-n-propylamine	2600	
67-72-1	Hexachloroethane	2900	
98-95-3	Nitrobenzene	2500	
78-59-1	Isophorone	3000	
88-75-5	2-Nitrophenol	2700	
105-67-9	2,4-Dimethylphenol	2700	
120-83-2	2,4-Dichlorophenol	2700	
91-20-3	Naphthalene	3100	
106-47-8	4-Chloroaniline	1600	
111-91-1	Bis(2-chloroethoxy)methane	2800	
87-68-3	Hexachlorobutadiene	3100	
59-50-7	4-Chloro-3-methylphenol	2900	
91-57-6	2-Methylnaphthalene	2400	
77-47-4	Hexachlorocyclopentadiene	3300	
88-06-2	2,4,6-Trichlorophenol	3000	
95-95-4	2,4,5-Trichlorophenol	3000	
91-58-7	2-Chloronaphthalene	3100	
88-74-4	2-Nitroaniline	3000	
131-11-3	Dimethylphthalate	3300	
208-96-8	Acenaphthylene	3100	
606-20-2	2,6-Dinitrotoluene	3200	
99-09-2	3-Nitroaniline	2100	
83-32-9	Acenaphthene	3100	
51-28-5	2,4-Dinitrophenol	2500	
100-02-7	4-Nitrophenol	3200	
132-64-9	Dibenzofuran	3000	
121-14-2	2,4-Dinitrotoluene	3100	
84-66-2	Diethylphthalate	3300	
7005-72-3	4-Chlorophenyl-phenylether	3300	
86-73-7	Fluorene	3200	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79722

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9983.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	2900	
534-52-1	4,6-Dinitro-2-methylphenol	2400	
86-30-6	N-Nitrosodiphenylamine	3000	
101-55-3	4-Bromophenyl-phenylether	3200	
118-74-1	Hexachlorobenzene	3400	
87-86-5	Pentachlorophenol	3500	
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	3200	
86-74-8	Carbazole	3000	
84-74-2	Di-n-butylphthalate	3200	
206-44-0	Fluoranthene	3100	
129-00-0	Pyrene	3100	
85-68-7	Butylbenzylphthalate	3200	
91-94-1	3,3´-Dichlorobenzidine	2400	
56-55-3	Benzo(a)anthracene	3100	
218-01-9	Chrysene	3300	
117-81-7	Bis(2-ethylhexyl)phthalate	3200	
117-84-0	Di-n-octylphthalate	3500	
205-99-2	Benzo(b)fluoranthene	3200	
207-08-9	Benzo(k)fluoranthene	3400	
50-32-8	Benzo(a)pyrene	3200	
193-39-5	Indeno(1,2,3-cd)pyrene	3200	
53-70-3	Dibenzo(a,h)anthracene	3100	
191-24-2	Benzo(g,h,i)perylene	3100	
92-52-4	1,1´-Biphenyl	3100	
95-94-3	1,2,4,5-Tetrachlorobenzene	3200	
98-86-2	Acetophenone	2500	
1912-24-9	Atrazine	2700	
100-52-7	Benzaldehyde	790	
105-60-2	Caprolactam	2900	

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9983.d
Report Date: 28-Oct-2014 15:58

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141028.B\S6B9983.d
Lab Smp Id: LCS-79722 Client Smp ID: LCS-79722
Inj Date : 28-OCT-2014 12:10
Operator : CLM SRC: LIMS Inst ID: S6.i
Smp Info : LCS-79722,LCS-79722,79722
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141028.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 15:11 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74	1.363	1.345	(0.354)	133622	5.00000	40
	2 Pyridine	79	1.375	1.369	(0.357)	181247	5.00000	30
$	3 2-Fluorophenol	112	2.726	2.720	(0.708)	234475	5.00000	43
	101 Benzaldehyde	77	3.461	3.460	(0.899)	43843	5.00000	12
	7 Aniline	66	3.578	3.572	(0.930)	116871	5.00000	31
$	5 Phenol-d5	99	3.660	3.654	(0.951)	299981	5.00000	40
	6 Phenol	94	3.666	3.666	(0.953)	306591	5.00000	41
	8 bis(2-Chloroethyl)Ether	63	3.643	3.637	(0.947)	201231	5.00000	54
	10 2-Chlorophenol	128	3.696	3.695	(0.960)	232556	5.00000	39
	11 1,3-Dichlorobenzene	146	3.790	3.784	(0.985)	269196	5.00000	42
*	12 1,4-Dichlorobenzene-d4	152	3.848	3.842	(1.000)	183583	40.0000	
	13 1,4-Dichlorobenzene	146	3.860	3.854	(1.003)	273604	5.00000	41
	15 Benzyl Alcohol	108	4.025	4.019	(1.046)	161489	5.00000	40
	16 1,2-Dichlorobenzene	146	3.989	3.983	(1.037)	265606	5.00000	42
	18 2,2'-oxybis(1-Chloropropane)	45	4.119	4.119	(1.070)	208521	5.00000	40
	17 2-Methylphenol	108	4.177	4.171	(1.085)	214922	5.00000	39
	99 Acetophenone	105	4.218	4.213	(1.096)	367349	5.00000	37
	19 N-Nitroso-di-n-propylamine	70	4.248	4.236	(1.104)	204681	5.00000	39
	20 4-Methylphenol	108	4.313	4.312	(1.121)	230415	5.00000	41

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9983.d
Report Date: 28-Oct-2014 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	21 Hexachloroethane	117	4.266	4.265	(1.108)	126470	5.00000	44
$	22 Nitrobenzene-d5	82	4.342	4.342	(0.880)	345068	5.00000	47
	23 Nitrobenzene	77	4.360	4.354	(0.883)	353362	5.00000	38
	24 Isophorone	82	4.571	4.565	(0.926)	547916	5.00000	45
	25 2-Nitrophenol	139	4.630	4.624	(0.938)	136479	5.00000	40
	26 2,4-Dimethylphenol	107	4.730	4.730	(0.958)	290472	5.00000	41
	27 bis(2-Chloroethoxy)methane	93	4.771	4.765	(0.967)	309186	5.00000	43
	28 Benzoic Acid	105	4.935	4.912	(1.000)	171185	5.00000	97(AQ)
	29 2,4-Dichlorophenol	162	4.871	4.871	(0.987)	216056	5.00000	41
	30 1,2,4-Trichlorobenzene	180	4.888	4.888	(0.990)	257582	5.00000	43
*	31 Naphthalene-d8	136	4.935	4.929	(1.000)	652138	40.0000	
	32 Naphthalene	128	4.953	4.947	(1.004)	741835	5.00000	47
	115 alpha-Terpineol	59	5.053	4.982	(1.024)	8522	5.00000	2(aQ)
	33 4-Chloroaniline	127	5.029	5.029	(1.019)	162418	5.00000	24
	34 Hexachlorobutadiene	225	5.053	5.053	(1.024)	196038	5.00000	46
	102 Caprolactam	113	5.382	5.364	(1.090)	83357	5.00000	44
	35 4-Chloro-3-Methylphenol	107	5.505	5.499	(1.115)	279830	5.00000	43(Q)
	36 2-Methylnaphthalene	142	5.529	5.523	(1.120)	598217	5.00000	36
	114 1-Methylnaphthalene	142	5.605	5.605	(1.136)	457524	5.00000	41
	38 Hexachlorocyclopentadiene	237	5.652	5.652	(0.887)	154633	5.00000	49
	112 1,2,4,5-Tetrachlorobenzene	216	5.664	5.664	(0.888)	301258	5.00000	49
	39 2,4,6-Trichlorophenol	196	5.799	5.793	(0.910)	194529	5.00000	44
	40 2,4,5-Trichlorophenol	196	5.852	5.852	(0.918)	201727	5.00000	45
$	41 2-Fluorobiphenyl	172	5.840	5.834	(0.916)	683471	5.00000	48
	98 1,1'-Biphenyl	154	5.917	5.916	(0.928)	726804	5.00000	47
	42 2-Chloronaphthalene	162	5.928	5.922	(0.930)	546082	5.00000	46
	43 2-Nitroaniline	65	6.046	6.040	(0.948)	208357	5.00000	46
	44 Dimethylphthalate	163	6.199	6.193	(0.972)	732731	5.00000	49
	45 2,6-Dinitrotoluene	165	6.251	6.245	(0.981)	169936	5.00000	48
	46 Acenaphthylene	152	6.257	6.257	(0.982)	889091	5.00000	46
	47 3-Nitroaniline	138	6.392	6.386	(1.003)	116352	5.00000	32
*	48 Acenaphthene-d10	164	6.375	6.375	(1.000)	437758	40.0000	
	49 Acenaphthene	153	6.404	6.398	(1.005)	588992	5.00000	46
	50 2,4-Dinitrophenol	184	6.486	6.480	(1.018)	59813	5.00000	38(Q)
	51 4-Nitrophenol	109	6.627	6.627	(1.040)	130456	5.00000	48
	53 2,4-Dinitrotoluene	165	6.580	6.575	(1.032)	228055	5.00000	47
	52 Dibenzofuran	168	6.545	6.545	(1.027)	764784	5.00000	45
	110 2,3,4,6-Tetrachlorophenol	232	6.680	6.674	(1.048)	173973	5.00000	45
	54 Diethylphthalate	149	6.774	6.768	(1.063)	746722	5.00000	49
	56 4-Chlorophenyl-phenylether	204	6.833	6.833	(1.072)	399136	5.00000	49
	55 Fluorene	166	6.827	6.821	(1.071)	732957	5.00000	47
	57 4-Nitroaniline	138	6.904	6.892	(1.083)	139718	5.00000	44
	58 4,6-Dinitro-2-methylphenol	198	6.921	6.915	(0.912)	109232	5.00000	36
	59 N-Nitrosodiphenylamine	169	6.951	6.945	(0.916)	607755	5.00000	45
	97 Azobenzene	77	6.968	6.962	(0.919)	909036	5.00000	48
$	60 2,4,6-Tribromophenol	330	7.033	7.027	(0.927)	108216	5.00000	50
	61 4-Bromophenyl-phenylether	248	7.227	7.227	(0.953)	231608	5.00000	47
	62 Hexachlorobenzene	284	7.268	7.268	(0.958)	240970	5.00000	50
	100 Atrazine	200	7.409	7.403	(0.977)	196191	5.00000	40
	111 Pentachloronitrobenzene	237	7.462	7.444	(0.984)	4769	5.00000	2(aQ)
	63 Pentachlorophenol	266	7.462	7.462	(0.984)	93965	5.00000	52
*	64 Phenanthrene-d10	188	7.585	7.585	(1.000)	947155	40.0000	
	65 Phenanthrene	178	7.603	7.603	(1.002)	1077715	5.00000	47
	66 Anthracene	178	7.644	7.644	(1.008)	1125348	5.00000	48

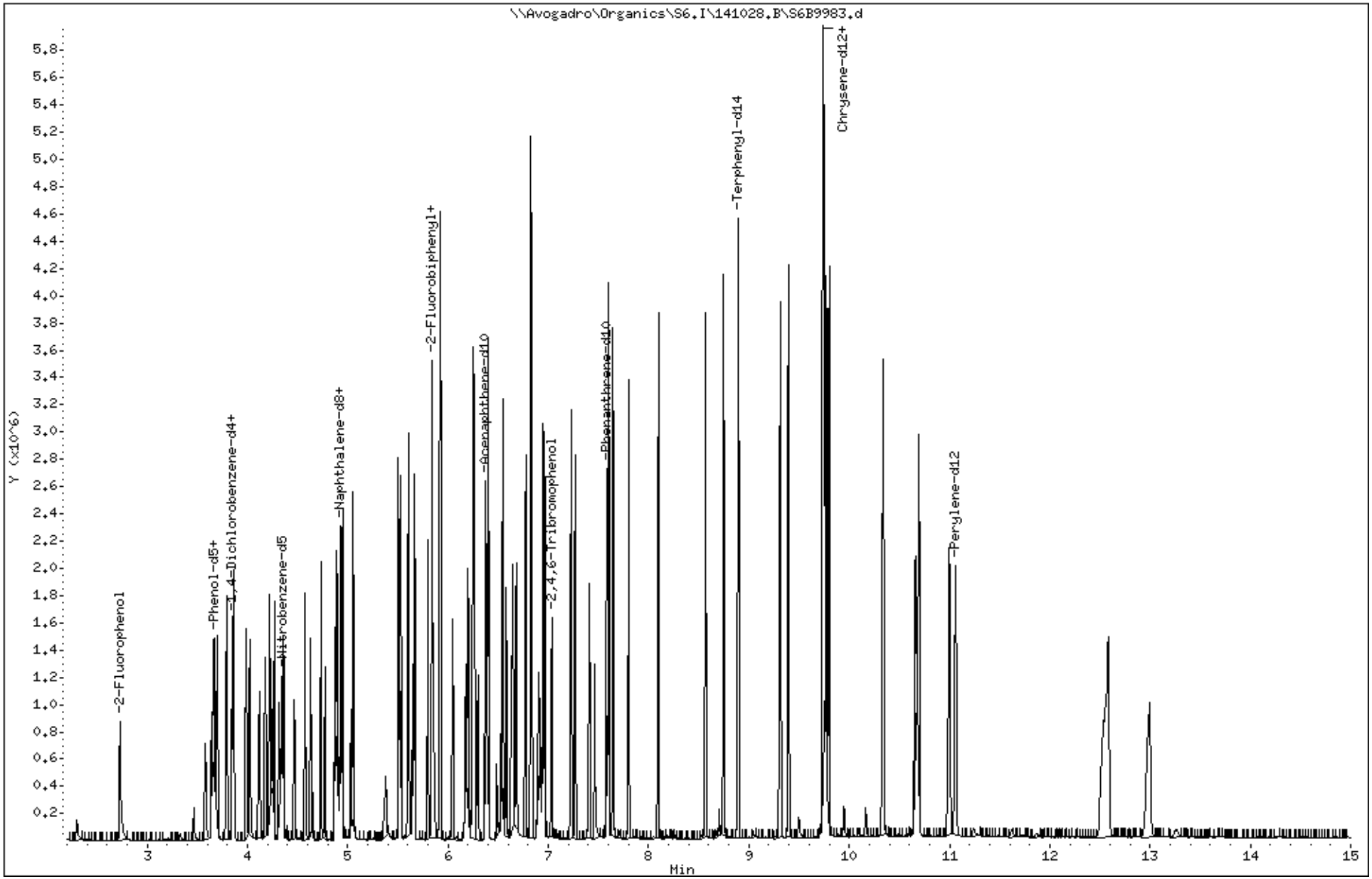
Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9983.d
Report Date: 28-Oct-2014 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67	Carbazole	167	7.803	7.802	(1.029)	918885	5.00000	45
68	Di-n-butylphthalate	149	8.096	8.096	(1.067)	1266242	5.00000	48
69	Fluoranthene	202	8.566	8.566	(1.129)	1338052	5.00000	47
70	Benzidine	184	8.702	8.701	(0.892)	72947	5.00000	8(a)
71	Pyrene	202	8.749	8.748	(0.897)	1367367	5.00000	46
$ 72	Terphenyl-d14	244	8.895	8.895	(0.912)	959904	5.00000	48
73	Butylbenzylphthalate	149	9.313	9.313	(0.955)	618603	5.00000	49
74	3,3'-Dichlorobenzidine	252	9.742	9.747	(0.999)	363630	5.00000	36
75	Benzo(a)anthracene	228	9.742	9.747	(0.999)	1445412	5.00000	46
78	bis(2-Ethylhexyl)phthalate	149	9.800	9.806	(1.005)	918697	5.00000	48
* 76	Chrysene-d12	240	9.753	9.759	(1.000)	1108090	40.0000	
77	Chrysene	228	9.771	9.777	(1.002)	1329284	5.00000	49
79	Di-n-octylphthalate	149	10.341	10.352	(0.935)	1544880	5.00000	53
80	Benzo(b)fluoranthene	252	10.664	10.676	(0.964)	1262032	5.00000	48
81	Benzo(k)fluoranthene	252	10.693	10.705	(0.967)	1270393	5.00000	51
82	Benzo(a)pyrene	252	10.999	11.011	(0.994)	1129195	5.00000	48
* 83	Perylene-d12	264	11.064	11.081	(1.000)	883991	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	12.538	12.550	(1.133)	1117827	5.00000	48
85	Dibenzo(a,h)anthracene	278	12.585	12.591	(1.138)	1012690	5.00000	46
86	Benzo(g,h,i)perylene	276	12.997	13.002	(1.175)	996488	5.00000	46

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9983.d
Date : 28-OCT-2014 12:10
Client ID: LCS-79722
Instrument: S6.i
Sample Info: LCS-79722,LCS-79722,79722
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-79704

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9964.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2700	
111-44-4	Bis(2-chloroethyl)ether	3600	
95-57-8	2-Chlorophenol	2600	
95-48-7	2-Methylphenol	2600	
108-60-1	2,2´-oxybis(1-Chloropropane)	2700	
106-44-5	4-Methylphenol	2700	
621-64-7	N-Nitroso-di-n-propylamine	2600	
67-72-1	Hexachloroethane	3100	
98-95-3	Nitrobenzene	2500	
78-59-1	Isophorone	3000	
88-75-5	2-Nitrophenol	2700	
105-67-9	2,4-Dimethylphenol	2700	
120-83-2	2,4-Dichlorophenol	2700	
91-20-3	Naphthalene	3100	
106-47-8	4-Chloroaniline	1200	
111-91-1	Bis(2-chloroethoxy)methane	2800	
87-68-3	Hexachlorobutadiene	3000	
59-50-7	4-Chloro-3-methylphenol	2800	
91-57-6	2-Methylnaphthalene	2100	
77-47-4	Hexachlorocyclopentadiene	3700	
88-06-2	2,4,6-Trichlorophenol	2900	
95-95-4	2,4,5-Trichlorophenol	2900	
91-58-7	2-Chloronaphthalene	3200	
88-74-4	2-Nitroaniline	3100	
131-11-3	Dimethylphthalate	3200	
208-96-8	Acenaphthylene	3100	
606-20-2	2,6-Dinitrotoluene	3100	
99-09-2	3-Nitroaniline	1800	
83-32-9	Acenaphthene	3100	
51-28-5	2,4-Dinitrophenol	3500	
100-02-7	4-Nitrophenol	3400	
132-64-9	Dibenzofuran	2900	
121-14-2	2,4-Dinitrotoluene	3200	
84-66-2	Diethylphthalate	3300	
7005-72-3	4-Chlorophenyl-phenylether	3000	
86-73-7	Fluorene	3100	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-79704

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-79704

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9964.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/27/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	2900	
534-52-1	4,6-Dinitro-2-methylphenol	3000	
86-30-6	N-Nitrosodiphenylamine	3100	
101-55-3	4-Bromophenyl-phenylether	3200	
118-74-1	Hexachlorobenzene	3400	
87-86-5	Pentachlorophenol	3800	
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	3200	
86-74-8	Carbazole	3100	
84-74-2	Di-n-butylphthalate	3300	
206-44-0	Fluoranthene	3200	
129-00-0	Pyrene	3200	
85-68-7	Butylbenzylphthalate	3400	
91-94-1	3,3´-Dichlorobenzidine	2600	
56-55-3	Benzo(a)anthracene	3300	
218-01-9	Chrysene	3400	
117-81-7	Bis(2-ethylhexyl)phthalate	3300	
117-84-0	Di-n-octylphthalate	3600	
205-99-2	Benzo(b)fluoranthene	3200	
207-08-9	Benzo(k)fluoranthene	3800	
50-32-8	Benzo(a)pyrene	3400	
193-39-5	Indeno(1,2,3-cd)pyrene	3300	
53-70-3	Dibenzo(a,h)anthracene	3300	
191-24-2	Benzo(g,h,i)perylene	3300	
92-52-4	1,1´-Biphenyl	3100	
95-94-3	1,2,4,5-Tetrachlorobenzene	3300	
98-86-2	Acetophenone	2700	
1912-24-9	Atrazine	2700	
100-52-7	Benzaldehyde	2300	
105-60-2	Caprolactam	2900	

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9964.d
Report Date: 28-Oct-2014 12:12

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141027A.B\S6B9964.d
Lab Smp Id: LCSD-79704 Client Smp ID: LCSD-79704
Inj Date : 27-OCT-2014 16:53
Operator : CLM SRC: LIMS Inst ID: S6.i
Smp Info : LCSD-79704,LCSD-79704,79704
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141027A.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 12:10 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74	1.363	1.345	(0.354)	134432	5.00000	38(a)
	2 Pyridine	79	1.375	1.363	(0.357)	160233	5.00000	25(a)
$	3 2-Fluorophenol	112	2.726	2.720	(0.708)	237499	5.00000	41(a)
	101 Benzaldehyde	77	3.460	3.460	(0.899)	138158	5.00000	35(a)
	7 Aniline	66	3.578	3.572	(0.930)	108488	5.00000	27(aQ)
$	5 Phenol-d5	99	3.660	3.654	(0.951)	297220	5.00000	37(a)
	6 Phenol	94	3.666	3.666	(0.953)	321318	5.00000	40(a)
	8 bis(2-Chloroethyl)Ether	63	3.643	3.637	(0.947)	210957	5.00000	53(a)
	10 2-Chlorophenol	128	3.695	3.695	(0.960)	246319	5.00000	39(a)
	11 1,3-Dichlorobenzene	146	3.789	3.784	(0.985)	287304	5.00000	42(a)
*	12 1,4-Dichlorobenzene-d4	152	3.848	3.842	(1.000)	194964	40.0000	(a)
	13 1,4-Dichlorobenzene	146	3.860	3.854	(1.003)	296364	5.00000	42(a)
	15 Benzyl Alcohol	108	4.024	4.019	(1.046)	169867	5.00000	39(a)
	16 1,2-Dichlorobenzene	146	3.989	3.983	(1.037)	282800	5.00000	42(a)
	18 2,2'-oxybis(1-Chloropropane)	45	4.118	4.119	(1.070)	218084	5.00000	40(a)
	17 2-Methylphenol	108	4.177	4.166	(1.085)	228049	5.00000	39(a)
	99 Acetophenone	105	4.218	4.213	(1.096)	423597	5.00000	40(a)
	19 N-Nitroso-di-n-propylamine	70	4.248	4.236	(1.104)	217802	5.00000	39(a)
	20 4-Methylphenol	108	4.312	4.312	(1.121)	245804	5.00000	41(a)
	21 Hexachloroethane	117	4.265	4.260	(1.108)	140879	5.00000	46(a)

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9964.d
Report Date: 28-Oct-2014 12:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	22 Nitrobenzene-d5	82	4.348	4.336	(0.881)	341474	5.00000	44(a)
	23 Nitrobenzene	77	4.359	4.354	(0.883)	379232	5.00000	38(a)
	24 Isophorone	82	4.571	4.565	(0.926)	579676	5.00000	45(a)
	25 2-Nitrophenol	139	4.630	4.624	(0.938)	144079	5.00000	40(a)
	26 2,4-Dimethylphenol	107	4.735	4.730	(0.960)	307702	5.00000	40(a)
	27 bis(2-Chloroethoxy)methane	93	4.771	4.765	(0.967)	322952	5.00000	42(a)
	28 Benzoic Acid	105	4.935	4.906	(1.000)	204097	5.00000	110(aA)
	29 2,4-Dichlorophenol	162	4.871	4.871	(0.987)	232678	5.00000	41(a)
	30 1,2,4-Trichlorobenzene	180	4.888	4.888	(0.990)	273987	5.00000	42(a)
*	31 Naphthalene-d8	136	4.935	4.929	(1.000)	696554	40.0000	(a)
	32 Naphthalene	128	4.953	4.947	(1.004)	782413	5.00000	46(a)
	33 4-Chloroaniline	127	5.029	5.029	(1.019)	135265	5.00000	18(a)
	34 Hexachlorobutadiene	225	5.053	5.053	(1.024)	207871	5.00000	46(a)
	102 Caprolactam	113	5.376	5.358	(1.089)	87887	5.00000	43(a)
	35 4-Chloro-3-Methylphenol	107	5.505	5.499	(1.115)	293344	5.00000	42(aQ)
	36 2-Methylnaphthalene	142	5.529	5.523	(1.120)	568700	5.00000	32(a)
	114 1-Methylnaphthalene	142	5.605	5.599	(1.136)	493280	5.00000	41(a)
	38 Hexachlorocyclopentadiene	237	5.652	5.646	(0.887)	183870	5.00000	56(a)
	112 1,2,4,5-Tetrachlorobenzene	216	5.664	5.664	(0.888)	325709	5.00000	50(a)
	39 2,4,6-Trichlorophenol	196	5.799	5.793	(0.910)	200452	5.00000	44(a)
	40 2,4,5-Trichlorophenol	196	5.852	5.852	(0.918)	206435	5.00000	44(a)
$	41 2-Fluorobiphenyl	172	5.840	5.834	(0.916)	675097	5.00000	45(a)
	98 1,1'-Biphenyl	154	5.916	5.916	(0.928)	756655	5.00000	46(a)
	42 2-Chloronaphthalene	162	5.928	5.922	(0.930)	586043	5.00000	48(a)
	43 2-Nitroaniline	65	6.046	6.040	(0.948)	220794	5.00000	46(a)
	44 Dimethylphthalate	163	6.198	6.193	(0.972)	746302	5.00000	47(a)
	45 2,6-Dinitrotoluene	165	6.251	6.245	(0.981)	177116	5.00000	47(a)
	46 Acenaphthylene	152	6.257	6.257	(0.982)	931602	5.00000	46(a)
	47 3-Nitroaniline	138	6.392	6.386	(1.003)	102408	5.00000	26(a)
*	48 Acenaphthene-d10	164	6.375	6.375	(1.000)	459663	40.0000	(a)
	49 Acenaphthene	153	6.404	6.398	(1.005)	619172	5.00000	47(a)
	50 2,4-Dinitrophenol	184	6.486	6.481	(1.018)	87001	5.00000	52(aQ)
	51 4-Nitrophenol	109	6.627	6.627	(1.040)	146065	5.00000	51(a)
	53 2,4-Dinitrotoluene	165	6.580	6.575	(1.032)	242808	5.00000	48(a)
	52 Dibenzofuran	168	6.545	6.545	(1.027)	789918	5.00000	44(a)
	110 2,3,4,6-Tetrachlorophenol	232	6.680	6.674	(1.048)	187495	5.00000	46(a)
	54 Diethylphthalate	149	6.774	6.768	(1.063)	782558	5.00000	49(a)
	56 4-Chlorophenyl-phenylether	204	6.833	6.833	(1.072)	391809	5.00000	46(a)
	55 Fluorene	166	6.827	6.821	(1.071)	745457	5.00000	46(a)
	57 4-Nitroaniline	138	6.903	6.892	(1.083)	146964	5.00000	44(a)
	58 4,6-Dinitro-2-methylphenol	198	6.921	6.909	(0.912)	140801	5.00000	45(a)
	59 N-Nitrosodiphenylamine	169	6.950	6.939	(0.916)	629584	5.00000	46(a)
	97 Azobenzene	77	6.962	6.962	(0.918)	934603	5.00000	49(a)
$	60 2,4,6-Tribromophenol	330	7.033	7.027	(0.927)	106811	5.00000	49(a)
	61 4-Bromophenyl-phenylether	248	7.227	7.227	(0.953)	239139	5.00000	48(a)
	62 Hexachlorobenzene	284	7.268	7.262	(0.958)	246684	5.00000	51(a)
	100 Atrazine	200	7.409	7.403	(0.977)	200769	5.00000	40(a)
	63 Pentachlorophenol	266	7.462	7.456	(0.984)	103525	5.00000	56(a)
*	64 Phenanthrene-d10	188	7.585	7.579	(1.000)	961192	40.0000	(a)
	65 Phenanthrene	178	7.603	7.597	(1.002)	1122223	5.00000	48(a)
	66 Anthracene	178	7.644	7.638	(1.008)	1147136	5.00000	48(a)
	67 Carbazole	167	7.802	7.797	(1.029)	957116	5.00000	46(a)
	68 Di-n-butylphthalate	149	8.096	8.090	(1.067)	1318820	5.00000	49(a)
	69 Fluoranthene	202	8.566	8.566	(1.129)	1394225	5.00000	48(a)

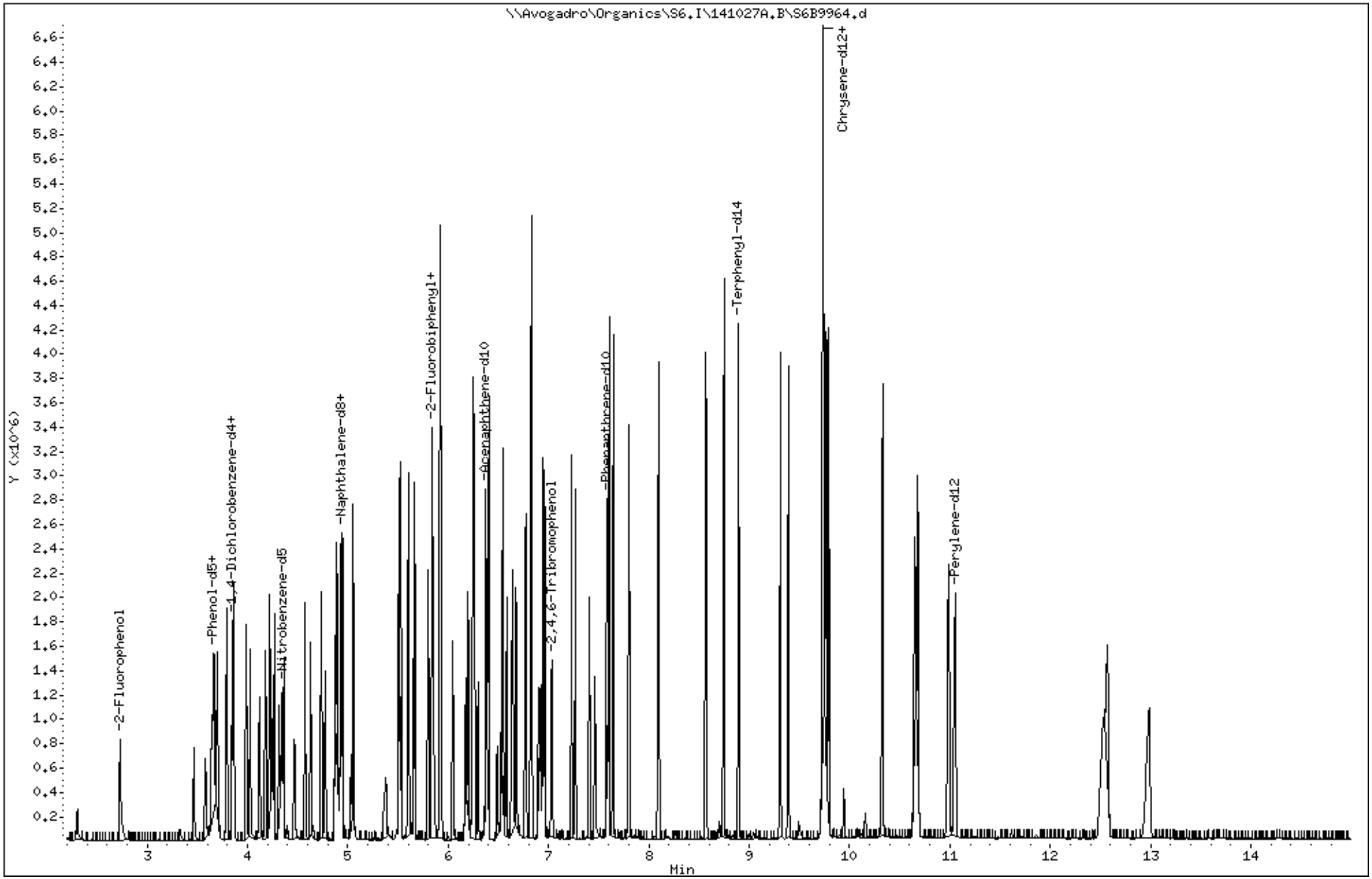
Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9964.d
Report Date: 28-Oct-2014 12:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
70	Benzidine	184	8.701	8.701	(0.893)	47294	5.00000	5(a)
71	Pyrene	202	8.748	8.743	(0.898)	1420387	5.00000	49(a)
$ 72	Terphenyl-d14	244	8.895	8.889	(0.913)	945149	5.00000	48(a)
73	Butylbenzylphthalate	149	9.312	9.307	(0.955)	645646	5.00000	51(a)
74	3,3'-Dichlorobenzidine	252	9.735	9.736	(0.999)	386753	5.00000	38(a)
75	Benzo(a)anthracene	228	9.735	9.736	(0.999)	1526830	5.00000	49(a)
78	bis(2-Ethylhexyl)phthalate	149	9.794	9.794	(1.005)	930074	5.00000	49(a)
* 76	Chrysene-d12	240	9.747	9.747	(1.000)	1098292	40.0000	(a)
77	Chrysene	228	9.771	9.765	(1.002)	1351357	5.00000	50(a)
79	Di-n-octylphthalate	149	10.329	10.335	(0.935)	1553677	5.00000	54(a)
80	Benzo(b)fluoranthene	252	10.652	10.658	(0.964)	1263194	5.00000	48(a)
81	Benzo(k)fluoranthene	252	10.681	10.682	(0.967)	1415812	5.00000	57(a)
82	Benzo(a)pyrene	252	10.993	10.987	(0.995)	1188686	5.00000	51(a)
* 83	Perylene-d12	264	11.052	11.058	(1.000)	873424	40.0000	(a)
84	Indeno(1,2,3-cd)pyrene	276	12.526	12.521	(1.133)	1135449	5.00000	49(a)
85	Dibenzo(a,h)anthracene	278	12.573	12.568	(1.138)	1082139	5.00000	50(a)
86	Benzo(g,h,i)perylene	276	12.985	12.979	(1.175)	1071965	5.00000	50(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\S6.I\141027A.B\S6B9964.d
Date : 27-OCT-2014 16:53
Client ID: LCSD-79704
Instrument: S6.i
Sample Info: LCSD-79704,LCSD-79704,79704
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



EPA SAMPLE NO.
LCSD-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-79722

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9984.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2500	
111-44-4	Bis(2-chloroethyl)ether	2900	
95-57-8	2-Chlorophenol	2500	
95-48-7	2-Methylphenol	2600	
108-60-1	2,2´-oxybis(1-Chloropropane)	2700	
106-44-5	4-Methylphenol	2700	
621-64-7	N-Nitroso-di-n-propylamine	800	
67-72-1	Hexachloroethane	3200	
98-95-3	Nitrobenzene	2600	
78-59-1	Isophorone	3000	
88-75-5	2-Nitrophenol	2700	
105-67-9	2,4-Dimethylphenol	2600	
120-83-2	2,4-Dichlorophenol	2700	
91-20-3	Naphthalene	3200	
106-47-8	4-Chloroaniline	1500	
111-91-1	Bis(2-chloroethoxy)methane	2800	
87-68-3	Hexachlorobutadiene	3200	
59-50-7	4-Chloro-3-methylphenol	2600	
91-57-6	2-Methylnaphthalene	2100	
77-47-4	Hexachlorocyclopentadiene	3600	
88-06-2	2,4,6-Trichlorophenol	2900	
95-95-4	2,4,5-Trichlorophenol	3000	
91-58-7	2-Chloronaphthalene	3200	
88-74-4	2-Nitroaniline	3000	
131-11-3	Dimethylphthalate	3200	
208-96-8	Acenaphthylene	3100	
606-20-2	2,6-Dinitrotoluene	3000	
99-09-2	3-Nitroaniline	1900	
83-32-9	Acenaphthene	3100	
51-28-5	2,4-Dinitrophenol	2300	
100-02-7	4-Nitrophenol	2900	
132-64-9	Dibenzofuran	2900	
121-14-2	2,4-Dinitrotoluene	3000	
84-66-2	Diethylphthalate	3100	
7005-72-3	4-Chlorophenyl-phenylether	3100	
86-73-7	Fluorene	3100	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-79722

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N1943 Mod. Ref No.: SDG No.: SN1943

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-79722

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B9984.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/28/2014

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/28/2014

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	2600	
534-52-1	4,6-Dinitro-2-methylphenol	2500	
86-30-6	N-Nitrosodiphenylamine	3000	
101-55-3	4-Bromophenyl-phenylether	3200	
118-74-1	Hexachlorobenzene	3300	
87-86-5	Pentachlorophenol	3500	
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	3000	
86-74-8	Carbazole	2900	
84-74-2	Di-n-butylphthalate	3200	
206-44-0	Fluoranthene	3000	
129-00-0	Pyrene	3100	
85-68-7	Butylbenzylphthalate	3200	
91-94-1	3,3´-Dichlorobenzidine	2300	
56-55-3	Benzo(a)anthracene	3000	
218-01-9	Chrysene	3100	
117-81-7	Bis(2-ethylhexyl)phthalate	3100	
117-84-0	Di-n-octylphthalate	3400	
205-99-2	Benzo(b)fluoranthene	3300	
207-08-9	Benzo(k)fluoranthene	3100	
50-32-8	Benzo(a)pyrene	3100	
193-39-5	Indeno(1,2,3-cd)pyrene	3600	
53-70-3	Dibenzo(a,h)anthracene	3200	
191-24-2	Benzo(g,h,i)perylene	3300	
92-52-4	1,1´-Biphenyl	3100	
95-94-3	1,2,4,5-Tetrachlorobenzene	3400	
98-86-2	Acetophenone	2400	
1912-24-9	Atrazine	2700	
100-52-7	Benzaldehyde	700	
105-60-2	Caprolactam	2700	

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9984.d
Report Date: 28-Oct-2014 15:58

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S6.I\141028.B\S6B9984.d
Lab Smp Id: LCSD-79722 Client Smp ID: LCSD-79722
Inj Date : 28-OCT-2014 12:30
Operator : CLM SRC: LIMS Inst ID: S6.i
Smp Info : LCSD-79722,LCSD-79722,79722
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\S6.I\141028.B\S6_8270C_N.m
Meth Date : 28-Oct-2014 15:11 cmosher Quant Type: ISTD
Cal Date : 26-SEP-2014 18:47 Cal File: S6B9504.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1	N-Nitrosodimethylamine	74	1.375	1.345	(0.357)	140905	5.00000	41
2	Pyridine	79	1.392	1.369	(0.362)	197063	5.00000	32
$ 3	2-Fluorophenol	112	2.732	2.720	(0.710)	230844	5.00000	41
101	Benzaldehyde	77	3.466	3.460	(0.901)	39903	5.00000	10
7	Aniline	66	3.578	3.572	(0.930)	115400	5.00000	30
$ 5	Phenol-d5	99	3.660	3.654	(0.951)	287511	5.00000	37
6	Phenol	94	3.672	3.666	(0.954)	290918	5.00000	38
8	bis(2-Chloroethyl)Ether	63	3.643	3.637	(0.947)	167253	5.00000	44(Q)
10	2-Chlorophenol	128	3.701	3.695	(0.962)	232203	5.00000	38
11	1,3-Dichlorobenzene	146	3.790	3.784	(0.985)	288223	5.00000	44
* 12	1,4-Dichlorobenzene-d4	152	3.848	3.842	(1.000)	188480	40.0000	
13	1,4-Dichlorobenzene	146	3.866	3.854	(1.005)	298324	5.00000	44
15	Benzyl Alcohol	108	4.025	4.019	(1.046)	162333	5.00000	39
16	1,2-Dichlorobenzene	146	3.989	3.983	(1.037)	278354	5.00000	43
18	2,2'-oxybis(1-Chloropropane)	45	4.119	4.119	(1.070)	212614	5.00000	40
17	2-Methylphenol	108	4.177	4.171	(1.085)	219569	5.00000	38
99	Acetophenone	105	4.219	4.213	(1.096)	374394	5.00000	37
19	N-Nitroso-di-n-propylamine	70	4.230	4.236	(1.099)	64666	5.00000	12(Q)
20	4-Methylphenol	108	4.313	4.312	(1.121)	232390	5.00000	40

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9984.d
Report Date: 28-Oct-2014 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	21 Hexachloroethane	117	4.266	4.265	(1.108)	140829	5.00000	48
$	22 Nitrobenzene-d5	82	4.348	4.342	(0.881)	336470	5.00000	46
	23 Nitrobenzene	77	4.365	4.354	(0.885)	358454	5.00000	39
	24 Isophorone	82	4.571	4.565	(0.926)	546119	5.00000	45
	25 2-Nitrophenol	139	4.630	4.624	(0.938)	136053	5.00000	40
	26 2,4-Dimethylphenol	107	4.736	4.730	(0.960)	275678	5.00000	39
	27 bis(2-Chloroethoxy)methane	93	4.771	4.765	(0.967)	300184	5.00000	42
	28 Benzoic Acid	105	4.935	4.912	(1.000)	164539	5.00000	94(AQ)
	29 2,4-Dichlorophenol	162	4.871	4.871	(0.987)	212653	5.00000	40
	30 1,2,4-Trichlorobenzene	180	4.894	4.888	(0.992)	261384	5.00000	44
*	31 Naphthalene-d8	136	4.935	4.929	(1.000)	644515	40.0000	
	32 Naphthalene	128	4.953	4.947	(1.004)	745610	5.00000	47
	115 alpha-Terpineol	59	5.053	4.982	(1.024)	7776	5.00000	2(aQ)
	33 4-Chloroaniline	127	5.029	5.029	(1.019)	155152	5.00000	23
	34 Hexachlorobutadiene	225	5.053	5.053	(1.024)	202738	5.00000	48
	102 Caprolactam	113	5.382	5.364	(1.090)	76835	5.00000	41
	35 4-Chloro-3-Methylphenol	107	5.505	5.499	(1.115)	255546	5.00000	40(Q)
	36 2-Methylnaphthalene	142	5.529	5.523	(1.120)	520534	5.00000	31
	114 1-Methylnaphthalene	142	5.605	5.605	(1.136)	455160	5.00000	41
	38 Hexachlorocyclopentadiene	237	5.652	5.652	(0.887)	160932	5.00000	54
	112 1,2,4,5-Tetrachlorobenzene	216	5.664	5.664	(0.888)	296888	5.00000	51
	39 2,4,6-Trichlorophenol	196	5.799	5.793	(0.910)	180722	5.00000	44
	40 2,4,5-Trichlorophenol	196	5.852	5.852	(0.918)	188945	5.00000	44
$	41 2-Fluorobiphenyl	172	5.840	5.834	(0.916)	626178	5.00000	47
	98 1,1'-Biphenyl	154	5.917	5.916	(0.928)	692209	5.00000	47
	42 2-Chloronaphthalene	162	5.928	5.922	(0.930)	526426	5.00000	47
	43 2-Nitroaniline	65	6.046	6.040	(0.948)	195922	5.00000	45
	44 Dimethylphthalate	163	6.199	6.193	(0.972)	671534	5.00000	47
	45 2,6-Dinitrotoluene	165	6.251	6.245	(0.981)	153749	5.00000	45
	46 Acenaphthylene	152	6.257	6.257	(0.982)	840345	5.00000	46
	47 3-Nitroaniline	138	6.392	6.386	(1.003)	101888	5.00000	29
*	48 Acenaphthene-d10	164	6.375	6.375	(1.000)	414013	40.0000	
	49 Acenaphthene	153	6.404	6.398	(1.005)	555062	5.00000	46
	50 2,4-Dinitrophenol	184	6.486	6.480	(1.018)	50813	5.00000	34(Q)
	51 4-Nitrophenol	109	6.627	6.627	(1.040)	114124	5.00000	44
	53 2,4-Dinitrotoluene	165	6.580	6.575	(1.032)	204618	5.00000	44
	52 Dibenzofuran	168	6.545	6.545	(1.027)	705153	5.00000	44
	110 2,3,4,6-Tetrachlorophenol	232	6.680	6.674	(1.048)	155481	5.00000	43
	54 Diethylphthalate	149	6.774	6.768	(1.063)	659341	5.00000	46
	56 4-Chlorophenyl-phenylether	204	6.833	6.833	(1.072)	356350	5.00000	46
	55 Fluorene	166	6.827	6.821	(1.071)	672557	5.00000	46
	57 4-Nitroaniline	138	6.904	6.892	(1.083)	116862	5.00000	39
	58 4,6-Dinitro-2-methylphenol	198	6.915	6.915	(0.912)	103186	5.00000	38
	59 N-Nitrosodiphenylamine	169	6.945	6.945	(0.916)	538734	5.00000	45
	97 Azobenzene	77	6.968	6.962	(0.919)	814695	5.00000	49
$	60 2,4,6-Tribromophenol	330	7.033	7.027	(0.927)	88639	5.00000	47
	61 4-Bromophenyl-phenylether	248	7.227	7.227	(0.953)	209930	5.00000	48
	62 Hexachlorobenzene	284	7.268	7.268	(0.958)	210799	5.00000	50
	100 Atrazine	200	7.409	7.403	(0.977)	176419	5.00000	40
	111 Pentachloronitrobenzene	237	7.462	7.444	(0.984)	4553	5.00000	2(aQ)
	63 Pentachlorophenol	266	7.462	7.462	(0.984)	83910	5.00000	52
*	64 Phenanthrene-d10	188	7.585	7.585	(1.000)	838625	40.0000	
	65 Phenanthrene	178	7.603	7.603	(1.002)	954120	5.00000	47
	66 Anthracene	178	7.644	7.644	(1.008)	948350	5.00000	46

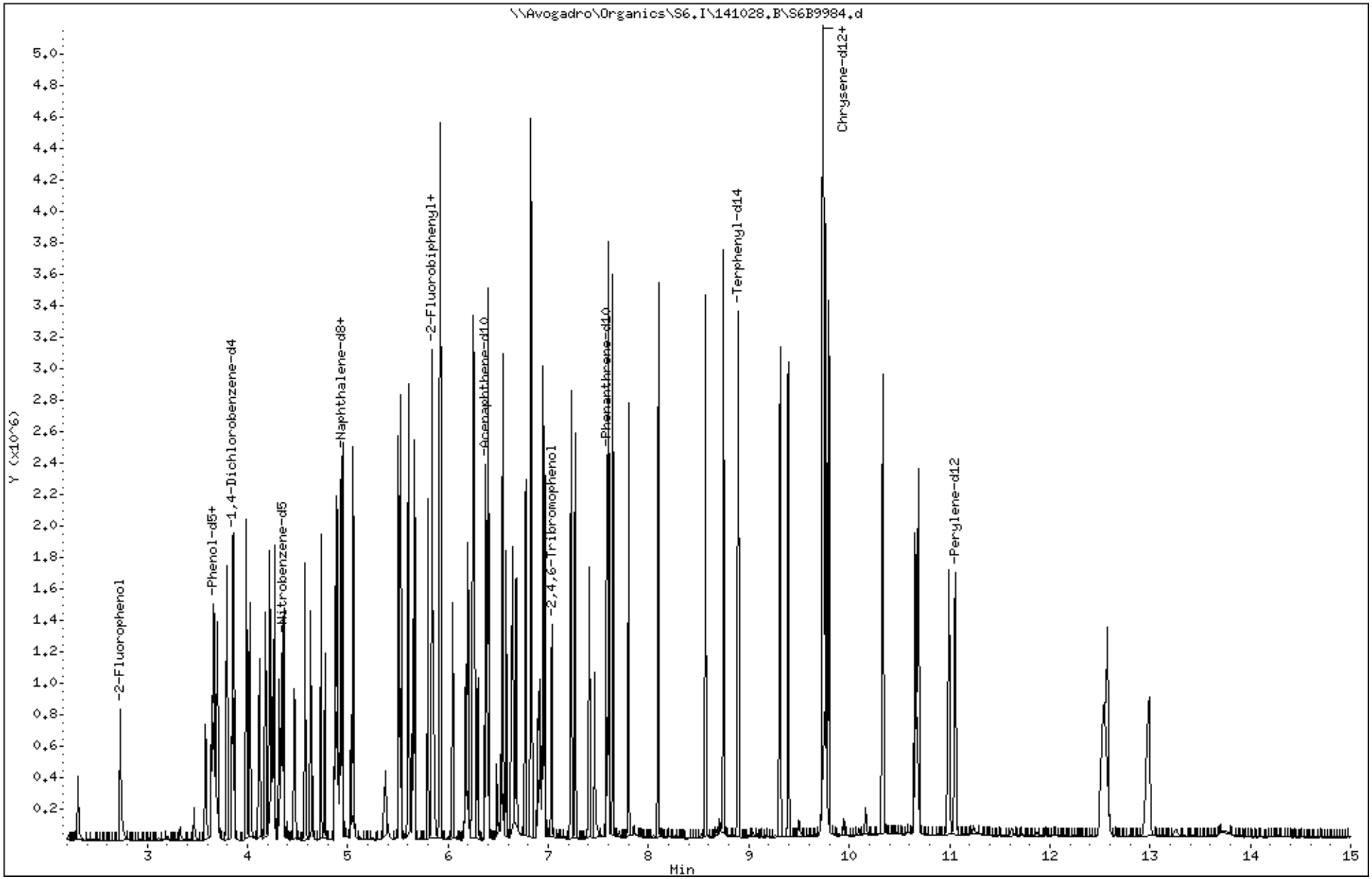
Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9984.d
Report Date: 28-Oct-2014 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67	Carbazole	167	7.803	7.802	(1.029)	790789	5.00000	44
68	Di-n-butylphthalate	149	8.096	8.096	(1.067)	1107356	5.00000	47
69	Fluoranthene	202	8.566	8.566	(1.129)	1117974	5.00000	44
70	Benzidine	184	8.702	8.701	(0.893)	41511	5.00000	5(a)
71	Pyrene	202	8.749	8.748	(0.898)	1126781	5.00000	47
$ 72	Terphenyl-d14	244	8.895	8.895	(0.913)	768290	5.00000	48
73	Butylbenzylphthalate	149	9.313	9.313	(0.955)	502097	5.00000	48
74	3,3'-Dichlorobenzidine	252	9.736	9.747	(0.999)	286188	5.00000	35
75	Benzo(a)anthracene	228	9.736	9.747	(0.999)	1137641	5.00000	44
78	bis(2-Ethylhexyl)phthalate	149	9.794	9.806	(1.005)	733364	5.00000	47
* 76	Chrysene-d12	240	9.747	9.759	(1.000)	901395	40.0000	
77	Chrysene	228	9.771	9.777	(1.002)	1022038	5.00000	46
79	Di-n-octylphthalate	149	10.335	10.352	(0.935)	1216888	5.00000	51
80	Benzo(b)fluoranthene	252	10.658	10.676	(0.964)	1074036	5.00000	49(H)
81	Benzo(k)fluoranthene	252	10.688	10.705	(0.967)	956423	5.00000	46
82	Benzo(a)pyrene	252	10.999	11.011	(0.995)	920411	5.00000	47
* 83	Perylene-d12	264	11.058	11.081	(1.000)	728973	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	12.532	12.550	(1.133)	1040401	5.00000	54
85	Dibenzo(a,h)anthracene	278	12.579	12.591	(1.138)	869814	5.00000	48
86	Benzo(g,h,i)perylene	276	12.991	13.002	(1.175)	873586	5.00000	49

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S6.I\141028.B\S6B9984.d
Date : 28-OCT-2014 12:30
Client ID: LCSD-79722
Instrument: S6.i
Sample Info: LCSD-79722,LCSD-79722,79722
Volume Injected (uL): 1.0
Operator: CLM SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Tuesday, October 28, 2014 15:40

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

PREP BATCH REPORT

Prep Start Date: **10/27/2014 08:01**
Prep End Date: **10/27/2014 14:00**
Prep Batch ID: **79704**
Prep Code: **BNA_S_PR**
Technician: **Devin M Pierel**
Prep Type: **SONC/SW3550B**
Prep Factor Units: **mL / g**

QC Matrix: NA2SO4
QC Matrix Lot: **141513**
Solvent (1): MECL2
Solvent (1) Lot: **DL501**
Solvent (3): N/A
Solvent (3) Lot: N/A
Misc (2): N/A
Misc (2) Lot: N/A
Clean Up (1): N/A
Clean Up (1) Lot: N/A
Clean Up (3): N/A
Clean Up (1) Lot: N/A

Filter?: FILTER
Filter Lot: **FC010958**
Solvent (2): ACE
Solvent (2) Lot: **143327**
Misc (1): N/A
Misc (1) Lot: N/A
Misc (3): N/A
Misc (3) Lot: N/A
Clean Up (2): N/A
Clean Up (2) Lot: N/A
Clean Up (4): N/A
Clean Up (4) Lot: N/A

Balance ID: TL1
Start Time: N/A
End Time: N/A
Cycles/Hour 0
Sonicator Tuned?Yes
BalanceID: TL1
Bath Temp1 (C): N/A
Corr Fac: 0.0
Therm ID1: MT-88
Corrected Temp: #Error

Lab Sample ID	Client Samp ID	M	Initial (mL/g)	Final (mL)	Surrogate Spike ID	Surr (mL)	LCS/D MS/D Spike ID	Spike (mL)	A* Init	W* Init	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	pH <2	SONC / CNCNT
MB-79704	BatchQC		15	1	OSW140918B	1			DMP	AMC			10/27/14	CLM	R7		☐	☐	Sonicator 1 / Turbo Vap 1
LCS-79704	BatchQC		15	1	OSW140918B	1	OSW140918A	1	DMP	AMC			10/27/14	CLM	R7		☐	☐	Sonicator 1 / Turbo Vap 1
LCSD-79704	BatchQC		15	1	OSW140918B	1	OSW140918A	1	DMP	AMC			10/27/14	CLM	R7		☐	☐	Sonicator 2 / Turbo Vap 1
N1943-02A	(211) TR-2 (11)	S	15.2	1	OSW140918B	1			DMP	AMC	10/28/14	01	10/27/14	CLM	R7		☐	☐	Sonicator 2 / Turbo Vap 1
N1943-03A	(211) TR-3 (11)	S	15.2	1	OSW140918B	1			DMP	AMC	10/28/14	01	10/27/14	CLM	R7		☐	☐	Sonicator 3 / Turbo Vap 1
N1943-04A	(211) TR-4 (11)	S	15.1	1	OSW140918B	1			DMP	AMC	10/28/14	01	10/27/14	CLM	R7		☐	☐	Sonicator 3 / Turbo Vap 1
N1943-05A	(211) TR-5 (11)	S	15	1	OSW140918B	1			DMP	AMC	10/28/14	01	10/27/14	CLM	R7		☐	☐	Sonicator 5 / Turbo Vap 1
N1943-06A	(211) TR-6 (14)	S	15.2	1	OSW140918B	1			DMP	AMC	10/28/14	01	10/27/14	CLM	R7		☐	☐	Sonicator 5 / Turbo Vap 1
N1943-01A	(211) TR-1 (13)	S	15.1	1	OSW140918B	1			DMP	AMC	10/28/14	01	10/27/14	CLM	R7		☐	☐	N/A / Turbo Vap 1

Catherine L Mosher 10/27/2014
Analyst Reviewed Date

Devin M Pierel 10/28/2014
Manager Reviewed Date

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

DMP 10/28/14

Logbook ID: 50.0147-10/14

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

PREP BATCH REPORT

Prep Start Date: **10/28/2014 07:38**
Prep End Date: **10/28/2014 13:00** Prep Code: **BNA_S_PR** Prep Type: **SONC/SW3550B** Prep Factor Units: **mL / g**
Prep Batch ID: **79722** Technician: **Devin M Pierel**

QC Matrix: NA2SO4 | Solvent (1): MECL2 | Solvent (3): N/A | Misc (2): N/A | Clean Up (1): N/A | Clean Up (3): N/A
QC Matrix Lot: 141513 | Solvent (1) Lot: DL501 | Solvent (3) Lot: N/A | Misc (2) Lot: N/A | Clean Up (1) Lot: N/A | Clean Up (1) Lot: N/A

Filter?: FILTER | Solvent (2): ACE | Misc (1): N/A | Misc (3): N/A | Clean Up (2): N/A | Clean Up (4): N/A
Filter Lot: FC010958 | Solvent (2) Lot: 143327 | Misc (1) Lot: N/A | Misc (3) Lot: N/A | Clean Up (2) Lot: N/A | Clean Up (4) Lot: N/A

Balance ID: TL1 | Start Time: N/A | End Time: N/A | Cycles/Hour 0 | Sonicator Tuned?Yes | BalanceID: TL1 | Bath Temp1 (C): 87.0 | Corr Fac: 0.0 | Therm ID1: MT-88 | Corrected Temp: 87.0

Lab Sample ID	Client Samp ID	M	Initial (mL/g)	Final (mL)	Surrogate Spike ID	Surr (mL)	LCS/D MS/D Spike ID	Spike (mL)	A* Init	W* Init	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	pH <2	SONC / CNCNT
MB-79722	BatchQC		15	1	OSW140918B	1			DMP	AMC			10/28/14	AMC	R7		☐	☐	N/A / Turbo Vap 1
LCS-79722	BatchQC		15	1	OSW140918B	1	OSW140918A	1	DMP	AMC			10/28/14	AMC	R7		☐	☐	N/A / Turbo Vap 1
LCSD-79722	BatchQC		15	1	OSW140918B	1	OSW140918A	1	DMP	AMC			10/28/14	AMC	R7		☐	☐	N/A / Turbo Vap 1
N1943-01A	(211) TR-1 (13)	S	15.4	1	OSW140918B	1			DMP	AMC	10/28/14	01	10/28/14	AMC	R7		☐	☐	N/A / Turbo Vap 1

Analisa M Caruso 10/28/2014
Analyst Reviewed Date

Devin M Pierel 10/28/2014
Manager Reviewed Date

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

DMP 10/28/14

Logbook ID: 50.0147-10/14

Percent Moisture and Percent Solids Report

Lab Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
N1943-01A	(211) TR-1 (13)	10/17/2014	6.114	93.886	Yes
N1943-02A	(211) TR-2 (11)	10/17/2014	8.172	91.828	Yes
N1943-03A	(211) TR-3 (11)	10/17/2014	6.555	93.445	Yes
N1943-04A	(211) TR-4 (11)	10/17/2014	6.769	93.231	Yes
N1943-05A	(211) TR-5 (11)	10/17/2014	8.877	91.123	Yes
N1943-06A	(211) TR-6 (14)	10/17/2014	6.995	93.005	Yes

N1943

Logbook ID: 70.0195-05/14

Instrument S6
Injection Log

Spectrum Analytical, Inc. RI Div. SEMIVOLATILES LABORATORY

Spectrum Analytical, Inc., RI Division S6 Injection Log
Semivolatiles Laboratory

METHOD: 8270
ICAL DATE: 9/26/14

ANALYST: TM
EMV: 2141

BATCH: 140926A.B

Start: 26-SEP-14 14:38
End: 26-SEP-14 20:43

Tune: SI1402194
L1: SW1408064
L2: SW1408068
L3: SW1408060
L4: SW1408060
L5: SW1408066
L6: SW1408066

Internal Standard: SI1404164
Comments:

ICV: SW1402066

Inlet Maintenance By: TM
Liner : new
Column : Cut
Inlet Seal: new
Septum : new

Reviewed By: 9/29/14

Manual Integration: TM 9/29/14

MI Review: 9/29/14

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	INTERNAL STANDARDS DCB	NPT	ANT	PHN	CRY	PRY	SURROGATES BN NBZ	BN FBP	BN TPH	ACID PHL	ACID 2FP	ACID TBP	OLM DCB	OLM 2CP	DILN	FLG	COMMENTS
S6B9493	14:38	DFTPP6L	DFTPP6L		AQ															1		OK Tune
S6B9499	16:51	SSTD0256L	SSTD0256L		AQ	100	100	100	100	100	100									1		MI_50
S6B9500	17:14	SSTD0806L	SSTD0806L		AQ	119	117	112	104	91	77									1		MI_109_23_50_84 * 8270 ICAL
S6B9501	17:37	SSTD0056L	SSTD0056L		AQ	111	107	107	108	107	107									1		MI_143_50
S6B9502	18:01	SSTD0106L	SSTD0106L		AQ	113	111	111	110	107	108									1		
S6B9503	18:24	SSTD0406L	SSTD0406L		AQ	101	105	105	103	100	97									1		MI_23
S6B9504	18:47	SSTD0606L	SSTD0606L		AQ	118	121	118	113	104	91									1		MI_23_28_50
S6B9505	19:10	SICV0256L	SICV0256L		AQ	101	99	98	100	97	97	54	55	54	54	54	52			1		MI_2_28_50 OK ICV
S6B9506	19:33	MB-79160	MB-79160	79160	AQ	76	74	73	71	72	72	92	96	104	18	32	92			1		OK
S6B9507	19:56	LCS-79160	LCS-79160	79160	AQ	87	85	85	83	83	83	82	85	89	17	23	82			1		MI_50
S6B9508	20:20	LCSD-79160	LCSD-79160	79160	AQ	92	89	88	87	85	82	80	86	92	19	28	85			1		MI_50
S6B9509	20:43	N1708-01B	ET01 GRAB 9-16-	79160	AQ	78	74	73	72	68	67	104	107	79	15	27	102			1		OK 2378 TCDF Not detected

* - Internal Standard or Surrogate outside of control limits
E - One or more target compounds are above the calibration range
T - Sample was injected outside of the 12 hour sequence
R - One or more spike compounds are outside of control limits
D - Surrogates are diluted

* Benzaldehyde
Benzoic Acid
Hexachlorocyclopentadiene
Benzidine
PCP

all >15%
Do not pass Linear

Daily Maintenance	
Gold Seal	
Liner	
Clipped Column	
Ferrule	

Comments:

TM 9/29/14

Page 324 of 435

N1943

Logbook ID: 70.0195-09/14

Instrument S6
Injection Log

Spectrum Analytical, Inc. RI Div. SEMIVOLATILES LABORATORY

Spectrum Analytical, Inc. RI Division S6 Injection Log
Semivolatiles Laboratory

METHOD: 8270
ICAL DATE: 9/26/14

ANALYST: CM
EMV: 2141

BATCH: 141027A.B

Start: 27-OCT-14 15:07
End: 27-OCT-14 20:15

TUNE SI1409173
L3: SW140806C

Inlet Maintenance By: CM
Liner : New
Column : Clipped
Inlet Seal: New
Septum : New

Internal Standard:
Comments:

Reviewed By: CM 10/28/14

Manual Integration: _____

MI Review: CM 10/27/14

ICV: _____

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	INTERNAL STANDARDS DCB	NPT	ANT	PHN	CRY	PRY	SURROGATES BN NBZ	BN FBP	BN TPH	ACID PHL	ACID 2FP	ACID TBP	OLM DCB	OLM 2CP	DILN	FLG	COMMENTS
S6B9960	15:07	DFTPP6N	DFTPP6N		AQ															1		OK
S6B9961	15:27	SSTD0256N	SSTD0256N		AQ	100	100	100	100	100	100									1		OK MI_143_2_36
S6B9962	15:58	MB-79704	MB-79704	79704	SL	113	115	113	114	101	99	91	93	106	82	90	98			1		OK
S6B9963	16:33	LCS-79704	LCS-79704	79704	SL	116	112	109	102	91	73	96	96	100	76	88	103			1	ER	OK
S6B9964	16:53	LCSD-79704	LCSD-79704	79704	SL	118	118	116	110	98	87	87	91	96	74	82	98			1	ER	OK
S6B9965	17:13	N1822-04BMS	MW03-15I-NWG-09	79360	AQ	110	114	115	114	110	106	93	98	78	18	25	93			1	R	OK
S6B9966	17:34	N1822-04BMSD	MW03-15I-NWG-09	79360	AQ	105	111	113	111	109	105	101	103	76	21	30	98			1	R	OK
S6B9967	17:54	N1822-11B	MW03-17S-NWG-09	79360	AQ	107	109	112	108	103	101	100	100	79	14	26	104			1		OK
S6B9968	18:14	N1822-25C	MW03-17I-NWG-10	79360	AQ	108	113	117	117	112	113	97	95	89	14	29	99			1		OK
S6B9969	18:35	N1943-01A	(211) TR-1 (13)	79704	SL	122	115	106	99	76	71	0*	0*	0*	0*	0*	0*			1		RT
S6B9970	18:55	N1943-02A	(211) TR-2 (11)	79704	SL	120	115	108	102	80	77	80	84	92	64	72	89			1		OK
S6B9971	19:15	N1943-03A	(211) TR-3 (11)	79704	SL	113	106	99	93	75	73	83	85	92	66	76	87			1		OK
S6B9972	19:35	N1943-04A	(211) TR-4 (11)	79704	SL	114	109	104	98	83	79	80	84	92	67	72	91			1		OK
S6B9973	19:55	N1943-05A	(211) TR-5 (11)	79704	SL	116	111	106	99	81	75	81	85	93	66	73	88			1		OK
S6B9974	20:15	N1943-06A	(211) TR-6 (14)	79704	SL	111	107	102	97	80	77	86	88	95	71	76	90			1		OK

* - Internal Standard or Surrogate outside of control limits
E - One or more target compounds are above the calibration range
T - Sample was injected outside of the 12 hour sequence
R - One or more spike compounds are outside of control limits
D - Surrogates are diluted

CM 10/28/14

Spectrum Analytical, Inc. RI Division S6 Injection Log
Semivolatiles Laboratory

METHOD: 8270 ANALYST: CMM BATCH: 141028.B Start: 28-OCT-14 10:01
ICAL DATE: _____ EMV: _____ End: 28-OCT-14 12:50

TUNE SI140917B
L3: SW040806C

Internal Standard: SI140416A
Comments:

Inlet Maintenance By:
Liner : NA
Column :
Inlet Seal:
Septum :

Reviewed By: C 10/28/14 Manual Integration: NA MI Review: NA ICV: _____

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	INTERNAL STANDARDS DCB	NPT	ANT	PHN	CRY	PRY	SURROGATES BN NBZ	FBP	TPH	ACID PHL	2FP	TBP	OLM DCB	2CP	DILN	FLG	COMMENTS
S6B9980	10:01	DFTPP60	DFTPP60		AQ															1		ok
S6B9981	10:22	SSTD02560	SSTD02560		AQ	100	100	100	100	100	100									1		ok
S6B9982	11:49	MB-79722	MB-79722	79722	SL	115	108	97	98	83	79	95	97	106	76	85	94			1		ok
S6B9983	12:10	LCS-79722	LCS-79722	79722	SL	118	114	106	109	103	94	94	96	97	80	86	101			1	R	ok
S6B9984	12:30	LCSD-79722	LCSD-79722	79722	SL	121	113	101	96	84	77	93	93	95	74	82	93			1	R	ok
S6B9985	12:50	N1943-01A	(211) TR-1 (13)	79722	SL	113	105	87	89	74	73	96	101*	102	74	82	99			1		ok

* - Internal Standard or Surrogate outside of control limits
E - One or more target compounds are above the calibration range
T - Sample was injected outside of the 12 hour sequence
R - One or more spike compounds are outside of control limits
D - Surrogates are diluted

10/28/14

* Metals *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Day Environmental, Inc

Project: 211 Franklin Street

Laboratory Workorder / SDG #: N1943

SW846 6010C, SW846 7471B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: SW846 6010C, SW846 7471B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B
Soil Samples were prepared following procedures in laboratory test code: SW7471B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: (211) TR-6 (14) (N1943-06BMS).

Percent recoveries were within the QC limits with the following exceptions:

(211) TR-6 (14) (N1943-06BMS), recovery is above criteria for Zinc at 183% with criteria of (80-120), recovery is below criteria for Antimony at 66% with criteria of (80-120) and Arsenic at 0% with criteria of (80-120).

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on sample: (211) TR-6 (14) (N1943-06BPDS).

(211) TR-6 (14) (N1943-06BPDS) for Antimony, Arsenic and Zinc due to recoveries of these elements outside of QC limits in the matrix spike.

E. Duplicate sample:

Duplicate analyses were performed on sample: (211) TR-6 (14) (N1943-06BDUP).

Relative percent differences were within the QC limits with the following exceptions:

(211) TR-6 (14) (N1943-06BDUP), Duplicate analysis not within control limit for Arsenic, Barium, Cadmium, Chromium, Copper, Manganese and Zinc.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on sample: (211) TR-6 (14) (N1943-06BSD).

Percent differences were within the QC limits with the exception of the following:

(211) TR-6 (14) (N1943-06BSD), Serial Dilution analysis not within control limit for Cobalt, Nickel and Zinc.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 10/29/2014

Data Flag/Qualifiers (Page 1 of 2):

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as an aldol condensation by-product.

Data Flag/Qualifiers (Page 2 of 2):

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

L NYSDEC qualifier: Result is biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

U.S.EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

SOW No.: SW846

EPA Sample No.	Lab Sample ID
(211) TR-1 (13)	N1943-01
(211) TR-2 (11)	N1943-02
(211) TR-3 (11)	N1943-03
(211) TR-4 (11)	N1943-04
(211) TR-5 (11)	N1943-05
(211) TR-6 (14)	N1943-06
(211) TR-6 (14)D	N1943-06DUP
(211) TR-6 (14)S	N1943-06MS

Were ICP interelement corrections applied?	Yes/No	Yes
Were background corrections applied?	Yes/No	Yes
If yes-were raw data generated before application of background corrections?	Yes/No	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Sharyn B Lawler Name: Sharyn B. Lawler

Date: 10/29/14 Title: QAD

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

(211) TR-1 (13)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Lab Sample ID: N1943-01

Level (low/med): MED Date Received: 10/16/2014

% Solids: 93.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5530			P
7440-36-0	Antimony	0.40	U	N	P
7440-38-2	Arsenic	11.9		N*	P
7440-39-3	Barium	47.6		*	P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.30		*	P
7440-70-2	Calcium	32800			P
7440-47-3	Chromium	6.7		*	P
7440-48-4	Cobalt	4.8		E	P
7440-50-8	Copper	40.2		*	P
7439-89-6	Iron	13700			P
7439-92-1	Lead	13.3			P
7439-95-4	Magnesium	2940			P
7439-96-5	Manganese	820		*	P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	13.9		E	P
7440-09-7	Potassium	437			P
7782-49-2	Selenium	1.4	B		P
7440-22-4	Silver	0.067	U		P
7440-23-5	Sodium	33.2	B		P
7440-28-0	Thallium	0.33	B		P
7440-62-2	Vanadium	10.3			P
7440-66-6	Zinc	78.3		N*E	P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

(211) TR-2 (11)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Lab Sample ID: N1943-02

Level (low/med): MED Date Received: 10/16/2014

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6800			P
7440-36-0	Antimony	0.38	U	N	P
7440-38-2	Arsenic	21.9		N*	P
7440-39-3	Barium	71.7		*	P
7440-41-7	Beryllium	0.30			P
7440-43-9	Cadmium	0.38		*	P
7440-70-2	Calcium	5610			P
7440-47-3	Chromium	7.8		*	P
7440-48-4	Cobalt	5.6		E	P
7440-50-8	Copper	45.5		*	P
7439-89-6	Iron	17100			P
7439-92-1	Lead	14.1			P
7439-95-4	Magnesium	2620			P
7439-96-5	Manganese	642		*	P
7439-97-6	Mercury	0.028	B		CV
7440-02-0	Nickel	14.7		E	P
7440-09-7	Potassium	486			P
7782-49-2	Selenium	0.64	U		P
7440-22-4	Silver	0.064	U		P
7440-23-5	Sodium	41.7	B		P
7440-28-0	Thallium	0.22	U		P
7440-62-2	Vanadium	10.5			P
7440-66-6	Zinc	98.0		N*E	P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

(211) TR-3 (11)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Lab Sample ID: N1943-03

Level (low/med): MED Date Received: 10/16/2014

% Solids: 93.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4630			P
7440-36-0	Antimony	0.30	U	N	P
7440-38-2	Arsenic	13.2		N*	P
7440-39-3	Barium	33.0		*	P
7440-41-7	Beryllium	0.22			P
7440-43-9	Cadmium	0.37		*	P
7440-70-2	Calcium	46100			P
7440-47-3	Chromium	5.1		*	P
7440-48-4	Cobalt	4.4		E	P
7440-50-8	Copper	61.7		*	P
7439-89-6	Iron	12100			P
7439-92-1	Lead	12.0			P
7439-95-4	Magnesium	4020			P
7439-96-5	Manganese	724		*	P
7439-97-6	Mercury	0.017	B		CV
7440-02-0	Nickel	15.6		E	P
7440-09-7	Potassium	362			P
7782-49-2	Selenium	1.3			P
7440-22-4	Silver	0.051	U		P
7440-23-5	Sodium	43.9			P
7440-28-0	Thallium	0.18	U		P
7440-62-2	Vanadium	7.0			P
7440-66-6	Zinc	120		N*E	P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

(211) TR-4 (11)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Lab Sample ID: N1943-04

Level (low/med): MED Date Received: 10/16/2014

% Solids: 93.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6430			P
7440-36-0	Antimony	0.64	B	N	P
7440-38-2	Arsenic	28.1		N*	P
7440-39-3	Barium	79.4		*	P
7440-41-7	Beryllium	0.28			P
7440-43-9	Cadmium	1.2		*	P
7440-70-2	Calcium	8290			P
7440-47-3	Chromium	8.4		*	P
7440-48-4	Cobalt	9.8		E	P
7440-50-8	Copper	147		*	P
7439-89-6	Iron	30500			P
7439-92-1	Lead	44.1			P
7439-95-4	Magnesium	2920			P
7439-96-5	Manganese	593		*	P
7439-97-6	Mercury	0.018	B		CV
7440-02-0	Nickel	30.0		E	P
7440-09-7	Potassium	397			P
7782-49-2	Selenium	0.45	U		P
7440-22-4	Silver	0.045	U		P
7440-23-5	Sodium	33.9	B		P
7440-28-0	Thallium	0.16	U		P
7440-62-2	Vanadium	10.1			P
7440-66-6	Zinc	174		N*E	P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

(211) TR-5 (11)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Lab Sample ID: N1943-05

Level (low/med): MED Date Received: 10/16/2014

% Solids: 91.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3980			P
7440-36-0	Antimony	0.76		N	P
7440-38-2	Arsenic	21.3		N*	P
7440-39-3	Barium	39.0		*	P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.46		*	P
7440-70-2	Calcium	8790			P
7440-47-3	Chromium	4.9		*	P
7440-48-4	Cobalt	4.0		E	P
7440-50-8	Copper	42.3		*	P
7439-89-6	Iron	13200			P
7439-92-1	Lead	21.9			P
7439-95-4	Magnesium	2390			P
7439-96-5	Manganese	327		*	P
7439-97-6	Mercury	0.027	B		CV
7440-02-0	Nickel	11.3		E	P
7440-09-7	Potassium	292			P
7782-49-2	Selenium	0.46	U		P
7440-22-4	Silver	0.046	U		P
7440-23-5	Sodium	39.3			P
7440-28-0	Thallium	0.16	U		P
7440-62-2	Vanadium	6.7			P
7440-66-6	Zinc	101		N*E	P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

(211) TR-6 (14)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Lab Sample ID: N1943-06

Level (low/med): MED Date Received: 10/16/2014

% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6290			P
7440-36-0	Antimony	0.48	B	N	P
7440-38-2	Arsenic	45.7		N*	P
7440-39-3	Barium	50.8		*	P
7440-41-7	Beryllium	0.27			P
7440-43-9	Cadmium	0.66		*	P
7440-70-2	Calcium	18700			P
7440-47-3	Chromium	8.6		*	P
7440-48-4	Cobalt	5.8		E	P
7440-50-8	Copper	47.4		*	P
7439-89-6	Iron	23100			P
7439-92-1	Lead	13.3			P
7439-95-4	Magnesium	2780			P
7439-96-5	Manganese	524		*	P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	16.2		E	P
7440-09-7	Potassium	401			P
7782-49-2	Selenium	0.41	U		P
7440-22-4	Silver	0.041	U		P
7440-23-5	Sodium	46.0			P
7440-28-0	Thallium	0.14	U		P
7440-62-2	Vanadium	10.3			P
7440-66-6	Zinc	112		N*E	P

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	10/27/14 13:33				10/27/14 13:51		10/27/14 14:09		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury	5.0	5.07	101.5	5.0	4.98	99.6	4.90	98.1	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					10/27/14 14:28		10/27/14 14:45		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	4.88	97.5	4.80	96.0	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	10/24/14 9:05				10/24/14 9:28		10/24/14 09:53		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	10417.92	104.2	10000.0	10683.25	106.8	10511.91	105.1	P
Antimony	500.0	480.71	96.1	500.0	500.09	100.0	496.27	99.3	P
Arsenic	500.0	517.02	103.4	500.0	538.28	107.7	532.83	106.6	P
Barium	10000.0	10402.59	104.0	10000.0	10711.25	107.1	10524.62	105.2	P
Beryllium	250.0	255.64	102.3	250.0	262.49	105.0	259.21	103.7	P
Cadmium	250.0	254.05	101.6	250.0	265.26	106.1	266.11	106.4	P
Calcium	25000.0	24133.67	96.5	25000.0	24768.02	99.1	24461.18	97.8	P
Chromium	1000.0	1010.79	101.1	1000.0	1039.63	104.0	1040.74	104.1	P
Cobalt	2500.0	2503.20	100.1	2500.0	2585.05	103.4	2593.99	103.8	P
Copper	1250.0	1288.71	103.1	1250.0	1299.17	103.9	1283.01	102.6	P
Iron	5000.0	5120.99	102.4	5000.0	5277.32	105.5	5281.43	105.6	P
Lead	500.0	508.06	101.6	500.0	532.39	106.5	525.47	105.1	P
Magnesium	25000.0	26135.78	104.5	25000.0	27393.40	109.6	26806.75	107.2	P
Manganese	2500.0	2583.70	103.3	2500.0	2674.38	107.0	2643.03	105.7	P
Nickel	2500.0	2595.68	103.8	2500.0	2677.91	107.1	2678.34	107.1	P
Potassium	25000.0	25559.25	102.2	25000.0	26553.70	106.2	26080.88	104.3	P
Selenium	500.0	505.27	101.1	500.0	527.61	105.5	518.57	103.7	P
Silver	1250.0	1305.30	104.4	1250.0	1331.21	106.5	1313.11	105.0	P
Sodium	25000.0	25920.54	103.7	25000.0	26845.88	107.4	26356.33	105.4	P
Thallium	500.0	474.13	94.8	500.0	499.64	99.9	488.53	97.7	P
Vanadium	2500.0	2595.39	103.8	2500.0	2663.74	106.5	2624.74	105.0	P
Zinc	2500.0	2601.86	104.1	2500.0	2727.99	109.1	2727.06	109.1	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					10/24/14 10:19		10/24/14 10:49		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10472.28	104.7	10119.76	101.2	P
Antimony				500.0	489.30	97.9	480.28	96.1	P
Arsenic				500.0	531.76	106.4	524.09	104.8	P
Barium				10000.0	10522.57	105.2	10218.78	102.2	P
Beryllium				250.0	259.33	103.7	251.91	100.8	P
Cadmium				250.0	262.55	105.0	259.48	103.8	P
Calcium				25000.0	24325.99	97.3	23728.46	94.9	P
Chromium				1000.0	1020.08	102.0	1000.54	100.1	P
Cobalt				2500.0	2546.49	101.9	2503.42	100.1	P
Copper				1250.0	1271.48	101.7	1231.87	98.5	P
Iron				5000.0	5222.01	104.4	5101.26	102.0	P
Lead				500.0	521.87	104.4	515.53	103.1	P
Magnesium				25000.0	26892.50	107.6	26199.93	104.8	P
Manganese				2500.0	2657.81	106.3	2584.24	103.4	P
Nickel				2500.0	2633.03	105.3	2586.13	103.4	P
Potassium				25000.0	26458.97	105.8	26350.31	105.4	P
Selenium				500.0	515.60	103.1	501.51	100.3	P
Silver				1250.0	1308.76	104.7	1273.24	101.9	P
Sodium				25000.0	26578.43	106.3	26620.84	106.5	P
Thallium				500.0	491.65	98.3	480.02	96.0	P
Vanadium				2500.0	2626.60	105.1	2553.33	102.1	P
Zinc				2500.0	2687.96	107.5	2640.78	105.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					10/24/14 11:31				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Antimony				500.0	471.79	94.4			P
Arsenic				500.0	526.52	105.3			P
Calcium				25000.0	23502.73	94.0	22700.56	90.8	P
Iron				5000.0	5159.76	103.2	4869.21	97.4	P
Zinc				2500.0	2682.77	107.3			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID: **MB-79682**

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

FIMS2_141027A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 10/27/14 13:53	C	10/27/14 14:11	C	10/27/14 14:29	C	Preparation Blank	C	M
Mercury	0.028	U	0.028	U	0.028	U	0.028	U	0.002	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

FIMS2_141027A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	10/27/14 14:46	C		C		C		C	M
Mercury			0.028	U							CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID: **MB-79662**

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

OPTIMA3_141024A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 10/24/14 9:31	C	10/24/14 9:57	C	10/24/14 10:23	C	Preparation Blank	C	M
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	1.200	U	P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	0.380	U	P
Arsenic	4.3	U	4.3	U	4.3	U	4.3	U	0.410	U	P
Barium	1.5	B	1.1	U	1.1	U	1.5	B	0.031	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.002	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.015	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	6.100	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.032	B	P
Cobalt	0.7	U	0.7	U	0.7	U	0.7	U	0.044	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	0.110	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	1.500	U	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	0.170	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	0.630	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	0.130	U	P
Nickel	1.1	B	0.8	U	1.0	B	0.8	U	0.043	U	P
Potassium	76.0	U	76.0	U	80.8	B	76.0	U	3.400	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	0.640	U	P
Silver	6.9	U	6.9	U	6.9	U	6.9	U	0.064	U	P
Sodium	62.3	B	63.7	B	47.2	B	49.8	B	3.300	B	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	0.220	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	0.060	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	0.180	U	P

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3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

OPTIMA3_141024A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 10/24/14 10:53	C		C		C	Preparation Blank	C	M
Aluminum			66.0	U							P
Antimony			9.3	U	9.3	U					P
Arsenic			6.0	B	4.3	U					P
Barium			1.1	U							P
Beryllium			0.3	U							P
Cadmium			0.9	U							P
Calcium			110.0	U	110.0	U	110.0	U			P
Chromium			0.6	U							P
Cobalt			0.7	U							P
Copper			3.6	U							P
Iron			31.0	U	31.0	U	31.0	U			P
Lead			4.2	U							P
Magnesium			76.0	U							P
Manganese			10.0	U							P
Nickel			0.8	U							P
Potassium			121.9	B							P
Selenium			12.0	U							P
Silver			6.9	U							P
Sodium			55.4	B							P
Thallium			6.2	U							P
Vanadium			1.1	U							P
Zinc			4.9	U	4.9	U					P

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	550277	539072.9	107.8				
Antimony	0	600	0	638.2	106.4				
Arsenic	0	100	-3	104.1	104.1				
Barium	0	500	4	544.3	108.9				
Beryllium	0	500	0	508.3	101.7				
Cadmium	0	1000	1	997.5	99.8				
Calcium	500000	500000	562088	557214.6	111.4				
Chromium	0	500	3	509.4	101.9				
Cobalt	0	500	2	473.2	94.6				
Copper	0	500	6	551.6	110.3				
Iron	200000	200000	200159	196574.5	98.3				
Lead	0	500	10	503.4	100.7				
Magnesium	500000	500000	517296	507485.7	101.5				
Manganese	0	500	0	520.8	104.2				
Nickel	0	1000	3	962.2	96.2				
Potassium	0	25000	20	25896.8	103.6				
Selenium	0	500	-4	514.3	102.9				
Silver	0	200	0	225	112.5				
Sodium	0	25000	261	25491.8	102.0				
Thallium	0	100	1	87.2	87.2				
Vanadium	0	500	3	517.9	103.6				
Zinc	0	1000	5	988.6	98.9				

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

(211) TR-6 (14)S

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	11.9		0.48	B	17.1	66	N	P
Arsenic	75-125	35.6		45.7		17.1	-59	N	P
Barium	75-125	391		50.8		342	100		P
Beryllium	75-125	8.7		0.27		8.5	99		P
Cadmium	75-125	10.1		0.66		8.5	111		P
Chromium	75-125	41.2		8.6		34.2	95		P
Cobalt	75-125	91.0		5.8		85.3	100		P
Copper	75-125	97.4		47.4		42.5	118		P
Lead	75-125	33.2		13.3		17.1	117		P
Nickel	75-125	99.4		16.2		85.3	98		P
Selenium	75-125	18.2		0.41	U	17.1	107		P
Silver	75-125	44.9		0.041	U	42.5	106		P
Thallium	75-125	17.5		0.14	U	17.1	102		P
Vanadium	75-125	93.2		10.3		85.3	97		P
Zinc	75-125	268		112		85.3	183	N	P
Mercury	75-125	0.83		0.023	B	0.83	97		CV

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

(211) TR-6 (14)A

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spike Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony		408.00		14.97	B	455.0	86		P
Arsenic		1835.88		1410.27		455.0	94		P
Zinc		5516.95		3463.69		2270.0	91		P

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

(211) TR-6 (14)D

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 93.0 % Solids for Duplicate: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		6286.0900		5946.5494		5.6		P
Antimony		0.4849	B	0.3200	U	200		P
Arsenic		45.6728		19.8451		78.8	*	P
Barium		50.8321		70.4305		32.3	*	P
Beryllium	0.2	0.2694		0.2756		2.3		P
Cadmium	0.2	0.6593		0.8452		24.7	*	P
Calcium		18712.0324		16712.6008		11.3		P
Chromium		8.6413		6.9155		22.2	*	P
Cobalt	1.6	5.7585		6.6765		14.8		P
Copper		47.4259		71.1835		40.1	*	P
Iron		23067.1907		19452.3953		17		P
Lead		13.2665		13.9171		4.8		P
Magnesium		2781.2174		3294.9114		16.9		P
Manganese		524.0703		1142.2736		74.2	*	P
Nickel		16.1615		17.7566		9.4		P
Potassium		400.9524		425.4461		5.9		P
Selenium		0.4100	U	0.9539	B	200		P
Silver		0.0410	U	0.0540	U			P
Sodium	32.0	46.0280		39.1858	B	16.1		P
Thallium		0.1400	U	0.1900	U			P
Vanadium	1.6	10.2544		9.6010		6.6		P
Zinc		112.1744		200.3688		56.4	*	P
Mercury		0.0225	B	0.0279	B	21.4		CV

7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-79662

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum				455.0	455.9		364	546.0	100.2
Antimony				22.8	26.3		18.2	27.3	115.4
Arsenic				22.8	26.5		18.2	27.3	116.2
Barium				455.0	476.9		364	546.0	104.8
Beryllium				11.4	11.6		9.1	13.6	101.8
Cadmium				11.4	13.4		9.1	13.6	117.5
Calcium				1135.0	1104.9		908	1362.0	97.3
Chromium				45.5	48.4		36.4	54.6	106.4
Cobalt				113.5	119.4		90.8	136.2	105.2
Copper				56.5	58.3		45.2	67.8	103.2
Iron				227.5	245.3		182	273.0	107.8
Lead				22.8	26.6		18.2	27.3	116.7
Magnesium				1135.0	1182.2		908	1362.0	104.2
Manganese				113.5	120.3		90.8	136.2	106.0
Nickel				113.5	119.2		90.8	136.2	105.0
Potassium				1135.0	1178.7		908	1362.0	103.9
Selenium				22.8	24.5		18.2	27.3	107.5
Silver				56.5	59.2		42.4	67.8	104.8
Sodium				1135.0	1189.0		908	1362.0	104.8
Thallium				22.8	24.6		18.2	27.3	107.9
Vanadium				113.5	117.5		90.8	136.2	103.5
Zinc				113.5	118.5		90.8	136.2	104.4

7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-79682

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury				0.8	0.7		0.6	0.9	87.5

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

(211) TR-6 (14)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	194100.12		191964.54		1		P
Antimony	14.97	B	46.50	U	100		P
Arsenic	1410.27		1502.10		7		P
Barium	1569.58		1678.43		7		P
Beryllium	8.32		8.94		8		P
Cadmium	20.36		17.57		14		P
Calcium	28889.24		29945.03		4		P
Chromium	266.82		282.72		6		P
Cobalt	177.81		196.52		11	E	P
Copper	1464.40		1452.42		1		P
Iron	35613.11		36907.03		4		P
Lead	409.64		448.67		10		P
Magnesium	85877.65		93559.54		9		P
Manganese	16182.10		17805.38		10		P
Nickel	499.03		552.56		11	E	P
Potassium	12380.50		13425.80		8		P
Selenium	12.00	U	60.00	U			P
Silver	6.90	U	34.50	U			P
Sodium	1421.24		1762.21		24		P
Thallium	6.20	U	31.00	U			P
Vanadium	316.63		335.54		6		P
Zinc	3463.69		3921.81		13	E	P

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Instrument Type: CV InstrumentID: FIMS2 Date: 03/04/2010

Preparation Method: 7471B

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Mercury	253.70	0.2	0.028

Comments:

U.S. EPA - CLP

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Instrument Type: CV InstrumentID: FIMS2 Date: 02/09/2011

Preparation Method: 7471B

Concentration Units (ug/L or mg/kg): mg/Kg

Analyte	Wavelength /Mass	CRDL	MDL
Mercury	253.70	0.03	0.0021

Comments:

U.S. EPA - CLP

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Instrument Type: P InstrumentID: OPTIMA3 Date: 06/03/2010

Preparation Method: 3050B

Concentration Units (ug/L or mg/kg): mg/Kg

Analyte	Wavelength /Mass	CRDL	MDL
Aluminum	308.21	10	1.2
Antimony	206.83	1.0	0.38
Arsenic	188.98	1.0	0.41
Barium	233.53	10	0.031
Beryllium	313.11	0.25	0.0015
Cadmium	226.50	0.25	0.015
Calcium	227.54	40	6.1
Chromium	267.72	1.0	0.019
Cobalt	228.62	2.5	0.044
Copper	324.75	1.5	0.11
Iron	273.96	10	1.5
Lead	220.35	0.50	0.17
Magnesium	279.08	25	0.63
Manganese	257.61	2.5	0.13
Nickel	231.60	2.5	0.043
Potassium	766.49	50	3.4
Selenium	196.03	1.5	0.64
Silver	328.07	1.5	0.064
Sodium	589.59	50	1.1
Thallium	190.80	1.0	0.22
Vanadium	292.40	2.5	0.060
Zinc	206.20	2.5	0.18

Comments:

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Instrument Type: P InstrumentID: OPTIMA3 Date: 03/03/2010

Preparation Method: 200.7

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Aluminum	308.21	200	66.0
Antimony	206.83	20	9.3
Arsenic	188.98	20	4.3
Barium	233.53	200	1.1
Beryllium	313.11	5.0	0.26
Cadmium	226.50	5.0	0.89
Calcium	227.54	800	110
Chromium	267.72	20	0.64
Cobalt	228.62	50	0.67
Copper	324.75	30	3.6
Iron	273.96	200	31.0
Lead	220.35	10	4.2
Magnesium	279.08	500	76.0
Manganese	257.61	50	10.0
Nickel	231.60	50	0.85
Potassium	766.49	1000	76.0
Selenium	196.03	30	12.0
Silver	328.07	30	6.9
Sodium	589.59	1000	29.0
Thallium	190.80	20	6.2
Vanadium	292.40	50	1.1
Zinc	206.20	50	4.9

Comments:

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11A

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

ICP ID Number: OPTIMA3 Date: 10/21/2014

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Co
Aluminum	308.21		0.2889180	0.0000000	0.0779334	0.0000000
Antimony	206.83	0.0261113	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	188.97	-0.0219343	-0.0507363	-0.1332390	-0.0048136	-0.1262630
Barium	233.52	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0644149	0.0000000	-0.0856494
Calcium	227.54	-0.7178510		-17.7345000	0.0000000	89.6655000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	-0.0906131	0.0000000	0.0000000
Iron	273.95	0.1114540	0.0000000		0.0000000	0.0000000
Lead	220.35	-0.0758204	0.0000000	0.0101454	0.0000000	-0.3333110
Magnesium	279.07	0.0000000	0.0000000	0.0000000		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.3511550	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.7095540	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	-0.0106543	0.0000000	-0.1154390	-0.0378412	6.6982700
Titanium	334.94	0.0054496	-0.0157887	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0344700	0.0000000	0.0000000
Zinc	206.20	0.0166683	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

ICP ID Number: OPTIMA3 Date: 10/21/2014

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	Mn	Ni	Tl
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	13.9106000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	188.97	-9.5336900	0.0886441	-0.1237540	-0.0528439	0.0000000
Barium	233.52	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	-0.2873620	0.0000000
Calcium	227.54	0.0000000	0.0000000	0.0000000	105.4460000	0.0000000
Chromium	267.71		0.0000000	0.5921150	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.1593990	0.0000000
Copper	324.75	0.0000000		0.0000000	0.0000000	0.0000000
Iron	273.95	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.4038970	0.1054150	-0.0837870	0.0000000
Magnesium	279.07	4.9990400	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000		0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000		0.4530700
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.1933940	0.0000000
Silver	328.06	0.0000000	0.1002020	0.1735580	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.3051750	0.0000000	0.5473360	0.0000000	
Titanium	334.94	0.1729950	0.0000000	0.0000000	0.0000000	0.1514880
Vanadium	292.40	-1.9068400	0.2499030	0.0000000	0.0000000	0.0000000
Zinc	206.20	-3.4253500	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

ICP ID Number: OPTIMA3 Date: 10/21/2014

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	V	___	___	___
Aluminum	308.21	0.0000000	18.9174000			
Antimony	206.83	-2.3339800	-1.6377600			
Arsenic	188.97	-0.6376170	0.1335010			
Barium	233.52	0.0000000	-1.8005100			
Beryllium	313.10	-2.0849700	-0.0375207			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	227.54	0.0000000	68.6496000			
Chromium	267.71	0.0000000	-0.5287900			
Cobalt	228.61	2.2080300	0.0000000			
Copper	324.75	0.0000000	-0.2061460			
Iron	273.95	0.0000000	0.0000000			
Lead	220.35	-0.9285110	-0.0897117			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.5712250	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	0.0000000	0.5041080			
Silver	328.06	0.0000000	-0.4208720			
Sodium	589.59	0.0000000	0.0000000			
Thallium	190.80	0.5855000	4.9596200			
Titanium	334.94		0.0000000			
Vanadium	292.40	0.9399510				
Zinc	206.20	0.0000000	0.0000000			

Comments:

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ICP LINEAR RANGES (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

ICP ID Number: OPTIMA3 Date: 6/24/2014

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	0.20	500000	P
Antimony	0.20	50000	P
Arsenic	0.20	50000	P
Barium	0.20	100000	P
Beryllium	0.20	5000	P
Cadmium	0.20	50000	P
Calcium	0.20	500000	P
Chromium	0.20	50000	P
Cobalt	0.20	100000	P
Copper	0.20	50000	P
Iron	0.20	500000	P
Lead	0.20	100000	P
Magnesium	0.20	500000	P
Manganese	0.20	50000	P
Nickel	0.20	100000	P
Potassium	0.20	500000	P
Selenium	0.20	50000	P
Silver	0.20	2500	P
Sodium	0.20	500000	P
Thallium	0.20	50000	P
Vanadium	0.20	50000	P
Zinc	0.20	50000	P

Comments:

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Preparation Method: 3050B Batch ID: 79662

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
(211) TR-1 (13)	10/23/2014	1.02	50
(211) TR-2 (11)	10/23/2014	1.09	50
(211) TR-3 (11)	10/23/2014	1.34	50
(211) TR-4 (11)	10/23/2014	1.51	50
(211) TR-5 (11)	10/23/2014	1.54	50
(211) TR-6 (14)	10/23/2014	1.66	50
(211) TR-6 (14)D	10/23/2014	1.27	50
(211) TR-6 (14)S	10/23/2014	1.43	50
LCSS	10/23/2014	1.00	50
PBS	10/23/2014	1.00	50

Comments:

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Preparation Method: 7471B Batch ID: 79681

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	10/24/2014	0.60	100
CCV	10/24/2014	0.60	100
ICB	10/24/2014	0.60	100
ICV	10/24/2014	0.60	100
S0	10/24/2014	0.60	100
S0.2	10/24/2014	0.60	100
S1.0	10/24/2014	0.60	100
S10.0	10/24/2014	0.60	100
S2.0	10/24/2014	0.60	100
S5.0	10/24/2014	0.60	100

Comments:

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Preparation Method: 7471B Batch ID: 79682

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
(211) TR-1 (13)	10/24/2014	0.59	100
(211) TR-2 (11)	10/24/2014	0.58	100
(211) TR-3 (11)	10/24/2014	0.51	100
(211) TR-4 (11)	10/24/2014	0.51	100
(211) TR-5 (11)	10/24/2014	0.59	100
(211) TR-6 (14)	10/24/2014	0.51	100
(211) TR-6 (14)D	10/24/2014	0.59	100
(211) TR-6 (14)S	10/24/2014	0.59	100
LCSS	10/24/2014	0.60	100
PBS	10/24/2014	0.60	100

Comments:

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Instrument ID Number: FIMS2 Method: CV

Start Date: 10/27/2014 End Date: 10/27/2014

FIMS2_141027A

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1323																X									
S0.2	1.0	1325																X									
S1.0	1.0	1326																X									
S2.0	1.0	1328																X									
S5.0	1.0	1330																X									
S10.0	1.0	1331																X									
ICV	1.0	1333																X									
ICB	1.0	1334																X									
ZZZZZZ	1.0	1336																										
ZZZZZZ	1.0	1338																										
ZZZZZZ	1.0	1340																										
ZZZZZZ	1.0	1341																										
ZZZZZZ	1.0	1343																										
ZZZZZZ	1.0	1344																										
ZZZZZZ	1.0	1346																										
ZZZZZZ	1.0	1348																										
ZZZZZZ	1.0	1349																										
CCV	1.0	1351																X									
CCB	1.0	1353																X									
ZZZZZZ	1.0	1354																										
ZZZZZZ	1.0	1356																										
ZZZZZZ	1.0	1358																										
ZZZZZZ	1.0	1359																										
PBS	1.0	1401																X									
LCSS	1.0	1403																X									
ZZZZZZ	1.0	1404																										
ZZZZZZ	1.0	1406																										
ZZZZZZ	1.0	1408																										
CCV	1.0	1409																X									
CCB	1.0	1411																X									
ZZZZZZ	1.0	1413																										
ZZZZZZ	1.0	1415																										

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Instrument ID Number: FIMS2 Method: CV

Start Date: 10/27/2014 End Date: 10/27/2014

FIMS2_141027A

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	1416																										
ZZZZZZ	1.0	1418																										
ZZZZZZ	1.0	1420																										
ZZZZZZ	1.0	1421																										
ZZZZZZ	1.0	1423																										
ZZZZZZ	1.0	1424																										
ZZZZZZ	1.0	1426																										
CCV	1.0	1428																X										
CCB	1.0	1429																X										
(211) TR-1 (13)	1.0	1431																X										
(211) TR-2 (11)	1.0	1433																X										
(211) TR-3 (11)	1.0	1435																X										
(211) TR-4 (11)	1.0	1436																X										
(211) TR-5 (11)	1.0	1438																X										
(211) TR-6 (14)	1.0	1440																X										
(211) TR-6 (14)D	1.0	1441																X										
(211) TR-6 (14)S	1.0	1443																X										
CCV	1.0	1445																X										
CCB	1.0	1446																X										

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Instrument ID Number: OPTIMA3 Method: P

Start Date: 10/24/2014 End Date: 10/24/2014

OPTIMA3_141024A

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0850		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S1	1.0	0854		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S2	1.0	0858		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S3	1.0	0901		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV	1.0	0905		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1.0	0909		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0912																									
ICSA	1.0	0916		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0920																									
ICSAB	1.0	0924		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.0	0928		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	0931		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0935																									
ZZZZZZ	1.0	0939																									
ZZZZZZ	1.0	0942																									
ZZZZZZ	1.0	0946																									
ZZZZZZ	5.0	0949																									
CCV	1.0	0953		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	0957		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBS	1.0	1000		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSS	1.0	1004		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
(211) TR-1 (13)	1.0	1008		X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
(211) TR-2 (11)	1.0	1012		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
(211) TR-3 (11)	1.0	1015		X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.0	1019		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	1023		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
(211) TR-4 (11)	1.0	1026		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
(211) TR-5 (11)	1.0	1030		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Instrument ID Number: OPTIMA3 Method: P

Start Date: 10/24/2014 End Date: 10/24/2014

OPTIMA3_141024A

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
(211) TR-6 (14)	1.0	1034		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
(211) TR-6 (14)D	1.0	1038		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
(211) TR-6 (14)S	1.0	1042			X	X	X	X	X		X	X	X		X				X		X	X		X	X	X	
(211) TR-6 (14)L	5.0	1045		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
CCV	1.0	1049		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	1053		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
(211) TR-6 (14)A	1.0	1056			X	X																				X	
ZZZZZZ	1.0	1100																									
ZZZZZZ	1.0	1104																									
ZZZZZZ	1.0	1108																									
ZZZZZZ	1.0	1112																									
ZZZZZZ	1.0	1115																									
ZZZZZZ	1.0	1119																									
ZZZZZZ	1.0	1123																									
ZZZZZZ	1.0	1127																									
CCV	1.0	1131			X	X				X				X												X	
CCB	1.0	1134			X	X				X				X												X	
ZZZZZZ	1.0	1138																									
ZZZZZZ	1.0	1142																									
ZZZZZZ	1.0	1146																									
ZZZZZZ	1.0	1149																									
(211) TR-1 (13)	20.0	1153								X																	
(211) TR-3 (11)	20.0	1157								X																	
(211) TR-4 (11)	20.0	1200												X													

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 4884S-13

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SN1943

Instrument ID Number: OPTIMA3 Method: P

Start Date: 10/24/2014 End Date: 10/24/2014

OPTIMA3_141024A

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
(211) TR-6 (14)	20.0	1204								X				X													
(211) TR-6 (14)D	20.0	1208								X				X													
(211) TR-6 (14)L	100.0	1211								X				X													
CCV	1.0	1215								X				X													
CCB	1.0	1219								X				X													

Instrument Raw Data

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Reprocessing Begun
Logged In Analyst: mitOptima3 **Technique: ICP Continuous**

Results Data Set (original): B14102401
Results Library (original): C:\pe\Administrator\Results\Results.mdb
Results Data Set (reprocessed): B14102401A
Results Library (reprocessed): C:\pe\Administrator\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 10/24/2014 8:50:43 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:54:52 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1611743.1	22441.86	1.39%	100.00	%
Lu 261.542	947266.5	12634.43	1.33%	100.0	%
Ag 328.068†	-3362.7	52.81	1.57%	[0.00]	mg/L
Al 308.215†	11086.6	131.43	1.19%	[0.00]	mg/L
As 188.979†	-8.7	2.01	23.15%	[0.00]	mg/L
Ba 233.527†	-11.3	6.17	54.76%	[0.00]	mg/L
Be 313.107†	-2.3	42.82	>999.9%	[0.00]	mg/L
Co 228.616†	-44.4	6.44	14.50%	[0.00]	mg/L
Cr 267.716†	58.2	3.60	6.19%	[0.00]	mg/L
Cu 324.752†	4091.1	76.88	1.88%	[0.00]	mg/L
Fe 273.955†	-483.0	8.24	1.71%	[0.00]	mg/L
Mg 279.077†	-192.5	16.75	8.70%	[0.00]	mg/L
Mn 257.610†	42.3	5.36	12.67%	[0.00]	mg/L
Ni 231.604†	-20.9	7.93	37.90%	[0.00]	mg/L
Pb 220.353†	28.5	1.70	5.98%	[0.00]	mg/L
Sb 206.836†	25.4	2.21	8.69%	[0.00]	mg/L
Se 196.026†	0.5	5.41	>999.9%	[0.00]	mg/L
Tl 190.801†	-11.2	2.97	26.52%	[0.00]	mg/L
V 292.402†	22.8	12.42	54.48%	[0.00]	mg/L
Zn 206.200†	48.1	5.39	11.21%	[0.00]	mg/L
Cd 226.502†	-63.5	2.94	4.63%	[0.00]	mg/L
Ti 334.940†	42.1	28.07	66.66%	[0.00]	mg/L
Ca 227.546†	18.5	13.60	73.65%	[0.00]	mg/L
Na 589.592	813.4	22.69	2.79%	[0.00]	mg/L
K 766.490	1191.9	58.78	4.93%	[0.00]	mg/L

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Sequence No.: 2 **Autosampler Location: 9**
Sample ID: S1 **Date Collected: 10/24/2014 8:54:20 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:54:55 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1540084.7	12339.58	0.80%	95.554	%
Lu 261.542	905133.4	7851.60	0.87%	95.55	%
Ag 328.068†	350392.2	6877.74	1.96%	[2.5]	mg/L
Al 308.215†	352952.9	6724.68	1.91%	[20]	mg/L
As 188.979†	678.2	10.46	1.54%	[1]	mg/L
Ba 233.527†	1263092.9	12465.42	0.99%	[20]	mg/L
Be 313.107†	938776.0	6956.71	0.74%	[0.5]	mg/L
Co 228.616†	117454.5	2218.13	1.89%	[5]	mg/L
Cr 267.716†	109998.6	1959.37	1.78%	[2]	mg/L
Cu 324.752†	516019.3	2001.63	0.39%	[2.5]	mg/L
Fe 273.955†	177601.1	3464.29	1.95%	[10]	mg/L

Mg 279.077†	621834.8	6099.13	0.98%	[50] mg/L
Mn 257.610†	2013404.5	8182.48	0.41%	[5] mg/L
Ni 231.604†	90997.8	1586.54	1.74%	[5] mg/L
Pb 220.353†	3166.6	34.48	1.09%	[1] mg/L
Sb 206.836†	1041.7	13.94	1.34%	[1] mg/L
Se 196.026†	455.8	5.91	1.30%	[1] mg/L
Tl 190.801†	801.1	15.95	1.99%	[1] mg/L
V 292.402†	501623.2	3953.53	0.79%	[5] mg/L
Zn 206.200†	78618.7	1528.68	1.94%	[5] mg/L
Cd 226.502†	15495.8	349.96	2.26%	[0.5] mg/L
Ti 334.940†	527248.4	5481.38	1.04%	[1] mg/L
Ca 227.546†	6859.7	84.74	1.24%	[50] mg/L
Na 589.592	282919.9	5433.96	1.92%	[50] mg/L
K 766.490	92373.9	1889.27	2.05%	[50] mg/L

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Sequence No.: 3 **Autosampler Location: 10**
Sample ID: S2 **Date Collected: 10/24/2014 8:58:03 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:54:56 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1565225.3	19928.73	1.27%	97.114	%
Lu 261.542	928436.2	13081.00	1.41%	98.01	%
Ag 328.068†	176739.9	1373.43	0.78%	[1.25]	mg/L
Al 308.215†	174640.5	1142.17	0.65%	[10]	mg/L
As 188.979†	338.6	2.77	0.82%	[0.5]	mg/L
Ba 233.527†	645503.0	4820.25	0.75%	[10]	mg/L
Be 313.107†	471061.4	2576.22	0.55%	[0.25]	mg/L
Co 228.616†	59996.9	818.48	1.36%	[2.5]	mg/L
Cr 267.716†	55696.2	889.87	1.60%	[1]	mg/L
Cu 324.752†	256079.4	2109.19	0.82%	[1.25]	mg/L
Fe 273.955†	90164.5	1339.95	1.49%	[5]	mg/L
Mg 279.077†	316088.4	1673.17	0.53%	[25]	mg/L
Mn 257.610†	1025042.1	2338.40	0.23%	[2.5]	mg/L
Ni 231.604†	46707.8	703.96	1.51%	[2.5]	mg/L
Pb 220.353†	1588.7	15.75	0.99%	[0.5]	mg/L
Sb 206.836†	522.3	5.26	1.01%	[0.5]	mg/L
Se 196.026†	231.0	1.77	0.77%	[0.5]	mg/L
Tl 190.801†	399.6	4.50	1.13%	[0.5]	mg/L
V 292.402†	251450.1	1678.76	0.67%	[2.5]	mg/L
Zn 206.200†	40479.9	581.57	1.44%	[2.5]	mg/L
Cd 226.502†	7911.9	128.83	1.63%	[0.25]	mg/L
Ti 334.940†	263977.6	2240.86	0.85%	[0.5]	mg/L
Ca 227.546†	3354.7	24.11	0.72%	[25]	mg/L
Na 589.592	143043.0	1532.44	1.07%	[25]	mg/L
K 766.490	45841.0	436.01	0.95%	[25]	mg/L

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Sequence No.: 4 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 10/24/2014 9:01:43 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:54:57 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1588985.9	18331.31	1.15%	98.588	%
Lu 261.542	935591.5	11916.16	1.27%	98.77	%
Ag 328.068†	3799.2	112.57	2.96%	[0.025]	mg/L
Al 308.215†	3290.0	207.14	6.30%	[0.2]	mg/L
As 188.979†	8.0	2.65	33.24%	[0.01]	mg/L
Ba 233.527†	13481.5	335.48	2.49%	[0.2]	mg/L

Be 313.107†	9389.3	283.35	3.02%	[0.005]	mg/L
Co 228.616†	1231.0	12.53	1.02%	[0.05]	mg/L
Cr 267.716†	1115.2	13.75	1.23%	[0.02]	mg/L
Cu 324.752†	5172.9	186.55	3.61%	[0.025]	mg/L
Fe 273.955†	1807.9	13.02	0.72%	[0.1]	mg/L
Mg 279.077†	6523.1	192.51	2.95%	[0.5]	mg/L
Mn 257.610†	21620.5	650.88	3.01%	[0.05]	mg/L
Ni 231.604†	968.7	9.36	0.97%	[0.05]	mg/L
Pb 220.353†	36.2	2.93	8.10%	[0.01]	mg/L
Sb 206.836†	11.7	0.86	7.38%	[0.01]	mg/L
Se 196.026†	2.2	5.02	228.03%	[0.01]	mg/L
Tl 190.801†	6.9	2.26	32.71%	[0.01]	mg/L
V 292.402†	5006.1	93.35	1.86%	[0.05]	mg/L
Zn 206.200†	832.9	13.66	1.64%	[0.05]	mg/L
Cd 226.502†	160.7	1.75	1.09%	[0.005]	mg/L
Ti 334.940†	5342.8	123.81	2.32%	[0.01]	mg/L
Ca 227.546†	62.8	3.22	5.12%	[0.5]	mg/L
Na 589.592	3426.1	89.08	2.60%	[0.5]	mg/L
K 766.490	1094.2	99.20	9.07%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	140400	0.00000	0.999994	
Al 308.215	3	Lin Thru 0	0.0	17610	0.00000	0.999991	
As 188.979	3	Lin Thru 0	0.0	678.0	0.00000	0.999999	
Ba 233.527	3	Lin Thru 0	0.0	63430	0.00000	0.999961	
Be 313.107	3	Lin Thru 0	0.0	1879000	0.00000	0.999999	
Co 228.616	3	Lin Thru 0	0.0	23590	0.00000	0.999963	
Cr 267.716	3	Lin Thru 0	0.0	55140	0.00000	0.999987	
Cu 324.752	3	Lin Thru 0	0.0	206100	0.00000	0.999996	
Fe 273.955	3	Lin Thru 0	0.0	17810	0.00000	0.999981	
Mg 279.077	3	Lin Thru 0	0.0	12480	0.00000	0.999978	
Mn 257.610	3	Lin Thru 0	0.0	404200	0.00000	0.999973	
Ni 231.604	3	Lin Thru 0	0.0	18300	0.00000	0.999944	
Pb 220.353	3	Lin Thru 0	0.0	3169	0.00000	0.999998	
Sb 206.836	3	Lin Thru 0	0.0	1042	0.00000	0.999999	
Se 196.026	3	Lin Thru 0	0.0	457.0	0.00000	0.999975	
Tl 190.801	3	Lin Thru 0	0.0	800.7	0.00000	0.999999	
V 292.402	3	Lin Thru 0	0.0	100400	0.00000	0.999999	
Zn 206.200	3	Lin Thru 0	0.0	15820	0.00000	0.999930	
Cd 226.502	3	Lin Thru 0	0.0	31120	0.00000	0.999964	
Ti 334.940	3	Lin Thru 0	0.0	527400	0.00000	1.000000	
Ca 227.546	3	Lin Thru 0	0.0	136.6	0.00000	0.999961	
Na 589.592	3	Lin Thru 0	0.0	5671	0.00000	0.999988	
K 766.490	3	Lin Thru 0	0.0	1845	0.00000	0.999994	

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Sequence No.: 5 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 10/24/2014 9:05:22 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:54:57 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1547961.6	96.043	%	0.1011				0.11%
Lu 261.542	917322.5	96.84	%	0.082				0.08%
Ag 328.068†	183190.3	1.3053	mg/L	0.00829	1.3053	mg/L	0.00829	0.63%
QC value within limits for Ag 328.068 Recovery = 104.42%								
Al 308.215†	184455.4	10.418	mg/L	0.0650	10.418	mg/L	0.0650	0.62%
QC value within limits for Al 308.215 Recovery = 104.18%								
As 188.979†	342.5	0.51702	mg/L	0.002685	0.51702	mg/L	0.002685	0.52%
QC value within limits for As 188.979 Recovery = 103.40%								
Ba 233.527†	659582.3	10.403	mg/L	0.0819	10.403	mg/L	0.0819	0.79%
QC value within limits for Ba 233.527 Recovery = 104.03%								
Be 313.107†	478127.9	0.25564	mg/L	0.001485	0.25564	mg/L	0.001485	0.58%

QC value within limits for Be 313.107 Recovery = 102.26%
Co 228.616† 59093.5 2.5032 mg/L 0.05291 2.5032 mg/L 0.05291 2.11%
QC value within limits for Co 228.616 Recovery = 100.13%
Cr 267.716† 55742.5 1.0108 mg/L 0.02201 1.0108 mg/L 0.02201 2.18%
QC value within limits for Cr 267.716 Recovery = 101.08%
Cu 324.752† 265395.3 1.2887 mg/L 0.00892 1.2887 mg/L 0.00892 0.69%
QC value within limits for Cu 324.752 Recovery = 103.10%
Fe 273.955† 91249.7 5.1210 mg/L 0.10322 5.1210 mg/L 0.10322 2.02%
QC value within limits for Fe 273.955 Recovery = 102.42%
Mg 279.077† 326188.2 26.136 mg/L 0.2273 26.136 mg/L 0.2273 0.87%
QC value within limits for Mg 279.077 Recovery = 104.54%
Mn 257.610† 1044203.1 2.5837 mg/L 0.01329 2.5837 mg/L 0.01329 0.51%
QC value within limits for Mn 257.610 Recovery = 103.35%
Ni 231.604† 47501.1 2.5957 mg/L 0.05819 2.5957 mg/L 0.05819 2.24%
QC value within limits for Ni 231.604 Recovery = 103.83%
Pb 220.353† 1604.1 0.50806 mg/L 0.001538 0.50806 mg/L 0.001538 0.30%
QC value within limits for Pb 220.353 Recovery = 101.61%
Sb 206.836† 510.3 0.48071 mg/L 0.002072 0.48071 mg/L 0.002072 0.43%
QC value within limits for Sb 206.836 Recovery = 96.14%
Se 196.026† 230.9 0.50527 mg/L 0.006379 0.50527 mg/L 0.006379 1.26%
QC value within limits for Se 196.026 Recovery = 101.05%
Tl 190.801† 403.4 0.47413 mg/L 0.002231 0.47413 mg/L 0.002231 0.47%
QC value within limits for Tl 190.801 Recovery = 94.83%
V 292.402† 260383.7 2.5954 mg/L 0.01758 2.5954 mg/L 0.01758 0.68%
QC value within limits for V 292.402 Recovery = 103.82%
Zn 206.200† 41102.8 2.6019 mg/L 0.06096 2.6019 mg/L 0.06096 2.34%
QC value within limits for Zn 206.200 Recovery = 104.07%
Cd 226.502† 7887.1 0.25405 mg/L 0.005218 0.25405 mg/L 0.005218 2.05%
QC value within limits for Cd 226.502 Recovery = 101.62%
Ti 334.940† 270347.7 0.51270 mg/L 0.003419 0.51270 mg/L 0.003419 0.67%
QC value within limits for Ti 334.940 Recovery = Not calculated
Ca 227.546† 3375.4 24.134 mg/L 0.1742 24.134 mg/L 0.1742 0.72%
QC value within limits for Ca 227.546 Recovery = 96.53%
Na 589.592 146999.4 25.921 mg/L 0.3609 25.921 mg/L 0.3609 1.39%
QC value within limits for Na 589.592 Recovery = 103.68%
K 766.490 47150.1 25.559 mg/L 0.4036 25.559 mg/L 0.4036 1.58%
QC value within limits for K 766.490 Recovery = 102.24%
All analyte(s) passed QC.

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Sequence No.: 6 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 10/24/2014 9:09:02 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:54:59 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1584534.5	98.312	%	0.9702				0.99%
Lu 261.542	930949.9	98.28	%	1.030				1.05%
Ag 328.068†	182.4	0.00130	mg/L	0.000571	0.00130	mg/L	0.000571	43.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	301.4	0.01710	mg/L	0.006414	0.01710	mg/L	0.006414	37.51%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.8	0.00121	mg/L	0.005605	0.00121	mg/L	0.005605	464.20%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	92.1	0.00145	mg/L	0.000355	0.00145	mg/L	0.000355	24.42%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	111.6	0.00006	mg/L	0.000010	0.00006	mg/L	0.000010	16.21%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	11.9	0.00051	mg/L	0.000158	0.00051	mg/L	0.000158	31.23%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	4.4	0.00008	mg/L	0.000096	0.00008	mg/L	0.000096	119.76%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	292.0	0.00142	mg/L	0.000133	0.00142	mg/L	0.000133	9.38%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	2.6	0.00014	mg/L	0.000091	0.00014	mg/L	0.000091	63.23%
QC value within limits for Fe 273.955 Recovery = Not calculated								

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Mg 279.077†            153.9     0.01233 mg/L      0.004009     0.01233 mg/L      0.004009  32.51%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†            114.6     0.00028 mg/L      0.000100     0.00028 mg/L      0.000100  35.20%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Ni 231.604†             19.2     0.00105 mg/L      0.000201     0.00105 mg/L      0.000201  19.13%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              3.9     0.00125 mg/L      0.001118     0.00125 mg/L      0.001118  89.72%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              3.3     0.00320 mg/L      0.001364     0.00320 mg/L      0.001364  42.62%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†             -3.3    -0.00724 mg/L      0.003695    -0.00724 mg/L      0.003695  51.02%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†              2.0     0.00245 mg/L      0.003095     0.00245 mg/L      0.003095 126.24%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†              67.2     0.00067 mg/L      0.000662     0.00067 mg/L      0.000662  99.01%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†             14.9     0.00094 mg/L      0.000089     0.00094 mg/L      0.000089   9.47%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†             -1.6    -0.00005 mg/L      0.000073    -0.00005 mg/L      0.000073 140.18%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†             63.7     0.00012 mg/L      0.000083     0.00012 mg/L      0.000083  69.12%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†              0.9     0.00646 mg/L      0.015360     0.00646 mg/L      0.015360 237.69%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592             353.5     0.06234 mg/L      0.004643     0.06234 mg/L      0.004643   7.45%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490               -8.8    -0.00475 mg/L      0.072133    -0.00475 mg/L      0.072133 >999.9%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 7 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 10/24/2014 9:12:41 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:00 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1614384.5	100.16	%	1.683				1.68%
Lu 261.542	950849.6	100.4	%	1.71				1.70%
Ag 328.068†	4551.3	0.03243	mg/L	0.000733	0.03243	mg/L	0.000733	2.26%
QC value within limits for Ag 328.068 Recovery = 108.09%								
Al 308.215†	3300.7	0.18629	mg/L	0.002694	0.18629	mg/L	0.002694	1.45%
QC value within limits for Al 308.215 Recovery = 93.15%								
As 188.979†	16.5	0.02459	mg/L	0.000722	0.02459	mg/L	0.000722	2.93%
QC value within limits for As 188.979 Recovery = 122.95%								
Ba 233.527†	13207.7	0.20830	mg/L	0.000410	0.20830	mg/L	0.000410	0.20%
QC value within limits for Ba 233.527 Recovery = 104.15%								
Be 313.107†	9711.3	0.00521	mg/L	0.000014	0.00521	mg/L	0.000014	0.27%
QC value within limits for Be 313.107 Recovery = 104.23%								
Co 228.616†	1182.9	0.05009	mg/L	0.000761	0.05009	mg/L	0.000761	1.52%
QC value within limits for Co 228.616 Recovery = 100.18%								
Cr 267.716†	1093.1	0.01982	mg/L	0.000418	0.01982	mg/L	0.000418	2.11%
QC value within limits for Cr 267.716 Recovery = 99.10%								
Cu 324.752†	6199.2	0.03011	mg/L	0.000424	0.03011	mg/L	0.000424	1.41%
QC value within limits for Cu 324.752 Recovery = 100.36%								
Fe 273.955†	3738.4	0.20983	mg/L	0.002388	0.20983	mg/L	0.002388	1.14%
QC value within limits for Fe 273.955 Recovery = 104.92%								
Mg 279.077†	6318.0	0.50623	mg/L	0.001996	0.50623	mg/L	0.001996	0.39%
QC value within limits for Mg 279.077 Recovery = 101.25%								
Mn 257.610†	21259.9	0.05260	mg/L	0.000260	0.05260	mg/L	0.000260	0.49%
QC value within limits for Mn 257.610 Recovery = 105.21%								
Ni 231.604†	960.8	0.05250	mg/L	0.000715	0.05250	mg/L	0.000715	1.36%
QC value within limits for Ni 231.604 Recovery = 104.99%								
Pb 220.353†	32.0	0.01013	mg/L	0.000681	0.01013	mg/L	0.000681	6.72%
QC value within limits for Pb 220.353 Recovery = 101.34%								
Sb 206.836†	19.1	0.01816	mg/L	0.004125	0.01816	mg/L	0.004125	22.71%

QC value within limits for Sb 206.836 Recovery = 90.82%

Se 196.026†	15.1	0.03299 mg/L	0.006717	0.03299 mg/L	0.006717	20.36%
QC value within limits for Se 196.026 Recovery = 109.96%						
Tl 190.801†	13.1	0.01583 mg/L	0.002522	0.01583 mg/L	0.002522	15.93%
QC value within limits for Tl 190.801 Recovery = 79.17%						
V 292.402†	5023.9	0.05007 mg/L	0.000545	0.05007 mg/L	0.000545	1.09%
QC value within limits for V 292.402 Recovery = 100.14%						
Zn 206.200†	822.5	0.05207 mg/L	0.001021	0.05207 mg/L	0.001021	1.96%
QC value within limits for Zn 206.200 Recovery = 104.13%						
Cd 226.502†	167.3	0.00538 mg/L	0.000219	0.00538 mg/L	0.000219	4.07%
QC value within limits for Cd 226.502 Recovery = 107.65%						
Ti 334.940†	10388.4	0.01970 mg/L	0.000014	0.01970 mg/L	0.000014	0.07%
QC value within limits for Ti 334.940 Recovery = 98.51%						
Ca 227.546†	100.8	0.72837 mg/L	0.127519	0.72837 mg/L	0.127519	17.51%
QC value within limits for Ca 227.546 Recovery = 91.05%						
Na 589.592	6131.9	1.0812 mg/L	0.04544	1.0812 mg/L	0.04544	4.20%
QC value within limits for Na 589.592 Recovery = 108.12%						
K 766.490	1863.7	1.0103 mg/L	0.04465	1.0103 mg/L	0.04465	4.42%
QC value within limits for K 766.490 Recovery = 101.03%						

All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 10/24/2014 9:16:18 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:01 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1426388.7	88.500	%	0.3849				0.43%
Lu 261.542	837416.7	88.40	%	0.546				0.62%
Ag 328.068†	-297.1	-0.00011	mg/L	0.000927	-0.00011	mg/L	0.000927	811.38%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	9693503.3	550.28	mg/L	6.516	550.28	mg/L	6.516	1.18%
QC value within limits for Al 308.215 Recovery = 110.06%								
As 188.979†	-33.4	-0.00288	mg/L	0.009680	-0.00288	mg/L	0.009680	335.63%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	273.4	0.00430	mg/L	0.000213	0.00430	mg/L	0.000213	4.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	75.1	0.00003	mg/L	0.000021	0.00003	mg/L	0.000021	64.06%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	45.4	0.00193	mg/L	0.000549	0.00193	mg/L	0.000549	28.44%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	138.9	0.00252	mg/L	0.000235	0.00252	mg/L	0.000235	9.35%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-2536.7	0.00583	mg/L	0.000447	0.00583	mg/L	0.000447	7.67%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	3566859.3	200.16	mg/L	0.395	200.16	mg/L	0.395	0.20%
QC value within limits for Fe 273.955 Recovery = 100.08%								
Mg 279.077†	6454870.8	517.30	mg/L	5.335	517.30	mg/L	5.335	1.03%
QC value within limits for Mg 279.077 Recovery = 103.46%								
Mn 257.610†	-290.5	-0.00072	mg/L	0.000113	-0.00072	mg/L	0.000113	15.75%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	54.2	0.00299	mg/L	0.000226	0.00299	mg/L	0.000226	7.55%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-103.6	0.00980	mg/L	0.000688	0.00980	mg/L	0.000688	7.02%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	15.3	0.00028	mg/L	0.009850	0.00028	mg/L	0.009850	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-35.9	-0.00443	mg/L	0.012154	-0.00443	mg/L	0.012154	274.05%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-42.7	0.00080	mg/L	0.004484	0.00080	mg/L	0.004484	557.21%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-411.8	0.00281	mg/L	0.000656	0.00281	mg/L	0.000656	23.34%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	220.9	0.00480	mg/L	0.000128	0.00480	mg/L	0.000128	2.66%
QC value within limits for Zn 206.200 Recovery = Not calculated								

Cd 226.502†	432.9	0.00101 mg/L	0.000226	0.00101 mg/L	0.000226	22.31%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Ti 334.940†	-1654.4	0.00268 mg/L	0.000142	0.00268 mg/L	0.000142	5.30%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	76237.7	562.09 mg/L	7.208	562.09 mg/L	7.208	1.28%	
QC value within limits for Ca 227.546 Recovery = 112.42%							
Na 589.592	1479.3	0.26084 mg/L	0.015963	0.26084 mg/L	0.015963	6.12%	
QC value within limits for Na 589.592 Recovery = Not calculated							
K 766.490	36.4	0.01971 mg/L	0.001402	0.01971 mg/L	0.001402	7.12%	
QC value within limits for K 766.490 Recovery = Not calculated							

All analyte(s) passed QC.

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Sequence No.: 9 **Autosampler Location: 6**
Sample ID: ICSAB **Date Collected: 10/24/2014 9:20:08 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:01 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2751761.7	170.73	%	9.915				5.81%
Internal Standard Check greater than the upper limit for Y 360.073. Recovery = 170.7%								
Lu 261.542	1613307.4	170.3	%	10.00				5.87%
Internal Standard Check greater than the upper limit for Lu 261.542. Recovery = 170.3%								
Ag 328.068†	438.9	0.00313	mg/L	0.002002	0.00313	mg/L	0.002002	64.02%
QC value less than the lower limit for Ag 328.068 Recovery = 1.56%								
Al 308.215†	-6305.2	-0.35803	mg/L	0.029368	-0.35803	mg/L	0.029368	8.20%
QC value less than the lower limit for Al 308.215 Recovery = -0.07%								
As 188.979†	6.0	0.00891	mg/L	0.000992	0.00891	mg/L	0.000992	11.14%
QC value less than the lower limit for As 188.979 Recovery = 8.91%								
Ba 233.527†	0.3	0.00000	mg/L	0.000036	0.00000	mg/L	0.000036	779.55%
QC value less than the lower limit for Ba 233.527 Recovery = 0.00%								
Be 313.107†	82.7	0.00004	mg/L	0.000018	0.00004	mg/L	0.000018	41.41%
QC value less than the lower limit for Be 313.107 Recovery = 0.01%								
Co 228.616†	8.3	0.00035	mg/L	0.000055	0.00035	mg/L	0.000055	15.72%
QC value less than the lower limit for Co 228.616 Recovery = 0.07%								
Cr 267.716†	-22.8	-0.00041	mg/L	0.000080	-0.00041	mg/L	0.000080	19.37%
QC value less than the lower limit for Cr 267.716 Recovery = -0.08%								
Cu 324.752†	-2636.3	-0.01279	mg/L	0.000458	-0.01279	mg/L	0.000458	3.58%
QC value less than the lower limit for Cu 324.752 Recovery = -2.56%								
Fe 273.955†	576.0	0.03237	mg/L	0.008821	0.03237	mg/L	0.008821	27.25%
QC value less than the lower limit for Fe 273.955 Recovery = 0.02%								
Mg 279.077†	682.5	0.05470	mg/L	0.016884	0.05470	mg/L	0.016884	30.87%
QC value less than the lower limit for Mg 279.077 Recovery = 0.01%								
Mn 257.610†	-53.3	-0.00013	mg/L	0.000009	-0.00013	mg/L	0.000009	6.96%
QC value less than the lower limit for Mn 257.610 Recovery = -0.03%								
Ni 231.604†	4.0	0.00022	mg/L	0.000194	0.00022	mg/L	0.000194	89.72%
QC value less than the lower limit for Ni 231.604 Recovery = 0.02%								
Pb 220.353†	-4.4	-0.00141	mg/L	0.000642	-0.00141	mg/L	0.000642	45.54%
QC value less than the lower limit for Pb 220.353 Recovery = -0.28%								
Sb 206.836†	-8.0	-0.00765	mg/L	0.001501	-0.00765	mg/L	0.001501	19.61%
QC value less than the lower limit for Sb 206.836 Recovery = -1.28%								
Se 196.026†	-0.5	-0.00107	mg/L	0.000559	-0.00107	mg/L	0.000559	52.38%
QC value less than the lower limit for Se 196.026 Recovery = -0.21%								
Tl 190.801†	3.9	0.00492	mg/L	0.000840	0.00492	mg/L	0.000840	17.06%
QC value less than the lower limit for Tl 190.801 Recovery = 4.92%								
V 292.402†	-28.6	-0.00028	mg/L	0.000238	-0.00028	mg/L	0.000238	84.68%
QC value less than the lower limit for V 292.402 Recovery = -0.06%								
Zn 206.200†	-26.1	-0.00165	mg/L	0.000057	-0.00165	mg/L	0.000057	3.49%
QC value less than the lower limit for Zn 206.200 Recovery = -0.16%								
Cd 226.502†	14.3	0.00046	mg/L	0.000144	0.00046	mg/L	0.000144	31.41%
QC value less than the lower limit for Cd 226.502 Recovery = 0.05%								
Ti 334.940†	-23.4	-0.00004	mg/L	0.000022	-0.00004	mg/L	0.000022	51.01%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	-2.9	-0.02125	mg/L	0.053110	-0.02125	mg/L	0.053110	249.89%
QC value less than the lower limit for Ca 227.546 Recovery = -0.00%								
Na 589.592	16.4	0.00289	mg/L	0.003152	0.00289	mg/L	0.003152	109.07%

QC value less than the lower limit for Na 589.592 Recovery = 0.01%

K 766.490	16.8	0.00912 mg/L	0.070894	0.00912 mg/L	0.070894	777.51%

QC value less than the lower limit for K 766.490 Recovery = 0.04%
Internal Standard Check failed. Continue with analysis.
QC Failed. Continue with analysis.

Sequence No.: 10 **Autosampler Location: 6**
Sample ID: ICSAB **Date Collected: 10/24/2014 9:24:23 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:02 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1434701.4	89.016	%	0.3082				0.35%
Lu 261.542	842000.1	88.89	%	0.223				0.25%
Ag 328.068†	31299.9	0.22496	mg/L	0.004601	0.22496	mg/L	0.004601	2.05%
QC value within limits for Ag 328.068 Recovery = 112.48%								
Al 308.215†	9496339.4	539.07	mg/L	0.630	539.07	mg/L	0.630	0.12%
QC value within limits for Al 308.215 Recovery = 107.81%								
As 188.979†	36.3	0.10409	mg/L	0.011352	0.10409	mg/L	0.011352	10.91%
QC value within limits for As 188.979 Recovery = 104.09%								
Ba 233.527†	34471.5	0.54434	mg/L	0.012729	0.54434	mg/L	0.012729	2.34%
QC value within limits for Ba 233.527 Recovery = 108.87%								
Be 313.107†	954930.7	0.50825	mg/L	0.000998	0.50825	mg/L	0.000998	0.20%
QC value within limits for Be 313.107 Recovery = 101.65%								
Co 228.616†	11166.3	0.47315	mg/L	0.001353	0.47315	mg/L	0.001353	0.29%
QC value within limits for Co 228.616 Recovery = 94.63%								
Cr 267.716†	28091.5	0.50943	mg/L	0.012406	0.50943	mg/L	0.012406	2.44%
QC value within limits for Cr 267.716 Recovery = 101.89%								
Cu 324.752†	109985.0	0.55157	mg/L	0.012326	0.55157	mg/L	0.012326	2.23%
QC value within limits for Cu 324.752 Recovery = 110.31%								
Fe 273.955†	3502984.0	196.57	mg/L	0.096	196.57	mg/L	0.096	0.05%
QC value within limits for Fe 273.955 Recovery = 98.29%								
Mg 279.077†	6332494.1	507.49	mg/L	0.590	507.49	mg/L	0.590	0.12%
QC value within limits for Mg 279.077 Recovery = 101.50%								
Mn 257.610†	210472.0	0.52078	mg/L	0.012503	0.52078	mg/L	0.012503	2.40%
QC value within limits for Mn 257.610 Recovery = 104.16%								
Ni 231.604†	17605.4	0.96222	mg/L	0.020937	0.96222	mg/L	0.020937	2.18%
QC value within limits for Ni 231.604 Recovery = 96.22%								
Pb 220.353†	1463.1	0.50339	mg/L	0.000515	0.50339	mg/L	0.000515	0.10%
QC value within limits for Pb 220.353 Recovery = 100.68%								
Sb 206.836†	686.4	0.63819	mg/L	0.004504	0.63819	mg/L	0.004504	0.71%
QC value within limits for Sb 206.836 Recovery = 106.37%								
Se 196.026†	202.0	0.51431	mg/L	0.005531	0.51431	mg/L	0.005531	1.08%
QC value within limits for Se 196.026 Recovery = 102.86%								
Tl 190.801†	32.2	0.08724	mg/L	0.009061	0.08724	mg/L	0.009061	10.39%
QC value within limits for Tl 190.801 Recovery = 87.24%								
V 292.402†	51221.5	0.51792	mg/L	0.012065	0.51792	mg/L	0.012065	2.33%
QC value within limits for V 292.402 Recovery = 103.58%								
Zn 206.200†	15750.9	0.98855	mg/L	0.021491	0.98855	mg/L	0.021491	2.17%
QC value within limits for Zn 206.200 Recovery = 98.86%								
Cd 226.502†	31428.2	0.99746	mg/L	0.027922	0.99746	mg/L	0.027922	2.80%
QC value within limits for Cd 226.502 Recovery = 99.75%								
Ti 334.940†	-1641.1	0.00259	mg/L	0.000202	0.00259	mg/L	0.000202	7.77%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	75606.2	557.21	mg/L	13.289	557.21	mg/L	13.289	2.38%
QC value within limits for Ca 227.546 Recovery = 111.44%								
Na 589.592	144568.3	25.492	mg/L	0.3340	25.492	mg/L	0.3340	1.31%
QC value within limits for Na 589.592 Recovery = 101.97%								
K 766.490	47772.9	25.897	mg/L	0.3752	25.897	mg/L	0.3752	1.45%
QC value within limits for K 766.490 Recovery = 103.59%								

All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/24/2014 9:28:04 AM**

Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:03 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1550051.2	96.172	%	1.0086				1.05%
Lu 261.542	922603.8	97.40	%	1.009				1.04%
Ag 328.068†	186827.4	1.3312	mg/L	0.00366	1.3312	mg/L	0.00366	0.27%
QC value within limits for Ag 328.068 Recovery = 106.50%								
Al 308.215†	189154.8	10.683	mg/L	0.0156	10.683	mg/L	0.0156	0.15%
QC value within limits for Al 308.215 Recovery = 106.83%								
As 188.979†	356.6	0.53828	mg/L	0.001457	0.53828	mg/L	0.001457	0.27%
QC value within limits for As 188.979 Recovery = 107.66%								
Ba 233.527†	679154.5	10.711	mg/L	0.0231	10.711	mg/L	0.0231	0.22%
QC value within limits for Ba 233.527 Recovery = 107.11%								
Be 313.107†	490963.1	0.26249	mg/L	0.000671	0.26249	mg/L	0.000671	0.26%
QC value within limits for Be 313.107 Recovery = 105.00%								
Co 228.616†	61025.2	2.5851	mg/L	0.04622	2.5851	mg/L	0.04622	1.79%
QC value within limits for Co 228.616 Recovery = 103.40%								
Cr 267.716†	57333.8	1.0396	mg/L	0.01868	1.0396	mg/L	0.01868	1.80%
QC value within limits for Cr 267.716 Recovery = 103.96%								
Cu 324.752†	267544.9	1.2992	mg/L	0.00383	1.2992	mg/L	0.00383	0.29%
QC value within limits for Cu 324.752 Recovery = 103.93%								
Fe 273.955†	94035.2	5.2773	mg/L	0.08763	5.2773	mg/L	0.08763	1.66%
QC value within limits for Fe 273.955 Recovery = 105.55%								
Mg 279.077†	341882.7	27.393	mg/L	0.0055	27.393	mg/L	0.0055	0.02%
QC value within limits for Mg 279.077 Recovery = 109.57%								
Mn 257.610†	1080853.0	2.6744	mg/L	0.00252	2.6744	mg/L	0.00252	0.09%
QC value within limits for Mn 257.610 Recovery = 106.98%								
Ni 231.604†	49005.8	2.6779	mg/L	0.05093	2.6779	mg/L	0.05093	1.90%
QC value within limits for Ni 231.604 Recovery = 107.12%								
Pb 220.353†	1681.0	0.53239	mg/L	0.008281	0.53239	mg/L	0.008281	1.56%
QC value within limits for Pb 220.353 Recovery = 106.48%								
Sb 206.836†	530.8	0.50009	mg/L	0.005853	0.50009	mg/L	0.005853	1.17%
QC value within limits for Sb 206.836 Recovery = 100.02%								
Se 196.026†	241.1	0.52761	mg/L	0.002291	0.52761	mg/L	0.002291	0.43%
QC value within limits for Se 196.026 Recovery = 105.52%								
Tl 190.801†	424.6	0.49964	mg/L	0.011118	0.49964	mg/L	0.011118	2.23%
QC value within limits for Tl 190.801 Recovery = 99.93%								
V 292.402†	267238.9	2.6637	mg/L	0.00785	2.6637	mg/L	0.00785	0.29%
QC value within limits for V 292.402 Recovery = 106.55%								
Zn 206.200†	43096.3	2.7280	mg/L	0.04951	2.7280	mg/L	0.04951	1.81%
QC value within limits for Zn 206.200 Recovery = 109.12%								
Cd 226.502†	8235.5	0.26526	mg/L	0.004446	0.26526	mg/L	0.004446	1.68%
QC value within limits for Cd 226.502 Recovery = 106.11%								
Ti 334.940†	274369.3	0.52032	mg/L	0.002129	0.52032	mg/L	0.002129	0.41%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	3464.5	24.768	mg/L	0.1392	24.768	mg/L	0.1392	0.56%
QC value within limits for Ca 227.546 Recovery = 99.07%								
Na 589.592	152247.2	26.846	mg/L	0.5054	26.846	mg/L	0.5054	1.88%
QC value within limits for Na 589.592 Recovery = 107.38%								
K 766.490	48984.6	26.554	mg/L	0.5675	26.554	mg/L	0.5675	2.14%
QC value within limits for K 766.490 Recovery = 106.21%								

All analyte(s) passed QC.

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Sequence No.: 12 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/24/2014 9:31:44 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:04 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD

Y 360.073	1620419.4	100.54 %	0.685					0.68%
Lu 261.542	956403.9	101.0 %	0.61					0.60%
Ag 328.068†	46.9	0.00033 mg/L	0.000269	0.00033	mg/L	0.000269		80.63%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	320.0	0.01816 mg/L	0.008128	0.01816	mg/L	0.008128		44.77%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.3	0.00344 mg/L	0.004944	0.00344	mg/L	0.004944		143.64%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	39.5	0.00062 mg/L	0.000216	0.00062	mg/L	0.000216		34.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	11.6	0.00001 mg/L	0.000018	0.00001	mg/L	0.000018		282.15%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	8.0	0.00034 mg/L	0.000071	0.00034	mg/L	0.000071		20.73%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	0.9	0.00002 mg/L	0.000126	0.00002	mg/L	0.000126		747.44%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	255.4	0.00124 mg/L	0.000330	0.00124	mg/L	0.000330		26.63%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	69.2	0.00388 mg/L	0.002736	0.00388	mg/L	0.002736		70.46%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	259.4	0.02079 mg/L	0.008516	0.02079	mg/L	0.008516		40.96%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	5.8	0.00001 mg/L	0.000022	0.00001	mg/L	0.000022		149.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	15.5	0.00085 mg/L	0.000146	0.00085	mg/L	0.000146		17.24%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	2.8	0.00087 mg/L	0.001488	0.00087	mg/L	0.001488		171.18%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	5.7	0.00545 mg/L	0.007833	0.00545	mg/L	0.007833		143.70%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.8	0.00401 mg/L	0.001534	0.00401	mg/L	0.001534		38.29%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-0.6	-0.00078 mg/L	0.003492	-0.00078	mg/L	0.003492		444.95%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	13.0	0.00013 mg/L	0.000273	0.00013	mg/L	0.000273		210.36%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	16.9	0.00107 mg/L	0.000076	0.00107	mg/L	0.000076		7.15%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	-0.4	-0.00001 mg/L	0.000091	-0.00001	mg/L	0.000091		776.50%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	65.9	0.00013 mg/L	0.000136	0.00013	mg/L	0.000136		108.52%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	5.3	0.03870 mg/L	0.045203	0.03870	mg/L	0.045203		116.81%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Na 589.592	361.0	0.06366 mg/L	0.009213	0.06366	mg/L	0.009213		14.47%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490	108.4	0.05878 mg/L	0.043938	0.05878	mg/L	0.043938		74.75%
QC value within limits for K 766.490 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 13 **Autosampler Location: 38**
Sample ID: MB-79661~PBW **Date Collected: 10/24/2014 9:35:23 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:04 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-79661~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1661501.1	103.09	%	0.805				0.78%
Lu 261.542	981193.8	103.6	%	0.85				0.83%
Ag 328.068†	78.6	0.00056	mg/L	0.000318	0.00056	mg/L	0.000318	56.82%
Al 308.215†	-117.1	-0.00665	mg/L	0.007821	-0.00665	mg/L	0.007821	117.70%
As 188.979†	3.7	0.00546	mg/L	0.003885	0.00546	mg/L	0.003885	71.12%
Ba 233.527†	13.5	0.00021	mg/L	0.000079	0.00021	mg/L	0.000079	37.19%
Be 313.107†	25.7	0.00001	mg/L	0.000023	0.00001	mg/L	0.000023	167.86%
Co 228.616†	4.3	0.00018	mg/L	0.000413	0.00018	mg/L	0.000413	227.92%
Cr 267.716†	0.1	0.00000	mg/L	0.000129	0.00000	mg/L	0.000129	>999.9%

Cu 324.752†	101.4	0.00049	mg/L	0.000069	0.00049	mg/L	0.000069 14.04%
Fe 273.955†	27.4	0.00154	mg/L	0.000379	0.00154	mg/L	0.000379 24.69%
Mg 279.077†	108.0	0.00865	mg/L	0.003515	0.00865	mg/L	0.003515 40.63%
Mn 257.610†	19.9	0.00005	mg/L	0.000033	0.00005	mg/L	0.000033 66.16%
Ni 231.604†	17.6	0.00096	mg/L	0.000815	0.00096	mg/L	0.000815 84.45%
Pb 220.353†	0.9	0.00029	mg/L	0.002086	0.00029	mg/L	0.002086 725.38%
Sb 206.836†	-2.2	-0.00209	mg/L	0.000612	-0.00209	mg/L	0.000612 29.26%
Se 196.026†	-2.1	-0.00461	mg/L	0.003779	-0.00461	mg/L	0.003779 82.03%
Tl 190.801†	-2.5	-0.00317	mg/L	0.007575	-0.00317	mg/L	0.007575 238.70%
V 292.402†	-39.7	-0.00040	mg/L	0.000180	-0.00040	mg/L	0.000180 45.56%
Zn 206.200†	200.1	0.01265	mg/L	0.000244	0.01265	mg/L	0.000244 1.93%
Cd 226.502†	-1.6	-0.00005	mg/L	0.000133	-0.00005	mg/L	0.000133 261.75%
Ti 334.940†	39.8	0.00008	mg/L	0.000142	0.00008	mg/L	0.000142 186.85%
Ca 227.546†	0.5	0.00327	mg/L	0.062776	0.00327	mg/L	0.062776 >999.9%
Na 589.592	309.4	0.05456	mg/L	0.009188	0.05456	mg/L	0.009188 16.84%
K 766.490	52.8	0.02860	mg/L	0.032146	0.02860	mg/L	0.032146 112.40%

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Sequence No.: 14 **Autosampler Location: 39**
Sample ID: LCS-79661~LCS **Date Collected: 10/24/2014 9:39:01 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:05 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-79661~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1646970.8	102.19	%	1.600				1.57%
Lu 261.542	977838.0	103.2	%	1.71				1.65%
Ag 328.068†	7458.3	0.05323	mg/L	0.001247	0.05323	mg/L	0.001247	2.34%
Al 308.215†	34958.8	1.9738	mg/L	0.08010	1.9738	mg/L	0.08010	4.06%
As 188.979†	30.5	0.04747	mg/L	0.002320	0.04747	mg/L	0.002320	4.89%
Ba 233.527†	139359.4	2.1979	mg/L	0.02888	2.1979	mg/L	0.02888	1.31%
Be 313.107†	102388.3	0.05451	mg/L	0.000807	0.05451	mg/L	0.000807	1.48%
Co 228.616†	12894.1	0.54645	mg/L	0.018914	0.54645	mg/L	0.018914	3.46%
Cr 267.716†	11895.9	0.21569	mg/L	0.007291	0.21569	mg/L	0.007291	3.38%
Cu 324.752†	51208.8	0.24868	mg/L	0.007985	0.24868	mg/L	0.007985	3.21%
Fe 273.955†	19892.7	1.1164	mg/L	0.03513	1.1164	mg/L	0.03513	3.15%
Mg 279.077†	66504.3	5.3286	mg/L	0.19286	5.3286	mg/L	0.19286	3.62%
Mn 257.610†	228152.5	0.56452	mg/L	0.008374	0.56452	mg/L	0.008374	1.48%
Ni 231.604†	10111.0	0.55260	mg/L	0.019482	0.55260	mg/L	0.019482	3.53%
Pb 220.353†	66.7	0.02132	mg/L	0.000680	0.02132	mg/L	0.000680	3.19%
Sb 206.836†	105.0	0.09856	mg/L	0.007766	0.09856	mg/L	0.007766	7.88%
Se 196.026†	22.5	0.04922	mg/L	0.009236	0.04922	mg/L	0.009236	18.76%
Tl 190.801†	44.5	0.04937	mg/L	0.005981	0.04937	mg/L	0.005981	12.11%
V 292.402†	52341.6	0.52184	mg/L	0.017704	0.52184	mg/L	0.017704	3.39%
Zn 206.200†	8944.8	0.56621	mg/L	0.020423	0.56621	mg/L	0.020423	3.61%
Cd 226.502†	1740.3	0.05605	mg/L	0.000838	0.05605	mg/L	0.000838	1.49%
Ti 334.940†	111.9	0.00023	mg/L	0.000053	0.00023	mg/L	0.000053	23.02%
Ca 227.546†	663.7	4.7374	mg/L	0.02547	4.7374	mg/L	0.02547	0.54%
Na 589.592	32279.8	5.6919	mg/L	0.03815	5.6919	mg/L	0.03815	0.67%
K 766.490	10410.0	5.6431	mg/L	0.00539	5.6431	mg/L	0.00539	0.10%

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Sequence No.: 15 **Autosampler Location: 40**
Sample ID: LCSD-79661~LCSD **Date Collected: 10/24/2014 9:42:39 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:06 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCSD-79661~LCSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1618928.3	100.45	%	0.890				0.89%
Lu 261.542	960798.3	101.4	%	0.84				0.83%
Ag 328.068†	7672.0	0.05476	mg/L	0.000998	0.05476	mg/L	0.000998	1.82%
Al 308.215†	36818.2	2.0789	mg/L	0.03179	2.0789	mg/L	0.03179	1.53%

As 188.979†	30.4	0.04740	mg/L	0.004182	0.04740	mg/L	0.004182	8.82%
Ba 233.527†	140709.6	2.2192	mg/L	0.01016	2.2192	mg/L	0.01016	0.46%
Be 313.107†	103381.4	0.05504	mg/L	0.000029	0.05504	mg/L	0.000029	0.05%
Co 228.616†	13461.8	0.57050	mg/L	0.008219	0.57050	mg/L	0.008219	1.44%
Cr 267.716†	12440.3	0.22557	mg/L	0.003283	0.22557	mg/L	0.003283	1.46%
Cu 324.752†	53345.6	0.25905	mg/L	0.003310	0.25905	mg/L	0.003310	1.28%
Fe 273.955†	20726.8	1.1632	mg/L	0.01679	1.1632	mg/L	0.01679	1.44%
Mg 279.077†	69683.0	5.5833	mg/L	0.06986	5.5833	mg/L	0.06986	1.25%
Mn 257.610†	230647.5	0.57070	mg/L	0.003212	0.57070	mg/L	0.003212	0.56%
Ni 231.604†	10568.7	0.57761	mg/L	0.007780	0.57761	mg/L	0.007780	1.35%
Pb 220.353†	71.5	0.02286	mg/L	0.000803	0.02286	mg/L	0.000803	3.51%
Sb 206.836†	109.5	0.10276	mg/L	0.002774	0.10276	mg/L	0.002774	2.70%
Se 196.026†	26.4	0.05774	mg/L	0.006456	0.05774	mg/L	0.006456	11.18%
Tl 190.801†	48.8	0.05448	mg/L	0.006349	0.05448	mg/L	0.006349	11.65%
V 292.402†	54618.8	0.54455	mg/L	0.007041	0.54455	mg/L	0.007041	1.29%
Zn 206.200†	9355.9	0.59223	mg/L	0.005339	0.59223	mg/L	0.005339	0.90%
Cd 226.502†	1832.6	0.05902	mg/L	0.000375	0.05902	mg/L	0.000375	0.64%
Ti 334.940†	111.3	0.00023	mg/L	0.000032	0.00023	mg/L	0.000032	13.69%
Ca 227.546†	695.8	4.9666	mg/L	0.04140	4.9666	mg/L	0.04140	0.83%
Na 589.592	31853.8	5.6168	mg/L	0.08057	5.6168	mg/L	0.08057	1.43%
K 766.490	10184.3	5.5208	mg/L	0.07830	5.5208	mg/L	0.07830	1.42%

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Sequence No.: 16 **Autosampler Location: 41**
Sample ID: N1922-01A~ET-01-101414-C **Date Collected: 10/24/2014 9:46:17 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:06 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1922-01A~ET-01-101414-C

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1587042.5	98.467	%	1.0048				1.02%
Lu 261.542	941623.6	99.40	%	1.106				1.11%
Ag 328.068†	43.2	0.00032	mg/L	0.000282	0.00032	mg/L	0.000282	87.36%
Al 308.215†	511.8	0.02042	mg/L	0.011221	0.02042	mg/L	0.011221	54.96%
As 188.979†	-1.3	0.00006	mg/L	0.007297	0.00006	mg/L	0.007297	>999.9%
Ba 233.527†	4118.2	0.06492	mg/L	0.001037	0.06492	mg/L	0.001037	1.60%
Be 313.107†	-4.7	0.00000	mg/L	0.000015	0.00000	mg/L	0.000015	446.80%
Co 228.616†	20.5	0.00087	mg/L	0.000113	0.00087	mg/L	0.000113	13.06%
Cr 267.716†	37.1	0.00057	mg/L	0.000251	0.00057	mg/L	0.000251	43.58%
Cu 324.752†	602.6	0.00332	mg/L	0.000555	0.00332	mg/L	0.000555	16.72%
Fe 273.955†	77706.1	4.3619	mg/L	0.13034	4.3619	mg/L	0.13034	2.99%
Mg 279.077†	82774.9	6.6336	mg/L	0.19842	6.6336	mg/L	0.19842	2.99%
Mn 257.610†	67126.5	0.16609	mg/L	0.005009	0.16609	mg/L	0.005009	3.02%
Ni 231.604†	28.3	0.00155	mg/L	0.000291	0.00155	mg/L	0.000291	18.77%
Pb 220.353†	1.9	0.00075	mg/L	0.002004	0.00075	mg/L	0.002004	266.93%
Sb 206.836†	-2.0	-0.00195	mg/L	0.004137	-0.00195	mg/L	0.004137	212.13%
Se 196.026†	-2.2	-0.00311	mg/L	0.009459	-0.00311	mg/L	0.009459	304.00%
Tl 190.801†	-1.4	-0.00069	mg/L	0.006216	-0.00069	mg/L	0.006216	897.17%
V 292.402†	103.8	0.00119	mg/L	0.000425	0.00119	mg/L	0.000425	35.81%
Zn 206.200†	251.7	0.01591	mg/L	0.000292	0.01591	mg/L	0.000292	1.84%
Cd 226.502†	4.7	-0.00013	mg/L	0.000074	-0.00013	mg/L	0.000074	57.54%
Ti 334.940†	-249.8	0.00017	mg/L	0.000082	0.00017	mg/L	0.000082	49.25%
Ca 227.546†	5537.1	40.615	mg/L	0.5393	40.615	mg/L	0.5393	1.33%
Na 589.592	78378.4	13.821	mg/L	0.2230	13.821	mg/L	0.2230	1.61%
K 766.490	12372.1	6.7067	mg/L	0.12722	6.7067	mg/L	0.12722	1.90%

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Sequence No.: 17 **Autosampler Location: 42**
Sample ID: N1922-01ASD~ET-01-1014 **Date Collected: 10/24/2014 9:49:55 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:07 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1922-01ASD~ET-01-1014

Analyte	Mean Corrected	Calib.			Sample			

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	1576317.0	97.802	%	1.2431				1.27%
Lu 261.542	933069.1	98.50	%	1.275				1.29%
Ag 328.068†	-26.6	-0.00019	mg/L	0.000536	-0.00019	mg/L	0.000536	287.77%
Al 308.215†	294.0	0.01495	mg/L	0.008925	0.01495	mg/L	0.008925	59.72%
As 188.979†	0.1	0.00060	mg/L	0.001193	0.00060	mg/L	0.001193	199.74%
Ba 233.527†	852.4	0.01344	mg/L	0.000092	0.01344	mg/L	0.000092	0.68%
Be 313.107†	10.0	0.00001	mg/L	0.000019	0.00001	mg/L	0.000019	374.10%
Co 228.616†	0.4	0.00002	mg/L	0.000186	0.00002	mg/L	0.000186	>999.9%
Cr 267.716†	-0.4	-0.00003	mg/L	0.000042	-0.00003	mg/L	0.000042	153.93%
Cu 324.752†	242.2	0.00126	mg/L	0.000712	0.00126	mg/L	0.000712	56.61%
Fe 273.955†	16262.4	0.91286	mg/L	0.018981	0.91286	mg/L	0.018981	2.08%
Mg 279.077†	17419.1	1.3960	mg/L	0.02377	1.3960	mg/L	0.02377	1.70%
Mn 257.610†	14096.0	0.03488	mg/L	0.000883	0.03488	mg/L	0.000883	2.53%
Ni 231.604†	19.3	0.00106	mg/L	0.000424	0.00106	mg/L	0.000424	40.02%
Pb 220.353†	3.1	0.00101	mg/L	0.000958	0.00101	mg/L	0.000958	95.25%
Sb 206.836†	-4.5	-0.00434	mg/L	0.001736	-0.00434	mg/L	0.001736	40.04%
Se 196.026†	-0.7	-0.00111	mg/L	0.003821	-0.00111	mg/L	0.003821	345.01%
Tl 190.801†	-5.3	-0.00637	mg/L	0.002676	-0.00637	mg/L	0.002676	42.00%
V 292.402†	22.9	0.00026	mg/L	0.000259	0.00026	mg/L	0.000259	99.71%
Zn 206.200†	60.1	0.00380	mg/L	0.000255	0.00380	mg/L	0.000255	6.72%
Cd 226.502†	-6.1	-0.00026	mg/L	0.000115	-0.00026	mg/L	0.000115	44.96%
Ti 334.940†	-80.4	-0.00002	mg/L	0.000040	-0.00002	mg/L	0.000040	177.76%
Ca 227.546†	1114.9	8.1781	mg/L	0.09888	8.1781	mg/L	0.09888	1.21%
Na 589.592	16192.6	2.8553	mg/L	0.05516	2.8553	mg/L	0.05516	1.93%
K 766.490	2466.4	1.3370	mg/L	0.07525	1.3370	mg/L	0.07525	5.63%

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Sequence No.: 18 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/24/2014 9:53:33 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:08 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1551021.1	96.233	%	1.1818				1.23%
Lu 261.542	922382.3	97.37	%	1.395				1.43%
Ag 328.068†	184287.4	1.3131	mg/L	0.00096	1.3131	mg/L	0.00096	0.07%
QC value within limits for Ag 328.068 Recovery = 105.05%								
Al 308.215†	186122.5	10.512	mg/L	0.0383	10.512	mg/L	0.0383	0.36%
QC value within limits for Al 308.215 Recovery = 105.12%								
As 188.979†	353.0	0.53283	mg/L	0.002067	0.53283	mg/L	0.002067	0.39%
QC value within limits for As 188.979 Recovery = 106.57%								
Ba 233.527†	667320.3	10.525	mg/L	0.0382	10.525	mg/L	0.0382	0.36%
QC value within limits for Ba 233.527 Recovery = 105.25%								
Be 313.107†	484832.4	0.25921	mg/L	0.000326	0.25921	mg/L	0.000326	0.13%
QC value within limits for Be 313.107 Recovery = 103.68%								
Co 228.616†	61235.7	2.5940	mg/L	0.04415	2.5940	mg/L	0.04415	1.70%
QC value within limits for Co 228.616 Recovery = 103.76%								
Cr 267.716†	57394.9	1.0407	mg/L	0.01717	1.0407	mg/L	0.01717	1.65%
QC value within limits for Cr 267.716 Recovery = 104.07%								
Cu 324.752†	264217.6	1.2830	mg/L	0.00233	1.2830	mg/L	0.00233	0.18%
QC value within limits for Cu 324.752 Recovery = 102.64%								
Fe 273.955†	94108.1	5.2814	mg/L	0.09315	5.2814	mg/L	0.09315	1.76%
QC value within limits for Fe 273.955 Recovery = 105.63%								
Mg 279.077†	334562.5	26.807	mg/L	0.1637	26.807	mg/L	0.1637	0.61%
QC value within limits for Mg 279.077 Recovery = 107.23%								
Mn 257.610†	1068181.8	2.6430	mg/L	0.01360	2.6430	mg/L	0.01360	0.51%
QC value within limits for Mn 257.610 Recovery = 105.72%								
Ni 231.604†	49013.6	2.6783	mg/L	0.04776	2.6783	mg/L	0.04776	1.78%
QC value within limits for Ni 231.604 Recovery = 107.13%								
Pb 220.353†	1659.1	0.52547	mg/L	0.006236	0.52547	mg/L	0.006236	1.19%
QC value within limits for Pb 220.353 Recovery = 105.09%								
Sb 206.836†	526.9	0.49627	mg/L	0.005781	0.49627	mg/L	0.005781	1.16%
QC value within limits for Sb 206.836 Recovery = 99.25%								
Se 196.026†	236.9	0.51857	mg/L	0.001090	0.51857	mg/L	0.001090	0.21%
QC value within limits for Se 196.026 Recovery = 103.71%								

Tl 190.801†	415.6	0.48853 mg/L	0.004512	0.48853 mg/L	0.004512	0.92%
QC value within limits for Tl 190.801 Recovery = 97.71%						
V 292.402†	263322.8	2.6247 mg/L	0.00753	2.6247 mg/L	0.00753	0.29%
QC value within limits for V 292.402 Recovery = 104.99%						
Zn 206.200†	43081.5	2.7271 mg/L	0.05542	2.7271 mg/L	0.05542	2.03%
QC value within limits for Zn 206.200 Recovery = 109.08%						
Cd 226.502†	8261.7	0.26611 mg/L	0.005415	0.26611 mg/L	0.005415	2.03%
QC value within limits for Cd 226.502 Recovery = 106.44%						
Ti 334.940†	270199.0	0.51241 mg/L	0.001256	0.51241 mg/L	0.001256	0.25%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	3422.3	24.461 mg/L	0.2326	24.461 mg/L	0.2326	0.95%
QC value within limits for Ca 227.546 Recovery = 97.84%						
Na 589.592	149470.9	26.356 mg/L	0.2730	26.356 mg/L	0.2730	1.04%
QC value within limits for Na 589.592 Recovery = 105.43%						
K 766.490	48112.4	26.081 mg/L	0.2646	26.081 mg/L	0.2646	1.01%
QC value within limits for K 766.490 Recovery = 104.32%						

All analyte(s) passed QC.

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Sequence No.: 19 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/24/2014 9:57:13 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:09 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1595907.8	99.018	%	0.6744				0.68%
Lu 261.542	941150.1	99.35	%	0.674				0.68%
Ag 328.068†	90.1	0.00064	mg/L	0.000140	0.00064	mg/L	0.000140	21.76%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	281.7	0.01599	mg/L	0.008045	0.01599	mg/L	0.008045	50.33%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.1	0.00163	mg/L	0.001741	0.00163	mg/L	0.001741	106.79%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	66.4	0.00105	mg/L	0.000379	0.00105	mg/L	0.000379	36.20%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-30.7	-0.00002	mg/L	0.000046	-0.00002	mg/L	0.000046	288.07%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	3.6	0.00015	mg/L	0.000027	0.00015	mg/L	0.000027	17.76%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-0.6	-0.00001	mg/L	0.000112	-0.00001	mg/L	0.000112	964.02%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	287.3	0.00139	mg/L	0.000139	0.00139	mg/L	0.000139	9.96%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	5.5	0.00031	mg/L	0.000756	0.00031	mg/L	0.000756	247.18%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	69.6	0.00558	mg/L	0.004856	0.00558	mg/L	0.004856	87.03%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	18.7	0.00005	mg/L	0.000011	0.00005	mg/L	0.000011	23.44%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	18.3	0.00100	mg/L	0.000315	0.00100	mg/L	0.000315	31.48%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	2.9	0.00091	mg/L	0.001977	0.00091	mg/L	0.001977	216.26%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	4.0	0.00383	mg/L	0.002709	0.00383	mg/L	0.002709	70.68%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.9	-0.00187	mg/L	0.006280	-0.00187	mg/L	0.006280	335.35%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-1.9	-0.00239	mg/L	0.001988	-0.00239	mg/L	0.001988	83.08%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	7.8	0.00008	mg/L	0.000415	0.00008	mg/L	0.000415	537.10%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	10.8	0.00068	mg/L	0.000185	0.00068	mg/L	0.000185	26.98%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	0.6	0.00002	mg/L	0.000136	0.00002	mg/L	0.000136	651.82%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	57.3	0.00011	mg/L	0.000066	0.00011	mg/L	0.000066	60.43%

QC value within limits for Ti 334.940 Recovery = Not calculated

Ca 227.546†	7.8	0.05681	mg/L	0.032656	0.05681	mg/L	0.032656 57.48%

QC value within limits for Ca 227.546 Recovery = Not calculated

Na 589.592	267.5	0.04716	mg/L	0.012981	0.04716	mg/L	0.012981 27.52%

QC value within limits for Na 589.592 Recovery = Not calculated

K 766.490	149.0	0.08079	mg/L	0.014917	0.08079	mg/L	0.014917 18.46%

QC value within limits for K 766.490 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 20 **Autosampler Location: 43**
Sample ID: MB-79662~PBS **Date Collected: 10/24/2014 10:00:52 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:09 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-79662~PBS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1627477.8	100.98	%	2.400				2.38%
Lu 261.542	964766.1	101.8	%	2.65				2.61%
Ag 328.068†	164.1	0.00117	mg/L	0.000394	0.00117	mg/L	0.000394	33.68%
Al 308.215†	-9.5	-0.00055	mg/L	0.010467	-0.00055	mg/L	0.010467	>999.9%
As 188.979†	-0.1	-0.00009	mg/L	0.001256	-0.00009	mg/L	0.001256	>999.9%
Ba 233.527†	18.7	0.00029	mg/L	0.000078	0.00029	mg/L	0.000078	26.42%
Be 313.107†	21.4	0.00001	mg/L	0.000014	0.00001	mg/L	0.000014	122.92%
Co 228.616†	-0.2	-0.00001	mg/L	0.000127	-0.00001	mg/L	0.000127	>999.9%
Cr 267.716†	35.4	0.00064	mg/L	0.000149	0.00064	mg/L	0.000149	23.22%
Cu 324.752†	440.7	0.00214	mg/L	0.000183	0.00214	mg/L	0.000183	8.54%
Fe 273.955†	383.8	0.02155	mg/L	0.000724	0.02155	mg/L	0.000724	3.36%
Mg 279.077†	149.0	0.01193	mg/L	0.002585	0.01193	mg/L	0.002585	21.66%
Mn 257.610†	334.8	0.00083	mg/L	0.000036	0.00083	mg/L	0.000036	4.33%
Ni 231.604†	7.2	0.00040	mg/L	0.000539	0.00040	mg/L	0.000539	135.94%
Pb 220.353†	2.6	0.00083	mg/L	0.001957	0.00083	mg/L	0.001957	237.09%
Sb 206.836†	7.6	0.00728	mg/L	0.001886	0.00728	mg/L	0.001886	25.91%
Se 196.026†	-0.1	-0.00025	mg/L	0.000939	-0.00025	mg/L	0.000939	375.30%
Tl 190.801†	-3.5	-0.00437	mg/L	0.006048	-0.00437	mg/L	0.006048	138.32%
V 292.402†	-17.2	-0.00017	mg/L	0.000277	-0.00017	mg/L	0.000277	162.29%
Zn 206.200†	13.0	0.00082	mg/L	0.000355	0.00082	mg/L	0.000355	43.14%
Cd 226.502†	-7.7	-0.00025	mg/L	0.000186	-0.00025	mg/L	0.000186	75.06%
Ti 334.940†	67.3	0.00013	mg/L	0.000046	0.00013	mg/L	0.000046	35.53%
Ca 227.546†	11.6	0.08543	mg/L	0.060065	0.08543	mg/L	0.060065	70.31%
Na 589.592	374.3	0.06600	mg/L	0.005909	0.06600	mg/L	0.005909	8.95%
K 766.490	46.2	0.02502	mg/L	0.009755	0.02502	mg/L	0.009755	38.99%

Sequence No.: 21 **Autosampler Location: 44**
Sample ID: LCS-79662~LCS **Date Collected: 10/24/2014 10:04:30 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:10 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-79662~LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1550956.4	96.229	%	0.8296				0.86%
Lu 261.542	922843.3	97.42	%	0.813				0.83%
Ag 328.068†	166286.0	1.1848	mg/L	0.00500	1.1848	mg/L	0.00500	0.42%
Al 308.215†	161471.1	9.1181	mg/L	0.05465	9.1181	mg/L	0.05465	0.60%
As 188.979†	352.2	0.53059	mg/L	0.004264	0.53059	mg/L	0.004264	0.80%
Ba 233.527†	604826.9	9.5390	mg/L	0.04172	9.5390	mg/L	0.04172	0.44%
Be 313.107†	435896.6	0.23209	mg/L	0.000498	0.23209	mg/L	0.000498	0.21%
Co 228.616†	56336.2	2.3875	mg/L	0.06288	2.3875	mg/L	0.06288	2.63%
Cr 267.716†	53421.3	0.96867	mg/L	0.027004	0.96867	mg/L	0.027004	2.79%
Cu 324.752†	240253.8	1.1666	mg/L	0.00328	1.1666	mg/L	0.00328	0.28%
Fe 273.955†	87409.5	4.9056	mg/L	0.13628	4.9056	mg/L	0.13628	2.78%
Mg 279.077†	295096.5	23.644	mg/L	0.1102	23.644	mg/L	0.1102	0.47%

Mn 257.610†	972578.2	2.4065	mg/L	0.01098	2.4065	mg/L	0.01098	0.46%
Ni 231.604†	43610.5	2.3833	mg/L	0.06175	2.3833	mg/L	0.06175	2.59%
Pb 220.353†	1683.9	0.53264	mg/L	0.003779	0.53264	mg/L	0.003779	0.71%
Sb 206.836†	559.2	0.52665	mg/L	0.006233	0.52665	mg/L	0.006233	1.18%
Se 196.026†	223.5	0.48930	mg/L	0.005873	0.48930	mg/L	0.005873	1.20%
Tl 190.801†	416.6	0.49278	mg/L	0.009917	0.49278	mg/L	0.009917	2.01%
V 292.402†	235657.2	2.3495	mg/L	0.00919	2.3495	mg/L	0.00919	0.39%
Zn 206.200†	37433.9	2.3698	mg/L	0.06451	2.3698	mg/L	0.06451	2.72%
Cd 226.502†	8344.2	0.26868	mg/L	0.006626	0.26868	mg/L	0.006626	2.47%
Ti 334.940†	514.2	0.00104	mg/L	0.000112	0.00104	mg/L	0.000112	10.84%
Ca 227.546†	3091.3	22.098	mg/L	0.1369	22.098	mg/L	0.1369	0.62%
Na 589.592	134859.0	23.780	mg/L	0.2523	23.780	mg/L	0.2523	1.06%
K 766.490	43486.4	23.573	mg/L	0.2631	23.573	mg/L	0.2631	1.12%

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Sequence No.: 22 **Autosampler Location: 45**
Sample ID: N1943-01B~(211) TR-1 (13 **Date Collected: 10/24/2014 10:08:09 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:11 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-01B~(211) TR-1 (13

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1682532.3	104.39	%	1.030				0.99%
Lu 261.542	889713.1	93.92	%	0.842				0.90%
Ag 328.068†	-592.8	-0.00432	mg/L	0.000227	-0.00432	mg/L	0.000227	5.25%
Al 308.215†	1868405.3	105.96	mg/L	0.265	105.96	mg/L	0.265	0.25%
As 188.979†	120.6	0.22872	mg/L	0.008830	0.22872	mg/L	0.008830	3.86%
Ba 233.527†	57766.1	0.91099	mg/L	0.024282	0.91099	mg/L	0.024282	2.67%
Be 313.107†	6548.2	0.00478	mg/L	0.000113	0.00478	mg/L	0.000113	2.37%
Co 228.616†	2193.9	0.09158	mg/L	0.001184	0.09158	mg/L	0.001184	1.29%
Cr 267.716†	7632.8	0.12923	mg/L	0.001596	0.12923	mg/L	0.001596	1.24%
Cu 324.752†	153857.3	0.77035	mg/L	0.016210	0.77035	mg/L	0.016210	2.10%
Fe 273.955†	4676844.7	262.52	mg/L	1.110	262.52	mg/L	1.110	0.42%
Mg 279.077†	703459.1	56.375	mg/L	0.2650	56.375	mg/L	0.2650	0.47%
Mn 257.610†	6347788.5	15.707	mg/L	0.0602	15.707	mg/L	0.0602	0.38%
Ni 231.604†	4892.5	0.26706	mg/L	0.002846	0.26706	mg/L	0.002846	1.07%
Pb 220.353†	781.5	0.25379	mg/L	0.002653	0.25379	mg/L	0.002653	1.05%
Sb 206.836†	4.6	0.00144	mg/L	0.001538	0.00144	mg/L	0.001538	106.98%
Se 196.026†	-32.2	0.02659	mg/L	0.009974	0.02659	mg/L	0.009974	37.51%
Tl 190.801†	-18.3	0.00640	mg/L	0.006161	0.00640	mg/L	0.006161	96.32%
V 292.402†	19015.6	0.19799	mg/L	0.005132	0.19799	mg/L	0.005132	2.59%
Zn 206.200†	23751.3	1.5003	mg/L	0.04062	1.5003	mg/L	0.04062	2.71%
Cd 226.502†	702.8	0.00576	mg/L	0.000158	0.00576	mg/L	0.000158	2.74%
Ti 334.940†	326217.0	0.62776	mg/L	0.005509	0.62776	mg/L	0.005509	0.88%
Ca 227.546†	84864.2	625.98	mg/L	15.053	625.98	mg/L	15.053	2.40%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592	3609.6	0.63648	mg/L	0.001606	0.63648	mg/L	0.001606	0.25%
K 766.490	15440.4	8.3700	mg/L	0.05821	8.3700	mg/L	0.05821	0.70%

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Sequence No.: 23 **Autosampler Location: 46**
Sample ID: N1943-02B~(211) TR-2 (11 **Date Collected: 10/24/2014 10:12:00 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:12 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-02B~(211) TR-2 (11

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1726638.0	107.13	%	0.901				0.84%
Lu 261.542	924638.9	97.61	%	0.721				0.74%
Ag 328.068†	-746.2	-0.00412	mg/L	0.000437	-0.00412	mg/L	0.000437	10.60%
Al 308.215†	2398151.8	136.15	mg/L	0.115	136.15	mg/L	0.115	0.08%
As 188.979†	272.1	0.43813	mg/L	0.008794	0.43813	mg/L	0.008794	2.01%
Ba 233.527†	91088.8	1.4363	mg/L	0.01558	1.4363	mg/L	0.01558	1.08%

Be 313.107†	8198.6	0.00600	mg/L	0.000049	0.00600	mg/L	0.000049	0.82%
Co 228.616†	2682.1	0.11192	mg/L	0.000530	0.11192	mg/L	0.000530	0.47%
Cr 267.716†	8970.6	0.15519	mg/L	0.002483	0.15519	mg/L	0.002483	1.60%
Cu 324.752†	181440.7	0.91143	mg/L	0.008743	0.91143	mg/L	0.008743	0.96%
Fe 273.955†	6101318.9	342.47	mg/L	0.321	342.47	mg/L	0.321	0.09%
Mg 279.077†	654763.8	52.472	mg/L	0.0306	52.472	mg/L	0.0306	0.06%
Mn 257.610†	5193175.4	12.850	mg/L	0.0154	12.850	mg/L	0.0154	0.12%
Ni 231.604†	5395.0	0.29444	mg/L	0.001617	0.29444	mg/L	0.001617	0.55%
Pb 220.353†	874.4	0.28242	mg/L	0.004584	0.28242	mg/L	0.004584	1.62%
Sb 206.836†	10.1	0.00599	mg/L	0.004629	0.00599	mg/L	0.004629	77.30%
Se 196.026†	-52.7	0.01118	mg/L	0.006696	0.01118	mg/L	0.006696	59.87%
Tl 190.801†	-28.5	-0.00081	mg/L	0.003011	-0.00081	mg/L	0.003011	370.83%
V 292.402†	20014.9	0.21056	mg/L	0.002104	0.21056	mg/L	0.002104	1.00%
Zn 206.200†	31059.5	1.9619	mg/L	0.01777	1.9619	mg/L	0.01777	0.91%
Cd 226.502†	919.5	0.00758	mg/L	0.000777	0.00758	mg/L	0.000777	10.25%
Ti 334.940†	410800.2	0.77984	mg/L	0.007529	0.77984	mg/L	0.007529	0.97%
Ca 227.546†	14502.9	112.29	mg/L	1.428	112.29	mg/L	1.428	1.27%
Na 589.592	4728.7	0.83382	mg/L	0.006329	0.83382	mg/L	0.006329	0.76%
K 766.490	17958.2	9.7348	mg/L	0.08272	9.7348	mg/L	0.08272	0.85%

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Sequence No.: 24 **Autosampler Location: 47**
Sample ID: N1943-03B~(211) TR-3 (11 **Date Collected: 10/24/2014 10:15:44 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:12 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-03B~(211) TR-3 (11

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1650954.0	102.43	%	0.312				0.30%
Lu 261.542	867737.3	91.60	%	0.302				0.33%
Ag 328.068†	-833.0	-0.00613	mg/L	0.000168	-0.00613	mg/L	0.000168	2.75%
Al 308.215†	2045223.5	115.92	mg/L	0.320	115.92	mg/L	0.320	0.28%
As 188.979†	175.6	0.33024	mg/L	0.007831	0.33024	mg/L	0.007831	2.37%
Ba 233.527†	52407.0	0.82646	mg/L	0.004951	0.82646	mg/L	0.004951	0.60%
Be 313.107†	7647.2	0.00548	mg/L	0.000082	0.00548	mg/L	0.000082	1.49%
Co 228.616†	2615.9	0.10933	mg/L	0.001084	0.10933	mg/L	0.001084	0.99%
Cr 267.716†	7617.5	0.12751	mg/L	0.000938	0.12751	mg/L	0.000938	0.74%
Cu 324.752†	312810.7	1.5453	mg/L	0.01005	1.5453	mg/L	0.01005	0.65%
Fe 273.955†	5401930.9	303.22	mg/L	4.809	303.22	mg/L	4.809	1.59%
Mg 279.077†	1256416.4	100.69	mg/L	0.190	100.69	mg/L	0.190	0.19%
Mn 257.610†	7325717.3	18.126	mg/L	0.2658	18.126	mg/L	0.2658	1.47%
Ni 231.604†	7174.3	0.39175	mg/L	0.002327	0.39175	mg/L	0.002327	0.59%
Pb 220.353†	921.6	0.29994	mg/L	0.002391	0.29994	mg/L	0.002391	0.80%
Sb 206.836†	4.2	0.00090	mg/L	0.003146	0.00090	mg/L	0.003146	348.37%
Se 196.026†	-36.6	0.03201	mg/L	0.005484	0.03201	mg/L	0.005484	17.13%
Tl 190.801†	-36.1	-0.00659	mg/L	0.006761	-0.00659	mg/L	0.006761	102.54%
V 292.402†	16717.4	0.17625	mg/L	0.001431	0.17625	mg/L	0.001431	0.81%
Zn 206.200†	47565.6	3.0057	mg/L	0.02482	3.0057	mg/L	0.02482	0.83%
Cd 226.502†	894.3	0.00932	mg/L	0.000269	0.00932	mg/L	0.000269	2.88%
Ti 334.940†	356015.5	0.69077	mg/L	0.003465	0.69077	mg/L	0.003465	0.50%
Ca 227.546†	141604.0	1042.1	mg/L	6.08	1042.1	mg/L	6.08	0.58%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592	6236.3	1.0997	mg/L	0.02333	1.0997	mg/L	0.02333	2.12%
K 766.490	16707.1	9.0566	mg/L	0.10647	9.0566	mg/L	0.10647	1.18%

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Sequence No.: 25 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/24/2014 10:19:35 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:13 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 360.073	1584732.4	98.324 %	1.0442				1.06%
Lu 261.542	944689.0	99.73 %	1.029				1.03%
Ag 328.068†	183675.9	1.3088 mg/L	0.00306	1.3088 mg/L	0.00306		0.23%
QC value within limits for Ag 328.068 Recovery = 104.70%							
Al 308.215†	185424.8	10.472 mg/L	0.0051	10.472 mg/L	0.0051		0.05%
QC value within limits for Al 308.215 Recovery = 104.72%							
As 188.979†	352.4	0.53176 mg/L	0.008511	0.53176 mg/L	0.008511		1.60%
QC value within limits for As 188.979 Recovery = 106.35%							
Ba 233.527†	667190.1	10.523 mg/L	0.0229	10.523 mg/L	0.0229		0.22%
QC value within limits for Ba 233.527 Recovery = 105.23%							
Be 313.107†	485062.0	0.25933 mg/L	0.001153	0.25933 mg/L	0.001153		0.44%
QC value within limits for Be 313.107 Recovery = 103.73%							
Co 228.616†	60114.6	2.5465 mg/L	0.05030	2.5465 mg/L	0.05030		1.98%
QC value within limits for Co 228.616 Recovery = 101.86%							
Cr 267.716†	56256.4	1.0201 mg/L	0.01972	1.0201 mg/L	0.01972		1.93%
QC value within limits for Cr 267.716 Recovery = 102.01%							
Cu 324.752†	261840.8	1.2715 mg/L	0.00380	1.2715 mg/L	0.00380		0.30%
QC value within limits for Cu 324.752 Recovery = 101.72%							
Fe 273.955†	93049.5	5.2220 mg/L	0.11828	5.2220 mg/L	0.11828		2.27%
QC value within limits for Fe 273.955 Recovery = 104.44%							
Mg 279.077†	335631.2	26.892 mg/L	0.0577	26.892 mg/L	0.0577		0.21%
QC value within limits for Mg 279.077 Recovery = 107.57%							
Mn 257.610†	1074153.8	2.6578 mg/L	0.00246	2.6578 mg/L	0.00246		0.09%
QC value within limits for Mn 257.610 Recovery = 106.31%							
Ni 231.604†	48184.4	2.6330 mg/L	0.04526	2.6330 mg/L	0.04526		1.72%
QC value within limits for Ni 231.604 Recovery = 105.32%							
Pb 220.353†	1647.8	0.52187 mg/L	0.007019	0.52187 mg/L	0.007019		1.34%
QC value within limits for Pb 220.353 Recovery = 104.37%							
Sb 206.836†	519.3	0.48930 mg/L	0.005207	0.48930 mg/L	0.005207		1.06%
QC value within limits for Sb 206.836 Recovery = 97.86%							
Se 196.026†	235.6	0.51560 mg/L	0.002700	0.51560 mg/L	0.002700		0.52%
QC value within limits for Se 196.026 Recovery = 103.12%							
Tl 190.801†	417.8	0.49165 mg/L	0.012864	0.49165 mg/L	0.012864		2.62%
QC value within limits for Tl 190.801 Recovery = 98.33%							
V 292.402†	263514.0	2.6266 mg/L	0.00927	2.6266 mg/L	0.00927		0.35%
QC value within limits for V 292.402 Recovery = 105.06%							
Zn 206.200†	42464.1	2.6880 mg/L	0.05837	2.6880 mg/L	0.05837		2.17%
QC value within limits for Zn 206.200 Recovery = 107.52%							
Cd 226.502†	8151.5	0.26255 mg/L	0.005794	0.26255 mg/L	0.005794		2.21%
QC value within limits for Cd 226.502 Recovery = 105.02%							
Ti 334.940†	269508.9	0.51110 mg/L	0.003053	0.51110 mg/L	0.003053		0.60%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	3402.8	24.326 mg/L	0.3230	24.326 mg/L	0.3230		1.33%
QC value within limits for Ca 227.546 Recovery = 97.30%							
Na 589.592	150730.5	26.578 mg/L	0.4039	26.578 mg/L	0.4039		1.52%
QC value within limits for Na 589.592 Recovery = 106.31%							
K 766.490	48809.9	26.459 mg/L	0.4391	26.459 mg/L	0.4391		1.66%
QC value within limits for K 766.490 Recovery = 105.84%							

All analyte(s) passed QC.

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Sequence No.: 26 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/24/2014 10:23:15 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:14 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1628406.9	101.03	%	0.646				0.64%
Lu 261.542	961978.0	101.6	%	0.75				0.74%
Ag 328.068†	156.8	0.00112	mg/L	0.000694	0.00112	mg/L	0.000694	62.15%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-71.5	-0.00407	mg/L	0.009459	-0.00407	mg/L	0.009459	232.27%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.4	0.00208	mg/L	0.000716	0.00208	mg/L	0.000716	34.49%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	96.4	0.00152	mg/L	0.000222	0.00152	mg/L	0.000222	14.61%

QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107†	49.5	0.00003 mg/L	0.000034	0.00003 mg/L	0.000034	128.56%
QC value within limits for Be 313.107 Recovery = Not calculated							
Co 228.616†	13.0	0.00055 mg/L	0.000163	0.00055 mg/L	0.000163	29.59%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	1.6	0.00003 mg/L	0.000129	0.00003 mg/L	0.000129	436.64%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	140.3	0.00068 mg/L	0.000092	0.00068 mg/L	0.000092	13.50%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 273.955†	53.4	0.00300 mg/L	0.000114	0.00300 mg/L	0.000114	3.79%
QC value within limits for Fe 273.955 Recovery = Not calculated							
Mg 279.077†	124.2	0.00996 mg/L	0.003544	0.00996 mg/L	0.003544	35.60%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	129.8	0.00032 mg/L	0.000077	0.00032 mg/L	0.000077	24.07%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni 231.604†	14.9	0.00082 mg/L	0.000504	0.00082 mg/L	0.000504	61.71%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	2.7	0.00085 mg/L	0.001816	0.00085 mg/L	0.001816	214.87%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	4.0	0.00384 mg/L	0.001371	0.00384 mg/L	0.001371	35.71%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.3	-0.00498 mg/L	0.012563	-0.00498 mg/L	0.012563	252.29%
QC value within limits for Se 196.026 Recovery = Not calculated							
Tl 190.801†	-2.3	-0.00292 mg/L	0.002880	-0.00292 mg/L	0.002880	98.78%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	19.5	0.00019 mg/L	0.000242	0.00019 mg/L	0.000242	124.37%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	21.2	0.00134 mg/L	0.000044	0.00134 mg/L	0.000044	3.26%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Cd 226.502†	4.6	0.00015 mg/L	0.000126	0.00015 mg/L	0.000126	85.09%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Ti 334.940†	67.0	0.00013 mg/L	0.000046	0.00013 mg/L	0.000046	36.04%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	4.9	0.03595 mg/L	0.059300	0.03595 mg/L	0.059300	164.97%
QC value within limits for Ca 227.546 Recovery = Not calculated							
Na 589.592	282.6	0.04983 mg/L	0.020634	0.04983 mg/L	0.020634	41.41%
QC value within limits for Na 589.592 Recovery = Not calculated							
K 766.490	108.4	0.05876 mg/L	0.013458	0.05876 mg/L	0.013458	22.90%

QC value within limits for K 766.490 Recovery = Not calculated

All analyte(s) passed QC.

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Sequence No.: 27 **Autosampler Location: 48**
Sample ID: N1943-04B~(211) TR-4 (11 **Date Collected: 10/24/2014 10:26:54 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:15 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-04B~(211) TR-4 (11

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1682130.1	104.37	%	0.828				0.79%
Lu 261.542	900952.5	95.11	%	0.806				0.85%
Ag 328.068†	-770.4	-0.00161	mg/L	0.000609	-0.00161	mg/L	0.000609	37.96%
Al 308.215†	3188514.0	181.00	mg/L	2.904	181.00	mg/L	2.904	1.60%
As 188.979†	487.4	0.79125	mg/L	0.010436	0.79125	mg/L	0.010436	1.32%
Ba 233.527†	141728.1	2.2347	mg/L	0.03543	2.2347	mg/L	0.03543	1.59%
Be 313.107†	10466.2	0.00781	mg/L	0.000171	0.00781	mg/L	0.000171	2.19%
Co 228.616†	6573.9	0.27615	mg/L	0.002077	0.27615	mg/L	0.002077	0.75%
Cr 267.716†	13540.1	0.23582	mg/L	0.002108	0.23582	mg/L	0.002108	0.89%
Cu 324.752†	837128.1	4.1259	mg/L	0.05533	4.1259	mg/L	0.05533	1.34%
Fe 273.955†	12603342.2	707.45	mg/L	1.081	707.45	mg/L	1.081	0.15%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1024834.5	82.129	mg/L	1.4185	82.129	mg/L	1.4185	1.73%
Mn 257.610†	6746057.9	16.692	mg/L	0.0363	16.692	mg/L	0.0363	0.22%
Ni 231.604†	15466.1	0.84474	mg/L	0.008289	0.84474	mg/L	0.008289	0.98%
Pb 220.353†	3915.3	1.2410	mg/L	0.00896	1.2410	mg/L	0.00896	0.72%
Sb 206.836†	24.2	0.01796	mg/L	0.005295	0.01796	mg/L	0.005295	29.48%
Se 196.026†	-115.5	0.00877	mg/L	0.013621	0.00877	mg/L	0.013621	155.26%

Tl 190.801†	-66.4	-0.00702	mg/L	0.007711	-0.00702	mg/L	0.007711 109.90%
V 292.402†	26383.4	0.28568	mg/L	0.003706	0.28568	mg/L	0.003706 1.30%
Zn 206.200†	77640.8	4.9064	mg/L	0.08084	4.9064	mg/L	0.08084 1.65%
Cd 226.502†	2430.7	0.03280	mg/L	0.000297	0.03280	mg/L	0.000297 0.90%
Ti 334.940†	562879.1	1.0698	mg/L	0.01215	1.0698	mg/L	0.01215 1.14%
Ca 227.546†	30163.1	233.37	mg/L	3.394	233.37	mg/L	3.394 1.45%
Na 589.592	5417.7	0.95531	mg/L	0.018934	0.95531	mg/L	0.018934 1.98%
K 766.490	20621.3	11.178	mg/L	0.2804	11.178	mg/L	0.2804 2.51%

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Sequence No.: 28 **Autosampler Location: 49**
Sample ID: N1943-05B~(211) TR-5 (11 **Date Collected: 10/24/2014 10:30:42 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:15 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-05B~(211) TR-5 (11

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1691042.0	104.92	%	0.604				0.58%
Lu 261.542	915114.1	96.61	%	0.433				0.45%
Ag 328.068†	-705.2	-0.00294	mg/L	0.001060	-0.00294	mg/L	0.001060	36.06%
Al 308.215†	1968772.8	111.74	mg/L	0.148	111.74	mg/L	0.148	0.13%
As 188.979†	376.2	0.59877	mg/L	0.012926	0.59877	mg/L	0.012926	2.16%
Ba 233.527†	69442.4	1.0950	mg/L	0.01911	1.0950	mg/L	0.01911	1.74%
Be 313.107†	3726.4	0.00424	mg/L	0.000084	0.00424	mg/L	0.000084	1.99%
Co 228.616†	2675.4	0.11097	mg/L	0.000607	0.11097	mg/L	0.000607	0.55%
Cr 267.716†	7922.4	0.13834	mg/L	0.002776	0.13834	mg/L	0.002776	2.01%
Cu 324.752†	238012.3	1.1886	mg/L	0.01798	1.1886	mg/L	0.01798	1.51%
Fe 273.955†	6622549.9	371.73	mg/L	0.468	371.73	mg/L	0.468	0.13%
Mg 279.077†	837383.2	67.107	mg/L	0.1169	67.107	mg/L	0.1169	0.17%
Mn 257.610†	3712354.2	9.1856	mg/L	0.01713	9.1856	mg/L	0.01713	0.19%
Ni 231.604†	5797.2	0.31626	mg/L	0.002369	0.31626	mg/L	0.002369	0.75%
Pb 220.353†	1926.6	0.61354	mg/L	0.005040	0.61354	mg/L	0.005040	0.82%
Sb 206.836†	24.5	0.02141	mg/L	0.006432	0.02141	mg/L	0.006432	30.03%
Se 196.026†	-59.3	0.00756	mg/L	0.013131	0.00756	mg/L	0.013131	173.74%
Tl 190.801†	-41.6	-0.01029	mg/L	0.003350	-0.01029	mg/L	0.003350	32.56%
V 292.402†	17822.6	0.18934	mg/L	0.003373	0.18934	mg/L	0.003373	1.78%
Zn 206.200†	44840.7	2.8335	mg/L	0.06193	2.8335	mg/L	0.06193	2.19%
Cd 226.502†	1147.3	0.01302	mg/L	0.000763	0.01302	mg/L	0.000763	5.86%
Ti 334.940†	569334.7	1.0827	mg/L	0.01382	1.0827	mg/L	0.01382	1.28%
Ca 227.546†	32801.3	246.76	mg/L	4.531	246.76	mg/L	4.531	1.84%
Na 589.592	6247.8	1.1017	mg/L	0.00976	1.1017	mg/L	0.00976	0.89%
K 766.490	15125.6	8.1993	mg/L	0.17121	8.1993	mg/L	0.17121	2.09%

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Sequence No.: 29 **Autosampler Location: 50**
Sample ID: N1943-06B~(211) TR-6 (14 **Date Collected: 10/24/2014 10:34:27 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:16 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-06B~(211) TR-6 (14

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1756967.4	109.01	%	1.355				1.24%
Lu 261.542	905078.3	95.55	%	1.013				1.06%
Ag 328.068†	-1563.9	-0.00792	mg/L	0.000324	-0.00792	mg/L	0.000324	4.09%
Al 308.215†	3420367.9	194.10	mg/L	0.284	194.10	mg/L	0.284	0.15%
As 188.979†	903.7	1.4103	mg/L	0.01019	1.4103	mg/L	0.01019	0.72%
Ba 233.527†	99531.1	1.5696	mg/L	0.00324	1.5696	mg/L	0.00324	0.21%
Be 313.107†	11481.1	0.00832	mg/L	0.000042	0.00832	mg/L	0.000042	0.50%
Co 228.616†	4251.8	0.17781	mg/L	0.001358	0.17781	mg/L	0.001358	0.76%
Cr 267.716†	15231.9	0.26682	mg/L	0.003206	0.26682	mg/L	0.003206	1.20%
Cu 324.752†	290504.4	1.4644	mg/L	0.00248	1.4644	mg/L	0.00248	0.17%
Fe 273.955†	10774800.1	604.81	mg/L	2.673	604.81	mg/L	2.673	0.44%

Concentration greater than upper limit for Fe 273.955.

Mg 279.077†	1071608.0	85.878	mg/L	0.2487	85.878	mg/L	0.2487	0.29%
Mn 257.610†	6539999.5	16.182	mg/L	0.0702	16.182	mg/L	0.0702	0.43%
Ni 231.604†	9140.8	0.49903	mg/L	0.006296	0.49903	mg/L	0.006296	1.26%
Pb 220.353†	1266.1	0.40964	mg/L	0.005967	0.40964	mg/L	0.005967	1.46%
Sb 206.836†	21.8	0.01497	mg/L	0.003033	0.01497	mg/L	0.003033	20.26%
Se 196.026†	-103.5	-0.00287	mg/L	0.018860	-0.00287	mg/L	0.018860	656.36%
Tl 190.801†	-60.3	-0.00706	mg/L	0.001275	-0.00706	mg/L	0.001275	18.04%
V 292.402†	29771.5	0.31663	mg/L	0.000897	0.31663	mg/L	0.000897	0.28%
Zn 206.200†	54822.9	3.4637	mg/L	0.01026	3.4637	mg/L	0.01026	0.30%
Cd 226.502†	1841.2	0.02036	mg/L	0.000493	0.02036	mg/L	0.000493	2.42%
Ti 334.940†	555842.0	1.0613	mg/L	0.00455	1.0613	mg/L	0.00455	0.43%
Ca 227.546†	73148.8	546.30	mg/L	1.562	546.30	mg/L	1.562	0.29%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592	8060.1	1.4212	mg/L	0.01795	1.4212	mg/L	0.01795	1.26%
K 766.490	22838.8	12.380	mg/L	0.2965	12.380	mg/L	0.2965	2.39%

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Sequence No.: 30 **Autosampler Location: 51**
Sample ID: N1943-06BDUP~(211) TR-6 **Date Collected: 10/24/2014 10:38:15 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:17 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-06BDUP~(211) TR-6

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1728467.0	107.24	%	0.775				0.72%
Lu 261.542	916029.0	96.70	%	0.801				0.83%
Ag 328.068†	-734.9	-0.00610	mg/L	0.000365	-0.00610	mg/L	0.000365	5.99%
Al 308.215†	2475316.8	140.48	mg/L	1.669	140.48	mg/L	1.669	1.19%
As 188.979†	282.5	0.46881	mg/L	0.008202	0.46881	mg/L	0.008202	1.75%
Ba 233.527†	105517.3	1.6638	mg/L	0.03342	1.6638	mg/L	0.03342	2.01%
Be 313.107†	9202.4	0.00651	mg/L	0.000116	0.00651	mg/L	0.000116	1.78%
Co 228.616†	3762.7	0.15772	mg/L	0.001748	0.15772	mg/L	0.001748	1.11%
Cr 267.716†	9882.6	0.16337	mg/L	0.003211	0.16337	mg/L	0.003211	1.97%
Cu 324.752†	339297.4	1.6816	mg/L	0.02106	1.6816	mg/L	0.02106	1.25%
Fe 273.955†	6932638.9	389.14	mg/L	2.574	389.14	mg/L	2.574	0.66%
Mg 279.077†	971266.5	77.837	mg/L	0.9108	77.837	mg/L	0.9108	1.17%
Mn 257.610†	10905709.9	26.984	mg/L	0.1636	26.984	mg/L	0.1636	0.61%
Ni 231.604†	7682.5	0.41947	mg/L	0.005143	0.41947	mg/L	0.005143	1.23%
Pb 220.353†	1023.6	0.32877	mg/L	0.005577	0.32877	mg/L	0.005577	1.70%
Sb 206.836†	10.8	0.00630	mg/L	0.002191	0.00630	mg/L	0.002191	34.76%
Se 196.026†	-55.4	0.02253	mg/L	0.001812	0.02253	mg/L	0.001812	8.04%
Tl 190.801†	-29.3	-0.00115	mg/L	0.008243	-0.00115	mg/L	0.008243	714.10%
V 292.402†	21499.2	0.22681	mg/L	0.004407	0.22681	mg/L	0.004407	1.94%
Zn 206.200†	74897.3	4.7334	mg/L	0.09582	4.7334	mg/L	0.09582	2.02%
Cd 226.502†	1397.4	0.01997	mg/L	0.001411	0.01997	mg/L	0.001411	7.07%
Ti 334.940†	405791.0	0.77410	mg/L	0.014453	0.77410	mg/L	0.014453	1.87%
Ca 227.546†	47224.5	352.66	mg/L	3.078	352.66	mg/L	3.078	0.87%
Na 589.592	5249.8	0.92570	mg/L	0.008819	0.92570	mg/L	0.008819	0.95%
K 766.490	18540.4	10.050	mg/L	0.1246	10.050	mg/L	0.1246	1.24%

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Sequence No.: 31 **Autosampler Location: 52**
Sample ID: N1943-06BMS~(211) TR-6 (**Date Collected: 10/24/2014 10:42:07 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:17 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-06BMS~(211) TR-6 (

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1751761.8	108.69	%	1.180				1.09%
Lu 261.542	926866.4	97.85	%	1.072				1.10%
Ag 328.068†	167321.2	1.1937	mg/L	0.00153	1.1937	mg/L	0.00153	0.13%
Al 308.215†	2953049.2	167.59	mg/L	0.089	167.59	mg/L	0.089	0.05%
As 188.979†	606.6	0.94823	mg/L	0.012790	0.94823	mg/L	0.012790	1.35%

Ba 233.527†	660214.5	10.412	mg/L	0.0206	10.412	mg/L	0.0206	0.20%
Be 313.107†	432246.1	0.23223	mg/L	0.000794	0.23223	mg/L	0.000794	0.34%
Co 228.616†	57178.8	2.4210	mg/L	0.00464	2.4210	mg/L	0.00464	0.19%
Cr 267.716†	60887.7	1.0968	mg/L	0.00247	1.0968	mg/L	0.00247	0.23%
Cu 324.752†	527019.1	2.5920	mg/L	0.00915	2.5920	mg/L	0.00915	0.35%
Fe 273.955†	6758425.3	379.36	mg/L	2.023	379.36	mg/L	2.023	0.53%
Mg 279.077†	1265742.2	101.43	mg/L	0.264	101.43	mg/L	0.264	0.26%
Mn 257.610†	6006727.4	14.863	mg/L	0.0912	14.863	mg/L	0.0912	0.61%
Ni 231.604†	48396.9	2.6444	mg/L	0.00877	2.6444	mg/L	0.00877	0.33%
Pb 220.353†	2770.9	0.88389	mg/L	0.004814	0.88389	mg/L	0.004814	0.54%
Sb 206.836†	342.5	0.31525	mg/L	0.001880	0.31525	mg/L	0.001880	0.60%
Se 196.026†	158.5	0.48536	mg/L	0.018432	0.48536	mg/L	0.018432	3.80%
Tl 190.801†	360.9	0.46465	mg/L	0.012211	0.46465	mg/L	0.012211	2.63%
V 292.402†	247366.8	2.4780	mg/L	0.00821	2.4780	mg/L	0.00821	0.33%
Zn 206.200†	112780.2	7.1311	mg/L	0.02399	7.1311	mg/L	0.02399	0.34%
Cd 226.502†	9085.9	0.26846	mg/L	0.001738	0.26846	mg/L	0.001738	0.65%
Ti 334.940†	526221.1	0.99982	mg/L	0.007029	0.99982	mg/L	0.007029	0.70%
Ca 227.546†	27773.2	209.51	mg/L	1.437	209.51	mg/L	1.437	0.69%
Na 589.592	143363.7	25.279	mg/L	0.1652	25.279	mg/L	0.1652	0.65%
K 766.490	61138.4	33.142	mg/L	0.1411	33.142	mg/L	0.1411	0.43%

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Sequence No.: 32 **Autosampler Location: 53**
Sample ID: N1943-06BSD~(211) TR-6 **Date Collected: 10/24/2014 10:45:54 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:18 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-06BSD~(211) TR-6

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1699712.0	105.46	%	0.961				0.91%
Lu 261.542	973803.1	102.8	%	1.08				1.05%
Ag 328.068†	-175.3	-0.00048	mg/L	0.000327	-0.00048	mg/L	0.000327	68.69%
Al 308.215†	676590.1	38.393	mg/L	0.1818	38.393	mg/L	0.1818	0.47%
As 188.979†	191.9	0.30042	mg/L	0.005168	0.30042	mg/L	0.005168	1.72%
Ba 233.527†	21286.7	0.33569	mg/L	0.002947	0.33569	mg/L	0.002947	0.88%
Be 313.107†	2510.0	0.00179	mg/L	0.000009	0.00179	mg/L	0.000009	0.50%
Co 228.616†	939.0	0.03930	mg/L	0.000409	0.03930	mg/L	0.000409	1.04%
Cr 267.716†	3232.2	0.05654	mg/L	0.000594	0.05654	mg/L	0.000594	1.05%
Cu 324.752†	57267.5	0.29048	mg/L	0.003305	0.29048	mg/L	0.003305	1.14%
Fe 273.955†	2478464.9	139.12	mg/L	0.629	139.12	mg/L	0.629	0.45%
Mg 279.077†	233492.9	18.712	mg/L	0.1325	18.712	mg/L	0.1325	0.71%
Mn 257.610†	1439210.1	3.5611	mg/L	0.01892	3.5611	mg/L	0.01892	0.53%
Ni 231.604†	2024.1	0.11051	mg/L	0.001314	0.11051	mg/L	0.001314	1.19%
Pb 220.353†	278.6	0.08973	mg/L	0.002969	0.08973	mg/L	0.002969	3.31%
Sb 206.836†	3.4	0.00202	mg/L	0.004475	0.00202	mg/L	0.004475	221.67%
Se 196.026†	-24.4	-0.00207	mg/L	0.009899	-0.00207	mg/L	0.009899	477.55%
Tl 190.801†	-15.9	-0.00414	mg/L	0.006360	-0.00414	mg/L	0.006360	153.71%
V 292.402†	6270.9	0.06711	mg/L	0.000842	0.06711	mg/L	0.000842	1.25%
Zn 206.200†	12413.5	0.78436	mg/L	0.006410	0.78436	mg/L	0.006410	0.82%
Cd 226.502†	387.2	0.00351	mg/L	0.000099	0.00351	mg/L	0.000099	2.81%
Ti 334.940†	113972.7	0.21774	mg/L	0.002904	0.21774	mg/L	0.002904	1.33%
Ca 227.546†	15995.9	119.58	mg/L	1.199	119.58	mg/L	1.199	1.00%
Na 589.592	1998.8	0.35244	mg/L	0.014891	0.35244	mg/L	0.014891	4.23%
K 766.490	4953.4	2.6852	mg/L	0.01438	2.6852	mg/L	0.01438	0.54%

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Sequence No.: 33 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/24/2014 10:49:35 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:19 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

Y 360.073	1619571.6	100.49 %	1.966				1.96%
Lu 261.542	966754.8	102.1 %	1.93				1.89%
Ag 328.068†	178691.0	1.2732 mg/L	0.00161	1.2732 mg/L	0.00161		0.13%
QC value within limits for Ag 328.068 Recovery = 101.86%							
Al 308.215†	179189.2	10.120 mg/L	0.0161	10.120 mg/L	0.0161		0.16%
QC value within limits for Al 308.215 Recovery = 101.20%							
As 188.979†	347.3	0.52409 mg/L	0.007563	0.52409 mg/L	0.007563		1.44%
QC value within limits for As 188.979 Recovery = 104.82%							
Ba 233.527†	647927.7	10.219 mg/L	0.0011	10.219 mg/L	0.0011		0.01%
QC value within limits for Ba 233.527 Recovery = 102.19%							
Be 313.107†	471188.9	0.25191 mg/L	0.000582	0.25191 mg/L	0.000582		0.23%
QC value within limits for Be 313.107 Recovery = 100.76%							
Co 228.616†	59097.6	2.5034 mg/L	0.03733	2.5034 mg/L	0.03733		1.49%
QC value within limits for Co 228.616 Recovery = 100.14%							
Cr 267.716†	55178.2	1.0005 mg/L	0.01456	1.0005 mg/L	0.01456		1.46%
QC value within limits for Cr 267.716 Recovery = 100.05%							
Cu 324.752†	253682.6	1.2319 mg/L	0.00433	1.2319 mg/L	0.00433		0.35%
QC value within limits for Cu 324.752 Recovery = 98.55%							
Fe 273.955†	90897.5	5.1013 mg/L	0.08320	5.1013 mg/L	0.08320		1.63%
QC value within limits for Fe 273.955 Recovery = 102.03%							
Mg 279.077†	326988.1	26.200 mg/L	0.0602	26.200 mg/L	0.0602		0.23%
QC value within limits for Mg 279.077 Recovery = 104.80%							
Mn 257.610†	1044422.9	2.5842 mg/L	0.00458	2.5842 mg/L	0.00458		0.18%
QC value within limits for Mn 257.610 Recovery = 103.37%							
Ni 231.604†	47326.2	2.5861 mg/L	0.03513	2.5861 mg/L	0.03513		1.36%
QC value within limits for Ni 231.604 Recovery = 103.45%							
Pb 220.353†	1627.9	0.51553 mg/L	0.011339	0.51553 mg/L	0.011339		2.20%
QC value within limits for Pb 220.353 Recovery = 103.11%							
Sb 206.836†	509.8	0.48028 mg/L	0.006544	0.48028 mg/L	0.006544		1.36%
QC value within limits for Sb 206.836 Recovery = 96.06%							
Se 196.026†	229.2	0.50151 mg/L	0.012170	0.50151 mg/L	0.012170		2.43%
QC value within limits for Se 196.026 Recovery = 100.30%							
Tl 190.801†	408.0	0.48002 mg/L	0.008955	0.48002 mg/L	0.008955		1.87%
QC value within limits for Tl 190.801 Recovery = 96.00%							
V 292.402†	256161.0	2.5533 mg/L	0.00101	2.5533 mg/L	0.00101		0.04%
QC value within limits for V 292.402 Recovery = 102.13%							
Zn 206.200†	41718.8	2.6408 mg/L	0.03275	2.6408 mg/L	0.03275		1.24%
QC value within limits for Zn 206.200 Recovery = 105.63%							
Cd 226.502†	8056.2	0.25948 mg/L	0.003185	0.25948 mg/L	0.003185		1.23%
QC value within limits for Cd 226.502 Recovery = 103.79%							
Ti 334.940†	261107.1	0.49517 mg/L	0.003265	0.49517 mg/L	0.003265		0.66%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	3319.6	23.728 mg/L	0.5316	23.728 mg/L	0.5316		2.24%
QC value within limits for Ca 227.546 Recovery = 94.91%							
Na 589.592	150971.0	26.621 mg/L	0.1516	26.621 mg/L	0.1516		0.57%
QC value within limits for Na 589.592 Recovery = 106.48%							
K 766.490	48609.4	26.350 mg/L	0.1488	26.350 mg/L	0.1488		0.56%
QC value within limits for K 766.490 Recovery = 105.40%							

All analyte(s) passed QC.

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Sequence No.: 34 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/24/2014 10:53:15 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:20 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1654714.2	102.67 %		1.532				1.49%
Lu 261.542	980102.9	103.5 %		1.54				1.49%
Ag 328.068†	113.8	0.00081 mg/L		0.000616	0.00081 mg/L		0.000616	75.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-258.0	-0.01465 mg/L		0.008162	-0.01465 mg/L		0.008162	55.72%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	4.1	0.00604 mg/L		0.002848	0.00604 mg/L		0.002848	47.11%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	47.2	0.00074 mg/L		0.000286	0.00074 mg/L		0.000286	38.42%

QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107†	10.2	0.00001 mg/L	0.000011	0.00001 mg/L	0.000011	195.89%
QC value within limits for Be 313.107 Recovery = Not calculated							
Co 228.616†	6.9	0.00029 mg/L	0.000216	0.00029 mg/L	0.000216	74.34%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-0.5	-0.00001 mg/L	0.000046	-0.00001 mg/L	0.000046	537.09%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	26.7	0.00013 mg/L	0.000386	0.00013 mg/L	0.000386	297.70%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 273.955†	61.3	0.00344 mg/L	0.001379	0.00344 mg/L	0.001379	40.07%
QC value within limits for Fe 273.955 Recovery = Not calculated							
Mg 279.077†	107.3	0.00860 mg/L	0.004296	0.00860 mg/L	0.004296	49.93%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	43.4	0.00011 mg/L	0.000095	0.00011 mg/L	0.000095	88.31%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni 231.604†	10.2	0.00056 mg/L	0.000140	0.00056 mg/L	0.000140	25.11%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	1.5	0.00049 mg/L	0.000156	0.00049 mg/L	0.000156	32.05%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	2.8	0.00272 mg/L	0.001907	0.00272 mg/L	0.001907	70.06%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.1	-0.00688 mg/L	0.005754	-0.00688 mg/L	0.005754	83.65%
QC value within limits for Se 196.026 Recovery = Not calculated							
Tl 190.801†	-1.5	-0.00182 mg/L	0.003611	-0.00182 mg/L	0.003611	198.00%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	9.1	0.00009 mg/L	0.000045	0.00009 mg/L	0.000045	49.50%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	23.7	0.00150 mg/L	0.000095	0.00150 mg/L	0.000095	6.34%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Cd 226.502†	6.1	0.00020 mg/L	0.000063	0.00020 mg/L	0.000063	31.84%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Ti 334.940†	18.8	0.00004 mg/L	0.000115	0.00004 mg/L	0.000115	321.77%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	-2.3	-0.01674 mg/L	0.043177	-0.01674 mg/L	0.043177	257.86%
QC value within limits for Ca 227.546 Recovery = Not calculated							
Na 589.592	313.9	0.05535 mg/L	0.021475	0.05535 mg/L	0.021475	38.80%
QC value within limits for Na 589.592 Recovery = Not calculated							
K 766.490	225.0	0.12194 mg/L	0.018770	0.12194 mg/L	0.018770	15.39%

QC value within limits for K 766.490 Recovery = Not calculated

All analyte(s) passed QC.

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Sequence No.: 35 **Autosampler Location: 54**
Sample ID: N1943-06BPDS~(211) TR-6 **Date Collected: 10/24/2014 10:56:54 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:20 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-06BPDS~(211) TR-6

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1765676.7	109.55	%	1.912				1.75%
Lu 261.542	906103.6	95.65	%	0.784				0.82%
Ag 328.068†	150409.1	1.0749	mg/L	0.01269	1.0749	mg/L	0.01269	1.18%
Al 308.215†	3572359.9	202.68	mg/L	2.490	202.68	mg/L	2.490	1.23%
As 188.979†	1186.2	1.8359	mg/L	0.01687	1.8359	mg/L	0.01687	0.92%
Ba 233.527†	654298.9	10.319	mg/L	0.1365	10.319	mg/L	0.1365	1.32%
Be 313.107†	417863.4	0.22477	mg/L	0.002947	0.22477	mg/L	0.002947	1.31%
Co 228.616†	54942.7	2.3260	mg/L	0.02590	2.3260	mg/L	0.02590	1.11%
Cr 267.716†	63399.1	1.1405	mg/L	0.01585	1.1405	mg/L	0.01585	1.39%
Cu 324.752†	531542.8	2.6339	mg/L	0.03405	2.6339	mg/L	0.03405	1.29%
Fe 273.955†	10680511.1	599.51	mg/L	2.090	599.51	mg/L	2.090	0.35%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1328595.1	106.47	mg/L	1.562	106.47	mg/L	1.562	1.47%
Mn 257.610†	7260940.7	17.966	mg/L	0.0561	17.966	mg/L	0.0561	0.31%
Ni 231.604†	47768.2	2.6100	mg/L	0.04311	2.6100	mg/L	0.04311	1.65%
Pb 220.353†	2593.2	0.82971	mg/L	0.007624	0.82971	mg/L	0.007624	0.92%
Sb 206.836†	440.5	0.40800	mg/L	0.013637	0.40800	mg/L	0.013637	3.34%
Se 196.026†	86.9	0.41026	mg/L	0.014723	0.41026	mg/L	0.014723	3.59%

Tl 190.801†	268.3	0.37713	mg/L	0.012376	0.37713	mg/L	0.012376	3.28%
V 292.402†	250476.1	2.5166	mg/L	0.03472	2.5166	mg/L	0.03472	1.38%
Zn 206.200†	87255.3	5.5170	mg/L	0.08185	5.5170	mg/L	0.08185	1.48%
Cd 226.502†	8261.3	0.22777	mg/L	0.002524	0.22777	mg/L	0.002524	1.11%
Ti 334.940†	576387.2	1.1002	mg/L	0.01660	1.1002	mg/L	0.01660	1.51%
Ca 227.546†	75098.5	559.93	mg/L	0.737	559.93	mg/L	0.737	0.13%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592	138668.1	24.451	mg/L	0.2034	24.451	mg/L	0.2034	0.83%
K 766.490	66406.1	35.998	mg/L	0.3539	35.998	mg/L	0.3539	0.98%

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Sequence No.: 36 **Autosampler Location: 55**
Sample ID: N1937-01B~SED-LOCKC1-33- **Date Collected: 10/24/2014 11:00:43 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:21 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-01B~SED-LOCKC1-33-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1672164.3	103.75	%	1.259				1.21%
Lu 261.542	932436.5	98.43	%	1.385				1.41%
Ag 328.068†	-1151.1	-0.00416	mg/L	0.001322	-0.00416	mg/L	0.001322	31.77%
Al 308.215†	3989886.2	226.53	mg/L	0.130	226.53	mg/L	0.130	0.06%
As 188.979†	54.8	0.13775	mg/L	0.004510	0.13775	mg/L	0.004510	3.27%
Ba 233.527†	72334.4	1.1411	mg/L	0.02356	1.1411	mg/L	0.02356	2.06%
Be 313.107†	15656.5	0.01024	mg/L	0.000155	0.01024	mg/L	0.000155	1.51%
Co 228.616†	5790.9	0.24337	mg/L	0.003798	0.24337	mg/L	0.003798	1.56%
Cr 267.716†	24367.1	0.43575	mg/L	0.009866	0.43575	mg/L	0.009866	2.26%
Cu 324.752†	108726.6	0.58000	mg/L	0.011475	0.58000	mg/L	0.011475	1.98%
Fe 273.955†	10293818.6	577.80	mg/L	0.991	577.80	mg/L	0.991	0.17%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1739686.5	139.42	mg/L	0.490	139.42	mg/L	0.490	0.35%
Mn 257.610†	4373428.3	10.821	mg/L	0.0170	10.821	mg/L	0.0170	0.16%
Ni 231.604†	9892.8	0.54022	mg/L	0.007973	0.54022	mg/L	0.007973	1.48%
Pb 220.353†	1082.3	0.35273	mg/L	0.005008	0.35273	mg/L	0.005008	1.42%
Sb 206.836†	5.8	-0.00362	mg/L	0.005436	-0.00362	mg/L	0.005436	150.00%
Se 196.026†	-98.1	-0.00128	mg/L	0.012647	-0.00128	mg/L	0.012647	990.80%
Tl 190.801†	-66.0	-0.01803	mg/L	0.000932	-0.01803	mg/L	0.000932	5.17%
V 292.402†	45059.1	0.46868	mg/L	0.008330	0.46868	mg/L	0.008330	1.78%
Zn 206.200†	28480.8	1.7983	mg/L	0.03664	1.7983	mg/L	0.03664	2.04%
Cd 226.502†	1383.9	0.00742	mg/L	0.001016	0.00742	mg/L	0.001016	13.69%
Ti 334.940†	477707.6	0.90515	mg/L	0.005500	0.90515	mg/L	0.005500	0.61%
Ca 227.546†	5644.7	51.626	mg/L	0.6098	51.626	mg/L	0.6098	1.18%
Na 589.592	6291.2	1.1093	mg/L	0.01806	1.1093	mg/L	0.01806	1.63%
K 766.490	31377.9	17.009	mg/L	0.2849	17.009	mg/L	0.2849	1.68%

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Sequence No.: 37 **Autosampler Location: 56**
Sample ID: N1937-02B~SED-LOCKC1-35- **Date Collected: 10/24/2014 11:04:35 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:22 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-02B~SED-LOCKC1-35-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1677255.2	104.06	%	3.694				3.55%
Lu 261.542	915817.5	96.68	%	1.387				1.43%
Ag 328.068†	-1072.5	-0.00451	mg/L	0.001104	-0.00451	mg/L	0.001104	24.49%
Al 308.215†	5356106.0	304.11	mg/L	8.217	304.11	mg/L	8.217	2.70%
As 188.979†	17.8	0.07447	mg/L	0.007340	0.07447	mg/L	0.007340	9.86%
Ba 233.527†	72093.0	1.1371	mg/L	0.01546	1.1371	mg/L	0.01546	1.36%
Be 313.107†	21458.2	0.01432	mg/L	0.000192	0.01432	mg/L	0.000192	1.34%
Co 228.616†	4371.7	0.18217	mg/L	0.004326	0.18217	mg/L	0.004326	2.37%
Cr 267.716†	26135.1	0.46913	mg/L	0.005886	0.46913	mg/L	0.005886	1.25%
Cu 324.752†	151562.0	0.77664	mg/L	0.011659	0.77664	mg/L	0.011659	1.50%

Fe 273.955†	8099380.6	454.61	mg/L	11.837	454.61	mg/L	11.837	2.60%
Mg 279.077†	1360140.8	109.00	mg/L	1.526	109.00	mg/L	1.526	1.40%
Mn 257.610†	3425015.5	8.4746	mg/L	0.22259	8.4746	mg/L	0.22259	2.63%
Ni 231.604†	7799.6	0.42553	mg/L	0.009408	0.42553	mg/L	0.009408	2.21%
Pb 220.353†	1213.0	0.40171	mg/L	0.006893	0.40171	mg/L	0.006893	1.72%
Sb 206.836†	10.7	-0.00049	mg/L	0.003660	-0.00049	mg/L	0.003660	744.64%
Se 196.026†	-74.6	0.00479	mg/L	0.015759	0.00479	mg/L	0.015759	328.87%
Tl 190.801†	-49.8	-0.01024	mg/L	0.005841	-0.01024	mg/L	0.005841	57.05%
V 292.402†	30814.8	0.32208	mg/L	0.005228	0.32208	mg/L	0.005228	1.62%
Zn 206.200†	30666.8	1.9354	mg/L	0.02960	1.9354	mg/L	0.02960	1.53%
Cd 226.502†	1181.2	0.00880	mg/L	0.001029	0.00880	mg/L	0.001029	11.68%
Ti 334.940†	731623.7	1.3863	mg/L	0.02115	1.3863	mg/L	0.02115	1.53%
Ca 227.546†	6477.3	55.619	mg/L	1.4319	55.619	mg/L	1.4319	2.57%
Na 589.592	560579.6	98.847	mg/L	1.4684	98.847	mg/L	1.4684	1.49%
K 766.490	35790.3	19.401	mg/L	0.2821	19.401	mg/L	0.2821	1.45%

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Sequence No.: 38 **Autosampler Location: 57**
Sample ID: N1937-03B~SED-LOCKC1-35- **Date Collected: 10/24/2014 11:08:22 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:22 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-03B~SED-LOCKC1-35-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1711573.6	106.19	%	1.597				1.50%
Lu 261.542	972230.6	102.6	%	1.61				1.57%
Ag 328.068†	-540.7	-0.00190	mg/L	0.000969	-0.00190	mg/L	0.000969	50.92%
Al 308.215†	1990138.8	112.99	mg/L	2.528	112.99	mg/L	2.528	2.24%
As 188.979†	2.1	0.03139	mg/L	0.008228	0.03139	mg/L	0.008228	26.22%
Ba 233.527†	38695.4	0.61035	mg/L	0.009114	0.61035	mg/L	0.009114	1.49%
Be 313.107†	7552.4	0.00567	mg/L	0.000047	0.00567	mg/L	0.000047	0.82%
Co 228.616†	2602.9	0.10854	mg/L	0.001875	0.10854	mg/L	0.001875	1.73%
Cr 267.716†	16568.4	0.29768	mg/L	0.004875	0.29768	mg/L	0.004875	1.64%
Cu 324.752†	39427.4	0.21617	mg/L	0.004573	0.21617	mg/L	0.004573	2.12%
Fe 273.955†	4880510.7	273.95	mg/L	5.895	273.95	mg/L	5.895	2.15%
Mg 279.077†	859597.7	68.887	mg/L	1.4557	68.887	mg/L	1.4557	2.11%
Mn 257.610†	1981197.9	4.9021	mg/L	0.10245	4.9021	mg/L	0.10245	2.09%
Ni 231.604†	4697.6	0.25632	mg/L	0.004911	0.25632	mg/L	0.004911	1.92%
Pb 220.353†	807.1	0.26083	mg/L	0.005522	0.26083	mg/L	0.005522	2.12%
Sb 206.836†	9.8	0.00442	mg/L	0.004556	0.00442	mg/L	0.004556	103.02%
Se 196.026†	-43.9	0.00513	mg/L	0.012260	0.00513	mg/L	0.012260	239.08%
Tl 190.801†	-32.0	-0.00914	mg/L	0.004715	-0.00914	mg/L	0.004715	51.58%
V 292.402†	19010.9	0.19862	mg/L	0.002344	0.19862	mg/L	0.002344	1.18%
Zn 206.200†	19129.5	1.2085	mg/L	0.01906	1.2085	mg/L	0.01906	1.58%
Cd 226.502†	679.2	0.00426	mg/L	0.000067	0.00426	mg/L	0.000067	1.58%
Ti 334.940†	416161.5	0.78882	mg/L	0.012793	0.78882	mg/L	0.012793	1.62%
Ca 227.546†	3327.1	29.248	mg/L	0.4984	29.248	mg/L	0.4984	1.70%
Na 589.592	4483.0	0.79049	mg/L	0.021457	0.79049	mg/L	0.021457	2.71%
K 766.490	23771.6	12.886	mg/L	0.1742	12.886	mg/L	0.1742	1.35%

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Sequence No.: 39 **Autosampler Location: 58**
Sample ID: N1937-04B~SED-LOCKC1-36- **Date Collected: 10/24/2014 11:12:06 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:23 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-04B~SED-LOCKC1-36-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1710817.1	106.15	%	0.832				0.78%
Lu 261.542	943147.2	99.57	%	0.312				0.31%
Ag 328.068†	-1114.7	-0.00464	mg/L	0.001325	-0.00464	mg/L	0.001325	28.53%
Al 308.215†	4068712.8	231.01	mg/L	2.787	231.01	mg/L	2.787	1.21%
As 188.979†	18.7	0.08291	mg/L	0.001391	0.08291	mg/L	0.001391	1.68%

Ba 233.527†	61460.4	0.96953	mg/L	0.010873	0.96953	mg/L	0.010873	1.12%
Be 313.107†	16646.7	0.01090	mg/L	0.000126	0.01090	mg/L	0.000126	1.16%
Co 228.616†	4787.2	0.20069	mg/L	0.001582	0.20069	mg/L	0.001582	0.79%
Cr 267.716†	28736.8	0.51373	mg/L	0.005058	0.51373	mg/L	0.005058	0.98%
Cu 324.752†	91663.6	0.49401	mg/L	0.004921	0.49401	mg/L	0.004921	1.00%
Fe 273.955†	9669255.7	542.74	mg/L	3.704	542.74	mg/L	3.704	0.68%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1732222.3	138.82	mg/L	1.684	138.82	mg/L	1.684	1.21%
Mn 257.610†	5211127.1	12.894	mg/L	0.0995	12.894	mg/L	0.0995	0.77%
Ni 231.604†	8537.8	0.46612	mg/L	0.003553	0.46612	mg/L	0.003553	0.76%
Pb 220.353†	1509.4	0.48808	mg/L	0.003471	0.48808	mg/L	0.003471	0.71%
Sb 206.836†	7.4	-0.00330	mg/L	0.007928	-0.00330	mg/L	0.007928	240.07%
Se 196.026†	-86.3	0.01170	mg/L	0.017744	0.01170	mg/L	0.017744	151.67%
Tl 190.801†	-57.1	-0.01133	mg/L	0.002784	-0.01133	mg/L	0.002784	24.57%
V 292.402†	35786.4	0.37520	mg/L	0.004282	0.37520	mg/L	0.004282	1.14%
Zn 206.200†	35222.0	2.2247	mg/L	0.02849	2.2247	mg/L	0.02849	1.28%
Cd 226.502†	1371.2	0.00925	mg/L	0.001018	0.00925	mg/L	0.001018	11.01%
Ti 334.940†	513771.9	0.97357	mg/L	0.016941	0.97357	mg/L	0.016941	1.74%
Ca 227.546†	6295.0	55.786	mg/L	0.4669	55.786	mg/L	0.4669	0.84%
Na 589.592	6853.7	1.2085	mg/L	0.02602	1.2085	mg/L	0.02602	2.15%
K 766.490	35515.2	19.252	mg/L	0.2512	19.252	mg/L	0.2512	1.30%

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Sequence No.: 40 **Autosampler Location: 59**
Sample ID: N1937-05B~SED-LOCKC1-36- **Date Collected: 10/24/2014 11:15:58 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:24 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-05B~SED-LOCKC1-36-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1695066.6	105.17	%	1.793				1.71%
Lu 261.542	940675.9	99.30	%	1.047				1.05%
Ag 328.068†	-1116.8	-0.00503	mg/L	0.000453	-0.00503	mg/L	0.000453	9.02%
Al 308.215†	3404303.4	193.28	mg/L	1.379	193.28	mg/L	1.379	0.71%
As 188.979†	6.1	0.05524	mg/L	0.008741	0.05524	mg/L	0.008741	15.82%
Ba 233.527†	61127.3	0.96419	mg/L	0.016378	0.96419	mg/L	0.016378	1.70%
Be 313.107†	11516.7	0.00879	mg/L	0.000171	0.00879	mg/L	0.000171	1.95%
Co 228.616†	4417.0	0.18435	mg/L	0.002214	0.18435	mg/L	0.002214	1.20%
Cr 267.716†	25154.9	0.45078	mg/L	0.007980	0.45078	mg/L	0.007980	1.77%
Cu 324.752†	60979.2	0.33641	mg/L	0.005319	0.33641	mg/L	0.005319	1.58%
Fe 273.955†	7957578.5	446.66	mg/L	5.084	446.66	mg/L	5.084	1.14%
Mg 279.077†	1451436.9	116.32	mg/L	0.877	116.32	mg/L	0.877	0.75%
Mn 257.610†	3816866.3	9.4442	mg/L	0.11078	9.4442	mg/L	0.11078	1.17%
Ni 231.604†	7442.3	0.40607	mg/L	0.005334	0.40607	mg/L	0.005334	1.31%
Pb 220.353†	1339.9	0.43337	mg/L	0.006157	0.43337	mg/L	0.006157	1.42%
Sb 206.836†	9.6	0.00128	mg/L	0.001780	0.00128	mg/L	0.001780	139.43%
Se 196.026†	-65.3	0.02212	mg/L	0.007022	0.02212	mg/L	0.007022	31.74%
Tl 190.801†	-54.0	-0.01785	mg/L	0.002831	-0.01785	mg/L	0.002831	15.86%
V 292.402†	30994.0	0.32378	mg/L	0.005914	0.32378	mg/L	0.005914	1.83%
Zn 206.200†	32544.0	2.0558	mg/L	0.03614	2.0558	mg/L	0.03614	1.76%
Cd 226.502†	1131.0	0.00770	mg/L	0.001237	0.00770	mg/L	0.001237	16.07%
Ti 334.940†	669326.7	1.2687	mg/L	0.01689	1.2687	mg/L	0.01689	1.33%
Ca 227.546†	6073.7	52.446	mg/L	0.7812	52.446	mg/L	0.7812	1.49%
Na 589.592	6071.3	1.0706	mg/L	0.03221	1.0706	mg/L	0.03221	3.01%
K 766.490	31811.6	17.245	mg/L	0.3757	17.245	mg/L	0.3757	2.18%

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Sequence No.: 41 **Autosampler Location: 60**
Sample ID: N1937-06B~SED-LOCKC1-22- **Date Collected: 10/24/2014 11:19:51 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:24 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-06B~SED-LOCKC1-22-

Analyte	Mean Corrected	Calib.	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	1763848.4	109.44	%	0.646				0.59%
Lu 261.542	956009.9	100.9	%	0.64				0.64%
Ag 328.068†	-796.5	-0.00363	mg/L	0.000518	-0.00363	mg/L	0.000518	14.29%
Al 308.215†	3247426.5	184.37	mg/L	0.271	184.37	mg/L	0.271	0.15%
As 188.979†	10.7	0.05446	mg/L	0.005298	0.05446	mg/L	0.005298	9.73%
Ba 233.527†	84252.3	1.3287	mg/L	0.02055	1.3287	mg/L	0.02055	1.55%
Be 313.107†	6620.5	0.00859	mg/L	0.000027	0.00859	mg/L	0.000027	0.31%
Co 228.616†	3998.6	0.16408	mg/L	0.002030	0.16408	mg/L	0.002030	1.24%
Cr 267.716†	18723.5	0.33452	mg/L	0.005331	0.33452	mg/L	0.005331	1.59%
Cu 324.752†	79434.0	0.41711	mg/L	0.005470	0.41711	mg/L	0.005470	1.31%
Fe 273.955†	6219901.4	349.12	mg/L	0.627	349.12	mg/L	0.627	0.18%
Mg 279.077†	1128597.1	90.444	mg/L	0.1506	90.444	mg/L	0.1506	0.17%
Mn 257.610†	3546953.5	8.7763	mg/L	0.00895	8.7763	mg/L	0.00895	0.10%
Ni 231.604†	5685.5	0.30938	mg/L	0.004123	0.30938	mg/L	0.004123	1.33%
Pb 220.353†	1104.3	0.36056	mg/L	0.004974	0.36056	mg/L	0.004974	1.38%
Sb 206.836†	7.8	0.00410	mg/L	0.001173	0.00410	mg/L	0.001173	28.61%
Se 196.026†	-53.5	0.01201	mg/L	0.022976	0.01201	mg/L	0.022976	191.30%
Tl 190.801†	-37.9	-0.00981	mg/L	0.003186	-0.00981	mg/L	0.003186	32.48%
V 292.402†	28187.0	0.29112	mg/L	0.004779	0.29112	mg/L	0.004779	1.64%
Zn 206.200†	26428.0	1.6689	mg/L	0.02791	1.6689	mg/L	0.02791	1.67%
Cd 226.502†	989.3	0.00940	mg/L	0.000933	0.00940	mg/L	0.000933	9.92%
Ti 334.940†	1279533.8	2.4262	mg/L	0.01897	2.4262	mg/L	0.01897	0.78%
Ca 227.546†	9182.8	73.485	mg/L	0.9427	73.485	mg/L	0.9427	1.28%
Na 589.592	8064.9	1.4221	mg/L	0.03007	1.4221	mg/L	0.03007	2.11%
K 766.490	34456.2	18.678	mg/L	0.4886	18.678	mg/L	0.4886	2.62%

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Sequence No.: 42 **Autosampler Location: 61**
Sample ID: N1937-07B~SED-LOCKC1-22- **Date Collected: 10/24/2014 11:23:36 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:25 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-07B~SED-LOCKC1-22-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1749433.0	108.54	%	0.770				0.71%
Lu 261.542	937604.9	98.98	%	0.912				0.92%
Ag 328.068†	-537.0	-0.00148	mg/L	0.000120	-0.00148	mg/L	0.000120	8.09%
Al 308.215†	3839980.0	218.02	mg/L	1.102	218.02	mg/L	1.102	0.51%
As 188.979†	15.6	0.07118	mg/L	0.002637	0.07118	mg/L	0.002637	3.70%
Ba 233.527†	136949.7	2.1595	mg/L	0.02208	2.1595	mg/L	0.02208	1.02%
Be 313.107†	8142.8	0.00992	mg/L	0.000091	0.00992	mg/L	0.000091	0.92%
Co 228.616†	4977.2	0.20499	mg/L	0.001849	0.20499	mg/L	0.001849	0.90%
Cr 267.716†	36538.2	0.65653	mg/L	0.007511	0.65653	mg/L	0.007511	1.14%
Cu 324.752†	132080.2	0.67821	mg/L	0.007857	0.67821	mg/L	0.007857	1.16%
Fe 273.955†	7329884.2	411.43	mg/L	2.238	411.43	mg/L	2.238	0.54%
Mg 279.077†	1315473.5	105.42	mg/L	0.617	105.42	mg/L	0.617	0.58%
Mn 257.610†	4304048.1	10.650	mg/L	0.0562	10.650	mg/L	0.0562	0.53%
Ni 231.604†	8146.4	0.44375	mg/L	0.004854	0.44375	mg/L	0.004854	1.09%
Pb 220.353†	1805.2	0.58370	mg/L	0.006620	0.58370	mg/L	0.006620	1.13%
Sb 206.836†	11.5	0.00296	mg/L	0.004908	0.00296	mg/L	0.004908	165.84%
Se 196.026†	-66.4	0.00665	mg/L	0.004834	0.00665	mg/L	0.004834	72.73%
Tl 190.801†	-47.7	-0.01561	mg/L	0.005215	-0.01561	mg/L	0.005215	33.40%
V 292.402†	33772.8	0.34924	mg/L	0.003738	0.34924	mg/L	0.003738	1.07%
Zn 206.200†	35659.8	2.2531	mg/L	0.02194	2.2531	mg/L	0.02194	0.97%
Cd 226.502†	1326.7	0.01627	mg/L	0.000311	0.01627	mg/L	0.000311	1.91%
Ti 334.940†	1409828.9	2.6732	mg/L	0.02391	2.6732	mg/L	0.02391	0.89%
Ca 227.546†	11161.5	89.078	mg/L	0.4233	89.078	mg/L	0.4233	0.48%
Na 589.592	10707.0	1.8880	mg/L	0.01620	1.8880	mg/L	0.01620	0.86%
K 766.490	38885.2	21.079	mg/L	0.1315	21.079	mg/L	0.1315	0.62%

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Sequence No.: 43 **Autosampler Location: 62**
Sample ID: N1937-08B~SED-LOCKC1-24- **Date Collected: 10/24/2014 11:27:22 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:26 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Mean Data: N1937-08B~SED-LOCKC1-24-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1751749.4	108.69	%	1.401				1.29%
Lu 261.542	945257.7	99.79	%	1.388				1.39%
Ag 328.068†	-533.7	-0.00154	mg/L	0.000519	-0.00154	mg/L	0.000519	33.74%
Al 308.215†	3648238.8	207.13	mg/L	3.358	207.13	mg/L	3.358	1.62%
As 188.979†	11.8	0.06407	mg/L	0.001167	0.06407	mg/L	0.001167	1.82%
Ba 233.527†	97597.0	1.5391	mg/L	0.02732	1.5391	mg/L	0.02732	1.78%
Be 313.107†	6735.3	0.00928	mg/L	0.000116	0.00928	mg/L	0.000116	1.25%
Co 228.616†	4616.9	0.18961	mg/L	0.002722	0.18961	mg/L	0.002722	1.44%
Cr 267.716†	34662.0	0.62259	mg/L	0.011712	0.62259	mg/L	0.011712	1.88%
Cu 324.752†	110775.7	0.57382	mg/L	0.010710	0.57382	mg/L	0.010710	1.87%
Fe 273.955†	7130767.1	400.25	mg/L	6.104	400.25	mg/L	6.104	1.53%
Mg 279.077†	1266457.3	101.49	mg/L	1.490	101.49	mg/L	1.490	1.47%
Mn 257.610†	4237376.4	10.485	mg/L	0.1678	10.485	mg/L	0.1678	1.60%
Ni 231.604†	7612.4	0.41453	mg/L	0.005797	0.41453	mg/L	0.005797	1.40%
Pb 220.353†	1657.2	0.53635	mg/L	0.006085	0.53635	mg/L	0.006085	1.13%
Sb 206.836†	11.1	0.00333	mg/L	0.003857	0.00333	mg/L	0.003857	116.01%
Se 196.026†	-67.3	0.00059	mg/L	0.019067	0.00059	mg/L	0.019067	>999.9%
Tl 190.801†	-42.5	-0.01046	mg/L	0.010457	-0.01046	mg/L	0.010457	100.00%
V 292.402†	31830.6	0.32942	mg/L	0.006145	0.32942	mg/L	0.006145	1.87%
Zn 206.200†	32684.0	2.0650	mg/L	0.03702	2.0650	mg/L	0.03702	1.79%
Cd 226.502†	1278.1	0.01542	mg/L	0.000948	0.01542	mg/L	0.000948	6.15%
Ti 334.940†	1436602.6	2.7240	mg/L	0.02469	2.7240	mg/L	0.02469	0.91%
Ca 227.546†	10821.7	86.391	mg/L	1.6936	86.391	mg/L	1.6936	1.96%
Na 589.592	10841.6	1.9117	mg/L	0.03363	1.9117	mg/L	0.03363	1.76%
K 766.490	35218.3	19.091	mg/L	0.2653	19.091	mg/L	0.2653	1.39%

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Sequence No.: 44 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/24/2014 11:31:06 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:27 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1647590.9	102.22	%	0.718				0.70%
Lu 261.542	974022.4	102.8	%	0.72				0.70%
Ag 328.068†	179452.4	1.2787	mg/L	0.00207	1.2787	mg/L	0.00207	0.16%
QC value within limits for Ag 328.068 Recovery = 102.29%								
Al 308.215†	179869.7	10.158	mg/L	0.0191	10.158	mg/L	0.0191	0.19%
QC value within limits for Al 308.215 Recovery = 101.58%								
As 188.979†	348.9	0.52652	mg/L	0.008900	0.52652	mg/L	0.008900	1.69%
QC value within limits for As 188.979 Recovery = 105.30%								
Ba 233.527†	654223.1	10.318	mg/L	0.0245	10.318	mg/L	0.0245	0.24%
QC value within limits for Ba 233.527 Recovery = 103.18%								
Be 313.107†	476941.7	0.25498	mg/L	0.000823	0.25498	mg/L	0.000823	0.32%
QC value within limits for Be 313.107 Recovery = 101.99%								
Co 228.616†	59887.7	2.5369	mg/L	0.06679	2.5369	mg/L	0.06679	2.63%
QC value within limits for Co 228.616 Recovery = 101.48%								
Cr 267.716†	55889.8	1.0134	mg/L	0.02954	1.0134	mg/L	0.02954	2.92%
QC value within limits for Cr 267.716 Recovery = 101.34%								
Cu 324.752†	254825.4	1.2374	mg/L	0.00311	1.2374	mg/L	0.00311	0.25%
QC value within limits for Cu 324.752 Recovery = 98.99%								
Fe 273.955†	91939.8	5.1598	mg/L	0.14577	5.1598	mg/L	0.14577	2.83%
QC value within limits for Fe 273.955 Recovery = 103.20%								
Mg 279.077†	329369.4	26.391	mg/L	0.0790	26.391	mg/L	0.0790	0.30%
QC value within limits for Mg 279.077 Recovery = 105.56%								
Mn 257.610†	1059347.4	2.6212	mg/L	0.00459	2.6212	mg/L	0.00459	0.18%
QC value within limits for Mn 257.610 Recovery = 104.85%								
Ni 231.604†	48057.8	2.6261	mg/L	0.07673	2.6261	mg/L	0.07673	2.92%
QC value within limits for Ni 231.604 Recovery = 105.04%								
Pb 220.353†	1627.9	0.51556	mg/L	0.007772	0.51556	mg/L	0.007772	1.51%

QC value within limits for Pb 220.353 Recovery = 103.11%

Sb 206.836†	501.1	0.47179 mg/L	0.008989	0.47179 mg/L	0.008989	1.91%
QC value within limits for Sb 206.836 Recovery = 94.36%							
Se 196.026†	232.4	0.50868 mg/L	0.006898	0.50868 mg/L	0.006898	1.36%
QC value within limits for Se 196.026 Recovery = 101.74%							
Tl 190.801†	411.7	0.48436 mg/L	0.014975	0.48436 mg/L	0.014975	3.09%
QC value within limits for Tl 190.801 Recovery = 96.87%							
V 292.402†	257942.8	2.5711 mg/L	0.00713	2.5711 mg/L	0.00713	0.28%
QC value within limits for V 292.402 Recovery = 102.84%							
Zn 206.200†	42382.3	2.6828 mg/L	0.07842	2.6828 mg/L	0.07842	2.92%
QC value within limits for Zn 206.200 Recovery = 107.31%							
Cd 226.502†	8133.3	0.26197 mg/L	0.006618	0.26197 mg/L	0.006618	2.53%
QC value within limits for Cd 226.502 Recovery = 104.79%							
Ti 334.940†	263787.5	0.50025 mg/L	0.003496	0.50025 mg/L	0.003496	0.70%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	3289.8	23.503 mg/L	0.2438	23.503 mg/L	0.2438	1.04%
QC value within limits for Ca 227.546 Recovery = 94.01%							
Na 589.592	152052.3	26.812 mg/L	0.3037	26.812 mg/L	0.3037	1.13%
QC value within limits for Na 589.592 Recovery = 107.25%							
K 766.490	49456.1	26.809 mg/L	0.3012	26.809 mg/L	0.3012	1.12%
QC value within limits for K 766.490 Recovery = 107.24%							

All analyte(s) passed QC.

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Sequence No.: 45 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/24/2014 11:34:48 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:27 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1684076.9	104.49	%	1.103				1.06%
Lu 261.542	997255.0	105.3	%	1.02				0.97%
Ag 328.068†	85.7	0.00061	mg/L	0.000738	0.00061	mg/L	0.000738	120.83%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-306.3	-0.01741	mg/L	0.008005	-0.01741	mg/L	0.008005	45.99%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.2	0.00325	mg/L	0.001588	0.00325	mg/L	0.001588	48.90%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	115.4	0.00182	mg/L	0.000646	0.00182	mg/L	0.000646	35.49%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	72.5	0.00004	mg/L	0.000005	0.00004	mg/L	0.000005	11.48%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	15.5	0.00066	mg/L	0.000240	0.00066	mg/L	0.000240	36.54%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-0.3	0.00000	mg/L	0.000091	0.00000	mg/L	0.000091	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	16.3	0.00008	mg/L	0.000170	0.00008	mg/L	0.000170	211.55%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	224.0	0.01258	mg/L	0.005684	0.01258	mg/L	0.005684	45.20%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	162.2	0.01300	mg/L	0.001894	0.01300	mg/L	0.001894	14.57%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	225.2	0.00056	mg/L	0.000280	0.00056	mg/L	0.000280	50.34%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	26.7	0.00146	mg/L	0.000186	0.00146	mg/L	0.000186	12.76%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	1.5	0.00047	mg/L	0.000636	0.00047	mg/L	0.000636	135.56%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	3.6	0.00350	mg/L	0.005205	0.00350	mg/L	0.005205	148.72%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-3.5	-0.00770	mg/L	0.004647	-0.00770	mg/L	0.004647	60.36%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	0.2	0.00028	mg/L	0.000497	0.00028	mg/L	0.000497	176.99%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	34.1	0.00034	mg/L	0.000622	0.00034	mg/L	0.000622	182.99%
QC value within limits for V 292.402 Recovery = Not calculated								

Zn 206.200†	23.2	0.00147 mg/L	0.000144	0.00147 mg/L	0.000144	9.84%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
Cd 226.502†	4.4	0.00014 mg/L	0.000056	0.00014 mg/L	0.000056	39.43%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Ti 334.940†	152.9	0.00029 mg/L	0.000119	0.00029 mg/L	0.000119	40.85%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	2.2	0.01641 mg/L	0.022883	0.01641 mg/L	0.022883	139.48%	
QC value within limits for Ca 227.546 Recovery = Not calculated							
Na 589.592	446.0	0.07865 mg/L	0.009721	0.07865 mg/L	0.009721	12.36%	
QC value within limits for Na 589.592 Recovery = Not calculated							
K 766.490	117.3	0.06358 mg/L	0.041029	0.06358 mg/L	0.041029	64.53%	
QC value within limits for K 766.490 Recovery = Not calculated							

All analyte(s) passed QC.

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Sequence No.: 46 **Autosampler Location: 63**
Sample ID: N1937-09B~SED-LOCKC1-24- **Date Collected: 10/24/2014 11:38:27 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:28 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-09B~SED-LOCKC1-24-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1734204.4	107.60	%	1.308				1.22%
Lu 261.542	946558.5	99.93	%	1.537				1.54%
Ag 328.068†	-717.4	-0.00267	mg/L	0.000671	-0.00267	mg/L	0.000671	25.09%
Al 308.215†	3918828.1	222.49	mg/L	3.661	222.49	mg/L	3.661	1.65%
As 188.979†	9.4	0.06317	mg/L	0.003555	0.06317	mg/L	0.003555	5.63%
Ba 233.527†	103609.1	1.6339	mg/L	0.02704	1.6339	mg/L	0.02704	1.65%
Be 313.107†	8468.5	0.01029	mg/L	0.000141	0.01029	mg/L	0.000141	1.37%
Co 228.616†	4906.8	0.20180	mg/L	0.002411	0.20180	mg/L	0.002411	1.19%
Cr 267.716†	29459.0	0.52759	mg/L	0.008187	0.52759	mg/L	0.008187	1.55%
Cu 324.752†	105091.7	0.54946	mg/L	0.008850	0.54946	mg/L	0.008850	1.61%
Fe 273.955†	7761234.4	435.64	mg/L	11.364	435.64	mg/L	11.364	2.61%
Mg 279.077†	1368617.8	109.68	mg/L	1.828	109.68	mg/L	1.828	1.67%
Mn 257.610†	4683945.1	11.590	mg/L	0.3047	11.590	mg/L	0.3047	2.63%
Ni 231.604†	7476.2	0.40706	mg/L	0.005898	0.40706	mg/L	0.005898	1.45%
Pb 220.353†	1503.1	0.48852	mg/L	0.008944	0.48852	mg/L	0.008944	1.83%
Sb 206.836†	10.4	0.00379	mg/L	0.002094	0.00379	mg/L	0.002094	55.27%
Se 196.026†	-66.7	0.01491	mg/L	0.002611	0.01491	mg/L	0.002611	17.51%
Tl 190.801†	-40.8	-0.00452	mg/L	0.005259	-0.00452	mg/L	0.005259	116.44%
V 292.402†	34226.0	0.35429	mg/L	0.006552	0.35429	mg/L	0.006552	1.85%
Zn 206.200†	33661.0	2.1262	mg/L	0.03258	2.1262	mg/L	0.03258	1.53%
Cd 226.502†	1274.4	0.01302	mg/L	0.000869	0.01302	mg/L	0.000869	6.67%
Ti 334.940†	1460072.4	2.7686	mg/L	0.02890	2.7686	mg/L	0.02890	1.04%
Ca 227.546†	12017.1	95.779	mg/L	2.5260	95.779	mg/L	2.5260	2.64%
Na 589.592	10539.1	1.8584	mg/L	0.02113	1.8584	mg/L	0.02113	1.14%
K 766.490	39741.4	21.543	mg/L	0.1549	21.543	mg/L	0.1549	0.72%

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Sequence No.: 47 **Autosampler Location: 64**
Sample ID: N1937-10B~SED-LOCKC1-FD0 **Date Collected: 10/24/2014 11:42:20 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:29 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-10B~SED-LOCKC1-FD0

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1727431.9	107.18	%	2.216				2.07%
Lu 261.542	934899.4	98.69	%	0.848				0.86%
Ag 328.068†	-900.7	-0.00339	mg/L	0.000419	-0.00339	mg/L	0.000419	12.34%
Al 308.215†	3741942.5	212.45	mg/L	4.358	212.45	mg/L	4.358	2.05%
As 188.979†	-2.8	0.04272	mg/L	0.009247	0.04272	mg/L	0.009247	21.64%
Ba 233.527†	74006.0	1.1672	mg/L	0.01795	1.1672	mg/L	0.01795	1.54%
Be 313.107†	9352.0	0.00893	mg/L	0.000116	0.00893	mg/L	0.000116	1.30%

Co 228.616†	4345.1	0.17994	mg/L	0.001230	0.17994	mg/L	0.001230	0.68%
Cr 267.716†	24298.3	0.43593	mg/L	0.005683	0.43593	mg/L	0.005683	1.30%
Cu 324.752†	100672.5	0.52818	mg/L	0.006903	0.52818	mg/L	0.006903	1.31%
Fe 273.955†	7794377.3	437.50	mg/L	0.856	437.50	mg/L	0.856	0.20%
Mg 279.077†	1538296.9	123.28	mg/L	2.745	123.28	mg/L	2.745	2.23%
Mn 257.610†	3354057.0	8.2990	mg/L	0.02234	8.2990	mg/L	0.02234	0.27%
Ni 231.604†	7080.3	0.38592	mg/L	0.002700	0.38592	mg/L	0.002700	0.70%
Pb 220.353†	1199.1	0.39123	mg/L	0.005178	0.39123	mg/L	0.005178	1.32%
Sb 206.836†	11.6	0.00435	mg/L	0.003935	0.00435	mg/L	0.003935	90.50%
Se 196.026†	-77.6	-0.00805	mg/L	0.013230	-0.00805	mg/L	0.013230	164.31%
Tl 190.801†	-46.1	-0.00808	mg/L	0.004488	-0.00808	mg/L	0.004488	55.58%
V 292.402†	32541.3	0.33822	mg/L	0.004598	0.33822	mg/L	0.004598	1.36%
Zn 206.200†	29667.2	1.8736	mg/L	0.02515	1.8736	mg/L	0.02515	1.34%
Cd 226.502†	1204.8	0.01066	mg/L	0.001334	0.01066	mg/L	0.001334	12.52%
Ti 334.940†	995813.4	1.8880	mg/L	0.04765	1.8880	mg/L	0.04765	2.52%
Ca 227.546†	9251.9	75.566	mg/L	1.2752	75.566	mg/L	1.2752	1.69%
Na 589.592	6960.5	1.2274	mg/L	0.02429	1.2274	mg/L	0.02429	1.98%
K 766.490	28750.1	15.585	mg/L	0.3109	15.585	mg/L	0.3109	1.99%

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Sequence No.: 48 **Autosampler Location: 65**
Sample ID: N1937-11B~SED-LOCKC1-31- **Date Collected: 10/24/2014 11:46:12 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:30 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-11B~SED-LOCKC1-31-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1735114.4	107.65	%	1.490				1.38%
Lu 261.542	961782.9	101.5	%	1.34				1.32%
Ag 328.068†	-544.2	-0.00148	mg/L	0.000712	-0.00148	mg/L	0.000712	48.13%
Al 308.215†	2685015.1	152.44	mg/L	1.095	152.44	mg/L	1.095	0.72%
As 188.979†	19.7	0.07050	mg/L	0.011602	0.07050	mg/L	0.011602	16.46%
Ba 233.527†	213515.3	3.3664	mg/L	0.08476	3.3664	mg/L	0.08476	2.52%
Be 313.107†	7733.6	0.00726	mg/L	0.000120	0.00726	mg/L	0.000120	1.65%
Co 228.616†	3840.8	0.15942	mg/L	0.002888	0.15942	mg/L	0.002888	1.81%
Cr 267.716†	44166.8	0.79736	mg/L	0.020103	0.79736	mg/L	0.020103	2.52%
Cu 324.752†	96337.7	0.49869	mg/L	0.011104	0.49869	mg/L	0.011104	2.23%
Fe 273.955†	6133137.4	344.26	mg/L	2.307	344.26	mg/L	2.307	0.67%
Mg 279.077†	1162346.0	93.147	mg/L	0.5733	93.147	mg/L	0.5733	0.62%
Mn 257.610†	2594413.4	6.4194	mg/L	0.03816	6.4194	mg/L	0.03816	0.59%
Ni 231.604†	6218.1	0.33902	mg/L	0.006212	0.33902	mg/L	0.006212	1.83%
Pb 220.353†	2175.6	0.69561	mg/L	0.010389	0.69561	mg/L	0.010389	1.49%
Sb 206.836†	9.7	-0.00183	mg/L	0.003530	-0.00183	mg/L	0.003530	192.45%
Se 196.026†	-55.9	0.00480	mg/L	0.006901	0.00480	mg/L	0.006901	143.71%
Tl 190.801†	-39.7	-0.01110	mg/L	0.000892	-0.01110	mg/L	0.000892	8.03%
V 292.402†	27380.3	0.28464	mg/L	0.006352	0.28464	mg/L	0.006352	2.23%
Zn 206.200†	30731.8	1.9431	mg/L	0.04727	1.9431	mg/L	0.04727	2.43%
Cd 226.502†	1165.7	0.01539	mg/L	0.000659	0.01539	mg/L	0.000659	4.28%
Ti 334.940†	792378.1	1.5025	mg/L	0.00529	1.5025	mg/L	0.00529	0.35%
Ca 227.546†	9000.0	72.036	mg/L	1.2629	72.036	mg/L	1.2629	1.75%
Na 589.592	9093.7	1.6035	mg/L	0.02346	1.6035	mg/L	0.02346	1.46%
K 766.490	27820.3	15.081	mg/L	0.2666	15.081	mg/L	0.2666	1.77%

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Sequence No.: 49 **Autosampler Location: 66**
Sample ID: N1937-12B~SED-LOCKC1-31- **Date Collected: 10/24/2014 11:49:56 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:30 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1937-12B~SED-LOCKC1-31-

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1740716.4	108.00	%	1.106				1.02%
Lu 261.542	956957.2	101.0	%	1.18				1.16%

Ag 328.068†	-427.5	-0.00117	mg/L	0.001077	-0.00117	mg/L	0.001077 91.85%
Al 308.215†	2553874.2	144.99	mg/L	0.590	144.99	mg/L	0.590 0.41%
As 188.979†	3.0	0.03823	mg/L	0.008372	0.03823	mg/L	0.008372 21.90%
Ba 233.527†	66798.3	1.0534	mg/L	0.02173	1.0534	mg/L	0.02173 2.06%
Be 313.107†	7155.7	0.00682	mg/L	0.000087	0.00682	mg/L	0.000087 1.28%
Co 228.616†	3444.2	0.14276	mg/L	0.002090	0.14276	mg/L	0.002090 1.46%
Cr 267.716†	18328.3	0.32844	mg/L	0.006362	0.32844	mg/L	0.006362 1.94%
Cu 324.752†	79347.1	0.41234	mg/L	0.009161	0.41234	mg/L	0.009161 2.22%
Fe 273.955†	5367576.9	301.28	mg/L	1.017	301.28	mg/L	1.017 0.34%
Mg 279.077†	1076403.6	86.262	mg/L	0.2079	86.262	mg/L	0.2079 0.24%
Mn 257.610†	2789852.0	6.9030	mg/L	0.02681	6.9030	mg/L	0.02681 0.39%
Ni 231.604†	4892.5	0.26660	mg/L	0.004455	0.26660	mg/L	0.004455 1.67%
Pb 220.353†	1168.7	0.37765	mg/L	0.004039	0.37765	mg/L	0.004039 1.07%
Sb 206.836†	5.8	0.00092	mg/L	0.006437	0.00092	mg/L	0.006437 701.78%
Se 196.026†	-50.8	0.00022	mg/L	0.011971	0.00022	mg/L	0.011971 >999.9%
Tl 190.801†	-37.5	-0.01334	mg/L	0.002372	-0.01334	mg/L	0.002372 17.78%
V 292.402†	22851.3	0.23723	mg/L	0.005638	0.23723	mg/L	0.005638 2.38%
Zn 206.200†	24724.4	1.5618	mg/L	0.03282	1.5618	mg/L	0.03282 2.10%
Cd 226.502†	873.6	0.00875	mg/L	0.000406	0.00875	mg/L	0.000406 4.64%
Ti 334.940†	759818.3	1.4410	mg/L	0.01216	1.4410	mg/L	0.01216 0.84%
Ca 227.546†	9927.3	78.069	mg/L	1.0088	78.069	mg/L	1.0088 1.29%
Na 589.592	5982.2	1.0548	mg/L	0.02145	1.0548	mg/L	0.02145 2.03%
K 766.490	25224.1	13.674	mg/L	0.2247	13.674	mg/L	0.2247 1.64%

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Sequence No.: 50 **Autosampler Location: 67**
Sample ID: N1943-01B~(211) TR-1 20X **Date Collected: 10/24/2014 11:53:40 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:31 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-01B~(211) TR-1 20X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1710843.7	106.15	%	1.003				0.95%
Lu 261.542	1012474.4	106.9	%	1.14				1.07%
Ag 328.068†	20.0	0.00014	mg/L	0.000984	0.00014	mg/L	0.000984	715.29%
Al 308.215†	83951.2	4.7604	mg/L	0.11218	4.7604	mg/L	0.11218	2.36%
As 188.979†	11.5	0.01955	mg/L	0.008770	0.01955	mg/L	0.008770	44.87%
Ba 233.527†	2938.2	0.04634	mg/L	0.000424	0.04634	mg/L	0.000424	0.92%
Be 313.107†	335.8	0.00024	mg/L	0.000012	0.00024	mg/L	0.000012	5.12%
Co 228.616†	123.5	0.00517	mg/L	0.000219	0.00517	mg/L	0.000219	4.23%
Cr 267.716†	391.7	0.00660	mg/L	0.000175	0.00660	mg/L	0.000175	2.65%
Cu 324.752†	7149.2	0.03600	mg/L	0.000479	0.03600	mg/L	0.000479	1.33%
Fe 273.955†	256966.3	14.424	mg/L	0.2747	14.424	mg/L	0.2747	1.90%
Mg 279.077†	38237.8	3.0644	mg/L	0.06079	3.0644	mg/L	0.06079	1.98%
Mn 257.610†	348197.3	0.86155	mg/L	0.014781	0.86155	mg/L	0.014781	1.72%
Ni 231.604†	284.2	0.01552	mg/L	0.000439	0.01552	mg/L	0.000439	2.83%
Pb 220.353†	43.7	0.01409	mg/L	0.000725	0.01409	mg/L	0.000725	5.14%
Sb 206.836†	-3.4	-0.00344	mg/L	0.003157	-0.00344	mg/L	0.003157	91.85%
Se 196.026†	-2.8	-0.00088	mg/L	0.001517	-0.00088	mg/L	0.001517	173.30%
Tl 190.801†	-3.3	-0.00250	mg/L	0.001195	-0.00250	mg/L	0.001195	47.81%
V 292.402†	943.8	0.00988	mg/L	0.000115	0.00988	mg/L	0.000115	1.16%
Zn 206.200†	1337.1	0.08448	mg/L	0.000833	0.08448	mg/L	0.000833	0.99%
Cd 226.502†	39.4	0.00034	mg/L	0.000079	0.00034	mg/L	0.000079	23.28%
Ti 334.940†	16104.8	0.03100	mg/L	0.000931	0.03100	mg/L	0.000931	3.00%
Ca 227.546†	4253.2	31.394	mg/L	0.3297	31.394	mg/L	0.3297	1.05%
Na 589.592	507.3	0.08945	mg/L	0.017370	0.08945	mg/L	0.017370	19.42%
K 766.490	915.2	0.49613	mg/L	0.041241	0.49613	mg/L	0.041241	8.31%

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Sequence No.: 51 **Autosampler Location: 68**
Sample ID: N1943-03B~(211) TR-3 20X **Date Collected: 10/24/2014 11:57:19 AM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:32 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-03B~(211) TR-3 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1582732.9	98.200	%	0.9649				0.98%
Lu 261.542	935184.8	98.72	%	1.014				1.03%
Ag 328.068†	-27.7	-0.00021	mg/L	0.000437	-0.00021	mg/L	0.000437	209.96%
Al 308.215†	99905.8	5.6609	mg/L	0.05282	5.6609	mg/L	0.05282	0.93%
As 188.979†	14.4	0.02527	mg/L	0.003389	0.02527	mg/L	0.003389	13.41%
Ba 233.527†	2927.3	0.04616	mg/L	0.000682	0.04616	mg/L	0.000682	1.48%
Be 313.107†	409.5	0.00029	mg/L	0.000030	0.00029	mg/L	0.000030	10.12%
Co 228.616†	161.4	0.00676	mg/L	0.000165	0.00676	mg/L	0.000165	2.43%
Cr 267.716†	436.2	0.00727	mg/L	0.000074	0.00727	mg/L	0.000074	1.02%
Cu 324.752†	16017.2	0.07937	mg/L	0.000585	0.07937	mg/L	0.000585	0.74%
Fe 273.955†	324078.2	18.191	mg/L	0.1314	18.191	mg/L	0.1314	0.72%
Mg 279.077†	73831.6	5.9169	mg/L	0.03245	5.9169	mg/L	0.03245	0.55%
Mn 257.610†	438978.7	1.0862	mg/L	0.00861	1.0862	mg/L	0.00861	0.79%
Ni 231.604†	439.0	0.02398	mg/L	0.000452	0.02398	mg/L	0.000452	1.89%
Pb 220.353†	54.8	0.01773	mg/L	0.001266	0.01773	mg/L	0.001266	7.14%
Sb 206.836†	-2.8	-0.00283	mg/L	0.003706	-0.00283	mg/L	0.003706	131.09%
Se 196.026†	-6.6	-0.00770	mg/L	0.006230	-0.00770	mg/L	0.006230	80.89%
Tl 190.801†	-7.3	-0.00689	mg/L	0.003394	-0.00689	mg/L	0.003394	49.26%
V 292.402†	925.0	0.00980	mg/L	0.000550	0.00980	mg/L	0.000550	5.60%
Zn 206.200†	2927.5	0.18501	mg/L	0.002785	0.18501	mg/L	0.002785	1.51%
Cd 226.502†	52.9	0.00054	mg/L	0.000128	0.00054	mg/L	0.000128	23.99%
Ti 334.940†	18872.4	0.03666	mg/L	0.000230	0.03666	mg/L	0.000230	0.63%
Ca 227.546†	7835.7	57.689	mg/L	0.4875	57.689	mg/L	0.4875	0.85%
Na 589.592	629.2	0.11095	mg/L	0.005857	0.11095	mg/L	0.005857	5.28%
K 766.490	924.3	0.50107	mg/L	0.036716	0.50107	mg/L	0.036716	7.33%

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Sequence No.: 52 **Autosampler Location: 69**
Sample ID: N1943-04B~(211) TR-4 20X **Date Collected: 10/24/2014 12:00:58 PM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:32 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-04B~(211) TR-4 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1653139.2	102.57	%	1.379				1.34%
Lu 261.542	978251.7	103.3	%	1.38				1.33%
Ag 328.068†	48.5	0.00060	mg/L	0.000207	0.00060	mg/L	0.000207	34.74%
Al 308.215†	153590.6	8.7184	mg/L	0.05117	8.7184	mg/L	0.05117	0.59%
As 188.979†	26.9	0.04400	mg/L	0.004836	0.04400	mg/L	0.004836	10.99%
Ba 233.527†	7738.9	0.12202	mg/L	0.001145	0.12202	mg/L	0.001145	0.94%
Be 313.107†	535.5	0.00040	mg/L	0.000033	0.00040	mg/L	0.000033	8.28%
Co 228.616†	373.8	0.01572	mg/L	0.000285	0.01572	mg/L	0.000285	1.81%
Cr 267.716†	724.3	0.01258	mg/L	0.000203	0.01258	mg/L	0.000203	1.62%
Cu 324.752†	40779.7	0.20175	mg/L	0.002147	0.20175	mg/L	0.002147	1.06%
Fe 273.955†	764074.2	42.889	mg/L	0.2531	42.889	mg/L	0.2531	0.59%
Mg 279.077†	57826.6	4.6342	mg/L	0.04890	4.6342	mg/L	0.04890	1.06%
Mn 257.610†	383452.7	0.94879	mg/L	0.005725	0.94879	mg/L	0.005725	0.60%
Ni 231.604†	882.6	0.04821	mg/L	0.001192	0.04821	mg/L	0.001192	2.47%
Pb 220.353†	219.4	0.06942	mg/L	0.000987	0.06942	mg/L	0.000987	1.42%
Sb 206.836†	0.6	0.00035	mg/L	0.002793	0.00035	mg/L	0.002793	802.73%
Se 196.026†	-5.2	0.00457	mg/L	0.001405	0.00457	mg/L	0.001405	30.74%
Tl 190.801†	-4.4	-0.00092	mg/L	0.003491	-0.00092	mg/L	0.003491	381.32%
V 292.402†	1374.0	0.01509	mg/L	0.000216	0.01509	mg/L	0.000216	1.43%
Zn 206.200†	4506.0	0.28477	mg/L	0.005655	0.28477	mg/L	0.005655	1.99%
Cd 226.502†	129.6	0.00142	mg/L	0.000159	0.00142	mg/L	0.000159	11.23%
Ti 334.940†	29244.9	0.05559	mg/L	0.000735	0.05559	mg/L	0.000735	1.32%
Ca 227.546†	1600.0	12.473	mg/L	0.2053	12.473	mg/L	0.2053	1.65%
Na 589.592	495.2	0.08732	mg/L	0.004401	0.08732	mg/L	0.004401	5.04%
K 766.490	1175.7	0.63732	mg/L	0.018682	0.63732	mg/L	0.018682	2.93%

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Sequence No.: 53 **Autosampler Location: 70**
Sample ID: N1943-06B~(211) TR-6 20X **Date Collected: 10/24/2014 12:04:37 PM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:33 PM**

Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: N1943-06B~(211) TR-6 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1702500.7	105.63	%	2.364				2.24%
Lu 261.542	1005844.0	106.2	%	2.48				2.33%
Ag 328.068†	58.5	0.00062	mg/L	0.000743	0.00062	mg/L	0.000743	120.69%
Al 308.215†	158340.8	8.9848	mg/L	0.17255	8.9848	mg/L	0.17255	1.92%
As 188.979†	47.9	0.07495	mg/L	0.005500	0.07495	mg/L	0.005500	7.34%
Ba 233.527†	5335.6	0.08414	mg/L	0.002168	0.08414	mg/L	0.002168	2.58%
Be 313.107†	601.3	0.00043	mg/L	0.000008	0.00043	mg/L	0.000008	1.95%
Co 228.616†	247.8	0.01038	mg/L	0.000488	0.01038	mg/L	0.000488	4.70%
Cr 267.716†	809.9	0.01416	mg/L	0.000504	0.01416	mg/L	0.000504	3.56%
Cu 324.752†	13582.7	0.06913	mg/L	0.002228	0.06913	mg/L	0.002228	3.22%
Fe 273.955†	634454.4	35.613	mg/L	0.6726	35.613	mg/L	0.6726	1.89%
Mg 279.077†	59799.0	4.7922	mg/L	0.11548	4.7922	mg/L	0.11548	2.41%
Mn 257.610†	365846.6	0.90522	mg/L	0.016585	0.90522	mg/L	0.016585	1.83%
Ni 231.604†	533.4	0.02912	mg/L	0.000805	0.02912	mg/L	0.000805	2.76%
Pb 220.353†	72.8	0.02336	mg/L	0.002654	0.02336	mg/L	0.002654	11.36%
Sb 206.836†	-0.8	-0.00107	mg/L	0.005468	-0.00107	mg/L	0.005468	508.92%
Se 196.026†	-7.6	-0.00339	mg/L	0.012412	-0.00339	mg/L	0.012412	366.61%
Tl 190.801†	-3.6	-0.00046	mg/L	0.003973	-0.00046	mg/L	0.003973	864.44%
V 292.402†	1538.7	0.01652	mg/L	0.000351	0.01652	mg/L	0.000351	2.13%
Zn 206.200†	3154.0	0.19930	mg/L	0.005142	0.19930	mg/L	0.005142	2.58%
Cd 226.502†	98.6	0.00088	mg/L	0.000282	0.00088	mg/L	0.000282	31.99%
Ti 334.940†	28281.5	0.05402	mg/L	0.001735	0.05402	mg/L	0.001735	3.21%
Ca 227.546†	3859.6	28.889	mg/L	0.7426	28.889	mg/L	0.7426	2.57%
Na 589.592	690.0	0.12167	mg/L	0.015249	0.12167	mg/L	0.015249	12.53%
K 766.490	1300.1	0.70475	mg/L	0.030464	0.70475	mg/L	0.030464	4.32%

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Sequence No.: 54 Autosampler Location: 71
Sample ID: N1943-06BDUP~(211) 20X Date Collected: 10/24/2014 12:08:19 PM
Analyst: Data Type: Reprocessed on 10/24/2014 1:55:34 PM
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: N1943-06BDUP~(211) 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1632355.6	101.28	%	1.016				1.00%
Lu 261.542	963902.8	101.8	%	0.97				0.95%
Ag 328.068†	61.5	0.00039	mg/L	0.000077	0.00039	mg/L	0.000077	20.01%
Al 308.215†	120987.8	6.8657	mg/L	0.01961	6.8657	mg/L	0.01961	0.29%
As 188.979†	13.7	0.02327	mg/L	0.002441	0.02327	mg/L	0.002441	10.49%
Ba 233.527†	5905.9	0.09312	mg/L	0.000469	0.09312	mg/L	0.000469	0.50%
Be 313.107†	513.4	0.00036	mg/L	0.000024	0.00036	mg/L	0.000024	6.71%
Co 228.616†	220.8	0.00927	mg/L	0.000411	0.00927	mg/L	0.000411	4.43%
Cr 267.716†	543.6	0.00892	mg/L	0.000109	0.00892	mg/L	0.000109	1.22%
Cu 324.752†	17116.2	0.08513	mg/L	0.000669	0.08513	mg/L	0.000669	0.79%
Fe 273.955†	409332.9	22.977	mg/L	0.0985	22.977	mg/L	0.0985	0.43%
Mg 279.077†	55352.2	4.4359	mg/L	0.00675	4.4359	mg/L	0.00675	0.15%
Mn 257.610†	645304.7	1.5967	mg/L	0.00796	1.5967	mg/L	0.00796	0.50%
Ni 231.604†	470.0	0.02567	mg/L	0.000310	0.02567	mg/L	0.000310	1.21%
Pb 220.353†	56.7	0.01811	mg/L	0.000825	0.01811	mg/L	0.000825	4.55%
Sb 206.836†	-0.7	-0.00087	mg/L	0.004612	-0.00087	mg/L	0.004612	533.01%
Se 196.026†	-7.6	-0.00805	mg/L	0.002774	-0.00805	mg/L	0.002774	34.46%
Tl 190.801†	-2.9	-0.00153	mg/L	0.001496	-0.00153	mg/L	0.001496	97.55%
V 292.402†	1134.4	0.01205	mg/L	0.000516	0.01205	mg/L	0.000516	4.28%
Zn 206.200†	4506.8	0.28485	mg/L	0.002618	0.28485	mg/L	0.002618	0.92%
Cd 226.502†	82.2	0.00117	mg/L	0.000143	0.00117	mg/L	0.000143	12.26%
Ti 334.940†	21302.9	0.04066	mg/L	0.000446	0.04066	mg/L	0.000446	1.10%
Ca 227.546†	2640.6	19.740	mg/L	0.1335	19.740	mg/L	0.1335	0.68%
Na 589.592	534.2	0.09419	mg/L	0.006763	0.09419	mg/L	0.006763	7.18%
K 766.490	1106.4	0.59978	mg/L	0.070166	0.59978	mg/L	0.070166	11.70%

Sequence No.: 55 **Autosampler Location: 72**
Sample ID: N1943-06BSD~(211) 20X **Date Collected: 10/24/2014 12:11:58 PM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:35 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: N1943-06BSD~(211) 20X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1666067.7	103.37	%	2.948				2.85%
Lu 261.542	988416.4	104.3	%	2.99				2.86%
Ag 328.068†	108.9	0.00082	mg/L	0.001612	0.00082	mg/L	0.001612	197.23%
Al 308.215†	31441.3	1.7840	mg/L	0.08863	1.7840	mg/L	0.08863	4.97%
As 188.979†	12.0	0.01866	mg/L	0.004118	0.01866	mg/L	0.004118	22.07%
Ba 233.527†	1115.1	0.01758	mg/L	0.000620	0.01758	mg/L	0.000620	3.52%
Be 313.107†	129.9	0.00009	mg/L	0.000011	0.00009	mg/L	0.000011	12.24%
Co 228.616†	56.0	0.00235	mg/L	0.000125	0.00235	mg/L	0.000125	5.31%
Cr 267.716†	172.6	0.00302	mg/L	0.000130	0.00302	mg/L	0.000130	4.30%
Cu 324.752†	2670.4	0.01363	mg/L	0.001133	0.01363	mg/L	0.001133	8.32%
Fe 273.955†	131501.0	7.3814	mg/L	0.29183	7.3814	mg/L	0.29183	3.95%
Mg 279.077†	12299.1	0.98564	mg/L	0.041165	0.98564	mg/L	0.041165	4.18%
Mn 257.610†	75859.6	0.18770	mg/L	0.007343	0.18770	mg/L	0.007343	3.91%
Ni 231.604†	119.9	0.00654	mg/L	0.000357	0.00654	mg/L	0.000357	5.46%
Pb 220.353†	12.4	0.00398	mg/L	0.000464	0.00398	mg/L	0.000464	11.66%
Sb 206.836†	-1.3	-0.00135	mg/L	0.000888	-0.00135	mg/L	0.000888	65.97%
Se 196.026†	-0.6	0.00135	mg/L	0.008144	0.00135	mg/L	0.008144	601.97%
Tl 190.801†	0.5	0.00148	mg/L	0.005391	0.00148	mg/L	0.005391	364.92%
V 292.402†	301.1	0.00325	mg/L	0.000424	0.00325	mg/L	0.000424	13.06%
Zn 206.200†	685.8	0.04334	mg/L	0.001466	0.04334	mg/L	0.001466	3.38%
Cd 226.502†	24.5	0.00031	mg/L	0.000111	0.00031	mg/L	0.000111	35.51%
Ti 334.940†	5993.6	0.01145	mg/L	0.000557	0.01145	mg/L	0.000557	4.87%
Ca 227.546†	800.1	5.9890	mg/L	0.21175	5.9890	mg/L	0.21175	3.54%
Na 589.592	312.6	0.05511	mg/L	0.012207	0.05511	mg/L	0.012207	22.15%
K 766.490	322.1	0.17459	mg/L	0.025921	0.17459	mg/L	0.025921	14.85%

Sequence No.: 56 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/24/2014 12:15:37 PM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:35 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1674254.8	103.88	%	2.479				2.39%
Lu 261.542	999671.3	105.5	%	2.52				2.39%
Ag 328.068†	170932.1	1.2180	mg/L	0.02730	1.2180	mg/L	0.02730	2.24%
QC value within limits for Ag 328.068 Recovery = 97.44%								
Al 308.215†	170615.6	9.6353	mg/L	0.25016	9.6353	mg/L	0.25016	2.60%
QC value within limits for Al 308.215 Recovery = 96.35%								
As 188.979†	333.6	0.50334	mg/L	0.011526	0.50334	mg/L	0.011526	2.29%
QC value within limits for As 188.979 Recovery = 100.67%								
Ba 233.527†	620797.0	9.7909	mg/L	0.24148	9.7909	mg/L	0.24148	2.47%
QC value within limits for Ba 233.527 Recovery = 97.91%								
Be 313.107†	451443.0	0.24135	mg/L	0.006784	0.24135	mg/L	0.006784	2.81%
QC value within limits for Be 313.107 Recovery = 96.54%								
Co 228.616†	56647.6	2.3996	mg/L	0.07884	2.3996	mg/L	0.07884	3.29%
QC value within limits for Co 228.616 Recovery = 95.99%								
Cr 267.716†	52730.5	0.95615	mg/L	0.032168	0.95615	mg/L	0.032168	3.36%
QC value within limits for Cr 267.716 Recovery = 95.61%								
Cu 324.752†	241297.3	1.1717	mg/L	0.03185	1.1717	mg/L	0.03185	2.72%
QC value within limits for Cu 324.752 Recovery = 93.74%								
Fe 273.955†	86762.7	4.8692	mg/L	0.15244	4.8692	mg/L	0.15244	3.13%
QC value within limits for Fe 273.955 Recovery = 97.38%								

Mg 279.077†	313378.7	25.109 mg/L	0.6287	25.109 mg/L	0.6287	2.50%
QC value within limits for Mg 279.077 Recovery = 100.44%						
Mn 257.610†	1002872.4	2.4814 mg/L	0.06131	2.4814 mg/L	0.06131	2.47%
QC value within limits for Mn 257.610 Recovery = 99.26%						
Ni 231.604†	45353.9	2.4784 mg/L	0.07878	2.4784 mg/L	0.07878	3.18%
QC value within limits for Ni 231.604 Recovery = 99.13%						
Pb 220.353†	1553.7	0.49204 mg/L	0.014228	0.49204 mg/L	0.014228	2.89%
QC value within limits for Pb 220.353 Recovery = 98.41%						
Sb 206.836†	482.4	0.45435 mg/L	0.014006	0.45435 mg/L	0.014006	3.08%
QC value within limits for Sb 206.836 Recovery = 90.87%						
Se 196.026†	221.8	0.48539 mg/L	0.015068	0.48539 mg/L	0.015068	3.10%
QC value within limits for Se 196.026 Recovery = 97.08%						
Tl 190.801†	391.0	0.46003 mg/L	0.014473	0.46003 mg/L	0.014473	3.15%
QC value within limits for Tl 190.801 Recovery = 92.01%						
V 292.402†	244995.7	2.4420 mg/L	0.06405	2.4420 mg/L	0.06405	2.62%
QC value within limits for V 292.402 Recovery = 97.68%						
Zn 206.200†	40019.3	2.5332 mg/L	0.08398	2.5332 mg/L	0.08398	3.32%
QC value within limits for Zn 206.200 Recovery = 101.33%						
Cd 226.502†	7700.9	0.24804 mg/L	0.007671	0.24804 mg/L	0.007671	3.09%
QC value within limits for Cd 226.502 Recovery = 99.22%						
Ti 334.940†	249357.5	0.47289 mg/L	0.014821	0.47289 mg/L	0.014821	3.13%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	3176.0	22.701 mg/L	0.6859	22.701 mg/L	0.6859	3.02%
QC value within limits for Ca 227.546 Recovery = 90.80%						
Na 589.592	149054.8	26.283 mg/L	0.3339	26.283 mg/L	0.3339	1.27%
QC value within limits for Na 589.592 Recovery = 105.13%						
K 766.490	48543.1	26.314 mg/L	0.3720	26.314 mg/L	0.3720	1.41%
QC value within limits for K 766.490 Recovery = 105.26%						

All analyte(s) passed QC.

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Sequence No.: 57 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/24/2014 12:19:18 PM**
Analyst: **Data Type: Reprocessed on 10/24/2014 1:55:36 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1696489.7	105.26	%	1.392				1.32%
Lu 261.542	1005197.8	106.1	%	1.44				1.36%
Ag 328.068†	115.2	0.00082	mg/L	0.000788	0.00082	mg/L	0.000788	96.09%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-476.0	-0.02703	mg/L	0.005090	-0.02703	mg/L	0.005090	18.83%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.0	0.00147	mg/L	0.004350	0.00147	mg/L	0.004350	295.93%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	51.8	0.00082	mg/L	0.000314	0.00082	mg/L	0.000314	38.50%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	22.6	0.00001	mg/L	0.000041	0.00001	mg/L	0.000041	333.07%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	5.7	0.00024	mg/L	0.000269	0.00024	mg/L	0.000269	112.10%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-2.5	-0.00004	mg/L	0.000201	-0.00004	mg/L	0.000201	451.23%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-95.5	-0.00046	mg/L	0.000077	-0.00046	mg/L	0.000077	16.73%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	72.9	0.00409	mg/L	0.000723	0.00409	mg/L	0.000723	17.64%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	116.3	0.00932	mg/L	0.004423	0.00932	mg/L	0.004423	47.45%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	20.2	0.00005	mg/L	0.000089	0.00005	mg/L	0.000089	178.77%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	13.5	0.00074	mg/L	0.000402	0.00074	mg/L	0.000402	54.39%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-2.6	-0.00083	mg/L	0.002191	-0.00083	mg/L	0.002191	262.44%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	2.8	0.00267	mg/L	0.001411	0.00267	mg/L	0.001411	52.81%

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   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -1.4    -0.00298 mg/L      0.000667    -0.00298 mg/L      0.000667  22.37%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†               -5.2    -0.00649 mg/L      0.004487    -0.00649 mg/L      0.004487  69.09%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†                14.4     0.00014 mg/L      0.000232     0.00014 mg/L      0.000232 161.80%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†               21.8     0.00138 mg/L      0.000248     0.00138 mg/L      0.000248  17.98%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†                4.0     0.00013 mg/L      0.000121     0.00013 mg/L      0.000121  94.68%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†               91.3     0.00017 mg/L      0.000070     0.00017 mg/L      0.000070  40.22%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†               -1.3    -0.00979 mg/L      0.087823    -0.00979 mg/L      0.087823 897.00%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592               345.3     0.06090 mg/L      0.017238     0.06090 mg/L      0.017238  28.31%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490                156.5     0.08486 mg/L      0.015542     0.08486 mg/L      0.015542  18.31%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.
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Analysis Begun

Logged In Analyst: mitFIMS2 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\Administrator\Sample Information\1027A.sif
Batch ID: Null
Results Data Set: HG14102701
Results Library: C:\data-AA\Administrator\Results\Results.mdb

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Method Loaded
Method Name: Comm Hg **Method Last Saved: 7/16/2014 10:14:00 AM**
Method Description: Hg Analysis by Cold Vapor AA

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin Thru 0	253.7

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 10/27/2014 1:23:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0003	-0.0022	0.0003	13:24:19	Yes
2		[0.00]	0.0002	-0.0056	0.0002	13:24:59	Yes
Mean:		[0.00]	0.0003				
SD:		0.00	0.0000				
%RSD:		0.00	3.38				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S0.2 **Date Collected: 10/27/2014 1:25:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0029	0.0096	0.0032	13:25:59	Yes
2		[0.2]	0.0029	0.0108	0.0032	13:26:39	Yes
Mean:		[0.2]	0.0029				
SD:		0.0	0.0000				
%RSD:		0.0	0.13				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01471 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S1.0 **Date Collected: 10/27/2014 1:26:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.0155	0.0600	0.0157	13:27:39	Yes
2		[1.0]	0.0154	0.0614	0.0157	13:28:19	Yes
Mean:		[1.0]	0.0154				

SD: 0.0 0.0000
%RSD: 0.0 0.11
Standard number 2 applied. [1.0]
Correlation Coef.: 0.999863 Slope: 0.01542 Intercept: 0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S2.0 **Date Collected: 10/27/2014 1:28:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S2.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0305	0.1228	0.0308	13:29:19	Yes
2		[2.0]	0.0306	0.1235	0.0308	13:29:58	Yes
Mean:		[2.0]	0.0305				
SD:		0.0	0.0000				
%RSD:		0.0	0.09				

Standard number 3 applied. [2.0]
Correlation Coef.: 0.999951 Slope: 0.01530 Intercept: 0.00000

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S5.0 **Date Collected: 10/27/2014 1:30:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S5.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0770	0.3147	0.0773	13:30:58	Yes
2		[5.0]	0.0762	0.3124	0.0764	13:31:37	Yes
Mean:		[5.0]	0.0766				
SD:		0.0	0.0006				
%RSD:		0.0	0.80				

Standard number 4 applied. [5.0]
Correlation Coef.: 0.999994 Slope: 0.01532 Intercept: 0.00000

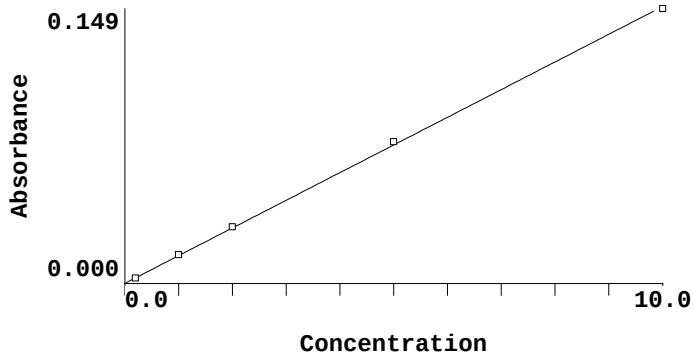
==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: S10.0 **Date Collected: 10/27/2014 1:31:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1492	0.6174	0.1494	13:32:37	Yes
2		[10.0]	0.1483	0.6136	0.1486	13:33:17	Yes
Mean:		[10.0]	0.1487				
SD:		0.0	0.0006				
%RSD:		0.0	0.41				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999838 Slope: 0.01498 Intercept: 0.00000



Calibration data for Hg 253.7 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.000	0.00	3.4
S0.2	0.0029	0.2	0.196	0.00	0.1
S1.0	0.0154	1.0	1.031	0.00	0.1
S2.0	0.0305	2.0	2.040	0.00	0.1
S5.0	0.0766	5.0	5.115	0.00	0.8
S10.0	0.1487	10.0	9.930	0.00	0.4

Correlation Coef.: 0.999838 Slope: 0.01498 Intercept: 0.00000

==========

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 10/27/2014 1:33:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.091	5.091	0.0763	0.3158	0.0765	13:34:17	Yes
2	5.056	5.056	0.0757	0.3116	0.0760	13:34:57	Yes
Mean:	5.073	5.073	0.0760				
SD:	0.025	0.025	0.0004				
%RSD:	0.496	0.496	0.50				

QC value within limits for Hg 253.7 Recovery = 101.47%
All analyte(s) passed QC.

==========

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 10/27/2014 1:34:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.011	0.011	0.0002	-0.0010	0.0004	13:35:59	Yes
2	0.017	0.017	0.0003	-0.0006	0.0005	13:36:39	Yes
Mean:	0.014	0.014	0.0002				
SD:	0.004	0.004	0.0001				
%RSD:	29.65	29.65	29.65				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 9 **Autosampler Location: 17**
Sample ID: MB-79681 **Date Collected: 10/27/2014 1:36:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-79681

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.013	-0.013	-0.0002	-0.0030	0.0001	13:37:39	Yes
2	-0.014	-0.014	-0.0002	-0.0035	0.0000	13:38:19	Yes
Mean:	-0.014	-0.014	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	5.117	5.117	5.12				

==========

Sequence No.: 10 **Autosampler Location: 18**
Sample ID: LCS-79681 **Date Collected: 10/27/2014 1:38:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LCS-79681

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.569	4.569	0.0684	0.2852	0.0687	13:39:19	Yes
2	4.534	4.534	0.0679	0.2826	0.0682	13:39:59	Yes
Mean:	4.551	4.551	0.0682				
SD:	0.025	0.025	0.0004				
%RSD:	0.547	0.547	0.55				

==========

Sequence No.: 11 **Autosampler Location: 19**
Sample ID: N1894-01B **Date Collected: 10/27/2014 1:40:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-01B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.270	0.270	0.0040	0.0165	0.0043	13:40:58	Yes
2	0.268	0.268	0.0040	0.0154	0.0043	13:41:38	Yes
Mean:	0.269	0.269	0.0040				
SD:	0.001	0.001	0.0000				
%RSD:	0.517	0.517	0.52				

==========

Sequence No.: 12 **Autosampler Location: 20**
Sample ID: N1894-02B **Date Collected: 10/27/2014 1:41:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-02B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.344	0.344	0.0052	0.0211	0.0054	13:42:38	Yes
2	0.339	0.339	0.0051	0.0209	0.0053	13:43:18	Yes
Mean:	0.342	0.342	0.0051				
SD:	0.004	0.004	0.0001				
%RSD:	1.035	1.035	1.04				

==========

Sequence No.: 13 **Autosampler Location: 21**
Sample ID: N1894-03B **Date Collected: 10/27/2014 1:43:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-03B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.170	0.170	0.0025	0.0106	0.0028	13:44:17	Yes
2	0.168	0.168	0.0025	0.0094	0.0028	13:44:57	Yes
Mean:	0.169	0.169	0.0025				
SD:	0.001	0.001	0.0000				
%RSD:	0.526	0.526	0.53				

Sequence No.: 14 **Autosampler Location: 22**
Sample ID: N1894-04B **Date Collected: 10/27/2014 1:44:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-04B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.454	0.454	0.0068	0.0257	0.0071	13:45:56	Yes
2	0.449	0.449	0.0067	0.0285	0.0070	13:46:36	Yes
Mean:	0.452	0.452	0.0068				
SD:	0.003	0.003	0.0001				
%RSD:	0.749	0.749	0.75				

Sequence No.: 15 **Autosampler Location: 23**
Sample ID: N1894-05B **Date Collected: 10/27/2014 1:46:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-05B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.424	0.424	0.0064	0.0266	0.0066	13:47:36	Yes
2	0.417	0.417	0.0063	0.0244	0.0065	13:48:15	Yes
Mean:	0.421	0.421	0.0063				
SD:	0.005	0.005	0.0001				
%RSD:	1.161	1.161	1.16				

Sequence No.: 16 **Autosampler Location: 24**
Sample ID: N1894-05BDUP **Date Collected: 10/27/2014 1:48:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-05BDUP

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.421	0.421	0.0063	0.0269	0.0066	13:49:15	Yes
2	0.414	0.414	0.0062	0.0245	0.0065	13:49:55	Yes
Mean:	0.417	0.417	0.0063				
SD:	0.005	0.005	0.0001				
%RSD:	1.131	1.131	1.13				

Sequence No.: 17 **Autosampler Location: 25**
Sample ID: N1894-05BMS **Date Collected: 10/27/2014 1:49:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-05BMS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.022	4.022	0.0602	0.2606	0.0605	13:50:55	Yes

2	4.003	4.003	0.0600	0.2589	0.0602	13:51:34	Yes
Mean:	4.013	4.013	0.0601				
SD:	0.013	0.013	0.0002				
%RSD:	0.332	0.332	0.33				

Sequence No.: 18 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 10/27/2014 1:51:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.009	5.009	0.0750	0.3231	0.0753	13:52:35	Yes
2	4.947	4.947	0.0741	0.3204	0.0743	13:53:15	Yes
Mean:	4.978	4.978	0.0746				
SD:	0.044	0.044	0.0007				
%RSD:	0.891	0.891	0.89				

QC value within limits for Hg 253.7 Recovery = 99.56%
All analyte(s) passed QC.

Sequence No.: 19 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/27/2014 1:53:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.012	0.012	0.0002	-0.0000	0.0004	13:54:17	Yes
2	0.018	0.018	0.0003	0.0008	0.0005	13:54:56	Yes
Mean:	0.015	0.015	0.0002				
SD:	0.004	0.004	0.0001				
%RSD:	26.10	26.10	26.10				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 20 **Autosampler Location: 26**
Sample ID: N1894-06B **Date Collected: 10/27/2014 1:54:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-06B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.259	0.259	0.0039	0.0169	0.0041	13:55:59	Yes
2	0.258	0.258	0.0039	0.0161	0.0041	13:56:38	Yes
Mean:	0.259	0.259	0.0039				
SD:	0.001	0.001	0.0000				
%RSD:	0.245	0.245	0.25				

Sequence No.: 21 **Autosampler Location: 27**
Sample ID: N1894-07B **Date Collected: 10/27/2014 1:56:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-07B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.405	0.405	0.0061	0.0261	0.0063	13:57:38	Yes
2	0.402	0.402	0.0060	0.0257	0.0063	13:58:18	Yes
Mean:	0.404	0.404	0.0060				
SD:	0.002	0.002	0.0000				
%RSD:	0.542	0.542	0.54				

Sequence No.: 22 **Autosampler Location: 28**
Sample ID: N1894-08B **Date Collected: 10/27/2014 1:58:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-08B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.101	0.101	0.0015	0.0061	0.0018	13:59:17	Yes
2	0.102	0.102	0.0015	0.0060	0.0018	13:59:57	Yes
Mean:	0.101	0.101	0.0015				
SD:	0.001	0.001	0.0000				
%RSD:	0.810	0.810	0.81				

Sequence No.: 23 **Autosampler Location: 29**
Sample ID: N1894-09B **Date Collected: 10/27/2014 1:59:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1894-09B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.136	0.136	0.0020	0.0098	0.0023	14:00:56	Yes
2	0.132	0.132	0.0020	0.0103	0.0022	14:01:36	Yes
Mean:	0.134	0.134	0.0020				
SD:	0.002	0.002	0.0000				
%RSD:	1.640	1.640	1.64				

Sequence No.: 24 **Autosampler Location: 30**
Sample ID: MB-79682 **Date Collected: 10/27/2014 2:01:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-79682

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.008	-0.008	-0.0001	-0.0012	0.0001	14:02:35	Yes
2	-0.009	-0.009	-0.0001	-0.0012	0.0001	14:03:15	Yes
Mean:	-0.008	-0.008	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	5.035	5.035	5.04				

Sequence No.: 25 **Autosampler Location: 31**
Sample ID: LCS-79682 **Date Collected: 10/27/2014 2:03:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LCS-79682

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.458	4.458	0.0668	0.2912	0.0670	14:04:15	Yes
2	4.454	4.454	0.0667	0.2902	0.0670	14:04:55	Yes
Mean:	4.456	4.456	0.0667				

SD:	0.003	0.003	0.0000
%RSD:	0.070	0.070	0.07

==========

Sequence No.: 26 **Autosampler Location: 32**
Sample ID: N1937-01B **Date Collected: 10/27/2014 2:04:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-01B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.110	0.110	0.0016	0.0074	0.0019	14:05:58	Yes
2	0.104	0.104	0.0016	0.0057	0.0018	14:06:37	Yes
Mean:	0.107	0.107	0.0016				
SD:	0.004	0.004	0.0001				
%RSD:	4.156	4.156	4.16				

==========

Sequence No.: 27 **Autosampler Location: 33**
Sample ID: N1937-02B **Date Collected: 10/27/2014 2:06:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-02B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.132	0.132	0.0020	0.0085	0.0022	14:07:37	Yes
2	0.134	0.134	0.0020	0.0077	0.0023	14:08:17	Yes
Mean:	0.133	0.133	0.0020				
SD:	0.002	0.002	0.0000				
%RSD:	1.205	1.205	1.20				

==========

Sequence No.: 28 **Autosampler Location: 34**
Sample ID: N1937-03B **Date Collected: 10/27/2014 2:08:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-03B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.097	0.097	0.0014	0.0062	0.0017	14:09:16	Yes
2	0.092	0.092	0.0014	0.0045	0.0016	14:09:56	Yes
Mean:	0.094	0.094	0.0014				
SD:	0.004	0.004	0.0001				
%RSD:	3.785	3.785	3.78				

==========

Sequence No.: 29 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 10/27/2014 2:09:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.889	4.889	0.0732	0.3218	0.0735	14:10:59	Yes
2	4.919	4.919	0.0737	0.3248	0.0739	14:11:39	Yes
Mean:	4.904	4.904	0.0734				
SD:	0.021	0.021	0.0003				
%RSD:	0.432	0.432	0.43				

QC value within limits for Hg 253.7 Recovery = 98.07%

All analyte(s) passed QC.

==========

Sequence No.: 30 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/27/2014 2:11:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	0.0003	-0.0002	0.0005	14:12:41	Yes
2	0.022	0.022	0.0003	0.0013	0.0006	14:13:21	Yes
Mean:	0.020	0.020	0.0003				
SD:	0.003	0.003	0.0001				
%RSD:	16.92	16.92	16.92				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 31 **Autosampler Location: 35**
Sample ID: N1937-04B **Date Collected: 10/27/2014 2:13:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-04B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.176	0.176	0.0026	0.0110	0.0029	14:14:22	Yes
2	0.176	0.176	0.0026	0.0109	0.0029	14:15:01	Yes
Mean:	0.176	0.176	0.0026				
SD:	0.000	0.000	0.0000				
%RSD:	0.044	0.044	0.04				

==========

Sequence No.: 32 **Autosampler Location: 36**
Sample ID: N1937-05B **Date Collected: 10/27/2014 2:15:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-05B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.130	0.130	0.0019	0.0073	0.0022	14:16:01	Yes
2	0.129	0.129	0.0019	0.0076	0.0022	14:16:41	Yes
Mean:	0.130	0.130	0.0019				
SD:	0.000	0.000	0.0000				
%RSD:	0.229	0.229	0.23				

==========

Sequence No.: 33 **Autosampler Location: 37**
Sample ID: N1937-06B **Date Collected: 10/27/2014 2:16:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-06B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.259	0.259	0.0039	0.0174	0.0041	14:17:40	Yes
2	0.262	0.262	0.0039	0.0158	0.0042	14:18:20	Yes
Mean:	0.260	0.260	0.0039				
SD:	0.002	0.002	0.0000				
%RSD:	0.815	0.815	0.81				

==========

Sequence No.: 34 **Autosampler Location: 38**
Sample ID: N1937-07B **Date Collected: 10/27/2014 2:18:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-07B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.394	0.394	0.0059	0.0262	0.0062	14:19:19	Yes
2	0.394	0.394	0.0059	0.0256	0.0061	14:19:59	Yes
Mean:	0.394	0.394	0.0059				
SD:	0.000	0.000	0.0000				
%RSD:	0.104	0.104	0.10				

==========

Sequence No.: 35 **Autosampler Location: 39**
Sample ID: N1937-08B **Date Collected: 10/27/2014 2:20:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-08B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.357	0.357	0.0053	0.0219	0.0056	14:20:58	Yes
2	0.369	0.369	0.0055	0.0219	0.0058	14:21:38	Yes
Mean:	0.363	0.363	0.0054				
SD:	0.009	0.009	0.0001				
%RSD:	2.401	2.401	2.40				

==========

Sequence No.: 36 **Autosampler Location: 40**
Sample ID: N1937-09B **Date Collected: 10/27/2014 2:21:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-09B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.271	0.271	0.0041	0.0171	0.0043	14:22:37	Yes
2	0.266	0.266	0.0040	0.0155	0.0042	14:23:17	Yes
Mean:	0.269	0.269	0.0040				
SD:	0.003	0.003	0.0000				
%RSD:	1.146	1.146	1.15				

==========

Sequence No.: 37 **Autosampler Location: 41**
Sample ID: N1937-10B **Date Collected: 10/27/2014 2:23:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-10B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.315	0.315	0.0047	0.0199	0.0050	14:24:17	Yes
2	0.317	0.317	0.0047	0.0182	0.0050	14:24:56	Yes
Mean:	0.316	0.316	0.0047				
SD:	0.001	0.001	0.0000				
%RSD:	0.339	0.339	0.34				

==========

Sequence No.: 38 **Autosampler Location: 42**

Sample ID: N1937-11B **Date Collected: 10/27/2014 2:24:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-11B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.596	0.596	0.0089	0.0390	0.0092	14:25:56	Yes
2	0.590	0.590	0.0088	0.0379	0.0091	14:26:36	Yes
Mean:	0.593	0.593	0.0089				
SD:	0.004	0.004	0.0001				
%RSD:	0.709	0.709	0.71				

==========

Sequence No.: 39 **Autosampler Location: 43**
Sample ID: N1937-12B **Date Collected: 10/27/2014 2:26:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1937-12B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.334	0.334	0.0050	0.0207	0.0053	14:27:35	Yes
2	0.335	0.335	0.0050	0.0221	0.0053	14:28:15	Yes
Mean:	0.334	0.334	0.0050				
SD:	0.001	0.001	0.0000				
%RSD:	0.195	0.195	0.19				

==========

Sequence No.: 40 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 10/27/2014 2:28:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.858	4.858	0.0728	0.3269	0.0730	14:29:15	Yes
2	4.896	4.896	0.0733	0.3301	0.0736	14:29:55	Yes
Mean:	4.877	4.877	0.0730				
SD:	0.026	0.026	0.0004				
%RSD:	0.540	0.540	0.54				

QC value within limits for Hg 253.7 Recovery = 97.54%
All analyte(s) passed QC.

==========

Sequence No.: 41 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/27/2014 2:29:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.020	0.020	0.0003	0.0009	0.0006	14:30:57	Yes
2	0.026	0.026	0.0004	0.0002	0.0006	14:31:37	Yes
Mean:	0.023	0.023	0.0004				
SD:	0.004	0.004	0.0001				
%RSD:	18.28	18.28	18.28				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 42 **Autosampler Location: 44**
Sample ID: N1943-01B **Date Collected: 10/27/2014 2:31:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1943-01B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.129	0.129	0.0019	0.0092	0.0022	14:32:40	Yes
2	0.131	0.131	0.0020	0.0093	0.0022	14:33:20	Yes
Mean:	0.130	0.130	0.0019				
SD:	0.001	0.001	0.0000				
%RSD:	0.810	0.810	0.81				

Sequence No.: 43 **Autosampler Location: 45**
Sample ID: N1943-02B **Date Collected: 10/27/2014 2:33:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1943-02B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.147	0.147	0.0022	0.0101	0.0025	14:34:19	Yes
2	0.152	0.152	0.0023	0.0114	0.0025	14:34:59	Yes
Mean:	0.149	0.149	0.0022				
SD:	0.004	0.004	0.0001				
%RSD:	2.447	2.447	2.45				

Sequence No.: 44 **Autosampler Location: 46**
Sample ID: N1943-03B **Date Collected: 10/27/2014 2:35:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1943-03B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.081	0.081	0.0012	0.0069	0.0015	14:35:59	Yes
2	0.077	0.077	0.0012	0.0055	0.0014	14:36:39	Yes
Mean:	0.079	0.079	0.0012				
SD:	0.003	0.003	0.0000				
%RSD:	3.946	3.946	3.95				

Sequence No.: 45 **Autosampler Location: 47**
Sample ID: N1943-04B **Date Collected: 10/27/2014 2:36:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1943-04B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.083	0.083	0.0012	0.0049	0.0015	14:37:38	Yes
2	0.088	0.088	0.0013	0.0079	0.0016	14:38:18	Yes
Mean:	0.086	0.086	0.0013				
SD:	0.003	0.003	0.0000				
%RSD:	3.744	3.744	3.74				

Sequence No.: 46 **Autosampler Location: 48**
Sample ID: N1943-05B **Date Collected: 10/27/2014 2:38:20 PM**
Analyst: **Data Type: Original**

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1943-05B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.144	0.144	0.0022	0.0082	0.0024	14:39:21	Yes
2	0.150	0.150	0.0022	0.0108	0.0025	14:40:01	Yes
Mean:	0.147	0.147	0.0022				
SD:	0.004	0.004	0.0001				
%RSD:	2.969	2.969	2.97				

==========

Sequence No.: 47 **Autosampler Location: 49**
Sample ID: N1943-06B **Date Collected: 10/27/2014 2:40:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1943-06B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.108	0.108	0.0016	0.0081	0.0019	14:41:00	Yes
2	0.106	0.106	0.0016	0.0074	0.0018	14:41:40	Yes
Mean:	0.107	0.107	0.0016				
SD:	0.002	0.002	0.0000				
%RSD:	1.749	1.749	1.75				

==========

Sequence No.: 48 **Autosampler Location: 50**
Sample ID: N1943-06BDUP **Date Collected: 10/27/2014 2:41:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1943-06BDUP

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.148	0.148	0.0022	0.0098	0.0025	14:42:40	Yes
2	0.158	0.158	0.0024	0.0117	0.0026	14:43:20	Yes
Mean:	0.153	0.153	0.0023				
SD:	0.007	0.007	0.0001				
%RSD:	4.808	4.808	4.81				

==========

Sequence No.: 49 **Autosampler Location: 51**
Sample ID: N1943-06BMS **Date Collected: 10/27/2014 2:43:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: N1943-06BMS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.551	4.551	0.0682	0.3212	0.0684	14:44:19	Yes
2	4.542	4.542	0.0680	0.3209	0.0683	14:44:59	Yes
Mean:	4.546	4.546	0.0681				
SD:	0.006	0.006	0.0001				
%RSD:	0.129	0.129	0.13				

==========

Sequence No.: 50 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 10/27/2014 2:45:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.806	4.806	0.0720	0.3441	0.0722	14:46:01	Yes
2	4.796	4.796	0.0718	0.3394	0.0721	14:46:41	Yes
Mean:	4.801	4.801	0.0719				
SD:	0.006	0.006	0.0001				
%RSD:	0.135	0.135	0.14				

QC value within limits for Hg 253.7 Recovery = 96.02%
All analyte(s) passed QC.

==========

Sequence No.: 51 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/27/2014 2:46:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.019	0.019	0.0003	-0.0015	0.0005	14:47:43	Yes
2	0.032	0.032	0.0005	0.0037	0.0007	14:48:23	Yes
Mean:	0.025	0.025	0.0004				
SD:	0.009	0.009	0.0001				
%RSD:	36.21	36.21	36.21				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Prep Start Date: **10/23/2014 12:00**
Prep End Date: **10/23/2014 13:15**
Prep Batch ID: **79662**

Prep Code: **ICP_S_PR**
Technician: **Courtney J Anderson**

Prep Type: **3050B/SW3050B**

Prep Factor Units: **mL / g**

QC Matrix: N/A
QC Matrix Lot: N/A

1:1 HNO3 1114040
1:1 HNO3 (mL): 5.0

30% H2O2 144281
30% H2O2 (mL): 5.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HNO3 1114040
Conc HNO3 (mL): 2.5

Conc HCl 4114050
Conc HCl (mL): 5.0

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 10/23/2014 12:00
Digestion End Time 1: 10/23/2014 12:45

Digestion Start Time 2: 10/23/2014 13:00
Digestion End Time 2: 10/23/2014 13:15

Therm ID1: MT-102
BalanceID: TL6

Block Temp (C): 97.0
Corr Fac: -1.0
Corrected Temp: 96.0

Review TJ 10/24/14

Lab Sample ID	Client Samp ID	M	Initial (mL/g)	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	pH <2	HOT BLOCK
MB-79662			1	50	--	--	--	--			10/23/14	CJA	ICPLab		☐	☐	HB-B
LCS-79662			1	50	--	--	--	--			10/23/14	CJA	ICPLab		☐	☐	HB-B
455 uL II140915B, 455 uL IP131113C, 45.5 uL IP140214D, 45.5 uL IP140214E																	
N1937-01B	SED-LOCKC1-33-101	S	1.74	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
RCRA8																	
N1937-02B	SED-LOCKC1-35-101	S	1.55	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
RCRA8																	
N1937-03B	SED-LOCKC1-35-101	S	1.06	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
As,Cd,Cu,Pb																	
N1937-04B	SED-LOCKC1-36-101	S	1.59	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
RCRA8																	
N1937-05B	SED-LOCKC1-36-101	S	1.6	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
As,Cd,Cu,Pb																	
N1937-06B	SED-LOCKC1-22-101	S	1.11	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
As,Cd,Cu,Pb																	
N1937-07B	SED-LOCKC1-22-101	S	1.49	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
RCRA8																	
N1937-08B	SED-LOCKC1-24-101	S	1.74	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
RCRA8																	
N1937-09B	SED-LOCKC1-24-101	S	1.52	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
As,Cd,Cu,Pb																	
N1937-10B	SED-LOCKC1-FD04-1	S	1.38	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
As,Cd,Cu,Pb																	
N1937-11B	SED-LOCKC1-31-101	S	1.51	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
RCRA8																	
N1937-12B	SED-LOCKC1-31-101	S	1.2	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
As,Cd,Cu,Pb																	
N1937-01B	(211) TR-1 (13)	S	1.02	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
TAL																	
N1937-02B	(211) TR-2 (11)	S	1.09	50	--	--	--	--	10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
TAL																	

CJA 10/23/14

Logbook ID 100.0124-09/14

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

PREP BATCH REPORT

Prep Start Date: **10/23/2014 12:00**
Prep End Date: **10/23/2014 13:15**
Prep Batch ID: **79662**

Prep Code: **ICP_S_PR**
Technician: **Courtney J Anderson**

Prep Type: **3050B/SW3050B**

Prep Factor Units: **mL / g**

QC Matrix: N/A
QC Matrix Lot: N/A

1:1 HNO3 1114040
1:1 HNO3 (mL): 5.0

30% H2O2 144281
30% H2O2 (mL): 5.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HNO3 1114040
Conc HNO3 (mL): 2.5

Conc HCl 4114050
Conc HCl (mL): 5.0

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Block Temp (C): 97.0
Corr Fac: -1.0

Digestion Start Time 1: 10/23/2014 12:00
Digestion End Time 1: 10/23/2014 12:45

Digestion Start Time 2: 10/23/2014 13:00
Digestion End Time 2: 10/23/2014 13:15

Therm ID1: MT-102
BalanceID: TL6

Corrected Temp: 96.0

Lab Sample ID	Client Samp ID	M	Initial (mL/g)	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity			Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	pH <2	HOT BLOCK
N1943-03B	(211) TR-3 (11)	S	1.34	50	--	--	--	--			10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
TAL																			
N1943-04B	(211) TR-4 (11)	S	1.51	50	--	--	--	--			10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
TAL																			
N1943-05B	(211) TR-5 (11)	S	1.54	50	--	--	--	--			10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
TAL																			
N1943-06B	(211) TR-6 (14)	S	1.66	50	--	--	--	--			10/28/14	01	10/23/14	CJA	ICPLab		☐	☐	HB-B
TAL																			
N1943-06BDUP	(211) TR-6 (14)	S	1.27	50	--	--	--	--			10/28/14		10/23/14	CJA	ICPLab		☐	☐	HB-B
TAL																			
N1943-06BMS	(211) TR-6 (14)	S	1.43	50	--	--	--	--			10/28/14		10/23/14	CJA	ICPLab		☐	☐	HB-B

455 uL II140915B, 455 uL IP131113C, 45.5 uL IP140214D, 45.5 uL IP140214E, TAL

Courtney J Anderson — Analyst Reviewed — 10/23/2014 — Date

TJ 10/24/14 — Manager Reviewed — Date

Comments:

CJA 10/23/14

Prep Start Date: **10/24/2014 14:00**
Prep End Date: **10/24/2014 14:40**
Prep Batch ID: **79682**

Prep Code: **SW7471A_PR**
Technician: **Courtney J Anderson**

Prep Type: **7471B/SW7471B**

Prep Factor Units: **mL / g**

N1937

QC Matrix: N/A
QC Matrix Lot: N/A

Conc HNO3 1114040
Conc HNO3 (mL): 1.25

5% KMnO4 IR14101901
5% KMnO4 (mL): 15.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Review BD 10/25/14

Filter?: N/A
Filter Lot: N/A

Conc HCl 4114050
Conc HCl (mL): 3.75

Reagent 4 Lot: N/A
Reagent 4 (mL): N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Block Temp (C): 97.0
Corr Fac: -1.0

Digestion Start Time 1: 10/24/2014 14:00
Digestion End Time 1: 10/24/2014 14:05

Digestion Start Time 2: 10/24/2014 14:10
Digestion End Time 2: 10/24/2014 14:40

Therm ID1: MT-101
BalanceID: TL6

Corrected Temp: 96.0

Lab Sample ID	Client Samp ID	M	Initial (mL/g)	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity			Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	pH <2	HOT BLOCK
S0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-J
0 mL II141021A																			
S0.2			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-J
0.04 mL II141021A																			
S1.0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-J
0.2 mL II141021A																			
S2.0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-J
0.4 mL II141021A																			
S5.0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-J
1 mL II141021A																			
S10.0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-J
2 mL II141021A																			
ICV			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-J
1 mL II140926A																			
ICB			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-2
0 mL II141021A																			
CCV			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-2
1 mL II140926A																			
CCB			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-2
0 mL II141021A																			
MB-79682			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-2
LCS-79682			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-2
1 mL II140926B																			
N1937-01B	SED-LOCKC1-33-101	S	0.59	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2
RCRA8																			
N1937-02B	SED-LOCKC1-35-101	S	0.58	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2
RCRA8																			
N1937-03B	SED-LOCKC1-35-101	S	0.5	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2
N1937-04B	SED-LOCKC1-36-101	S	0.5	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2
RCRA8																			
N1937-05B	SED-LOCKC1-36-101	S	0.52	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2
N1937-06B	SED-LOCKC1-22-101	S	0.5	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2

Logbook ID: 100.0128 -09/14

CJA 10/24/14

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N1943

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

PREP BATCH REPORT

Prep Start Date: **10/24/2014 14:00**
Prep End Date: **10/24/2014 14:40**
Prep Batch ID: **79682**

Prep Code: **SW7471A_PR**
Technician: **Courtney J Anderson**

Prep Type: **7471B/SW7471B**

Prep Factor Units: **mL / g**

QC Matrix: N/A
QC Matrix Lot: N/A

Conc HNO3 **1114040**
Conc HNO3 (mL): **1.25**

5% KMnO4 **IR14101901**
5% KMnO4 (mL): **15.0**

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HCl **4114050**
Conc HCl (mL): **3.75**

Reagent 4 Lot: N/A
Reagent 4 (mL): N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Block Temp (C): **97.0**
Corr Fac: **-1.0**

Digestion Start Time 1: **10/24/2014 14:00**
Digestion End Time 1: **10/24/2014 14:05**

Digestion Start Time 2: **10/24/2014 14:10**
Digestion End Time 2: **10/24/2014 14:40**

Therm ID1: **MT-101**
BalanceID: **TL6**

Corrected Temp: **96.0**

Lab Sample ID	Client Samp ID	M	Initial (mL/g)	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity			Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	pH <2	HOT BLOCK
N1937-07B	SED-LOCKC1-22-101	S	0.51	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2
RCRA8																			
N1937-08B	SED-LOCKC1-24-101	S	0.55	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2
RCRA8																			
N1937-09B	SED-LOCKC1-24-101	S	0.5	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2
N1937-10B	SED-LOCKC1-FD04-1	S	0.53	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-2
N1937-11B	SED-LOCKC1-31-101	S	0.5	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-K
RCRA8																			
N1937-12B	SED-LOCKC1-31-101	S	0.59	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-K
N1943-01B	(211) TR-1 (13)	S	0.59	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-K
TAL																			
N1943-02B	(211) TR-2 (11)	S	0.58	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-K
TAL																			
N1943-03B	(211) TR-3 (11)	S	0.51	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-K
TAL																			
N1943-04B	(211) TR-4 (11)	S	0.51	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-K
TAL																			
N1943-05B	(211) TR-5 (11)	S	0.59	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-K
TAL																			
N1943-06B	(211) TR-6 (14)	S	0.51	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-K
TAL																			
N1943-06BDUP	(211) TR-6 (14)	S	0.59	100	--	--	--	--			10/28/14		10/24/14	CJA	HgLab		☐	☐	HB-K
TAL																			
N1943-06BMS	(211) TR-6 (14)	S	0.59	100	--	--	--	--			10/28/14		10/24/14	CJA	HgLab		☐	☐	HB-K
1 mL II140926B, TAL																			

Courtney J Anderson — Analyst Reviewed — 10/24/2014 — Date

BD — Manager Reviewed — 10/25/14 — Date

CJA 10/24/14

Logbook ID: 100.0128 -09/14

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Prep Start Date: **10/24/2014 14:00**
Prep End Date: **10/24/2014 14:40**
Prep Batch ID: **79681**

Prep Code: **SW7471A_PR**
Technician: **Courtney J Anderson**

Prep Type: **7471B/SW7471B**

Prep Factor Units: **mL / g**

QC Matrix: N/A
QC Matrix Lot: N/A

Conc HNO3: **1114040**
Conc HNO3 (mL): **1.25**

5% KMnO4: **IR14101901**
5% KMnO4 (mL): **15.0**

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Review BO 10/25/14

Filter?: N/A
Filter Lot: N/A

Conc HCl: **4114050**
Conc HCl (mL): **3.75**

Reagent 4 Lot: N/A
Reagent 4 (mL): N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Block Temp (C): 97.0
Corr Fac: -1.0

Digestion Start Time 1: 10/24/2014 14:00
Digestion End Time 1: 10/24/2014 14:05

Digestion Start Time 2: 10/24/2014 14:10
Digestion End Time 2: 10/24/2014 14:40

Therm ID1: MT-100
BalanceID: TL6

Corrected Temp: 96.0

Lab Sample ID	Client Samp ID	M	Initial (mL/g)	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity			Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	pH <2	HOT BLOCK
S0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
0 mL II141021A																			
S0.2			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
0.04 mL II141021A																			
S1.0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
0.2 mL II141021A																			
S2.0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
0.4 mL II141021A																			
S5.0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
1 mL II141021A																			
S10.0			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
2 mL II141021A																			
ICV			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
1 mL II140926A																			
ICB			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
0 mL II141021A																			
CCV			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
1 mL II140926A																			
CCB			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
0 mL II141021A																			
MB-79681			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
LCS-79681			0.6	100	--	--	--	--					10/24/14	CJA	HgLab		☐	☐	HB-A
1 mL II140926B																			
N1894-01B	SED-16	S	0.52	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-A
PP13 Metals																			
N1894-02B	SED-17	S	0.59	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-A
PP13 Metals																			
N1894-03B	SED-18	S	0.59	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-A
PP13 Metals																			
N1894-04B	SED-21	S	0.5	100	--	--	--	--			10/28/14	01	10/24/14	CJA	HgLab		☐	☐	HB-J
PP13 Metals																			

Logbook ID: 100.0128 -09/14

CJA 10/24/14

Percent Moisture and Percent Solids Report

Lab Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
N1943-01A	(211) TR-1 (13)	10/17/2014	6.114	93.886	Yes
N1943-02A	(211) TR-2 (11)	10/17/2014	8.172	91.828	Yes
N1943-03A	(211) TR-3 (11)	10/17/2014	6.555	93.445	Yes
N1943-04A	(211) TR-4 (11)	10/17/2014	6.769	93.231	Yes
N1943-05A	(211) TR-5 (11)	10/17/2014	8.877	91.123	Yes
N1943-06A	(211) TR-6 (14)	10/17/2014	6.995	93.005	Yes

Internal Chain of Custody

Client: DAY

Work Order: N1943 **Profile Name:** DAY_FRANKLIN

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
01A	001	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
01A	001	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
01A	002	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
01A	002	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
01A	002	SW8270_S	Out	Devin M Pierel	10/27/2014 8:11:06 AM
01A	002	SW8270_S	In	Devin M Pierel	10/27/2014 8:48:53 AM
01B	001	SW6010_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
01B	001	SW7471	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
01C	001	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
01C	002	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
01D	001	SW8260_MED_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
02A	001	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
02A	001	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
02A	002	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
02A	002	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
02A	002	SW8270_S	Out	Devin M Pierel	10/27/2014 8:11:06 AM
02A	002	SW8270_S	In	Devin M Pierel	10/27/2014 8:48:53 AM
02B	001	SW6010_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
02B	001	SW7471	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
02C	001	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
02C	002	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
02D	001	SW8260_MED_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
03A	001	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
03A	001	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
03A	001	SW8270_S	Out	Devin M Pierel	10/27/2014 8:11:06 AM
03A	001	SW8270_S	In	Devin M Pierel	10/27/2014 8:48:53 AM
03A	002	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
03A	002	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
03B	001	SW6010_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
03B	001	SW7471	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
03C	001	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
03C	002	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM

Internal Chain of Custody

Client: DAY

Work Order: N1943 **Profile Name:** DAY_FRANKLIN

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
03D	001	SW8260_MED_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
04A	001	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
04A	001	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
04A	002	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
04A	002	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
04A	002	SW8270_S	Out	Devin M Pierel	10/27/2014 8:11:06 AM
04A	002	SW8270_S	In	Devin M Pierel	10/27/2014 8:48:53 AM
04B	001	SW6010_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
04B	001	SW7471	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
04C	001	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
04C	002	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
04D	001	SW8260_MED_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
05A	001	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
05A	001	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
05A	001	SW8270_S	Out	Devin M Pierel	10/27/2014 8:11:06 AM
05A	001	SW8270_S	In	Devin M Pierel	10/27/2014 8:48:53 AM
05A	002	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
05A	002	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
05B	001	SW6010_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
05B	001	SW7471	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
05C	001	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
05C	002	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
05D	001	SW8260_MED_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
06A	001	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
06A	001	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
06A	002	PMoist	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
06A	002	SW8270_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
06A	002	SW8270_S	Out	Devin M Pierel	10/27/2014 8:11:06 AM
06A	002	SW8270_S	In	Devin M Pierel	10/27/2014 8:48:53 AM
06B	001	SW6010_S	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM
06B	001	SW7471	In	LOGIN: Kpierce	10/17/2014 7:46:00 AM

Internal Chain of Custody

Client: DAY

Work Order: N1943 **Profile Name:** DAY_FRANKLIN

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
06C	001	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
06C	002	SW8260_LOW_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM
06D	001	SW8260_MED_S	In	LOGIN: Kpierce	10/17/2014 7:30:00 AM

Last Page of Data Report

Appendix H

Analytical Laboratory Data Report
Imported Backfill Material

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-61422-1
Client Project/Site: Olean-Gateway Project BRG

For:
KT Redevelopment LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218

Attn: Michael Lesakowski

Jennifer Huckaba

Authorized for release by:
9/22/2014 6:43:33 PM

Jennifer Huckaba, Project Manager II
(615)301-5042
jennifer.huckaba@testamericainc.com

Table of Contents

Sample Summary

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-61422-1	BRG-3	Soil	09/12/14 10:50	09/13/14 09:05
490-61422-2	BRG-4	Soil	09/12/14 10:53	09/13/14 09:05
490-61422-3	BRG-5	Soil	09/12/14 10:55	09/13/14 09:05
490-61422-4	BRG-6	Soil	09/12/14 11:00	09/13/14 09:05
490-61422-5	BRG-7	Soil	09/12/14 11:04	09/13/14 09:05
490-61422-6	BRG-8	Soil	09/12/14 11:06	09/13/14 09:05
490-61422-7	BRG-9	Soil	09/12/14 11:09	09/13/14 09:05
490-61422-8	BRG-10	Soil	09/12/14 11:10	09/13/14 09:05
490-61422-9	BRG-11	Soil	09/12/14 11:15	09/13/14 09:05
490-61422-10	BRG-12	Soil	09/12/14 11:17	09/13/14 09:05
490-61422-11	BRG-13	Soil	09/12/14 11:21	09/13/14 09:05
490-61422-12	BRG-14	Soil	09/12/14 11:23	09/13/14 09:05

Job ID: 490-61422-1

Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE

Client: KT Redevelopment LLC

Project: Olean-Gateway Project BRG

Report Number: 490-61422-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 9/13/2014 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

Except:

Reported analyte concentrations in the following sample(s) are below 200ug/kg and may be biased low due to the sample(s) not being collected according to 5035-L/5035A-L low-level specifications: BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12).

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 09/15/2014 and analyzed on 09/15/2014 and 09/16/2014.

Styrene failed the recovery criteria low for the MS and MSD of sample BRG-14 (490-61422-12) in batch 490-190813. Several analytes exceeded the RPD limit. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Job ID: 490-61422-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 190563 recovered outside control limits for the following analytes: chloromethane and bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

cis-1,3-Dichloropropene and Styrene exceeded the RPD limit for the MSD of sample BRG-7 (490-61422-5) in batch 490-190563.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12) were analyzed for Semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 09/15/2014 and analyzed on 09/15/2014 and 09/16/2014.

Several analytes failed the recovery criteria low for the MS and MSD of sample 460-82584-3 in batch 490-190878 / 190624. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

ORGANOCHLORINE PESTICIDES

Samples BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12) were analyzed for Organochlorine Pesticides in accordance with SW-846 Method 8081B. The samples were prepared on 09/16/2014 and analyzed on 09/17/2014.

DCB Decachlorobiphenyl (Surr) and Tetrachloro-m-xylene failed the surrogate recovery criteria low for LCS 490-190802/9-A. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

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

POLYCHLORINATED BIPHENYLS (PCBS)

Samples BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 09/16/2014 and analyzed on 09/18/2014.

DCB Decachlorobiphenyl (Surr) failed the surrogate recovery criteria high for BRG-6 (490-61422-4).

The continuing calibration verification CCV 490-191127/43 and 490-191127/55 recovered above the upper control limit. The samples associated with this CCV were non-detect; therefore, the data has been reported. The following samples are impacted: BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6).

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

CHLORINATED HERBICIDES

Samples BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 09/15/2014 and analyzed on 09/16/2014.

2,4-D failed the recovery criteria low for the MSD of sample 490-61407-1 in batch 490-191011 / 190656. 2,4,5-T and 2,4,5-TP (Silvex) exceeded the RPD limit. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control

Job ID: 490-61422-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

sample (LCS) was within acceptance limits.

The continuing calibration verification (CCV) associated with batch 191011 recovered above the upper control limit for several 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: BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11), BRG-14 (490-61422-12), BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BS01-09112014 (490-61407-1).

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

METALS (ICP)

Samples BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 09/17/2014 and analyzed on 09/17/2014 and 09/18/2014.

Iron and Manganese failed the recovery criteria low for the MS of sample 490-61039-8 in batch 490-191390. Aluminum, Calcium and Magnesium failed the recovery criteria high.

For the MSD of sample 490-61039-8 in batch 490-191390, Calcium and Manganese failed the recovery criteria low. Aluminum and Iron failed the recovery criteria high. Also, Calcium exceeded the RPD limit.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

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

MERCURY

Samples BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 09/17/2014 and analyzed on 09/18/2014.

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

TOTAL CYANIDE

Samples BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 09/18/2014.

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

PERCENT SOLIDS

Samples BRG-3 (490-61422-1), BRG-4 (490-61422-2), BRG-5 (490-61422-3), BRG-6 (490-61422-4), BRG-7 (490-61422-5), BRG-8 (490-61422-6), BRG-9 (490-61422-7), BRG-10 (490-61422-8), BRG-11 (490-61422-9), BRG-12 (490-61422-10), BRG-13 (490-61422-11) and BRG-14 (490-61422-12) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 09/15/2014.

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

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

GC/MS Semi VOA

Qualifier	Qualifier Description
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.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery exceeds the control limits
X	Surrogate is outside control limits

Metals

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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-3
Date Collected: 09/12/14 10:50
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-1
Matrix: Soil
Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,1,2,2-Tetrachloroethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,1,2-Trichloroethane	ND		0.00411		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,1-Dichloroethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,1-Dichloroethene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,2,4-Trichlorobenzene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,2-Dibromo-3-Chloropropane	ND		0.00411		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,2-Dibromoethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,2-Dichlorobenzene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,2-Dichloroethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,2-Dichloropropane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,3-Dichlorobenzene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,4-Dichlorobenzene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
1,4-Dioxane	ND		0.164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
2-Butanone (MEK)	ND		0.0411		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
2-Hexanone	ND		0.0411		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.0411		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Acetone	ND		0.0411		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Benzene	**0.00165**		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Bromodichloromethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Bromoform	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Bromomethane	ND	*	0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Carbon disulfide	ND		0.00411		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Carbon tetrachloride	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Chlorobenzene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Chloroethane	ND		0.00411		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Chloroform	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Chloromethane	ND	*	0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
cis-1,2-Dichloroethene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
cis-1,3-Dichloropropene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Cyclohexane	ND		0.00821		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Dibromochloromethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Dichlorodifluoromethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Ethylbenzene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Isopropylbenzene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Methyl acetate	ND		0.00821		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Methyl tert-butyl ether	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Methylcyclohexane	ND		0.00821		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Methylene Chloride	ND		0.00821		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Styrene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Tetrachloroethene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Toluene	**0.00390**		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
trans-1,2-Dichloroethene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
trans-1,3-Dichloropropene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Trichloroethene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Trichlorofluoromethane	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
Vinyl chloride	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1
m-Xylene & p-Xylene	**0.00269**		0.00246		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-3
Date Collected: 09/12/14 10:50
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-1
Matrix: Soil
Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00164		mg/Kg	☼	09/15/14 12:53	09/15/14 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*09/15/14 12:53*	*09/15/14 15:39*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/15/14 12:53*	*09/15/14 15:39*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*	*09/15/14 12:53*	*09/15/14 15:39*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*09/15/14 12:53*	*09/15/14 15:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
2,2'-oxybis(1-chloropropane)	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
2,4-Dinitrotoluene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
2,6-Dinitrotoluene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
2-Chloronaphthalene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
2-Methylnaphthalene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
2-Nitroaniline	ND		0.860		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
3,3'-Dichlorobenzidine	ND		0.689		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
3-Nitroaniline	ND		0.860		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
4-Bromophenyl phenyl ether	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
4-Chloroaniline	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
4-Chlorophenyl phenyl ether	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
4-Nitroaniline	ND		0.860		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Acenaphthene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Acenaphthylene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Acetophenone	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Anthracene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Atrazine	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Benzaldehyde	ND		1.72		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Benzo[a]pyrene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Benzo[a]anthracene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Benzo[b]fluoranthene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Benzo[g,h,i]perylene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Benzo[k]fluoranthene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Bis(2-chloroethoxy)methane	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Bis(2-chloroethyl)ether	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Bis(2-ethylhexyl) phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Butyl benzyl phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Caprolactam	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Carbazole	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Chrysene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Dibenz(a,h)anthracene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Dibenzofuran	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Diethyl phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Dimethyl phthalate	ND		1.72		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Di-n-butyl phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Di-n-octyl phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Fluoranthene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Fluorene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Hexachlorobenzene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1

Client Sample ID: BRG-3
Date Collected: 09/12/14 10:50
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-1
Matrix: Soil
Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Hexachlorocyclopentadiene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Hexachloroethane	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Isophorone	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Naphthalene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Nitrobenzene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
N-Nitrosodi-n-propylamine	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Phenanthrene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1
Pyrene	ND		0.0692		mg/Kg	☼	09/15/14 10:54	09/15/14 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*10 - 120*	*09/15/14 10:54*	*09/15/14 22:08*	*1*
2-Fluorobiphenyl (Surr)	*69*		*29 - 120*	*09/15/14 10:54*	*09/15/14 22:08*	*1*
2-Fluorophenol (Surr)	*66*		*10 - 120*	*09/15/14 10:54*	*09/15/14 22:08*	*1*
Nitrobenzene-d5 (Surr)	*68*		*27 - 120*	*09/15/14 10:54*	*09/15/14 22:08*	*1*
Phenol-d5 (Surr)	*69*		*10 - 120*	*09/15/14 10:54*	*09/15/14 22:08*	*1*
Terphenyl-d14 (Surr)	*86*		*13 - 120*	*09/15/14 10:54*	*09/15/14 22:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
alpha-BHC	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
beta-BHC	ND		0.00330		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
delta-BHC	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
gamma-BHC (Lindane)	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
alpha-Chlordane	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
gamma-Chlordane	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Chlordane (technical)	ND		0.0667		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
4,4'-DDD	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
4,4'-DDE	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
4,4'-DDT	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Dieldrin	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Endosulfan I	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Endosulfan II	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Endosulfan sulfate	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Endrin	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Endrin aldehyde	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Endrin ketone	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Heptachlor	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Heptachlor epoxide	ND		0.00170		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Methoxychlor	ND		0.00330		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1
Toxaphene	ND		0.0667		mg/Kg	☼	09/16/14 09:15	09/17/14 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*21 - 145*	*09/16/14 09:15*	*09/17/14 20:43*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 150*	*09/16/14 09:15*	*09/17/14 20:43*	*1*

Client Sample ID: BRG-3
Date Collected: 09/12/14 10:50
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-1
Matrix: Soil
Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/Kg	☼	09/16/14 09:15	09/18/14 15:29	1
PCB-1221	ND		0.0333		mg/Kg	☼	09/16/14 09:15	09/18/14 15:29	1
PCB-1232	ND		0.0333		mg/Kg	☼	09/16/14 09:15	09/18/14 15:29	1
PCB-1242	ND		0.0333		mg/Kg	☼	09/16/14 09:15	09/18/14 15:29	1
PCB-1248	**0.0365**		0.0333		mg/Kg	☼	09/16/14 09:15	09/18/14 15:29	1
PCB-1254	ND		0.0333		mg/Kg	☼	09/16/14 09:15	09/18/14 15:29	1
PCB-1260	ND		0.0333		mg/Kg	☼	09/16/14 09:15	09/18/14 15:29	1
PCB-1262	ND		0.0333		mg/Kg	☼	09/16/14 09:15	09/18/14 15:29	1
PCB-1268	ND		0.0333		mg/Kg	☼	09/16/14 09:15	09/18/14 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*112*		*20 - 150*	*09/16/14 09:15*	*09/18/14 15:29*	*1*
Tetrachloro-m-xylene	*100*		*19 - 147*	*09/16/14 09:15*	*09/18/14 15:29*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0717		mg/Kg	☼	09/15/14 11:49	09/16/14 20:15	1
2,4,5-T	ND		0.0338		mg/Kg	☼	09/15/14 11:49	09/16/14 20:15	1
2,4,5-TP (Silvex)	ND		0.0338		mg/Kg	☼	09/15/14 11:49	09/16/14 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*21*		*10 - 150*	*09/15/14 11:49*	*09/16/14 20:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4340**		20.7		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Antimony	ND		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Arsenic	**5.01**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Barium	**50.0**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Beryllium	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Cadmium	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Calcium	**11900**		207		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Chromium	**5.18**		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Cobalt	**4.99**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Copper	**11.0**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Iron	**12200**		41.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Lead	**2.24**		1.04		mg/Kg	☼	09/17/14 11:41	09/18/14 12:24	1
Magnesium	**2640**		207		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Manganese	**383**		3.11		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Nickel	**9.55**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Potassium	**401**		207		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Selenium	ND		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Silver	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Sodium	ND		207		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Thallium	ND		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Vanadium	ND		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	1
Zinc	**30.9**		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:26	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	ND		0.103		mg/Kg	☼	09/17/14 15:02	09/18/14 11:08	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-3
Date Collected: 09/12/14 10:50
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-1
Matrix: Soil
Percent Solids: 96.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.08		mg/Kg	☼	09/18/14 13:57	09/18/14 16:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10		%			09/15/14 10:28	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-4
Date Collected: 09/12/14 10:53
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-2
Matrix: Soil
Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,1,2,2-Tetrachloroethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,1,2-Trichloroethane	ND		0.00562		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,1-Dichloroethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,1-Dichloroethene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,2,4-Trichlorobenzene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,2-Dibromo-3-Chloropropane	ND		0.00562		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,2-Dibromoethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,2-Dichlorobenzene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,2-Dichloroethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,2-Dichloropropane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,3-Dichlorobenzene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,4-Dichlorobenzene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
1,4-Dioxane	ND		0.225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
2-Butanone (MEK)	ND		0.0562		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
2-Hexanone	ND		0.0562		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
4-Methyl-2-pentanone (MIBK)	ND		0.0562		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Acetone	ND		0.0562		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Benzene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Bromodichloromethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Bromoform	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Bromomethane	ND	*	0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Carbon disulfide	ND		0.00562		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Carbon tetrachloride	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Chlorobenzene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Chloroethane	ND		0.00562		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Chloroform	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Chloromethane	ND	*	0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
cis-1,2-Dichloroethene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
cis-1,3-Dichloropropene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Cyclohexane	ND		0.0112		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Dibromochloromethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Dichlorodifluoromethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Ethylbenzene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Isopropylbenzene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Methyl acetate	ND		0.0112		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Methyl tert-butyl ether	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Methylcyclohexane	ND		0.0112		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Methylene Chloride	ND		0.0112		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Styrene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Tetrachloroethene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Toluene	**0.00401**		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
trans-1,2-Dichloroethene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
trans-1,3-Dichloropropene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Trichloroethene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Trichlorofluoromethane	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
Vinyl chloride	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1
m-Xylene & p-Xylene	ND		0.00337		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-4
Date Collected: 09/12/14 10:53
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-2
Matrix: Soil
Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00225		mg/Kg	☼	09/15/14 12:53	09/15/14 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*	*09/15/14 12:53*	*09/15/14 16:08*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/15/14 12:53*	*09/15/14 16:08*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*	*09/15/14 12:53*	*09/15/14 16:08*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*09/15/14 12:53*	*09/15/14 16:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
2,2'-oxybis(1-chloropropane)	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
2,4-Dinitrotoluene	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
2,6-Dinitrotoluene	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
2-Chloronaphthalene	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
2-Methylnaphthalene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
2-Nitroaniline	ND		0.846		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
3,3'-Dichlorobenzidine	ND		0.677		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
3-Nitroaniline	ND		0.846		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
4-Bromophenyl phenyl ether	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
4-Chloroaniline	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
4-Chlorophenyl phenyl ether	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
4-Nitroaniline	ND		0.846		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Acenaphthene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Acenaphthylene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Acetophenone	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Anthracene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Atrazine	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Benzaldehyde	ND		1.70		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Benzo[a]pyrene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Benzo[a]anthracene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Benzo[b]fluoranthene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Benzo[g,h,i]perylene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Benzo[k]fluoranthene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Bis(2-chloroethoxy)methane	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Bis(2-chloroethyl)ether	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Bis(2-ethylhexyl) phthalate	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Butyl benzyl phthalate	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Caprolactam	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Carbazole	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Chrysene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Dibenz(a,h)anthracene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Dibenzofuran	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Diethyl phthalate	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Dimethyl phthalate	ND		1.70		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Di-n-butyl phthalate	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Di-n-octyl phthalate	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Fluoranthene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Fluorene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Hexachlorobenzene	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1

Client Sample ID: BRG-4
Date Collected: 09/12/14 10:53
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-2
Matrix: Soil
Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Hexachlorocyclopentadiene	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Hexachloroethane	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Isophorone	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Naphthalene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Nitrobenzene	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
N-Nitrosodi-n-propylamine	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.338		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Phenanthrene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1
Pyrene	ND		0.0680		mg/Kg	☼	09/15/14 10:54	09/15/14 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 120*	*09/15/14 10:54*	*09/15/14 22:30*	*1*
2-Fluorobiphenyl (Surr)	*55*		*29 - 120*	*09/15/14 10:54*	*09/15/14 22:30*	*1*
2-Fluorophenol (Surr)	*56*		*10 - 120*	*09/15/14 10:54*	*09/15/14 22:30*	*1*
Nitrobenzene-d5 (Surr)	*55*		*27 - 120*	*09/15/14 10:54*	*09/15/14 22:30*	*1*
Phenol-d5 (Surr)	*57*		*10 - 120*	*09/15/14 10:54*	*09/15/14 22:30*	*1*
Terphenyl-d14 (Surr)	*72*		*13 - 120*	*09/15/14 10:54*	*09/15/14 22:30*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
alpha-BHC	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
beta-BHC	ND		0.00321		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
delta-BHC	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
gamma-BHC (Lindane)	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
alpha-Chlordane	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
gamma-Chlordane	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Chlordane (technical)	ND		0.0650		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
4,4'-DDD	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
4,4'-DDE	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
4,4'-DDT	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Dieldrin	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Endosulfan I	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Endosulfan II	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Endosulfan sulfate	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Endrin	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Endrin aldehyde	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Endrin ketone	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Heptachlor	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Heptachlor epoxide	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Methoxychlor	ND		0.00321		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1
Toxaphene	ND		0.0650		mg/Kg	☼	09/16/14 09:15	09/17/14 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*21 - 145*	*09/16/14 09:15*	*09/17/14 20:55*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*25 - 150*	*09/16/14 09:15*	*09/17/14 20:55*	*1*

Client Sample ID: BRG-4
Date Collected: 09/12/14 10:53
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-2
Matrix: Soil
Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0324		mg/Kg	☼	09/16/14 09:15	09/18/14 04:53	1
PCB-1221	ND		0.0324		mg/Kg	☼	09/16/14 09:15	09/18/14 04:53	1
PCB-1232	ND		0.0324		mg/Kg	☼	09/16/14 09:15	09/18/14 04:53	1
PCB-1242	ND		0.0324		mg/Kg	☼	09/16/14 09:15	09/18/14 04:53	1
PCB-1248	ND		0.0324		mg/Kg	☼	09/16/14 09:15	09/18/14 04:53	1
PCB-1254	ND		0.0324		mg/Kg	☼	09/16/14 09:15	09/18/14 04:53	1
PCB-1260	ND		0.0324		mg/Kg	☼	09/16/14 09:15	09/18/14 04:53	1
PCB-1262	ND		0.0324		mg/Kg	☼	09/16/14 09:15	09/18/14 04:53	1
PCB-1268	ND		0.0324		mg/Kg	☼	09/16/14 09:15	09/18/14 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*143*		*20 - 150*	*09/16/14 09:15*	*09/18/14 04:53*	*1*
Tetrachloro-m-xylene	*87*		*19 - 147*	*09/16/14 09:15*	*09/18/14 04:53*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0708		mg/Kg	☼	09/15/14 11:49	09/16/14 20:29	1
2,4,5-T	ND		0.0334		mg/Kg	☼	09/15/14 11:49	09/16/14 20:29	1
2,4,5-TP (Silvex)	ND		0.0334		mg/Kg	☼	09/15/14 11:49	09/16/14 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*36*		*10 - 150*	*09/15/14 11:49*	*09/16/14 20:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5910**		20.6		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Antimony	ND		10.3		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Arsenic	**7.81**		2.06		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Barium	**69.0**		2.06		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Beryllium	ND		1.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Cadmium	ND		1.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Calcium	**20500**		206		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Chromium	**7.38**		1.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Cobalt	**7.26**		2.06		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Copper	**14.7**		2.06		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Iron	**16400**		41.1		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Lead	**8.62**		1.03		mg/Kg	☼	09/17/14 11:41	09/18/14 12:27	1
Magnesium	**5290**		206		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Manganese	**554**		3.08		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Nickel	**13.1**		2.06		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Potassium	**653**		206		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Selenium	ND		2.06		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Silver	ND		1.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Sodium	ND		206		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Thallium	ND		2.06		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Vanadium	ND		10.3		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	1
Zinc	**40.7**		10.3		mg/Kg	☼	09/17/14 11:41	09/17/14 21:30	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	ND		0.0993		mg/Kg	☼	09/17/14 15:02	09/18/14 11:10	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-4
Date Collected: 09/12/14 10:53
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-2
Matrix: Soil
Percent Solids: 96.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.07		mg/Kg	☼	09/18/14 13:57	09/18/14 16:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10		%			09/15/14 10:28	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-5
Date Collected: 09/12/14 10:55
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-3
Matrix: Soil
Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,1,2,2-Tetrachloroethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,1,2-Trichloroethane	ND		0.00494		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,1-Dichloroethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,1-Dichloroethene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,2,4-Trichlorobenzene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,2-Dibromo-3-Chloropropane	ND		0.00494		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,2-Dibromoethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,2-Dichlorobenzene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,2-Dichloroethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,2-Dichloropropane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,3-Dichlorobenzene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,4-Dichlorobenzene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
1,4-Dioxane	ND		0.198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
2-Butanone (MEK)	ND		0.0494		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
2-Hexanone	ND		0.0494		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
4-Methyl-2-pentanone (MIBK)	ND		0.0494		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Acetone	ND		0.0494		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Benzene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Bromodichloromethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Bromoform	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Bromomethane	ND	*	0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Carbon disulfide	ND		0.00494		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Carbon tetrachloride	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Chlorobenzene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Chloroethane	ND		0.00494		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Chloroform	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Chloromethane	ND	*	0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
cis-1,2-Dichloroethene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
cis-1,3-Dichloropropene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Cyclohexane	ND		0.00989		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Dibromochloromethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Dichlorodifluoromethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Ethylbenzene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Isopropylbenzene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Methyl acetate	ND		0.00989		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Methyl tert-butyl ether	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Methylcyclohexane	ND		0.00989		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Methylene Chloride	ND		0.00989		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Styrene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Tetrachloroethene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Toluene	**0.00394**		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
trans-1,2-Dichloroethene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
trans-1,3-Dichloropropene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Trichloroethene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Trichlorofluoromethane	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
Vinyl chloride	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1
m-Xylene & p-Xylene	ND		0.00297		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-5
Date Collected: 09/12/14 10:55
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-3
Matrix: Soil
Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00198		mg/Kg	☼	09/15/14 12:53	09/15/14 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*09/15/14 12:53*	*09/15/14 16:37*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*09/15/14 12:53*	*09/15/14 16:37*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*	*09/15/14 12:53*	*09/15/14 16:37*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*09/15/14 12:53*	*09/15/14 16:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
2,2'-oxybis(1-chloropropane)	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
2,4-Dinitrotoluene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
2,6-Dinitrotoluene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
2-Chloronaphthalene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
2-Methylnaphthalene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
2-Nitroaniline	ND		0.861		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
3,3'-Dichlorobenzidine	ND		0.690		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
3-Nitroaniline	ND		0.861		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
4-Bromophenyl phenyl ether	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
4-Chloroaniline	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
4-Chlorophenyl phenyl ether	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
4-Nitroaniline	ND		0.861		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Acenaphthene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Acenaphthylene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Acetophenone	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Anthracene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Atrazine	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Benzaldehyde	ND		1.73		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Benzo[a]pyrene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Benzo[a]anthracene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Benzo[b]fluoranthene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Benzo[g,h,i]perylene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Benzo[k]fluoranthene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Bis(2-chloroethoxy)methane	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Bis(2-chloroethyl)ether	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Bis(2-ethylhexyl) phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Butyl benzyl phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Caprolactam	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Carbazole	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Chrysene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Dibenz(a,h)anthracene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Dibenzofuran	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Diethyl phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Dimethyl phthalate	ND		1.73		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Di-n-butyl phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Di-n-octyl phthalate	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Fluoranthene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Fluorene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Hexachlorobenzene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1

Client Sample ID: BRG-5
Date Collected: 09/12/14 10:55
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-3
Matrix: Soil
Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Hexachlorocyclopentadiene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Hexachloroethane	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Indeno[1,2,3-cd]pyrene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Isophorone	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Naphthalene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Nitrobenzene	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
N-Nitrosodi-n-propylamine	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.344		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Phenanthrene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1
Pyrene	ND		0.0693		mg/Kg	☼	09/15/14 10:54	09/15/14 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 120*	*09/15/14 10:54*	*09/15/14 22:53*	*1*
2-Fluorobiphenyl (Surr)	*58*		*29 - 120*	*09/15/14 10:54*	*09/15/14 22:53*	*1*
2-Fluorophenol (Surr)	*60*		*10 - 120*	*09/15/14 10:54*	*09/15/14 22:53*	*1*
Nitrobenzene-d5 (Surr)	*58*		*27 - 120*	*09/15/14 10:54*	*09/15/14 22:53*	*1*
Phenol-d5 (Surr)	*57*		*10 - 120*	*09/15/14 10:54*	*09/15/14 22:53*	*1*
Terphenyl-d14 (Surr)	*72*		*13 - 120*	*09/15/14 10:54*	*09/15/14 22:53*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
alpha-BHC	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
beta-BHC	ND		0.00325		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
delta-BHC	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
gamma-BHC (Lindane)	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
alpha-Chlordane	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
gamma-Chlordane	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Chlordane (technical)	ND		0.0658		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
4,4'-DDD	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
4,4'-DDE	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
4,4'-DDT	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Dieldrin	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Endosulfan I	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Endosulfan II	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Endosulfan sulfate	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Endrin	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Endrin aldehyde	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Endrin ketone	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Heptachlor	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Heptachlor epoxide	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Methoxychlor	ND		0.00325		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1
Toxaphene	ND		0.0658		mg/Kg	☼	09/16/14 09:15	09/17/14 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*21 - 145*	*09/16/14 09:15*	*09/17/14 21:07*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 150*	*09/16/14 09:15*	*09/17/14 21:07*	*1*

Client Sample ID: BRG-5
Date Collected: 09/12/14 10:55
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-3
Matrix: Soil
Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 05:16	1
PCB-1221	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 05:16	1
PCB-1232	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 05:16	1
PCB-1242	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 05:16	1
PCB-1248	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 05:16	1
PCB-1254	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 05:16	1
PCB-1260	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 05:16	1
PCB-1262	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 05:16	1
PCB-1268	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 05:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*109*		*20 - 150*	*09/16/14 09:15*	*09/18/14 05:16*	*1*
Tetrachloro-m-xylene	*103*		*19 - 147*	*09/16/14 09:15*	*09/18/14 05:16*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0731		mg/Kg	☼	09/15/14 11:49	09/16/14 20:44	1
2,4,5-T	ND		0.0344		mg/Kg	☼	09/15/14 11:49	09/16/14 20:44	1
2,4,5-TP (Silvex)	ND		0.0344		mg/Kg	☼	09/15/14 11:49	09/16/14 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*61*	*p*	*10 - 150*	*09/15/14 11:49*	*09/16/14 20:44*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4810**		20.5		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Antimony	ND		10.3		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Arsenic	**8.63**		2.05		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Barium	**53.9**		2.05		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Beryllium	ND		1.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Cadmium	ND		1.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Calcium	**15900**		205		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Chromium	**6.15**		1.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Cobalt	**5.39**		2.05		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Copper	**15.6**		2.05		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Iron	**13800**		41.0		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Lead	**8.76**		1.03		mg/Kg	☼	09/17/14 11:41	09/18/14 12:31	1
Magnesium	**2920**		205		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Manganese	**477**		3.08		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Nickel	**10.5**		2.05		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Potassium	**411**		205		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Selenium	ND		2.05		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Silver	ND		1.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Sodium	ND		205		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Thallium	ND		2.05		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Vanadium	ND		10.3		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	1
Zinc	**30.9**		10.3		mg/Kg	☼	09/17/14 11:41	09/17/14 21:33	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	ND		0.105		mg/Kg	☼	09/17/14 15:02	09/18/14 11:12	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-5
Date Collected: 09/12/14 10:55
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-3
Matrix: Soil
Percent Solids: 94.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.11		mg/Kg	☼	09/18/14 13:57	09/18/14 16:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			09/15/14 10:28	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-6
Date Collected: 09/12/14 11:00
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-4
Matrix: Soil
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,1,2,2-Tetrachloroethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,1,2-Trichloroethane	ND		0.00644		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,1-Dichloroethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,1-Dichloroethene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,2,4-Trichlorobenzene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,2-Dibromo-3-Chloropropane	ND		0.00644		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,2-Dibromoethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,2-Dichlorobenzene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,2-Dichloroethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,2-Dichloropropane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,3-Dichlorobenzene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,4-Dichlorobenzene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
1,4-Dioxane	ND		0.257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
2-Butanone (MEK)	ND		0.0644		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
2-Hexanone	ND		0.0644		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
4-Methyl-2-pentanone (MIBK)	ND		0.0644		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Acetone	ND		0.0644		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Benzene	**0.00273**		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Bromodichloromethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Bromoform	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Bromomethane	ND	*	0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Carbon disulfide	ND		0.00644		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Carbon tetrachloride	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Chlorobenzene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Chloroethane	ND		0.00644		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Chloroform	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Chloromethane	ND	*	0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
cis-1,2-Dichloroethene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
cis-1,3-Dichloropropene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Cyclohexane	ND		0.0129		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Dibromochloromethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Dichlorodifluoromethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Ethylbenzene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Isopropylbenzene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Methyl acetate	ND		0.0129		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Methyl tert-butyl ether	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Methylcyclohexane	ND		0.0129		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Methylene Chloride	ND		0.0129		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Styrene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Tetrachloroethene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Toluene	**0.00642**		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
trans-1,2-Dichloroethene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
trans-1,3-Dichloropropene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Trichloroethene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Trichlorofluoromethane	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
Vinyl chloride	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1
m-Xylene & p-Xylene	**0.00484**		0.00386		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-6
Date Collected: 09/12/14 11:00
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-4
Matrix: Soil
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00257		mg/Kg	☼	09/15/14 12:53	09/15/14 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*09/15/14 12:53*	*09/15/14 17:07*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/15/14 12:53*	*09/15/14 17:07*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*	*09/15/14 12:53*	*09/15/14 17:07*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*09/15/14 12:53*	*09/15/14 17:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
2,2'-oxybis(1-chloropropane)	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
2,4-Dinitrotoluene	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
2,6-Dinitrotoluene	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
2-Chloronaphthalene	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
2-Methylnaphthalene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
2-Nitroaniline	ND		0.868		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
3,3'-Dichlorobenzidine	ND		0.695		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
3-Nitroaniline	ND		0.868		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
4-Bromophenyl phenyl ether	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
4-Chloroaniline	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
4-Chlorophenyl phenyl ether	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
4-Nitroaniline	ND		0.868		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Acenaphthene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Acenaphthylene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Acetophenone	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Anthracene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Atrazine	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Benzaldehyde	ND		1.74		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Benzo[a]pyrene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Benzo[a]anthracene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Benzo[b]fluoranthene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Benzo[g,h,i]perylene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Benzo[k]fluoranthene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Bis(2-chloroethoxy)methane	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Bis(2-chloroethyl)ether	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Bis(2-ethylhexyl) phthalate	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Butyl benzyl phthalate	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Caprolactam	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Carbazole	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Chrysene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Dibenz(a,h)anthracene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Dibenzofuran	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Diethyl phthalate	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Dimethyl phthalate	ND		1.74		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Di-n-butyl phthalate	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Di-n-octyl phthalate	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Fluoranthene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Fluorene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Hexachlorobenzene	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1

Client Sample ID: BRG-6
Date Collected: 09/12/14 11:00
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-4
Matrix: Soil
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Hexachlorocyclopentadiene	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Hexachloroethane	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Isophorone	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Naphthalene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Nitrobenzene	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
N-Nitrosodi-n-propylamine	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.347		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Phenanthrene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1
Pyrene	ND		0.0698		mg/Kg	☼	09/15/14 10:54	09/15/14 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 120*	*09/15/14 10:54*	*09/15/14 23:15*	*1*
2-Fluorobiphenyl (Surr)	*64*		*29 - 120*	*09/15/14 10:54*	*09/15/14 23:15*	*1*
2-Fluorophenol (Surr)	*65*		*10 - 120*	*09/15/14 10:54*	*09/15/14 23:15*	*1*
Nitrobenzene-d5 (Surr)	*65*		*27 - 120*	*09/15/14 10:54*	*09/15/14 23:15*	*1*
Phenol-d5 (Surr)	*64*		*10 - 120*	*09/15/14 10:54*	*09/15/14 23:15*	*1*
Terphenyl-d14 (Surr)	*77*		*13 - 120*	*09/15/14 10:54*	*09/15/14 23:15*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
alpha-BHC	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
beta-BHC	ND		0.00328		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
delta-BHC	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
gamma-BHC (Lindane)	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
alpha-Chlordane	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
gamma-Chlordane	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Chlordane (technical)	ND		0.0663		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
4,4'-DDD	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
4,4'-DDE	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
4,4'-DDT	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Dieldrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Endosulfan I	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Endosulfan II	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Endosulfan sulfate	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Endrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Endrin aldehyde	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Endrin ketone	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Heptachlor	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Heptachlor epoxide	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Methoxychlor	ND		0.00328		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1
Toxaphene	ND		0.0663		mg/Kg	☼	09/16/14 09:15	09/17/14 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*21 - 145*	*09/16/14 09:15*	*09/17/14 21:20*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*25 - 150*	*09/16/14 09:15*	*09/17/14 21:20*	*1*

Client Sample ID: BRG-6
Date Collected: 09/12/14 11:00
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-4
Matrix: Soil
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0331		mg/Kg	☼	09/16/14 09:15	09/18/14 05:39	1
PCB-1221	ND		0.0331		mg/Kg	☼	09/16/14 09:15	09/18/14 05:39	1
PCB-1232	ND		0.0331		mg/Kg	☼	09/16/14 09:15	09/18/14 05:39	1
PCB-1242	ND		0.0331		mg/Kg	☼	09/16/14 09:15	09/18/14 05:39	1
PCB-1248	ND		0.0331		mg/Kg	☼	09/16/14 09:15	09/18/14 05:39	1
PCB-1254	ND		0.0331		mg/Kg	☼	09/16/14 09:15	09/18/14 05:39	1
PCB-1260	ND		0.0331		mg/Kg	☼	09/16/14 09:15	09/18/14 05:39	1
PCB-1262	ND		0.0331		mg/Kg	☼	09/16/14 09:15	09/18/14 05:39	1
PCB-1268	ND		0.0331		mg/Kg	☼	09/16/14 09:15	09/18/14 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*161*	*X*	*20 - 150*	*09/16/14 09:15*	*09/18/14 05:39*	*1*
Tetrachloro-m-xylene	*105*		*19 - 147*	*09/16/14 09:15*	*09/18/14 05:39*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0733		mg/Kg	☼	09/15/14 11:49	09/16/14 20:58	1
2,4,5-T	ND		0.0346		mg/Kg	☼	09/15/14 11:49	09/16/14 20:58	1
2,4,5-TP (Silvex)	ND		0.0346		mg/Kg	☼	09/15/14 11:49	09/16/14 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*140*		*10 - 150*	*09/15/14 11:49*	*09/16/14 20:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5500**		20.7		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Antimony	ND		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Arsenic	**7.00**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Barium	**70.9**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Beryllium	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Cadmium	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Calcium	**14500**		207		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Chromium	**7.23**		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Cobalt	**7.04**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Copper	**13.3**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Iron	**15700**		41.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Lead	**2.73**		1.04		mg/Kg	☼	09/17/14 11:41	09/18/14 12:34	1
Magnesium	**3810**		207		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Manganese	**663**		3.11		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Nickel	**12.4**		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Potassium	**496**		207		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Selenium	ND		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Silver	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Sodium	ND		207		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Thallium	ND		2.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Vanadium	ND		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	1
Zinc	**35.3**		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:37	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	ND		0.105		mg/Kg	☼	09/17/14 15:02	09/18/14 11:14	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-6
Date Collected: 09/12/14 11:00
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-4
Matrix: Soil
Percent Solids: 95.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.10		mg/Kg	☼	09/18/14 13:57	09/18/14 16:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**95**		0.10		%			09/15/14 10:28	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-7
Date Collected: 09/12/14 11:04
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-5
Matrix: Soil
Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,1,2,2-Tetrachloroethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,1,2-Trichloroethane	ND		0.00610		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,1-Dichloroethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,1-Dichloroethene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,2,4-Trichlorobenzene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,2-Dibromo-3-Chloropropane	ND		0.00610		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,2-Dibromoethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,2-Dichlorobenzene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,2-Dichloroethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,2-Dichloropropane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,3-Dichlorobenzene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,4-Dichlorobenzene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
1,4-Dioxane	ND		0.244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
2-Butanone (MEK)	ND		0.0610		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
2-Hexanone	ND		0.0610		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
4-Methyl-2-pentanone (MIBK)	ND		0.0610		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Acetone	ND		0.0610		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Benzene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Bromodichloromethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Bromoform	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Bromomethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Carbon disulfide	ND		0.00610		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Carbon tetrachloride	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Chlorobenzene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Chloroethane	ND		0.00610		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Chloroform	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Chloromethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
cis-1,2-Dichloroethene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
cis-1,3-Dichloropropene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Cyclohexane	ND		0.0122		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Dibromochloromethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Dichlorodifluoromethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Ethylbenzene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Isopropylbenzene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Methyl acetate	ND		0.0122		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Methyl tert-butyl ether	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Methylcyclohexane	ND		0.0122		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Methylene Chloride	ND		0.0122		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Styrene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Tetrachloroethene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Toluene	**0.00434**		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
trans-1,2-Dichloroethene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
trans-1,3-Dichloropropene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Trichloroethene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Trichlorofluoromethane	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
Vinyl chloride	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1
m-Xylene & p-Xylene	ND		0.00366		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-7
Date Collected: 09/12/14 11:04
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-5
Matrix: Soil
Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00244		mg/Kg	☼	09/15/14 12:53	09/16/14 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*	*09/15/14 12:53*	*09/16/14 19:50*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/15/14 12:53*	*09/16/14 19:50*	*1*
Dibromofluoromethane (Surr)	*115*		*70 - 130*	*09/15/14 12:53*	*09/16/14 19:50*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*09/15/14 12:53*	*09/16/14 19:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
2,2'-oxybis(1-chloropropane)	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
2,4-Dinitrotoluene	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
2,6-Dinitrotoluene	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
2-Chloronaphthalene	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
2-Methylnaphthalene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
2-Nitroaniline	ND		0.866		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
3,3'-Dichlorobenzidine	ND		0.694		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
3-Nitroaniline	ND		0.866		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
4-Bromophenyl phenyl ether	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
4-Chloroaniline	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
4-Chlorophenyl phenyl ether	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
4-Nitroaniline	ND		0.866		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Acenaphthene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Acenaphthylene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Acetophenone	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Anthracene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Atrazine	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Benzaldehyde	ND		1.74		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Benzo[a]pyrene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Benzo[a]anthracene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Benzo[b]fluoranthene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Benzo[g,h,i]perylene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Benzo[k]fluoranthene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Bis(2-chloroethoxy)methane	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Bis(2-chloroethyl)ether	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Bis(2-ethylhexyl) phthalate	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Butyl benzyl phthalate	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Caprolactam	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Carbazole	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Chrysene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Dibenz(a,h)anthracene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Dibenzofuran	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Diethyl phthalate	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Dimethyl phthalate	ND		1.74		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Di-n-butyl phthalate	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Di-n-octyl phthalate	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Fluoranthene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Fluorene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Hexachlorobenzene	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1

Client Sample ID: BRG-7
Date Collected: 09/12/14 11:04
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-5
Matrix: Soil
Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Hexachlorocyclopentadiene	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Hexachloroethane	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Isophorone	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Naphthalene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Nitrobenzene	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
N-Nitrosodi-n-propylamine	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.346		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Phenanthrene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1
Pyrene	ND		0.0697		mg/Kg	☼	09/15/14 10:54	09/15/14 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 120*	*09/15/14 10:54*	*09/15/14 23:37*	*1*
2-Fluorobiphenyl (Surr)	*58*		*29 - 120*	*09/15/14 10:54*	*09/15/14 23:37*	*1*
2-Fluorophenol (Surr)	*57*		*10 - 120*	*09/15/14 10:54*	*09/15/14 23:37*	*1*
Nitrobenzene-d5 (Surr)	*55*		*27 - 120*	*09/15/14 10:54*	*09/15/14 23:37*	*1*
Phenol-d5 (Surr)	*59*		*10 - 120*	*09/15/14 10:54*	*09/15/14 23:37*	*1*
Terphenyl-d14 (Surr)	*81*		*13 - 120*	*09/15/14 10:54*	*09/15/14 23:37*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
alpha-BHC	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
beta-BHC	ND		0.00314		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
delta-BHC	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
gamma-BHC (Lindane)	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
alpha-Chlordane	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
gamma-Chlordane	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Chlordane (technical)	ND		0.0634		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
4,4'-DDD	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
4,4'-DDE	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
4,4'-DDT	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Dieldrin	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Endosulfan I	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Endosulfan II	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Endosulfan sulfate	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Endrin	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Endrin aldehyde	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Endrin ketone	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Heptachlor	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Heptachlor epoxide	ND		0.00162		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Methoxychlor	ND		0.00314		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1
Toxaphene	ND		0.0634		mg/Kg	☼	09/16/14 09:15	09/17/14 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*21 - 145*	*09/16/14 09:15*	*09/17/14 21:32*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*25 - 150*	*09/16/14 09:15*	*09/17/14 21:32*	*1*

Client Sample ID: BRG-7

Date Collected: 09/12/14 11:04
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-5

Matrix: Soil
Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0317		mg/Kg	☼	09/16/14 09:15	09/18/14 06:02	1
PCB-1221	ND		0.0317		mg/Kg	☼	09/16/14 09:15	09/18/14 06:02	1
PCB-1232	ND		0.0317		mg/Kg	☼	09/16/14 09:15	09/18/14 06:02	1
PCB-1242	ND		0.0317		mg/Kg	☼	09/16/14 09:15	09/18/14 06:02	1
PCB-1248	ND		0.0317		mg/Kg	☼	09/16/14 09:15	09/18/14 06:02	1
PCB-1254	ND		0.0317		mg/Kg	☼	09/16/14 09:15	09/18/14 06:02	1
PCB-1260	ND		0.0317		mg/Kg	☼	09/16/14 09:15	09/18/14 06:02	1
PCB-1262	ND		0.0317		mg/Kg	☼	09/16/14 09:15	09/18/14 06:02	1
PCB-1268	ND		0.0317		mg/Kg	☼	09/16/14 09:15	09/18/14 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*146*		*20 - 150*	*09/16/14 09:15*	*09/18/14 06:02*	*1*
Tetrachloro-m-xylene	*85*		*19 - 147*	*09/16/14 09:15*	*09/18/14 06:02*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0711		mg/Kg	☼	09/15/14 11:49	09/16/14 21:12	1
2,4,5-T	ND		0.0335		mg/Kg	☼	09/15/14 11:49	09/16/14 21:12	1
2,4,5-TP (Silvex)	ND		0.0335		mg/Kg	☼	09/15/14 11:49	09/16/14 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*39*		*10 - 150*	*09/15/14 11:49*	*09/16/14 21:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5000**		20.1		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Antimony	ND		10.0		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Arsenic	**7.56**		2.01		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Barium	**49.2**		2.01		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Beryllium	ND		1.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Cadmium	ND		1.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Calcium	**15000**		201		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Chromium	**6.41**		1.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Cobalt	**5.67**		2.01		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Copper	**11.4**		2.01		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Iron	**14300**		40.2		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Lead	**1.99**		1.00		mg/Kg	☼	09/17/14 11:41	09/18/14 12:38	1
Magnesium	**3330**		201		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Manganese	**391**		3.01		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Nickel	**10.7**		2.01		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Potassium	**537**		201		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Selenium	ND		2.01		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Silver	ND		1.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Sodium	ND		201		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Thallium	ND		2.01		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Vanadium	ND		10.0		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	1
Zinc	**30.9**		10.0		mg/Kg	☼	09/17/14 11:41	09/17/14 21:41	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	ND		0.103		mg/Kg	☼	09/17/14 15:02	09/18/14 13:13	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-7
Date Collected: 09/12/14 11:04
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-5
Matrix: Soil
Percent Solids: 95.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.09		mg/Kg	☼	09/18/14 13:57	09/18/14 16:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10		%			09/15/14 10:28	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-8
Date Collected: 09/12/14 11:06
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-6
Matrix: Soil
Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,1,2,2-Tetrachloroethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,1,2-Trichloroethane	ND		0.00532		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,1-Dichloroethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,1-Dichloroethene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,2,4-Trichlorobenzene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,2-Dibromo-3-Chloropropane	ND		0.00532		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,2-Dibromoethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,2-Dichlorobenzene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,2-Dichloroethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,2-Dichloropropane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,3-Dichlorobenzene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,4-Dichlorobenzene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
1,4-Dioxane	ND		0.213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
2-Butanone (MEK)	ND		0.0532		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
2-Hexanone	ND		0.0532		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
4-Methyl-2-pentanone (MIBK)	ND		0.0532		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Acetone	ND		0.0532		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Benzene	**0.00298**		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Bromodichloromethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Bromoform	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Bromomethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Carbon disulfide	ND		0.00532		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Carbon tetrachloride	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Chlorobenzene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Chloroethane	ND		0.00532		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Chloroform	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Chloromethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
cis-1,2-Dichloroethene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
cis-1,3-Dichloropropene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Cyclohexane	ND		0.0106		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Dibromochloromethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Dichlorodifluoromethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Ethylbenzene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Isopropylbenzene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Methyl acetate	ND		0.0106		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Methyl tert-butyl ether	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Methylcyclohexane	**0.0161**		0.0106		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Methylene Chloride	ND		0.0106		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Styrene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Tetrachloroethene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Toluene	**0.00669**		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
trans-1,2-Dichloroethene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
trans-1,3-Dichloropropene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Trichloroethene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Trichlorofluoromethane	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
Vinyl chloride	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1
m-Xylene & p-Xylene	**0.00534**		0.00319		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-8
Date Collected: 09/12/14 11:06
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-6
Matrix: Soil
Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00213		mg/Kg	☼	09/15/14 12:53	09/16/14 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*	*09/15/14 12:53*	*09/16/14 15:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/15/14 12:53*	*09/16/14 15:47*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*	*09/15/14 12:53*	*09/16/14 15:47*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*09/15/14 12:53*	*09/16/14 15:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
2,2'-oxybis(1-chloropropane)	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
2,4-Dinitrotoluene	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
2,6-Dinitrotoluene	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
2-Chloronaphthalene	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
2-Methylnaphthalene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
2-Nitroaniline	ND		0.837		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
3,3'-Dichlorobenzidine	ND		0.670		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
3-Nitroaniline	ND		0.837		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
4-Bromophenyl phenyl ether	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
4-Chloroaniline	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
4-Chlorophenyl phenyl ether	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
4-Nitroaniline	ND		0.837		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Acenaphthene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Acenaphthylene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Acetophenone	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Anthracene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Atrazine	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Benzaldehyde	ND		1.68		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Benzo[a]pyrene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Benzo[a]anthracene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Benzo[b]fluoranthene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Benzo[g,h,i]perylene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Benzo[k]fluoranthene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Bis(2-chloroethoxy)methane	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Bis(2-chloroethyl)ether	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Bis(2-ethylhexyl) phthalate	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Butyl benzyl phthalate	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Caprolactam	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Carbazole	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Chrysene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Dibenz(a,h)anthracene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Dibenzofuran	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Diethyl phthalate	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Dimethyl phthalate	ND		1.68		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Di-n-butyl phthalate	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Di-n-octyl phthalate	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Fluoranthene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Fluorene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Hexachlorobenzene	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1

Client Sample ID: BRG-8
Date Collected: 09/12/14 11:06
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-6
Matrix: Soil
Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Hexachlorocyclopentadiene	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Hexachloroethane	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Indeno[1,2,3-cd]pyrene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Isophorone	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Naphthalene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Nitrobenzene	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
N-Nitrosodi-n-propylamine	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.335		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Phenanthrene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1
Pyrene	ND		0.0673		mg/Kg	☼	09/15/14 10:54	09/15/14 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 120*	*09/15/14 10:54*	*09/15/14 23:59*	*1*
2-Fluorobiphenyl (Surr)	*62*		*29 - 120*	*09/15/14 10:54*	*09/15/14 23:59*	*1*
2-Fluorophenol (Surr)	*62*		*10 - 120*	*09/15/14 10:54*	*09/15/14 23:59*	*1*
Nitrobenzene-d5 (Surr)	*62*		*27 - 120*	*09/15/14 10:54*	*09/15/14 23:59*	*1*
Phenol-d5 (Surr)	*63*		*10 - 120*	*09/15/14 10:54*	*09/15/14 23:59*	*1*
Terphenyl-d14 (Surr)	*80*		*13 - 120*	*09/15/14 10:54*	*09/15/14 23:59*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
alpha-BHC	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
beta-BHC	ND		0.00329		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
delta-BHC	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
gamma-BHC (Lindane)	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
alpha-Chlordane	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
gamma-Chlordane	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Chlordane (technical)	ND		0.0665		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
4,4'-DDD	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
4,4'-DDE	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
4,4'-DDT	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Dieldrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Endosulfan I	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Endosulfan II	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Endosulfan sulfate	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Endrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Endrin aldehyde	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Endrin ketone	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Heptachlor	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Heptachlor epoxide	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Methoxychlor	ND		0.00329		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1
Toxaphene	ND		0.0665		mg/Kg	☼	09/16/14 09:15	09/17/14 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*21 - 145*	*09/16/14 09:15*	*09/17/14 22:08*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*25 - 150*	*09/16/14 09:15*	*09/17/14 22:08*	*1*

Client Sample ID: BRG-8
Date Collected: 09/12/14 11:06
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-6
Matrix: Soil
Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 06:25	1
PCB-1221	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 06:25	1
PCB-1232	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 06:25	1
PCB-1242	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 06:25	1
PCB-1248	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 06:25	1
PCB-1254	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 06:25	1
PCB-1260	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 06:25	1
PCB-1262	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 06:25	1
PCB-1268	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*106*		*20 - 150*	*09/16/14 09:15*	*09/18/14 06:25*	*1*
Tetrachloro-m-xylene	*92*		*19 - 147*	*09/16/14 09:15*	*09/18/14 06:25*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0719		mg/Kg	☼	09/15/14 11:49	09/16/14 21:26	1
2,4,5-T	ND		0.0339		mg/Kg	☼	09/15/14 11:49	09/16/14 21:26	1
2,4,5-TP (Silvex)	ND		0.0339		mg/Kg	☼	09/15/14 11:49	09/16/14 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*66*	*p*	*10 - 150*	*09/15/14 11:49*	*09/16/14 21:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5680**		19.9		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Antimony	ND		9.97		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Arsenic	**7.18**		1.99		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Barium	**58.3**		1.99		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Beryllium	ND		0.997		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Cadmium	ND		0.997		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Calcium	**15900**		199		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Chromium	**9.25**		0.997		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Cobalt	**6.26**		1.99		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Copper	**12.5**		1.99		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Iron	**15500**		39.9		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Lead	**1.75**		0.997		mg/Kg	☼	09/17/14 11:41	09/18/14 12:52	1
Magnesium	**3590**		199		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Manganese	**416**		2.99		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Nickel	**12.2**		1.99		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Potassium	**602**		199		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Selenium	ND		1.99		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Silver	ND		0.997		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Sodium	ND		199		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Thallium	ND		1.99		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Vanadium	ND		9.97		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	1
Zinc	**33.0**		9.97		mg/Kg	☼	09/17/14 11:41	09/17/14 21:44	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	ND		0.104		mg/Kg	☼	09/17/14 15:02	09/18/14 13:14	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-8
Date Collected: 09/12/14 11:06
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-6
Matrix: Soil
Percent Solids: 96.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.07		mg/Kg	☼	09/18/14 13:57	09/18/14 16:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10		%			09/15/14 10:28	1

Client Sample ID: BRG-9
Date Collected: 09/12/14 11:09
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-7
Matrix: Soil
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,1,2,2-Tetrachloroethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,1,2-Trichloroethane	ND		0.00548		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,1-Dichloroethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,1-Dichloroethene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,2,4-Trichlorobenzene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,2-Dibromo-3-Chloropropane	ND		0.00548		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,2-Dibromoethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,2-Dichlorobenzene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,2-Dichloroethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,2-Dichloropropane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,3-Dichlorobenzene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,4-Dichlorobenzene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
1,4-Dioxane	ND		0.219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
2-Butanone (MEK)	ND		0.0548		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
2-Hexanone	ND		0.0548		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.0548		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Acetone	ND		0.0548		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Benzene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Bromodichloromethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Bromoform	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Bromomethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Carbon disulfide	ND		0.00548		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Carbon tetrachloride	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Chlorobenzene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Chloroethane	ND		0.00548		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Chloroform	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Chloromethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
cis-1,2-Dichloroethene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
cis-1,3-Dichloropropene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Cyclohexane	ND		0.0110		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Dibromochloromethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Dichlorodifluoromethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Ethylbenzene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Isopropylbenzene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Methyl acetate	ND		0.0110		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Methyl tert-butyl ether	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Methylcyclohexane	ND		0.0110		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Methylene Chloride	ND		0.0110		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Styrene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Tetrachloroethene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Toluene	**0.00492**		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
trans-1,2-Dichloroethene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
trans-1,3-Dichloropropene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Trichloroethene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Trichlorofluoromethane	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
Vinyl chloride	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1
m-Xylene & p-Xylene	**0.00393**		0.00329		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-9
Date Collected: 09/12/14 11:09
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-7
Matrix: Soil
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00219		mg/Kg	☼	09/15/14 12:53	09/16/14 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*09/15/14 12:53*	*09/16/14 16:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/15/14 12:53*	*09/16/14 16:18*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*	*09/15/14 12:53*	*09/16/14 16:18*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*09/15/14 12:53*	*09/16/14 16:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
2,2'-oxybis(1-chloropropane)	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
2,4-Dinitrotoluene	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
2,6-Dinitrotoluene	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
2-Chloronaphthalene	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
2-Methylnaphthalene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
2-Nitroaniline	ND		0.830		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
3,3'-Dichlorobenzidine	ND		0.664		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
3-Nitroaniline	ND		0.830		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
4-Bromophenyl phenyl ether	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
4-Chloroaniline	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
4-Chlorophenyl phenyl ether	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
4-Nitroaniline	ND		0.830		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Acenaphthene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Acenaphthylene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Acetophenone	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Anthracene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Atrazine	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Benzaldehyde	ND		1.66		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Benzo[a]pyrene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Benzo[a]anthracene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Benzo[b]fluoranthene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Benzo[g,h,i]perylene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Benzo[k]fluoranthene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Bis(2-chloroethoxy)methane	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Bis(2-chloroethyl)ether	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Bis(2-ethylhexyl) phthalate	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Butyl benzyl phthalate	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Caprolactam	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Carbazole	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Chrysene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Dibenz(a,h)anthracene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Dibenzofuran	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Diethyl phthalate	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Dimethyl phthalate	ND		1.66		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Di-n-butyl phthalate	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Di-n-octyl phthalate	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Fluoranthene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Fluorene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Hexachlorobenzene	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1

Client Sample ID: BRG-9
Date Collected: 09/12/14 11:09
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-7
Matrix: Soil
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Hexachlorocyclopentadiene	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Hexachloroethane	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Isophorone	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Naphthalene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Nitrobenzene	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
N-Nitrosodi-n-propylamine	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.332		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Phenanthrene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1
Pyrene	ND		0.0667		mg/Kg	☼	09/15/14 10:54	09/16/14 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 120*	*09/15/14 10:54*	*09/16/14 00:22*	*1*
2-Fluorobiphenyl (Surr)	*68*		*29 - 120*	*09/15/14 10:54*	*09/16/14 00:22*	*1*
2-Fluorophenol (Surr)	*74*		*10 - 120*	*09/15/14 10:54*	*09/16/14 00:22*	*1*
Nitrobenzene-d5 (Surr)	*70*		*27 - 120*	*09/15/14 10:54*	*09/16/14 00:22*	*1*
Phenol-d5 (Surr)	*76*		*10 - 120*	*09/15/14 10:54*	*09/16/14 00:22*	*1*
Terphenyl-d14 (Surr)	*90*		*13 - 120*	*09/15/14 10:54*	*09/16/14 00:22*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
alpha-BHC	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
beta-BHC	ND		0.00323		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
delta-BHC	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
gamma-BHC (Lindane)	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
alpha-Chlordane	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
gamma-Chlordane	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Chlordane (technical)	ND		0.0653		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
4,4'-DDD	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
4,4'-DDE	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
4,4'-DDT	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Dieldrin	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Endosulfan I	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Endosulfan II	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Endosulfan sulfate	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Endrin	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Endrin aldehyde	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Endrin ketone	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Heptachlor	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Heptachlor epoxide	ND		0.00166		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Methoxychlor	ND		0.00323		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1
Toxaphene	ND		0.0653		mg/Kg	☼	09/16/14 09:15	09/17/14 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*21 - 145*	*09/16/14 09:15*	*09/17/14 22:20*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*25 - 150*	*09/16/14 09:15*	*09/17/14 22:20*	*1*

Client Sample ID: BRG-9

Date Collected: 09/12/14 11:09
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-7

Matrix: Soil
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0326		mg/Kg	☼	09/16/14 09:15	09/18/14 15:52	1
PCB-1221	ND		0.0326		mg/Kg	☼	09/16/14 09:15	09/18/14 15:52	1
PCB-1232	ND		0.0326		mg/Kg	☼	09/16/14 09:15	09/18/14 15:52	1
PCB-1242	ND		0.0326		mg/Kg	☼	09/16/14 09:15	09/18/14 15:52	1
PCB-1248	**0.0374**		0.0326		mg/Kg	☼	09/16/14 09:15	09/18/14 15:52	1
PCB-1254	ND		0.0326		mg/Kg	☼	09/16/14 09:15	09/18/14 15:52	1
PCB-1260	ND		0.0326		mg/Kg	☼	09/16/14 09:15	09/18/14 15:52	1
PCB-1262	ND		0.0326		mg/Kg	☼	09/16/14 09:15	09/18/14 15:52	1
PCB-1268	ND		0.0326		mg/Kg	☼	09/16/14 09:15	09/18/14 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*115*		*20 - 150*	*09/16/14 09:15*	*09/18/14 15:52*	*1*
Tetrachloro-m-xylene	*98*		*19 - 147*	*09/16/14 09:15*	*09/18/14 15:52*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0717		mg/Kg	☼	09/15/14 11:49	09/16/14 21:41	1
2,4,5-T	ND		0.0338		mg/Kg	☼	09/15/14 11:49	09/16/14 21:41	1
2,4,5-TP (Silvex)	ND		0.0338		mg/Kg	☼	09/15/14 11:49	09/16/14 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*40*	*p*	*10 - 150*	*09/15/14 11:49*	*09/16/14 21:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4220**		20.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Antimony	ND		10.2		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Arsenic	**4.62**		2.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Barium	**45.7**		2.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Beryllium	ND		1.02		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Cadmium	ND		1.02		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Calcium	**10600**		204		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Chromium	**4.97**		1.02		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Cobalt	**4.52**		2.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Copper	**10.7**		2.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Iron	**12100**		40.9		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Lead	**2.41**		1.02		mg/Kg	☼	09/17/14 11:41	09/18/14 12:56	1
Magnesium	**2540**		204		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Manganese	**315**		3.07		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Nickel	**8.54**		2.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Potassium	**389**		204		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Selenium	ND		2.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Silver	ND		1.02		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Sodium	ND		204		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Thallium	ND		2.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Vanadium	ND		10.2		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	1
Zinc	**29.5**		10.2		mg/Kg	☼	09/17/14 11:41	09/17/14 21:48	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	ND		0.103		mg/Kg	☼	09/17/14 15:02	09/18/14 13:16	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-9
Date Collected: 09/12/14 11:09
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-7
Matrix: Soil
Percent Solids: 97.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.06		mg/Kg	☼	09/18/14 13:57	09/18/14 16:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10		%			09/15/14 10:28	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-10
Date Collected: 09/12/14 11:10
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-8
Matrix: Soil
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,1,2,2-Tetrachloroethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,1,2-Trichloroethane	ND		0.00549		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,1-Dichloroethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,1-Dichloroethene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,2,4-Trichlorobenzene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,2-Dibromo-3-Chloropropane	ND		0.00549		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,2-Dibromoethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,2-Dichlorobenzene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,2-Dichloroethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,2-Dichloropropane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,3-Dichlorobenzene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,4-Dichlorobenzene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
1,4-Dioxane	ND		0.220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
2-Butanone (MEK)	ND		0.0549		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
2-Hexanone	ND		0.0549		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.0549		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Acetone	ND		0.0549		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Benzene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Bromodichloromethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Bromoform	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Bromomethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Carbon disulfide	ND		0.00549		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Carbon tetrachloride	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Chlorobenzene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Chloroethane	ND		0.00549		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Chloroform	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Chloromethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
cis-1,2-Dichloroethene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
cis-1,3-Dichloropropene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Cyclohexane	ND		0.0110		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Dibromochloromethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Dichlorodifluoromethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Ethylbenzene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Isopropylbenzene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Methyl acetate	ND		0.0110		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Methyl tert-butyl ether	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Methylcyclohexane	ND		0.0110		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Methylene Chloride	ND		0.0110		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Styrene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Tetrachloroethene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Toluene	**0.00508**		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
trans-1,2-Dichloroethene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
trans-1,3-Dichloropropene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Trichloroethene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Trichlorofluoromethane	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
Vinyl chloride	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1
m-Xylene & p-Xylene	**0.00408**		0.00329		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-10
Date Collected: 09/12/14 11:10
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-8
Matrix: Soil
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00220		mg/Kg	☼	09/15/14 12:54	09/16/14 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*	*09/15/14 12:54*	*09/16/14 16:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/15/14 12:54*	*09/16/14 16:48*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*09/15/14 12:54*	*09/16/14 16:48*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*09/15/14 12:54*	*09/16/14 16:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
2,2'-oxybis(1-chloropropane)	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
2,4-Dinitrotoluene	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
2,6-Dinitrotoluene	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
2-Chloronaphthalene	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
2-Methylnaphthalene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
2-Nitroaniline	ND		0.840		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
3,3'-Dichlorobenzidine	ND		0.673		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
3-Nitroaniline	ND		0.840		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
4-Bromophenyl phenyl ether	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
4-Chloroaniline	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
4-Chlorophenyl phenyl ether	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
4-Nitroaniline	ND		0.840		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Acenaphthene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Acenaphthylene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Acetophenone	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Anthracene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Atrazine	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Benzaldehyde	ND		1.68		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Benzo[a]pyrene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Benzo[a]anthracene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Benzo[b]fluoranthene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Benzo[g,h,i]perylene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Benzo[k]fluoranthene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Bis(2-chloroethoxy)methane	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Bis(2-chloroethyl)ether	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Bis(2-ethylhexyl) phthalate	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Butyl benzyl phthalate	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Caprolactam	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Carbazole	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Chrysene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Dibenz(a,h)anthracene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Dibenzofuran	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Diethyl phthalate	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Dimethyl phthalate	ND		1.68		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Di-n-butyl phthalate	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Di-n-octyl phthalate	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Fluoranthene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Fluorene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Hexachlorobenzene	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1

Client Sample ID: BRG-10
Date Collected: 09/12/14 11:10
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-8
Matrix: Soil
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Hexachlorocyclopentadiene	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Hexachloroethane	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Isophorone	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Naphthalene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Nitrobenzene	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
N-Nitrosodi-n-propylamine	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.336		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Phenanthrene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1
Pyrene	ND		0.0676		mg/Kg	☼	09/15/14 10:54	09/16/14 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 120*	*09/15/14 10:54*	*09/16/14 00:44*	*1*
2-Fluorobiphenyl (Surr)	*56*		*29 - 120*	*09/15/14 10:54*	*09/16/14 00:44*	*1*
2-Fluorophenol (Surr)	*55*		*10 - 120*	*09/15/14 10:54*	*09/16/14 00:44*	*1*
Nitrobenzene-d5 (Surr)	*55*		*27 - 120*	*09/15/14 10:54*	*09/16/14 00:44*	*1*
Phenol-d5 (Surr)	*56*		*10 - 120*	*09/15/14 10:54*	*09/16/14 00:44*	*1*
Terphenyl-d14 (Surr)	*73*		*13 - 120*	*09/15/14 10:54*	*09/16/14 00:44*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
alpha-BHC	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
beta-BHC	ND		0.00329		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
delta-BHC	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
gamma-BHC (Lindane)	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
alpha-Chlordane	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
gamma-Chlordane	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Chlordane (technical)	ND		0.0664		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
4,4'-DDD	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
4,4'-DDE	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
4,4'-DDT	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Dieldrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Endosulfan I	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Endosulfan II	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Endosulfan sulfate	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Endrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Endrin aldehyde	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Endrin ketone	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Heptachlor	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Heptachlor epoxide	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Methoxychlor	ND		0.00329		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1
Toxaphene	ND		0.0664		mg/Kg	☼	09/16/14 09:15	09/17/14 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*21 - 145*	*09/16/14 09:15*	*09/17/14 22:33*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*25 - 150*	*09/16/14 09:15*	*09/17/14 22:33*	*1*

Client Sample ID: BRG-10
Date Collected: 09/12/14 11:10
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-8
Matrix: Soil
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:11	1
PCB-1221	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:11	1
PCB-1232	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:11	1
PCB-1242	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:11	1
PCB-1248	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:11	1
PCB-1254	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:11	1
PCB-1260	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:11	1
PCB-1262	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:11	1
PCB-1268	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*105*		*20 - 150*	*09/16/14 09:15*	*09/18/14 07:11*	*1*
Tetrachloro-m-xylene	*94*		*19 - 147*	*09/16/14 09:15*	*09/18/14 07:11*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0716		mg/Kg	☼	09/15/14 11:49	09/16/14 22:23	1
2,4,5-T	ND		0.0338		mg/Kg	☼	09/15/14 11:49	09/16/14 22:23	1
2,4,5-TP (Silvex)	ND		0.0338		mg/Kg	☼	09/15/14 11:49	09/16/14 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*83*	*p*	*10 - 150*	*09/15/14 11:49*	*09/16/14 22:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4870**		20.0		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Antimony	ND		10.0		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Arsenic	**5.90**		2.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Barium	**45.7**		2.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Beryllium	ND		1.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Cadmium	ND		1.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Calcium	**9950**		200		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Chromium	**6.12**		1.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Cobalt	**4.88**		2.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Copper	**14.6**		2.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Iron	**14700**		40.0		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Lead	ND		1.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Magnesium	**2740**		200		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Manganese	**307**		3.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Nickel	**9.70**		2.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Potassium	**466**		200		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Selenium	ND		2.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Silver	ND		1.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Sodium	ND		200		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Thallium	ND		2.00		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Vanadium	ND		10.0		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	1
Zinc	**34.7**		10.0		mg/Kg	☼	09/17/14 11:41	09/17/14 21:51	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	ND		0.102		mg/Kg	☼	09/17/14 15:02	09/18/14 13:18	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-10
Date Collected: 09/12/14 11:10
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-8
Matrix: Soil
Percent Solids: 97.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.06		mg/Kg	☼	09/18/14 13:57	09/18/14 16:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10		%			09/15/14 10:28	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-11
Date Collected: 09/12/14 11:15
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-9
Matrix: Soil
Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,1,2,2-Tetrachloroethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,1,2-Trichloroethane	ND		0.00443		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,1-Dichloroethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,1-Dichloroethene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,2,4-Trichlorobenzene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,2-Dibromo-3-Chloropropane	ND		0.00443		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,2-Dibromoethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,2-Dichlorobenzene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,2-Dichloroethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,2-Dichloropropane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,3-Dichlorobenzene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,4-Dichlorobenzene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
1,4-Dioxane	ND		0.177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
2-Butanone (MEK)	ND		0.0443		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
2-Hexanone	ND		0.0443		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.0443		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Acetone	ND		0.0443		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Benzene	**0.00221**		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Bromodichloromethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Bromoform	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Bromomethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Carbon disulfide	ND		0.00443		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Carbon tetrachloride	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Chlorobenzene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Chloroethane	ND		0.00443		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Chloroform	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Chloromethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
cis-1,2-Dichloroethene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
cis-1,3-Dichloropropene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Cyclohexane	ND		0.00887		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Dibromochloromethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Dichlorodifluoromethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Ethylbenzene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Isopropylbenzene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Methyl acetate	ND		0.00887		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Methyl tert-butyl ether	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Methylcyclohexane	**0.0111**		0.00887		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Methylene Chloride	ND		0.00887		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Styrene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Tetrachloroethene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Toluene	**0.00505**		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
trans-1,2-Dichloroethene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
trans-1,3-Dichloropropene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Trichloroethene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Trichlorofluoromethane	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
Vinyl chloride	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1
m-Xylene & p-Xylene	**0.00422**		0.00266		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-11
Date Collected: 09/12/14 11:15
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-9
Matrix: Soil
Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00177		mg/Kg	☼	09/15/14 12:54	09/16/14 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*	*09/15/14 12:54*	*09/16/14 17:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/15/14 12:54*	*09/16/14 17:19*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*	*09/15/14 12:54*	*09/16/14 17:19*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*09/15/14 12:54*	*09/16/14 17:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
2,2'-oxybis(1-chloropropane)	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
2,4-Dinitrotoluene	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
2,6-Dinitrotoluene	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
2-Chloronaphthalene	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
2-Methylnaphthalene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
2-Nitroaniline	ND		0.850		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
3,3'-Dichlorobenzidine	ND		0.681		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
3-Nitroaniline	ND		0.850		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
4-Bromophenyl phenyl ether	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
4-Chloroaniline	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
4-Chlorophenyl phenyl ether	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
4-Nitroaniline	ND		0.850		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Acenaphthene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Acenaphthylene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Acetophenone	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Anthracene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Atrazine	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Benzaldehyde	ND		1.70		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Benzo[a]pyrene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Benzo[a]anthracene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Benzo[b]fluoranthene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Benzo[g,h,i]perylene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Benzo[k]fluoranthene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Bis(2-chloroethoxy)methane	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Bis(2-chloroethyl)ether	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Bis(2-ethylhexyl) phthalate	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Butyl benzyl phthalate	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Caprolactam	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Carbazole	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Chrysene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Dibenz(a,h)anthracene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Dibenzofuran	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Diethyl phthalate	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Dimethyl phthalate	ND		1.70		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Di-n-butyl phthalate	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Di-n-octyl phthalate	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Fluoranthene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Fluorene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Hexachlorobenzene	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1

Client Sample ID: BRG-11
Date Collected: 09/12/14 11:15
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-9
Matrix: Soil
Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Hexachlorocyclopentadiene	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Hexachloroethane	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Indeno[1,2,3-cd]pyrene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Isophorone	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Naphthalene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Nitrobenzene	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
N-Nitrosodi-n-propylamine	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.340		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Phenanthrene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1
Pyrene	ND		0.0684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 120*	*09/15/14 10:54*	*09/16/14 01:06*	*1*
2-Fluorobiphenyl (Surr)	*52*		*29 - 120*	*09/15/14 10:54*	*09/16/14 01:06*	*1*
2-Fluorophenol (Surr)	*54*		*10 - 120*	*09/15/14 10:54*	*09/16/14 01:06*	*1*
Nitrobenzene-d5 (Surr)	*51*		*27 - 120*	*09/15/14 10:54*	*09/16/14 01:06*	*1*
Phenol-d5 (Surr)	*54*		*10 - 120*	*09/15/14 10:54*	*09/16/14 01:06*	*1*
Terphenyl-d14 (Surr)	*76*		*13 - 120*	*09/15/14 10:54*	*09/16/14 01:06*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
alpha-BHC	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
beta-BHC	ND		0.00329		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
delta-BHC	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
gamma-BHC (Lindane)	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
alpha-Chlordane	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
gamma-Chlordane	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Chlordane (technical)	ND		0.0665		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
4,4'-DDD	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
4,4'-DDE	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
4,4'-DDT	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Dieldrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Endosulfan I	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Endosulfan II	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Endosulfan sulfate	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Endrin	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Endrin aldehyde	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Endrin ketone	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Heptachlor	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Heptachlor epoxide	ND		0.00169		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Methoxychlor	ND		0.00329		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1
Toxaphene	ND		0.0665		mg/Kg	☼	09/16/14 09:15	09/17/14 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*21 - 145*	*09/16/14 09:15*	*09/17/14 22:45*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*25 - 150*	*09/16/14 09:15*	*09/17/14 22:45*	*1*

Client Sample ID: BRG-11
Date Collected: 09/12/14 11:15
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-9
Matrix: Soil
Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:34	1
PCB-1221	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:34	1
PCB-1232	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:34	1
PCB-1242	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:34	1
PCB-1248	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:34	1
PCB-1254	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:34	1
PCB-1260	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:34	1
PCB-1262	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:34	1
PCB-1268	ND		0.0332		mg/Kg	☼	09/16/14 09:15	09/18/14 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*111*		*20 - 150*	*09/16/14 09:15*	*09/18/14 07:34*	*1*
Tetrachloro-m-xylene	*107*		*19 - 147*	*09/16/14 09:15*	*09/18/14 07:34*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0713		mg/Kg	☼	09/15/14 11:49	09/16/14 22:37	1
2,4,5-T	ND		0.0336		mg/Kg	☼	09/15/14 11:49	09/16/14 22:37	1
2,4,5-TP (Silvex)	ND		0.0336		mg/Kg	☼	09/15/14 11:49	09/16/14 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*64*		*10 - 150*	*09/15/14 11:49*	*09/16/14 22:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5520**		20.3		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Antimony	ND		10.2		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Arsenic	**9.19**		2.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Barium	**65.6**		2.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Beryllium	ND		1.02		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Cadmium	ND		1.02		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Calcium	**22400**		203		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Chromium	**6.98**		1.02		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Cobalt	**6.35**		2.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Copper	**12.6**		2.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Iron	**17400**		40.7		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Lead	**2.28**		1.02		mg/Kg	☼	09/17/14 11:41	09/18/14 13:03	1
Magnesium	**3510**		203		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Manganese	**574**		3.05		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Nickel	**12.0**		2.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Potassium	**553**		203		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Selenium	ND		2.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Silver	ND		1.02		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Sodium	ND		203		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Thallium	ND		2.03		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Vanadium	**10.6**		10.2		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	1
Zinc	**34.0**		10.2		mg/Kg	☼	09/17/14 11:41	09/17/14 21:55	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	ND		0.103		mg/Kg	☼	09/17/14 15:02	09/18/14 13:20	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-11
Date Collected: 09/12/14 11:15
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-9
Matrix: Soil
Percent Solids: 97.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.05		mg/Kg	☼	09/18/14 13:57	09/18/14 16:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10		%			09/15/14 10:28	1

Client Sample ID: BRG-12
Date Collected: 09/12/14 11:17
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-10
Matrix: Soil
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,1,2,2-Tetrachloroethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,1,2-Trichloroethane	ND		0.00538		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,1-Dichloroethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,1-Dichloroethene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,2,4-Trichlorobenzene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,2-Dibromo-3-Chloropropane	ND		0.00538		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,2-Dibromoethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,2-Dichlorobenzene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,2-Dichloroethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,2-Dichloropropane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,3-Dichlorobenzene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,4-Dichlorobenzene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
1,4-Dioxane	ND		0.215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
2-Butanone (MEK)	ND		0.0538		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
2-Hexanone	ND		0.0538		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0538		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Acetone	ND		0.0538		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Benzene	**0.00353**		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Bromodichloromethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Bromoform	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Bromomethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Carbon disulfide	ND		0.00538		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Carbon tetrachloride	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Chlorobenzene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Chloroethane	ND		0.00538		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Chloroform	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Chloromethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
cis-1,2-Dichloroethene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
cis-1,3-Dichloropropene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Cyclohexane	ND		0.0108		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Dibromochloromethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Dichlorodifluoromethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Ethylbenzene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Isopropylbenzene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Methyl acetate	ND		0.0108		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Methyl tert-butyl ether	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Methylcyclohexane	**0.0192**		0.0108		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Methylene Chloride	ND		0.0108		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Styrene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Tetrachloroethene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Toluene	**0.00802**		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
trans-1,2-Dichloroethene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
trans-1,3-Dichloropropene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Trichloroethene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Trichlorofluoromethane	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
Vinyl chloride	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1
m-Xylene & p-Xylene	**0.00644**		0.00323		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1

Client Sample ID: BRG-12
Date Collected: 09/12/14 11:17
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-10
Matrix: Soil
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00215		mg/Kg	☼	09/15/14 12:54	09/16/14 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*09/15/14 12:54*	*09/16/14 17:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/15/14 12:54*	*09/16/14 17:49*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*	*09/15/14 12:54*	*09/16/14 17:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*09/15/14 12:54*	*09/16/14 17:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
2,2'-oxybis(1-chloropropane)	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
2,4-Dinitrotoluene	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
2,6-Dinitrotoluene	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
2-Chloronaphthalene	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
2-Methylnaphthalene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
2-Nitroaniline	ND		0.853		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
3,3'-Dichlorobenzidine	ND		0.683		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
3-Nitroaniline	ND		0.853		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
4-Bromophenyl phenyl ether	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
4-Chloroaniline	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
4-Chlorophenyl phenyl ether	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
4-Nitroaniline	ND		0.853		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Acenaphthene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Acenaphthylene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Acetophenone	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Anthracene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Atrazine	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Benzaldehyde	ND		1.71		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Benzo[a]pyrene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Benzo[a]anthracene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Benzo[b]fluoranthene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Benzo[g,h,i]perylene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Benzo[k]fluoranthene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Bis(2-chloroethoxy)methane	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Bis(2-chloroethyl)ether	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Bis(2-ethylhexyl) phthalate	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Butyl benzyl phthalate	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Caprolactam	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Carbazole	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Chrysene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Dibenz(a,h)anthracene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Dibenzofuran	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Diethyl phthalate	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Dimethyl phthalate	ND		1.71		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Di-n-butyl phthalate	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Di-n-octyl phthalate	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Fluoranthene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Fluorene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Hexachlorobenzene	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1

Client Sample ID: BRG-12
Date Collected: 09/12/14 11:17
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-10
Matrix: Soil
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Hexachlorocyclopentadiene	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Hexachloroethane	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Isophorone	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Naphthalene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Nitrobenzene	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
N-Nitrosodi-n-propylamine	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.341		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Phenanthrene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1
Pyrene	ND		0.0686		mg/Kg	☼	09/15/14 10:54	09/16/14 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 120*	*09/15/14 10:54*	*09/16/14 01:29*	*1*
2-Fluorobiphenyl (Surr)	*68*		*29 - 120*	*09/15/14 10:54*	*09/16/14 01:29*	*1*
2-Fluorophenol (Surr)	*70*		*10 - 120*	*09/15/14 10:54*	*09/16/14 01:29*	*1*
Nitrobenzene-d5 (Surr)	*67*		*27 - 120*	*09/15/14 10:54*	*09/16/14 01:29*	*1*
Phenol-d5 (Surr)	*68*		*10 - 120*	*09/15/14 10:54*	*09/16/14 01:29*	*1*
Terphenyl-d14 (Surr)	*84*		*13 - 120*	*09/15/14 10:54*	*09/16/14 01:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
alpha-BHC	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
beta-BHC	ND		0.00326		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
delta-BHC	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
gamma-BHC (Lindane)	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
alpha-Chlordane	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
gamma-Chlordane	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Chlordane (technical)	ND		0.0659		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
4,4'-DDD	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
4,4'-DDE	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
4,4'-DDT	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Dieldrin	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Endosulfan I	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Endosulfan II	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Endosulfan sulfate	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Endrin	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Endrin aldehyde	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Endrin ketone	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Heptachlor	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Heptachlor epoxide	ND		0.00168		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Methoxychlor	ND		0.00326		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1
Toxaphene	ND		0.0659		mg/Kg	☼	09/16/14 09:15	09/17/14 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*21 - 145*	*09/16/14 09:15*	*09/17/14 22:57*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*25 - 150*	*09/16/14 09:15*	*09/17/14 22:57*	*1*

Client Sample ID: BRG-12
Date Collected: 09/12/14 11:17
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-10
Matrix: Soil
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0329		mg/Kg	☼	09/16/14 09:15	09/18/14 07:57	1
PCB-1221	ND		0.0329		mg/Kg	☼	09/16/14 09:15	09/18/14 07:57	1
PCB-1232	ND		0.0329		mg/Kg	☼	09/16/14 09:15	09/18/14 07:57	1
PCB-1242	ND		0.0329		mg/Kg	☼	09/16/14 09:15	09/18/14 07:57	1
PCB-1248	ND		0.0329		mg/Kg	☼	09/16/14 09:15	09/18/14 07:57	1
PCB-1254	ND		0.0329		mg/Kg	☼	09/16/14 09:15	09/18/14 07:57	1
PCB-1260	ND		0.0329		mg/Kg	☼	09/16/14 09:15	09/18/14 07:57	1
PCB-1262	ND		0.0329		mg/Kg	☼	09/16/14 09:15	09/18/14 07:57	1
PCB-1268	ND		0.0329		mg/Kg	☼	09/16/14 09:15	09/18/14 07:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*142*		*20 - 150*	*09/16/14 09:15*	*09/18/14 07:57*	*1*
Tetrachloro-m-xylene	*88*		*19 - 147*	*09/16/14 09:15*	*09/18/14 07:57*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0730		mg/Kg	☼	09/15/14 11:49	09/16/14 22:52	1
2,4,5-T	ND		0.0344		mg/Kg	☼	09/15/14 11:49	09/16/14 22:52	1
2,4,5-TP (Silvex)	ND		0.0344		mg/Kg	☼	09/15/14 11:49	09/16/14 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*102*	*p*	*10 - 150*	*09/15/14 11:49*	*09/16/14 22:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5410**		20.9		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Antimony	ND		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Arsenic	**18.8**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Barium	**61.4**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Beryllium	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Cadmium	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Calcium	**14800**		209		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Chromium	**6.55**		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Cobalt	**5.99**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Copper	**12.7**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Iron	**15300**		41.7		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Lead	**6.97**		1.04		mg/Kg	☼	09/17/14 11:41	09/18/14 13:07	1
Magnesium	**3530**		209		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Manganese	**464**		3.13		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Nickel	**11.2**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Potassium	**561**		209		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Selenium	ND		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Silver	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Sodium	ND		209		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Thallium	ND		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Vanadium	ND		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	1
Zinc	**33.8**		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 21:58	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	ND		0.103		mg/Kg	☼	09/17/14 15:02	09/18/14 13:22	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-12
Date Collected: 09/12/14 11:17
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-10
Matrix: Soil
Percent Solids: 95.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.10		mg/Kg	☼	09/18/14 13:57	09/18/14 16:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			09/15/14 10:28	1

Client Sample ID: BRG-13
Date Collected: 09/12/14 11:21
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-11
Matrix: Soil
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,1,2,2-Tetrachloroethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,1,2-Trichloroethane	ND		0.00578		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,1-Dichloroethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,1-Dichloroethene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,2,4-Trichlorobenzene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,2-Dibromo-3-Chloropropane	ND		0.00578		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,2-Dibromoethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,2-Dichlorobenzene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,2-Dichloroethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,2-Dichloropropane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,3-Dichlorobenzene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,4-Dichlorobenzene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
1,4-Dioxane	ND		0.231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
2-Butanone (MEK)	ND		0.0578		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
2-Hexanone	ND		0.0578		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.0578		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Acetone	ND		0.0578		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Benzene	**0.00438**		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Bromodichloromethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Bromoform	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Bromomethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Carbon disulfide	ND		0.00578		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Carbon tetrachloride	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Chlorobenzene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Chloroethane	ND		0.00578		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Chloroform	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Chloromethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
cis-1,2-Dichloroethene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
cis-1,3-Dichloropropene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Cyclohexane	**0.0121**		0.0116		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Dibromochloromethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Dichlorodifluoromethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Ethylbenzene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Isopropylbenzene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Methyl acetate	ND		0.0116		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Methyl tert-butyl ether	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Methylcyclohexane	**0.0227**		0.0116		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Methylene Chloride	ND		0.0116		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Styrene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Tetrachloroethene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Toluene	**0.00964**		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
trans-1,2-Dichloroethene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
trans-1,3-Dichloropropene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Trichloroethene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Trichlorofluoromethane	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
Vinyl chloride	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1
m-Xylene & p-Xylene	**0.00786**		0.00347		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-13
Date Collected: 09/12/14 11:21
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-11
Matrix: Soil
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00231		mg/Kg	☼	09/15/14 12:54	09/16/14 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*	*09/15/14 12:54*	*09/16/14 18:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/15/14 12:54*	*09/16/14 18:19*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*	*09/15/14 12:54*	*09/16/14 18:19*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*09/15/14 12:54*	*09/16/14 18:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
2,2'-oxybis(1-chloropropane)	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
2,4-Dinitrotoluene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
2,6-Dinitrotoluene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
2-Chloronaphthalene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
2-Methylnaphthalene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
2-Nitroaniline	ND		0.854		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
3,3'-Dichlorobenzidine	ND		0.684		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
3-Nitroaniline	ND		0.854		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
4-Bromophenyl phenyl ether	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
4-Chloroaniline	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
4-Chlorophenyl phenyl ether	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
4-Nitroaniline	ND		0.854		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Acenaphthene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Acenaphthylene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Acetophenone	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Anthracene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Atrazine	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Benzaldehyde	ND		1.71		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Benzo[a]pyrene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Benzo[a]anthracene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Benzo[b]fluoranthene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Benzo[g,h,i]perylene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Benzo[k]fluoranthene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Bis(2-chloroethoxy)methane	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Bis(2-chloroethyl)ether	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Bis(2-ethylhexyl) phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Butyl benzyl phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Caprolactam	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Carbazole	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Chrysene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Dibenz(a,h)anthracene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Dibenzofuran	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Diethyl phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Dimethyl phthalate	ND		1.71		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Di-n-butyl phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Di-n-octyl phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Fluoranthene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Fluorene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Hexachlorobenzene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1

Client Sample ID: BRG-13
Date Collected: 09/12/14 11:21
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-11
Matrix: Soil
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Hexachlorocyclopentadiene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Hexachloroethane	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Indeno[1,2,3-cd]pyrene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Isophorone	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Naphthalene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Nitrobenzene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
N-Nitrosodi-n-propylamine	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Phenanthrene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1
Pyrene	ND		0.0687		mg/Kg	☼	09/15/14 10:54	09/16/14 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 120*	*09/15/14 10:54*	*09/16/14 01:51*	*1*
2-Fluorobiphenyl (Surr)	*57*		*29 - 120*	*09/15/14 10:54*	*09/16/14 01:51*	*1*
2-Fluorophenol (Surr)	*56*		*10 - 120*	*09/15/14 10:54*	*09/16/14 01:51*	*1*
Nitrobenzene-d5 (Surr)	*55*		*27 - 120*	*09/15/14 10:54*	*09/16/14 01:51*	*1*
Phenol-d5 (Surr)	*58*		*10 - 120*	*09/15/14 10:54*	*09/16/14 01:51*	*1*
Terphenyl-d14 (Surr)	*81*		*13 - 120*	*09/15/14 10:54*	*09/16/14 01:51*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
alpha-BHC	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
beta-BHC	ND		0.00325		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
delta-BHC	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
gamma-BHC (Lindane)	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
alpha-Chlordane	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
gamma-Chlordane	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Chlordane (technical)	ND		0.0657		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
4,4'-DDD	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
4,4'-DDE	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
4,4'-DDT	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Dieldrin	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Endosulfan I	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Endosulfan II	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Endosulfan sulfate	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Endrin	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Endrin aldehyde	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Endrin ketone	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Heptachlor	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Heptachlor epoxide	ND		0.00167		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Methoxychlor	ND		0.00325		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1
Toxaphene	ND		0.0657		mg/Kg	☼	09/16/14 09:15	09/17/14 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*21 - 145*	*09/16/14 09:15*	*09/17/14 23:09*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*25 - 150*	*09/16/14 09:15*	*09/17/14 23:09*	*1*

Client Sample ID: BRG-13

Date Collected: 09/12/14 11:21
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-11

Matrix: Soil
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 09:06	1
PCB-1221	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 09:06	1
PCB-1232	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 09:06	1
PCB-1242	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 09:06	1
PCB-1248	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 09:06	1
PCB-1254	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 09:06	1
PCB-1260	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 09:06	1
PCB-1262	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 09:06	1
PCB-1268	ND		0.0328		mg/Kg	☼	09/16/14 09:15	09/18/14 09:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*142*		*20 - 150*	*09/16/14 09:15*	*09/18/14 09:06*	*1*
Tetrachloro-m-xylene	*86*		*19 - 147*	*09/16/14 09:15*	*09/18/14 09:06*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0729		mg/Kg	☼	09/15/14 11:49	09/16/14 23:06	1
2,4,5-T	ND		0.0343		mg/Kg	☼	09/15/14 11:49	09/16/14 23:06	1
2,4,5-TP (Silvex)	ND		0.0343		mg/Kg	☼	09/15/14 11:49	09/16/14 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*18*		*10 - 150*	*09/15/14 11:49*	*09/16/14 23:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4840**		20.9		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Antimony	ND		10.5		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Arsenic	**5.20**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Barium	**55.0**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Beryllium	ND		1.05		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Cadmium	ND		1.05		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Calcium	**17900**		209		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Chromium	**6.10**		1.05		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Cobalt	**5.76**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Copper	**11.5**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Iron	**14500**		41.9		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Lead	**2.24**		1.05		mg/Kg	☼	09/17/14 11:41	09/18/14 13:10	1
Magnesium	**3680**		209		mg/Kg	☼	09/17/14 11:41	09/18/14 13:10	1
Manganese	**408**		3.14		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Nickel	**10.7**		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Potassium	**477**		209		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Selenium	ND		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Silver	ND		1.05		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Sodium	ND		209		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Thallium	ND		2.09		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Vanadium	ND		10.5		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	1
Zinc	**31.9**		10.5		mg/Kg	☼	09/17/14 11:41	09/17/14 22:14	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	ND		0.106		mg/Kg	☼	09/17/14 15:02	09/18/14 13:24	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-13
Date Collected: 09/12/14 11:21
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-11
Matrix: Soil
Percent Solids: 95.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.10		mg/Kg	☼	09/18/14 13:57	09/18/14 17:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			09/15/14 10:28	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-14
Date Collected: 09/12/14 11:23
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-12
Matrix: Soil
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,1,2,2-Tetrachloroethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,1,2-Trichloroethane	ND		0.00437		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,1-Dichloroethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,1-Dichloroethene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,2,4-Trichlorobenzene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,2-Dibromo-3-Chloropropane	ND		0.00437		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,2-Dibromoethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,2-Dichlorobenzene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,2-Dichloroethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,2-Dichloropropane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,3-Dichlorobenzene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,4-Dichlorobenzene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
1,4-Dioxane	ND		0.175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
2-Butanone (MEK)	ND		0.0437		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
2-Hexanone	ND		0.0437		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
4-Methyl-2-pentanone (MIBK)	ND		0.0437		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Acetone	ND		0.0437		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Benzene	**0.00331**		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Bromodichloromethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Bromoform	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Bromomethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Carbon disulfide	ND		0.00437		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Carbon tetrachloride	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Chlorobenzene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Chloroethane	ND		0.00437		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Chloroform	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Chloromethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
cis-1,2-Dichloroethene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
cis-1,3-Dichloropropene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Cyclohexane	**0.00992**		0.00873		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Dibromochloromethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Dichlorodifluoromethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Ethylbenzene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Isopropylbenzene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Methyl acetate	ND		0.00873		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Methyl tert-butyl ether	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Methylcyclohexane	**0.0188**		0.00873		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Methylene Chloride	ND		0.00873		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Styrene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Tetrachloroethene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Toluene	**0.00745**		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
trans-1,2-Dichloroethene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
trans-1,3-Dichloropropene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Trichloroethene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Trichlorofluoromethane	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
Vinyl chloride	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1
m-Xylene & p-Xylene	**0.00605**		0.00262		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-14
Date Collected: 09/12/14 11:23
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-12
Matrix: Soil
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00175		mg/Kg	☼	09/15/14 12:54	09/16/14 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*	*09/15/14 12:54*	*09/16/14 18:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/15/14 12:54*	*09/16/14 18:50*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*	*09/15/14 12:54*	*09/16/14 18:50*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*09/15/14 12:54*	*09/16/14 18:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
2,2'-oxybis(1-chloropropane)	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
2,4-Dinitrotoluene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
2,6-Dinitrotoluene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
2-Chloronaphthalene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
2-Methylnaphthalene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
2-Nitroaniline	ND		0.855		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
3,3'-Dichlorobenzidine	ND		0.685		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
3-Nitroaniline	ND		0.855		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
4-Bromophenyl phenyl ether	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
4-Chloroaniline	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
4-Chlorophenyl phenyl ether	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
4-Nitroaniline	ND		0.855		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Acenaphthene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Acenaphthylene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Acetophenone	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Anthracene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Atrazine	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Benzaldehyde	ND		1.71		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Benzo[a]pyrene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Benzo[a]anthracene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Benzo[b]fluoranthene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Benzo[g,h,i]perylene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Benzo[k]fluoranthene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Bis(2-chloroethoxy)methane	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Bis(2-chloroethyl)ether	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Bis(2-ethylhexyl) phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Butyl benzyl phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Caprolactam	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Carbazole	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Chrysene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Dibenz(a,h)anthracene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Dibenzofuran	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Diethyl phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Dimethyl phthalate	ND		1.71		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Di-n-butyl phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Di-n-octyl phthalate	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Fluoranthene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Fluorene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Hexachlorobenzene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1

Client Sample ID: BRG-14
Date Collected: 09/12/14 11:23
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-12
Matrix: Soil
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Hexachlorocyclopentadiene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Hexachloroethane	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Indeno[1,2,3-cd]pyrene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Isophorone	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Naphthalene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Nitrobenzene	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
N-Nitrosodi-n-propylamine	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.342		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Phenanthrene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1
Pyrene	ND		0.0688		mg/Kg	☼	09/15/14 10:54	09/16/14 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 120*	*09/15/14 10:54*	*09/16/14 20:07*	*1*
2-Fluorobiphenyl (Surr)	*61*		*29 - 120*	*09/15/14 10:54*	*09/16/14 20:07*	*1*
2-Fluorophenol (Surr)	*60*		*10 - 120*	*09/15/14 10:54*	*09/16/14 20:07*	*1*
Nitrobenzene-d5 (Surr)	*65*		*27 - 120*	*09/15/14 10:54*	*09/16/14 20:07*	*1*
Phenol-d5 (Surr)	*60*		*10 - 120*	*09/15/14 10:54*	*09/16/14 20:07*	*1*
Terphenyl-d14 (Surr)	*68*		*13 - 120*	*09/15/14 10:54*	*09/16/14 20:07*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
alpha-BHC	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
beta-BHC	ND		0.00321		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
delta-BHC	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
gamma-BHC (Lindane)	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
alpha-Chlordane	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
gamma-Chlordane	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Chlordane (technical)	ND		0.0649		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
4,4'-DDD	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
4,4'-DDE	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
4,4'-DDT	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Dieldrin	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Endosulfan I	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Endosulfan II	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Endosulfan sulfate	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Endrin	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Endrin aldehyde	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Endrin ketone	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Heptachlor	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Heptachlor epoxide	ND		0.00165		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Methoxychlor	ND		0.00321		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1
Toxaphene	ND		0.0649		mg/Kg	☼	09/16/14 09:21	09/17/14 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*21 - 145*	*09/16/14 09:21*	*09/17/14 23:21*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*25 - 150*	*09/16/14 09:21*	*09/17/14 23:21*	*1*

Client Sample ID: BRG-14
Date Collected: 09/12/14 11:23
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-12
Matrix: Soil
Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0324		mg/Kg	☼	09/16/14 09:21	09/18/14 09:30	1
PCB-1221	ND		0.0324		mg/Kg	☼	09/16/14 09:21	09/18/14 09:30	1
PCB-1232	ND		0.0324		mg/Kg	☼	09/16/14 09:21	09/18/14 09:30	1
PCB-1242	ND		0.0324		mg/Kg	☼	09/16/14 09:21	09/18/14 09:30	1
PCB-1248	ND		0.0324		mg/Kg	☼	09/16/14 09:21	09/18/14 09:30	1
PCB-1254	ND		0.0324		mg/Kg	☼	09/16/14 09:21	09/18/14 09:30	1
PCB-1260	ND		0.0324		mg/Kg	☼	09/16/14 09:21	09/18/14 09:30	1
PCB-1262	ND		0.0324		mg/Kg	☼	09/16/14 09:21	09/18/14 09:30	1
PCB-1268	ND		0.0324		mg/Kg	☼	09/16/14 09:21	09/18/14 09:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*142*		*20 - 150*	*09/16/14 09:21*	*09/18/14 09:30*	*1*
Tetrachloro-m-xylene	*84*		*19 - 147*	*09/16/14 09:21*	*09/18/14 09:30*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0734		mg/Kg	☼	09/15/14 11:49	09/16/14 23:20	1
2,4,5-T	ND		0.0346		mg/Kg	☼	09/15/14 11:49	09/16/14 23:20	1
2,4,5-TP (Silvex)	ND		0.0346		mg/Kg	☼	09/15/14 11:49	09/16/14 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*20*		*10 - 150*	*09/15/14 11:49*	*09/16/14 23:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5920**		20.8		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Antimony	ND		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Arsenic	**8.37**		2.08		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Barium	**63.6**		2.08		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Beryllium	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Cadmium	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Calcium	**14000**		208		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Chromium	**6.98**		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Cobalt	**7.10**		2.08		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Copper	**13.6**		2.08		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Iron	**15200**		41.7		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Lead	**4.02**		1.04		mg/Kg	☼	09/17/14 11:41	09/18/14 13:14	1
Magnesium	**3390**		208		mg/Kg	☼	09/17/14 11:41	09/18/14 13:14	1
Manganese	**442**		3.12		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Nickel	**12.3**		2.08		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Potassium	**796**		208		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Selenium	ND		2.08		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Silver	ND		1.04		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Sodium	ND		208		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Thallium	ND		2.08		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Vanadium	ND		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	1
Zinc	**35.7**		10.4		mg/Kg	☼	09/17/14 11:41	09/17/14 22:18	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	ND		0.105		mg/Kg	☼	09/17/14 15:02	09/18/14 13:26	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-14
Date Collected: 09/12/14 11:23
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-12
Matrix: Soil
Percent Solids: 95.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.10		mg/Kg	☼	09/18/14 13:57	09/18/14 17:01	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			09/15/14 10:28	1

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

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

Lab Sample ID: MB 490-190563/7
Matrix: Solid
Analysis Batch: 190563

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		0.00200		mg/Kg			09/15/14 12:44	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg			09/15/14 12:44	1
1,1-Dichloroethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,1-Dichloroethene	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg			09/15/14 12:44	1
1,2-Dibromoethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,2-Dichloropropane	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg			09/15/14 12:44	1
1,4-Dioxane	ND		0.200		mg/Kg			09/15/14 12:44	1
2-Butanone (MEK)	ND		0.0500		mg/Kg			09/15/14 12:44	1
2-Hexanone	ND		0.0500		mg/Kg			09/15/14 12:44	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg			09/15/14 12:44	1
Acetone	ND		0.0500		mg/Kg			09/15/14 12:44	1
Benzene	ND		0.00200		mg/Kg			09/15/14 12:44	1
Bromodichloromethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
Bromoform	ND		0.00200		mg/Kg			09/15/14 12:44	1
Bromomethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
Carbon disulfide	ND		0.00500		mg/Kg			09/15/14 12:44	1
Carbon tetrachloride	ND		0.00200		mg/Kg			09/15/14 12:44	1
Chlorobenzene	ND		0.00200		mg/Kg			09/15/14 12:44	1
Chloroethane	ND		0.00500		mg/Kg			09/15/14 12:44	1
Chloroform	ND		0.00200		mg/Kg			09/15/14 12:44	1
Chloromethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg			09/15/14 12:44	1
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg			09/15/14 12:44	1
Cyclohexane	ND		0.0100		mg/Kg			09/15/14 12:44	1
Dibromochloromethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
Dichlorodifluoromethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
Ethylbenzene	ND		0.00200		mg/Kg			09/15/14 12:44	1
Isopropylbenzene	ND		0.00200		mg/Kg			09/15/14 12:44	1
Methyl acetate	ND		0.0100		mg/Kg			09/15/14 12:44	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/15/14 12:44	1
Methylcyclohexane	ND		0.0100		mg/Kg			09/15/14 12:44	1
Methylene Chloride	ND		0.0100		mg/Kg			09/15/14 12:44	1
Styrene	ND		0.00200		mg/Kg			09/15/14 12:44	1
Tetrachloroethene	ND		0.00200		mg/Kg			09/15/14 12:44	1
Toluene	ND		0.00200		mg/Kg			09/15/14 12:44	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg			09/15/14 12:44	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg			09/15/14 12:44	1
Trichloroethene	ND		0.00200		mg/Kg			09/15/14 12:44	1
Trichlorofluoromethane	ND		0.00200		mg/Kg			09/15/14 12:44	1
Vinyl chloride	ND		0.00200		mg/Kg			09/15/14 12:44	1

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

Lab Sample ID: MB 490-190563/7
Matrix: Solid
Analysis Batch: 190563

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		0.00300		mg/Kg			09/15/14 12:44	1
o-Xylene	ND		0.00200		mg/Kg			09/15/14 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*09/15/14 12:44*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*09/15/14 12:44*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*09/15/14 12:44*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/15/14 12:44*	*1*

Lab Sample ID: LCS 490-190563/3
Matrix: Solid
Analysis Batch: 190563

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.0500	0.05476		mg/Kg		110	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.04914		mg/Kg		98	66 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05514		mg/Kg		110	67 - 136
1,1,2-Trichloroethane	0.0500	0.04938		mg/Kg		99	78 - 128
1,1-Dichloroethane	0.0500	0.05629		mg/Kg		113	75 - 124
1,1-Dichloroethene	0.0500	0.05320		mg/Kg		106	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.04395		mg/Kg		88	62 - 150
1,2-Dibromo-3-Chloropropane	0.0500	0.04649		mg/Kg		93	49 - 142
1,2-Dibromoethane	0.0500	0.04780		mg/Kg		96	80 - 135
1,2-Dichlorobenzene	0.0500	0.04875		mg/Kg		98	80 - 134
1,2-Dichloroethane	0.0500	0.05269		mg/Kg		105	65 - 134
1,2-Dichloropropane	0.0500	0.05187		mg/Kg		104	69 - 120
1,3-Dichlorobenzene	0.0500	0.04985		mg/Kg		100	79 - 137
1,4-Dichlorobenzene	0.0500	0.04972		mg/Kg		99	77 - 139
1,4-Dioxane	1.00	0.7945		mg/Kg		79	37 - 150
2-Butanone (MEK)	0.250	0.2393		mg/Kg		96	61 - 132
2-Hexanone	0.250	0.2057		mg/Kg		82	57 - 148
4-Methyl-2-pentanone (MIBK)	0.250	0.2169		mg/Kg		87	59 - 138
Acetone	0.250	0.2429		mg/Kg		97	51 - 149
Benzene	0.0500	0.05312		mg/Kg		106	75 - 127
Bromodichloromethane	0.0500	0.05510		mg/Kg		110	68 - 135
Bromoform	0.0500	0.06062		mg/Kg		121	36 - 150
Bromomethane	0.0500	0.08617	*	mg/Kg		172	43 - 142
Carbon disulfide	0.0500	0.05293		mg/Kg		106	74 - 135
Carbon tetrachloride	0.0500	0.05607		mg/Kg		112	70 - 141
Chlorobenzene	0.0500	0.04773		mg/Kg		95	84 - 125
Chloroethane	0.0500	0.05397		mg/Kg		108	53 - 144
Chloroform	0.0500	0.05186		mg/Kg		104	76 - 130
Chloromethane	0.0500	0.07527	*	mg/Kg		151	23 - 150
cis-1,2-Dichloroethene	0.0500	0.05037		mg/Kg		101	75 - 125
cis-1,3-Dichloropropene	0.0500	0.04491		mg/Kg		90	73 - 148
Cyclohexane	0.0500	0.04690		mg/Kg		94	70 - 133
Dibromochloromethane	0.0500	0.05503		mg/Kg		110	66 - 134

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

Lab Sample ID: LCS 490-190563/3
Matrix: Solid
Analysis Batch: 190563

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0500	0.05718		mg/Kg		114	12 - 144
Ethylbenzene	0.0500	0.04431		mg/Kg		89	80 - 134
Isopropylbenzene	0.0500	0.04299		mg/Kg		86	80 - 150
Methyl acetate	0.250	0.2982		mg/Kg		119	11 - 170
Methyl tert-butyl ether	0.0500	0.05447		mg/Kg		109	70 - 136
Methylcyclohexane	0.0500	0.04631		mg/Kg		93	69 - 140
Methylene Chloride	0.0500	0.05725		mg/Kg		115	68 - 144
Styrene	0.0500	0.04656		mg/Kg		93	82 - 137
Tetrachloroethene	0.0500	0.05000		mg/Kg		100	78 - 140
Toluene	0.0500	0.04734		mg/Kg		95	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05177		mg/Kg		104	76 - 128
trans-1,3-Dichloropropene	0.0500	0.04551		mg/Kg		91	62 - 139
Trichloroethene	0.0500	0.05131		mg/Kg		103	77 - 127
Trichlorofluoromethane	0.0500	0.05319		mg/Kg		106	50 - 140
Vinyl chloride	0.0500	0.05362		mg/Kg		107	47 - 136
m-Xylene & p-Xylene	0.0500	0.04311		mg/Kg		86	80 - 137
o-Xylene	0.0500	0.04637		mg/Kg		93	80 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 490-190563/4
Matrix: Solid
Analysis Batch: 190563

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.05493		mg/Kg		110	72 - 140	0	50
1,1,2,2-Tetrachloroethane	0.0500	0.04844		mg/Kg		97	66 - 134	1	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05392		mg/Kg		108	67 - 136	2	50
1,1,2-Trichloroethane	0.0500	0.05029		mg/Kg		101	78 - 128	2	50
1,1-Dichloroethane	0.0500	0.05378		mg/Kg		108	75 - 124	5	50
1,1-Dichloroethene	0.0500	0.05353		mg/Kg		107	75 - 131	1	50
1,2,4-Trichlorobenzene	0.0500	0.04285		mg/Kg		86	62 - 150	3	50
1,2-Dibromo-3-Chloropropane	0.0500	0.04737		mg/Kg		95	49 - 142	2	50
1,2-Dibromoethane	0.0500	0.04802		mg/Kg		96	80 - 135	0	50
1,2-Dichlorobenzene	0.0500	0.04892		mg/Kg		98	80 - 134	0	50
1,2-Dichloroethane	0.0500	0.05317		mg/Kg		106	65 - 134	1	50
1,2-Dichloropropane	0.0500	0.05184		mg/Kg		104	69 - 120	0	50
1,3-Dichlorobenzene	0.0500	0.05010		mg/Kg		100	79 - 137	1	50
1,4-Dichlorobenzene	0.0500	0.04908		mg/Kg		98	77 - 139	1	50
1,4-Dioxane	1.00	0.8181		mg/Kg		82	37 - 150	3	50
2-Butanone (MEK)	0.250	0.2423		mg/Kg		97	61 - 132	1	50
2-Hexanone	0.250	0.2114		mg/Kg		85	57 - 148	3	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2203		mg/Kg		88	59 - 138	2	50

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

Lab Sample ID: LCSD 490-190563/4
Matrix: Solid
Analysis Batch: 190563

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.250	0.2288		mg/Kg		92	51 - 149	6	50
Benzene	0.0500	0.05338		mg/Kg		107	75 - 127	0	50
Bromodichloromethane	0.0500	0.05589		mg/Kg		112	68 - 135	1	50
Bromoform	0.0500	0.06194		mg/Kg		124	36 - 150	2	50
Bromomethane	0.0500	0.08910	*	mg/Kg		178	43 - 142	3	50
Carbon disulfide	0.0500	0.05309		mg/Kg		106	74 - 135	0	50
Carbon tetrachloride	0.0500	0.05597		mg/Kg		112	70 - 141	0	50
Chlorobenzene	0.0500	0.04834		mg/Kg		97	84 - 125	1	50
Chloroethane	0.0500	0.05415		mg/Kg		108	53 - 144	0	50
Chloroform	0.0500	0.05277		mg/Kg		106	76 - 130	2	49
Chloromethane	0.0500	0.07650	*	mg/Kg		153	23 - 150	2	50
cis-1,2-Dichloroethene	0.0500	0.05068		mg/Kg		101	75 - 125	1	50
cis-1,3-Dichloropropene	0.0500	0.04460		mg/Kg		89	73 - 148	1	50
Cyclohexane	0.0500	0.04657		mg/Kg		93	70 - 133	1	50
Dibromochloromethane	0.0500	0.05489		mg/Kg		110	66 - 134	0	50
Dichlorodifluoromethane	0.0500	0.05658		mg/Kg		113	12 - 144	1	50
Ethylbenzene	0.0500	0.04415		mg/Kg		88	80 - 134	0	50
Isopropylbenzene	0.0500	0.04301		mg/Kg		86	80 - 150	0	50
Methyl acetate	0.250	0.2946		mg/Kg		118	11 - 170	1	50
Methyl tert-butyl ether	0.0500	0.05222		mg/Kg		104	70 - 136	4	50
Methylcyclohexane	0.0500	0.04554		mg/Kg		91	69 - 140	2	50
Methylene Chloride	0.0500	0.05613		mg/Kg		112	68 - 144	2	50
Styrene	0.0500	0.04602		mg/Kg		92	82 - 137	1	50
Tetrachloroethene	0.0500	0.04940		mg/Kg		99	78 - 140	1	50
Toluene	0.0500	0.04677		mg/Kg		94	80 - 132	1	50
trans-1,2-Dichloroethene	0.0500	0.05426		mg/Kg		109	76 - 128	5	50
trans-1,3-Dichloropropene	0.0500	0.04546		mg/Kg		91	62 - 139	0	50
Trichloroethene	0.0500	0.05143		mg/Kg		103	77 - 127	0	50
Trichlorofluoromethane	0.0500	0.05496		mg/Kg		110	50 - 140	3	50
Vinyl chloride	0.0500	0.05398		mg/Kg		108	47 - 136	1	50
m-Xylene & p-Xylene	0.0500	0.04314		mg/Kg		86	80 - 137	0	50
o-Xylene	0.0500	0.04665		mg/Kg		93	80 - 141	1	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: 490-61422-5 MS
Matrix: Soil
Analysis Batch: 190563

Client Sample ID: BRG-7
Prep Type: Total/NA
Prep Batch: 190675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		0.0401	0.04758		mg/Kg	☼	119	35 - 149
1,1,2,2-Tetrachloroethane	ND		0.0401	0.04097		mg/Kg	☼	102	10 - 162
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		0.0401	0.05196		mg/Kg	☼	129	42 - 147

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

Lab Sample ID: 490-61422-5 MS
Matrix: Soil
Analysis Batch: 190563

Client Sample ID: BRG-7
Prep Type: Total/NA
Prep Batch: 190675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	ND		0.0401	0.04168		mg/Kg	☼	104	19 - 157
1,1-Dichloroethane	ND		0.0401	0.04864		mg/Kg	☼	121	42 - 136
1,1-Dichloroethene	ND		0.0401	0.04723		mg/Kg	☼	118	41 - 143
1,2,4-Trichlorobenzene	ND		0.0401	0.02663		mg/Kg	☼	66	10 - 167
1,2-Dibromo-3-Chloropropane	ND		0.0401	0.02851		mg/Kg	☼	71	10 - 147
1,2-Dibromoethane	ND		0.0401	0.03902		mg/Kg	☼	97	18 - 156
1,2-Dichlorobenzene	ND		0.0401	0.04128		mg/Kg	☼	103	10 - 160
1,2-Dichloroethane	ND		0.0401	0.04483		mg/Kg	☼	112	28 - 138
1,2-Dichloropropane	ND		0.0401	0.04433		mg/Kg	☼	110	20 - 146
1,3-Dichlorobenzene	ND		0.0401	0.04323		mg/Kg	☼	108	10 - 162
1,4-Dichlorobenzene	ND		0.0401	0.04333		mg/Kg	☼	108	11 - 159
1,4-Dioxane	ND		0.803	0.7398		mg/Kg	☼	92	15 - 200
2-Butanone (MEK)	ND		0.201	0.1962		mg/Kg	☼	98	18 - 153
2-Hexanone	ND		0.201	0.1607		mg/Kg	☼	80	10 - 169
4-Methyl-2-pentanone (MIBK)	ND		0.201	0.1643		mg/Kg	☼	82	10 - 168
Acetone	ND		0.201	0.1915		mg/Kg	☼	95	19 - 175
Benzene	0.00276		0.0401	0.04830		mg/Kg	☼	113	31 - 143
Bromodichloromethane	ND		0.0401	0.04682		mg/Kg	☼	117	19 - 148
Bromoform	ND		0.0401	0.04940		mg/Kg	☼	123	10 - 165
Bromomethane	ND		0.0401	0.05959		mg/Kg	☼	148	10 - 164
Carbon disulfide	ND		0.0401	0.04652		mg/Kg	☼	116	32 - 144
Carbon tetrachloride	ND		0.0401	0.04945		mg/Kg	☼	123	31 - 149
Chlorobenzene	ND		0.0401	0.04012		mg/Kg	☼	100	25 - 152
Chloroethane	ND		0.0401	0.04576		mg/Kg	☼	114	10 - 151
Chloroform	ND		0.0401	0.04566		mg/Kg	☼	112	34 - 160
Chloromethane	ND		0.0401	0.06137		mg/Kg	☼	153	10 - 156
cis-1,2-Dichloroethene	ND		0.0401	0.04315		mg/Kg	☼	108	36 - 139
cis-1,3-Dichloropropene	ND		0.0401	0.01943		mg/Kg	☼	48	15 - 166
Cyclohexane	ND		0.0401	0.04411		mg/Kg	☼	95	32 - 158
Dibromochloromethane	ND		0.0401	0.04514		mg/Kg	☼	112	14 - 146
Dichlorodifluoromethane	ND		0.0401	0.04989		mg/Kg	☼	124	10 - 143
Ethylbenzene	ND		0.0401	0.03754		mg/Kg	☼	92	23 - 161
Isopropylbenzene	ND		0.0401	0.03509		mg/Kg	☼	87	23 - 181
Methyl acetate	ND		0.201	0.3048		mg/Kg	☼	152	10 - 200
Methyl tert-butyl ether	ND		0.0401	0.04465		mg/Kg	☼	111	28 - 141
Methylcyclohexane	0.0115		0.0401	0.04643		mg/Kg	☼	87	29 - 167
Methylene Chloride	ND		0.0401	0.05302		mg/Kg	☼	125	24 - 182
Styrene	ND		0.0401	0.01823		mg/Kg	☼	45	10 - 165
Tetrachloroethene	ND		0.0401	0.04452		mg/Kg	☼	111	33 - 161
Toluene	0.00665		0.0401	0.04263		mg/Kg	☼	90	30 - 155
trans-1,2-Dichloroethene	ND		0.0401	0.04734		mg/Kg	☼	118	39 - 140
trans-1,3-Dichloropropene	ND		0.0401	0.03563		mg/Kg	☼	89	10 - 157
Trichloroethene	ND		0.0401	0.04559		mg/Kg	☼	114	27 - 153
Trichlorofluoromethane	ND		0.0401	0.04733		mg/Kg	☼	118	25 - 140
Vinyl chloride	ND		0.0401	0.04732		mg/Kg	☼	118	20 - 141
m-Xylene & p-Xylene	0.00529		0.0401	0.04012		mg/Kg	☼	87	27 - 162
o-Xylene	ND		0.0401	0.03800		mg/Kg	☼	92	18 - 166

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

Lab Sample ID: 490-61422-5 MS
Matrix: Soil
Analysis Batch: 190563

Client Sample ID: BRG-7
Prep Type: Total/NA
Prep Batch: 190675

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	117		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Lab Sample ID: 490-61422-5 MSD
Matrix: Soil
Analysis Batch: 190563

Client Sample ID: BRG-7
Prep Type: Total/NA
Prep Batch: 190675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		0.0424	0.04342		mg/Kg	☼	102	35 - 149	9	50
1,1,2,2-Tetrachloroethane	ND		0.0424	0.03949		mg/Kg	☼	93	10 - 162	4	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0424	0.04691		mg/Kg	☼	111	42 - 147	10	50
1,1,2-Trichloroethane	ND		0.0424	0.04048		mg/Kg	☼	95	19 - 157	3	50
1,1-Dichloroethane	ND		0.0424	0.04227		mg/Kg	☼	100	42 - 136	14	50
1,1-Dichloroethene	ND		0.0424	0.04435		mg/Kg	☼	105	41 - 143	6	50
1,2,4-Trichlorobenzene	ND		0.0424	0.02966		mg/Kg	☼	70	10 - 167	11	50
1,2-Dibromo-3-Chloropropane	ND		0.0424	0.03675		mg/Kg	☼	87	10 - 147	25	50
1,2-Dibromoethane	ND		0.0424	0.03877		mg/Kg	☼	91	18 - 156	1	50
1,2-Dichlorobenzene	ND		0.0424	0.03797		mg/Kg	☼	90	10 - 160	8	50
1,2-Dichloroethane	ND		0.0424	0.04126		mg/Kg	☼	97	28 - 138	8	50
1,2-Dichloropropane	ND		0.0424	0.04087		mg/Kg	☼	96	20 - 146	8	50
1,3-Dichlorobenzene	ND		0.0424	0.04047		mg/Kg	☼	95	10 - 162	7	50
1,4-Dichlorobenzene	ND		0.0424	0.03718		mg/Kg	☼	88	11 - 159	15	50
1,4-Dioxane	ND		0.848	0.7704		mg/Kg	☼	91	15 - 200	4	50
2-Butanone (MEK)	ND		0.212	0.2004		mg/Kg	☼	95	18 - 153	2	50
2-Hexanone	ND		0.212	0.1660		mg/Kg	☼	78	10 - 169	3	50
4-Methyl-2-pentanone (MIBK)	ND		0.212	0.1749		mg/Kg	☼	82	10 - 168	6	50
Acetone	ND		0.212	0.1937		mg/Kg	☼	91	19 - 175	1	50
Benzene	0.00276		0.0424	0.04464		mg/Kg	☼	99	31 - 143	8	50
Bromodichloromethane	ND		0.0424	0.04252		mg/Kg	☼	100	19 - 148	10	50
Bromoform	ND		0.0424	0.04704		mg/Kg	☼	111	10 - 165	5	50
Bromomethane	ND		0.0424	0.05920		mg/Kg	☼	140	10 - 164	1	50
Carbon disulfide	ND		0.0424	0.04223		mg/Kg	☼	100	32 - 144	10	50
Carbon tetrachloride	ND		0.0424	0.04516		mg/Kg	☼	106	31 - 149	9	50
Chlorobenzene	ND		0.0424	0.03837		mg/Kg	☼	90	25 - 152	4	50
Chloroethane	ND		0.0424	0.04200		mg/Kg	☼	99	10 - 151	9	50
Chloroform	ND		0.0424	0.04141		mg/Kg	☼	96	34 - 160	10	49
Chloromethane	ND		0.0424	0.05907		mg/Kg	☼	139	10 - 156	4	50
cis-1,2-Dichloroethene	ND		0.0424	0.04094		mg/Kg	☼	97	36 - 139	5	50
cis-1,3-Dichloropropene	ND		0.0424	0.03604	F2	mg/Kg	☼	85	15 - 166	60	50
Cyclohexane	ND		0.0424	0.04315		mg/Kg	☼	88	32 - 158	2	550
Dibromochloromethane	ND		0.0424	0.04277		mg/Kg	☼	101	14 - 146	5	50
Dichlorodifluoromethane	ND		0.0424	0.04595		mg/Kg	☼	108	10 - 143	8	50
Ethylbenzene	ND		0.0424	0.03645		mg/Kg	☼	84	23 - 161	3	50
Isopropylbenzene	ND		0.0424	0.03378		mg/Kg	☼	80	23 - 181	4	50
Methyl acetate	ND		0.212	0.2655		mg/Kg	☼	125	10 - 200	14	50

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

Lab Sample ID: 490-61422-5 MSD
Matrix: Soil
Analysis Batch: 190563

Client Sample ID: BRG-7
Prep Type: Total/NA
Prep Batch: 190675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		0.0424	0.04513		mg/Kg	☼	106	28 - 141	1	50
Methylcyclohexane	0.0115		0.0424	0.04833		mg/Kg	☼	87	29 - 167	4	50
Methylene Chloride	ND		0.0424	0.04935		mg/Kg	☼	109	24 - 182	7	50
Styrene	ND		0.0424	0.008965	F2	mg/Kg	☼	21	10 - 165	68	50
Tetrachloroethene	ND		0.0424	0.04345		mg/Kg	☼	102	33 - 161	2	50
Toluene	0.00665		0.0424	0.04382		mg/Kg	☼	88	30 - 155	3	50
trans-1,2-Dichloroethene	ND		0.0424	0.04173		mg/Kg	☼	98	39 - 140	13	50
trans-1,3-Dichloropropene	ND		0.0424	0.03512		mg/Kg	☼	83	10 - 157	1	50
Trichloroethene	ND		0.0424	0.04301		mg/Kg	☼	101	27 - 153	6	50
Trichlorofluoromethane	ND		0.0424	0.04696		mg/Kg	☼	111	25 - 140	1	50
Vinyl chloride	ND		0.0424	0.04355		mg/Kg	☼	103	20 - 141	8	50
m-Xylene & p-Xylene	0.00529		0.0424	0.04009		mg/Kg	☼	82	27 - 162	0	50
o-Xylene	ND		0.0424	0.03575		mg/Kg	☼	81	18 - 166	6	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: 490-61422-12 MS
Matrix: Soil
Analysis Batch: 190813

Client Sample ID: BRG-14
Prep Type: Total/NA
Prep Batch: 190675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		0.0463	0.02916		mg/Kg	☼	63	35 - 149
1,1,2,2-Tetrachloroethane	ND		0.0463	0.03527		mg/Kg	☼	76	10 - 162
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0463	0.02881		mg/Kg	☼	62	42 - 147
1,1,2-Trichloroethane	ND		0.0463	0.03582		mg/Kg	☼	77	19 - 157
1,1-Dichloroethane	ND		0.0463	0.02945		mg/Kg	☼	64	42 - 136
1,1-Dichloroethene	ND		0.0463	0.02641		mg/Kg	☼	57	41 - 143
1,2,4-Trichlorobenzene	ND		0.0463	0.01688		mg/Kg	☼	36	10 - 167
1,2-Dibromo-3-Chloropropane	ND		0.0463	0.03301		mg/Kg	☼	71	10 - 147
1,2-Dibromoethane	ND		0.0463	0.04036		mg/Kg	☼	87	18 - 156
1,2-Dichlorobenzene	ND		0.0463	0.02286		mg/Kg	☼	49	10 - 160
1,2-Dichloroethane	ND		0.0463	0.03520		mg/Kg	☼	76	28 - 138
1,2-Dichloropropane	ND		0.0463	0.03246		mg/Kg	☼	70	20 - 146
1,3-Dichlorobenzene	ND		0.0463	0.02110		mg/Kg	☼	46	10 - 162
1,4-Dichlorobenzene	ND		0.0463	0.01953		mg/Kg	☼	42	11 - 159
1,4-Dioxane	ND		0.926	0.9546		mg/Kg	☼	103	15 - 200
2-Butanone (MEK)	ND		0.231	0.2297		mg/Kg	☼	99	18 - 153
2-Hexanone	ND		0.231	0.2033		mg/Kg	☼	88	10 - 169
4-Methyl-2-pentanone (MIBK)	ND		0.231	0.2176		mg/Kg	☼	94	10 - 168
Acetone	ND		0.231	0.2630		mg/Kg	☼	114	19 - 175
Benzene	0.00331		0.0463	0.03168		mg/Kg	☼	61	31 - 143
Bromodichloromethane	ND		0.0463	0.03387		mg/Kg	☼	73	19 - 148
Bromoform	ND		0.0463	0.02543		mg/Kg	☼	55	10 - 165

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

Lab Sample ID: 490-61422-12 MS
Matrix: Soil
Analysis Batch: 190813

Client Sample ID: BRG-14
Prep Type: Total/NA
Prep Batch: 190675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	ND		0.0463	0.02269		mg/Kg	☼	49	10 - 164
Carbon disulfide	ND		0.0463	0.02666		mg/Kg	☼	58	32 - 144
Carbon tetrachloride	ND		0.0463	0.02905		mg/Kg	☼	63	31 - 149
Chlorobenzene	ND		0.0463	0.02476		mg/Kg	☼	54	25 - 152
Chloroethane	ND		0.0463	0.02576		mg/Kg	☼	56	10 - 151
Chloroform	ND		0.0463	0.03038		mg/Kg	☼	66	34 - 160
Chloromethane	ND		0.0463	0.03406		mg/Kg	☼	74	10 - 156
cis-1,2-Dichloroethene	ND		0.0463	0.02748		mg/Kg	☼	59	36 - 139
cis-1,3-Dichloropropene	ND		0.0463	0.03208		mg/Kg	☼	69	15 - 166
Cyclohexane	0.00992		0.0463	0.03174		mg/Kg	☼	47	32 - 158
Dibromochloromethane	ND		0.0463	0.02742		mg/Kg	☼	59	14 - 146
Dichlorodifluoromethane	ND		0.0463	0.03059		mg/Kg	☼	66	10 - 143
Ethylbenzene	ND		0.0463	0.02517		mg/Kg	☼	54	23 - 161
Isopropylbenzene	ND		0.0463	0.02355		mg/Kg	☼	51	23 - 181
Methyl acetate	ND		0.231	0.02306		mg/Kg	☼	10	10 - 200
Methyl tert-butyl ether	ND		0.0463	0.03876		mg/Kg	☼	84	28 - 141
Methylcyclohexane	0.0188		0.0463	0.03696		mg/Kg	☼	39	29 - 167
Methylene Chloride	ND		0.0463	0.03456		mg/Kg	☼	67	24 - 182
Styrene	ND		0.0463	ND	F1	mg/Kg	☼	3	10 - 165
Tetrachloroethene	ND		0.0463	0.02376		mg/Kg	☼	51	33 - 161
Toluene	0.00745		0.0463	0.03317		mg/Kg	☼	56	30 - 155
trans-1,2-Dichloroethene	ND		0.0463	0.02665		mg/Kg	☼	58	39 - 140
trans-1,3-Dichloropropene	ND		0.0463	0.02966		mg/Kg	☼	64	10 - 157
Trichloroethene	ND		0.0463	0.02622		mg/Kg	☼	57	27 - 153
Trichlorofluoromethane	ND		0.0463	0.02710		mg/Kg	☼	59	25 - 140
Vinyl chloride	ND		0.0463	0.02818		mg/Kg	☼	61	20 - 141
m-Xylene & p-Xylene	0.00605		0.0463	0.03053		mg/Kg	☼	53	27 - 162
o-Xylene	ND		0.0463	0.02745		mg/Kg	☼	56	18 - 166

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 490-61422-12 MSD
Matrix: Soil
Analysis Batch: 190813

Client Sample ID: BRG-14
Prep Type: Total/NA
Prep Batch: 190675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		0.0626	0.06501	F2	mg/Kg	☼	104	35 - 149	76	50
1,1,2,2-Tetrachloroethane	ND		0.0626	0.05235		mg/Kg	☼	84	10 - 162	39	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0626	0.06540	F2	mg/Kg	☼	104	42 - 147	78	50
1,1,2-Trichloroethane	ND		0.0626	0.05623		mg/Kg	☼	90	19 - 157	44	50
1,1-Dichloroethane	ND		0.0626	0.06147	F2	mg/Kg	☼	98	42 - 136	70	50
1,1-Dichloroethene	ND		0.0626	0.05882	F2	mg/Kg	☼	94	41 - 143	76	50
1,2,4-Trichlorobenzene	ND		0.0626	0.02228		mg/Kg	☼	36	10 - 167	28	50

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

Lab Sample ID: 490-61422-12 MSD | **Client Sample ID: BRG-14**
Matrix: Soil | **Prep Type: Total/NA**
Analysis Batch: 190813 | **Prep Batch: 190675**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		0.0626	0.04175		mg/Kg	☼	67	10 - 147	23	50
1,2-Dibromoethane	ND		0.0626	0.06049		mg/Kg	☼	97	18 - 156	40	50
1,2-Dichlorobenzene	ND		0.0626	0.03599		mg/Kg	☼	57	10 - 160	45	50
1,2-Dichloroethane	ND		0.0626	0.05728		mg/Kg	☼	91	28 - 138	48	50
1,2-Dichloropropane	ND		0.0626	0.05855	F2	mg/Kg	☼	93	20 - 146	57	50
1,3-Dichlorobenzene	ND		0.0626	0.03605	F2	mg/Kg	☼	58	10 - 162	52	50
1,4-Dichlorobenzene	ND		0.0626	0.03343	F2	mg/Kg	☼	53	11 - 159	53	50
1,4-Dioxane	ND		1.25	1.351		mg/Kg	☼	108	15 - 200	34	50
2-Butanone (MEK)	ND		0.313	0.3207		mg/Kg	☼	102	18 - 153	33	50
2-Hexanone	ND		0.313	0.2691		mg/Kg	☼	86	10 - 169	28	50
4-Methyl-2-pentanone (MIBK)	ND		0.313	0.2779		mg/Kg	☼	89	10 - 168	24	50
Acetone	ND		0.313	0.3484		mg/Kg	☼	111	19 - 175	28	50
Benzene	0.00331		0.0626	0.06329	F2	mg/Kg	☼	96	31 - 143	67	50
Bromodichloromethane	ND		0.0626	0.06148	F2	mg/Kg	☼	98	19 - 148	58	50
Bromoform	ND		0.0626	0.03876		mg/Kg	☼	62	10 - 165	42	50
Bromomethane	ND		0.0626	0.05522	F2	mg/Kg	☼	88	10 - 164	84	50
Carbon disulfide	ND		0.0626	0.06192	F2	mg/Kg	☼	99	32 - 144	80	50
Carbon tetrachloride	ND		0.0626	0.06855	F2	mg/Kg	☼	109	31 - 149	81	50
Chlorobenzene	ND		0.0626	0.04702	F2	mg/Kg	☼	75	25 - 152	62	50
Chloroethane	ND		0.0626	0.05646	F2	mg/Kg	☼	90	10 - 151	75	50
Chloroform	ND		0.0626	0.05860	F2	mg/Kg	☼	94	34 - 160	63	49
Chloromethane	ND		0.0626	0.07339	F2	mg/Kg	☼	117	10 - 156	73	50
cis-1,2-Dichloroethene	ND		0.0626	0.05402	F2	mg/Kg	☼	86	36 - 139	65	50
cis-1,3-Dichloropropene	ND		0.0626	0.05331		mg/Kg	☼	85	15 - 166	50	50
Cyclohexane	0.00992		0.0626	0.07285		mg/Kg	☼	100	32 - 158	79	550
Dibromochloromethane	ND		0.0626	0.04529		mg/Kg	☼	72	14 - 146	49	50
Dichlorodifluoromethane	ND		0.0626	0.06850	F2	mg/Kg	☼	109	10 - 143	77	50
Ethylbenzene	ND		0.0626	0.05202	F2	mg/Kg	☼	83	23 - 161	70	50
Isopropylbenzene	ND		0.0626	0.05070	F2	mg/Kg	☼	81	23 - 181	73	50
Methyl acetate	ND		0.313	0.03643		mg/Kg	☼	12	10 - 200	45	50
Methyl tert-butyl ether	ND		0.0626	0.06301		mg/Kg	☼	101	28 - 141	48	50
Methylcyclohexane	0.0188		0.0626	0.08379	F2	mg/Kg	☼	104	29 - 167	78	50
Methylene Chloride	ND		0.0626	0.06712	F2	mg/Kg	☼	102	24 - 182	64	50
Styrene	ND		0.0626	0.003518	F1 F2	mg/Kg	☼	6	10 - 165	75	50
Tetrachloroethene	ND		0.0626	0.05379	F2	mg/Kg	☼	86	33 - 161	77	50
Toluene	0.00745		0.0626	0.06504	F2	mg/Kg	☼	92	30 - 155	65	50
trans-1,2-Dichloroethene	ND		0.0626	0.06076	F2	mg/Kg	☼	97	39 - 140	78	50
trans-1,3-Dichloropropene	ND		0.0626	0.04726		mg/Kg	☼	75	10 - 157	46	50
Trichloroethene	ND		0.0626	0.05713	F2	mg/Kg	☼	91	27 - 153	74	50
Trichlorofluoromethane	ND		0.0626	0.06181	F2	mg/Kg	☼	99	25 - 140	78	50
Vinyl chloride	ND		0.0626	0.06194	F2	mg/Kg	☼	99	20 - 141	75	50
m-Xylene & p-Xylene	0.00605		0.0626	0.05535	F2	mg/Kg	☼	79	27 - 162	58	50
o-Xylene	ND		0.0626	0.05186	F2	mg/Kg	☼	80	18 - 166	62	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

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

Lab Sample ID: 490-61422-12 MSD
Matrix: Soil
Analysis Batch: 190813

Client Sample ID: BRG-14
Prep Type: Total/NA
Prep Batch: 190675

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 490-190813/10
Matrix: Solid
Analysis Batch: 190813

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		0.00200		mg/Kg			09/16/14 14:47	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg			09/16/14 14:47	1
1,1-Dichloroethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,1-Dichloroethene	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg			09/16/14 14:47	1
1,2-Dibromoethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,2-Dichloropropane	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg			09/16/14 14:47	1
1,4-Dioxane	ND		0.200		mg/Kg			09/16/14 14:47	1
2-Butanone (MEK)	ND		0.0500		mg/Kg			09/16/14 14:47	1
2-Hexanone	ND		0.0500		mg/Kg			09/16/14 14:47	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg			09/16/14 14:47	1
Acetone	ND		0.0500		mg/Kg			09/16/14 14:47	1
Benzene	ND		0.00200		mg/Kg			09/16/14 14:47	1
Bromodichloromethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
Bromoform	ND		0.00200		mg/Kg			09/16/14 14:47	1
Bromomethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
Carbon disulfide	ND		0.00500		mg/Kg			09/16/14 14:47	1
Carbon tetrachloride	ND		0.00200		mg/Kg			09/16/14 14:47	1
Chlorobenzene	ND		0.00200		mg/Kg			09/16/14 14:47	1
Chloroethane	ND		0.00500		mg/Kg			09/16/14 14:47	1
Chloroform	ND		0.00200		mg/Kg			09/16/14 14:47	1
Chloromethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg			09/16/14 14:47	1
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg			09/16/14 14:47	1
Cyclohexane	ND		0.0100		mg/Kg			09/16/14 14:47	1
Dibromochloromethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
Dichlorodifluoromethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
Ethylbenzene	ND		0.00200		mg/Kg			09/16/14 14:47	1
Isopropylbenzene	ND		0.00200		mg/Kg			09/16/14 14:47	1
Methyl acetate	ND		0.0100		mg/Kg			09/16/14 14:47	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/16/14 14:47	1
Methylcyclohexane	ND		0.0100		mg/Kg			09/16/14 14:47	1
Methylene Chloride	ND		0.0100		mg/Kg			09/16/14 14:47	1
Styrene	ND		0.00200		mg/Kg			09/16/14 14:47	1

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

Lab Sample ID: MB 490-190813/10
Matrix: Solid
Analysis Batch: 190813

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.00200		mg/Kg			09/16/14 14:47	1
Toluene	ND		0.00200		mg/Kg			09/16/14 14:47	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg			09/16/14 14:47	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg			09/16/14 14:47	1
Trichloroethene	ND		0.00200		mg/Kg			09/16/14 14:47	1
Trichlorofluoromethane	ND		0.00200		mg/Kg			09/16/14 14:47	1
Vinyl chloride	ND		0.00200		mg/Kg			09/16/14 14:47	1
m-Xylene & p-Xylene	ND		0.00300		mg/Kg			09/16/14 14:47	1
o-Xylene	ND		0.00200		mg/Kg			09/16/14 14:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*09/16/14 14:47*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*09/16/14 14:47*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*09/16/14 14:47*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/16/14 14:47*	*1*

Lab Sample ID: MB 490-190813/9
Matrix: Solid
Analysis Batch: 190813

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		0.100		mg/Kg			09/16/14 14:16	1
1,1,2,2-Tetrachloroethane	ND		0.100		mg/Kg			09/16/14 14:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.100		mg/Kg			09/16/14 14:16	1
1,1,2-Trichloroethane	ND		0.250		mg/Kg			09/16/14 14:16	1
1,1-Dichloroethane	ND		0.100		mg/Kg			09/16/14 14:16	1
1,1-Dichloroethene	ND		0.100		mg/Kg			09/16/14 14:16	1
1,2,4-Trichlorobenzene	ND		0.100		mg/Kg			09/16/14 14:16	1
1,2-Dibromo-3-Chloropropane	ND		0.250		mg/Kg			09/16/14 14:16	1
1,2-Dibromoethane	ND		0.100		mg/Kg			09/16/14 14:16	1
1,2-Dichlorobenzene	ND		0.100		mg/Kg			09/16/14 14:16	1
1,2-Dichloroethane	ND		0.100		mg/Kg			09/16/14 14:16	1
1,2-Dichloropropane	ND		0.100		mg/Kg			09/16/14 14:16	1
1,3-Dichlorobenzene	ND		0.100		mg/Kg			09/16/14 14:16	1
1,4-Dichlorobenzene	ND		0.100		mg/Kg			09/16/14 14:16	1
1,4-Dioxane	ND		10.0		mg/Kg			09/16/14 14:16	1
2-Butanone (MEK)	ND		2.50		mg/Kg			09/16/14 14:16	1
2-Hexanone	ND		2.50		mg/Kg			09/16/14 14:16	1
4-Methyl-2-pentanone (MIBK)	ND		2.50		mg/Kg			09/16/14 14:16	1
Acetone	ND		2.50		mg/Kg			09/16/14 14:16	1
Benzene	ND		0.100		mg/Kg			09/16/14 14:16	1
Bromodichloromethane	ND		0.100		mg/Kg			09/16/14 14:16	1
Bromoform	ND		0.100		mg/Kg			09/16/14 14:16	1
Bromomethane	ND		0.100		mg/Kg			09/16/14 14:16	1
Carbon disulfide	ND		0.250		mg/Kg			09/16/14 14:16	1
Carbon tetrachloride	ND		0.100		mg/Kg			09/16/14 14:16	1
Chlorobenzene	ND		0.100		mg/Kg			09/16/14 14:16	1
Chloroethane	ND		0.250		mg/Kg			09/16/14 14:16	1

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

Lab Sample ID: MB 490-190813/9
Matrix: Solid
Analysis Batch: 190813

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.100		mg/Kg			09/16/14 14:16	1
Chloromethane	ND		0.100		mg/Kg			09/16/14 14:16	1
cis-1,2-Dichloroethene	ND		0.100		mg/Kg			09/16/14 14:16	1
cis-1,3-Dichloropropene	ND		0.100		mg/Kg			09/16/14 14:16	1
Cyclohexane	ND		0.500		mg/Kg			09/16/14 14:16	1
Dibromochloromethane	ND		0.100		mg/Kg			09/16/14 14:16	1
Dichlorodifluoromethane	ND		0.100		mg/Kg			09/16/14 14:16	1
Ethylbenzene	ND		0.100		mg/Kg			09/16/14 14:16	1
Isopropylbenzene	ND		0.100		mg/Kg			09/16/14 14:16	1
Methyl acetate	ND		0.500		mg/Kg			09/16/14 14:16	1
Methyl tert-butyl ether	ND		0.100		mg/Kg			09/16/14 14:16	1
Methylcyclohexane	ND		0.500		mg/Kg			09/16/14 14:16	1
Methylene Chloride	ND		0.500		mg/Kg			09/16/14 14:16	1
Styrene	ND		0.100		mg/Kg			09/16/14 14:16	1
Tetrachloroethene	ND		0.100		mg/Kg			09/16/14 14:16	1
Toluene	ND		0.100		mg/Kg			09/16/14 14:16	1
trans-1,2-Dichloroethene	ND		0.100		mg/Kg			09/16/14 14:16	1
trans-1,3-Dichloropropene	ND		0.100		mg/Kg			09/16/14 14:16	1
Trichloroethene	ND		0.100		mg/Kg			09/16/14 14:16	1
Trichlorofluoromethane	ND		0.100		mg/Kg			09/16/14 14:16	1
Vinyl chloride	ND		0.100		mg/Kg			09/16/14 14:16	1
m-Xylene & p-Xylene	ND		0.150		mg/Kg			09/16/14 14:16	1
o-Xylene	ND		0.100		mg/Kg			09/16/14 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*09/16/14 14:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/16/14 14:16*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*09/16/14 14:16*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/16/14 14:16*	*1*

Lab Sample ID: LCS 490-190813/4
Matrix: Solid
Analysis Batch: 190813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.0500	0.05477		mg/Kg		110	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.05219		mg/Kg		104	66 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05077		mg/Kg		102	67 - 136
1,1,2-Trichloroethane	0.0500	0.05283		mg/Kg		106	78 - 128
1,1-Dichloroethane	0.0500	0.05083		mg/Kg		102	75 - 124
1,1-Dichloroethene	0.0500	0.05001		mg/Kg		100	75 - 131
1,2,4-Trichlorobenzene	0.0500	0.05144		mg/Kg		103	62 - 150
1,2-Dibromo-3-Chloropropane	0.0500	0.05428		mg/Kg		109	49 - 142
1,2-Dibromoethane	0.0500	0.06300		mg/Kg		126	80 - 135
1,2-Dichlorobenzene	0.0500	0.04962		mg/Kg		99	80 - 134
1,2-Dichloroethane	0.0500	0.05357		mg/Kg		107	65 - 134
1,2-Dichloropropane	0.0500	0.05383		mg/Kg		108	69 - 120

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

Lab Sample ID: LCS 490-190813/4
Matrix: Solid
Analysis Batch: 190813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	0.0500	0.04931		mg/Kg		99	79 - 137
1,4-Dichlorobenzene	0.0500	0.04834		mg/Kg		97	77 - 139
1,4-Dioxane	1.00	1.180		mg/Kg		118	37 - 150
2-Butanone (MEK)	0.250	0.2960		mg/Kg		118	61 - 132
2-Hexanone	0.250	0.2759		mg/Kg		110	57 - 148
4-Methyl-2-pentanone (MIBK)	0.250	0.2758		mg/Kg		110	59 - 138
Acetone	0.250	0.2963		mg/Kg		119	51 - 149
Benzene	0.0500	0.05247		mg/Kg		105	75 - 127
Bromodichloromethane	0.0500	0.06191		mg/Kg		124	68 - 135
Bromoform	0.0500	0.04828		mg/Kg		97	36 - 150
Bromomethane	0.0500	0.04252		mg/Kg		85	43 - 142
Carbon disulfide	0.0500	0.05117		mg/Kg		102	74 - 135
Carbon tetrachloride	0.0500	0.05870		mg/Kg		117	70 - 141
Chlorobenzene	0.0500	0.04953		mg/Kg		99	84 - 125
Chloroethane	0.0500	0.04447		mg/Kg		89	53 - 144
Chloroform	0.0500	0.04766		mg/Kg		95	76 - 130
Chloromethane	0.0500	0.04427		mg/Kg		89	23 - 150
cis-1,2-Dichloroethene	0.0500	0.05182		mg/Kg		104	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05801		mg/Kg		116	73 - 148
Cyclohexane	0.0500	0.05085		mg/Kg		102	70 - 133
Dibromochloromethane	0.0500	0.05108		mg/Kg		102	66 - 134
Dichlorodifluoromethane	0.0500	0.04957		mg/Kg		99	12 - 144
Ethylbenzene	0.0500	0.05049		mg/Kg		101	80 - 134
Isopropylbenzene	0.0500	0.05113		mg/Kg		102	80 - 150
Methyl acetate	0.250	0.2843	E	mg/Kg		114	11 - 170
Methyl tert-butyl ether	0.0500	0.05673		mg/Kg		113	70 - 136
Methylcyclohexane	0.0500	0.05228		mg/Kg		105	69 - 140
Methylene Chloride	0.0500	0.05141		mg/Kg		103	68 - 144
Styrene	0.0500	0.05057		mg/Kg		101	82 - 137
Tetrachloroethene	0.0500	0.05098		mg/Kg		102	78 - 140
Toluene	0.0500	0.05090		mg/Kg		102	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05083		mg/Kg		102	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05624		mg/Kg		112	62 - 139
Trichloroethene	0.0500	0.05252		mg/Kg		105	77 - 127
Trichlorofluoromethane	0.0500	0.04841		mg/Kg		97	50 - 140
Vinyl chloride	0.0500	0.05026		mg/Kg		101	47 - 136
m-Xylene & p-Xylene	0.0500	0.04846		mg/Kg		97	80 - 137
o-Xylene	0.0500	0.05042		mg/Kg		101	80 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

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

Lab Sample ID: LCS 490-190813/6
Matrix: Solid
Analysis Batch: 190813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.50	2.657		mg/Kg		106	72 - 140
1,1,2,2-Tetrachloroethane	2.50	2.458		mg/Kg		98	66 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	2.445		mg/Kg		98	67 - 136
1,1,2-Trichloroethane	2.50	2.509		mg/Kg		100	78 - 128
1,1-Dichloroethane	2.50	2.437		mg/Kg		97	75 - 124
1,1-Dichloroethene	2.50	2.444		mg/Kg		98	75 - 131
1,2,4-Trichlorobenzene	2.50	2.444		mg/Kg		98	62 - 150
1,2-Dibromo-3-Chloropropane	2.50	2.416		mg/Kg		97	49 - 142
1,2-Dibromoethane	2.50	2.945		mg/Kg		118	80 - 135
1,2-Dichlorobenzene	2.50	2.387		mg/Kg		95	80 - 134
1,2-Dichloroethane	2.50	2.536		mg/Kg		101	65 - 134
1,2-Dichloropropane	2.50	2.502		mg/Kg		100	69 - 120
1,3-Dichlorobenzene	2.50	2.375		mg/Kg		95	79 - 137
1,4-Dichlorobenzene	2.50	2.320		mg/Kg		93	77 - 139
1,4-Dioxane	50.0	54.37		mg/Kg		109	37 - 150
2-Butanone (MEK)	12.5	13.39		mg/Kg		107	61 - 132
2-Hexanone	12.5	12.33		mg/Kg		99	57 - 148
4-Methyl-2-pentanone (MIBK)	12.5	12.23		mg/Kg		98	59 - 138
Acetone	12.5	13.14		mg/Kg		105	51 - 149
Benzene	2.50	2.511		mg/Kg		100	75 - 127
Bromodichloromethane	2.50	2.957		mg/Kg		118	68 - 135
Bromoform	2.50	2.303		mg/Kg		92	36 - 150
Bromomethane	2.50	2.071		mg/Kg		83	43 - 142
Carbon disulfide	2.50	2.518		mg/Kg		101	74 - 135
Carbon tetrachloride	2.50	2.848		mg/Kg		114	70 - 141
Chlorobenzene	2.50	2.385		mg/Kg		95	84 - 125
Chloroethane	2.50	2.143		mg/Kg		86	53 - 144
Chloroform	2.50	2.304		mg/Kg		92	76 - 130
Chloromethane	2.50	2.176		mg/Kg		87	23 - 150
cis-1,2-Dichloroethene	2.50	2.442		mg/Kg		98	75 - 125
cis-1,3-Dichloropropene	2.50	2.723		mg/Kg		109	73 - 148
Cyclohexane	2.50	2.435		mg/Kg		97	70 - 133
Dibromochloromethane	2.50	2.416		mg/Kg		97	66 - 134
Dichlorodifluoromethane	2.50	2.366		mg/Kg		95	12 - 144
Ethylbenzene	2.50	2.426		mg/Kg		97	80 - 134
Isopropylbenzene	2.50	2.400		mg/Kg		96	80 - 150
Methyl acetate	12.5	10.71		mg/Kg		86	11 - 170
Methyl tert-butyl ether	2.50	2.684		mg/Kg		107	70 - 136
Methylcyclohexane	2.50	2.453		mg/Kg		98	69 - 140
Methylene Chloride	2.50	2.523		mg/Kg		101	68 - 144
Styrene	2.50	2.435		mg/Kg		97	82 - 137
Tetrachloroethene	2.50	2.426		mg/Kg		97	78 - 140
Toluene	2.50	2.432		mg/Kg		97	80 - 132
trans-1,2-Dichloroethene	2.50	2.446		mg/Kg		98	76 - 128
trans-1,3-Dichloropropene	2.50	2.647		mg/Kg		106	62 - 139
Trichloroethene	2.50	2.528		mg/Kg		101	77 - 127
Trichlorofluoromethane	2.50	2.369		mg/Kg		95	50 - 140

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

Lab Sample ID: LCS 490-190813/6
Matrix: Solid
Analysis Batch: 190813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	2.50	2.427		mg/Kg		97	47 - 136
m-Xylene & p-Xylene	2.50	2.309		mg/Kg		92	80 - 137
o-Xylene	2.50	2.429		mg/Kg		97	80 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-190813/5
Matrix: Solid
Analysis Batch: 190813

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.05313		mg/Kg		106	72 - 140	3	50
1,1,2,2-Tetrachloroethane	0.0500	0.04989		mg/Kg		100	66 - 134	4	50
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.04938		mg/Kg		99	67 - 136	3	50
1,1,2-Trichloroethane	0.0500	0.05125		mg/Kg		103	78 - 128	3	50
1,1-Dichloroethane	0.0500	0.04886		mg/Kg		98	75 - 124	4	50
1,1-Dichloroethene	0.0500	0.04876		mg/Kg		98	75 - 131	3	50
1,2,4-Trichlorobenzene	0.0500	0.04935		mg/Kg		99	62 - 150	4	50
1,2-Dibromo-3-Chloropropane	0.0500	0.05102		mg/Kg		102	49 - 142	6	50
1,2-Dibromoethane	0.0500	0.06021		mg/Kg		120	80 - 135	5	50
1,2-Dichlorobenzene	0.0500	0.04835		mg/Kg		97	80 - 134	3	50
1,2-Dichloroethane	0.0500	0.05154		mg/Kg		103	65 - 134	4	50
1,2-Dichloropropane	0.0500	0.05005		mg/Kg		100	69 - 120	7	50
1,3-Dichlorobenzene	0.0500	0.04829		mg/Kg		97	79 - 137	2	50
1,4-Dichlorobenzene	0.0500	0.04772		mg/Kg		95	77 - 139	1	50
1,4-Dioxane	1.00	1.011		mg/Kg		101	37 - 150	15	50
2-Butanone (MEK)	0.250	0.2689		mg/Kg		108	61 - 132	10	50
2-Hexanone	0.250	0.2549		mg/Kg		102	57 - 148	8	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2492		mg/Kg		100	59 - 138	10	50
Acetone	0.250	0.2722		mg/Kg		109	51 - 149	8	50
Benzene	0.0500	0.05110		mg/Kg		102	75 - 127	3	50
Bromodichloromethane	0.0500	0.05941		mg/Kg		119	68 - 135	4	50
Bromoform	0.0500	0.04649		mg/Kg		93	36 - 150	4	50
Bromomethane	0.0500	0.04281		mg/Kg		86	43 - 142	1	50
Carbon disulfide	0.0500	0.05144		mg/Kg		103	74 - 135	1	50
Carbon tetrachloride	0.0500	0.05741		mg/Kg		115	70 - 141	2	50
Chlorobenzene	0.0500	0.04835		mg/Kg		97	84 - 125	2	50
Chloroethane	0.0500	0.04392		mg/Kg		88	53 - 144	1	50
Chloroform	0.0500	0.04897		mg/Kg		98	76 - 130	3	49
Chloromethane	0.0500	0.04439		mg/Kg		89	23 - 150	0	50
cis-1,2-Dichloroethene	0.0500	0.05001		mg/Kg		100	75 - 125	4	50
cis-1,3-Dichloropropene	0.0500	0.05472		mg/Kg		109	73 - 148	6	50
Cyclohexane	0.0500	0.04915		mg/Kg		98	70 - 133	3	50

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

Lab Sample ID: LCSD 490-190813/5
Matrix: Solid
Analysis Batch: 190813

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane			0.0500	0.04900		mg/Kg		98	66 - 134	4	50
Dichlorodifluoromethane			0.0500	0.04830		mg/Kg		97	12 - 144	3	50
Ethylbenzene			0.0500	0.04940		mg/Kg		99	80 - 134	2	50
Isopropylbenzene			0.0500	0.04950		mg/Kg		99	80 - 150	3	50
Methyl acetate			0.250	0.2391		mg/Kg		96	11 - 170	17	50
Methyl tert-butyl ether			0.0500	0.05432		mg/Kg		109	70 - 136	4	50
Methylcyclohexane			0.0500	0.04920		mg/Kg		98	69 - 140	6	50
Methylene Chloride			0.0500	0.05047		mg/Kg		101	68 - 144	2	50
Styrene			0.0500	0.04930		mg/Kg		99	82 - 137	3	50
Tetrachloroethene			0.0500	0.04945		mg/Kg		99	78 - 140	3	50
Toluene			0.0500	0.04927		mg/Kg		99	80 - 132	3	50
trans-1,2-Dichloroethene			0.0500	0.04920		mg/Kg		98	76 - 128	3	50
trans-1,3-Dichloropropene			0.0500	0.05319		mg/Kg		106	62 - 139	6	50
Trichloroethene			0.0500	0.05099		mg/Kg		102	77 - 127	3	50
Trichlorofluoromethane			0.0500	0.04743		mg/Kg		95	50 - 140	2	50
Vinyl chloride			0.0500	0.04968		mg/Kg		99	47 - 136	1	50
m-Xylene & p-Xylene			0.0500	0.04660		mg/Kg		93	80 - 137	4	50
o-Xylene			0.0500	0.04899		mg/Kg		98	80 - 141	3	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 490-190813/7
Matrix: Solid
Analysis Batch: 190813

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			2.50	2.708		mg/Kg		108	72 - 140	2	50
1,1,2,2-Tetrachloroethane			2.50	2.649		mg/Kg		106	66 - 134	7	50
1,1,2-Trichloro-1,2,2-trifluoroetha ne			2.50	2.470		mg/Kg		99	67 - 136	1	50
1,1,2-Trichloroethane			2.50	2.519		mg/Kg		101	78 - 128	0	50
1,1-Dichloroethane			2.50	2.501		mg/Kg		100	75 - 124	3	50
1,1-Dichloroethene			2.50	2.473		mg/Kg		99	75 - 131	1	50
1,2,4-Trichlorobenzene			2.50	2.469		mg/Kg		99	62 - 150	1	50
1,2-Dibromo-3-Chloropropane			2.50	2.603		mg/Kg		104	49 - 142	7	50
1,2-Dibromoethane			2.50	3.033		mg/Kg		121	80 - 135	3	50
1,2-Dichlorobenzene			2.50	2.439		mg/Kg		98	80 - 134	2	50
1,2-Dichloroethane			2.50	2.592		mg/Kg		104	65 - 134	2	50
1,2-Dichloropropane			2.50	2.565		mg/Kg		103	69 - 120	3	50
1,3-Dichlorobenzene			2.50	2.394		mg/Kg		96	79 - 137	1	50
1,4-Dichlorobenzene			2.50	2.376		mg/Kg		95	77 - 139	2	50
1,4-Dioxane			50.0	54.84		mg/Kg		110	37 - 150	1	50
2-Butanone (MEK)			12.5	13.47		mg/Kg		108	61 - 132	1	50
2-Hexanone			12.5	12.72		mg/Kg		102	57 - 148	3	50

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

Lab Sample ID: LCSD 490-190813/7
Matrix: Solid
Analysis Batch: 190813

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)			12.5	12.46		mg/Kg		100	59 - 138	2	50
Acetone			12.5	13.81		mg/Kg		110	51 - 149	5	50
Benzene			2.50	2.562		mg/Kg		102	75 - 127	2	50
Bromodichloromethane			2.50	3.043		mg/Kg		122	68 - 135	3	50
Bromoform			2.50	2.373		mg/Kg		95	36 - 150	3	50
Bromomethane			2.50	2.132		mg/Kg		85	43 - 142	3	50
Carbon disulfide			2.50	2.523		mg/Kg		101	74 - 135	0	50
Carbon tetrachloride			2.50	2.887		mg/Kg		115	70 - 141	1	50
Chlorobenzene			2.50	2.376		mg/Kg		95	84 - 125	0	50
Chloroethane			2.50	2.054		mg/Kg		82	53 - 144	4	50
Chloroform			2.50	2.482		mg/Kg		99	76 - 130	7	49
Chloromethane			2.50	2.212		mg/Kg		88	23 - 150	2	50
cis-1,2-Dichloroethene			2.50	2.474		mg/Kg		99	75 - 125	1	50
cis-1,3-Dichloropropene			2.50	2.712		mg/Kg		108	73 - 148	0	50
Cyclohexane			2.50	2.453		mg/Kg		98	70 - 133	1	50
Dibromochloromethane			2.50	2.438		mg/Kg		98	66 - 134	1	50
Dichlorodifluoromethane			2.50	2.377		mg/Kg		95	12 - 144	0	50
Ethylbenzene			2.50	2.432		mg/Kg		97	80 - 134	0	50
Isopropylbenzene			2.50	2.422		mg/Kg		97	80 - 150	1	50
Methyl acetate			12.5	10.42		mg/Kg		83	11 - 170	3	50
Methyl tert-butyl ether			2.50	2.766		mg/Kg		111	70 - 136	3	50
Methylcyclohexane			2.50	2.460		mg/Kg		98	69 - 140	0	50
Methylene Chloride			2.50	2.548		mg/Kg		102	68 - 144	1	50
Styrene			2.50	2.412		mg/Kg		96	82 - 137	1	50
Tetrachloroethene			2.50	2.414		mg/Kg		97	78 - 140	0	50
Toluene			2.50	2.418		mg/Kg		97	80 - 132	1	50
trans-1,2-Dichloroethene			2.50	2.476		mg/Kg		99	76 - 128	1	50
trans-1,3-Dichloropropene			2.50	2.643		mg/Kg		106	62 - 139	0	50
Trichloroethene			2.50	2.548		mg/Kg		102	77 - 127	1	50
Trichlorofluoromethane			2.50	2.402		mg/Kg		96	50 - 140	1	50
Vinyl chloride			2.50	2.446		mg/Kg		98	47 - 136	1	50
m-Xylene & p-Xylene			2.50	2.268		mg/Kg		91	80 - 137	2	50
o-Xylene			2.50	2.422		mg/Kg		97	80 - 141	0	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 490-190624/1-A
Matrix: Solid
Analysis Batch: 190698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1

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

Lab Sample ID: MB 490-190624/1-A
Matrix: Solid
Analysis Batch: 190698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis(1-chloropropane)	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
2,4-Dinitrotoluene	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
2,6-Dinitrotoluene	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
2-Chloronaphthalene	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
2-Methylnaphthalene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
2-Nitroaniline	ND		0.833		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
3,3'-Dichlorobenzidine	ND		0.667		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
3-Nitroaniline	ND		0.833		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
4-Bromophenyl phenyl ether	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
4-Chloroaniline	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
4-Chlorophenyl phenyl ether	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
4-Nitroaniline	ND		0.833		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Acenaphthene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Acenaphthylene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Acetophenone	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Anthracene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Atrazine	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Benzaldehyde	ND		1.67		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Benzo[a]pyrene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Benzo[a]anthracene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Benzo[b]fluoranthene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Benzo[g,h,i]perylene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Benzo[k]fluoranthene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Bis(2-chloroethoxy)methane	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Bis(2-chloroethyl)ether	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Bis(2-ethylhexyl) phthalate	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Butyl benzyl phthalate	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Caprolactam	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Carbazole	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Chrysene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Dibenz(a,h)anthracene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Dibenzofuran	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Diethyl phthalate	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Dimethyl phthalate	ND		1.67		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Di-n-butyl phthalate	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Di-n-octyl phthalate	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Fluoranthene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Fluorene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Hexachlorobenzene	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Hexachlorobutadiene	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Hexachlorocyclopentadiene	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Hexachloroethane	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Indeno[1,2,3-cd]pyrene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Isophorone	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Naphthalene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Nitrobenzene	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
N-Nitrosodi-n-propylamine	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1

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

Lab Sample ID: MB 490-190624/1-A
Matrix: Solid
Analysis Batch: 190698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.333		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Phenanthrene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1
Pyrene	ND		0.0670		mg/Kg		09/15/14 10:54	09/15/14 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*10 - 120*	*09/15/14 10:54*	*09/15/14 19:31*	*1*
2-Fluorobiphenyl (Surr)	*65*		*29 - 120*	*09/15/14 10:54*	*09/15/14 19:31*	*1*
2-Fluorophenol (Surr)	*65*		*10 - 120*	*09/15/14 10:54*	*09/15/14 19:31*	*1*
Nitrobenzene-d5 (Surr)	*66*		*27 - 120*	*09/15/14 10:54*	*09/15/14 19:31*	*1*
Phenol-d5 (Surr)	*66*		*10 - 120*	*09/15/14 10:54*	*09/15/14 19:31*	*1*
Terphenyl-d14 (Surr)	*76*		*13 - 120*	*09/15/14 10:54*	*09/15/14 19:31*	*1*

Lab Sample ID: LCS 490-190624/2-A
Matrix: Solid
Analysis Batch: 190698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	1.67	1.275		mg/Kg		76	15 - 120
2,2'-oxybis(1-chloropropane)	1.67	1.170		mg/Kg		70	32 - 120
2,4-Dinitrotoluene	1.67	1.321		mg/Kg		79	43 - 120
2,6-Dinitrotoluene	1.67	1.509		mg/Kg		91	43 - 120
2-Chloronaphthalene	1.67	1.264		mg/Kg		76	34 - 120
2-Methylnaphthalene	1.67	1.263		mg/Kg		76	28 - 120
2-Nitroaniline	1.67	1.374		mg/Kg		82	40 - 120
3,3'-Dichlorobenzidine	1.67	1.302		mg/Kg		78	39 - 120
3-Nitroaniline	1.67	1.314		mg/Kg		79	42 - 120
4-Bromophenyl phenyl ether	1.67	1.463		mg/Kg		88	40 - 120
4-Chloroaniline	1.67	1.416		mg/Kg		85	35 - 120
4-Chlorophenyl phenyl ether	1.67	1.359		mg/Kg		82	42 - 120
4-Nitroaniline	1.67	1.339		mg/Kg		80	43 - 120
Acenaphthene	1.67	1.377		mg/Kg		83	36 - 120
Acenaphthylene	1.67	1.338		mg/Kg		80	38 - 120
Acetophenone	1.67	1.239		mg/Kg		74	30 - 120
Anthracene	1.67	1.370		mg/Kg		82	46 - 124
Atrazine	1.67	1.763		mg/Kg		106	41 - 120
Benzaldehyde	1.67	ND		mg/Kg		11	10 - 150
Benzo[a]pyrene	1.67	1.433		mg/Kg		86	45 - 120
Benzo[a]anthracene	1.67	1.444		mg/Kg		87	45 - 120
Benzo[b]fluoranthene	1.67	1.482		mg/Kg		89	42 - 120
Benzo[g,h,i]perylene	1.67	1.314		mg/Kg		79	38 - 120
Benzo[k]fluoranthene	1.67	1.413		mg/Kg		85	42 - 120
Bis(2-chloroethoxy)methane	1.67	1.282		mg/Kg		77	32 - 120
Bis(2-chloroethyl)ether	1.67	1.146		mg/Kg		69	31 - 120
Bis(2-ethylhexyl) phthalate	1.67	1.694		mg/Kg		102	43 - 120
Butyl benzyl phthalate	1.67	1.476		mg/Kg		89	43 - 133
Caprolactam	1.67	1.356		mg/Kg		81	18 - 138
Carbazole	1.67	1.345		mg/Kg		81	44 - 120

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

Lab Sample ID: LCS 490-190624/2-A
Matrix: Solid
Analysis Batch: 190698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1.67	1.371		mg/Kg		82	43 - 120
Dibenz(a,h)anthracene	1.67	1.404		mg/Kg		84	32 - 128
Dibenzofuran	1.67	1.321		mg/Kg		79	41 - 120
Diethyl phthalate	1.67	1.428		mg/Kg		86	41 - 122
Dimethyl phthalate	1.67	1.360	J	mg/Kg		82	55 - 120
Di-n-butyl phthalate	1.67	1.523		mg/Kg		91	46 - 127
Di-n-octyl phthalate	1.67	1.655		mg/Kg		99	40 - 130
Fluoranthene	1.67	1.429		mg/Kg		86	46 - 120
Fluorene	1.67	1.418		mg/Kg		85	42 - 120
Hexachlorobenzene	1.67	1.421		mg/Kg		85	44 - 120
Hexachlorobutadiene	1.67	1.255		mg/Kg		75	31 - 120
Hexachlorocyclopentadiene	1.67	1.349		mg/Kg		81	24 - 120
Hexachloroethane	1.67	1.169		mg/Kg		70	33 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.367		mg/Kg		82	41 - 121
Isophorone	1.67	1.388		mg/Kg		83	33 - 120
Naphthalene	1.67	1.288		mg/Kg		77	32 - 120
Nitrobenzene	1.67	1.296		mg/Kg		78	26 - 120
N-Nitrosodi-n-propylamine	1.67	1.365		mg/Kg		82	35 - 120
n-Nitrosodiphenylamine(as diphenylamine)	1.43	1.419		mg/Kg		100	52 - 140
Phenanthrene	1.67	1.349		mg/Kg		81	45 - 120
Pyrene	1.67	1.446		mg/Kg		87	43 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 120*
2-Fluorobiphenyl (Surr)	*74*		*29 - 120*
2-Fluorophenol (Surr)	*72*		*10 - 120*
Nitrobenzene-d5 (Surr)	*73*		*27 - 120*
Phenol-d5 (Surr)	*73*		*10 - 120*
Terphenyl-d14 (Surr)	*91*		*13 - 120*

Lab Sample ID: 460-82584-C-3-B MS
Matrix: Solid
Analysis Batch: 190878

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 190624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	ND		2.61	1.762		mg/Kg	☼	67	10 - 200
2,2'-oxybis(1-chloropropane)	ND		2.61	1.714		mg/Kg	☼	66	20 - 120
2,4-Dinitrotoluene	ND		2.61	1.732		mg/Kg	☼	66	24 - 121
2,6-Dinitrotoluene	ND		2.61	1.783		mg/Kg	☼	68	24 - 120
2-Chloronaphthalene	ND		2.61	1.707		mg/Kg	☼	65	24 - 120
2-Methylnaphthalene	ND		2.61	1.794		mg/Kg	☼	69	13 - 120
2-Nitroaniline	ND		2.61	2.055		mg/Kg	☼	79	31 - 120
3,3'-Dichlorobenzidine	ND		2.61	ND		mg/Kg	☼	36	10 - 120
3-Nitroaniline	ND		2.61	1.618		mg/Kg	☼	62	31 - 120
4-Bromophenyl phenyl ether	ND		2.61	1.942		mg/Kg	☼	74	31 - 120
4-Chloroaniline	ND		2.61	1.877		mg/Kg	☼	72	26 - 120
4-Chlorophenyl phenyl ether	ND		2.61	1.760		mg/Kg	☼	67	26 - 120

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

Lab Sample ID: 460-82584-C-3-B MS
Matrix: Solid
Analysis Batch: 190878

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 190624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	ND		2.61	1.456		mg/Kg	☼	56	28 - 120
Acenaphthene	ND		2.61	1.726		mg/Kg	☼	66	19 - 120
Acenaphthylene	ND		2.61	1.768		mg/Kg	☼	68	25 - 120
Acetophenone	ND		2.61	1.694		mg/Kg	☼	65	10 - 200
Anthracene	0.280		2.61	1.777		mg/Kg	☼	57	28 - 125
Atrazine	ND		2.61	2.659		mg/Kg	☼	102	10 - 200
Benzaldehyde	ND		2.61	ND		mg/Kg	☼	33	10 - 200
Benzo[a]pyrene	1.59		2.61	1.831	F1	mg/Kg	☼	9	15 - 128
Benzo[a]anthracene	1.64		2.61	1.959	F1	mg/Kg	☼	12	23 - 120
Benzo[b]fluoranthene	2.31		2.61	2.113	F1	mg/Kg	☼	-7	12 - 133
Benzo[g,h,i]perylene	1.19		2.61	2.048		mg/Kg	☼	33	22 - 120
Benzo[k]fluoranthene	0.772		2.61	1.603		mg/Kg	☼	32	28 - 120
Bis(2-chloroethoxy)methane	ND		2.61	1.761		mg/Kg	☼	67	24 - 120
Bis(2-chloroethyl)ether	ND		2.61	1.678		mg/Kg	☼	64	22 - 120
Bis(2-ethylhexyl) phthalate	ND		2.61	2.016		mg/Kg	☼	67	26 - 120
Butyl benzyl phthalate	ND		2.61	1.974		mg/Kg	☼	76	24 - 133
Caprolactam	ND		2.61	1.599		mg/Kg	☼	61	10 - 199
Carbazole	ND		2.61	1.778		mg/Kg	☼	68	25 - 123
Chrysene	1.61		2.61	1.742	F1	mg/Kg	☼	5	20 - 120
Dibenz(a,h)anthracene	0.318		2.61	2.064		mg/Kg	☼	67	12 - 128
Dibenzofuran	ND		2.61	1.720		mg/Kg	☼	66	21 - 120
Diethyl phthalate	ND		2.61	1.706		mg/Kg	☼	65	29 - 122
Dimethyl phthalate	ND		2.61	ND		mg/Kg	☼	74	30 - 120
Di-n-butyl phthalate	ND		2.61	1.834		mg/Kg	☼	70	29 - 126
Di-n-octyl phthalate	ND		2.61	1.785		mg/Kg	☼	68	27 - 130
Fluoranthene	2.79		2.61	1.968	F1	mg/Kg	☼	-31	10 - 143
Fluorene	ND		2.61	1.843		mg/Kg	☼	71	20 - 120
Hexachlorobenzene	ND		2.61	1.965		mg/Kg	☼	75	25 - 120
Hexachlorobutadiene	ND		2.61	1.926		mg/Kg	☼	74	10 - 120
Hexachlorocyclopentadiene	ND		2.61	ND	F1	mg/Kg	☼	0	10 - 120
Hexachloroethane	ND		2.61	1.322		mg/Kg	☼	51	10 - 120
Indeno[1,2,3-cd]pyrene	1.14		2.61	2.051		mg/Kg	☼	35	22 - 121
Isophorone	ND		2.61	1.835		mg/Kg	☼	70	24 - 120
Naphthalene	ND		2.61	1.808		mg/Kg	☼	69	10 - 120
Nitrobenzene	ND		2.61	1.971		mg/Kg	☼	75	19 - 120
N-Nitrosodi-n-propylamine	ND		2.61	1.785		mg/Kg	☼	68	24 - 120
n-Nitrosodiphenylamine(as diphenylamine)	ND		2.23	1.734		mg/Kg	☼	78	26 - 150
Phenanthrene	0.993		2.61	1.817		mg/Kg	☼	32	21 - 122
Pyrene	2.34		2.61	1.862	F1	mg/Kg	☼	-18	20 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 120*
2-Fluorobiphenyl (Surr)	*55*		*29 - 120*
2-Fluorophenol (Surr)	*59*		*10 - 120*
Nitrobenzene-d5 (Surr)	*68*		*27 - 120*
Phenol-d5 (Surr)	*58*		*10 - 120*
Terphenyl-d14 (Surr)	*65*		*13 - 120*

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

Lab Sample ID: 460-82584-C-3-C MSD
Matrix: Solid
Analysis Batch: 190878

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 190624

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	ND		2.58	1.625		mg/Kg	☼	63	10 - 200	8	50
2,2'-oxybis(1-chloropropane)	ND		2.58	1.533		mg/Kg	☼	59	20 - 120	11	50
2,4-Dinitrotoluene	ND		2.58	1.575		mg/Kg	☼	61	24 - 121	10	50
2,6-Dinitrotoluene	ND		2.58	1.641		mg/Kg	☼	64	24 - 120	8	50
2-Chloronaphthalene	ND		2.58	1.588		mg/Kg	☼	61	24 - 120	7	50
2-Methylnaphthalene	ND		2.58	1.593		mg/Kg	☼	62	13 - 120	12	50
2-Nitroaniline	ND		2.58	1.844		mg/Kg	☼	71	31 - 120	11	50
3,3'-Dichlorobenzidine	ND		2.58	ND		mg/Kg	☼	34	10 - 120	9	50
3-Nitroaniline	ND		2.58	1.583		mg/Kg	☼	61	31 - 120	2	49
4-Bromophenyl phenyl ether	ND		2.58	1.753		mg/Kg	☼	68	31 - 120	10	37
4-Chloroaniline	ND		2.58	1.717		mg/Kg	☼	66	26 - 120	9	50
4-Chlorophenyl phenyl ether	ND		2.58	1.603		mg/Kg	☼	62	26 - 120	9	50
4-Nitroaniline	ND		2.58	1.463		mg/Kg	☼	57	28 - 120	0	49
Acenaphthene	ND		2.58	1.601		mg/Kg	☼	62	19 - 120	7	50
Acenaphthylene	ND		2.58	1.623		mg/Kg	☼	63	25 - 120	9	50
Acetophenone	ND		2.58	1.487		mg/Kg	☼	58	10 - 200	13	50
Anthracene	0.280		2.58	1.671		mg/Kg	☼	54	28 - 125	6	49
Atrazine	ND		2.58	2.321		mg/Kg	☼	90	10 - 200	14	50
Benzaldehyde	ND		2.58	ND		mg/Kg	☼	53	10 - 200	47	50
Benzo[a]pyrene	1.59		2.58	1.687	F1	mg/Kg	☼	4	15 - 128	8	50
Benzo[a]anthracene	1.64		2.58	1.755	F1	mg/Kg	☼	4	23 - 120	11	50
Benzo[b]fluoranthene	2.31		2.58	1.859	F1	mg/Kg	☼	-17	12 - 133	13	50
Benzo[g,h,i]perylene	1.19		2.58	1.862		mg/Kg	☼	26	22 - 120	9	50
Benzo[k]fluoranthene	0.772		2.58	1.583		mg/Kg	☼	31	28 - 120	1	45
Bis(2-chloroethoxy)methane	ND		2.58	1.560		mg/Kg	☼	60	24 - 120	12	50
Bis(2-chloroethyl)ether	ND		2.58	1.439		mg/Kg	☼	56	22 - 120	15	50
Bis(2-ethylhexyl) phthalate	ND		2.58	1.891		mg/Kg	☼	63	26 - 120	6	50
Butyl benzyl phthalate	ND		2.58	1.815		mg/Kg	☼	70	24 - 133	8	50
Caprolactam	ND		2.58	1.564		mg/Kg	☼	61	10 - 199	2	50
Carbazole	ND		2.58	1.583		mg/Kg	☼	61	25 - 123	12	46
Chrysene	1.61		2.58	1.571	F1	mg/Kg	☼	-1	20 - 120	10	49
Dibenz(a,h)anthracene	0.318		2.58	1.897		mg/Kg	☼	61	12 - 128	8	50
Dibenzofuran	ND		2.58	1.579		mg/Kg	☼	61	21 - 120	9	50
Diethyl phthalate	ND		2.58	1.576		mg/Kg	☼	61	29 - 122	8	45
Dimethyl phthalate	ND		2.58	ND		mg/Kg	☼	61	30 - 120	20	46
Di-n-butyl phthalate	ND		2.58	1.621		mg/Kg	☼	63	29 - 126	12	49
Di-n-octyl phthalate	ND		2.58	1.690		mg/Kg	☼	65	27 - 130	5	50
Fluoranthene	2.79		2.58	1.705	F1	mg/Kg	☼	-42	10 - 143	14	50
Fluorene	ND		2.58	1.665		mg/Kg	☼	64	20 - 120	10	50
Hexachlorobenzene	ND		2.58	1.740		mg/Kg	☼	67	25 - 120	12	50
Hexachlorobutadiene	ND		2.58	1.696		mg/Kg	☼	66	10 - 120	13	50
Hexachlorocyclopentadiene	ND		2.58	ND	F1	mg/Kg	☼	0	10 - 120	NC	50
Hexachloroethane	ND		2.58	0.9234		mg/Kg	☼	36	10 - 120	35	50
Indeno[1,2,3-cd]pyrene	1.14		2.58	1.907		mg/Kg	☼	30	22 - 121	7	50
Isophorone	ND		2.58	1.632		mg/Kg	☼	63	24 - 120	12	50
Naphthalene	ND		2.58	1.599		mg/Kg	☼	62	10 - 120	12	50
Nitrobenzene	ND		2.58	1.708		mg/Kg	☼	66	19 - 120	14	50
N-Nitrosodi-n-propylamine	ND		2.58	1.644		mg/Kg	☼	64	24 - 120	8	50

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

Lab Sample ID: 460-82584-C-3-C MSD
Matrix: Solid
Analysis Batch: 190878

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 190624

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
n-Nitrosodiphenylamine(as diphenylamine)	ND		2.21	1.546		mg/Kg	☼	70	26 - 150	11	50
Phenanthrene	0.993		2.58	1.639		mg/Kg	☼	25	21 - 122	10	50
Pyrene	2.34		2.58	1.734	F1	mg/Kg	☼	-23	20 - 123	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*68*		*10 - 120*
2-Fluorobiphenyl (Surr)	*54*		*29 - 120*
2-Fluorophenol (Surr)	*54*		*10 - 120*
Nitrobenzene-d5 (Surr)	*63*		*27 - 120*
Phenol-d5 (Surr)	*56*		*10 - 120*
Terphenyl-d14 (Surr)	*65*		*13 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 490-190802/1-A
Matrix: Solid
Analysis Batch: 191315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
alpha-BHC	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
beta-BHC	ND		0.00330		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
delta-BHC	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
gamma-BHC (Lindane)	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
alpha-Chlordane	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
gamma-Chlordane	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Chlordane (technical)	ND		0.0667		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
4,4'-DDD	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
4,4'-DDE	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
4,4'-DDT	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Dieldrin	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Endosulfan I	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Endosulfan II	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Endosulfan sulfate	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Endrin	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Endrin aldehyde	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Endrin ketone	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Heptachlor	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Heptachlor epoxide	ND		0.00170		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Methoxychlor	ND		0.00330		mg/Kg		09/16/14 09:15	09/17/14 19:05	1
Toxaphene	ND		0.0667		mg/Kg		09/16/14 09:15	09/17/14 19:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*21 - 145*	*09/16/14 09:15*	*09/17/14 19:05*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*25 - 150*	*09/16/14 09:15*	*09/17/14 19:05*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 490-190802/8-A
Matrix: Solid
Analysis Batch: 191315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.0167	0.01511		mg/Kg		91	47 - 132
alpha-BHC	0.0167	0.01508		mg/Kg		90	45 - 128
beta-BHC	0.0167	0.01547		mg/Kg		93	48 - 135
delta-BHC	0.0167	0.01461		mg/Kg		88	10 - 149
gamma-BHC (Lindane)	0.0167	0.01576		mg/Kg		95	48 - 131
alpha-Chlordane	0.0167	0.01453		mg/Kg		87	47 - 134
gamma-Chlordane	0.0167	0.01554		mg/Kg		93	48 - 145
4,4'-DDD	0.0167	0.01711		mg/Kg		103	46 - 149
4,4'-DDE	0.0167	0.01555		mg/Kg		93	48 - 139
4,4'-DDT	0.0167	0.01908		mg/Kg		114	24 - 150
Dieldrin	0.0167	0.01641		mg/Kg		98	42 - 137
Endosulfan I	0.0167	0.01535		mg/Kg		92	10 - 150
Endosulfan II	0.0167	0.01546		mg/Kg		93	12 - 150
Endosulfan sulfate	0.0167	0.01624		mg/Kg		97	36 - 148
Endrin	0.0167	0.01888		mg/Kg		113	46 - 145
Endrin aldehyde	0.0167	0.01388		mg/Kg		83	48 - 150
Endrin ketone	0.0167	0.01672		mg/Kg		100	43 - 150
Heptachlor	0.0167	0.01880		mg/Kg		113	45 - 140
Heptachlor epoxide	0.0167	0.01617		mg/Kg		97	47 - 133
Methoxychlor	0.0167	0.01460	p	mg/Kg		88	23 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*97*		*21 - 145*
DCB Decachlorobiphenyl (Surr)	*105*		*25 - 150*

Lab Sample ID: LCS 490-190802/9-A
Matrix: Solid
Analysis Batch: 191315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlordane (technical)	0.167	0.1677		mg/Kg		101	50 - 150
Toxaphene	0.333	0.3251		mg/Kg		98	10 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*13*	*X p*	*21 - 145*
DCB Decachlorobiphenyl (Surr)	*-3*	*X*	*25 - 150*

Lab Sample ID: 490-61407-D-2-E MS
Matrix: Solid
Analysis Batch: 191315

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 190802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		0.0166	0.01420		mg/Kg	☼	86	11 - 140
alpha-BHC	ND		0.0166	0.01440		mg/Kg	☼	87	23 - 138
beta-BHC	ND		0.0166	0.01398		mg/Kg	☼	84	12 - 179
delta-BHC	ND		0.0166	0.01358		mg/Kg	☼	82	10 - 149
gamma-BHC (Lindane)	ND		0.0166	0.01480		mg/Kg	☼	89	24 - 145

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 490-61407-D-2-E MS
Matrix: Solid
Analysis Batch: 191315

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 190802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-Chlordane	ND		0.0166	0.01361		mg/Kg	☼	82	10 - 140
gamma-Chlordane	ND		0.0166	0.01488		mg/Kg	☼	90	10 - 140
4,4'-DDD	ND		0.0166	0.01628		mg/Kg	☼	98	10 - 154
4,4'-DDE	ND		0.0166	0.01490		mg/Kg	☼	90	14 - 139
4,4'-DDT	ND		0.0166	0.01854		mg/Kg	☼	112	10 - 152
Dieldrin	ND		0.0166	0.01554		mg/Kg	☼	94	10 - 148
Endosulfan I	ND		0.0166	0.01483		mg/Kg	☼	90	10 - 158
Endosulfan II	ND		0.0166	0.01466		mg/Kg	☼	88	10 - 152
Endosulfan sulfate	ND		0.0166	0.01534		mg/Kg	☼	93	10 - 148
Endrin	ND		0.0166	0.01720		mg/Kg	☼	104	20 - 145
Endrin aldehyde	ND		0.0166	0.01341		mg/Kg	☼	81	13 - 167
Endrin ketone	ND		0.0166	0.01617		mg/Kg	☼	98	13 - 150
Heptachlor	ND		0.0166	0.01790		mg/Kg	☼	108	10 - 161
Heptachlor epoxide	ND		0.0166	0.01540		mg/Kg	☼	93	15 - 139
Methoxychlor	ND		0.0166	0.01333	p	mg/Kg	☼	80	10 - 175

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*89*		*21 - 145*
DCB Decachlorobiphenyl (Surr)	*95*		*25 - 150*

Lab Sample ID: 490-61407-D-2-F MSD
Matrix: Solid
Analysis Batch: 191315

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 190802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		0.0167	0.01532		mg/Kg	☼	92	11 - 140	8	50
alpha-BHC	ND		0.0167	0.01570		mg/Kg	☼	94	23 - 138	9	50
beta-BHC	ND		0.0167	0.01531		mg/Kg	☼	92	12 - 179	9	50
delta-BHC	ND		0.0167	0.01504		mg/Kg	☼	90	10 - 149	10	50
gamma-BHC (Lindane)	ND		0.0167	0.01614		mg/Kg	☼	97	24 - 145	9	50
alpha-Chlordane	ND		0.0167	0.01519		mg/Kg	☼	91	10 - 140	11	50
gamma-Chlordane	ND		0.0167	0.01616		mg/Kg	☼	97	10 - 140	8	50
4,4'-DDD	ND		0.0167	0.01830		mg/Kg	☼	110	10 - 154	12	50
4,4'-DDE	ND		0.0167	0.01642		mg/Kg	☼	99	14 - 139	10	50
4,4'-DDT	ND		0.0167	0.02088		mg/Kg	☼	125	10 - 152	12	50
Dieldrin	ND		0.0167	0.01717		mg/Kg	☼	103	10 - 148	10	50
Endosulfan I	ND		0.0167	0.01599		mg/Kg	☼	96	10 - 158	8	50
Endosulfan II	ND		0.0167	0.01624		mg/Kg	☼	97	10 - 152	10	50
Endosulfan sulfate	ND		0.0167	0.01726		mg/Kg	☼	104	10 - 148	12	50
Endrin	ND		0.0167	0.01813		mg/Kg	☼	109	20 - 145	5	50
Endrin aldehyde	ND		0.0167	0.01573		mg/Kg	☼	94	13 - 167	16	50
Endrin ketone	ND		0.0167	0.01849		mg/Kg	☼	111	13 - 150	13	50
Heptachlor	ND		0.0167	0.01949		mg/Kg	☼	117	10 - 161	9	50
Heptachlor epoxide	ND		0.0167	0.01687		mg/Kg	☼	101	15 - 139	9	50
Methoxychlor	ND		0.0167	0.01557	p	mg/Kg	☼	93	10 - 175	15	50

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 490-61407-D-2-F MSD
Matrix: Solid
Analysis Batch: 191315

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 190802

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*21 - 145*
DCB Decachlorobiphenyl (Surr)	*102*		*25 - 150*

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

Lab Sample ID: MB 490-190802/1-A
Matrix: Solid
Analysis Batch: 191127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/Kg		09/16/14 09:15	09/18/14 00:21	1
PCB-1221	ND		0.0333		mg/Kg		09/16/14 09:15	09/18/14 00:21	1
PCB-1232	ND		0.0333		mg/Kg		09/16/14 09:15	09/18/14 00:21	1
PCB-1242	ND		0.0333		mg/Kg		09/16/14 09:15	09/18/14 00:21	1
PCB-1248	ND		0.0333		mg/Kg		09/16/14 09:15	09/18/14 00:21	1
PCB-1254	ND		0.0333		mg/Kg		09/16/14 09:15	09/18/14 00:21	1
PCB-1260	ND		0.0333		mg/Kg		09/16/14 09:15	09/18/14 00:21	1
PCB-1262	ND		0.0333		mg/Kg		09/16/14 09:15	09/18/14 00:21	1
PCB-1268	ND		0.0333		mg/Kg		09/16/14 09:15	09/18/14 00:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*112*		*20 - 150*	*09/16/14 09:15*	*09/18/14 00:21*	*1*
Tetrachloro-m-xylene	*101*		*19 - 147*	*09/16/14 09:15*	*09/18/14 00:21*	*1*

Lab Sample ID: LCS 490-190802/2-A
Matrix: Solid
Analysis Batch: 191127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.167	0.1518		mg/Kg		91	65 - 125
PCB-1260	0.167	0.1741		mg/Kg		104	52 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*115*		*20 - 150*
Tetrachloro-m-xylene	*90*		*19 - 147*

Lab Sample ID: 490-61407-G-1-B MS
Matrix: Solid
Analysis Batch: 191127

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 190802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		0.170	0.1509		mg/Kg	☼	89	42 - 140
PCB-1260	ND		0.170	0.1674		mg/Kg	☼	99	37 - 159

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*103*		*20 - 150*
Tetrachloro-m-xylene	*90*		*19 - 147*

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

Lab Sample ID: 490-61407-G-1-C MSD
Matrix: Solid
Analysis Batch: 191127

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 190802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.169	0.1677		mg/Kg	☼	99	42 - 140	11	50
PCB-1260	ND		0.169	0.1792		mg/Kg	☼	106	37 - 159	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*107*		*20 - 150*
Tetrachloro-m-xylene	*97*		*19 - 147*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 490-190656/1-A
Matrix: Solid
Analysis Batch: 191011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.0700		mg/Kg		09/15/14 11:49	09/16/14 18:35	1
2,4,5-T	ND		0.0330		mg/Kg		09/15/14 11:49	09/16/14 18:35	1
2,4,5-TP (Silvex)	ND		0.0330		mg/Kg		09/15/14 11:49	09/16/14 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dichloroacetic acid(Surr)	*77*	*p*	*10 - 150*	*09/15/14 11:49*	*09/16/14 18:35*	*1*

Lab Sample ID: LCS 490-190656/2-A
Matrix: Solid
Analysis Batch: 191011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	0.167	0.1454		mg/Kg		87	10 - 130
2,4,5-T	0.167	0.2088		mg/Kg		125	10 - 150
2,4,5-TP (Silvex)	0.167	0.2271		mg/Kg		136	10 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dichloroacetic acid(Surr)	*85*	*p*	*10 - 150*

Lab Sample ID: 490-61407-D-1-F MS
Matrix: Solid
Analysis Batch: 191011

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 190656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	ND		0.170	0.08959	p	mg/Kg	☼	53	10 - 161
2,4,5-T	ND		0.170	0.1482		mg/Kg	☼	87	10 - 157
2,4,5-TP (Silvex)	ND		0.170	0.1598		mg/Kg	☼	94	10 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dichloroacetic acid(Surr)	*74*		*10 - 150*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 490-61407-D-1-G MSD
Matrix: Solid
Analysis Batch: 191011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 190656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	ND		0.170	ND	F1	mg/Kg	☼	0	10 - 161	NC	50
2,4,5-T	ND		0.170	0.08655	F2	mg/Kg	☼	51	10 - 157	53	50
2,4,5-TP (Silvex)	ND		0.170	0.08937	F2	mg/Kg	☼	53	10 - 139	57	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dichloroacetic acid(Surr)	*20*	*p*	*10 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-191160/1-A
Matrix: Solid
Analysis Batch: 191390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 191160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		19.1		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Antimony	ND		9.54		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Arsenic	ND		1.91		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Barium	ND		1.91		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Beryllium	ND		0.954		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Cadmium	ND		0.954		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Calcium	ND		191		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Chromium	ND		0.954		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Cobalt	ND		1.91		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Copper	ND		1.91		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Iron	ND		38.2		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Magnesium	ND		191		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Manganese	ND		2.86		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Nickel	ND		1.91		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Potassium	ND		191		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Selenium	ND		1.91		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Silver	ND		0.954		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Sodium	ND		191		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Thallium	ND		1.91		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Vanadium	ND		9.54		mg/Kg		09/17/14 11:41	09/17/14 20:19	1
Zinc	ND		9.54		mg/Kg		09/17/14 11:41	09/17/14 20:19	1

Lab Sample ID: MB 490-191160/1-A
Matrix: Solid
Analysis Batch: 191568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 191160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.954		mg/Kg		09/17/14 11:41	09/18/14 11:48	1
Sodium	ND		191		mg/Kg		09/17/14 11:41	09/18/14 11:48	1

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

Lab Sample ID: LCS 490-191160/2-A
Matrix: Solid
Analysis Batch: 191390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	783	798.2		mg/Kg		102	80 - 120
Antimony	39.1	36.95		mg/Kg		94	80 - 120
Arsenic	19.6	17.65		mg/Kg		90	80 - 120
Barium	783	777.9		mg/Kg		99	80 - 120
Beryllium	19.6	20.18		mg/Kg		103	80 - 120
Cadmium	19.6	18.45		mg/Kg		94	80 - 120
Calcium	1960	2049		mg/Kg		105	80 - 120
Chromium	78.3	78.47		mg/Kg		100	80 - 120
Cobalt	196	200.0		mg/Kg		102	80 - 120
Copper	97.8	98.69		mg/Kg		101	80 - 120
Iron	391	411.5		mg/Kg		105	80 - 120
Lead	19.6	18.77		mg/Kg		96	80 - 120
Magnesium	1960	2106		mg/Kg		108	80 - 120
Manganese	196	193.0		mg/Kg		99	80 - 120
Nickel	196	191.0		mg/Kg		98	80 - 120
Potassium	1960	1988		mg/Kg		102	80 - 120
Selenium	19.6	18.90		mg/Kg		97	80 - 120
Silver	19.6	18.90		mg/Kg		97	80 - 120
Sodium	1960	1998		mg/Kg		102	80 - 120
Thallium	19.6	17.91		mg/Kg		91	80 - 120
Vanadium	196	202.7		mg/Kg		104	80 - 120
Zinc	196	190.2		mg/Kg		97	80 - 120

Lab Sample ID: 490-61039-A-8-C MS
Matrix: Solid
Analysis Batch: 191390

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 191160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8450		839	9636	4	mg/Kg	☼	142	75 - 125
Antimony	ND		41.9	36.89		mg/Kg	☼	88	75 - 125
Arsenic	4.85		21.0	24.58		mg/Kg	☼	94	75 - 125
Barium	211		839	1008		mg/Kg	☼	95	75 - 125
Beryllium	ND		21.0	20.57		mg/Kg	☼	95	75 - 125
Cadmium	ND		21.0	18.24		mg/Kg	☼	87	75 - 125
Calcium	3030		2100	6908	F1	mg/Kg	☼	185	75 - 125
Chromium	13.4		83.9	90.97		mg/Kg	☼	92	75 - 125
Cobalt	10.5		210	219.8		mg/Kg	☼	100	75 - 125
Copper	21.0		105	125.3		mg/Kg	☼	99	75 - 125
Iron	20000		419	19990	4	mg/Kg	☼	6	75 - 125
Lead	5.35	B	21.0	24.85		mg/Kg	☼	93	75 - 125
Magnesium	4320		2100	7453	F1	mg/Kg	☼	149	75 - 125
Manganese	702		210	745.7	F1	mg/Kg	☼	21	75 - 125
Nickel	20.7		210	216.8		mg/Kg	☼	94	75 - 125
Potassium	751		2100	2844		mg/Kg	☼	100	75 - 125
Selenium	ND		21.0	17.47		mg/Kg	☼	83	75 - 125
Silver	ND		21.0	19.10		mg/Kg	☼	91	75 - 125
Sodium	ND		2100	2139		mg/Kg	☼	93	75 - 125
Thallium	ND		21.0	18.56		mg/Kg	☼	89	75 - 125

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

Lab Sample ID: 490-61039-A-8-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 191390 — **Prep Batch: 191160**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	13.2		210	216.4		mg/Kg	☼	97	75 - 125
Zinc	46.6		210	232.1		mg/Kg	☼	88	75 - 125

Lab Sample ID: 490-61039-A-8-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 191390 — **Prep Batch: 191160**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	8450		859	10300	4	mg/Kg	☼	216	75 - 125	7	20
Antimony	ND		42.9	39.02		mg/Kg	☼	91	75 - 125	6	20
Arsenic	4.85		21.5	25.04		mg/Kg	☼	94	75 - 125	2	20
Barium	211		859	1013		mg/Kg	☼	93	75 - 125	0	20
Beryllium	ND		21.5	21.65		mg/Kg	☼	98	75 - 125	5	20
Cadmium	ND		21.5	19.20		mg/Kg	☼	89	75 - 125	5	20
Calcium	3030		2150	4387	F1 F2	mg/Kg	☼	63	75 - 125	45	20
Chromium	13.4		85.9	96.48		mg/Kg	☼	97	75 - 125	6	20
Cobalt	10.5		215	232.4		mg/Kg	☼	103	75 - 125	6	20
Copper	21.0		107	122.5		mg/Kg	☼	95	75 - 125	2	20
Iron	20000		429	21970	4	mg/Kg	☼	467	75 - 125	9	20
Lead	5.35	B	21.5	22.33		mg/Kg	☼	79	75 - 125	11	20
Magnesium	4320		2150	6747		mg/Kg	☼	113	75 - 125	10	20
Manganese	702		215	844.2	F1	mg/Kg	☼	66	75 - 125	12	20
Nickel	20.7		215	231.5		mg/Kg	☼	98	75 - 125	7	20
Potassium	751		2150	3041		mg/Kg	☼	107	75 - 125	7	20
Selenium	ND		21.5	18.77		mg/Kg	☼	87	75 - 125	7	20
Silver	ND		21.5	19.97		mg/Kg	☼	93	75 - 125	4	20
Sodium	ND		2150	2244		mg/Kg	☼	96	75 - 125	5	20
Thallium	ND		21.5	19.86		mg/Kg	☼	93	75 - 125	7	20
Vanadium	13.2		215	228.3		mg/Kg	☼	100	75 - 125	5	20
Zinc	46.6		215	244.8		mg/Kg	☼	92	75 - 125	5	20

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

Lab Sample ID: MB 490-191255/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 191558 — **Prep Batch: 191255**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0995		mg/Kg		09/17/14 15:02	09/18/14 10:57	1

Lab Sample ID: LCS 490-191255/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 191558 — **Prep Batch: 191255**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.1885		mg/Kg		113	80 - 120

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

Lab Sample ID: 490-61553-B-1-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 191558 — **Prep Batch: 191255**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.193	0.2241		mg/Kg	☼	116	80 - 120

Lab Sample ID: 490-61553-B-1-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 191558 — **Prep Batch: 191255**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.194	0.2220		mg/Kg	☼	114	80 - 120	1	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 490-191554/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 191636 — **Prep Batch: 191554**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		2.00		mg/Kg		09/18/14 13:57	09/18/14 16:47	1

Lab Sample ID: LCS 490-191554/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 191636 — **Prep Batch: 191554**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	4.750		mg/Kg		95	80 - 120

Lab Sample ID: 490-61422-1 MS — **Client Sample ID: BRG-3**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 191636 — **Prep Batch: 191554**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		5.19	3.841		mg/Kg	☼	74	69 - 135

Lab Sample ID: 490-61422-1 MSD — **Client Sample ID: BRG-3**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 191636 — **Prep Batch: 191554**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		5.19	3.997		mg/Kg	☼	77	69 - 135	4	50

Method: Moisture - Percent Moisture

Lab Sample ID: 490-61422-1 DU — **Client Sample ID: BRG-3**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 190593

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	96		96		%		0.05	20

GC/MS VOA

Analysis Batch: 190563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-1	BRG-3	Total/NA	Soil	8260C	190675
490-61422-2	BRG-4	Total/NA	Soil	8260C	190675
490-61422-3	BRG-5	Total/NA	Soil	8260C	190675
490-61422-4	BRG-6	Total/NA	Soil	8260C	190675
490-61422-5 MS	BRG-7	Total/NA	Soil	8260C	190675
490-61422-5 MSD	BRG-7	Total/NA	Soil	8260C	190675
LCS 490-190563/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 490-190563/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
MB 490-190563/7	Method Blank	Total/NA	Solid	8260C	

Prep Batch: 190675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-1	BRG-3	Total/NA	Soil	5030C	
490-61422-2	BRG-4	Total/NA	Soil	5030C	
490-61422-3	BRG-5	Total/NA	Soil	5030C	
490-61422-4	BRG-6	Total/NA	Soil	5030C	
490-61422-5	BRG-7	Total/NA	Soil	5030C	
490-61422-5 MS	BRG-7	Total/NA	Soil	5030C	
490-61422-5 MSD	BRG-7	Total/NA	Soil	5030C	
490-61422-6	BRG-8	Total/NA	Soil	5030C	
490-61422-7	BRG-9	Total/NA	Soil	5030C	
490-61422-8	BRG-10	Total/NA	Soil	5030C	
490-61422-9	BRG-11	Total/NA	Soil	5030C	
490-61422-10	BRG-12	Total/NA	Soil	5030C	
490-61422-11	BRG-13	Total/NA	Soil	5030C	
490-61422-12	BRG-14	Total/NA	Soil	5030C	
490-61422-12 MS	BRG-14	Total/NA	Soil	5030C	
490-61422-12 MSD	BRG-14	Total/NA	Soil	5030C	

Analysis Batch: 190813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-5	BRG-7	Total/NA	Soil	8260C	190675
490-61422-6	BRG-8	Total/NA	Soil	8260C	190675
490-61422-7	BRG-9	Total/NA	Soil	8260C	190675
490-61422-8	BRG-10	Total/NA	Soil	8260C	190675
490-61422-9	BRG-11	Total/NA	Soil	8260C	190675
490-61422-10	BRG-12	Total/NA	Soil	8260C	190675
490-61422-11	BRG-13	Total/NA	Soil	8260C	190675
490-61422-12	BRG-14	Total/NA	Soil	8260C	190675
490-61422-12 MS	BRG-14	Total/NA	Soil	8260C	190675
490-61422-12 MSD	BRG-14	Total/NA	Soil	8260C	190675
LCS 490-190813/4	Lab Control Sample	Total/NA	Solid	8260C	
LCS 490-190813/6	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 490-190813/5	Lab Control Sample Dup	Total/NA	Solid	8260C	
LCSD 490-190813/7	Lab Control Sample Dup	Total/NA	Solid	8260C	
MB 490-190813/10	Method Blank	Total/NA	Solid	8260C	
MB 490-190813/9	Method Blank	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 190624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-82584-C-3-B MS	Matrix Spike	Total/NA	Solid	3550C	
460-82584-C-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-61422-1	BRG-3	Total/NA	Soil	3550C	
490-61422-2	BRG-4	Total/NA	Soil	3550C	
490-61422-3	BRG-5	Total/NA	Soil	3550C	
490-61422-4	BRG-6	Total/NA	Soil	3550C	
490-61422-5	BRG-7	Total/NA	Soil	3550C	
490-61422-6	BRG-8	Total/NA	Soil	3550C	
490-61422-7	BRG-9	Total/NA	Soil	3550C	
490-61422-8	BRG-10	Total/NA	Soil	3550C	
490-61422-9	BRG-11	Total/NA	Soil	3550C	
490-61422-10	BRG-12	Total/NA	Soil	3550C	
490-61422-11	BRG-13	Total/NA	Soil	3550C	
490-61422-12	BRG-14	Total/NA	Soil	3550C	
LCS 490-190624/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-190624/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 190698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-1	BRG-3	Total/NA	Soil	8270D	190624
490-61422-2	BRG-4	Total/NA	Soil	8270D	190624
490-61422-3	BRG-5	Total/NA	Soil	8270D	190624
490-61422-4	BRG-6	Total/NA	Soil	8270D	190624
490-61422-5	BRG-7	Total/NA	Soil	8270D	190624
490-61422-6	BRG-8	Total/NA	Soil	8270D	190624
490-61422-7	BRG-9	Total/NA	Soil	8270D	190624
490-61422-8	BRG-10	Total/NA	Soil	8270D	190624
490-61422-9	BRG-11	Total/NA	Soil	8270D	190624
490-61422-10	BRG-12	Total/NA	Soil	8270D	190624
490-61422-11	BRG-13	Total/NA	Soil	8270D	190624
LCS 490-190624/2-A	Lab Control Sample	Total/NA	Solid	8270D	190624
MB 490-190624/1-A	Method Blank	Total/NA	Solid	8270D	190624

Analysis Batch: 190878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-82584-C-3-B MS	Matrix Spike	Total/NA	Solid	8270D	190624
460-82584-C-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	190624
490-61422-12	BRG-14	Total/NA	Soil	8270D	190624

GC Semi VOA

Prep Batch: 190656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61407-D-1-F MS	Matrix Spike	Total/NA	Solid	8151A	
490-61407-D-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8151A	
490-61422-1	BRG-3	Total/NA	Soil	8151A	
490-61422-2	BRG-4	Total/NA	Soil	8151A	
490-61422-3	BRG-5	Total/NA	Soil	8151A	
490-61422-4	BRG-6	Total/NA	Soil	8151A	
490-61422-5	BRG-7	Total/NA	Soil	8151A	

GC Semi VOA (Continued)

Prep Batch: 190656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-6	BRG-8	Total/NA	Soil	8151A	
490-61422-7	BRG-9	Total/NA	Soil	8151A	
490-61422-8	BRG-10	Total/NA	Soil	8151A	
490-61422-9	BRG-11	Total/NA	Soil	8151A	
490-61422-10	BRG-12	Total/NA	Soil	8151A	
490-61422-11	BRG-13	Total/NA	Soil	8151A	
490-61422-12	BRG-14	Total/NA	Soil	8151A	
LCS 490-190656/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 490-190656/1-A	Method Blank	Total/NA	Solid	8151A	

Prep Batch: 190802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61407-D-2-E MS	Matrix Spike	Total/NA	Solid	3550C	
490-61407-D-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-61407-G-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-61407-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-61422-1	BRG-3	Total/NA	Soil	3550C	
490-61422-2	BRG-4	Total/NA	Soil	3550C	
490-61422-3	BRG-5	Total/NA	Soil	3550C	
490-61422-4	BRG-6	Total/NA	Soil	3550C	
490-61422-5	BRG-7	Total/NA	Soil	3550C	
490-61422-6	BRG-8	Total/NA	Soil	3550C	
490-61422-7	BRG-9	Total/NA	Soil	3550C	
490-61422-8	BRG-10	Total/NA	Soil	3550C	
490-61422-9	BRG-11	Total/NA	Soil	3550C	
490-61422-10	BRG-12	Total/NA	Soil	3550C	
490-61422-11	BRG-13	Total/NA	Soil	3550C	
490-61422-12	BRG-14	Total/NA	Soil	3550C	
LCS 490-190802/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 490-190802/8-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 490-190802/9-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-190802/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 191011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61407-D-1-F MS	Matrix Spike	Total/NA	Solid	8151A	190656
490-61407-D-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8151A	190656
490-61422-1	BRG-3	Total/NA	Soil	8151A	190656
490-61422-2	BRG-4	Total/NA	Soil	8151A	190656
490-61422-3	BRG-5	Total/NA	Soil	8151A	190656
490-61422-4	BRG-6	Total/NA	Soil	8151A	190656
490-61422-5	BRG-7	Total/NA	Soil	8151A	190656
490-61422-6	BRG-8	Total/NA	Soil	8151A	190656
490-61422-7	BRG-9	Total/NA	Soil	8151A	190656
490-61422-8	BRG-10	Total/NA	Soil	8151A	190656
490-61422-9	BRG-11	Total/NA	Soil	8151A	190656
490-61422-10	BRG-12	Total/NA	Soil	8151A	190656
490-61422-11	BRG-13	Total/NA	Soil	8151A	190656
490-61422-12	BRG-14	Total/NA	Soil	8151A	190656
LCS 490-190656/2-A	Lab Control Sample	Total/NA	Solid	8151A	190656
MB 490-190656/1-A	Method Blank	Total/NA	Solid	8151A	190656

GC Semi VOA (Continued)

Analysis Batch: 191127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61407-G-1-B MS	Matrix Spike	Total/NA	Solid	8082A	190802
490-61407-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	190802
490-61422-1	BRG-3	Total/NA	Soil	8082A	190802
490-61422-2	BRG-4	Total/NA	Soil	8082A	190802
490-61422-3	BRG-5	Total/NA	Soil	8082A	190802
490-61422-4	BRG-6	Total/NA	Soil	8082A	190802
490-61422-5	BRG-7	Total/NA	Soil	8082A	190802
490-61422-6	BRG-8	Total/NA	Soil	8082A	190802
490-61422-7	BRG-9	Total/NA	Soil	8082A	190802
490-61422-8	BRG-10	Total/NA	Soil	8082A	190802
490-61422-9	BRG-11	Total/NA	Soil	8082A	190802
490-61422-10	BRG-12	Total/NA	Soil	8082A	190802
490-61422-11	BRG-13	Total/NA	Soil	8082A	190802
490-61422-12	BRG-14	Total/NA	Soil	8082A	190802
LCS 490-190802/2-A	Lab Control Sample	Total/NA	Solid	8082A	190802
MB 490-190802/1-A	Method Blank	Total/NA	Solid	8082A	190802

Analysis Batch: 191315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61407-D-2-E MS	Matrix Spike	Total/NA	Solid	8081B	190802
490-61407-D-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	190802
490-61422-1	BRG-3	Total/NA	Soil	8081B	190802
490-61422-2	BRG-4	Total/NA	Soil	8081B	190802
490-61422-3	BRG-5	Total/NA	Soil	8081B	190802
490-61422-4	BRG-6	Total/NA	Soil	8081B	190802
490-61422-5	BRG-7	Total/NA	Soil	8081B	190802
490-61422-6	BRG-8	Total/NA	Soil	8081B	190802
490-61422-7	BRG-9	Total/NA	Soil	8081B	190802
490-61422-8	BRG-10	Total/NA	Soil	8081B	190802
490-61422-9	BRG-11	Total/NA	Soil	8081B	190802
490-61422-10	BRG-12	Total/NA	Soil	8081B	190802
490-61422-11	BRG-13	Total/NA	Soil	8081B	190802
490-61422-12	BRG-14	Total/NA	Soil	8081B	190802
LCS 490-190802/8-A	Lab Control Sample	Total/NA	Solid	8081B	190802
LCS 490-190802/9-A	Lab Control Sample	Total/NA	Solid	8081B	190802
MB 490-190802/1-A	Method Blank	Total/NA	Solid	8081B	190802

Metals

Prep Batch: 191160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61039-A-8-C MS	Matrix Spike	Total/NA	Solid	3051A	
490-61039-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3051A	
490-61422-1	BRG-3	Total/NA	Soil	3051A	
490-61422-2	BRG-4	Total/NA	Soil	3051A	
490-61422-3	BRG-5	Total/NA	Soil	3051A	
490-61422-4	BRG-6	Total/NA	Soil	3051A	
490-61422-5	BRG-7	Total/NA	Soil	3051A	
490-61422-6	BRG-8	Total/NA	Soil	3051A	
490-61422-7	BRG-9	Total/NA	Soil	3051A	

Metals (Continued)

Prep Batch: 191160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-8	BRG-10	Total/NA	Soil	3051A	
490-61422-9	BRG-11	Total/NA	Soil	3051A	
490-61422-10	BRG-12	Total/NA	Soil	3051A	
490-61422-11	BRG-13	Total/NA	Soil	3051A	
490-61422-12	BRG-14	Total/NA	Soil	3051A	
LCS 490-191160/2-A	Lab Control Sample	Total/NA	Solid	3051A	
MB 490-191160/1-A	Method Blank	Total/NA	Solid	3051A	

Prep Batch: 191255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-1	BRG-3	Total/NA	Soil	7471B	
490-61422-2	BRG-4	Total/NA	Soil	7471B	
490-61422-3	BRG-5	Total/NA	Soil	7471B	
490-61422-4	BRG-6	Total/NA	Soil	7471B	
490-61422-5	BRG-7	Total/NA	Soil	7471B	
490-61422-6	BRG-8	Total/NA	Soil	7471B	
490-61422-7	BRG-9	Total/NA	Soil	7471B	
490-61422-8	BRG-10	Total/NA	Soil	7471B	
490-61422-9	BRG-11	Total/NA	Soil	7471B	
490-61422-10	BRG-12	Total/NA	Soil	7471B	
490-61422-11	BRG-13	Total/NA	Soil	7471B	
490-61422-12	BRG-14	Total/NA	Soil	7471B	
490-61553-B-1-G MS	Matrix Spike	Total/NA	Solid	7471B	
490-61553-B-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
LCS 490-191255/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 490-191255/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 191390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61039-A-8-C MS	Matrix Spike	Total/NA	Solid	6010C	191160
490-61039-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010C	191160
490-61422-1	BRG-3	Total/NA	Soil	6010C	191160
490-61422-2	BRG-4	Total/NA	Soil	6010C	191160
490-61422-3	BRG-5	Total/NA	Soil	6010C	191160
490-61422-4	BRG-6	Total/NA	Soil	6010C	191160
490-61422-5	BRG-7	Total/NA	Soil	6010C	191160
490-61422-6	BRG-8	Total/NA	Soil	6010C	191160
490-61422-7	BRG-9	Total/NA	Soil	6010C	191160
490-61422-8	BRG-10	Total/NA	Soil	6010C	191160
490-61422-9	BRG-11	Total/NA	Soil	6010C	191160
490-61422-10	BRG-12	Total/NA	Soil	6010C	191160
490-61422-11	BRG-13	Total/NA	Soil	6010C	191160
490-61422-12	BRG-14	Total/NA	Soil	6010C	191160
LCS 490-191160/2-A	Lab Control Sample	Total/NA	Solid	6010C	191160
MB 490-191160/1-A	Method Blank	Total/NA	Solid	6010C	191160

Analysis Batch: 191558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-1	BRG-3	Total/NA	Soil	7471B	191255
490-61422-2	BRG-4	Total/NA	Soil	7471B	191255
490-61422-3	BRG-5	Total/NA	Soil	7471B	191255

Metals (Continued)

Analysis Batch: 191558 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-4	BRG-6	Total/NA	Soil	7471B	191255
490-61422-5	BRG-7	Total/NA	Soil	7471B	191255
490-61422-6	BRG-8	Total/NA	Soil	7471B	191255
490-61422-7	BRG-9	Total/NA	Soil	7471B	191255
490-61422-8	BRG-10	Total/NA	Soil	7471B	191255
490-61422-9	BRG-11	Total/NA	Soil	7471B	191255
490-61422-10	BRG-12	Total/NA	Soil	7471B	191255
490-61422-11	BRG-13	Total/NA	Soil	7471B	191255
490-61422-12	BRG-14	Total/NA	Soil	7471B	191255
490-61553-B-1-G MS	Matrix Spike	Total/NA	Solid	7471B	191255
490-61553-B-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	191255
LCS 490-191255/2-A	Lab Control Sample	Total/NA	Solid	7471B	191255
MB 490-191255/1-A	Method Blank	Total/NA	Solid	7471B	191255

Analysis Batch: 191568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-1	BRG-3	Total/NA	Soil	6010C	191160
490-61422-2	BRG-4	Total/NA	Soil	6010C	191160
490-61422-3	BRG-5	Total/NA	Soil	6010C	191160
490-61422-4	BRG-6	Total/NA	Soil	6010C	191160
490-61422-5	BRG-7	Total/NA	Soil	6010C	191160
490-61422-6	BRG-8	Total/NA	Soil	6010C	191160
490-61422-7	BRG-9	Total/NA	Soil	6010C	191160
490-61422-9	BRG-11	Total/NA	Soil	6010C	191160
490-61422-10	BRG-12	Total/NA	Soil	6010C	191160
490-61422-11	BRG-13	Total/NA	Soil	6010C	191160
490-61422-12	BRG-14	Total/NA	Soil	6010C	191160
MB 490-191160/1-A	Method Blank	Total/NA	Solid	6010C	191160

General Chemistry

Analysis Batch: 190593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-1	BRG-3	Total/NA	Soil	Moisture	
490-61422-1 DU	BRG-3	Total/NA	Soil	Moisture	
490-61422-1 MS	BRG-3	Total/NA	Soil	Moisture	
490-61422-1 MSD	BRG-3	Total/NA	Soil	Moisture	
490-61422-2	BRG-4	Total/NA	Soil	Moisture	
490-61422-3	BRG-5	Total/NA	Soil	Moisture	
490-61422-4	BRG-6	Total/NA	Soil	Moisture	
490-61422-5	BRG-7	Total/NA	Soil	Moisture	
490-61422-6	BRG-8	Total/NA	Soil	Moisture	
490-61422-7	BRG-9	Total/NA	Soil	Moisture	
490-61422-8	BRG-10	Total/NA	Soil	Moisture	
490-61422-9	BRG-11	Total/NA	Soil	Moisture	
490-61422-10	BRG-12	Total/NA	Soil	Moisture	
490-61422-11	BRG-13	Total/NA	Soil	Moisture	
490-61422-12	BRG-14	Total/NA	Soil	Moisture	

General Chemistry (Continued)

Prep Batch: 191554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-1	BRG-3	Total/NA	Soil	9012B	
490-61422-1 MS	BRG-3	Total/NA	Soil	9012B	
490-61422-1 MSD	BRG-3	Total/NA	Soil	9012B	
490-61422-2	BRG-4	Total/NA	Soil	9012B	
490-61422-3	BRG-5	Total/NA	Soil	9012B	
490-61422-4	BRG-6	Total/NA	Soil	9012B	
490-61422-5	BRG-7	Total/NA	Soil	9012B	
490-61422-6	BRG-8	Total/NA	Soil	9012B	
490-61422-7	BRG-9	Total/NA	Soil	9012B	
490-61422-8	BRG-10	Total/NA	Soil	9012B	
490-61422-9	BRG-11	Total/NA	Soil	9012B	
490-61422-10	BRG-12	Total/NA	Soil	9012B	
490-61422-11	BRG-13	Total/NA	Soil	9012B	
490-61422-12	BRG-14	Total/NA	Soil	9012B	
LCS 490-191554/2-A	Lab Control Sample	Total/NA	Solid	9012B	
MB 490-191554/1-A	Method Blank	Total/NA	Solid	9012B	

Analysis Batch: 191636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-61422-1	BRG-3	Total/NA	Soil	9012B	191554
490-61422-1 MS	BRG-3	Total/NA	Soil	9012B	191554
490-61422-1 MSD	BRG-3	Total/NA	Soil	9012B	191554
490-61422-2	BRG-4	Total/NA	Soil	9012B	191554
490-61422-3	BRG-5	Total/NA	Soil	9012B	191554
490-61422-4	BRG-6	Total/NA	Soil	9012B	191554
490-61422-5	BRG-7	Total/NA	Soil	9012B	191554
490-61422-6	BRG-8	Total/NA	Soil	9012B	191554
490-61422-7	BRG-9	Total/NA	Soil	9012B	191554
490-61422-8	BRG-10	Total/NA	Soil	9012B	191554
490-61422-9	BRG-11	Total/NA	Soil	9012B	191554
490-61422-10	BRG-12	Total/NA	Soil	9012B	191554
490-61422-11	BRG-13	Total/NA	Soil	9012B	191554
490-61422-12	BRG-14	Total/NA	Soil	9012B	191554
LCS 490-191554/2-A	Lab Control Sample	Total/NA	Solid	9012B	191554
MB 490-191554/1-A	Method Blank	Total/NA	Solid	9012B	191554

Client Sample ID: BRG-3

Lab Sample ID: 490-61422-1

Date Collected: 09/12/14 10:50

Matrix: Soil

Date Received: 09/13/14 09:05

Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			6.32 mL	5 mL	190675	09/15/14 12:53	KKK	TAL NSH
Total/NA	Analysis	8260C		1	6.32 mL	5 mL	190563	09/15/14 15:39	KKK	TAL NSH
Total/NA	Prep	3550C			30.16 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.16 g	1.00 mL	190698	09/15/14 22:08	SNR	TAL NSH
Total/NA	Prep	3550C			31.16 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	31.16 g	10 mL	191315	09/17/14 20:43	HMT	TAL NSH
Total/NA	Prep	3550C			31.16 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	31.16 g	10 mL	191127	09/18/14 15:29	MGH	TAL NSH
Total/NA	Prep	8151A			30.40 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.40 mL	10 mL	191011	09/16/14 20:15	HMT	TAL NSH
Total/NA	Prep	3051A			0.501 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.501 g	100 mL	191390	09/17/14 21:26	DBK	TAL NSH
Total/NA	Prep	3051A			0.501 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.501 g	100 mL	191568	09/18/14 12:24	DBK	TAL NSH
Total/NA	Prep	7471B			0.602 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.602 g	100 mL	191558	09/18/14 11:08	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:49	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-4

Lab Sample ID: 490-61422-2

Date Collected: 09/12/14 10:53

Matrix: Soil

Date Received: 09/13/14 09:05

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.60 mL	5 mL	190675	09/15/14 12:53	KKK	TAL NSH
Total/NA	Analysis	8260C		1	4.60 mL	5 mL	190563	09/15/14 16:08	KKK	TAL NSH
Total/NA	Prep	3550C			30.56 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.56 g	1.00 mL	190698	09/15/14 22:30	SNR	TAL NSH
Total/NA	Prep	3550C			31.86 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	31.86 g	10 mL	191315	09/17/14 20:55	HMT	TAL NSH
Total/NA	Prep	3550C			31.86 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	31.86 g	10 mL	191127	09/18/14 04:53	MGH	TAL NSH
Total/NA	Prep	8151A			30.70 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.70 mL	10 mL	191011	09/16/14 20:29	HMT	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.503 g	100 mL	191390	09/17/14 21:30	DBK	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.503 g	100 mL	191568	09/18/14 12:27	DBK	TAL NSH
Total/NA	Prep	7471B			0.625 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.625 g	100 mL	191558	09/18/14 11:10	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:52	TEM	TAL NSH

Client Sample ID: BRG-4

Date Collected: 09/12/14 10:53
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-2

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-5

Date Collected: 09/12/14 10:55
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-3

Matrix: Soil
Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.33 mL	5 mL	190675	09/15/14 12:53	KKK	TAL NSH
Total/NA	Analysis	8260C		1	5.33 mL	5 mL	190563	09/15/14 16:37	KKK	TAL NSH
Total/NA	Prep	3550C			30.58 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.58 g	1.00 mL	190698	09/15/14 22:53	SNR	TAL NSH
Total/NA	Prep	3550C			32.06 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	32.06 g	10 mL	191315	09/17/14 21:07	HMT	TAL NSH
Total/NA	Prep	3550C			32.06 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	32.06 g	10 mL	191127	09/18/14 05:16	MGH	TAL NSH
Total/NA	Prep	8151A			30.30 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.30 mL	10 mL	191011	09/16/14 20:44	HMT	TAL NSH
Total/NA	Prep	3051A			0.514 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.514 g	100 mL	191390	09/17/14 21:33	DBK	TAL NSH
Total/NA	Prep	3051A			0.514 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.514 g	100 mL	191568	09/18/14 12:31	DBK	TAL NSH
Total/NA	Prep	7471B			0.600 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.600 g	100 mL	191558	09/18/14 11:12	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:53	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-6

Date Collected: 09/12/14 11:00
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-4

Matrix: Soil
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.08 mL	5 mL	190675	09/15/14 12:53	KKK	TAL NSH
Total/NA	Analysis	8260C		1	4.08 mL	5 mL	190563	09/15/14 17:07	KKK	TAL NSH
Total/NA	Prep	3550C			30.25 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.25 g	1.00 mL	190698	09/15/14 23:15	SNR	TAL NSH
Total/NA	Prep	3550C			31.70 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	31.70 g	10 mL	191315	09/17/14 21:20	HMT	TAL NSH
Total/NA	Prep	3550C			31.70 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	31.70 g	10 mL	191127	09/18/14 05:39	MGH	TAL NSH
Total/NA	Prep	8151A			30.09 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.09 mL	10 mL	191011	09/16/14 20:58	HMT	TAL NSH
Total/NA	Prep	3051A			0.507 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH

Lab Chronicle

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-6

Lab Sample ID: 490-61422-4

Date Collected: 09/12/14 11:00
Matrix: Soil
Date Received: 09/13/14 09:05
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1	0.507 g	100 mL	191390	09/17/14 21:37	DBK	TAL NSH
Total/NA	Prep	3051A			0.507 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.507 g	100 mL	191568	09/18/14 12:34	DBK	TAL NSH
Total/NA	Prep	7471B			0.599 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.599 g	100 mL	191558	09/18/14 11:14	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:53	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-7

Lab Sample ID: 490-61422-5

Date Collected: 09/12/14 11:04
Matrix: Soil
Date Received: 09/13/14 09:05
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.28 mL	5 mL	190675	09/15/14 12:53	KKK	TAL NSH
Total/NA	Analysis	8260C		1	4.28 mL	5 mL	190813	09/16/14 19:50	KKK	TAL NSH
Total/NA	Prep	3550C			30.15 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.15 g	1.00 mL	190698	09/15/14 23:37	SNR	TAL NSH
Total/NA	Prep	3550C			32.96 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	32.96 g	10 mL	191315	09/17/14 21:32	HMT	TAL NSH
Total/NA	Prep	3550C			32.96 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	32.96 g	10 mL	191127	09/18/14 06:02	MGH	TAL NSH
Total/NA	Prep	8151A			30.88 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.88 mL	10 mL	191011	09/16/14 21:12	HMT	TAL NSH
Total/NA	Prep	3051A			0.520 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.520 g	100 mL	191390	09/17/14 21:41	DBK	TAL NSH
Total/NA	Prep	3051A			0.520 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.520 g	100 mL	191568	09/18/14 12:38	DBK	TAL NSH
Total/NA	Prep	7471B			0.610 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.610 g	100 mL	191558	09/18/14 13:13	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:54	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-8

Lab Sample ID: 490-61422-6

Date Collected: 09/12/14 11:06
Matrix: Soil
Date Received: 09/13/14 09:05
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.87 mL	5 mL	190675	09/15/14 12:53	KKK	TAL NSH
Total/NA	Analysis	8260C		1	4.87 mL	5 mL	190813	09/16/14 15:47	KKK	TAL NSH
Total/NA	Prep	3550C			30.95 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.95 g	1.00 mL	190698	09/15/14 23:59	SNR	TAL NSH

Client Sample ID: BRG-8

Lab Sample ID: 490-61422-6

Date Collected: 09/12/14 11:06

Matrix: Soil

Date Received: 09/13/14 09:05

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			31.20 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	31.20 g	10 mL	191315	09/17/14 22:08	HMT	TAL NSH
Total/NA	Prep	3550C			31.20 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	31.20 g	10 mL	191127	09/18/14 06:25	MGH	TAL NSH
Total/NA	Prep	8151A			30.26 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.26 mL	10 mL	191011	09/16/14 21:26	HMT	TAL NSH
Total/NA	Prep	3051A			0.520 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.520 g	100 mL	191390	09/17/14 21:44	DBK	TAL NSH
Total/NA	Prep	3051A			0.520 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.520 g	100 mL	191568	09/18/14 12:52	DBK	TAL NSH
Total/NA	Prep	7471B			0.599 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.599 g	100 mL	191558	09/18/14 13:14	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:55	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-9

Lab Sample ID: 490-61422-7

Date Collected: 09/12/14 11:09

Matrix: Soil

Date Received: 09/13/14 09:05

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.69 mL	5 mL	190675	09/15/14 12:53	KKK	TAL NSH
Total/NA	Analysis	8260C		1	4.69 mL	5 mL	190813	09/16/14 16:18	KKK	TAL NSH
Total/NA	Prep	3550C			30.96 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.96 g	1.00 mL	190698	09/16/14 00:22	SNR	TAL NSH
Total/NA	Prep	3550C			31.50 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	31.50 g	10 mL	191315	09/17/14 22:20	HMT	TAL NSH
Total/NA	Prep	3550C			31.50 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	31.50 g	10 mL	191127	09/18/14 15:52	MGH	TAL NSH
Total/NA	Prep	8151A			30.11 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.11 mL	10 mL	191011	09/16/14 21:41	HMT	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.503 g	100 mL	191390	09/17/14 21:48	DBK	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.503 g	100 mL	191568	09/18/14 12:56	DBK	TAL NSH
Total/NA	Prep	7471B			0.596 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.596 g	100 mL	191558	09/18/14 13:16	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:56	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-10

Lab Sample ID: 490-61422-8

Date Collected: 09/12/14 11:10

Matrix: Soil

Date Received: 09/13/14 09:05

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.68 mL	5 mL	190675	09/15/14 12:54	KKK	TAL NSH
Total/NA	Analysis	8260C		1	4.68 mL	5 mL	190813	09/16/14 16:48	KKK	TAL NSH
Total/NA	Prep	3550C			30.58 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.58 g	1.00 mL	190698	09/16/14 00:44	SNR	TAL NSH
Total/NA	Prep	3550C			30.97 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	30.97 g	10 mL	191315	09/17/14 22:33	HMT	TAL NSH
Total/NA	Prep	3550C			30.97 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	30.97 g	10 mL	191127	09/18/14 07:11	MGH	TAL NSH
Total/NA	Prep	8151A			30.13 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.13 mL	10 mL	191011	09/16/14 22:23	HMT	TAL NSH
Total/NA	Prep	3051A			0.514 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.514 g	100 mL	191390	09/17/14 21:51	DBK	TAL NSH
Total/NA	Prep	7471B			0.606 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.606 g	100 mL	191558	09/18/14 13:18	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:56	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-11

Lab Sample ID: 490-61422-9

Date Collected: 09/12/14 11:15

Matrix: Soil

Date Received: 09/13/14 09:05

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.79 mL	5 mL	190675	09/15/14 12:54	KKK	TAL NSH
Total/NA	Analysis	8260C		1	5.79 mL	5 mL	190813	09/16/14 17:19	KKK	TAL NSH
Total/NA	Prep	3550C			30.20 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.20 g	1.00 mL	190698	09/16/14 01:06	SNR	TAL NSH
Total/NA	Prep	3550C			30.91 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	30.91 g	10 mL	191315	09/17/14 22:45	HMT	TAL NSH
Total/NA	Prep	3550C			30.91 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	30.91 g	10 mL	191127	09/18/14 07:34	MGH	TAL NSH
Total/NA	Prep	8151A			30.24 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.24 mL	10 mL	191011	09/16/14 22:37	HMT	TAL NSH
Total/NA	Prep	3051A			0.505 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.505 g	100 mL	191390	09/17/14 21:55	DBK	TAL NSH
Total/NA	Prep	3051A			0.505 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.505 g	100 mL	191568	09/18/14 13:03	DBK	TAL NSH
Total/NA	Prep	7471B			0.601 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.601 g	100 mL	191558	09/18/14 13:20	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:57	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Lab Chronicle

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-12

Date Collected: 09/12/14 11:17
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-10

Matrix: Soil
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.88 mL	5 mL	190675	09/15/14 12:54	KKK	TAL NSH
Total/NA	Analysis	8260C		1	4.88 mL	5 mL	190813	09/16/14 17:49	KKK	TAL NSH
Total/NA	Prep	3550C			30.74 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.74 g	1.00 mL	190698	09/16/14 01:29	SNR	TAL NSH
Total/NA	Prep	3550C			31.85 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	31.85 g	10 mL	191315	09/17/14 22:57	HMT	TAL NSH
Total/NA	Prep	3550C			31.85 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	31.85 g	10 mL	191127	09/18/14 07:57	MGH	TAL NSH
Total/NA	Prep	8151A			30.21 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.21 mL	10 mL	191011	09/16/14 22:52	HMT	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.503 g	100 mL	191390	09/17/14 21:58	DBK	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.503 g	100 mL	191568	09/18/14 13:07	DBK	TAL NSH
Total/NA	Prep	7471B			0.609 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.609 g	100 mL	191558	09/18/14 13:22	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 16:58	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-13

Date Collected: 09/12/14 11:21
Date Received: 09/13/14 09:05

Lab Sample ID: 490-61422-11

Matrix: Soil
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.55 mL	5 mL	190675	09/15/14 12:54	KKK	TAL NSH
Total/NA	Analysis	8260C		1	4.55 mL	5 mL	190813	09/16/14 18:19	KKK	TAL NSH
Total/NA	Prep	3550C			30.76 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.76 g	1.00 mL	190698	09/16/14 01:51	SNR	TAL NSH
Total/NA	Prep	3550C			32.04 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8081B		1	32.04 g	10 mL	191315	09/17/14 23:09	HMT	TAL NSH
Total/NA	Prep	3550C			32.04 g	10 mL	190802	09/16/14 09:15	LDC	TAL NSH
Total/NA	Analysis	8082A		1	32.04 g	10 mL	191127	09/18/14 09:06	MGH	TAL NSH
Total/NA	Prep	8151A			30.31 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.31 mL	10 mL	191011	09/16/14 23:06	HMT	TAL NSH
Total/NA	Prep	3051A			0.502 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.502 g	100 mL	191390	09/17/14 22:14	DBK	TAL NSH
Total/NA	Prep	3051A			0.502 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.502 g	100 mL	191568	09/18/14 13:10	DBK	TAL NSH
Total/NA	Prep	7471B			0.597 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.597 g	100 mL	191558	09/18/14 13:24	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 17:00	TEM	TAL NSH

Lab Chronicle

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Client Sample ID: BRG-13

Lab Sample ID: 490-61422-11

Date Collected: 09/12/14 11:21

Matrix: Soil

Date Received: 09/13/14 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Client Sample ID: BRG-14

Lab Sample ID: 490-61422-12

Date Collected: 09/12/14 11:23

Matrix: Soil

Date Received: 09/13/14 09:05

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			6.01 mL	5 mL	190675	09/15/14 12:54	KKK	TAL NSH
Total/NA	Analysis	8260C		1	6.01 mL	5 mL	190813	09/16/14 18:50	KKK	TAL NSH
Total/NA	Prep	3550C			30.68 g	1.00 mL	190624	09/15/14 10:54	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.68 g	1.00 mL	190878	09/16/14 20:07	SNR	TAL NSH
Total/NA	Prep	3550C			32.35 g	10 mL	190802	09/16/14 09:21	LDC	TAL NSH
Total/NA	Analysis	8081B		1	32.35 g	10 mL	191315	09/17/14 23:21	HMT	TAL NSH
Total/NA	Prep	3550C			32.35 g	10 mL	190802	09/16/14 09:21	LDC	TAL NSH
Total/NA	Analysis	8082A		1	32.35 g	10 mL	191127	09/18/14 09:30	MGH	TAL NSH
Total/NA	Prep	8151A			30.03 mL	10 mL	190656	09/15/14 11:49	RMS	TAL NSH
Total/NA	Analysis	8151A		1	30.03 mL	10 mL	191011	09/16/14 23:20	HMT	TAL NSH
Total/NA	Prep	3051A			0.504 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.504 g	100 mL	191390	09/17/14 22:18	DBK	TAL NSH
Total/NA	Prep	3051A			0.504 g	100 mL	191160	09/17/14 11:41	TDP	TAL NSH
Total/NA	Analysis	6010C		1	0.504 g	100 mL	191568	09/18/14 13:14	DBK	TAL NSH
Total/NA	Prep	7471B			0.602 g	100 mL	191255	09/17/14 15:02	AAS	TAL NSH
Total/NA	Analysis	7471B		1	0.602 g	100 mL	191558	09/18/14 13:26	AAS	TAL NSH
Total/NA	Prep	9012B			1 g	50 mL	191554	09/18/14 13:57	MLV	TAL NSH
Total/NA	Analysis	9012B		1	1 g	50 mL	191636	09/18/14 17:01	TEM	TAL NSH
Total/NA	Analysis	Moisture		1			190593	09/15/14 10:28	RRS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8081B	Organochlorine Pesticides (GC)	SW846	TAL NSH
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
8151A	Herbicides (GC)	SW846	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL NSH
9012B	Cyanide, Total andor Amenable	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: KT Redevelopment LLC
Project/Site: Olean-Gateway Project BRG

TestAmerica Job ID: 490-61422-1

Laboratory: TestAmerica Nashville

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	11342	03-31-15

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3550C	Soil	PCB-1262
8082A	3550C	Soil	PCB-1268
8260C	5030C	Soil	1,1,2-Trichloro-1,2,2-trifluoroethane
8260C	5030C	Soil	Cyclohexane
8260C	5030C	Soil	Methyl acetate
8270D	3550C	Soil	1,1'-Biphenyl
8270D	3550C	Soil	Atrazine
8270D	3550C	Soil	Benzaldehyde
8270D	3550C	Soil	Caprolactam

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

Analysis Method	Prep Method	Matrix	Analyte
8260C	5030C	Soil	Methylcyclohexane
Moisture		Soil	Percent Solids

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-61422 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 9/13/2014 @ 0905

1. Tracking # 5985 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 3.5 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: (1) front → date, time or signature mdm

5. Were the seals intact, signed, and dated correctly? (YES)..(NO)..NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) mdm

7. Were custody seals on containers: YES (NO) and Intact YES...NO..(NA)

Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper (Other) None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES..(NO)..NA

b. Was there any observable headspace present in any VOA vial? YES...NO..(NA)

14. Was there a Trip Blank in this cooler? YES...NO..(NA) If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) mdm

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO..(NA)

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) mdm

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) mdm

I certify that I attached a label with the unique LIMS number to each container (intial) mdm

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 490
61422

9/22/2014

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
KT REDEVELOPMENT	MIKE LESAKOWSKI		175075
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2558 HAMBURG TURNPIKE	(716) 856-0635		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
BUFFALO / NY / 14218			
Project Name and Location (State)	**Carrier/Waybill Number**		
OLEAN SITE (NY)			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TCL-VOCs 8260	TCL-SVOCs 8270	TCL-PEST	TCL-HERB	TCL-PCBs	TAL-METALS	Special Instructions/ Conditions of Receipt: # OF JARS	
BRG-3	9/12/14	10:50				X	X						X	X	X	X	X	X	3	1
BRG-4		10:53				X	X						X	X	X	X	X	X	3	2
BRG-5		10:55				X	X						X	X	X	X	X	X	3	3
BRG-6		11:00				X	X						X	X	X	X	X	X	3	4
BRG-7		11:04				X	X						X	X	X	X	X	X	3	5
BRG-8		11:06				X	X						X	X	X	X	X	X	3	6
BRG-9		11:09				X	X						X	X	X	X	X	X	3	7
BRG-10		11:10				X	X						X	X	X	X	X	X	3	8
BRG-11		11:15				X	X						X	X	X	X	X	X	3	9
BRG-12		11:17				X	X						X	X	X	X	X	X	3	10
BRG-13		11:21				X	X						X	X	X	X	X	X	3	11
BRG-14		11:23				X	X						X	X	X	X	X	X	3	12

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Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STANDARD (5 DAYS)

QC Requirements (Specify) CAT B

	Date	Time		Date	Time
1. Relinquished By	9/12/14	11:54	1. Received By	9.13.14	0805
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

3.5c

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: KT Redevelopment LLC

Job Number: 490-61422-1

Login Number: 61422

List Source: TestAmerica Nashville

List Number: 1

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	False	Seals on cooler but date and time not filled out.
Sample custody seals, if present, are intact.	N/A	
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	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX I

Waste Manifest for UST Contents and Cleaning Fluids

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 585-436-5660	4. Waste Tracking Number 14-0399

5. Generator's Name and Mailing Address
SOLEPOXY, INC.
211 FRANKLIN ST.
OLEAN NY 14760
Generator's Phone: 716 244-2941

Att: MARK WENDEL

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: NEW YORK ENVIRONMENTAL TECHNOLOGIES, INC.
U.S. EPA ID Number: NYD986983229

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
INDUSTRIAL OIL TANK SERVICE CORP.
120 DRY RD.
ORISKANY NY 13204
Facility's Phone: 315 736.6080
U.S. EPA ID Number: NYR000005298

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	UN1202, Diesel fuel Mixture 3, PGIII	001	TT	125 ~~00300~~	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

a. ERG #128 Job #R6771 (Day)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: MARK WENPEL
Signature
Month 10 Day 14 Year 14

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kevin Mikel
Signature
Month 10 Day 14 Year 14

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Appendix J

UST Disposal/Recycling Documentation

BEN WEITSMAN OF ALLEGANY
34 WEST UNION ST
DMV FACILITY #7116742
WWW.UPSTATESHREDDING.COM
PHONE: (716)372-1042
FAX: (716)372-9038

Date	Invoice #
11/7/2014	280999

BEN WEITSMAN OF ALLEGANY

East Coast's Largest Privately Held Scrap Metal Processor

OPEN 7 DAYS A WEEK!

MONDAY - FRIDAY 6AM - 6:30PM
SATURDAY 7AM - 4PM
SUNDAY 7AM - 2PM

Customer

RICHARD PECK CONSTRUCTION
63 S. 7TH ST.
ALLEGANY, NY 14706

Rep
SD

Weight	Description	Price	Amount
12,720	STEEL - SHEARING - $211/GT	0.09419	1,198.10

I certify that I am 18 years of age or older and the legal owner of the material being sold.

Total $1198.10

Signature:_____

11/7/2014 9:36 AM