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Re: On-Site Soil Source Evaluation Report
Former Signore Facility (BCP Site #C905034)
Brownfield Cleanup Program
Ellicottville, New York

Dear Chad:

On behalf of Iskalo Ellicottville Holdings LLC (Iskalo), GZA GeoEnvironmental of New York (GZA) has prepared this report to provide results of the On-Site Soil Source Evaluation. GZA assessed soil located outside of the Signore BCP Site footprint, but within the Signore property limits (see Figure 1), for reuse as backfill during the upcoming soil excavation work that will remove additional impacted soils at the Signore BCP Site. It is estimated that approximately 3,200 cubic yards of soil may be needed for the upcoming soil removal and backfill project. Therefore, we assessed a 200 foot by 120 foot area to a depth of 4 feet (see Figure 1), or approximately 3,555 cubic yards of soil.

This work was completed in accordance with the sampling work plan[1] approved by the New York State Department of Environmental Conservation (NYSDEC) in a letter dated June 10, 2013.

PURPOSE

Soil located north of the Signore BCP Site footprint was assessed for reuse within the Signore BCP Site. The following sections describe the scope of work completed within the area shown on Figure 1 to provide analytical data that will satisfy NYSDEC Division of Remediation (DER) guidelines outlined in DER-10[2] Table 5.4(e)10 for soil reuse within a BCP Site. According to Table 5.4(e)10, the recommended number of soil samples for analysis to assess 3,500 cubic yards of soil is as follows.

- Thirteen (13) discrete soil samples for volatile organic compounds (VOCs) analysis; and

[1] "On-Site Soil Source for Reuse as Backfill, Former Signore Facility (C905034), Former Signore, Inc., Ellicottville, New York 14731" dated June 7, 2013.
[2] NYSDEC, Division of Remediation, DER-10/Technical Guidance for Site Investigation and Remediation, dated March 3, 2010.

- Five (5) composite soil samples for semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), metals and pesticides analysis.

SCOPE OF WORK

Grid Layout

Prior to soil probe sampling, the area proposed for use as a borrow source was measured in the field and marked out with stakes in a grid pattern consisting of 15 areas, each 40 feet by 40 feet. The total area marked out was 200 feet by 120 feet, and was assessed to a depth of 4 feet below ground surface (bgs). The grid was left in-place after the completion of the work.

Soil Probes

GZA completed 15 soil probes to 4 feet bgs within the 15 grid areas (one per grid area) to collect 13 discrete and five (5) composite soil samples to assess the soil conditions for reuse. The soil probes were completed from the approximate center of each grid area. The three (3) north-south orientated grid rows were labeled 1, 2 and 3 (from west to east) and the five (5) east-west orientated grid rows were labeled A through E (from south to north, see Figure 1).

The soil probes were completed using a Geoprobe® track-mounted rig. A 2-inch diameter by 48-inch long macro-core sampler was driven continuously at 48-inch intervals to retrieve the soil samples. Dedicated and disposable acetate sampler liners were used inside of the macro-core sampler between sample intervals. Representative portions of the recovered soils were placed in zip-lock bags for further classification and headspace analysis.

GZA prepared soil probe logs summarizing the general subsurface conditions observed at each probe location. These logs provide a summary description of the soils based on our visual observations of the recovered soil's color and composition. Soil probe logs are included as Appendix A.

Headspace Screening

A representative portion of each soil sample was placed in a zip-lock bag following initial field screening after the acetate sample liner was opened. The headspace in the zip-lock bag of each sample was screened for total organic vapors using an organic vapor meter (OVM) equipped with a photoionization detector with a 10.6 eV ultraviolet lamp. The OVM used was a MiniRae 3000 and was calibrated in accordance with manufacturer's recommendations. A gas standard of isobutylene at a concentration of 100 parts per million (ppm) was used for calibration. Ambient air at the Site was used to establish background organic vapor concentrations.

Organic vapors were not detected at the 15 soil probe locations. Headspace results were recorded on the probe logs included in Appendix B.

ANALYTICAL LABORATORY TESTING

The sampling frequencies required for approximately 3,500 cubic yards of soil, according to DER-10 Table 5.4(e)10, is 13 discrete VOCs samples and five (5) composite samples for SVOCs, inorganics, and pesticides. The selected samples were packed in an ice-filled cooler and sent to Spectrum Analytical in North Kingstown, Rhode Island. Typical chain-of-custody procedures were followed. Table 1 is a summary of the analytical samples collected by GZA as part of this work and the analyses completed.

The VOC samples collected for analysis were from discrete soil samples (from specific depths shown on Table 1) from ground surface to 4 feet bgs and were not composited from the sample interval. As the OVM readings were non-detect in the soil samples field screened, the VOC samples were collected from various depths to provide depth distribution across the sampling locations. Table 1 is a summary of the samples collected for analysis.

The 5 composite samples were collected, one from each of the five (5) grid area rows, orientated in the east-west direction. Therefore, representative soil from 0 to 4 feet bgs from A-1, A-2, and A-3 were composited to make Comp-A sample. The procedure was used from rows B through E as well. Representative soil from 0 to 4 feet bgs at each of the three (3) probes in an east-west orientated row were placed in a pre-cleaned stainless steel bowl and mixed to generate one (1) composite sample.

SUBSURFACE CONDITIONS

Soil

The subsurface conditions encountered at 15 soil probes generally consisted of topsoil overlying brown silty clay with less and varying amounts of gravel. At eleven (11) of the 15 soil probes locations (i.e., A-3, B-1, B-2, C-1, C-2, C-3, D-1, D-2, E-1, E-2, E-3), brown sand and gravel with less and varying amounts of silt and clay was encountered below the brown silty clay.

Groundwater

Groundwater was not encountered in the 15 soil probes completed to assess the soil.

ANALYTICAL TEST RESULTS

Findings of the laboratory testing of the soil samples analyzed are presented below. The analytical laboratory report for the work completed by GZA is provided in Appendix B. The analytical results for the soil samples collected are summarized on Table 2.

The analytical test results for the soil samples were compared to 6 New York Code Rules and Regulation Part 375 Environmental Remediation Programs, Subparts 375-12 to 375-4 & 375-6, effective December 14, 2006 (Part 375). Specifically, the Part 375 Restricted

Residential Soil Cleanup Objectives (RRSCOs) and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) were used for comparative purposes.

Volatile Organic Compounds:

VOCs were not detected above method detection limits in the 13 soil samples analyzed.

Semi-Volatile Organic Compounds:

One SVOC, bis(2-ethylhexyl)phalate (100 parts per billion (ppb)) was the only compound detected above method detection limits in the five (5) soil samples analyzed (see Table 2). This compound does not have a Part 375 SCO. No other SVOCs were detected in the other four (4) samples analyzed.

Polychlorinated biphenyls (PCBs):

PCBs were not detected above method detection limits in the five (5) samples analyzed.

Pesticides:

Pesticides were not detected above method detection limits in the five (5) soil analyzed.

Metals:

Twenty-two (22) different metal analytes were detected above method detection limits in the five (5) soil samples analyzed (see Table 2). Arsenic was the only analyte which slightly exceeded its respective RRSCO (16 ppm) and PGWSCO (16 ppm) in two (2) composite samples, Comp-C (17 ppm) and Comp-D (17 ppm).

Metals were not detected above the Unrestricted, RRSCO or PGWSCOs in the other three (3) composite samples analyzed.

CONCLUSIONS

GZA has evaluated the analytical data generated by our soil investigation. No VOCs, SVOCs, PCBs or pesticides were detected at concentrations above the Part 375 Unrestricted, RRSCO or PWG SCOs.

The results of the five (5) TAL metal samples were below the Unrestricted, RRSCO and PGW SCO with the exception of one (1) analyte in two (2) composite samples. Arsenic was detected in samples Comp-C and Comp-D at a concentration of 17 ppm in both samples, which exceeds its RRSCO and PGWSCO value of 16 ppm. The remaining analytes detected were below their respective Unrestricted SCOs, RRSCOs and PGWSCOs.

GZA recommends that this soil be allowed for use as backfill within the Signore BCP Site during upcoming Interim Remedial Measure activities. It is our opinion that the soil is acceptable for reuse since the detected concentration of arsenic in two (2) samples (i.e., Comp-C and Comp-D) is only 1 ppm above (same order of magnitude), its respective RRSCO and PGWSCO. Arsenic is not a compound of concern at the Site. Review of the concentrations of the metal analytes detected in the five (5) composite samples, including arsenic, indicate consistent concentrations among the five (5) samples and the concentrations of arsenic detected are likely representative of background concentrations.

If you need additional information or would like to discuss the project, please contact Chris Boron (GZA Project Manager) at (716) 844-7046.

Respectfully,

GZA GEOENVIRONMENTAL OF NEW YORK

Christopher Boron
Senior Project Manager

Bart A. Klettke, P.E.
Principal

Attachments
Figure 1 – Soil Probe Figure
Table 1 – GZA Analytical Summary Table
Table 2 – GZA Sample Results Summary
Appendix A – Soil Probe Logs
Appendix B – Laboratory Report

cc: Matt Roland (Iskalo Development Corp., electronic copy only)

FIGURE

NORTH

AREA OF CONCERN-3

SOIL CONTAMINATION REMAINING FROM AOC-2

APPROXIMATE LIMITS OF SIGNORE BCP BROWNFIELD CLEANUP AREA

APPROXIMATE LOCATION OF CLOSED-IN-PLACE SEPTIC TANK

SP-49 SP-48 SP-47 SP-46 SP-50

SP-30 SP-31 SP-32 SP-33 SP-34 SP-35 SP-36 SP-37 SP-38 SP-39 SP-40 SP-41 SP-42 SP-43 SP-44 SP-45

TP-9 TP-10 TP-11 TP-12 TP-13 TP-14 TP-15 TP-16 TP-17 TP-18

SS-1 SS-2 SS-3 SS-4

Former Septic Tank Area

Former Septic Tank (Closure 2-91)

Former Septic Tank (Closure 2-91)

SIGNORE PLANT LAYOUT

A-1 B-1 C-1 D-1 E-1
A-2 B-2 C-2 D-2 E-2
A-3 B-3 C-3 D-3 E-3

CENTER OF ROAD

LEGEND:

A-1	APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE COMPLETED JUNE 13, 2013
SP-46	APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE
SP-32	APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE WITH 1" MICROWELL INSTALLED
TP-9	APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT
TP-11	APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT WITH 1" MICROWELL INSTALLED
SS-3	APPROXIMATE LOCATION AND DESIGNATION OF SURFACE SOIL SAMPLE

NOTES:

1. BASE MAP ADAPTED FROM A 2006 AERIAL PHOTOGRAPH DOWNLOADED FROM www.cattco.org/real_property/parcel_news.asp AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

DRAWN BY: DEW

DATE: JUNE 2013

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET
0 40 80 160

ONSITE BORROW SOURCE EXCAVATION
FORMER SIGNORE FACILITY
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM
SITE NO. C905034

SOIL PROBE PLAN

PROJECT No.
21.0056367.50

FIGURE No.
1

TABLES

Table 1
Analytical Testing Program Summary
On-Site Soil Borrow Source Evaluation
Former Signore Facility
Brownfield Cleanup Program
Ellicottville, New York

Sample	Location	Sample Depth (ft bgs)	Date Collected	VOCs TCL EPA Method 8260B	SVOCs EPA Method 8270C BN	TAL Metals Method SW 846 3050/6010/7471	PCBs Method 8082	Pesticides Method 8081B
Subsurface Soil Samples								
A-1-3-061313	A-1	3	6/13/2013	X				
A-2-2-061313	A-2	2	6/13/2013	X				
A-3-1-061313	A-3	1	6/13/2013	X				
Comp-A-061313	Composite	0 to 4	6/13/2013		X	X	X	X
B-1-4-061313	B-1	4	6/13/2013	X				
B-2-1-061313	B-2	1	6/13/2013	X				
Comp-B-061313	Composite	0 to 4	6/13/2013		X	X	X	X
C-1-2-061313	C-1	2	6/13/2013	X				
C-2-3-061313	C-2	3	6/13/2013	X				
C-3-2-061313	C-3	2	6/13/2013	X				
Comp-C-061313	Composite	0 to 4	6/13/2013		X	X	X	X
D-1-1-061313	D-1	1	6/13/2013	X				
D-3-4-061313	D-2	4	6/13/2013	X				
Comp-D-061313	Composite	0 to 4	6/13/2013		X	X	X	X
E-1-3-061313	E-1	3	6/13/2013	X				
E-2-4-061313	E-2	4	6/13/2013	X				
E-3-2-061313	E-3	2	6/13/2013	X				
Comp-E-061313	Composite	0 to 4	6/13/2013		X	X	X	X

Notes:
1. NA = not applicable.
2. ft bgs = feet below ground surface
3. VOCs = Volatile Organic Compounds
4. SVOCs = Semi-Volatile Organic Compounds
5. TCL = Total Compound List
6. TAL = Total Analyte List

Table 2
Summary of Soil Sample Analytical Results
On-site Borrow Source Evaluation
Former Signore Facility
Brownfield Cleanup Program
Ellicottville, New York

Sample Location	Part 375	Part 375	Part 375	A-1		A-2		A-3		Comp-A		B-1		B-2		Comp-B		C-1		C-2		C-3		Comp-C		D-1		D-3		Comp-D		E-1		E-2		E-3		Comp-E	
Sample Depth (ft bgs)	Unrestricted SCOs	Restricted	Protection of	3		2		1				4		1				2		3		2				1		4				3		4		2			
Sample Date		Residential SCOs	Groundwater SCOs	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q
Volatile Organics (ug/kg)																																							
Dichlorodifluoromethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				< 5.9		< 6.1				< 5.9		< 6.5		< 6.4			
Chloromethane	NV	**NV**	**NV**	< 6.2		< 6.7		<6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Vinyl chloride		**900**	**20**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Bromomethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Chloroethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Trichlorofluoromethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,1-Dichloroethene		**100,000**	**330**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Acetone		**100,000**	**50**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Iodomethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Carbon disulfide	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Methylene chloride		**100,000**	**50**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
trans-1,2-Dichloroethene		**100,000**	**190**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Methyl tert-butyl ether		**100,000**	**930**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,1-Dichloroethane		**26,000**	**270**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Vinyl acetate	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
2-Butanone		**100,000**	**120**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
cis-1,2-Dichloroethene		**100,000**	**250**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
2,2-Dichloropropane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Bromochloromethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Chloroform		**49,000**	**370**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,1,1-Trichloroethane		**100,000**	**680**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,1-Dichloropropene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Carbon tetrachloride		**2,400**	**760**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,2-Dichloroethane		**3,100**	**20**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Benzene		**4,800**	**60**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Trichloroethene		**21,000**	**470**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,2-Dichloropropane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Dibromomethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Bromodichloromethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
cis-1,3-Dichloropropene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
4-Methyl-2-pentanone	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Toluene		**100,000**	**700**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
trans-1,3-Dichloropropene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,1,2-Trichloroethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,3-Dichloropropane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Tetrachloroethene		**21,000**	**470**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
2-Hexanone	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Dibromochloromethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,2-Dibromoethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Chlorobenzene		**100,000**	**1,100**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,1,1,2-Tetrachloroethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Ethylbenzene		**41,000**	**1,000**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
m,p-Xylene	See Total Xylene	**See Total Xylene**	**See Total Xylene**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
o-Xylene	See Total Xylene	**See Total Xylene**	**See Total Xylene**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Xylene (Total)		**100,000**	**1,600**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Styrene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Bromoform	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Isopropylbenzene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,1,2,2-Tetrachloroethane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Bromobenzene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,2,3-Trichloropropane	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
n-Propylbenzene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
2-Chlorotoluene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,3,5-Trimethylbenzene		**52,000**	**8,400**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
4-Chlorotoluene	**NV**	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
tert-Butylbenzene		**100,000**	**12,000**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,2,4-Trimethylbenzene		**52,000**	**3,600**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
sec-Butylbenzene		**100,000**	**11,000**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
4-Isopropyltoluene	**NV**	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,3-Dichlorobenzene		**49,000**	**2,400**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,4-Dichlorobenzene		**13,000**	**1,800**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
n-Butylbenzene		**100,000**	**5,900**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,2-Dichlorobenzene		**100,000**	**1,100**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,2-Dibromo-3-chloropropan	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,2,4-Trichlorobenzene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Hexachlorobutadiene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
1,2,3-Trichlorobenzene	NV	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
Naphthalene	**NV**	**NV**	**NV**	< 6.2		< 6.7		< 6.0				< 6.1		< 6.0				< 6.3		< 6.6		< 6.5				<5.9		< 6.1				<5.9		<6.5		<6.4			
PCB (ug/kg)																																							
Aroclor-1016	NV	NV	NV							< 42						< 41								< 39				< 42								< 39			
Aroclor-1221	NV	NV	NV							< 42						< 41								<39				< 42								<39			
Aroclor-1232	NV	NV	NV							< 42						< 41								<39				< 42								<39			
Aroclor-1242	NV	NV	NV							< 42						< 41								<39				< 42								<39			
Aroclor-1248	NV	NV	NV							< 42						< 41								<39				< 42								<39			
Aroclor-1254	NV	NV	NV							< 42						< 41								<39				< 42								<39			
Aroclor-1260	NV	NV	NV							< 42						< 41								<39				< 42								<39			
Total PCBs	**100**	**1,000**	**3,200**							< 42						< 41								< 39				< 42								< 39			
Pesticides (ug/kg)																																							
alpha-BHC		**97**	**20**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
beta-BHC		**72**	**90**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
delta-BHC		**100,000**	**250**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
gamma-BHC (Lindane)		**1,300**	**100**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
Heptachlor		**2,100**	**380**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
Aldrin		**97**	**190**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
Heptachlor epoxide	NV	**NV**	**NV**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
Endosulfan I		**24,000**	**102,000**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
Dieldrin		**200**	**100**							< 4.2						< 4.1								< 3.9				< 4.2								< 3.9			
4,4´-DDE		**8,900**	**17,000**							< 4.2						< 4.1								< 3.9				< 4.2								< 3.9			
Endrin		**11,000**	**60**							< 4.2						< 4.1								< 3.9				< 4.2								< 3.9			
Endosulfan II		**24,000**	**102,000**							< 4.2						< 4.1								< 3.9				< 4.2								< 3.9			
4,4´-DDD		**13,000**	**14,000**							< 4.2						< 4.1								< 3.9				< 4.2								< 3.9			
Endosulfan sulfate		**24,000**	**1,000,000**							< 4.2						< 4.1								< 3.9				< 4.2								< 3.9			
4,4´-DDT		**7,900**	**136,000**							< 4.2						< 4.1								< 3.9				< 4.2								< 3.9			
Methoxychlor	NV	**NV**	**NV**							< 21						< 21								< 20				< 21								< 20			
Endrin ketone	NV	**NV**	**NV**							< 4.2						< 4.1								< 3.9				< 4.2								< 3.9			
Endrin aldehyde	NV	**NV**	**NV**							< 4.2						< 4.1								< 3.9				< 4.2								< 3.9			
alpha-Chlordane		**4,200**	**2,900**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
gamma-Chlordane	**NV**	**NV**	**NV**							< 2.1						< 2.1								< 2.0				< 2.1								< 2.0			
Toxaphene	**NV**	**NV**	**NV**							< 210						< 210								< 200				< 210								< 200			

NOTES:

1. Results starting with < indicates compound was not detected above the reporting limit provided.
2. Black shading indicates that the analytical testing for that sample did not include those compounds.
3. **Black bold** results indicates compound was detected a concentration above the Part 357 Restricted Residential Soil Cleanup Objective.
4. Gray shaded results indicates compound was detected a concentration above the Part 357 Protection of Groundwater Soil Cleanup Objective.
5. Analytical testing completed by Spectrum Analytical Inc.
6. Q = laboratory qualifier. See Appendix B for qualifier definitions.
7. ug/kg = parts per billion, mg/kg = parts per million.
8. Part 375 Residential Soil Cleanup Objectives (SCOs) are from NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006.
9. NV = no value; NS = not specificed in Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives.

Table 2
Summary of Soil Sample Analytical Results
On-site Borrow Source Evaluation
Former Signore Facility
Brownfield Cleanup Program
Ellicottville, New York

Sample Location	Part 375	Part 375	Part 375	A-1		A-2		A-3		Comp-A		B-1		B-2		Comp-B		C-1		C-2		C-3		Comp-C		D-1		D-3		Comp-D		E-1		E-2		E-3		Comp-E	
Sample Depth (ft bgs)	Unrestricted SCOs	Restricted	Protection of	3		2		1				4		1				2		3		2				1		4				3		4		2			
Sample Date		Residential SCOs	Groundwater SCOs	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q	6/13/2013	Q
Semi-Volatile Organics (ug/kg)																																							
Phenol		**100,000**	**330**							< 410						< 410								< 390						< 410								< 390	
Bis(2-chloroethyl)ether	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2-Chlorophenol	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
1,3-Dichlorobenzene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
1,4-Dichlorobenzene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
1,2-Dichlorobenzene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2-Methylphenol	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2,2´-oxybis(1-Chloropropane)	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
4-Methylphenol	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
N-Nitroso-di-n-propylamine	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Hexachloroethane	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Nitrobenzene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Isophorone	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2-Nitrophenol	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2,4-Dimethylphenol	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2,4-Dichlorophenol	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
1,2,4-Trichlorobenzene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Naphthalene		**100,000**	**12,000**							< 410						< 410								< 390						< 410								< 390	
4-Chloroaniline	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Bis(2-chloroethoxy)methane	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Hexachlorobutadiene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
4-Chloro-3-methylphenol	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2-Methylnaphthalene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Hexachlorocyclopentadiene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2,4,6-Trichlorophenol	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2,4,5-Trichlorophenol	NV	**NV**	**NV**							< 840						< 820								< 790						< 840								< 790	
2-Chloronaphthalene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2-Nitroaniline	NV	**NV**	**NV**							< 840						< 820								< 790						< 840								< 790	
Dimethylphthalate	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Acenaphthylene		**100,000**	**107,000**							< 410						< 410								< 390						< 410								< 390	
2,6-Dinitrotoluene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
3-Nitroaniline	NV	**NV**	**NV**							< 840						< 820								< 790						< 840								< 790	
Acenaphthene		**100,000**	**98,000**							< 410						< 410								< 390						< 410								< 390	
2,4-Dinitrophenol	NV	**NV**	**NV**							<840						<820								< 790						<840								< 790	
4-Nitrophenol	NV	**NV**	**NV**							<840						<820								< 790						<840								< 790	
Dibenzofuran	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
2,4-Dinitrotoluene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Diethylphthalate	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
4-Chlorophenyl-phenylether	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Fluorene		**100,000**	**386,000**							<410						<410								< 390						<410								< 390	
4-Nitroaniline	NV	**NV**	**NV**							< 840						< 820								< 790						< 840								< 790	
4,6-Dinitro-2-methylphenol	NV	**NV**	**NV**							< 840						< 820								< 790						< 840								< 790	
N-Nitrosodiphenylamine	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
4-Bromophenyl-phenylether	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Hexachlorobenzene	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Pentachlorophenol	NV	**NV**	**NV**							< 840						< 820								< 790						< 840								< 790	
Phenanthrene		**100,000**	**1,000,000**							< 410						< 410								< 390						< 410								< 390	
Anthracene		**100,000**	**1,000,000**							< 410						< 410								< 390						< 410								< 390	
Carbazole	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Di-n-butylphthalate	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Fluoranthene		**100,000**	**1,000,000**							< 410						< 410								< 390						< 410								< 390	
Pyrene		**100,000**	**1,000,000**							< 410						< 410								< 390						< 410								< 390	
Butylbenzylphthalate	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
3,3´-Dichlorobenzidine	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Benzo(a)anthracene		**1,000**	**1,000**							< 410						< 410								< 390						< 410								< 390	
Chrysene		**3,900**	**1,000**							< 410						< 410								< 390						< 410								< 390	
Bis(2-ethylhexyl)phthalate	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								100	J
Di-n-octylphthalate	NV	**NV**	**NV**							< 410						< 410								< 390						< 410								< 390	
Benzo(b)fluoranthene		**1,000**	**1,700**							< 410						< 410								< 390						< 410								< 390	
Benzo(k)fluoranthene		**3,900**	**1,700**							< 410						< 410								< 390						< 410								< 390	
Benzo(a)pyrene		**1,000**	**22,000**							< 410						< 410								< 390						< 410								< 390	
Indeno(1,2,3-cd)pyrene		**500**	**8,200**							< 410						< 410								< 390						< 410								< 390	
Dibenzo(a,h)anthracene		**330**	**1,000**							< 410						< 410								< 390						< 410								< 390	
Benzo(g,h,i)perylene		**100,000**	**1,000,000**							< 410						< 410								< 390						< 410								< 390	
Inorganics (mg/kg)																																							
Aluminum	**NV**	**NV**	**NV**							19,000	B					17,000	B							17,000	B					18,000	B							17,000	B
Antimony	**NV**	**NV**	**NV**							< 1.1						< 0.76								< 0.92						< 0.87								< 0.85	
Arsenic	**13**	**16**	**16**							16						15								**17**						**17**								15	
Barium	**350**	**400**	**820**							240						250								280						270								260	
Beryllium	**7.2**	**72**	**47**							0.87						0.81								0.8						0.86								0.75	
Cadmium	**2.5**	**4.3**	**7.5**							< 0.28						0.1	J							0.16	J					0.082	J							0.11	J
Calcium	**NV**	**NV**	**NV**							2,600						2,200								2,600						2,500								2,000	
Chromium	**30**	**180**	**NS**							21						19								18						19								18	
Cobalt	**NV**	**NV**	**NV**							15						14								14						15								14	
Copper	**50**	**270**	**1,720**							17						18								19						21								21	
Iron	**NV**	**NV**	**NV**							32,000						33,000								31,000						35,000								33,000	
Lead	**63**	**400**	**450**							19						18								23						21								21	
Magnesium	**NV**	**NV**	**NV**							2,900						3,800								3,600						4,100								3,700	
Manganese	**1,600**	**2,000**	**2,000**							870						810								1,300						950								980	
Mercury	**0.18**	**0.81**	**0.73**							0.044	J					0.048	J							0.052						0.044	J							0.044	
Nickel	**30**	**180**	**130**							27						27								25						27								25	
Potassium	**NV**	**NV**	**NV**							1,300						1,100								1,300						1,200								1,100	
Selenium	**3.9**	**180**	**4**							0.9	J					< 1.1								0.93	J					0.83	J							< 1.3	
Silver	**2**	**180**	**8**							0.15	BJ					0.12	BJ							0.2	BJ					0.13	BJ							0.17	BJ
Sodium	**NV**	**NV**	**NV**							14	J					14	J							13	J					14	J							13	J
Thallium	**NV**	**NV**	**NV**							< 1.1						< 0.76								0.29	J					< 0.87								0.25	J
Vanadium	**NV**	**NV**	**NV**							21						19								19						21								19	
Zinc	**109**	**10,000**	**2,480**							87						80								88						85								84	

NOTES:

1. Results starting with < indicates compound was not detected above the reporting limit provided.
2. Black shading indicates that the analytical testing for that sample did not include those compounds.
3. **Black bold** results indicates compound was detected a concentration above the Part 357 Restricted Residential Soil Cleanup Objective.
4. Gray shaded results indicates compound was detected a concentration above the Part 357 Protection of Groundwater Soil Cleanup Objective.
5. Analytical testing completed by Spectrum Analytical Inc.
6. Q = laboratory qualifier. See Appendix B for qualifier definitions.
7. ug/kg = parts per billion, mg/kg = parts per million.
8. Part 375 Residential Soil Cleanup Objectives (SCOs) are from NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006.
9. NV = no value; NS = not specificed in Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives.

APPENDIX A

CONTRACTOR	Matrix Environmental Technologies	BORING LOCATION	See Location Plan
DRILLER	Mark Janus	GROUND SURFACE ELEVATION	NA DATUM None
START DATE 6/13/2013	END DATE 6-13-2013	GZA GEOENVIRONMENTAL REPRESENTATIVE	Tom Bohlen

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe Rig 540 UD
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0 - 2	80	TOPSOIL (2 inches)		0
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APPENDIX B

Report Date:
01-Jul-13 13:08

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

GZA GeoEnvironmental of NY Buffalo
535 Washington Street, 11th Floor
Buffalo, NY 14203

Work Order: M0975
Project : Former Signore Facility
Project #:

Attn: Chris Boron

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M0975-01	A-1-3-061313	Soil	13-Jun-13 09:15	14-Jun-13 10:45
M0975-02	A-2-2-061313	Soil	13-Jun-13 09:30	14-Jun-13 10:45
M0975-03	A-3-1-061313	Soil	13-Jun-13 09:35	14-Jun-13 10:45
M0975-04	COMP-A-061313	Soil	13-Jun-13 09:45	14-Jun-13 10:45
M0975-05	B-1-4-061313	Soil	13-Jun-13 09:50	14-Jun-13 10:45
M0975-06	B-2-1-061313	Soil	13-Jun-13 09:55	14-Jun-13 10:45
M0975-07	COMP-B-061313	Soil	13-Jun-13 10:05	14-Jun-13 10:45
M0975-08	C-1-2-061313	Soil	13-Jun-13 10:15	14-Jun-13 10:45
M0975-09	C-2-3-061313	Soil	13-Jun-13 10:20	14-Jun-13 10:45
M0975-10	C-3-2-061313	Soil	13-Jun-13 10:25	14-Jun-13 10:45
M0975-11	COMP-C-061313	Soil	13-Jun-13 10:30	14-Jun-13 10:45
M0975-12	D-1-1-061313	Soil	13-Jun-13 10:35	14-Jun-13 10:45
M0975-13	D-3-4-061313	Soil	13-Jun-13 10:40	14-Jun-13 10:45
M0975-14	COMP-D-061313	Soil	13-Jun-13 10:45	14-Jun-13 10:45
M0975-15	E-1-3-061313	Soil	13-Jun-13 11:10	14-Jun-13 10:45
M0975-16	E-2-4-061313	Soil	13-Jun-13 11:15	14-Jun-13 10:45
M0975-17	E-3-2-061313	Soil	13-Jun-13 11:20	14-Jun-13 10:45
M0975-18	COMP-E-061313	Soil	13-Jun-13 11:25	14-Jun-13 10:45

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
North Carolina	581
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 : Former Signore Facility **SDG :** M0975

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
A-1-3-061313	M0975-01	SW8260_LOW_S				
A-2-2-061313	M0975-02	SW8260_LOW_S				
A-3-1-061313	M0975-03	SW8260_LOW_S				
COMP-A-061313	M0975-04		SW8270_S	SW8081_S	SW6010_S	
COMP-A-061313	M0975-04			SW8082_S	SW7471	
B-1-4-061313	M0975-05	SW8260_LOW_S				
B-2-1-061313	M0975-06	SW8260_LOW_S				
COMP-B-061313	M0975-07		SW8270_S	SW8081_S	SW6010_S	
COMP-B-061313	M0975-07			SW8082_S	SW7471	
C-1-2-061313	M0975-08	SW8260_LOW_S				
C-2-3-061313	M0975-09	SW8260_LOW_S				
C-3-2-061313	M0975-10	SW8260_LOW_S				
COMP-C-061313	M0975-11		SW8270_S	SW8081_S	SW6010_S	
COMP-C-061313	M0975-11			SW8082_S	SW7471	
D-1-1-061313	M0975-12	SW8260_LOW_S				
D-3-4-061313	M0975-13	SW8260_LOW_S				
COMP-D-061313	M0975-14		SW8270_S	SW8081_S	SW6010_S	
COMP-D-061313	M0975-14			SW8082_S	SW7471	
E-1-3-061313	M0975-15	SW8260_LOW_S				
E-2-4-061313	M0975-16	SW8260_LOW_S				
E-3-2-061313	M0975-17	SW8260_LOW_S				
COMP-E-061313	M0975-18		SW8270_S	SW8081_S	SW6010_S	
COMP-E-061313	M0975-18			SW8082_S	SW7471	

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

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

Project Name : Former Signore Facility **SDG :** M0975

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8270_S					
M0975-04A	SL	6/13/2013	6/14/2013	6/24/2013	6/25/2013
M0975-07A	SL	6/13/2013	6/14/2013	6/24/2013	6/25/2013
M0975-11A	SL	6/13/2013	6/14/2013	6/24/2013	6/25/2013
M0975-14A	SL	6/13/2013	6/14/2013	6/24/2013	6/25/2013
M0975-18A	SL	6/13/2013	6/14/2013	6/24/2013	6/25/2013

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

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

Project Name : Former Signore Facility **SDG :** M0975

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8081_S					
M0975-04A	SL	6/13/2013	6/14/2013	6/18/2013	6/20/2013
M0975-07A	SL	6/13/2013	6/14/2013	6/18/2013	6/20/2013
M0975-11A	SL	6/13/2013	6/14/2013	6/18/2013	6/20/2013
M0975-14A	SL	6/13/2013	6/14/2013	6/18/2013	6/20/2013
M0975-18A	SL	6/13/2013	6/14/2013	6/18/2013	6/20/2013
SW8082_S					
M0975-04A	SL	6/13/2013	6/14/2013	6/18/2013	6/19/2013
M0975-07A	SL	6/13/2013	6/14/2013	6/18/2013	6/19/2013
M0975-11A	SL	6/13/2013	6/14/2013	6/18/2013	6/19/2013
M0975-14A	SL	6/13/2013	6/14/2013	6/18/2013	6/19/2013
M0975-18A	SL	6/13/2013	6/14/2013	6/18/2013	6/19/2013

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

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

Project Name : Former Signore Facility **SDG :** M0975

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_LOW_S					
M0975-01A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-02A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-03A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-05A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-06A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-08A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-09A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-10A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-12A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-13A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-15A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-16A	SL	6/13/2013	6/14/2013	NA	6/20/2013
M0975-17A	SL	6/13/2013	6/14/2013	NA	6/20/2013

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

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

Project Name : Former Signore Facility **SDG :** M0975

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_LOW_S					
M0975-01A	SL	SW8260_LOW_S	NA	LOW	1
M0975-02A	SL	SW8260_LOW_S	NA	LOW	1
M0975-03A	SL	SW8260_LOW_S	NA	LOW	1
M0975-05A	SL	SW8260_LOW_S	NA	LOW	1
M0975-06A	SL	SW8260_LOW_S	NA	LOW	1
M0975-08A	SL	SW8260_LOW_S	NA	LOW	1
M0975-09A	SL	SW8260_LOW_S	NA	LOW	1
M0975-10A	SL	SW8260_LOW_S	NA	LOW	1
M0975-12A	SL	SW8260_LOW_S	NA	LOW	1
M0975-13A	SL	SW8260_LOW_S	NA	LOW	1
M0975-15A	SL	SW8260_LOW_S	NA	LOW	1
M0975-16A	SL	SW8260_LOW_S	NA	LOW	1
M0975-17A	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 : Former Signore Facility **SDG :** M0975

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8270_S					
M0975-04A	SL	SW8270_S	3550B	NA	1
M0975-07A	SL	SW8270_S	3550B	NA	1
M0975-11A	SL	SW8270_S	3550B	NA	1
M0975-14A	SL	SW8270_S	3550B	NA	1
M0975-18A	SL	SW8270_S	3550B	NA	1

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

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

Project Name : Former Signore Facility **SDG :** M0975

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8081_S					
M0975-04A	SL	SW8081_S	3550B	Sulfur	1
M0975-07A	SL	SW8081_S	3550B	Sulfur	1
M0975-11A	SL	SW8081_S	3550B	Sulfur	1
M0975-14A	SL	SW8081_S	3550B	Sulfur	1
M0975-18A	SL	SW8081_S	3550B	Sulfur	1
SW8082_S					
M0975-04A	SL	SW8082_S	3550B	Acid/Sulfur	1
M0975-07A	SL	SW8082_S	3550B	Acid/Sulfur	1
M0975-11A	SL	SW8082_S	3550B	Acid/Sulfur	1
M0975-14A	SL	SW8082_S	3550B	Acid/Sulfur	1
M0975-18A	SL	SW8082_S	3550B	Acid/Sulfur	1

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

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

Project Name : Former Signore Facility **SDG :** M0975

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_S				
M0975-04A	SL	SW6010_S	6/14/2013	6/21/2013
M0975-07A	SL	SW6010_S	6/14/2013	6/21/2013
M0975-11A	SL	SW6010_S	6/14/2013	6/21/2013
M0975-14A	SL	SW6010_S	6/14/2013	6/21/2013
M0975-18A	SL	SW6010_S	6/14/2013	6/21/2013
M0975-18ADUP	SL	SW6010_S	6/14/2013	6/21/2013
M0975-18AMS	SL	SW6010_S	6/14/2013	6/21/2013
SW7471				
M0975-04A	SL	SW7471	6/14/2013	6/18/2013
M0975-07A	SL	SW7471	6/14/2013	6/18/2013
M0975-11A	SL	SW7471	6/14/2013	6/18/2013
M0975-14A	SL	SW7471	6/14/2013	6/18/2013
M0975-18A	SL	SW7471	6/14/2013	6/18/2013

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

WorkOrder: M0975

Client ID: GZA_BUFFALO
Project: Former Signore Facility
WO Name: Former Signore Facility
Location: GZA_SINGNORE,

Case:
SDG:
PO: 21.0056491.00

HC Due: 06/26/13
Fax Due: 06/21/13
Fax Report: ☑

Report Level: ASP-B
Special Program:
EDD: CLF
EQUIIS_4_NYSDEC

Comments: CC pdf and EDD to John Beninati (john.beninati@gza.com). No charge for Trip Blank.

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
M0975-01A	A-1-3-061313	06/13/2013 09:15	06/14/2013	Soil	PMoist	/					VOA
M0975-01A	A-1-3-061313	06/13/2013 09:15	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-01A	A-1-3-061313	06/13/2013 09:15	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-02A	A-2-2-061313	06/13/2013 09:30	06/14/2013	Soil	PMoist	/					VOA
M0975-02A	A-2-2-061313	06/13/2013 09:30	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-02A	A-2-2-061313	06/13/2013 09:30	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-03A	A-3-1-061313	06/13/2013 09:35	06/14/2013	Soil	PMoist	/					VOA
M0975-03A	A-3-1-061313	06/13/2013 09:35	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-03A	A-3-1-061313	06/13/2013 09:35	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-04A	COMP-A-061313	06/13/2013 09:45	06/14/2013	Soil	PMoist	/					A1
M0975-04A	COMP-A-061313	06/13/2013 09:45	06/14/2013	Soil	SW6010_S	/ TAL				Y	A1
M0975-04A	COMP-A-061313	06/13/2013 09:45	06/14/2013	Soil	SW7471	/ TAL					A1
M0975-04A	COMP-A-061313	06/13/2013 09:45	06/14/2013	Soil	SW8081_S	/					A1
M0975-04A	COMP-A-061313	06/13/2013 09:45	06/14/2013	Soil	SW8082_S	/					A1
M0975-04A	COMP-A-061313	06/13/2013 09:45	06/14/2013	Soil	SW8270_S	/					A1
M0975-05A	B-1-4-061313	06/13/2013 09:50	06/14/2013	Soil	PMoist	/					VOA
M0975-05A	B-1-4-061313	06/13/2013 09:50	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-05A	B-1-4-061313	06/13/2013 09:50	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-06A	B-2-1-061313	06/13/2013 09:55	06/14/2013	Soil	PMoist	/					VOA
M0975-06A	B-2-1-061313	06/13/2013 09:55	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-06A	B-2-1-061313	06/13/2013 09:55	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-07A	COMP-B-061313	06/13/2013 10:05	06/14/2013	Soil	PMoist	/					A1
M0975-07A	COMP-B-061313	06/13/2013 10:05	06/14/2013	Soil	SW6010_S	/ TAL				Y	A1

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: Veronica E Brizard

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

WorkOrder: M0975

Client ID: GZA_BUFFALO
Project: Former Signore Facility
WO Name: Former Signore Facility
Location: GZA_SINGNORE,

Case:
SDG:
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Fax Due: 06/21/13
Fax Report: ☑

Report Level: ASP-B
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EDD: CLF
EQUIIS_4_NYSDEC

Comments: CC pdf and EDD to John Beninati (john.beninati@gza.com). No charge for Trip Blank.

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
M0975-07A	COMP-B-061313	06/13/2013 10:05	06/14/2013	Soil	SW7471	/ TAL					A1
M0975-07A	COMP-B-061313	06/13/2013 10:05	06/14/2013	Soil	SW8081_S	/					A1
M0975-07A	COMP-B-061313	06/13/2013 10:05	06/14/2013	Soil	SW8082_S	/					A1
M0975-07A	COMP-B-061313	06/13/2013 10:05	06/14/2013	Soil	SW8270_S	/					A1
M0975-08A	C-1-2-061313	06/13/2013 10:15	06/14/2013	Soil	PMoist	/					VOA
M0975-08A	C-1-2-061313	06/13/2013 10:15	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-08A	C-1-2-061313	06/13/2013 10:15	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-09A	C-2-3-061313	06/13/2013 10:20	06/14/2013	Soil	PMoist	/					VOA
M0975-09A	C-2-3-061313	06/13/2013 10:20	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-09A	C-2-3-061313	06/13/2013 10:20	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-10A	C-3-2-061313	06/13/2013 10:25	06/14/2013	Soil	PMoist	/					VOA
M0975-10A	C-3-2-061313	06/13/2013 10:25	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-10A	C-3-2-061313	06/13/2013 10:25	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-11A	COMP-C-061313	06/13/2013 10:30	06/14/2013	Soil	PMoist	/					A1
M0975-11A	COMP-C-061313	06/13/2013 10:30	06/14/2013	Soil	SW6010_S	/ TAL				Y	A1
M0975-11A	COMP-C-061313	06/13/2013 10:30	06/14/2013	Soil	SW7471	/ TAL					A1
M0975-11A	COMP-C-061313	06/13/2013 10:30	06/14/2013	Soil	SW8081_S	/					A1
M0975-11A	COMP-C-061313	06/13/2013 10:30	06/14/2013	Soil	SW8082_S	/					A1
M0975-11A	COMP-C-061313	06/13/2013 10:30	06/14/2013	Soil	SW8270_S	/					A1
M0975-12A	D-1-1-061313	06/13/2013 10:35	06/14/2013	Soil	PMoist	/					VOA
M0975-12A	D-1-1-061313	06/13/2013 10:35	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-12A	D-1-1-061313	06/13/2013 10:35	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-13A	D-3-4-061313	06/13/2013 10:40	06/14/2013	Soil	PMoist	/					VOA

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

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M0975-13A	D-3-4-061313	06/13/2013 10:40	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-14A	COMP-D-061313	06/13/2013 10:45	06/14/2013	Soil	PMoist	/					A1
M0975-14A	COMP-D-061313	06/13/2013 10:45	06/14/2013	Soil	SW6010_S	/ TAL				Y	A1
M0975-14A	COMP-D-061313	06/13/2013 10:45	06/14/2013	Soil	SW7471	/ TAL					A1
M0975-14A	COMP-D-061313	06/13/2013 10:45	06/14/2013	Soil	SW8081_S	/					A1
M0975-14A	COMP-D-061313	06/13/2013 10:45	06/14/2013	Soil	SW8082_S	/					A1
M0975-14A	COMP-D-061313	06/13/2013 10:45	06/14/2013	Soil	SW8270_S	/					A1
M0975-15A	E-1-3-061313	06/13/2013 11:10	06/14/2013	Soil	PMoist	/					VOA
M0975-15A	E-1-3-061313	06/13/2013 11:10	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-15A	E-1-3-061313	06/13/2013 11:10	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-16A	E-2-4-061313	06/13/2013 11:15	06/14/2013	Soil	PMoist	/					VOA
M0975-16A	E-2-4-061313	06/13/2013 11:15	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-16A	E-2-4-061313	06/13/2013 11:15	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-17A	E-3-2-061313	06/13/2013 11:20	06/14/2013	Soil	PMoist	/					VOA
M0975-17A	E-3-2-061313	06/13/2013 11:20	06/14/2013	Soil	SW8260_LOW_S	/					VOA
M0975-17A	E-3-2-061313	06/13/2013 11:20	06/14/2013	Soil	SW8260_MED_S	/		Y			VOA
M0975-18A	COMP-E-061313	06/13/2013 11:25	06/14/2013	Soil	PMoist	/					A1
M0975-18A	COMP-E-061313	06/13/2013 11:25	06/14/2013	Soil	SW6010_S	/ TAL				Y	A1
M0975-18A	COMP-E-061313	06/13/2013 11:25	06/14/2013	Soil	SW7471	/ TAL					A1
M0975-18A	COMP-E-061313	06/13/2013 11:25	06/14/2013	Soil	SW8081_S	/					A1
M0975-18A	COMP-E-061313	06/13/2013 11:25	06/14/2013	Soil	SW8082_S	/					A1
M0975-18A	COMP-E-061313	06/13/2013 11:25	06/14/2013	Soil	SW8270_S	/					A1

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

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Sample Transmittal Documentation

M0975

SPECTRUM ANALYTICAL, INC
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:
TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 30 days unless otherwise instructed.

Report To: GZA GeoEnvironmental
535 Washington St.
Buffalo, NY 14203

Project Mgr.: C. Boron

Invoice To: _____

P.O. No.: _____ RQN: _____

Project No.: 56367
Site Name: Signore
Location: Ellicottville State: NY
Sampler(s): T. Bohlen

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=_____ 10=_____ 11=_____

List preservative code below:

Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOC 8260 TCL	SVOC 8270 TCL	Metals: TAL	PCBs	Pesticides	QA/QC Reporting Level
M0975 - 01	A-1-3-061313	6/13/13	915	G	SO			1		X					☐ Level I ☐ Level II
- 02	A-2-2-061313	6/13/13	930	G	SO			1		X					☐ Level III ☐ Level IV
- 03	A-3-1-061313	6/13/13	935	G	SO			1		X					☐ Other _____
- 04	Comp-A-061313	6/13/13	945	C	SO			1			X	X	X	X	State specific reporting standards:
- 05	B-1-4-061313		950	G				1		X					
- 06	B-2-1-061313		955	G				1		X					
- 07	Comp-B-061313		1005	C				1			X	X	X	X	
- 08	C-1-2-061313		1015	G				1		X					
- 09	C-2-3-061313		1020	G				1		X					
- 10	C-3-2-061313		1025	G				1		X					

☑ E-mail to christopher.boron@gza.com
EDD Format _____

Condition upon receipt: ☑ Iced ☐ Ambient ☑ °C 5°

Relinquished by:	Received by:	Date:	Time:
Thomas Bohlen	FedEx	6/13/13	1845
FedEx		6/14/13	10:45
VSUB 6/14/13			

Page 5 of 806

M0975

SPECTRUM ANALYTICAL, INC
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:
TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 30 days unless otherwise instructed.

Report To: GZA

Invoice To: _____

Project No.: 56367
Site Name: Signore
Location: Ellicottville State: NY
Sampler(s): _____

Project Mgr.: _____

P.O. No.: _____ RQN: _____

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=_____ 10=_____ 11=_____

List preservative code below:

Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOC 8260TCL	SVOC 8270TCL	Metals TAL	Pesticides	PCBs	QA/QC Reporting Level
M0975 - 11	Comp-C-061313	6/13/13	1030	C	SO			1			X	X	X	X	☐ Level I ☐ Level II
- 12	D-1-1-061313		1035	G				1		X					☐ Level III ☐ Level IV
~~B-3-3~~															☐ Other _____
- 13	D-3-4-061313		1040	G	SO			1		X					State specific reporting standards:
- 14	Comp-D-061313	6/13/13	1045	C				1			X	X	X	X	
- 15	E-1-3-061313		1110	G				1		X					
- 16	E-2-4-061313		1115	G				1		X					
- 17	E-3-2-061313		1120	G				1		X					
- 18	Comp-E-061313		1125	C				1			X	X	X	X	

E-mail to christopher.baron@gza.com
EDD Format _____

Condition upon receipt: ☒ Iced ☐ Ambient ☒ °C 5°

Relinquished by:	Received by:	Date:	Time:
Thomas Bolden	Fed Ex	6/13/13	1845
FedEx	Verified By	6/14/13	10:45

Page 6 of 806

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

Received By: VEB	Page 01 of 01
Reviewed By:	Log-in Date 06/14/2013
Work Order: M0975	Client Name: GZA GeoEnvironmental, Inc.
Project Name/Event: Former Signore Facility	

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. FedEx 8019 8561 7806
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	5 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	06/14/2013
12. Time Received	10:45

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

IR Temp Gun ID:MT-74

CoolantCondition: ICE

Preservative Name/Lot No:

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
M0975-01						US	
M0975-02						US	
M0975-03						US	
M0975-04							
M0975-05						US	
M0975-06						US	
M0975-07							
M0975-08						US	
M0975-09						US	
M0975-10						US	
M0975-11							
M0975-12						US	
M0975-13						US	
M0975-14							
M0975-15						US	
M0975-16						US	
M0975-17						US	
M0975-18							

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 : GZA GeoEnvironmental of NY Buffalo

Project: Former Signore Facility

Laboratory Workorder / SDG #: M0975

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: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5
Instrument Type: GCMS-VOA

Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890

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.

D-1-1-061313 (M0975-12A), recovery is below criteria for 1,2-Dichloroethane-d4 at 87% 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-72200 in batch 72200, recovery is above criteria for 2-Hexanone at 146% with criteria of (45-145), Naphthalene at 155% with criteria of (40-125), trans-1,3-Dichloropropene at 126% with criteria of (65-125).

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:_____6/27/2013_____

Data Flag/Qualifiers:

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 an 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 aldol condensation byproducts.

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.

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.: M0975 Mod. Ref No.: SDG No.: SM0975

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-72200	99	103	102	104				0
02	MB-72200	96	96	102	100				0
03	A-1-3-061313	100	101	100	104				0
04	A-2-2-061313	101	97	99	98				0
05	A-3-1-061313	103	103	100	96				0
06	B-1-4-061313	95	92	100	98				0
07	B-2-1-061313	102	99	100	99				0
08	C-1-2-061313	101	106	100	96				0
09	C-2-3-061313	102	106	99	99				0
10	C-3-2-061313	95	92	100	92				0
11	D-1-1-061313	95	87 *	101	93				1
12	D-3-4-061313	98	97	101	92				0
13	E-1-3-061313	95	96	99	94				0
14	E-2-4-061313	99	102	100	96				0
15	E-3-2-061313	99	102	100	102				0

		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

som13.06.03.A

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-72200

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72200 LCS Lot No.:

Date Extracted: 06/20/2013 Date Analyzed (1): 06/20/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	54.0213	108		35 - 135
Chloromethane	50.0000	0.0000	56.7868	114		50 - 130
Vinyl chloride	50.0000	0.0000	58.5410	117		60 - 125
Bromomethane	50.0000	0.0000	56.6659	113		30 - 160
Chloroethane	50.0000	0.0000	55.9181	112		40 - 155
Trichlorofluoromethane	50.0000	0.0000	55.4608	111		25 - 185
1,1-Dichloroethene	50.0000	0.0000	54.3615	109		65 - 135
Acetone	50.0000	0.0000	55.6831	111		20 - 160
Iodomethane	50.0000	0.0000	54.7422	109		70 - 126
Carbon disulfide	50.0000	0.0000	56.4519	113		45 - 160
Methylene chloride	50.0000	0.0000	53.0433	106		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	56.0826	112		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	60.5810	121		75 - 126
1,1-Dichloroethane	50.0000	0.0000	56.1385	112		75 - 125
Vinyl acetate	50.0000	0.0000	62.0821	124		65 - 138
2-Butanone	50.0000	0.0000	64.2629	129		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	56.0572	112		65 - 125
2,2-Dichloropropane	50.0000	0.0000	56.2154	112		65 - 135
Bromochloromethane	50.0000	0.0000	54.6716	109		70 - 125
Chloroform	50.0000	0.0000	55.0244	110		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	55.0460	110		70 - 135
1,1-Dichloropropene	50.0000	0.0000	54.7748	110		70 - 135
Carbon tetrachloride	50.0000	0.0000	55.6117	111		65 - 135
1,2-Dichloroethane	50.0000	0.0000	56.4170	113		70 - 135
Benzene	50.0000	0.0000	55.1153	110		75 - 125
Trichloroethene	50.0000	0.0000	55.0853	110		75 - 125
1,2-Dichloropropane	50.0000	0.0000	56.9807	114		70 - 120
Dibromomethane	50.0000	0.0000	57.2187	114		75 - 130
Bromodichloromethane	50.0000	0.0000	56.8672	114		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	60.1587	120		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	70.2141	140		45 - 145
Toluene	50.0000	0.0000	55.4366	111		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	63.0114	126	*	65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	56.4877	113		60 - 125
1,3-Dichloropropane	50.0000	0.0000	58.0961	116		75 - 125
Tetrachloroethene	50.0000	0.0000	55.1191	110		65 - 140
2-Hexanone	50.0000	0.0000	73.1921	146	*	45 - 145
Dibromochloromethane	50.0000	0.0000	59.3810	119		65 - 130
1,2-Dibromoethane	50.0000	0.0000	58.7984	118		70 - 125
Chlorobenzene	50.0000	0.0000	54.4954	109		75 - 125
1,1,1,2-Tetrachloroethane	50.0000	0.0000	57.2748	115		75 - 125
Ethylbenzene	50.0000	0.0000	56.0681	112		75 - 125
m,p-Xylene	100.0000	0.0000	111.5168	112		80 - 125
o-Xylene	50.0000	0.0000	56.5477	113		75 - 125

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-72200

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72200 LCS Lot No.:

Date Extracted: 06/20/2013 Date Analyzed (1): 06/20/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	168.0645	112		83 - 125
Styrene	50.0000	0.0000	58.5047	117		75 - 125
Bromoform	50.0000	0.0000	65.0620	130		55 - 135
Isopropylbenzene	50.0000	0.0000	58.1228	116		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	61.5497	123		55 - 130
Bromobenzene	50.0000	0.0000	55.3055	111		65 - 120
1,2,3-Trichloropropane	50.0000	0.0000	63.7449	127		65 - 130
n-Propylbenzene	50.0000	0.0000	55.4323	111		65 - 135
2-Chlorotoluene	50.0000	0.0000	56.5864	113		70 - 130
1,3,5-Trimethylbenzene	50.0000	0.0000	57.0959	114		65 - 135
4-Chlorotoluene	50.0000	0.0000	57.0996	114		75 - 125
tert-Butylbenzene	50.0000	0.0000	56.9215	114		65 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	58.1883	116		65 - 135
sec-Butylbenzene	50.0000	0.0000	55.8292	112		65 - 130
4-Isopropyltoluene	50.0000	0.0000	56.3038	113		75 - 135
1,3-Dichlorobenzene	50.0000	0.0000	56.2090	112		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	56.1072	112		70 - 125
n-Butylbenzene	50.0000	0.0000	55.9064	112		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	57.1225	114		75 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	66.0660	132		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	58.3223	117		65 - 130
Hexachlorobutadiene	50.0000	0.0000	56.1965	112		55 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	59.5613	119		60 - 135
Naphthalene	50.0000	0.0000	77.3028	155	*	40 - 125

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

* Values outside of QC limits

Spike Recovery: 3 out of 68 outside limits

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
MB-72200

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: V5O4282.D Lab Sample ID: MB-72200

Instrument ID: V5

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/20/2013

Level: (TRACE or LOW/MED) LOW Time Analyzed: 17:47

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-72200	LCS-72200	V5O4280.D	16:55
02	A-1-3-061313	M0975-01A	V5O4283.D	18:13
03	A-2-2-061313	M0975-02A	V5O4284.D	18:39
04	A-3-1-061313	M0975-03A	V5O4285.D	19:07
05	B-1-4-061313	M0975-05A	V5O4286.D	19:33
06	B-2-1-061313	M0975-06A	V5O4287.D	19:58
07	C-1-2-061313	M0975-08A	V5O4288.D	20:24
08	C-2-3-061313	M0975-09A	V5O4289.D	20:50
09	C-3-2-061313	M0975-10A	V5O4290.D	21:16
10	D-1-1-061313	M0975-12A	V5O4291.D	21:42
11	D-3-4-061313	M0975-13A	V5O4292.D	22:08
12	E-1-3-061313	M0975-15A	V5O4293.D	22:34
13	E-2-4-061313	M0975-16A	V5O4294.D	23:00
14	E-3-2-061313	M0975-17A	V5O4295.D	23:26

COMMENTS:

som13.06.03.A

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

EPA SAMPLE NO.
BFBV5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: V5O4270.D BFB Injection Date: 06/20/2013

Instrument ID: V5 BFB Injection Time: 9:05

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.0
75	30.0 - 60.0% of mass 95	48.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	Greater than 50.0% of mass 95	92.3
175	5.0 - 9.0% of mass 174	6.3 (6.8)1
176	95.0 - 101.0% of mass 174	88.4 (95.8)1
177	5.0 - 9.0% of mass 176	6.0 (6.8)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	VSTD005V5	VSTD005V5	V5O4271.D	06/20/2013	9:57
02	VSTD020V5	VSTD020V5	V5O4272.D	06/20/2013	10:23
03	VSTD050V5	VSTD050V5	V5O4273.D	06/20/2013	10:49
04	VSTD100V5	VSTD100V5	V5O4274.D	06/20/2013	14:20
05	VSTD200V5	VSTD200V5	V5O4275.D	06/20/2013	14:45

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

EPA SAMPLE NO.
BFBW5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: V5O4278.D BFB Injection Date: 06/20/2013

Instrument ID: V5 BFB Injection Time: 15:11

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.1
75	30.0 - 60.0% of mass 95	50.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.9 (1.0)1
174	Greater than 50.0% of mass 95	93.0
175	5.0 - 9.0% of mass 174	7.7 (8.2)1
176	95.0 - 101.0% of mass 174	91.6 (98.5)1
177	5.0 - 9.0% of mass 176	5.5 (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	VSTD050W5	VSTD050W5	V5O4279.D	06/20/2013	16:29
02	LCS-72200	LCS-72200	V5O4280.D	06/20/2013	16:55
03	MB-72200	MB-72200	V5O4282.D	06/20/2013	17:47
04	A-1-3-061313	M0975-01A	V5O4283.D	06/20/2013	18:13
05	A-2-2-061313	M0975-02A	V5O4284.D	06/20/2013	18:39
06	A-3-1-061313	M0975-03A	V5O4285.D	06/20/2013	19:07
07	B-1-4-061313	M0975-05A	V5O4286.D	06/20/2013	19:33
08	B-2-1-061313	M0975-06A	V5O4287.D	06/20/2013	19:58
09	C-1-2-061313	M0975-08A	V5O4288.D	06/20/2013	20:24
10	C-2-3-061313	M0975-09A	V5O4289.D	06/20/2013	20:50
11	C-3-2-061313	M0975-10A	V5O4290.D	06/20/2013	21:16
12	D-1-1-061313	M0975-12A	V5O4291.D	06/20/2013	21:42
13	D-3-4-061313	M0975-13A	V5O4292.D	06/20/2013	22:08
14	E-1-3-061313	M0975-15A	V5O4293.D	06/20/2013	22:34
15	E-2-4-061313	M0975-16A	V5O4294.D	06/20/2013	23:00
16	E-3-2-061313	M0975-17A	V5O4295.D	06/20/2013	23:26

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 06/20/2013 06/20/2013

EPA Sample No.(VSTD#####): VSTD050W5 Date Analyzed: 06/20/2013

Lab File ID (Standard): V5O4279.D Time Analyzed: 16:29

Instrument ID: V5 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	398124		5.593		304854		9.077		161287		12.236	
	UPPER LIMIT	796248		6.093		609708		9.577		322574		12.736	
	LOWER LIMIT	199062		5.093		152427		8.577		80644		11.736	
	EPA SAMPLE NO.												
01	LCS-72200	390519		5.600		303682		9.072		163277		12.243	
02	MB-72200	389139		5.600		290933		9.072		151129		12.242	
03	A-1-3-061313	390659		5.600		301021		9.073		158204		12.243	
04	A-2-2-061313	388303		5.601		302080		9.074		152324		12.244	
05	A-3-1-061313	372271		5.600		286505		9.072		143941		12.243	
06	B-1-4-061313	355703		5.595		263702		9.079		133483		12.237	
07	B-2-1-061313	372140		5.594		282294		9.078		145923		12.237	
08	C-1-2-061313	369360		5.599		287310		9.072		146867		12.242	
09	C-2-3-061313	359389		5.603		281827		9.075		139312		12.245	
10	C-3-2-061313	295676		5.593		220295		9.077		101790		12.236	
11	D-1-1-061313	336724		5.599		241308		9.072		119795		12.242	
12	D-3-4-061313	352955		5.599		266835		9.072		136781		12.242	
13	E-1-3-061313	345464		5.588		266855		9.072		128048		12.243	
14	E-2-4-061313	355527		5.593		272676		9.077		137450		12.235	
15	E-3-2-061313	359155		5.592		272526		9.076		140653		12.235	

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.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1-3-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-01A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4283.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 21 Date Analyzed: 06/20/2013

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	6.2	U
74-87-3	Chloromethane	6.2	U
75-01-4	Vinyl chloride	6.2	U
74-83-9	Bromomethane	6.2	U
75-00-3	Chloroethane	6.2	U
75-69-4	Trichlorofluoromethane	6.2	U
75-35-4	1,1-Dichloroethene	6.2	U
67-64-1	Acetone	6.2	U
74-88-4	Iodomethane	6.2	U
75-15-0	Carbon disulfide	6.2	U
75-09-2	Methylene chloride	6.2	U
156-60-5	trans-1,2-Dichloroethene	6.2	U
1634-04-4	Methyl tert-butyl ether	6.2	U
75-34-3	1,1-Dichloroethane	6.2	U
108-05-4	Vinyl acetate	6.2	U
78-93-3	2-Butanone	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
594-20-7	2,2-Dichloropropane	6.2	U
74-97-5	Bromochloromethane	6.2	U
67-66-3	Chloroform	6.2	U
71-55-6	1,1,1-Trichloroethane	6.2	U
563-58-6	1,1-Dichloropropene	6.2	U
56-23-5	Carbon tetrachloride	6.2	U
107-06-2	1,2-Dichloroethane	6.2	U
71-43-2	Benzene	6.2	U
79-01-6	Trichloroethene	6.2	U
78-87-5	1,2-Dichloropropane	6.2	U
74-95-3	Dibromomethane	6.2	U
75-27-4	Bromodichloromethane	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
108-10-1	4-Methyl-2-pentanone	6.2	U
108-88-3	Toluene	6.2	U
10061-02-6	trans-1,3-Dichloropropene	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
142-28-9	1,3-Dichloropropane	6.2	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1-3-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-01A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4283.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 21 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.2	U
591-78-6	2-Hexanone	6.2	U
124-48-1	Dibromochloromethane	6.2	U
106-93-4	1,2-Dibromoethane	6.2	U
108-90-7	Chlorobenzene	6.2	U
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U
100-41-4	Ethylbenzene	6.2	U
179601-23-1	m,p-Xylene	6.2	U
95-47-6	o-Xylene	6.2	U
1330-20-7	Xylene (Total)	6.2	U
100-42-5	Styrene	6.2	U
75-25-2	Bromoform	6.2	U
98-82-8	Isopropylbenzene	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
108-86-1	Bromobenzene	6.2	U
96-18-4	1,2,3-Trichloropropane	6.2	U
103-65-1	n-Propylbenzene	6.2	U
95-49-8	2-Chlorotoluene	6.2	U
108-67-8	1,3,5-Trimethylbenzene	6.2	U
106-43-4	4-Chlorotoluene	6.2	U
98-06-6	tert-Butylbenzene	6.2	U
95-63-6	1,2,4-Trimethylbenzene	6.2	U
135-98-8	sec-Butylbenzene	6.2	U
99-87-6	4-Isopropyltoluene	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
104-51-8	n-Butylbenzene	6.2	U
95-50-1	1,2-Dichlorobenzene	6.2	U
96-12-8	1,2-Dibromo-3-chloropropane	6.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
87-68-3	Hexachlorobutadiene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
91-20-3	Naphthalene	6.2	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4283.D
Report Date: 23-Jun-2013 10:42

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4283.D
Lab Smp Id: M0975-01A Client Smp ID: A-1-3-061313
Inj Date : 20-JUN-2013 18:13
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-01A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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	5.100	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	4.926	4.919	(0.880)	134708	50.0858	49
$ 38 1,2-Dichloroethane-d4	102	5.252	5.256	(0.938)	22633	50.2700	49
* 42 Fluorobenzene	96	5.600	5.593	(1.000)	390659	50.0000	
$ 52 Toluene-d8	98	7.319	7.323	(0.807)	373426	50.0952	49
* 61 Chlorobenzene-d5	117	9.072	9.076	(1.000)	301021	50.0000	
$ 72 Bromofluorobenzene	95	10.628	10.633	(1.172)	156798	51.8075	51
* 85 1,4-Dichlorobenzene-d4	152	12.243	12.235	(1.000)	158204	50.0000	(Q)

QC Flag Legend

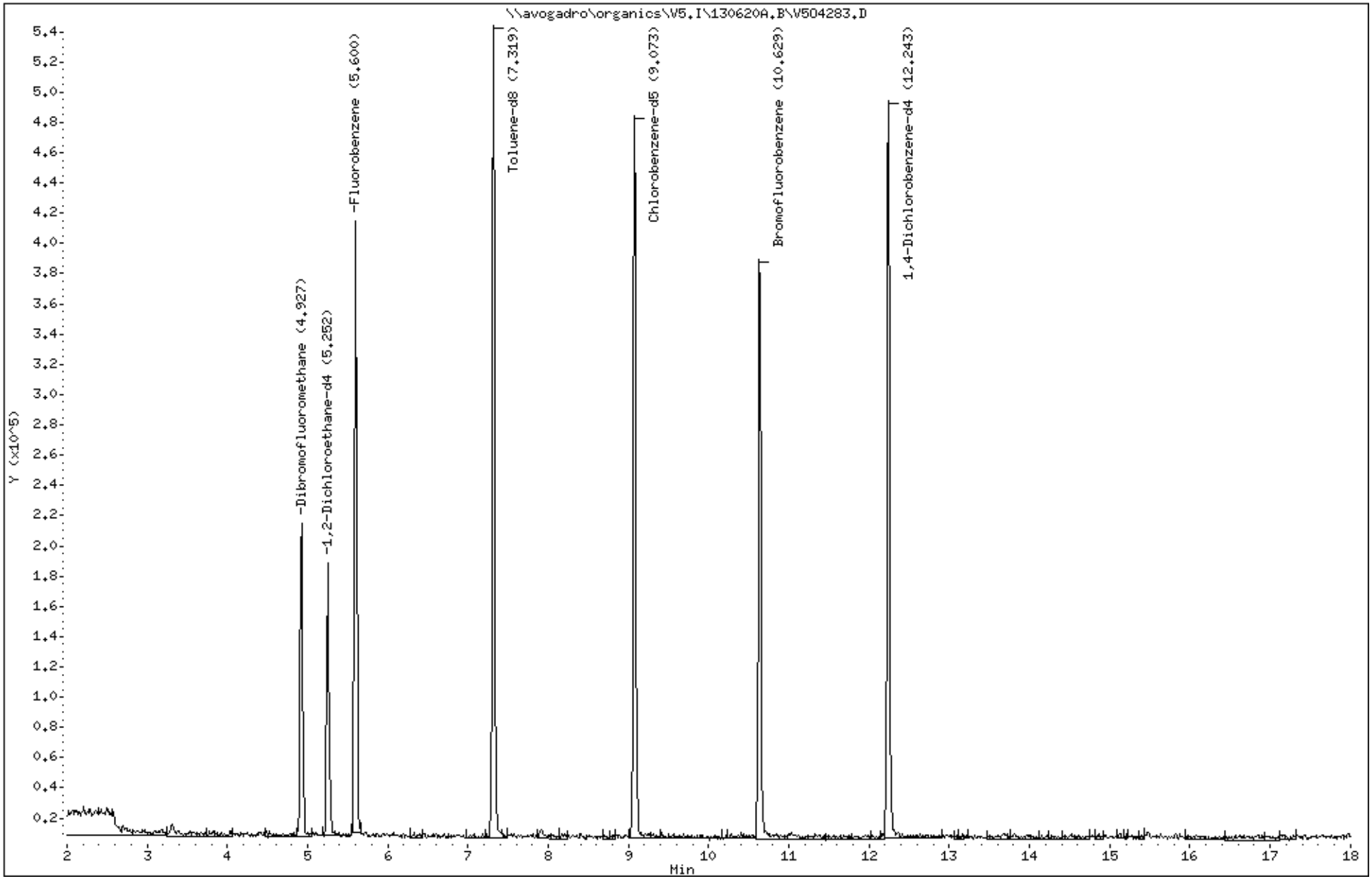
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504283.D
Date : 20-JUN-2013 18:13
Client ID: A-1-3-061313
Sample Info: 5G,M0975-01A,,72200

Instrument: V5.i

Operator: WL SRC: LIMS
Column diameter: 0.25

Column phase: DB-624



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-2-2-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-02A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4284.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 25 Date Analyzed: 06/20/2013

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	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	6.7	U
67-64-1	Acetone	6.7	U
74-88-4	Iodomethane	6.7	U
75-15-0	Carbon disulfide	6.7	U
75-09-2	Methylene chloride	6.7	U
156-60-5	trans-1,2-Dichloroethene	6.7	U
1634-04-4	Methyl tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
108-05-4	Vinyl acetate	6.7	U
78-93-3	2-Butanone	6.7	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
594-20-7	2,2-Dichloropropane	6.7	U
74-97-5	Bromochloromethane	6.7	U
67-66-3	Chloroform	6.7	U
71-55-6	1,1,1-Trichloroethane	6.7	U
563-58-6	1,1-Dichloropropene	6.7	U
56-23-5	Carbon tetrachloride	6.7	U
107-06-2	1,2-Dichloroethane	6.7	U
71-43-2	Benzene	6.7	U
79-01-6	Trichloroethene	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
74-95-3	Dibromomethane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-pentanone	6.7	U
108-88-3	Toluene	6.7	U
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
142-28-9	1,3-Dichloropropane	6.7	U

EPA SAMPLE NO.
A-2-2-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-02A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4284.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 25 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.7	U
591-78-6	2-Hexanone	6.7	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	6.7	U
630-20-6	1,1,1,2-Tetrachloroethane	6.7	U
100-41-4	Ethylbenzene	6.7	U
179601-23-1	m,p-Xylene	6.7	U
95-47-6	o-Xylene	6.7	U
1330-20-7	Xylene (Total)	6.7	U
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropylbenzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
108-86-1	Bromobenzene	6.7	U
96-18-4	1,2,3-Trichloropropane	6.7	U
103-65-1	n-Propylbenzene	6.7	U
95-49-8	2-Chlorotoluene	6.7	U
108-67-8	1,3,5-Trimethylbenzene	6.7	U
106-43-4	4-Chlorotoluene	6.7	U
98-06-6	tert-Butylbenzene	6.7	U
95-63-6	1,2,4-Trimethylbenzene	6.7	U
135-98-8	sec-Butylbenzene	6.7	U
99-87-6	4-Isopropyltoluene	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
104-51-8	n-Butylbenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
87-68-3	Hexachlorobutadiene	6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	U
91-20-3	Naphthalene	6.7	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4284.D
Report Date: 23-Jun-2013 10:42

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4284.D
Lab Smp Id: M0975-02A Client Smp ID: A-2-2-061313
Inj Date : 20-JUN-2013 18:39
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-02A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	4.927	4.919	(0.880)	134508	50.3149	50
$ 38 1,2-Dichloroethane-d4	102	5.252	5.256	(0.938)	21751	48.6041	49
* 42 Fluorobenzene	96	5.601	5.593	(1.000)	388303	50.0000	
$ 52 Toluene-d8	98	7.320	7.323	(0.807)	369723	49.4246	49
* 61 Chlorobenzene-d5	117	9.073	9.076	(1.000)	302080	50.0000	
$ 72 Bromofluorobenzene	95	10.629	10.633	(1.172)	148232	48.8055	49
* 85 1,4-Dichlorobenzene-d4	152	12.244	12.235	(1.000)	152324	50.0000	(Q)

QC Flag Legend

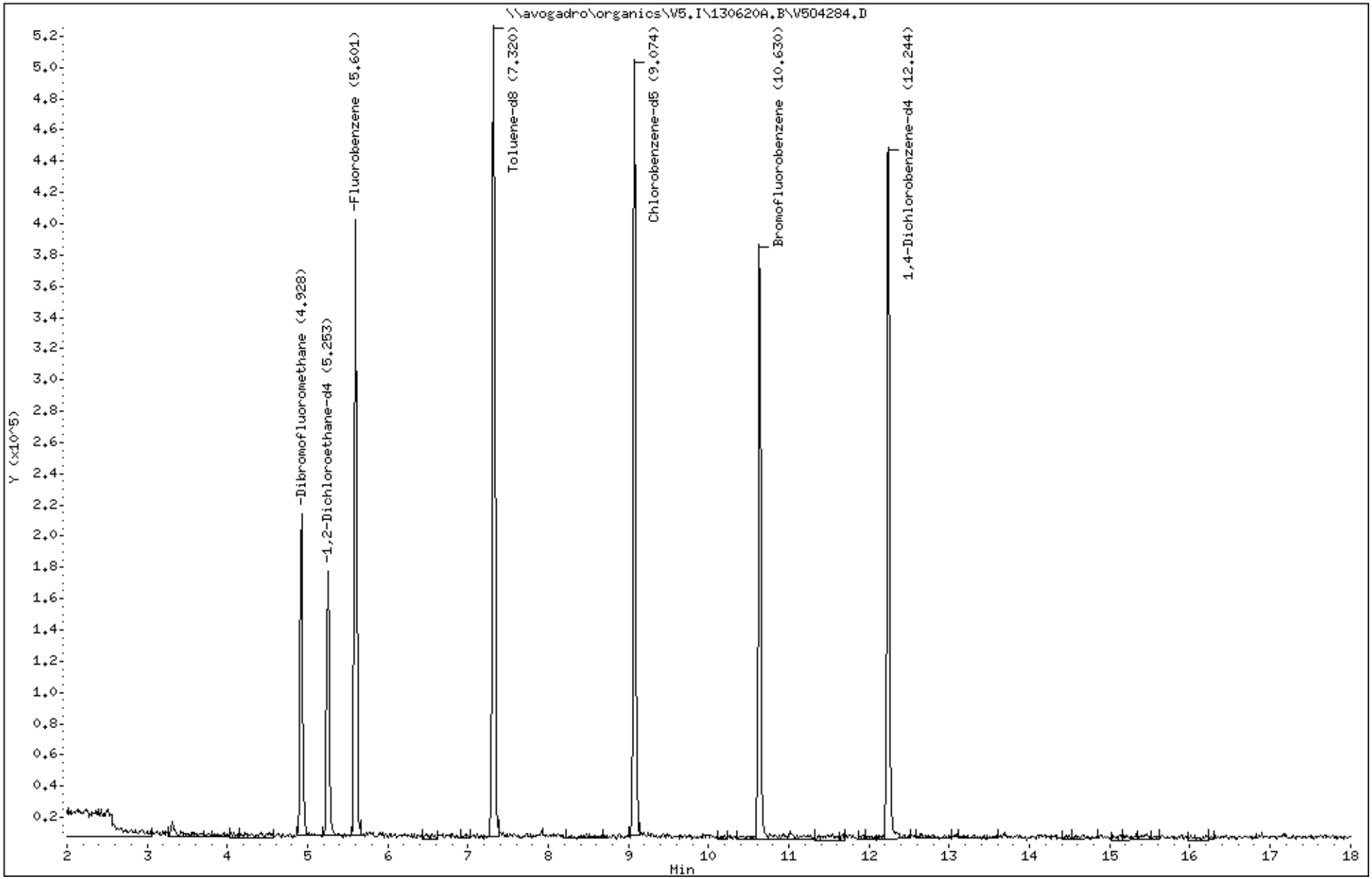
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504284.D
Date : 20-JUN-2013 18:39
Client ID: A-2-2-061313
Sample Info: 5G,M0975-02A,,72200

Instrument: V5.i

Operator: WL SRC: LIMS
Column diameter: 0.25

Column phase: DB-624



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-3-1-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-03A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4285.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 19 Date Analyzed: 06/20/2013

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	6.0	U
74-87-3	Chloromethane	6.0	U
75-01-4	Vinyl chloride	6.0	U
74-83-9	Bromomethane	6.0	U
75-00-3	Chloroethane	6.0	U
75-69-4	Trichlorofluoromethane	6.0	U
75-35-4	1,1-Dichloroethene	6.0	U
67-64-1	Acetone	6.0	U
74-88-4	Iodomethane	6.0	U
75-15-0	Carbon disulfide	6.0	U
75-09-2	Methylene chloride	6.0	U
156-60-5	trans-1,2-Dichloroethene	6.0	U
1634-04-4	Methyl tert-butyl ether	6.0	U
75-34-3	1,1-Dichloroethane	6.0	U
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	6.0	U
74-97-5	Bromochloromethane	6.0	U
67-66-3	Chloroform	6.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
563-58-6	1,1-Dichloropropene	6.0	U
56-23-5	Carbon tetrachloride	6.0	U
107-06-2	1,2-Dichloroethane	6.0	U
71-43-2	Benzene	6.0	U
79-01-6	Trichloroethene	6.0	U
78-87-5	1,2-Dichloropropane	6.0	U
74-95-3	Dibromomethane	6.0	U
75-27-4	Bromodichloromethane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
108-10-1	4-Methyl-2-pentanone	6.0	U
108-88-3	Toluene	6.0	U
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
142-28-9	1,3-Dichloropropane	6.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-3-1-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-03A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4285.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 19 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.0	U
591-78-6	2-Hexanone	6.0	U
124-48-1	Dibromochloromethane	6.0	U
106-93-4	1,2-Dibromoethane	6.0	U
108-90-7	Chlorobenzene	6.0	U
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
179601-23-1	m,p-Xylene	6.0	U
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	6.0	U
100-42-5	Styrene	6.0	U
75-25-2	Bromoform	6.0	U
98-82-8	Isopropylbenzene	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	6.0	U
95-50-1	1,2-Dichlorobenzene	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4285.D
Report Date: 23-Jun-2013 10:42

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4285.D
Lab Smp Id: M0975-03A Client Smp ID: A-3-1-061313
Inj Date : 20-JUN-2013 19:07
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-03A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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	5.100	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	4.926	4.919	(0.880)	132318	51.6273	51
$ 38 1,2-Dichloroethane-d4	102	5.251	5.256	(0.938)	22010	51.3009	50
* 42 Fluorobenzene	96	5.599	5.593	(1.000)	372271	50.0000	
$ 52 Toluene-d8	98	7.318	7.323	(0.807)	354374	49.9480	49
* 61 Chlorobenzene-d5	117	9.072	9.076	(1.000)	286505	50.0000	
$ 72 Bromofluorobenzene	95	10.628	10.633	(1.172)	137552	47.7511	47
* 85 1,4-Dichlorobenzene-d4	152	12.242	12.235	(1.000)	143941	50.0000	(Q)

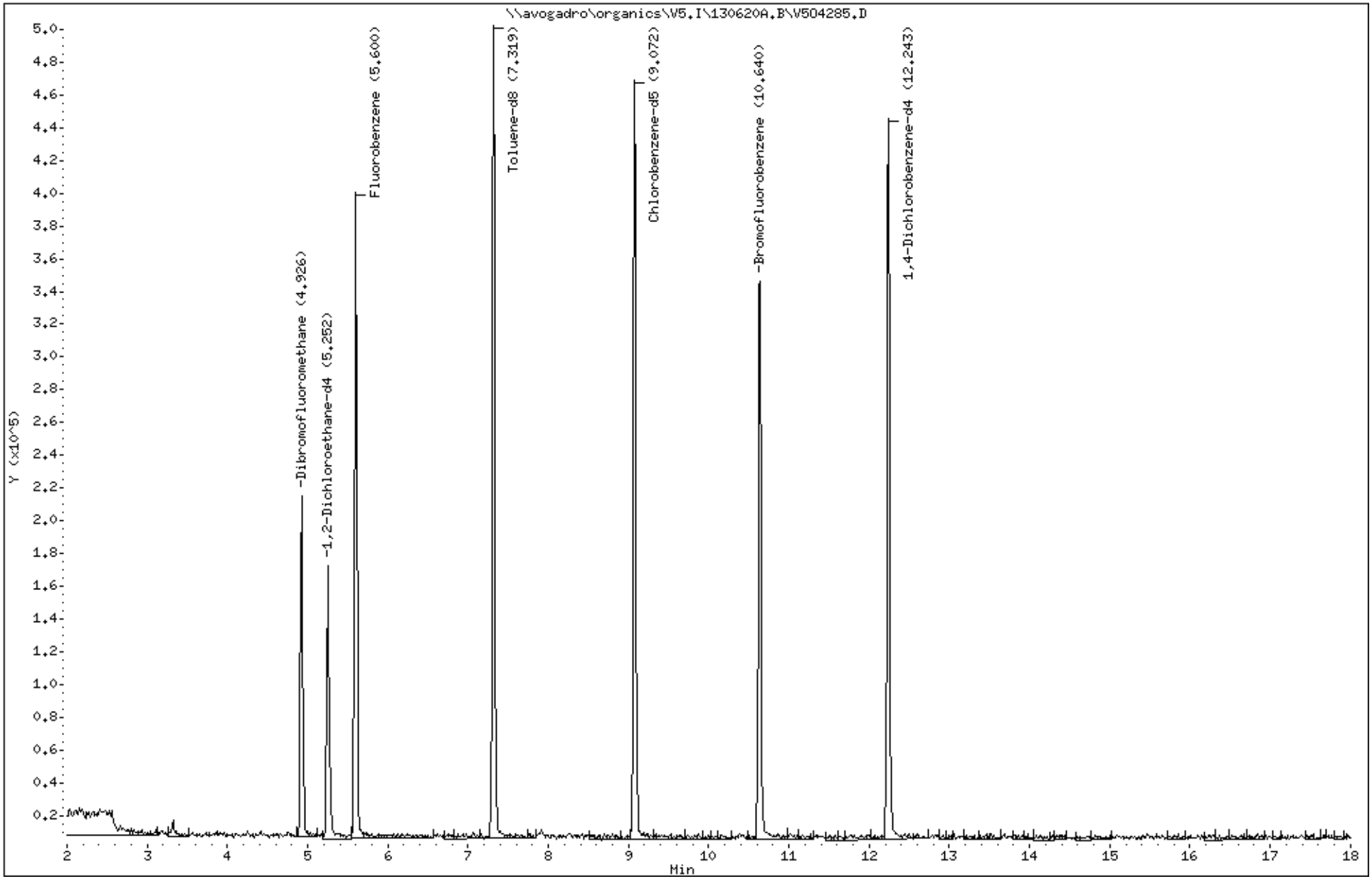
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504285.D
Date : 20-JUN-2013 19:07
Client ID: A-3-1-061313
Sample Info: 5G,M0975-03A,,72200

Instrument: V5.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.

B-1-4-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-05A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4286.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 19 Date Analyzed: 06/20/2013

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	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
67-64-1	Acetone	6.1	U
74-88-4	Iodomethane	6.1	U
75-15-0	Carbon disulfide	6.1	U
75-09-2	Methylene chloride	6.1	U
156-60-5	trans-1,2-Dichloroethene	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
108-05-4	Vinyl acetate	6.1	U
78-93-3	2-Butanone	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
594-20-7	2,2-Dichloropropane	6.1	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
563-58-6	1,1-Dichloropropene	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
71-43-2	Benzene	6.1	U
79-01-6	Trichloroethene	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
74-95-3	Dibromomethane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-pentanone	6.1	U
108-88-3	Toluene	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
142-28-9	1,3-Dichloropropane	6.1	U

EPA SAMPLE NO.
B-1-4-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-05A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4286.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 19 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.1	U
591-78-6	2-Hexanone	6.1	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U
100-41-4	Ethylbenzene	6.1	U
179601-23-1	m,p-Xylene	6.1	U
95-47-6	o-Xylene	6.1	U
1330-20-7	Xylene (Total)	6.1	U
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
108-86-1	Bromobenzene	6.1	U
96-18-4	1,2,3-Trichloropropane	6.1	U
103-65-1	n-Propylbenzene	6.1	U
95-49-8	2-Chlorotoluene	6.1	U
108-67-8	1,3,5-Trimethylbenzene	6.1	U
106-43-4	4-Chlorotoluene	6.1	U
98-06-6	tert-Butylbenzene	6.1	U
95-63-6	1,2,4-Trimethylbenzene	6.1	U
135-98-8	sec-Butylbenzene	6.1	U
99-87-6	4-Isopropyltoluene	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
104-51-8	n-Butylbenzene	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-68-3	Hexachlorobutadiene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
91-20-3	Naphthalene	6.1	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4286.D
Report Date: 23-Jun-2013 10:42

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4286.D
Lab Smp Id: M0975-05A Client Smp ID: B-1-4-061313
Inj Date : 20-JUN-2013 19:33
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-05A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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

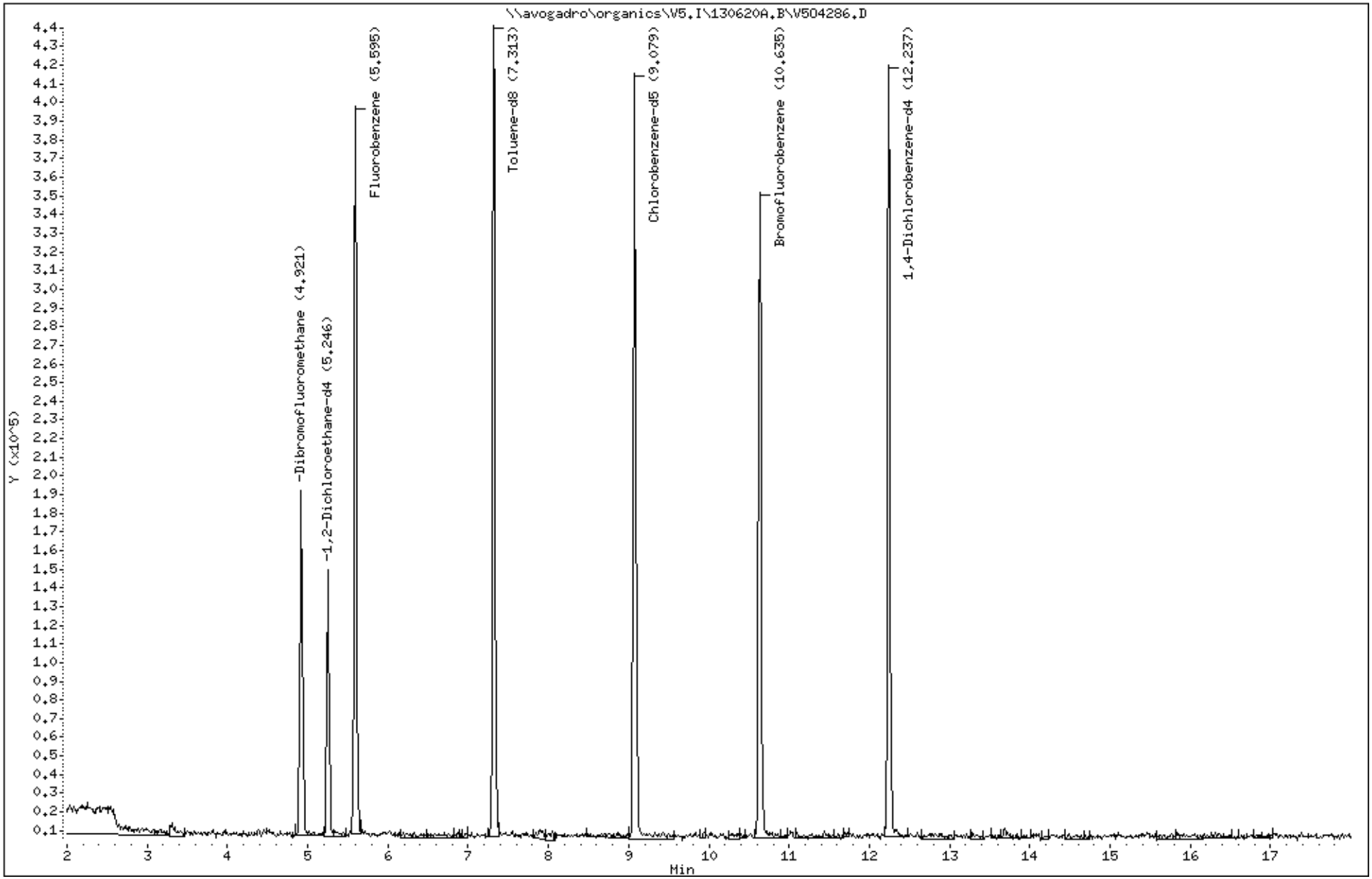
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	4.921	4.919	(0.880)	116513	47.5780	48
$ 38 1,2-Dichloroethane-d4	102	5.246	5.256	(0.938)	18804	45.8698	46
* 42 Fluorobenzene	96	5.594	5.593	(1.000)	355703	50.0000	
$ 52 Toluene-d8	98	7.313	7.323	(0.806)	326282	49.9653	50
* 61 Chlorobenzene-d5	117	9.078	9.076	(1.000)	263702	50.0000	
$ 72 Bromofluorobenzene	95	10.634	10.633	(1.171)	129957	49.0157	49
* 85 1,4-Dichlorobenzene-d4	152	12.237	12.235	(1.000)	133483	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504286.D
Date : 20-JUN-2013 19:33
Client ID: B-1-4-061313
Instrument: V5.i
Sample Info: 5G,M0975-05A,,72200
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.

B-2-1-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-06A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4287.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 18 Date Analyzed: 06/20/2013

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	6.0	U
74-87-3	Chloromethane	6.0	U
75-01-4	Vinyl chloride	6.0	U
74-83-9	Bromomethane	6.0	U
75-00-3	Chloroethane	6.0	U
75-69-4	Trichlorofluoromethane	6.0	U
75-35-4	1,1-Dichloroethene	6.0	U
67-64-1	Acetone	6.0	U
74-88-4	Iodomethane	6.0	U
75-15-0	Carbon disulfide	6.0	U
75-09-2	Methylene chloride	6.0	U
156-60-5	trans-1,2-Dichloroethene	6.0	U
1634-04-4	Methyl tert-butyl ether	6.0	U
75-34-3	1,1-Dichloroethane	6.0	U
108-05-4	Vinyl acetate	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
594-20-7	2,2-Dichloropropane	6.0	U
74-97-5	Bromochloromethane	6.0	U
67-66-3	Chloroform	6.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
563-58-6	1,1-Dichloropropene	6.0	U
56-23-5	Carbon tetrachloride	6.0	U
107-06-2	1,2-Dichloroethane	6.0	U
71-43-2	Benzene	6.0	U
79-01-6	Trichloroethene	6.0	U
78-87-5	1,2-Dichloropropane	6.0	U
74-95-3	Dibromomethane	6.0	U
75-27-4	Bromodichloromethane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
108-10-1	4-Methyl-2-pentanone	6.0	U
108-88-3	Toluene	6.0	U
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
142-28-9	1,3-Dichloropropane	6.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-1-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-06A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4287.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 18 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.0	U
591-78-6	2-Hexanone	6.0	U
124-48-1	Dibromochloromethane	6.0	U
106-93-4	1,2-Dibromoethane	6.0	U
108-90-7	Chlorobenzene	6.0	U
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
100-41-4	Ethylbenzene	6.0	U
179601-23-1	m,p-Xylene	6.0	U
95-47-6	o-Xylene	6.0	U
1330-20-7	Xylene (Total)	6.0	U
100-42-5	Styrene	6.0	U
75-25-2	Bromoform	6.0	U
98-82-8	Isopropylbenzene	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
108-86-1	Bromobenzene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
95-49-8	2-Chlorotoluene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
106-43-4	4-Chlorotoluene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
99-87-6	4-Isopropyltoluene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	6.0	U
95-50-1	1,2-Dichlorobenzene	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-68-3	Hexachlorobutadiene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
91-20-3	Naphthalene	6.0	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4287.D
Report Date: 23-Jun-2013 10:42

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4287.D
Lab Smp Id: M0975-06A Client Smp ID: B-2-1-061313
Inj Date : 20-JUN-2013 19:58
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-06A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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

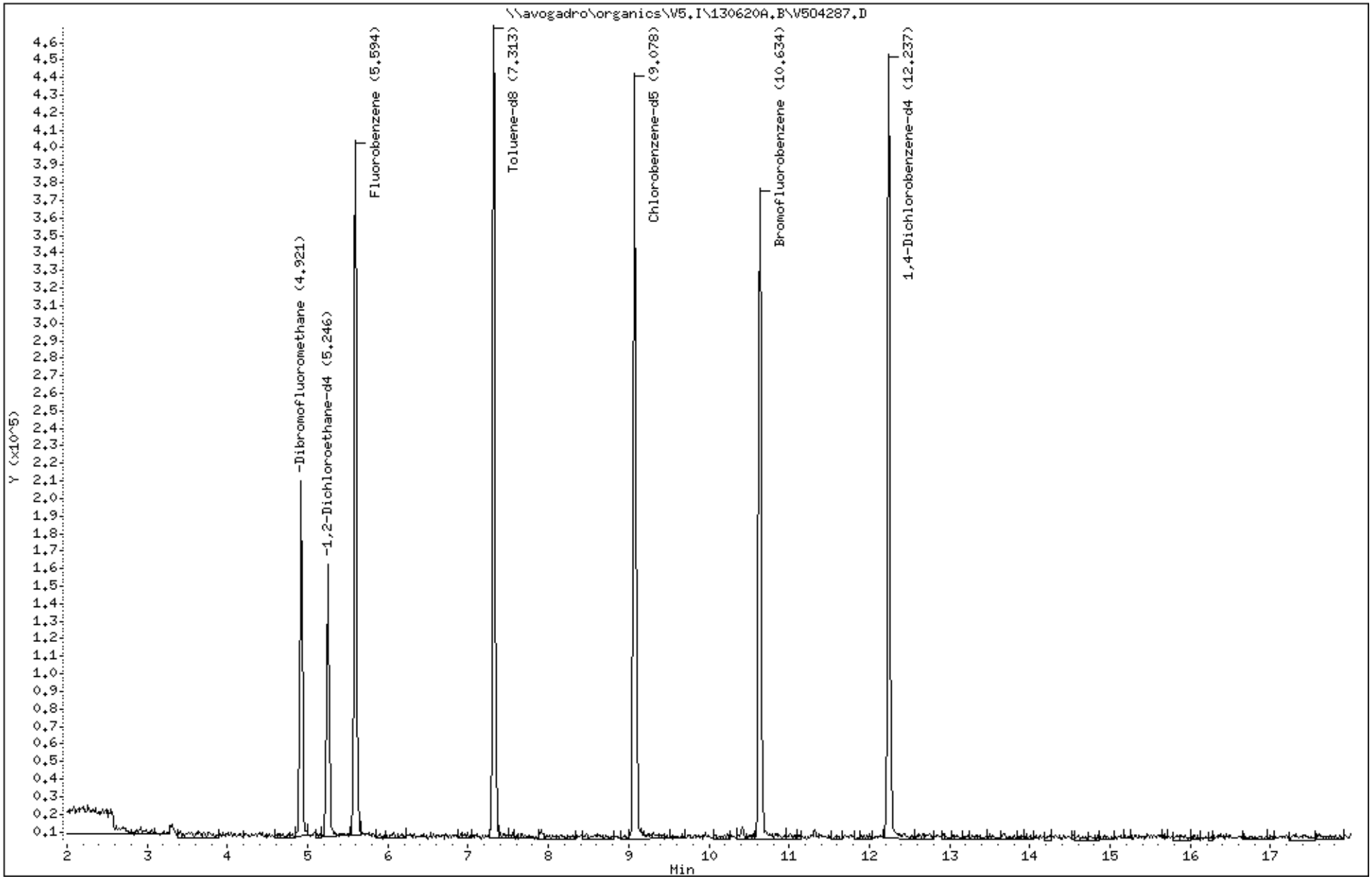
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.100	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	4.920	4.919	(0.880)	130221	50.8270	50
$ 38 1,2-Dichloroethane-d4	102	5.246	5.256	(0.938)	21147	49.3068	48
* 42 Fluorobenzene	96	5.594	5.593	(1.000)	372140	50.0000	
$ 52 Toluene-d8	98	7.313	7.323	(0.806)	350780	50.1790	49
* 61 Chlorobenzene-d5	117	9.078	9.076	(1.000)	282294	50.0000	
$ 72 Bromofluorobenzene	95	10.634	10.633	(1.171)	140803	49.6088	49
* 85 1,4-Dichlorobenzene-d4	152	12.237	12.235	(1.000)	145923	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504287.D
Date : 20-JUN-2013 19:58
Client ID: B-2-1-061313
Instrument: V5.i
Sample Info: 5G,M0975-06A,,72200
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.

C-1-2-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-08A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5O4288.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 24 Date Analyzed: 06/20/2013

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	6.3	U
74-87-3	Chloromethane	6.3	U
75-01-4	Vinyl chloride	6.3	U
74-83-9	Bromomethane	6.3	U
75-00-3	Chloroethane	6.3	U
75-69-4	Trichlorofluoromethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
67-64-1	Acetone	6.3	U
74-88-4	Iodomethane	6.3	U
75-15-0	Carbon disulfide	6.3	U
75-09-2	Methylene chloride	6.3	U
156-60-5	trans-1,2-Dichloroethene	6.3	U
1634-04-4	Methyl tert-butyl ether	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U
108-05-4	Vinyl acetate	6.3	U
78-93-3	2-Butanone	6.3	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
594-20-7	2,2-Dichloropropane	6.3	U
74-97-5	Bromochloromethane	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
563-58-6	1,1-Dichloropropene	6.3	U
56-23-5	Carbon tetrachloride	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
71-43-2	Benzene	6.3	U
79-01-6	Trichloroethene	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U
74-95-3	Dibromomethane	6.3	U
75-27-4	Bromodichloromethane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
108-10-1	4-Methyl-2-pentanone	6.3	U
108-88-3	Toluene	6.3	U
10061-02-6	trans-1,3-Dichloropropene	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
142-28-9	1,3-Dichloropropane	6.3	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1-2-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-08A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5O4288.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 24 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.3	U
591-78-6	2-Hexanone	6.3	U
124-48-1	Dibromochloromethane	6.3	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
630-20-6	1,1,1,2-Tetrachloroethane	6.3	U
100-41-4	Ethylbenzene	6.3	U
179601-23-1	m,p-Xylene	6.3	U
95-47-6	o-Xylene	6.3	U
1330-20-7	Xylene (Total)	6.3	U
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropylbenzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
108-86-1	Bromobenzene	6.3	U
96-18-4	1,2,3-Trichloropropane	6.3	U
103-65-1	n-Propylbenzene	6.3	U
95-49-8	2-Chlorotoluene	6.3	U
108-67-8	1,3,5-Trimethylbenzene	6.3	U
106-43-4	4-Chlorotoluene	6.3	U
98-06-6	tert-Butylbenzene	6.3	U
95-63-6	1,2,4-Trimethylbenzene	6.3	U
135-98-8	sec-Butylbenzene	6.3	U
99-87-6	4-Isopropyltoluene	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
104-51-8	n-Butylbenzene	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3	U
96-12-8	1,2-Dibromo-3-chloropropane	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-68-3	Hexachlorobutadiene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U
91-20-3	Naphthalene	6.3	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4288.D
Report Date: 23-Jun-2013 10:42

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4288.D
Lab Smp Id: M0975-08A Client Smp ID: C-1-2-061313
Inj Date : 20-JUN-2013 20:24
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-08A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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	5.200	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	4.914	4.919	(0.878)	128582	50.5650	49
$ 38 1,2-Dichloroethane-d4	102	5.250	5.256	(0.938)	22522	52.9080	51
* 42 Fluorobenzene	96	5.599	5.593	(1.000)	369360	50.0000	
$ 52 Toluene-d8	98	7.317	7.323	(0.807)	354823	49.8712	48
* 61 Chlorobenzene-d5	117	9.071	9.076	(1.000)	287310	50.0000	
$ 72 Bromofluorobenzene	95	10.627	10.633	(1.172)	139356	48.2418	46
* 85 1,4-Dichlorobenzene-d4	152	12.241	12.235	(1.000)	146867	50.0000	(Q)

QC Flag Legend

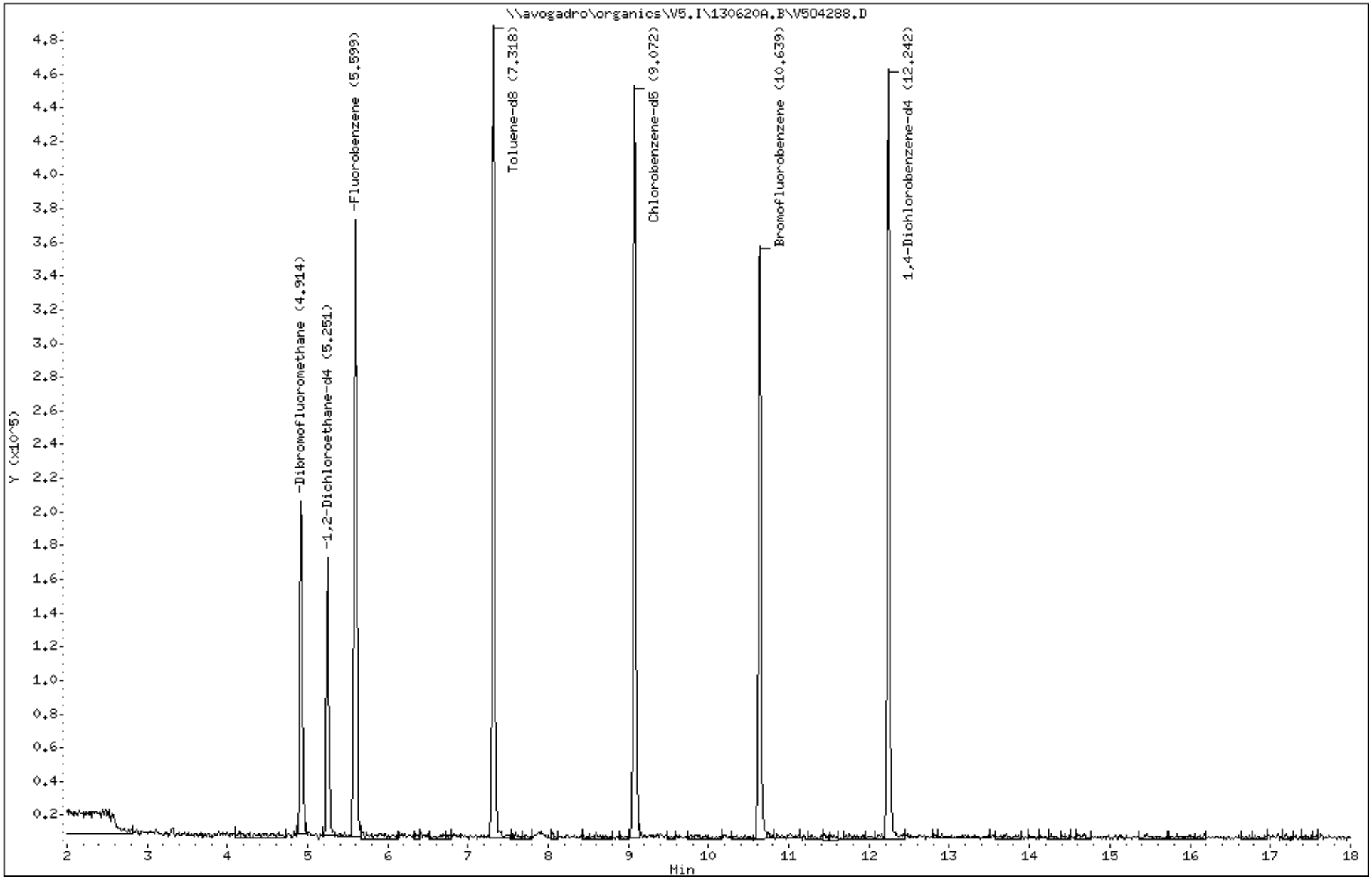
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504288.D
Date : 20-JUN-2013 20:24
Client ID: C-1-2-061313
Sample Info: 5G,M0975-08A,,72200

Instrument: V5.i

Operator: WL SRC: LIMS
Column diameter: 0.25

Column phase: DB-624



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2-3-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-09A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4289.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 26 Date Analyzed: 06/20/2013

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	6.6	U
74-87-3	Chloromethane	6.6	U
75-01-4	Vinyl chloride	6.6	U
74-83-9	Bromomethane	6.6	U
75-00-3	Chloroethane	6.6	U
75-69-4	Trichlorofluoromethane	6.6	U
75-35-4	1,1-Dichloroethene	6.6	U
67-64-1	Acetone	6.6	U
74-88-4	Iodomethane	6.6	U
75-15-0	Carbon disulfide	6.6	U
75-09-2	Methylene chloride	6.6	U
156-60-5	trans-1,2-Dichloroethene	6.6	U
1634-04-4	Methyl tert-butyl ether	6.6	U
75-34-3	1,1-Dichloroethane	6.6	U
108-05-4	Vinyl acetate	6.6	U
78-93-3	2-Butanone	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
594-20-7	2,2-Dichloropropane	6.6	U
74-97-5	Bromochloromethane	6.6	U
67-66-3	Chloroform	6.6	U
71-55-6	1,1,1-Trichloroethane	6.6	U
563-58-6	1,1-Dichloropropene	6.6	U
56-23-5	Carbon tetrachloride	6.6	U
107-06-2	1,2-Dichloroethane	6.6	U
71-43-2	Benzene	6.6	U
79-01-6	Trichloroethene	6.6	U
78-87-5	1,2-Dichloropropane	6.6	U
74-95-3	Dibromomethane	6.6	U
75-27-4	Bromodichloromethane	6.6	U
10061-01-5	cis-1,3-Dichloropropene	6.6	U
108-10-1	4-Methyl-2-pentanone	6.6	U
108-88-3	Toluene	6.6	U
10061-02-6	trans-1,3-Dichloropropene	6.6	U
79-00-5	1,1,2-Trichloroethane	6.6	U
142-28-9	1,3-Dichloropropane	6.6	U

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-09A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4289.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 26 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.6	U
591-78-6	2-Hexanone	6.6	U
124-48-1	Dibromochloromethane	6.6	U
106-93-4	1,2-Dibromoethane	6.6	U
108-90-7	Chlorobenzene	6.6	U
630-20-6	1,1,1,2-Tetrachloroethane	6.6	U
100-41-4	Ethylbenzene	6.6	U
179601-23-1	m,p-Xylene	6.6	U
95-47-6	o-Xylene	6.6	U
1330-20-7	Xylene (Total)	6.6	U
100-42-5	Styrene	6.6	U
75-25-2	Bromoform	6.6	U
98-82-8	Isopropylbenzene	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U
108-86-1	Bromobenzene	6.6	U
96-18-4	1,2,3-Trichloropropane	6.6	U
103-65-1	n-Propylbenzene	6.6	U
95-49-8	2-Chlorotoluene	6.6	U
108-67-8	1,3,5-Trimethylbenzene	6.6	U
106-43-4	4-Chlorotoluene	6.6	U
98-06-6	tert-Butylbenzene	6.6	U
95-63-6	1,2,4-Trimethylbenzene	6.6	U
135-98-8	sec-Butylbenzene	6.6	U
99-87-6	4-Isopropyltoluene	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
104-51-8	n-Butylbenzene	6.6	U
95-50-1	1,2-Dichlorobenzene	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
87-68-3	Hexachlorobutadiene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
91-20-3	Naphthalene	6.6	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4289.D
Report Date: 23-Jun-2013 10:43

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4289.D
Lab Smp Id: M0975-09A Client Smp ID: C-2-3-061313
Inj Date : 20-JUN-2013 20:50
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-09A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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	5.100	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	4.928	4.919	(0.880)	126082	50.9575	50
$ 38 1,2-Dichloroethane-d4	102	5.254	5.256	(0.938)	22032	53.1929	52
* 42 Fluorobenzene	96	5.602	5.593	(1.000)	359389	50.0000	
$ 52 Toluene-d8	98	7.321	7.323	(0.807)	346611	49.6648	49
* 61 Chlorobenzene-d5	117	9.074	9.076	(1.000)	281827	50.0000	
$ 72 Bromofluorobenzene	95	10.630	10.633	(1.171)	139987	49.4030	48
* 85 1,4-Dichlorobenzene-d4	152	12.245	12.235	(1.000)	139312	50.0000	(Q)

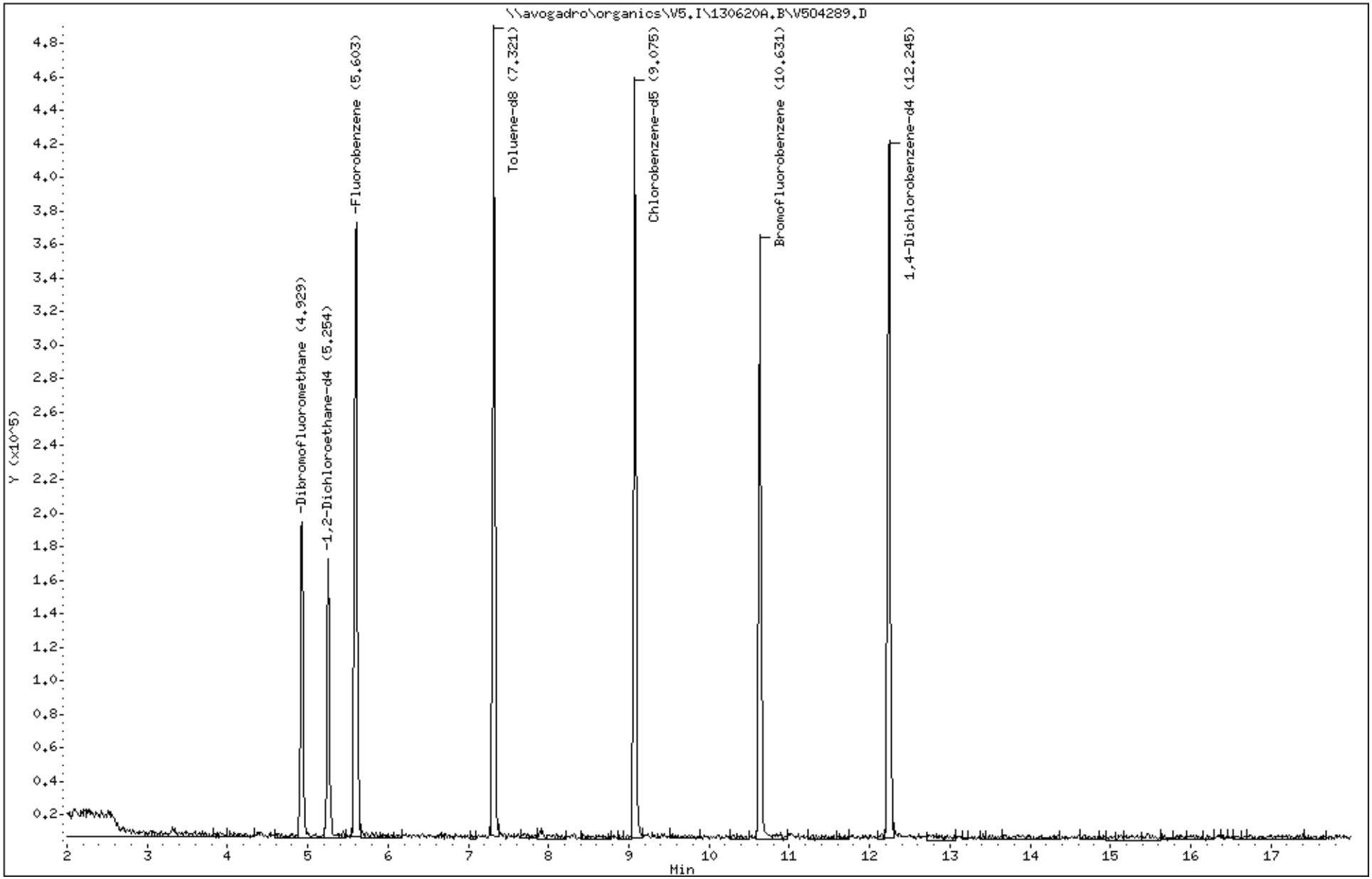
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504289.D
Date : 20-JUN-2013 20:50
Client ID: C-2-3-061313
Sample Info: 5G,M0975-09A,,72200

Instrument: V5.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.

C-3-2-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-10A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4290.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 23 Date Analyzed: 06/20/2013

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	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
67-64-1	Acetone	6.5	U
74-88-4	Iodomethane	6.5	U
75-15-0	Carbon disulfide	6.5	U
75-09-2	Methylene chloride	6.5	U
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
108-05-4	Vinyl acetate	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
594-20-7	2,2-Dichloropropane	6.5	U
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	6.5	U
71-55-6	1,1,1-Trichloroethane	6.5	U
563-58-6	1,1-Dichloropropene	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	6.5	U
79-01-6	Trichloroethene	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
74-95-3	Dibromomethane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
142-28-9	1,3-Dichloropropane	6.5	U

EPA SAMPLE NO.
C-3-2-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-10A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4290.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 23 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.5	U
591-78-6	2-Hexanone	6.5	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
630-20-6	1,1,1,2-Tetrachloroethane	6.5	U
100-41-4	Ethylbenzene	6.5	U
179601-23-1	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
1330-20-7	Xylene (Total)	6.5	U
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
108-86-1	Bromobenzene	6.5	U
96-18-4	1,2,3-Trichloropropane	6.5	U
103-65-1	n-Propylbenzene	6.5	U
95-49-8	2-Chlorotoluene	6.5	U
108-67-8	1,3,5-Trimethylbenzene	6.5	U
106-43-4	4-Chlorotoluene	6.5	U
98-06-6	tert-Butylbenzene	6.5	U
95-63-6	1,2,4-Trimethylbenzene	6.5	U
135-98-8	sec-Butylbenzene	6.5	U
99-87-6	4-Isopropyltoluene	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
104-51-8	n-Butylbenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-68-3	Hexachlorobutadiene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
91-20-3	Naphthalene	6.5	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4290.D
Report Date: 23-Jun-2013 10:43

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4290.D
Lab Smp Id: M0975-10A Client Smp ID: C-3-2-061313
Inj Date : 20-JUN-2013 21:16
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-10A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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

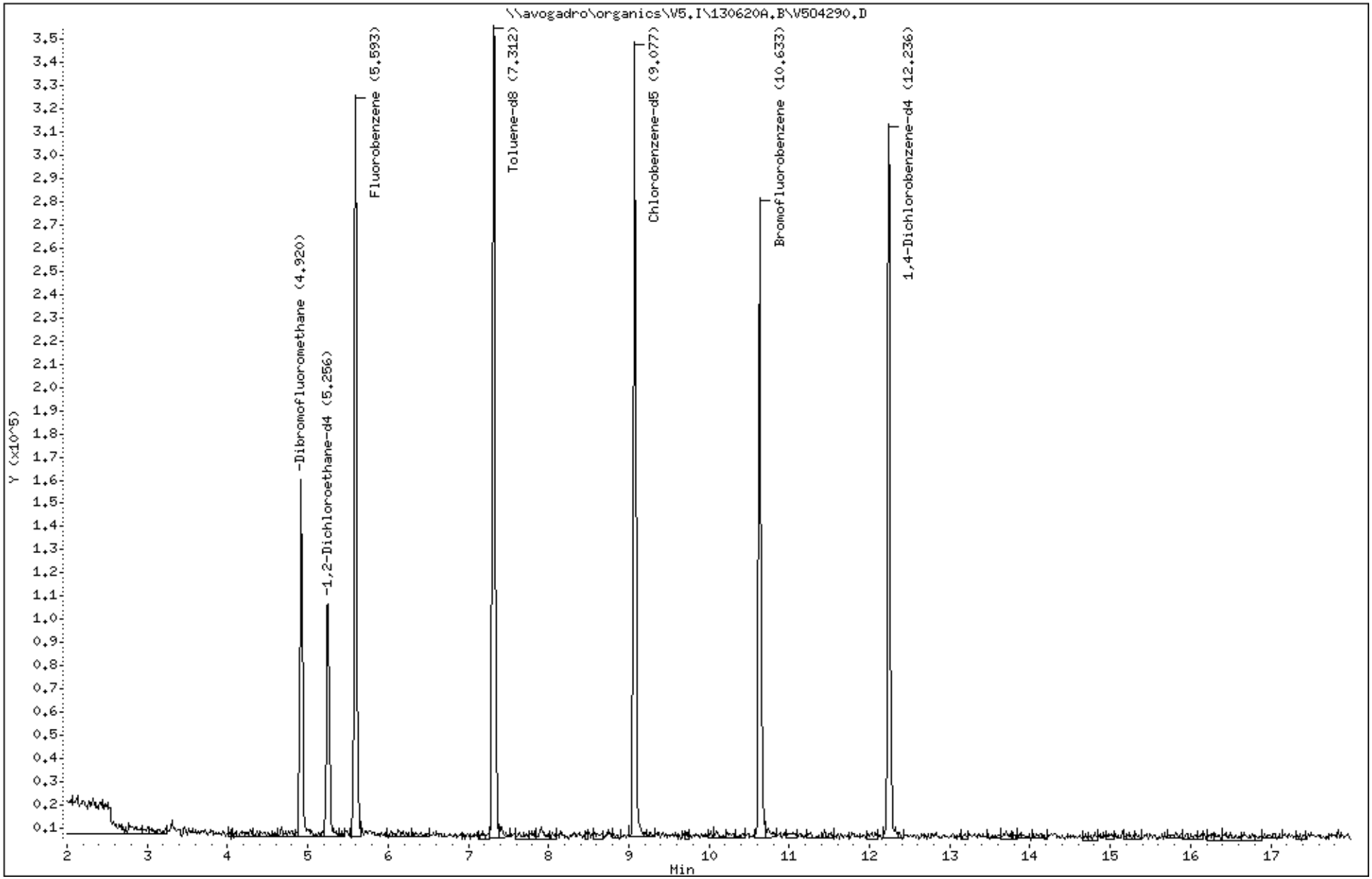
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	4.919	4.919	(0.880)	96732	47.5197	48
$ 38 1,2-Dichloroethane-d4	102	5.244	5.256	(0.938)	15702	46.0790	46
* 42 Fluorobenzene	96	5.593	5.593	(1.000)	295676	50.0000	
$ 52 Toluene-d8	98	7.323	7.323	(0.807)	273995	50.2258	50
* 61 Chlorobenzene-d5	117	9.077	9.076	(1.000)	220295	50.0000	
$ 72 Bromofluorobenzene	95	10.633	10.633	(1.171)	101950	46.0290	46
* 85 1,4-Dichlorobenzene-d4	152	12.235	12.235	(1.000)	101790	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504290.D
Date : 20-JUN-2013 21:16
Client ID: C-3-2-061313
Instrument: V5.i
Sample Info: 5G,M0975-10A,,72200
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.

D-1-1-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-12A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4291.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 17 Date Analyzed: 06/20/2013

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	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
74-88-4	Iodomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
108-05-4	Vinyl acetate	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
594-20-7	2,2-Dichloropropane	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
563-58-6	1,1-Dichloropropene	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
74-95-3	Dibromomethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
142-28-9	1,3-Dichloropropane	5.9	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-1-1-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-12A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4291.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 17 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
179601-23-1	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
1330-20-7	Xylene (Total)	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
108-86-1	Bromobenzene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
95-49-8	2-Chlorotoluene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
106-43-4	4-Chlorotoluene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
99-87-6	4-Isopropyltoluene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-68-3	Hexachlorobutadiene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
91-20-3	Naphthalene	5.9	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4291.D
Report Date: 23-Jun-2013 10:43

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4291.D
Lab Smp Id: M0975-12A Client Smp ID: D-1-1-061313
Inj Date : 20-JUN-2013 21:42
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-12A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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

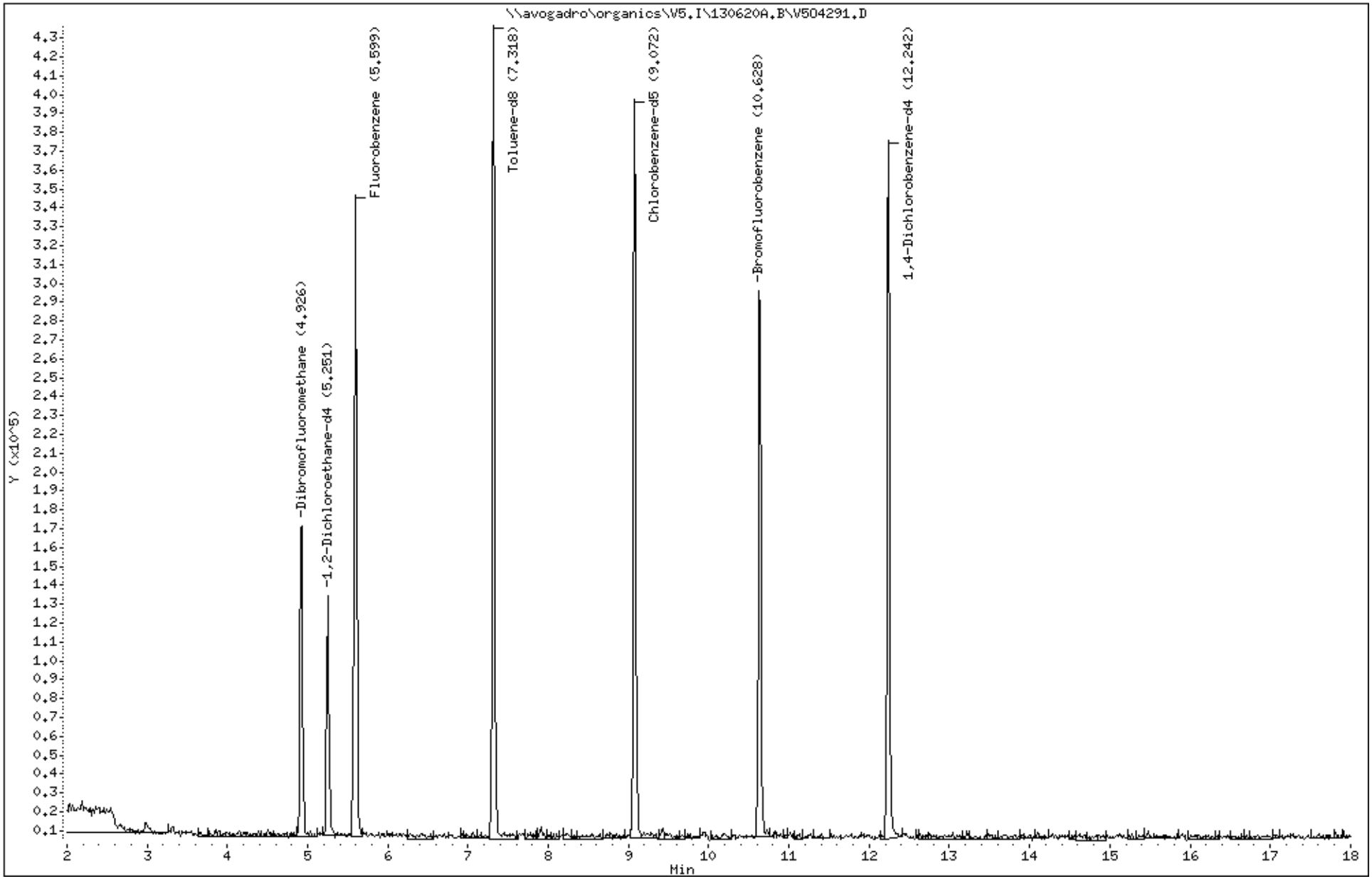
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.100	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	4.925	4.919	(0.880)	109615	47.2841	46
$ 38 1,2-Dichloroethane-d4	102	5.251	5.256	(0.938)	16801	43.2938	42(R)
* 42 Fluorobenzene	96	5.599	5.593	(1.000)	336724	50.0000	
$ 52 Toluene-d8	98	7.318	7.323	(0.807)	303160	50.7328	50
* 61 Chlorobenzene-d5	117	9.071	9.076	(1.000)	241308	50.0000	
$ 72 Bromofluorobenzene	95	10.627	10.633	(1.172)	113073	46.6053	46
* 85 1,4-Dichlorobenzene-d4	152	12.242	12.235	(1.000)	119795	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\V5.I\130620A.B\V504291.D
Date : 20-JUN-2013 21:42
Client ID: D-1-1-061313
Instrument: V5.i
Sample Info: 5G,M0975-12A,,72200
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.

D-3-4-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-13A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4292.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 19 Date Analyzed: 06/20/2013

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	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
67-64-1	Acetone	6.1	U
74-88-4	Iodomethane	6.1	U
75-15-0	Carbon disulfide	6.1	U
75-09-2	Methylene chloride	6.1	U
156-60-5	trans-1,2-Dichloroethene	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
108-05-4	Vinyl acetate	6.1	U
78-93-3	2-Butanone	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
594-20-7	2,2-Dichloropropane	6.1	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
563-58-6	1,1-Dichloropropene	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
71-43-2	Benzene	6.1	U
79-01-6	Trichloroethene	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
74-95-3	Dibromomethane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-pentanone	6.1	U
108-88-3	Toluene	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
142-28-9	1,3-Dichloropropane	6.1	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-3-4-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-13A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4292.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 19 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.1	U
591-78-6	2-Hexanone	6.1	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U
100-41-4	Ethylbenzene	6.1	U
179601-23-1	m,p-Xylene	6.1	U
95-47-6	o-Xylene	6.1	U
1330-20-7	Xylene (Total)	6.1	U
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
108-86-1	Bromobenzene	6.1	U
96-18-4	1,2,3-Trichloropropane	6.1	U
103-65-1	n-Propylbenzene	6.1	U
95-49-8	2-Chlorotoluene	6.1	U
108-67-8	1,3,5-Trimethylbenzene	6.1	U
106-43-4	4-Chlorotoluene	6.1	U
98-06-6	tert-Butylbenzene	6.1	U
95-63-6	1,2,4-Trimethylbenzene	6.1	U
135-98-8	sec-Butylbenzene	6.1	U
99-87-6	4-Isopropyltoluene	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
104-51-8	n-Butylbenzene	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-68-3	Hexachlorobutadiene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
91-20-3	Naphthalene	6.1	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4292.D
Report Date: 23-Jun-2013 10:43

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4292.D
Lab Smp Id: M0975-13A Client Smp ID: D-3-4-061313
Inj Date : 20-JUN-2013 22:08
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-13A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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	5.100	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	4.925	4.919	(0.880)	119382	49.1291	48
$ 38 1,2-Dichloroethane-d4	102	5.250	5.256	(0.938)	19761	48.5796	48
* 42 Fluorobenzene	96	5.599	5.593	(1.000)	352955	50.0000	
$ 52 Toluene-d8	98	7.317	7.323	(0.807)	333882	50.5288	50
* 61 Chlorobenzene-d5	117	9.071	9.076	(1.000)	266835	50.0000	
$ 72 Bromofluorobenzene	95	10.627	10.633	(1.172)	123606	46.0729	45
* 85 1,4-Dichlorobenzene-d4	152	12.241	12.235	(1.000)	136781	50.0000	(Q)

QC Flag Legend

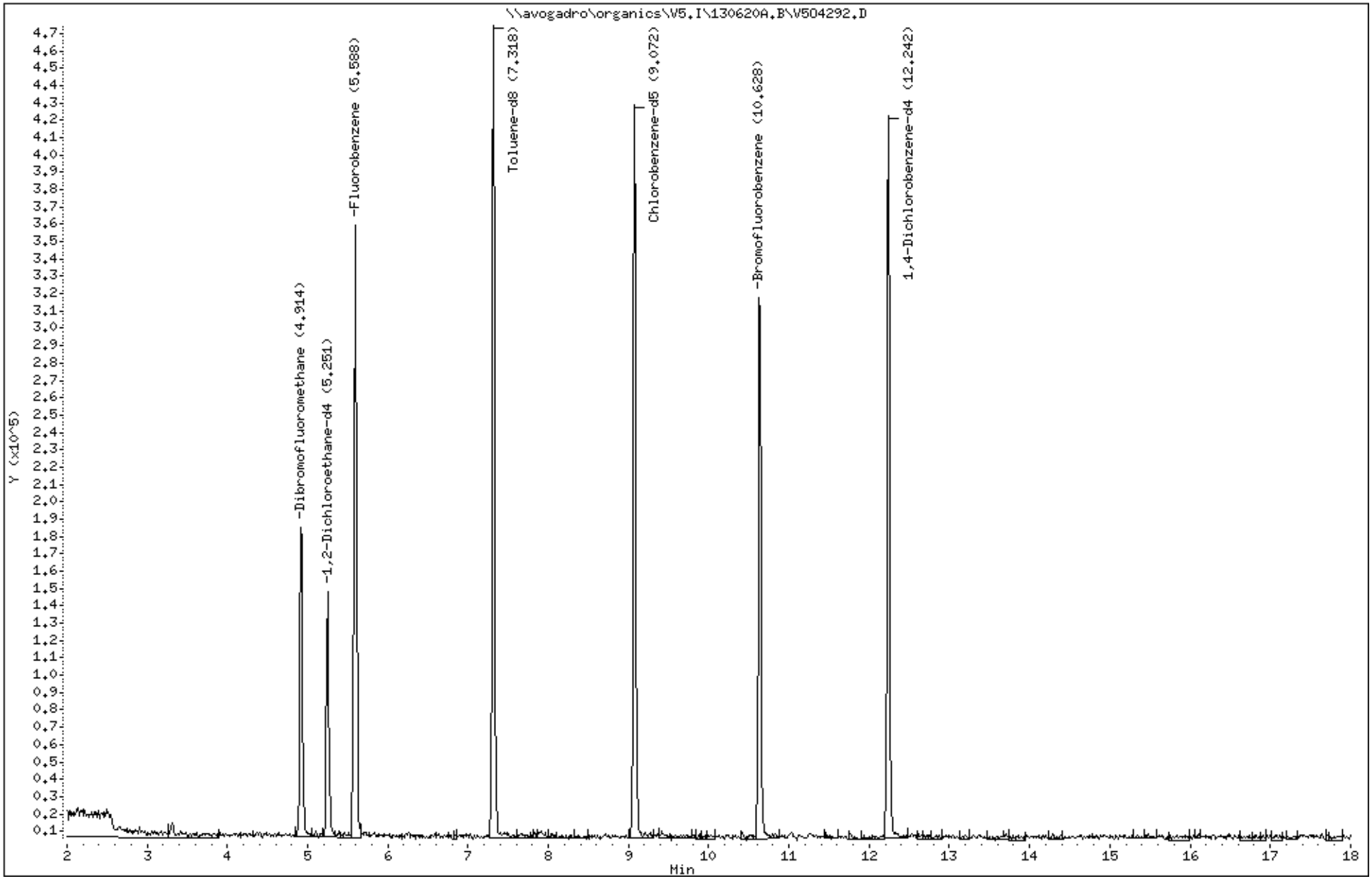
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504292.D
Date : 20-JUN-2013 22:08
Client ID: D-3-4-061313
Sample Info: 5G,M0975-13A,,72200

Instrument: V5.i

Operator: WL SRC: LIMS
Column diameter: 0.25

Column phase: DB-624



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E-1-3-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-15A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4293.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 16 Date Analyzed: 06/20/2013

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	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
74-88-4	Iodomethane	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
108-05-4	Vinyl acetate	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
594-20-7	2,2-Dichloropropane	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
563-58-6	1,1-Dichloropropene	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
74-95-3	Dibromomethane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
142-28-9	1,3-Dichloropropane	5.9	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E-1-3-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-15A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4293.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 16 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
100-41-4	Ethylbenzene	5.9	U
179601-23-1	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
1330-20-7	Xylene (Total)	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
108-86-1	Bromobenzene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
95-49-8	2-Chlorotoluene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
106-43-4	4-Chlorotoluene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
99-87-6	4-Isopropyltoluene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-68-3	Hexachlorobutadiene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
91-20-3	Naphthalene	5.9	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4293.D
Report Date: 23-Jun-2013 10:43

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4293.D
Lab Smp Id: M0975-15A Client Smp ID: E-1-3-061313
Inj Date : 20-JUN-2013 22:34
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-15A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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

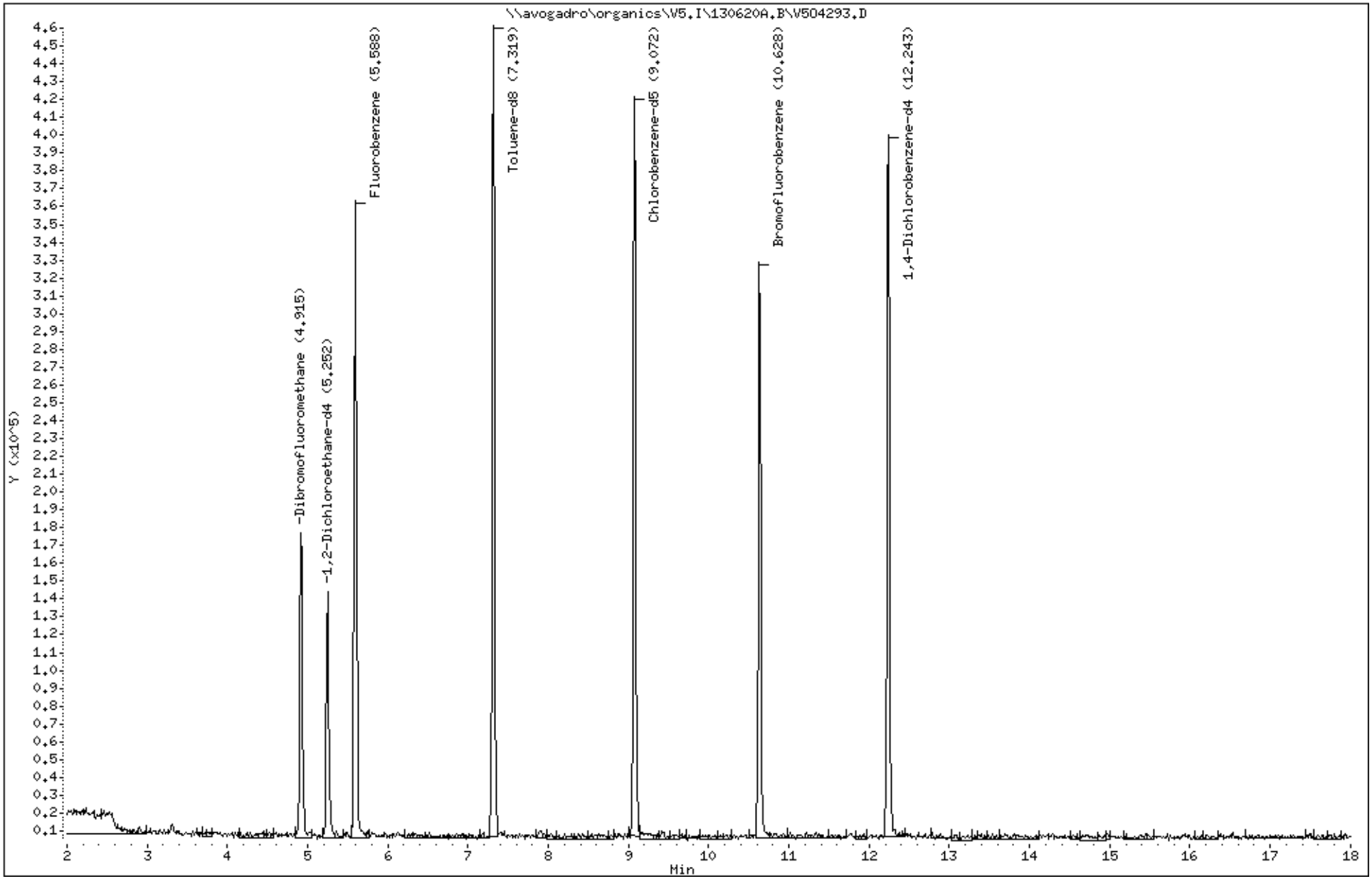
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	4.914	4.919	(0.879)	112640	47.3597	47
$ 38 1,2-Dichloroethane-d4	102	5.251	5.256	(0.940)	19018	47.7668	48
* 42 Fluorobenzene	96	5.588	5.593	(1.000)	345464	50.0000	
$ 52 Toluene-d8	98	7.318	7.323	(0.807)	327408	49.5453	50
* 61 Chlorobenzene-d5	117	9.072	9.076	(1.000)	266855	50.0000	
$ 72 Bromofluorobenzene	95	10.628	10.633	(1.172)	126249	47.0545	47
* 85 1,4-Dichlorobenzene-d4	152	12.242	12.235	(1.000)	128048	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504293.D
Date : 20-JUN-2013 22:34
Client ID: E-1-3-061313
Instrument: V5.i
Sample Info: 5G,M0975-15A,,72200
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.

E-2-4-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-16A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4294.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 25 Date Analyzed: 06/20/2013

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	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
67-64-1	Acetone	6.5	U
74-88-4	Iodomethane	6.5	U
75-15-0	Carbon disulfide	6.5	U
75-09-2	Methylene chloride	6.5	U
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
108-05-4	Vinyl acetate	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
594-20-7	2,2-Dichloropropane	6.5	U
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	6.5	U
71-55-6	1,1,1-Trichloroethane	6.5	U
563-58-6	1,1-Dichloropropene	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	6.5	U
79-01-6	Trichloroethene	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
74-95-3	Dibromomethane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
142-28-9	1,3-Dichloropropane	6.5	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E-2-4-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-16A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4294.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 25 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.5	U
591-78-6	2-Hexanone	6.5	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
630-20-6	1,1,1,2-Tetrachloroethane	6.5	U
100-41-4	Ethylbenzene	6.5	U
179601-23-1	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
1330-20-7	Xylene (Total)	6.5	U
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
108-86-1	Bromobenzene	6.5	U
96-18-4	1,2,3-Trichloropropane	6.5	U
103-65-1	n-Propylbenzene	6.5	U
95-49-8	2-Chlorotoluene	6.5	U
108-67-8	1,3,5-Trimethylbenzene	6.5	U
106-43-4	4-Chlorotoluene	6.5	U
98-06-6	tert-Butylbenzene	6.5	U
95-63-6	1,2,4-Trimethylbenzene	6.5	U
135-98-8	sec-Butylbenzene	6.5	U
99-87-6	4-Isopropyltoluene	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
104-51-8	n-Butylbenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-68-3	Hexachlorobutadiene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
91-20-3	Naphthalene	6.5	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4294.D
Report Date: 23-Jun-2013 10:43

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4294.D
Lab Smp Id: M0975-16A Client Smp ID: E-2-4-061313
Inj Date : 20-JUN-2013 23:00
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-16A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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	5.100	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	4.919	4.919	(0.880)	121393	49.5953	49
$ 38 1,2-Dichloroethane-d4	102	5.255	5.256	(0.940)	20845	50.8738	50
* 42 Fluorobenzene	96	5.592	5.593	(1.000)	355527	50.0000	
$ 52 Toluene-d8	98	7.322	7.323	(0.807)	336220	49.7927	49
* 61 Chlorobenzene-d5	117	9.076	9.076	(1.000)	272676	50.0000	
$ 72 Bromofluorobenzene	95	10.632	10.633	(1.171)	131361	47.9146	47
* 85 1,4-Dichlorobenzene-d4	152	12.235	12.235	(1.000)	137450	50.0000	(Q)

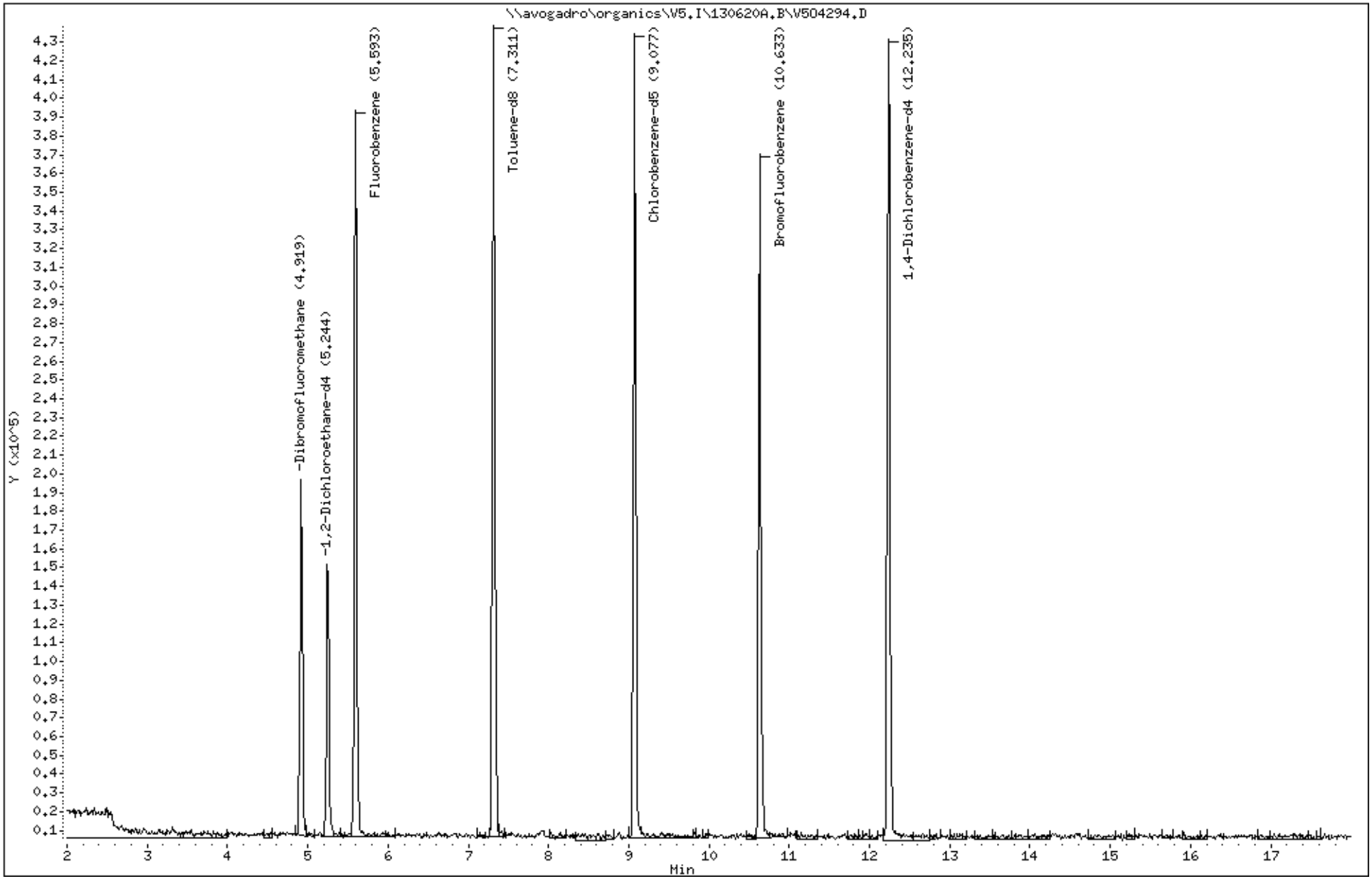
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504294.D
Date : 20-JUN-2013 23:00
Client ID: E-2-4-061313
Sample Info: 5G,M0975-16A,,72200

Instrument: V5.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.

E-3-2-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-17A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4295.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 23 Date Analyzed: 06/20/2013

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	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
67-64-1	Acetone	6.4	U
74-88-4	Iodomethane	6.4	U
75-15-0	Carbon disulfide	6.4	U
75-09-2	Methylene chloride	6.4	U
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
108-05-4	Vinyl acetate	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
594-20-7	2,2-Dichloropropane	6.4	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
563-58-6	1,1-Dichloropropene	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
71-43-2	Benzene	6.4	U
79-01-6	Trichloroethene	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
74-95-3	Dibromomethane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
142-28-9	1,3-Dichloropropane	6.4	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E-3-2-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-17A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O4295.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/14/2013

% Moisture: not dec. 23 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	6.4	U
591-78-6	2-Hexanone	6.4	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
630-20-6	1,1,1,2-Tetrachloroethane	6.4	U
100-41-4	Ethylbenzene	6.4	U
179601-23-1	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
1330-20-7	Xylene (Total)	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
108-86-1	Bromobenzene	6.4	U
96-18-4	1,2,3-Trichloropropane	6.4	U
103-65-1	n-Propylbenzene	6.4	U
95-49-8	2-Chlorotoluene	6.4	U
108-67-8	1,3,5-Trimethylbenzene	6.4	U
106-43-4	4-Chlorotoluene	6.4	U
98-06-6	tert-Butylbenzene	6.4	U
95-63-6	1,2,4-Trimethylbenzene	6.4	U
135-98-8	sec-Butylbenzene	6.4	U
99-87-6	4-Isopropyltoluene	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
104-51-8	n-Butylbenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-68-3	Hexachlorobutadiene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
91-20-3	Naphthalene	6.4	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4295.D
Report Date: 23-Jun-2013 10:43

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4295.D
Lab Smp Id: M0975-17A Client Smp ID: E-3-2-061313
Inj Date : 20-JUN-2013 23:26
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,M0975-17A,,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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

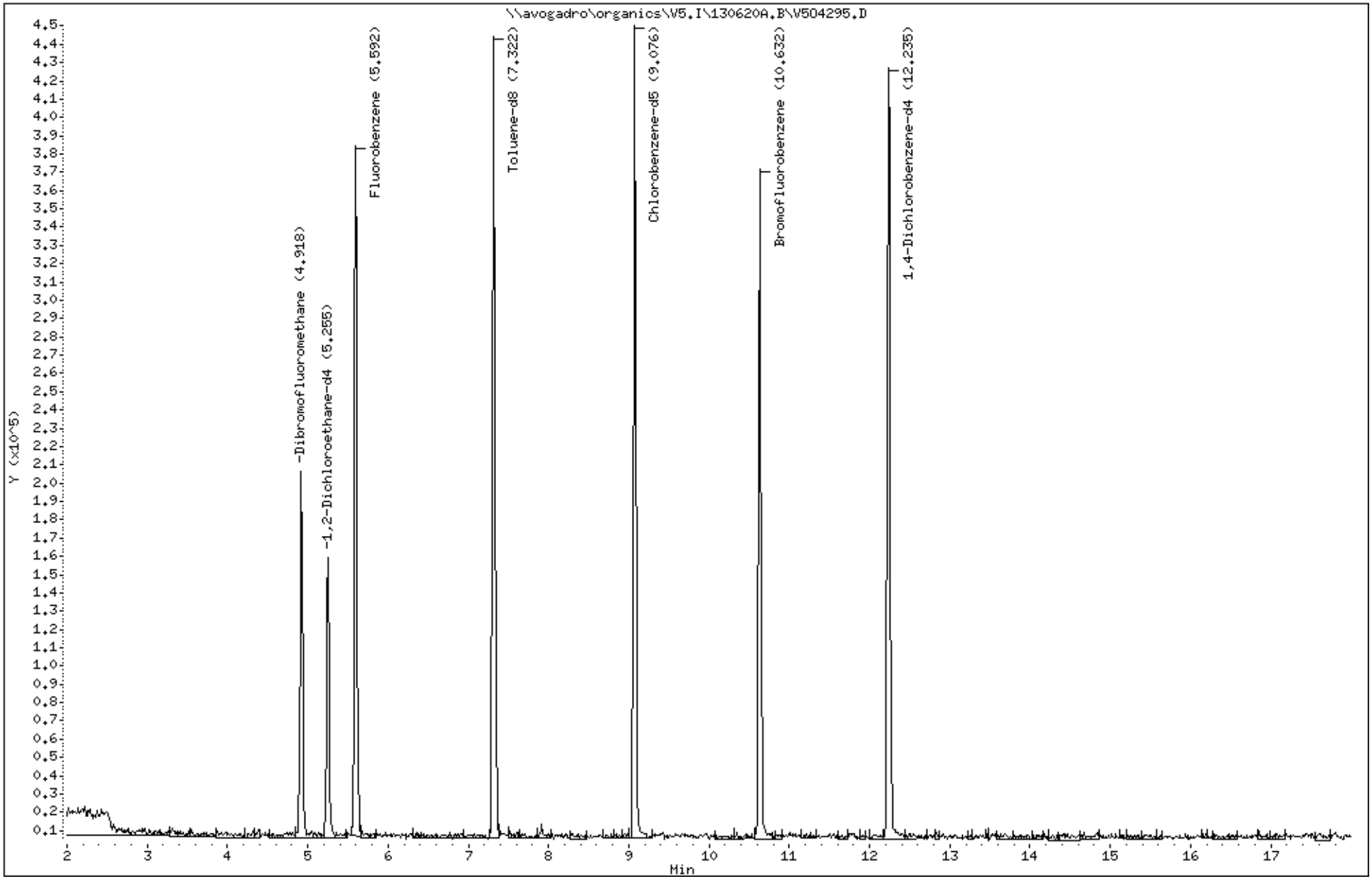
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.100	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	4.918	4.919	(0.880)	122961	49.7285	49
$ 38 1,2-Dichloroethane-d4	102	5.255	5.256	(0.940)	21117	51.0170	50
* 42 Fluorobenzene	96	5.591	5.593	(1.000)	359155	50.0000	
$ 52 Toluene-d8	98	7.322	7.323	(0.807)	337114	49.9525	49
* 61 Chlorobenzene-d5	117	9.075	9.076	(1.000)	272526	50.0000	
$ 72 Bromofluorobenzene	95	10.632	10.633	(1.171)	139091	50.7621	50
* 85 1,4-Dichlorobenzene-d4	152	12.234	12.235	(1.000)	140653	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504295.D
Date : 20-JUN-2013 23:26
Client ID: E-3-2-061313
Instrument: V5.i
Sample Info: 5G,M0975-17A,,72200
Operator: WL SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



6A - FORM VI VOA-1

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: V5 Calibration Date(s): 06/20/2013 06/20/2013

Heated Purge: (Y/N) Y Calibration Time(s): 9:57 14:45

Purge Volume: 5.0 (mL)

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

LAB FILE ID: RRF005 = V5O4271.D RRF020 = V5O4272.D

RRF050 = V5O4273.D RRF100 = V5O4274.D RRF200 = V5O4275.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.705	0.673	0.736	0.707	0.639	0.692	5.4
Chloromethane	0.767	0.684	0.711	0.713	0.705	0.716	4.3
Vinyl chloride	0.623	0.592	0.625	0.649	0.617	0.621	3.3
Bromomethane	0.475	0.414	0.441	0.434	0.406	0.434	6.3
Chloroethane	0.343	0.296	0.316	0.322	0.298	0.315	6.1
Trichlorofluoromethane	0.960	0.834	0.901	0.849	0.826	0.874	6.4
1,1-Dichloroethene	0.438	0.395	0.430	0.380	0.370	0.403	7.5
Acetone	0.171	0.142	0.133	0.086	0.083	0.123	30.8
Iodomethane	0.803	0.754	0.806	0.703	0.697	0.752	7.0
Carbon disulfide	1.372	1.329	1.450	1.276	1.249	1.335	6.0
Methylene chloride	0.585	0.487	0.494	0.401	0.391	0.472	16.8
trans-1,2-Dichloroethene	0.471	0.427	0.467	0.409	0.407	0.436	7.1
Methyl tert-butyl ether	0.901	0.904	0.938	0.702	0.709	0.831	13.9
1,1-Dichloroethane	0.891	0.887	0.911	0.774	0.772	0.847	8.0
Vinyl acetate	1.263	1.181	1.212	0.993	0.970	1.124	11.9
2-Butanone	0.137	0.128	0.131	0.083	0.080	0.112	24.9
cis-1,2-Dichloroethene	0.485	0.448	0.468	0.406	0.395	0.440	8.8
2,2-Dichloropropane	0.748	0.640	0.684	0.602	0.592	0.653	9.8
Bromochloromethane	0.223	0.224	0.233	0.181	0.188	0.210	11.3
Chloroform	0.861	0.815	0.843	0.704	0.712	0.787	9.4
1,1,1-Trichloroethane	0.697	0.668	0.715	0.622	0.616	0.664	6.6
1,1-Dichloropropene	0.204	0.193	0.206	0.190	0.187	0.196	4.4
Carbon tetrachloride	0.612	0.572	0.618	0.545	0.553	0.580	5.8
1,2-Dichloroethane	0.598	0.514	0.556	0.442	0.422	0.506	14.7
Benzene	1.682	1.522	1.598	1.445	1.356	1.521	8.4
Trichloroethene	0.456	0.411	0.437	0.358	0.383	0.409	9.7
1,2-Dichloropropane	0.471	0.432	0.462	0.373	0.375	0.422	11.1
Dibromomethane	0.296	0.271	0.275	0.212	0.211	0.253	15.5
Bromodichloromethane	0.537	0.527	0.565	0.464	0.469	0.512	8.7
cis-1,3-Dichloropropene	0.594	0.579	0.635	0.510	0.524	0.568	9.1
4-Methyl-2-pentanone	1.206	1.271	1.311	0.851	0.888	1.106	19.8
Toluene	1.536	1.460	1.500	1.341	1.287	1.425	7.5
trans-1,3-Dichloropropene	0.450	0.461	0.541	0.404	0.426	0.457	11.4
1,1,2-Trichloroethane	0.349	0.296	0.306	0.231	0.230	0.282	18.2
1,3-Dichloropropane	0.688	0.677	0.690	0.529	0.518	0.620	14.3
Tetrachloroethene	0.466	0.466	0.497	0.446	0.418	0.459	6.4
2-Hexanone	0.993	1.107	1.166	0.759	0.786	0.962	19.2
Dibromochloromethane	0.449	0.464	0.514	0.379	0.390	0.439	12.6
1,2-Dibromoethane	0.456	0.424	0.440	0.315	0.329	0.393	16.7

6B - FORM VI VOA-2

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: V5 Calibration Date(s): 06/20/2013 06/20/2013

Heated Purge: (Y/N) Y Calibration Time(s): 9:57 14:45

Purge Volume: 5.0 (mL)

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

LAB FILE ID: RRF005 = V5O4271.D RRF020 = V5O4272.D

RRF050 = V5O4273.D RRF100 = V5O4274.D RRF200 = V5O4275.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	%RSD
Chlorobenzene	1.327	1.246	1.248	1.104	1.037	1.192	9.9
1,1,1,2-Tetrachloroethane	0.445	0.484	0.493	0.420	0.408	0.450	8.4
Ethylbenzene	0.635	0.640	0.657	0.602	0.587	0.624	4.6
m,p-Xylene	0.825	0.788	0.778	0.728	0.694	0.763	6.8
o-Xylene	0.790	0.794	0.801	0.701	0.689	0.755	7.3
Xylene (Total)	0.813	0.790	0.786	0.719	0.692	0.760	6.8
Styrene	1.195	1.247	1.299	1.114	1.089	1.189	7.4
Bromoform	0.261	0.280	0.329	0.223	0.238	0.266	15.5
Isopropylbenzene	1.976	2.078	2.162	1.970	1.883	2.014	5.3
1,1,2,2-Tetrachloroethane	1.077	1.021	1.049	0.751	0.709	0.921	19.1
Bromobenzene	1.146	1.083	1.161	0.951	0.876	1.043	12.0
1,2,3-Trichloropropane	0.896	0.978	0.960	0.653	0.651	0.828	19.7
n-Propylbenzene	0.988	1.006	1.050	0.965	0.881	0.978	6.4
2-Chlorotoluene	0.940	0.933	0.953	0.893	0.813	0.907	6.3
1,3,5-Trimethylbenzene	3.137	3.150	3.242	2.964	2.710	3.040	6.9
4-Chlorotoluene	0.956	0.935	0.987	0.890	0.838	0.921	6.3
tert-Butylbenzene	2.987	3.103	3.240	2.933	2.704	2.993	6.7
1,2,4-Trimethylbenzene	3.014	3.084	3.259	2.875	2.652	2.977	7.7
sec-Butylbenzene	4.289	4.286	4.553	4.288	3.855	4.254	5.9
4-Isopropyltoluene	3.380	3.319	3.445	3.130	2.928	3.240	6.5
1,3-Dichlorobenzene	1.924	1.898	2.075	1.763	1.631	1.858	9.1
1,4-Dichlorobenzene	1.833	1.861	1.873	1.526	1.404	1.699	12.9
n-Butylbenzene	3.810	3.736	3.888	3.388	3.110	3.586	9.1
1,2-Dichlorobenzene	1.982	1.964	2.046	1.734	1.647	1.874	9.3
1,2-Dibromo-3-chloropropane	0.128	0.136	0.149	0.085	0.088	0.117	24.7
1,2,4-Trichlorobenzene	1.318	1.375	1.434	1.158	1.116	1.280	10.8
Hexachlorobutadiene	0.932	0.954	1.082	0.917	0.876	0.952	8.2
1,2,3-Trichlorobenzene	1.198	1.213	1.381	1.038	0.940	1.154	14.8
Naphthalene	1.051	1.513	1.949	2.235	1.200	1.589	31.4

6C - FORM VI VOA-3

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: V5 Calibration Date(s): 06/20/2013 06/20/2013

Heated Purge: (Y/N) Y Calibration Time(s): 9:57 14:45

Purge Volume: 5.0 (mL)

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

LAB FILE ID: RRF005 = V5O4271.D RRF020 = V5O4272.D

RRF050 = V5O4273.D RRF100 = V5O4274.D RRF200 = V5O4275.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	%RSD
Dibromofluoromethane	0.354	0.339	0.347	0.339	0.342	0.344	1.8
1,2-Dichloroethane-d4	0.059	0.056	0.057	0.057	0.059	0.058	2.5
Toluene-d8	1.238	1.230	1.217	1.258	1.247	1.238	1.3
Bromofluorobenzene	0.499	0.498	0.509	0.493	0.515	0.503	1.7

Data File: \\avogadro\organics\V5.I\130620.B\V5O4271.D
Report Date: 23-Jun-2013 10:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620.B\V5O4271.D
Lab Smp Id: VSTD005V5 Client Smp ID: VSTD005V5
Inj Date : 20-JUN-2013 09:57
Operator : WL   SRC: WL Inst ID: V5.i
Smp Info : 5G,VSTD005V5,VSTD005V5
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620.B\v58260GH.m
Meth Date : 21-Jun-2013 09:32 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 09:57 Cal File: V5O4271.D
Als bottle: 3 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)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.586	1.592	(0.284)	25542	5.00000	5
2	Chloromethane	50	1.702	1.708	(0.304)	27805	5.00000	5
3	Vinyl Chloride	62	1.818	1.836	(0.325)	22569	5.00000	5
4	Bromomethane	94	2.132	2.127	(0.381)	17236	5.00000	5
5	Chloroethane	64	2.213	2.219	(0.396)	12425	5.00000	5
6	Trichlorofluoromethane	101	2.445	2.440	(0.437)	34813	5.00000	5
7	Ethanol	46	2.608	2.603	(0.466)	7253	500.000	630(AQ)
8	Ether	59	2.677	2.684	(0.479)	11823	5.00000	6(Q)
9	Acrolein	56	2.794	2.800	(0.500)	15369	25.0000	31
10	1,1-Dichloroethene	96	2.886	2.893	(0.516)	15888	5.00000	5
11	1,1,2-Trichloro-1,2,2-trifluo	101	2.921	2.928	(0.522)	18820	5.00000	6
12	Acetone	58	2.933	2.928	(0.524)	6182	5.00000	7
13	Iodomethane	142	3.026	3.021	(0.541)	29103	5.00000	5
14	Carbon Disulfide	76	3.084	3.090	(0.551)	49741	5.00000	5
15	Acetonitrile	40	3.188	3.183	(0.570)	12378	50.0000	59(Q)
16	Methyl Acetate	43	3.223	3.218	(0.576)	12070	5.00000	6
17	Methylene Chloride	84	3.305	3.311	(0.591)	21203	5.00000	6
18	tert-Butanol	59	3.421	3.427	(0.612)	2649	10.0000	13
19	Acrylonitrile	53	3.525	3.532	(0.630)	3798	5.00000	5
20	trans-1,2-Dichloroethene	96	3.560	3.567	(0.637)	17085	5.00000	5
21	Methyl tert-butyl ether	73	3.572	3.567	(0.639)	32675	5.00000	5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 1,1-Dichloroethane	63	3.932	3.938	(0.703)	32295	5.00000	5
	23 Vinyl acetate	43	3.990	3.985	(0.713)	45803	5.00000	6
	24 Diisopropyl Ether	45	4.001	4.008	(0.716)	59452	5.00000	6
	25 Ethyl tert-butyl ether	59	4.338	4.345	(0.776)	42406	5.00000	5
	26 cis-1,2-Dichloroethene	96	4.466	4.472	(0.799)	17584	5.00000	6
	27 2-Butanone	72	4.477	4.472	(0.801)	4964	5.00000	6(Q)
	28 2,2-Dichloropropane	77	4.477	4.484	(0.801)	27131	5.00000	6
	29 Bromochloromethane	128	4.698	4.693	(0.840)	8090	5.00000	5(Q)
	30 Tetrahydrofuran	72	4.745	4.751	(0.848)	2343	10.0000	11
	31 Chloroform	83	4.768	4.763	(0.853)	31219	5.00000	5
$	32 Dibromofluoromethane	113	4.919	4.925	(0.880)	128231	50.0000	51
	33 1,1,1-Trichloroethane	97	4.954	4.960	(0.886)	25259	5.00000	5
	34 Cyclohexane	56	5.023	5.030	(0.898)	26062	5.00000	5
	35 1,1-Dichloropropene	110	5.116	5.111	(0.915)	7388	5.00000	5
	36 Carbon Tetrachloride	117	5.128	5.123	(0.917)	22202	5.00000	5
M	37 1,2-dichloroethene, (Total)	100				34669	10.0000	11
$	38 1,2-Dichloroethane-d4	102	5.256	5.250	(0.940)	21542	50.0000	52
	39 Benzene	78	5.314	5.320	(0.950)	60973	5.00000	6
	40 1,2-Dichloroethane	62	5.325	5.332	(0.952)	21672	5.00000	6
	41 tert-Amyl methyl ether	73	5.430	5.436	(0.971)	35435	5.00000	6
*	42 Fluorobenzene	96	5.592	5.599	(1.000)	362551	50.0000	
	43 Trichloroethene	130	5.976	5.982	(1.069)	16519	5.00000	6
	44 Methylcyclohexane	83	6.196	6.191	(1.108)	23776	5.00000	5
	45 1,2-Dichloropropane	63	6.208	6.214	(1.110)	17083	5.00000	6
	46 2-Chloroethyl vinyl ether	63	6.208	6.214	(1.110)	17083	5.00000	6(T)
	47 Dibromomethane	93	6.336	6.330	(1.133)	10738	5.00000	6
	48 1,4-Dioxane	88	6.359	6.354	(1.137)	1863	100.000	110
	49 Bromodichloromethane	83	6.498	6.505	(1.162)	19483	5.00000	5
	50 cis-1,3-Dichloropropene	75	6.997	7.004	(1.251)	21537	5.00000	5
	51 4-Methyl-2-pentanone	43	7.183	7.178	(1.284)	43723	5.00000	5
$	52 Toluene-d8	98	7.311	7.318	(0.806)	343506	50.0000	50
	53 Toluene	91	7.392	7.399	(1.322)	55683	5.00000	5
	54 trans-1,3-Dichloropropene	75	7.648	7.643	(1.368)	16326	5.00000	5
	55 1,1,2-Trichloroethane	97	7.868	7.863	(1.407)	12643	5.00000	6
	56 Tetrachloroethene	164	8.043	8.049	(0.886)	12917	5.00000	5
	57 1,3-Dichloropropane	76	8.066	8.061	(0.889)	19092	5.00000	6
	58 2-Hexanone	43	8.182	8.177	(0.901)	27549	5.00000	5
	59 Dibromochloromethane	129	8.345	8.340	(0.919)	12459	5.00000	5(T)
	60 1,2-Dibromoethane	107	8.484	8.479	(0.935)	12652	5.00000	6
*	61 Chlorobenzene-d5	117	9.076	9.071	(1.000)	277369	50.0000	
	62 1-Chlorohexane	91	9.099	9.094	(1.003)	19665	5.00000	5(Q)
	63 Chlorobenzene	112	9.111	9.106	(1.004)	36816	5.00000	6
	64 1,1,1,2-Tetrachloroethane	131	9.216	9.222	(1.015)	12351	5.00000	5
	65 Ethylbenzene	106	9.262	9.257	(1.020)	17605	5.00000	5
	66 m,p-Xylene	106	9.425	9.420	(1.038)	45770	10.0000	11
	67 o-Xylene	106	9.936	9.931	(1.095)	21915	5.00000	5
	68 Styrene	104	9.959	9.954	(1.097)	33145	5.00000	5
	69 Bromoform	173	10.179	10.186	(1.122)	7249	5.00000	5
	70 Isopropylbenzene	105	10.435	10.441	(1.150)	54820	5.00000	5
	71 trans-1,4-Dichloro-2-butene	75	10.528	10.523	(1.160)	2934	5.00000	5(Q)
$	72 Bromofluorobenzene	95	10.632	10.627	(1.171)	138545	50.0000	50
	73 Bromobenzene	156	10.830	10.825	(0.885)	17072	5.00000	5
	74 1,1,2,2-Tetrachloroethane	83	10.830	10.836	(0.885)	16043	5.00000	6
	75 1,2,3-Trichloropropane	75	10.888	10.894	(0.890)	13351	5.00000	5

Data File: \\avogadro\organics\V5.I\130620.B\V5O4271.D
Report Date: 23-Jun-2013 10:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
76	n-Propylbenzene	120	11.004	10.999	(0.899)	14720	5.00000	5(Q)
77	2-Chlorotoluene	126	11.108	11.103	(0.908)	14006	5.00000	5(Q)
78	4-Chlorotoluene	126	11.259	11.254	(0.920)	14237	5.00000	5(Q)
79	1,3,5-Trimethylbenzene	105	11.259	11.254	(0.920)	46739	5.00000	5
80	tert-Butylbenzene	119	11.701	11.707	(0.956)	44497	5.00000	5
81	1,2,4-Trimethylbenzene	105	11.770	11.777	(0.962)	44907	5.00000	5
82	sec-Butylbenzene	105	12.014	12.009	(0.982)	63903	5.00000	5
83	1,3-Dichlorobenzene	146	12.142	12.149	(0.992)	28671	5.00000	5
84	4-Isopropyltoluene	119	12.235	12.230	(1.000)	50352	5.00000	5
* 85	1,4-Dichlorobenzene-d4	152	12.235	12.242	(1.000)	148988	50.0000	(Q)
86	1,2-Dichlorobenzene	146	12.270	12.276	(1.003)	29530	5.00000	5
M 87	Xylene (Total)	106				67685	15.0000	16
88	1,4-Dichlorobenzene	146	12.792	12.799	(1.046)	27307	5.00000	5
89	n-Butylbenzene	91	12.816	12.811	(1.047)	56757	5.00000	5
90	1,2-Dibromo-3-chloropropane	75	13.907	13.914	(1.137)	1903	5.00000	5(Q)
91	1,3,5-Trichlorobenzene	180	15.127	15.122	(2.705)	19640	5.00000	5
92	1,2,4-Trichlorobenzene	180	15.127	15.122	(1.236)	19640	5.00000	5
93	Hexachlorobutadiene	225	15.405	15.400	(1.259)	13887	5.00000	5
94	Naphthalene	128	15.463	15.470	(1.264)	15654	5.00000	3
95	1,2,3-Trichlorobenzene	180	15.823	15.818	(1.293)	17851	5.00000	5

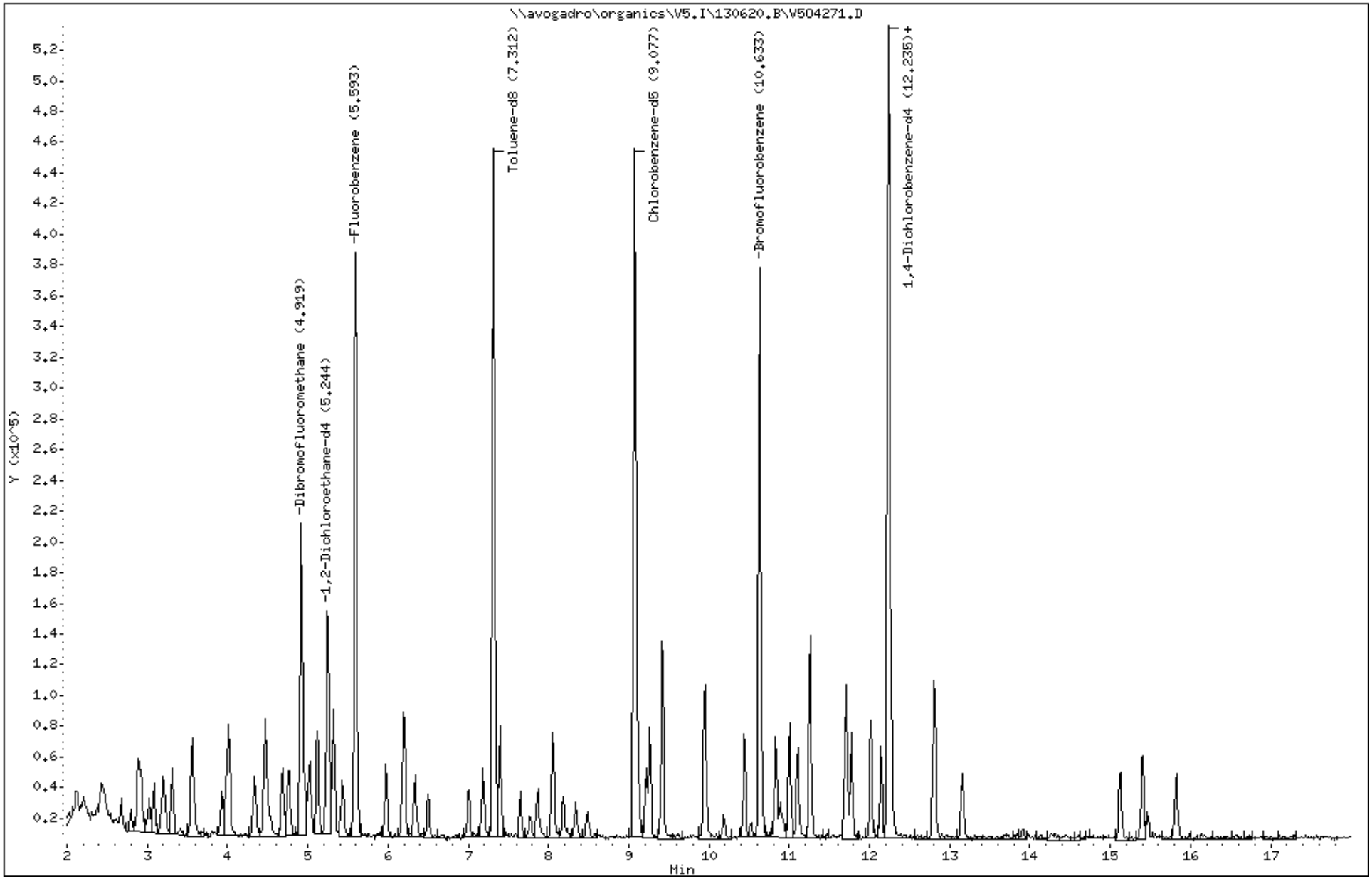
QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620.B\V504271.D
Date : 20-JUN-2013 09:57
Client ID: VSTD005V5
Sample Info: 5G,VSTD005V5,VSTD005V5

Instrument: V5.i

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



Data File: \\avogadro\organics\V5.I\130620.B\V5O4272.D
Report Date: 23-Jun-2013 10:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620.B\V5O4272.D
Lab Smp Id: VSTD020V5 Client Smp ID: VSTD020V5
Inj Date : 20-JUN-2013 10:23
Operator : WL   SRC: WL Inst ID: V5.i
Smp Info : 5G,VSTD020V5,VSTD020V5
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620.B\v58260GH.m
Meth Date : 21-Jun-2013 09:32 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 10:23 Cal File: V5O4272.D
Als bottle: 4 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)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.594	1.592	(0.285)	102663	20.0000	19
2	Chloromethane	50	1.721	1.708	(0.307)	104376	20.0000	19
3	Vinyl Chloride	62	1.837	1.836	(0.328)	90309	20.0000	19
4	Bromomethane	94	2.139	2.127	(0.382)	63093	20.0000	19
5	Chloroethane	64	2.221	2.219	(0.397)	45204	20.0000	19
6	Trichlorofluoromethane	101	2.441	2.440	(0.436)	127172	20.0000	19
7	Ethanol	46	2.627	2.603	(0.469)	22585	2000.00	1900(AQ)
8	Ether	59	2.685	2.684	(0.480)	44354	20.0000	21
9	Acrolein	56	2.801	2.800	(0.500)	55686	100.000	110
10	1,1-Dichloroethene	96	2.894	2.893	(0.517)	60256	20.0000	20
11	1,1,2-Trichloro-1,2,2-trifluo	101	2.929	2.928	(0.523)	70224	20.0000	20
12	Acetone	58	2.941	2.928	(0.525)	21727	20.0000	23
13	Iodomethane	142	3.034	3.021	(0.542)	114968	20.0000	20
14	Carbon Disulfide	76	3.092	3.090	(0.552)	202719	20.0000	20
15	Acetonitrile	40	3.185	3.183	(0.569)	46747	200.000	210(AQ)
16	Methyl Acetate	43	3.231	3.218	(0.577)	48654	20.0000	22
17	Methylene Chloride	84	3.312	3.311	(0.592)	74361	20.0000	21
18	tert-Butanol	59	3.417	3.427	(0.610)	10221	40.0000	46
19	Acrylonitrile	53	3.521	3.532	(0.629)	17479	20.0000	24
20	trans-1,2-Dichloroethene	96	3.568	3.567	(0.637)	65164	20.0000	20
21	Methyl tert-butyl ether	73	3.568	3.567	(0.637)	137923	20.0000	22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 1,1-Dichloroethane	63	3.939	3.938	(0.703)	135340	20.0000	21
	23 Vinyl acetate	43	3.997	3.985	(0.714)	180202	20.0000	21
	24 Diisopropyl Ether	45	4.009	4.008	(0.716)	237261	20.0000	21
	25 Ethyl tert-butyl ether	59	4.346	4.345	(0.776)	172657	20.0000	21
	26 cis-1,2-Dichloroethene	96	4.474	4.472	(0.799)	68364	20.0000	20
	27 2-Butanone	72	4.485	4.472	(0.801)	19471	20.0000	23(Q)
	28 2,2-Dichloropropane	77	4.485	4.484	(0.801)	97560	20.0000	20
	29 Bromochloromethane	128	4.694	4.693	(0.838)	34185	20.0000	21
	30 Tetrahydrofuran	72	4.741	4.751	(0.847)	10367	40.0000	46
	31 Chloroform	83	4.764	4.763	(0.851)	124354	20.0000	21
$	32 Dibromofluoromethane	113	4.927	4.925	(0.880)	129372	50.0000	49
	33 1,1,1-Trichloroethane	97	4.961	4.960	(0.886)	101838	20.0000	20
	34 Cyclohexane	56	5.031	5.030	(0.898)	103488	20.0000	19
	35 1,1-Dichloropropene	110	5.112	5.111	(0.913)	29390	20.0000	20
	36 Carbon Tetrachloride	117	5.124	5.123	(0.915)	87283	20.0000	20
M	37 1,2-dichloroethene, (Total)	100				133528	40.0000	40
$	38 1,2-Dichloroethane-d4	102	5.252	5.250	(0.938)	21381	50.0000	49
	39 Benzene	78	5.321	5.320	(0.950)	232230	20.0000	20
	40 1,2-Dichloroethane	62	5.333	5.332	(0.952)	78380	20.0000	20
	41 tert-Amyl methyl ether	73	5.438	5.436	(0.971)	134626	20.0000	21
*	42 Fluorobenzene	96	5.600	5.599	(1.000)	381389	50.0000	
	43 Trichloroethene	130	5.983	5.982	(1.068)	62738	20.0000	20
	44 Methylcyclohexane	83	6.192	6.191	(1.106)	90088	20.0000	19
	45 1,2-Dichloropropane	63	6.204	6.214	(1.108)	65895	20.0000	20
	46 2-Chloroethyl vinyl ether	63	6.204	6.214	(1.108)	65895	20.0000	20(T)
	47 Dibromomethane	93	6.332	6.330	(1.131)	41406	20.0000	21
	48 1,4-Dioxane	88	6.355	6.354	(1.135)	7876	400.000	440
	49 Bromodichloromethane	83	6.506	6.505	(1.162)	80343	20.0000	20
	50 cis-1,3-Dichloropropene	75	7.005	7.004	(1.251)	88361	20.0000	20
	51 4-Methyl-2-pentanone	43	7.179	7.178	(1.282)	193905	20.0000	23
$	52 Toluene-d8	98	7.319	7.318	(0.807)	356894	50.0000	50
	53 Toluene	91	7.400	7.399	(1.321)	222780	20.0000	20
	54 trans-1,3-Dichloropropene	75	7.644	7.643	(1.365)	70327	20.0000	20
	55 1,1,2-Trichloroethane	97	7.865	7.863	(1.404)	45155	20.0000	21
	56 Tetrachloroethene	164	8.050	8.049	(0.887)	54103	20.0000	20
	57 1,3-Dichloropropane	76	8.074	8.061	(0.890)	78637	20.0000	22
	58 2-Hexanone	43	8.178	8.177	(0.901)	128572	20.0000	23
	59 Dibromochloromethane	129	8.341	8.340	(0.919)	53906	20.0000	21
	60 1,2-Dibromoethane	107	8.480	8.479	(0.935)	49269	20.0000	22
*	61 Chlorobenzene-d5	117	9.072	9.071	(1.000)	290258	50.0000	
	62 1-Chlorohexane	91	9.096	9.094	(1.003)	74506	20.0000	19(Q)
	63 Chlorobenzene	112	9.107	9.106	(1.004)	144622	20.0000	21
	64 1,1,1,2-Tetrachloroethane	131	9.223	9.222	(1.017)	56247	20.0000	22
	65 Ethylbenzene	106	9.258	9.257	(1.020)	74328	20.0000	20
	66 m,p-Xylene	106	9.421	9.420	(1.038)	182996	40.0000	41
	67 o-Xylene	106	9.943	9.931	(1.096)	92164	20.0000	21
	68 Styrene	104	9.955	9.954	(1.097)	144778	20.0000	21
	69 Bromoform	173	10.187	10.186	(1.123)	32454	20.0000	21
	70 Isopropylbenzene	105	10.443	10.441	(1.151)	241257	20.0000	21
	71 trans-1,4-Dichloro-2-butene	75	10.524	10.523	(1.160)	12829	20.0000	22
$	72 Bromofluorobenzene	95	10.629	10.627	(1.172)	144502	50.0000	50
	73 Bromobenzene	156	10.826	10.825	(0.884)	67422	20.0000	21
	74 1,1,2,2-Tetrachloroethane	83	10.838	10.836	(0.885)	63530	20.0000	22
	75 1,2,3-Trichloropropane	75	10.896	10.894	(0.890)	60898	20.0000	24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
76	n-Propylbenzene	120	11.000	10.999	(0.899)	62602	20.0000	20
77	2-Chlorotoluene	126	11.105	11.103	(0.907)	58068	20.0000	20
78	4-Chlorotoluene	126	11.256	11.254	(0.919)	58185	20.0000	20(Q)
79	1,3,5-Trimethylbenzene	105	11.256	11.254	(0.919)	196073	20.0000	21
80	tert-Butylbenzene	119	11.709	11.707	(0.956)	193171	20.0000	21
81	1,2,4-Trimethylbenzene	105	11.767	11.777	(0.961)	191982	20.0000	21
82	sec-Butylbenzene	105	12.010	12.009	(0.981)	266817	20.0000	20
83	1,3-Dichlorobenzene	146	12.150	12.149	(0.992)	118145	20.0000	20
84	4-Isopropyltoluene	119	12.231	12.230	(0.999)	206589	20.0000	20
* 85	1,4-Dichlorobenzene-d4	152	12.243	12.242	(1.000)	155619	50.0000	(Q)
86	1,2-Dichlorobenzene	146	12.278	12.276	(1.003)	122226	20.0000	21
M 87	Xylene (Total)	106				275160	60.0000	62
88	1,4-Dichlorobenzene	146	12.789	12.799	(1.045)	115812	20.0000	22
89	n-Butylbenzene	91	12.812	12.811	(1.046)	232572	20.0000	21
90	1,2-Dibromo-3-chloropropane	75	13.903	13.914	(1.136)	8493	20.0000	23
91	1,3,5-Trichlorobenzene	180	15.123	15.122	(2.700)	85589	20.0000	21
92	1,2,4-Trichlorobenzene	180	15.123	15.122	(1.235)	85589	20.0000	21
93	Hexachlorobutadiene	225	15.402	15.400	(1.258)	59371	20.0000	20
94	Naphthalene	128	15.471	15.470	(1.264)	94182	20.0000	19
95	1,2,3-Trichlorobenzene	180	15.820	15.818	(1.292)	75484	20.0000	21

QC Flag Legend

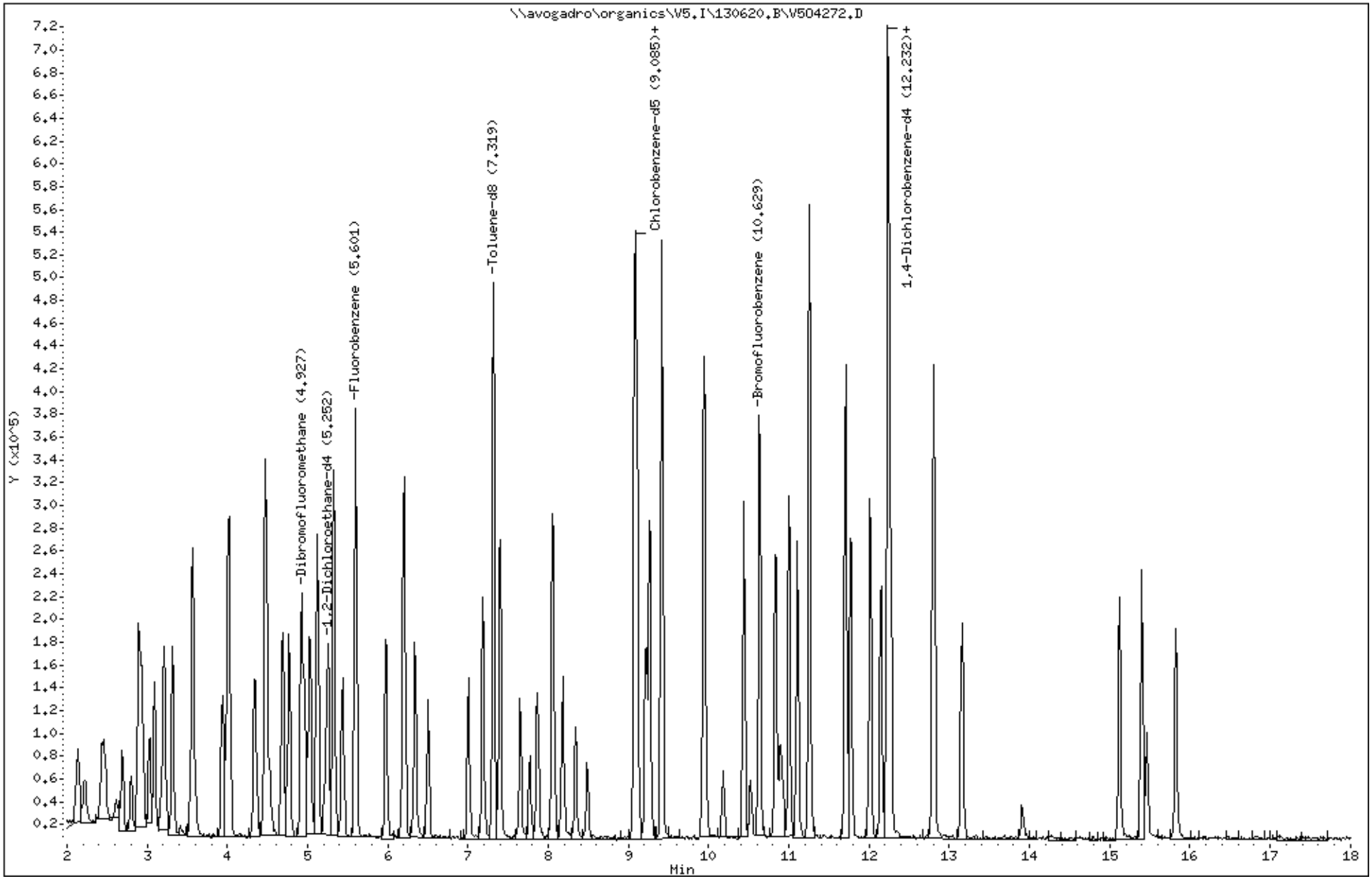
T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620.B\V504272.D
Date : 20-JUN-2013 10:23
Client ID: VSTD020V5
Sample Info: 5G,VSTD020V5,VSTD020V5

Instrument: V5.i

Operator: WL SRC: WL
Column diameter: 0.25

Column phase: DB-624



Data File: \\avogadro\organics\V5.I\130620.B\V5O4273.D
Report Date: 23-Jun-2013 10:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620.B\V5O4273.D
Lab Smp Id: VSTD050V5 Client Smp ID: VSTD050V5
Inj Date : 20-JUN-2013 10:49
Operator : WL   SRC: WL Inst ID: V5.i
Smp Info : 5G,VSTD050V5,VSTD050V5
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620.B\v58260GH.m
Meth Date : 21-Jun-2013 09:32 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 10:49 Cal File: V5O4273.D
Als bottle: 5 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	1.592	1.592	(0.284)	253525	50.0000	53
2	Chloromethane	50	1.708	1.708	(0.305)	245112	50.0000	50
3	Vinyl Chloride	62	1.836	1.836	(0.328)	215371	50.0000	50
4	Bromomethane	94	2.127	2.127	(0.380)	151998	50.0000	51
5	Chloroethane	64	2.219	2.219	(0.396)	108734	50.0000	50
6	Trichlorofluoromethane	101	2.440	2.440	(0.436)	310369	50.0000	52
7	Ethanol	46	2.603	2.603	(0.465)	67291	5000.00	6200(A)
8	Ether	59	2.684	2.684	(0.479)	106099	50.0000	55
9	Acrolein	56	2.800	2.800	(0.500)	133982	250.000	290(A)
10	1,1-Dichloroethene	96	2.893	2.893	(0.517)	148155	50.0000	53
11	1,1,2-Trichloro-1,2,2-trifluo	101	2.928	2.928	(0.523)	169913	50.0000	53
12	Acetone	58	2.928	2.928	(0.523)	45760	50.0000	54
13	Iodomethane	142	3.021	3.021	(0.540)	277769	50.0000	54
14	Carbon Disulfide	76	3.090	3.090	(0.552)	499739	50.0000	54
15	Acetonitrile	40	3.183	3.183	(0.569)	110895	500.000	560(AQ)
16	Methyl Acetate	43	3.218	3.218	(0.575)	118750	50.0000	59
17	Methylene Chloride	84	3.311	3.311	(0.591)	170065	50.0000	52
18	tert-Butanol	59	3.427	3.427	(0.612)	22277	100.000	110
19	Acrylonitrile	53	3.532	3.532	(0.631)	38165	50.0000	57
20	trans-1,2-Dichloroethene	96	3.567	3.567	(0.637)	160818	50.0000	53
21	Methyl tert-butyl ether	73	3.567	3.567	(0.637)	323150	50.0000	56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 1,1-Dichloroethane	63	3.938	3.938	(0.703)	313880	50.0000	54
	23 Vinyl acetate	43	3.985	3.985	(0.712)	417774	50.0000	54
	24 Diisopropyl Ether	45	4.008	4.008	(0.716)	542359	50.0000	53
	25 Ethyl tert-butyl ether	59	4.345	4.345	(0.776)	407578	50.0000	55
	26 cis-1,2-Dichloroethene	96	4.472	4.472	(0.799)	161262	50.0000	53
	27 2-Butanone	72	4.472	4.472	(0.799)	44994	50.0000	58(Q)
	28 2,2-Dichloropropane	77	4.484	4.484	(0.801)	235646	50.0000	52
	29 Bromochloromethane	128	4.693	4.693	(0.838)	80402	50.0000	56
	30 Tetrahydrofuran	72	4.751	4.751	(0.849)	23523	100.000	120
	31 Chloroform	83	4.763	4.763	(0.851)	290548	50.0000	54
$	32 Dibromofluoromethane	113	4.925	4.925	(0.880)	119613	50.0000	50
	33 1,1,1-Trichloroethane	97	4.960	4.960	(0.886)	246420	50.0000	54
	34 Cyclohexane	56	5.030	5.030	(0.898)	249329	50.0000	52
	35 1,1-Dichloropropene	110	5.111	5.111	(0.913)	70968	50.0000	52
	36 Carbon Tetrachloride	117	5.123	5.123	(0.915)	213078	50.0000	53
M	37 1,2-dichloroethene, (Total)	100				322080	100.000	110
$	38 1,2-Dichloroethane-d4	102	5.250	5.250	(0.938)	19731	50.0000	50
	39 Benzene	78	5.320	5.320	(0.950)	550749	50.0000	52
	40 1,2-Dichloroethane	62	5.332	5.332	(0.952)	191595	50.0000	55
	41 tert-Amyl methyl ether	73	5.436	5.436	(0.971)	320197	50.0000	55
*	42 Fluorobenzene	96	5.599	5.599	(1.000)	344572	50.0000	
	43 Trichloroethene	130	5.982	5.982	(1.068)	150597	50.0000	53
	44 Methylcyclohexane	83	6.191	6.191	(1.106)	220870	50.0000	52
	45 1,2-Dichloropropane	63	6.214	6.214	(1.110)	159106	50.0000	55
	46 2-Chloroethyl vinyl ether	63	6.214	6.214	(1.110)	159106	50.0000	55(T)
	47 Dibromomethane	93	6.330	6.330	(1.131)	94805	50.0000	54
	48 1,4-Dioxane	88	6.354	6.354	(1.135)	20920	1000.00	1300
	49 Bromodichloromethane	83	6.505	6.505	(1.162)	194744	50.0000	55
	50 cis-1,3-Dichloropropene	75	7.004	7.004	(1.251)	218706	50.0000	56
	51 4-Methyl-2-pentanone	43	7.178	7.178	(1.282)	451721	50.0000	59
$	52 Toluene-d8	98	7.318	7.318	(0.807)	326685	50.0000	49
	53 Toluene	91	7.399	7.399	(1.321)	516815	50.0000	53
	54 trans-1,3-Dichloropropene	75	7.643	7.643	(1.365)	186466	50.0000	59
	55 1,1,2-Trichloroethane	97	7.863	7.863	(1.404)	105350	50.0000	54
	56 Tetrachloroethene	164	8.049	8.049	(0.887)	133493	50.0000	54
	57 1,3-Dichloropropane	76	8.061	8.061	(0.889)	185098	50.0000	56
	58 2-Hexanone	43	8.177	8.177	(0.901)	312989	50.0000	61
	59 Dibromochloromethane	129	8.340	8.340	(0.919)	137798	50.0000	58
	60 1,2-Dibromoethane	107	8.479	8.479	(0.935)	118048	50.0000	56
*	61 Chlorobenzene-d5	117	9.071	9.071	(1.000)	268328	50.0000	
	62 1-Chlorohexane	91	9.094	9.094	(1.003)	185851	50.0000	52(Q)
	63 Chlorobenzene	112	9.106	9.106	(1.004)	334803	50.0000	52
	64 1,1,1,2-Tetrachloroethane	131	9.222	9.222	(1.017)	132262	50.0000	55
	65 Ethylbenzene	106	9.257	9.257	(1.020)	176172	50.0000	53
	66 m,p-Xylene	106	9.420	9.420	(1.038)	417783	100.000	100
	67 o-Xylene	106	9.931	9.931	(1.095)	214953	50.0000	53
	68 Styrene	104	9.954	9.954	(1.097)	348479	50.0000	55
	69 Bromoform	173	10.186	10.186	(1.123)	88186	50.0000	62
	70 Isopropylbenzene	105	10.441	10.441	(1.151)	580032	50.0000	54
	71 trans-1,4-Dichloro-2-butene	75	10.523	10.523	(1.160)	32626	50.0000	60
$	72 Bromofluorobenzene	95	10.627	10.627	(1.172)	136512	50.0000	51
	73 Bromobenzene	156	10.825	10.825	(0.884)	166838	50.0000	56
	74 1,1,2,2-Tetrachloroethane	83	10.836	10.836	(0.885)	150720	50.0000	57
	75 1,2,3-Trichloropropane	75	10.894	10.894	(0.890)	137946	50.0000	58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
76	n-Propylbenzene	120	10.999	10.999	(0.898)	150835	50.0000	54
77	2-Chlorotoluene	126	11.103	11.103	(0.907)	137008	50.0000	52
78	4-Chlorotoluene	126	11.254	11.254	(0.919)	141809	50.0000	54
79	1,3,5-Trimethylbenzene	105	11.254	11.254	(0.919)	465814	50.0000	53
80	tert-Butylbenzene	119	11.707	11.707	(0.956)	465595	50.0000	54
81	1,2,4-Trimethylbenzene	105	11.777	11.777	(0.962)	468336	50.0000	55
82	sec-Butylbenzene	105	12.009	12.009	(0.981)	654272	50.0000	54
83	1,3-Dichlorobenzene	146	12.149	12.149	(0.992)	298139	50.0000	56
84	4-Isopropyltoluene	119	12.230	12.230	(0.999)	495094	50.0000	53
* 85	1,4-Dichlorobenzene-d4	152	12.242	12.242	(1.000)	143703	50.0000	(Q)
86	1,2-Dichlorobenzene	146	12.276	12.276	(1.003)	293966	50.0000	54
M 87	Xylene (Total)	106				632736	150.000	160
88	1,4-Dichlorobenzene	146	12.799	12.799	(1.046)	269120	50.0000	55
89	n-Butylbenzene	91	12.811	12.811	(1.046)	558696	50.0000	54
90	1,2-Dibromo-3-chloropropane	75	13.914	13.914	(1.137)	21405	50.0000	63
91	1,3,5-Trichlorobenzene	180	15.122	15.122	(2.701)	206113	50.0000	56
92	1,2,4-Trichlorobenzene	180	15.122	15.122	(1.235)	206113	50.0000	56
93	Hexachlorobutadiene	225	15.400	15.400	(1.258)	155462	50.0000	57
94	Naphthalene	128	15.470	15.470	(1.264)	280049	50.0000	61
95	1,2,3-Trichlorobenzene	180	15.818	15.818	(1.292)	198443	50.0000	60

QC Flag Legend

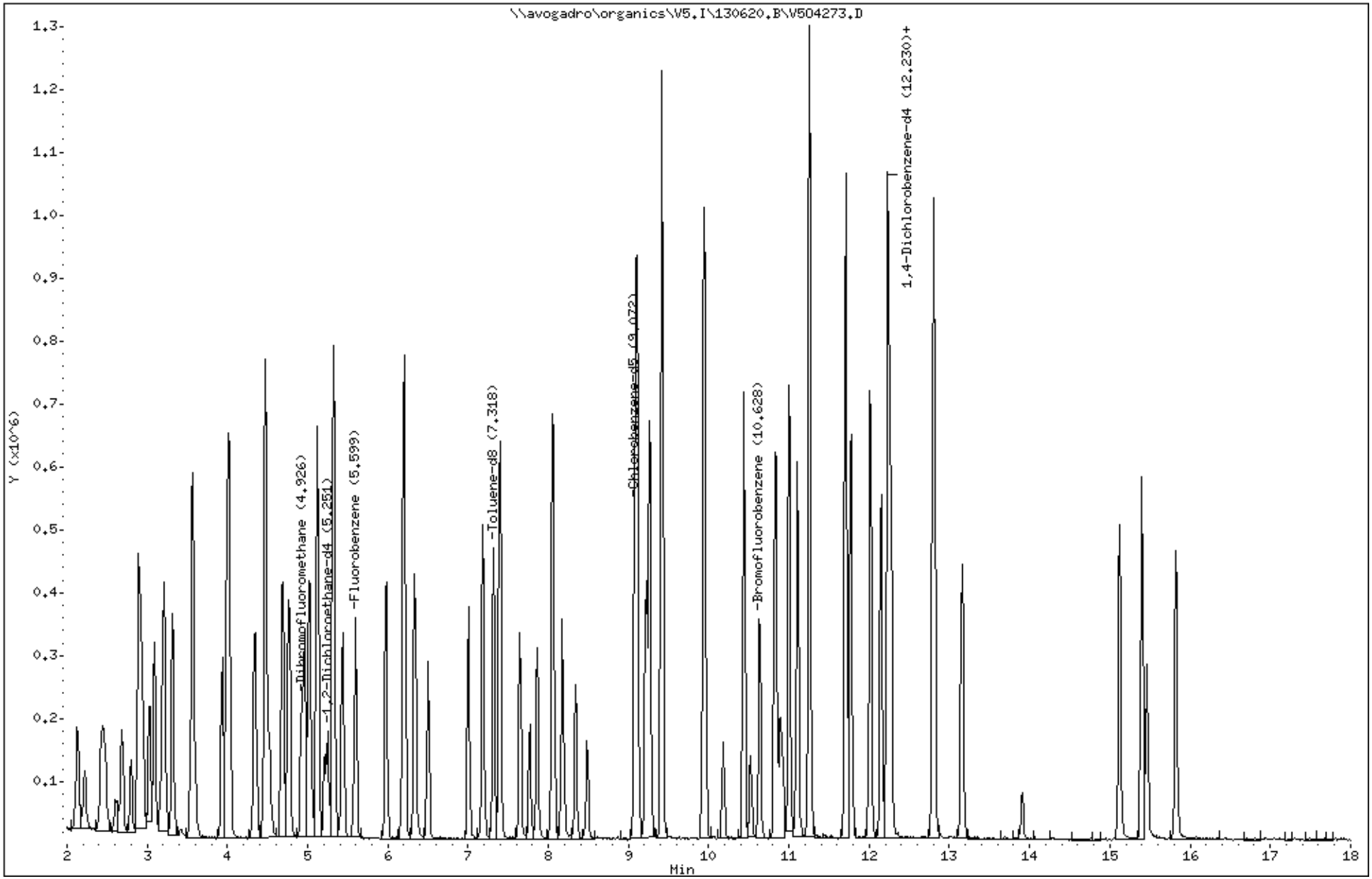
T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620.B\V504273.D
Date : 20-JUN-2013 10:49
Client ID: VSTD050V5
Sample Info: 5G,VSTD050V5,VSTD050V5

Instrument: V5.i

Operator: WL SRC: WL
Column diameter: 0.25

Column phase: DB-624



Data File: \\avogadro\organics\V5.I\130620.B\V5O4274.D
Report Date: 23-Jun-2013 10:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620.B\V5O4274.D
Lab Smp Id: VSTD100V5 Client Smp ID: VSTD100V5
Inj Date : 20-JUN-2013 14:20
Operator : WL   SRC: WL Inst ID: V5.i
Smp Info : 5G,VSTD100V5,VSTD100V5
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620.B\v58260GH.m
Meth Date : 21-Jun-2013 09:32 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:20 Cal File: V5O4274.D
Als bottle: 8 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	1.591	1.592	(0.284)	521028	100.000	100
2	Chloromethane	50	1.707	1.708	(0.305)	525615	100.000	100
3	Vinyl Chloride	62	1.823	1.836	(0.326)	478346	100.000	100
4	Bromomethane	94	2.125	2.127	(0.380)	319473	100.000	100
5	Chloroethane	64	2.206	2.219	(0.394)	237440	100.000	100
6	Trichlorofluoromethane	101	2.439	2.440	(0.436)	625460	100.000	97
7	Ethanol	46	2.601	2.603	(0.465)	88257	10000.0	7600(A)
8	Ether	59	2.682	2.684	(0.479)	172249	100.000	84
9	Acrolein	56	2.787	2.800	(0.498)	179502	500.000	360(A)
10	1,1-Dichloroethene	96	2.892	2.893	(0.517)	279900	100.000	94
11	1,1,2-Trichloro-1,2,2-trifluo	101	2.915	2.928	(0.521)	324371	100.000	94
12	Acetone	58	2.926	2.928	(0.523)	63174	100.000	70
13	Iodomethane	142	3.019	3.021	(0.539)	517904	100.000	93
14	Carbon Disulfide	76	3.089	3.090	(0.552)	940478	100.000	96
15	Acetonitrile	40	3.182	3.183	(0.568)	184534	1000.00	870(AQ)
16	Methyl Acetate	43	3.217	3.218	(0.575)	166657	100.000	78
17	Methylene Chloride	84	3.310	3.311	(0.591)	295631	100.000	85
18	tert-Butanol	59	3.414	3.427	(0.610)	31504	200.000	150
19	Acrylonitrile	53	3.519	3.532	(0.629)	55113	100.000	77
20	trans-1,2-Dichloroethene	96	3.553	3.567	(0.635)	301402	100.000	94
21	Methyl tert-butyl ether	73	3.565	3.567	(0.637)	516978	100.000	84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 1,1-Dichloroethane	63	3.925	3.938	(0.701)	570022	100.000	91
	23 Vinyl acetate	43	3.995	3.985	(0.714)	731705	100.000	88
	24 Diisopropyl Ether	45	4.006	4.008	(0.716)	1003146	100.000	92
	25 Ethyl tert-butyl ether	59	4.332	4.345	(0.774)	705104	100.000	88
	26 cis-1,2-Dichloroethene	96	4.459	4.472	(0.797)	299103	100.000	92
	27 2-Butanone	72	4.471	4.472	(0.799)	60956	100.000	74
	28 2,2-Dichloropropane	77	4.471	4.484	(0.799)	443383	100.000	92
	29 Bromochloromethane	128	4.692	4.693	(0.838)	133330	100.000	86
	30 Tetrahydrofuran	72	4.750	4.751	(0.849)	34996	200.000	160
	31 Chloroform	83	4.761	4.763	(0.851)	518941	100.000	89
$	32 Dibromofluoromethane	113	4.912	4.925	(0.878)	124947	50.0000	49
	33 1,1,1-Trichloroethane	97	4.959	4.960	(0.886)	458185	100.000	94
	34 Cyclohexane	56	5.017	5.030	(0.896)	506875	100.000	99
	35 1,1-Dichloropropene	110	5.110	5.111	(0.913)	140160	100.000	97
	36 Carbon Tetrachloride	117	5.121	5.123	(0.915)	401558	100.000	94
M	37 1,2-dichloroethene, (Total)	100				600505	200.000	180
$	38 1,2-Dichloroethane-d4	102	5.249	5.250	(0.938)	20858	50.0000	49
	39 Benzene	78	5.319	5.320	(0.950)	1065192	100.000	95
	40 1,2-Dichloroethane	62	5.319	5.332	(0.950)	325611	100.000	87
	41 tert-Amyl methyl ether	73	5.435	5.436	(0.971)	530653	100.000	85
*	42 Fluorobenzene	96	5.597	5.599	(1.000)	368468	50.0000	
	43 Trichloroethene	130	5.981	5.982	(1.068)	263606	100.000	87
	44 Methylcyclohexane	83	6.190	6.191	(1.106)	435354	100.000	96
	45 1,2-Dichloropropane	63	6.201	6.214	(1.108)	274667	100.000	88
	46 2-Chloroethyl vinyl ether	63	6.201	6.214	(1.108)	274667	100.000	88(T)
	47 Dibromomethane	93	6.329	6.330	(1.131)	156269	100.000	84
	48 1,4-Dioxane	88	6.364	6.354	(1.137)	24264	2000.00	1400
	49 Bromodichloromethane	83	6.503	6.505	(1.162)	341988	100.000	90
	50 cis-1,3-Dichloropropene	75	7.003	7.004	(1.251)	375510	100.000	90
	51 4-Methyl-2-pentanone	43	7.177	7.178	(1.282)	627264	100.000	77
$	52 Toluene-d8	98	7.316	7.318	(0.807)	352061	50.0000	51
	53 Toluene	91	7.397	7.399	(1.322)	988011	100.000	94
	54 trans-1,3-Dichloropropene	75	7.641	7.643	(1.365)	298060	100.000	88
	55 1,1,2-Trichloroethane	97	7.862	7.863	(1.405)	169897	100.000	82
	56 Tetrachloroethene	164	8.048	8.049	(0.887)	249677	100.000	97
	57 1,3-Dichloropropane	76	8.059	8.061	(0.889)	296167	100.000	85
	58 2-Hexanone	43	8.175	8.177	(0.901)	424603	100.000	79
	59 Dibromochloromethane	129	8.338	8.340	(0.919)	212289	100.000	86
	60 1,2-Dibromoethane	107	8.477	8.479	(0.935)	176513	100.000	80
*	61 Chlorobenzene-d5	117	9.070	9.071	(1.000)	279871	50.0000	
	62 1-Chlorohexane	91	9.093	9.094	(1.003)	362968	100.000	98
	63 Chlorobenzene	112	9.105	9.106	(1.004)	618083	100.000	93
	64 1,1,1,2-Tetrachloroethane	131	9.221	9.222	(1.017)	234964	100.000	93
	65 Ethylbenzene	106	9.255	9.257	(1.020)	336694	100.000	96
	66 m,p-Xylene	106	9.418	9.420	(1.038)	814837	200.000	190
	67 o-Xylene	106	9.929	9.931	(1.095)	392356	100.000	93
	68 Styrene	104	9.952	9.954	(1.097)	623475	100.000	94
	69 Bromoform	173	10.185	10.186	(1.123)	124803	100.000	84
	70 Isopropylbenzene	105	10.440	10.441	(1.151)	1102952	100.000	98
	71 trans-1,4-Dichloro-2-butene	75	10.521	10.523	(1.160)	44998	100.000	79
$	72 Bromofluorobenzene	95	10.626	10.627	(1.172)	137949	50.0000	49
	73 Bromobenzene	156	10.823	10.825	(0.884)	276982	100.000	91
	74 1,1,2,2-Tetrachloroethane	83	10.835	10.836	(0.885)	218872	100.000	82
	75 1,2,3-Trichloropropane	75	10.893	10.894	(0.890)	190349	100.000	79

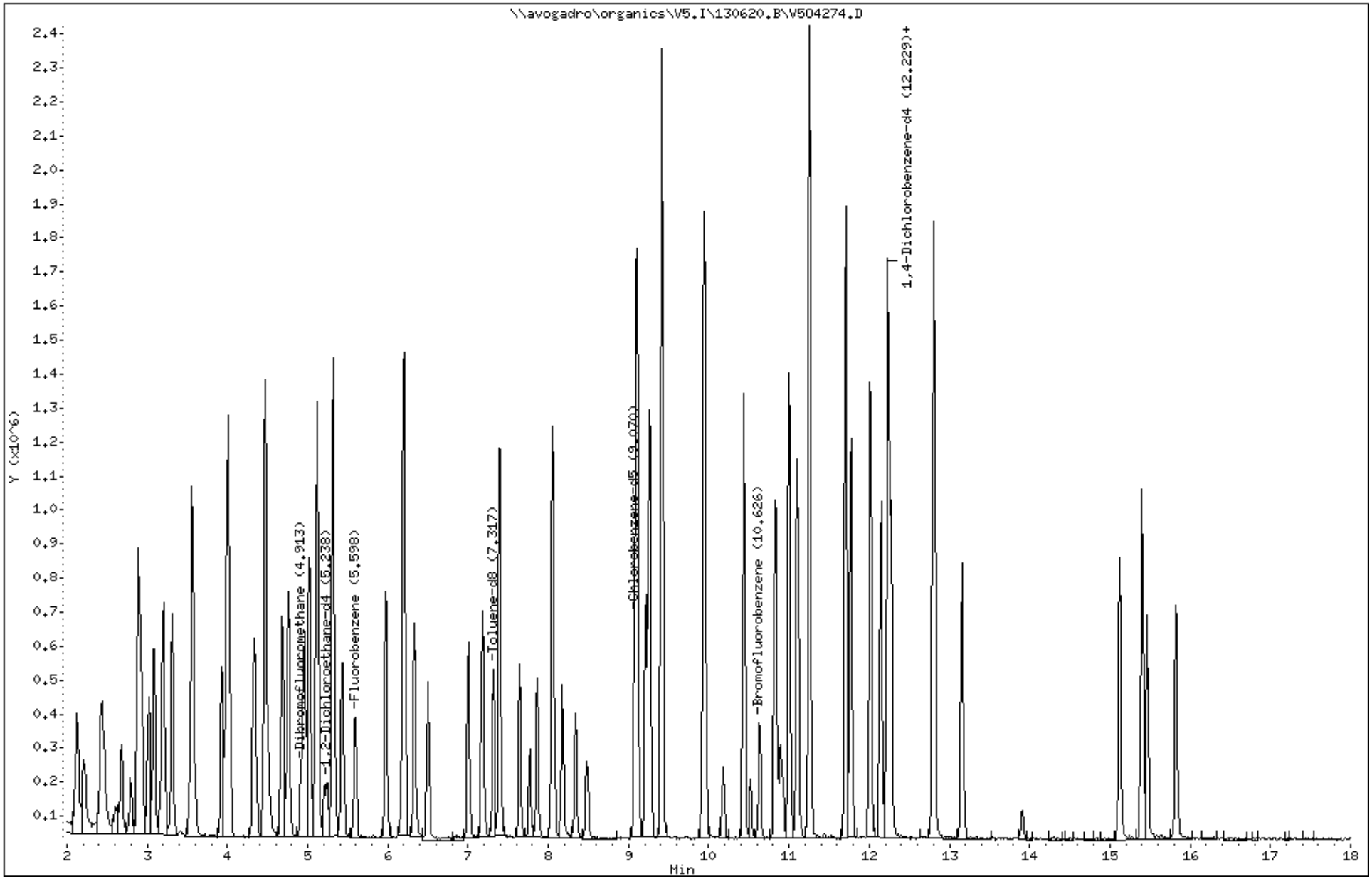
Data File: \\avogadro\organics\V5.I\130620.B\V5O4274.D
Report Date: 23-Jun-2013 10:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	76 n-Propylbenzene	120	10.997	10.999	(0.898)	281145	100.000	99	
	77 2-Chlorotoluene	126	11.102	11.103	(0.907)	260207	100.000	98	
	78 4-Chlorotoluene	126	11.253	11.254	(0.919)	259455	100.000	97	
	79 1,3,5-Trimethylbenzene	105	11.253	11.254	(0.919)	863568	100.000	97	
	80 tert-Butylbenzene	119	11.706	11.707	(0.956)	854603	100.000	98	
	81 1,2,4-Trimethylbenzene	105	11.776	11.777	(0.962)	837671	100.000	96	
	82 sec-Butylbenzene	105	12.008	12.009	(0.981)	1249362	100.000	100	
	83 1,3-Dichlorobenzene	146	12.147	12.149	(0.992)	513733	100.000	95	
	84 4-Isopropyltoluene	119	12.228	12.230	(0.999)	912079	100.000	96	
*	85 1,4-Dichlorobenzene-d4	152	12.240	12.242	(1.000)	145692	50.0000		(Q)
	86 1,2-Dichlorobenzene	146	12.275	12.276	(1.003)	505193	100.000	92	
M	87 Xylene (Total)	106				1207193	300.000	280	
	88 1,4-Dichlorobenzene	146	12.797	12.799	(1.046)	444616	100.000	90	
	89 n-Butylbenzene	91	12.809	12.811	(1.046)	987160	100.000	94	
	90 1,2-Dibromo-3-chloropropane	75	13.912	13.914	(1.137)	24903	100.000	73	
	91 1,3,5-Trichlorobenzene	180	15.120	15.122	(2.701)	337458	100.000	86	
	92 1,2,4-Trichlorobenzene	180	15.120	15.122	(1.235)	337458	100.000	90	
	93 Hexachlorobutadiene	225	15.399	15.400	(1.258)	267265	100.000	96	
	94 Naphthalene	128	15.468	15.470	(1.264)	651205	100.000	140	
	95 1,2,3-Trichlorobenzene	180	15.828	15.818	(1.293)	302509	100.000	90	

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620.B\V504274.D
Date : 20-JUN-2013 14:20
Client ID: VSTD100V5
Instrument: V5.i
Sample Info: 5G,VSTD100V5,VSTD100V5
Operator: WL SRC: WL
Column phase: DB-624
Column diameter: 0.25



Data File: \\avogadro\organics\V5.I\130620.B\V5O4275.D
Report Date: 23-Jun-2013 10:40

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620.B\V5O4275.D
Lab Smp Id: VSTD200V5 Client Smp ID: VSTD200V5
Inj Date : 20-JUN-2013 14:45
Operator : WL   SRC: WL Inst ID: V5.i
Smp Info : 5G,VSTD200V5,VSTD200V5
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620.B\v58260GH.m
Meth Date : 21-Jun-2013 09:32 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 9 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)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.584	1.592	(0.283)	942067	200.000	180
2	Chloromethane	50	1.712	1.708	(0.306)	1039753	200.000	200
3	Vinyl Chloride	62	1.828	1.836	(0.327)	910918	200.000	200
4	Bromomethane	94	2.130	2.127	(0.381)	599080	200.000	190
5	Chloroethane	64	2.211	2.219	(0.396)	439153	200.000	190
6	Trichlorofluoromethane	101	2.432	2.440	(0.435)	1219085	200.000	190
7	Ethanol	46	2.606	2.603	(0.466)	189259	20000.0	16000(A)
8	Ether	59	2.688	2.684	(0.481)	351883	200.000	170
9	Acrolein	56	2.792	2.800	(0.499)	390862	1000.00	780(A)
10	1,1-Dichloroethene	96	2.885	2.893	(0.516)	545584	200.000	180
11	1,1,2-Trichloro-1,2,2-trifluo	101	2.920	2.928	(0.522)	614575	200.000	180
12	Acetone	58	2.931	2.928	(0.524)	122502	200.000	140
13	Iodomethane	142	3.024	3.021	(0.541)	1027901	200.000	180
14	Carbon Disulfide	76	3.082	3.090	(0.551)	1842108	200.000	190
15	Acetonitrile	40	3.175	3.183	(0.568)	329265	2000.00	1500(A)
16	Methyl Acetate	43	3.222	3.218	(0.576)	342113	200.000	160
17	Methylene Chloride	84	3.315	3.311	(0.593)	576642	200.000	160
18	tert-Butanol	59	3.431	3.427	(0.614)	60878	400.000	280(A)
19	Acrylonitrile	53	3.524	3.532	(0.630)	119786	200.000	170
20	trans-1,2-Dichloroethene	96	3.559	3.567	(0.637)	600384	200.000	190
21	Methyl tert-butyl ether	73	3.570	3.567	(0.639)	1046586	200.000	170

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22	1,1-Dichloroethane	63	3.930	3.938	(0.703)	1139477	200.000	180
	23	Vinyl acetate	43	3.988	3.985	(0.713)	1431611	200.000	170
	24	Diisopropyl Ether	45	4.000	4.008	(0.715)	1925790	200.000	180
	25	Ethyl tert-butyl ether	59	4.337	4.345	(0.776)	1417465	200.000	180
	26	cis-1,2-Dichloroethene	96	4.464	4.472	(0.799)	582811	200.000	180
	27	2-Butanone	72	4.476	4.472	(0.801)	117894	200.000	140
	28	2,2-Dichloropropane	77	4.476	4.484	(0.801)	873846	200.000	180
	29	Bromochloromethane	128	4.697	4.693	(0.840)	277666	200.000	180
	30	Tetrahydrofuran	72	4.743	4.751	(0.848)	70646	400.000	320(A)
	31	Chloroform	83	4.766	4.763	(0.853)	1050409	200.000	180
$	32	Dibromofluoromethane	113	4.917	4.925	(0.880)	126140	50.0000	50
	33	1,1,1-Trichloroethane	97	4.964	4.960	(0.888)	909385	200.000	180
	34	Cyclohexane	56	5.022	5.030	(0.898)	1001053	200.000	190
	35	1,1-Dichloropropene	110	5.115	5.111	(0.915)	275174	200.000	190
	36	Carbon Tetrachloride	117	5.126	5.123	(0.917)	816123	200.000	190
M	37	1,2-dichloroethene, (Total)	100				1183195	400.000	360(A)
$	38	1,2-Dichloroethane-d4	102	5.254	5.250	(0.940)	21676	50.0000	51
	39	Benzene	78	5.324	5.320	(0.952)	2000205	200.000	180
	40	1,2-Dichloroethane	62	5.324	5.332	(0.952)	623060	200.000	170
	41	tert-Amyl methyl ether	73	5.428	5.436	(0.971)	1094988	200.000	170
*	42	Fluorobenzene	96	5.591	5.599	(1.000)	368809	50.0000	
	43	Trichloroethene	130	5.974	5.982	(1.069)	564931	200.000	190
	44	Methylcyclohexane	83	6.195	6.191	(1.108)	865583	200.000	190
	45	1,2-Dichloropropane	63	6.206	6.214	(1.110)	552680	200.000	180
	46	2-Chloroethyl vinyl ether	63	6.206	6.214	(1.110)	552680	200.000	180
	47	Dibromomethane	93	6.334	6.330	(1.133)	311030	200.000	170
	48	1,4-Dioxane	88	6.357	6.354	(1.137)	56908	4000.00	3300(A)
	49	Bromodichloromethane	83	6.497	6.505	(1.162)	691283	200.000	180
	50	cis-1,3-Dichloropropene	75	7.008	7.004	(1.253)	772322	200.000	180
	51	4-Methyl-2-pentanone	43	7.182	7.178	(1.285)	1310525	200.000	160
$	52	Toluene-d8	98	7.321	7.318	(0.807)	363577	50.0000	50
	53	Toluene	91	7.391	7.399	(1.322)	1898319	200.000	180
	54	trans-1,3-Dichloropropene	75	7.646	7.643	(1.368)	628350	200.000	190
	55	1,1,2-Trichloroethane	97	7.867	7.863	(1.407)	339707	200.000	160
	56	Tetrachloroethene	164	8.053	8.049	(0.887)	487336	200.000	180
	57	1,3-Dichloropropane	76	8.064	8.061	(0.889)	603538	200.000	170
	58	2-Hexanone	43	8.181	8.177	(0.901)	916846	200.000	160
	59	Dibromochloromethane	129	8.343	8.340	(0.919)	455008	200.000	180
	60	1,2-Dibromoethane	107	8.483	8.479	(0.935)	383699	200.000	170
*	61	Chlorobenzene-d5	117	9.075	9.071	(1.000)	291463	50.0000	
	62	1-Chlorohexane	91	9.098	9.094	(1.003)	723731	200.000	190
	63	Chlorobenzene	112	9.110	9.106	(1.004)	1209365	200.000	170
	64	1,1,1,2-Tetrachloroethane	131	9.214	9.222	(1.015)	475869	200.000	180
	65	Ethylbenzene	106	9.261	9.257	(1.020)	684428	200.000	190
	66	m,p-Xylene	106	9.423	9.420	(1.038)	1617583	400.000	360(A)
	67	o-Xylene	106	9.934	9.931	(1.095)	803220	200.000	180
	68	Styrene	104	9.957	9.954	(1.097)	1269036	200.000	180
	69	Bromoform	173	10.178	10.186	(1.122)	277321	200.000	180
	70	Isopropylbenzene	105	10.445	10.441	(1.151)	2195394	200.000	190
	71	trans-1,4-Dichloro-2-butene	75	10.526	10.523	(1.160)	106545	200.000	180
$	72	Bromofluorobenzene	95	10.631	10.627	(1.171)	149982	50.0000	51
	73	Bromobenzene	156	10.828	10.825	(0.884)	564099	200.000	170
	74	1,1,2,2-Tetrachloroethane	83	10.840	10.836	(0.885)	456914	200.000	150
	75	1,2,3-Trichloropropane	75	10.886	10.894	(0.889)	419316	200.000	160

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	76	n-Propylbenzene	120	11.003	10.999	(0.899)	567372	200.000	180
	77	2-Chlorotoluene	126	11.107	11.103	(0.907)	523978	200.000	180
	78	4-Chlorotoluene	126	11.258	11.254	(0.919)	539901	200.000	180
	79	1,3,5-Trimethylbenzene	105	11.258	11.254	(0.919)	1745940	200.000	180
	80	tert-Butylbenzene	119	11.711	11.707	(0.956)	1741927	200.000	180
	81	1,2,4-Trimethylbenzene	105	11.769	11.777	(0.961)	1708759	200.000	180
	82	sec-Butylbenzene	105	12.013	12.009	(0.981)	2483563	200.000	180
	83	1,3-Dichlorobenzene	146	12.141	12.149	(0.991)	1050484	200.000	180
	84	4-Isopropyltoluene	119	12.234	12.230	(0.999)	1886308	200.000	180
*	85	1,4-Dichlorobenzene-d4	152	12.245	12.242	(1.000)	161055	50.0000	
	86	1,2-Dichlorobenzene	146	12.268	12.276	(1.002)	1061168	200.000	180
M	87	Xylene (Total)	106				2420803	600.000	550
	88	1,4-Dichlorobenzene	146	12.791	12.799	(1.045)	904557	200.000	160
	89	n-Butylbenzene	91	12.814	12.811	(1.046)	2003716	200.000	170
	90	1,2-Dibromo-3-chloropropane	75	13.906	13.914	(1.136)	56690	200.000	150
	91	1,3,5-Trichlorobenzene	180	15.125	15.122	(2.705)	718721	200.000	180
	92	1,2,4-Trichlorobenzene	180	15.125	15.122	(1.235)	718721	200.000	170
	93	Hexachlorobutadiene	225	15.404	15.400	(1.258)	564207	200.000	180
	94	Naphthalene	128	15.462	15.470	(1.263)	773074	200.000	150
	95	1,2,3-Trichlorobenzene	180	15.822	15.818	(1.292)	605486	200.000	160

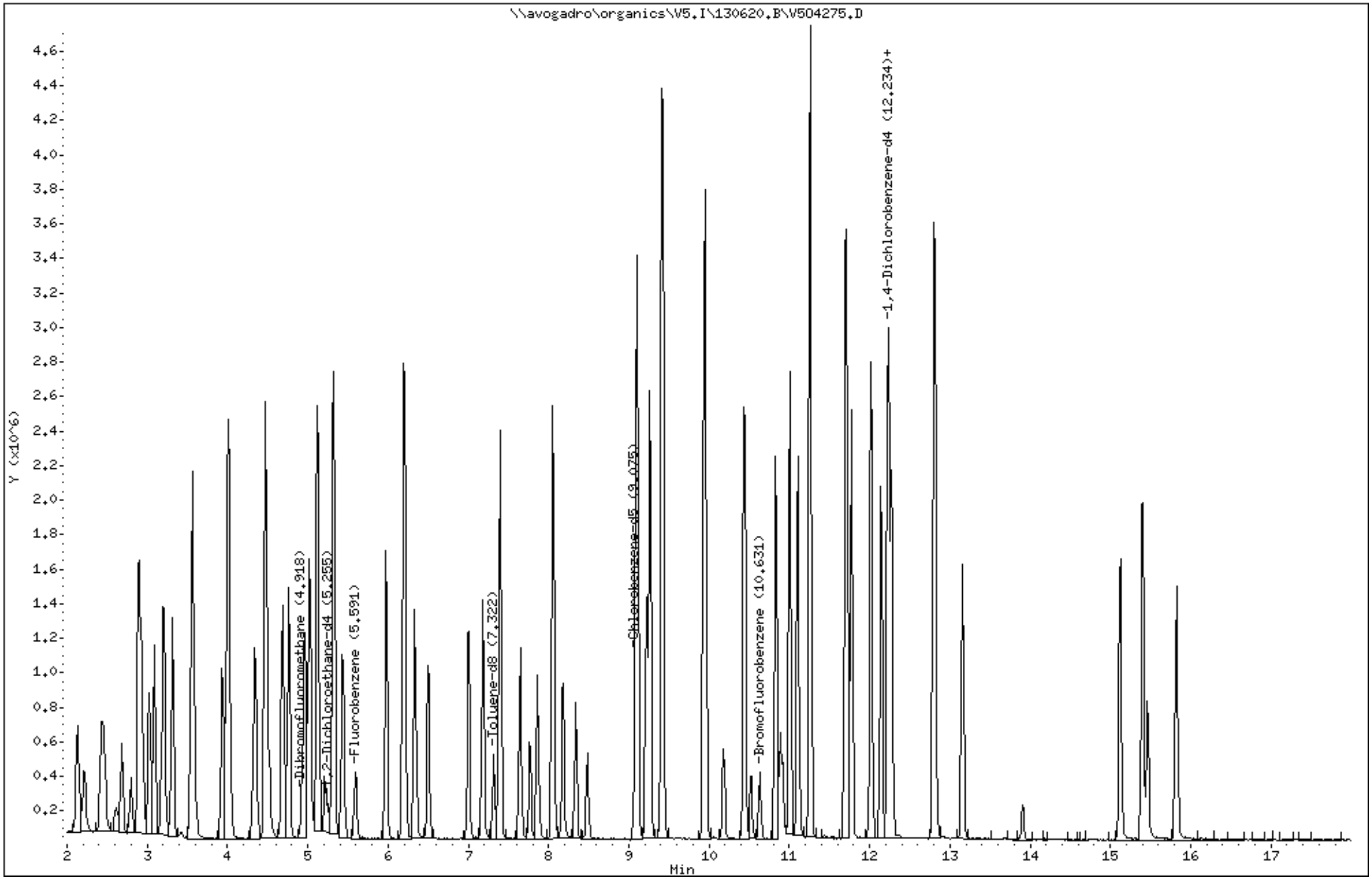
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\avogadro\organics\V5.I\130620.B\V504275.D
Date : 20-JUN-2013 14:45
Client ID: VSTD200V5
Sample Info: 5G,VSTD200V5,VSTD200V5

Instrument: V5.i

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



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

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: V5 Calibration Date: 06/20/2013 Time: 16:29

Lab File ID: V5O4279.D Init. Calib. Date(s): 06/20/2013 06/20/2013

EPA Sample No.(VSTD#####) VSTD050W5 Init. Calib. Time(s): 9:57 14:45

Heated Purge: (Y/N) Y 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	0.692	0.692	0.100	0.0	20.0
Chloromethane	0.716	0.762	0.100	6.4	20.0
Vinyl chloride	0.621	0.670	0.100	7.9	20.0
Bromomethane	0.434	0.457	0.100	5.4	20.0
Chloroethane	0.315	0.331	0.100	5.3	20.0
Trichlorofluoromethane	0.874	0.900	0.100	3.0	20.0
1,1-Dichloroethene	0.403	0.400	0.100	-0.7	20.0
Acetone	0.123	0.103	0.100	-16.3	20.0
Iodomethane	0.752	0.767	0.100	2.0	20.0
Carbon disulfide	1.335	1.399	0.100	4.8	20.0
Methylene chloride	0.472	0.465	0.100	-1.3	20.0
trans-1,2-Dichloroethene	0.436	0.444	0.100	1.9	20.0
Methyl tert-butyl ether	0.831	0.907	0.100	9.1	20.0
1,1-Dichloroethane	0.847	0.889	0.200	4.9	20.0
Vinyl acetate	1.124	1.263	0.100	12.3	20.0
2-Butanone	0.112	0.105	0.100	-6.0	20.0
cis-1,2-Dichloroethene	0.440	0.460	0.100	4.4	20.0
2,2-Dichloropropane	0.653	0.653	0.100	0.0	20.0
Bromochloromethane	0.210	0.219	0.100	4.3	20.0
Chloroform	0.787	0.819	0.200	4.0	20.0
1,1,1-Trichloroethane	0.664	0.685	0.100	3.3	20.0
1,1-Dichloropropene	0.196	0.208	0.100	6.0	20.0
Carbon tetrachloride	0.580	0.603	0.100	3.9	20.0
1,2-Dichloroethane	0.506	0.531	0.100	4.8	20.0
Benzene	1.521	1.577	0.500	3.7	20.0
Trichloroethene	0.409	0.428	0.200	4.6	20.0
1,2-Dichloropropane	0.422	0.447	0.100	5.8	20.0
Dibromomethane	0.253	0.263	0.100	4.1	20.0
Bromodichloromethane	0.512	0.557	0.200	8.6	20.0
cis-1,3-Dichloropropene	0.568	0.610	0.200	7.4	20.0
4-Methyl-2-pentanone	1.106	1.249	0.100	13.0	20.0
Toluene	1.425	1.504	0.400	5.6	20.0
trans-1,3-Dichloropropene	0.457	0.511	0.100	11.9	20.0
1,1,2-Trichloroethane	0.282	0.275	0.100	-2.6	20.0
1,3-Dichloropropane	0.620	0.654	0.100	5.3	20.0
Tetrachloroethene	0.459	0.482	0.200	5.2	20.0
2-Hexanone	0.962	1.110	0.100	15.4	20.0
Dibromochloromethane	0.439	0.492	0.100	12.1	20.0
1,2-Dibromoethane	0.393	0.403	0.100	2.6	20.0
Chlorobenzene	1.192	1.223	0.500	2.6	20.0

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

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: V5 Calibration Date: 06/20/2013 Time: 16:29

Lab File ID: V5O4279.D Init. Calib. Date(s): 06/20/2013 06/20/2013

EPA Sample No.(VSTD#####) VSTD050W5 Init. Calib. Time(s): 9:57 14:45

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

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.450	0.488	0.100	8.5	20.0
Ethylbenzene	0.624	0.651	0.100	4.3	20.0
m,p-Xylene	0.763	0.806	0.100	5.7	20.0
o-Xylene	0.755	0.774	0.300	2.5	20.0
Xylene (Total)	0.760	0.795	0.000	4.6	20.0
Styrene	1.189	1.312	0.300	10.4	20.0
Bromoform	0.266	0.291	0.100	9.4	20.0
Isopropylbenzene	2.014	2.184	0.100	8.5	20.0
1,1,2,2-Tetrachloroethane	0.921	0.996	0.300	8.1	20.0
Bromobenzene	1.043	1.098	0.100	5.2	20.0
1,2,3-Trichloropropane	0.828	0.902	0.100	8.9	20.0
n-Propylbenzene	0.978	1.048	0.100	7.1	20.0
2-Chlorotoluene	0.907	0.984	0.100	8.5	20.0
1,3,5-Trimethylbenzene	3.040	3.330	0.100	9.5	20.0
4-Chlorotoluene	0.921	1.004	0.100	9.0	20.0
tert-Butylbenzene	2.993	3.264	0.100	9.0	20.0
1,2,4-Trimethylbenzene	2.977	3.311	0.100	11.2	20.0
sec-Butylbenzene	4.254	4.683	0.100	10.1	20.0
4-Isopropyltoluene	3.240	3.463	0.100	6.9	20.0
1,3-Dichlorobenzene	1.858	1.997	0.600	7.5	20.0
1,4-Dichlorobenzene	1.699	1.783	0.500	5.0	20.0
n-Butylbenzene	3.586	3.870	0.100	7.9	20.0
1,2-Dichlorobenzene	1.874	2.047	0.400	9.2	20.0
1,2-Dibromo-3-chloropropane	0.117	0.130	0.050	10.5	20.0
1,2,4-Trichlorobenzene	1.280	1.406	0.200	9.8	20.0
Hexachlorobutadiene	0.952	1.022	0.100	7.3	20.0
1,2,3-Trichlorobenzene	1.154	1.239	0.100	7.3	20.0
Naphthalene	1.589	2.259	0.100	42.2	20.0

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

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: V5 Calibration Date: 06/20/2013 Time: 16:29

Lab File ID: V5O4279.D Init. Calib. Date(s): 06/20/2013 06/20/2013

EPA Sample No.(VSTD#####) VSTD050W5 Init. Calib. Time(s): 9:57 14:45

Heated Purge: (Y/N) Y 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	0.344	0.334	0.100	-2.8	20.0
1,2-Dichloroethane-d4	0.058	0.051	0.100	-10.8	20.0
Toluene-d8	1.238	1.246	0.100	0.6	20.0
Bromofluorobenzene	0.503	0.493	0.100	-1.9	20.0

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4279.D
Report Date: 23-Jun-2013 10:42

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4279.D
Lab Smp Id: VSTD050W5 Client Smp ID: VSTD050W5
Inj Date : 20-JUN-2013 16:29
Operator : WL   SRC: WL Inst ID: V5.i
Smp Info : 5G,VSTD050W5,VSTD050W5
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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	1.598	1.598	(0.286)	275338	50.0000	50
2	Chloromethane	50	1.714	1.714	(0.306)	303465	50.0000	53
3	Vinyl Chloride	62	1.830	1.830	(0.327)	266873	50.0000	54
4	Bromomethane	94	2.132	2.132	(0.381)	182031	50.0000	53
5	Chloroethane	64	2.225	2.225	(0.398)	131953	50.0000	53
6	Trichlorofluoromethane	101	2.445	2.445	(0.437)	358383	50.0000	52
7	Ethanol	46	2.620	2.620	(0.468)	66609	5000.00	5300(A)
8	Ether	59	2.689	2.689	(0.481)	115984	50.0000	52
9	Acrolein	56	2.805	2.805	(0.502)	142092	250.000	260(A)
10	1,1-Dichloroethene	96	2.898	2.898	(0.518)	159213	50.0000	50
11	1,1,2-Trichloro-1,2,2-trifluo	101	2.922	2.922	(0.522)	182285	50.0000	49
12	Acetone	58	2.933	2.933	(0.525)	40957	50.0000	42
13	Iodomethane	142	3.026	3.026	(0.541)	305531	50.0000	51
14	Carbon Disulfide	76	3.084	3.084	(0.551)	556860	50.0000	52
15	Acetonitrile	40	3.177	3.177	(0.568)	118795	500.000	520(AQ)
16	Methyl Acetate	43	3.223	3.223	(0.576)	124538	50.0000	54
17	Methylene Chloride	84	3.316	3.316	(0.593)	185230	50.0000	49
18	tert-Butanol	59	3.421	3.421	(0.612)	24008	100.000	100
19	Acrylonitrile	53	3.525	3.525	(0.630)	41385	50.0000	53
20	trans-1,2-Dichloroethene	96	3.560	3.560	(0.637)	176913	50.0000	51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	21 Methyl tert-butyl ether	73	3.572	3.572	(0.639)	361034	50.0000	54
	22 1,1-Dichloroethane	63	3.932	3.932	(0.703)	353870	50.0000	52
	23 Vinyl acetate	43	3.978	3.978	(0.711)	502635	50.0000	56
	24 Diisopropyl Ether	45	4.002	4.002	(0.716)	665843	50.0000	56
	25 Ethyl tert-butyl ether	59	4.338	4.338	(0.776)	482905	50.0000	56
	26 cis-1,2-Dichloroethene	96	4.466	4.466	(0.799)	182995	50.0000	52
	27 2-Butanone	72	4.478	4.478	(0.801)	41769	50.0000	47(Q)
	28 2,2-Dichloropropane	77	4.478	4.478	(0.801)	260088	50.0000	50
	29 Bromochloromethane	128	4.698	4.698	(0.840)	87153	50.0000	52
	30 Tetrahydrofuran	72	4.745	4.745	(0.848)	27307	100.000	120
	31 Chloroform	83	4.768	4.768	(0.853)	325876	50.0000	52
$	32 Dibromofluoromethane	113	4.919	4.919	(0.880)	133171	50.0000	48
	33 1,1,1-Trichloroethane	97	4.965	4.965	(0.888)	272872	50.0000	52
	34 Cyclohexane	56	5.023	5.023	(0.898)	302871	50.0000	54
	35 1,1-Dichloropropene	110	5.116	5.116	(0.915)	82641	50.0000	53
	36 Carbon Tetrachloride	117	5.128	5.128	(0.917)	239944	50.0000	52
M	37 1,2-dichloroethene, (Total)	100				359908	100.000	100
$	38 1,2-Dichloroethane-d4	102	5.256	5.256	(0.940)	20470	50.0000	45
	39 Benzene	78	5.325	5.325	(0.952)	627995	50.0000	52
	40 1,2-Dichloroethane	62	5.325	5.325	(0.952)	211221	50.0000	52
	41 tert-Amyl methyl ether	73	5.442	5.442	(0.973)	369806	50.0000	55
*	42 Fluorobenzene	96	5.593	5.593	(1.000)	398124	50.0000	
	43 Trichloroethene	130	5.976	5.976	(1.069)	170346	50.0000	52
	44 Methylcyclohexane	83	6.196	6.196	(1.108)	258221	50.0000	53
	45 1,2-Dichloropropane	63	6.208	6.208	(1.110)	177993	50.0000	53
	46 2-Chloroethyl vinyl ether	63	6.208	6.208	(1.110)	177993	50.0000	53(T)
	47 Dibromomethane	93	6.336	6.336	(1.133)	104878	50.0000	52
	48 1,4-Dioxane	88	6.359	6.359	(1.137)	19045	1000.00	1000
	49 Bromodichloromethane	83	6.498	6.498	(1.162)	221632	50.0000	54
	50 cis-1,3-Dichloropropene	75	7.009	7.009	(1.253)	242908	50.0000	54
	51 4-Methyl-2-pentanone	43	7.183	7.183	(1.284)	497191	50.0000	56
$	52 Toluene-d8	98	7.323	7.323	(0.807)	379886	50.0000	50
	53 Toluene	91	7.393	7.393	(1.322)	598974	50.0000	53
	54 trans-1,3-Dichloropropene	75	7.648	7.648	(1.368)	203405	50.0000	56
	55 1,1,2-Trichloroethane	97	7.869	7.869	(1.407)	109410	50.0000	49
	56 Tetrachloroethene	164	8.054	8.054	(0.887)	147032	50.0000	52
	57 1,3-Dichloropropane	76	8.066	8.066	(0.889)	199242	50.0000	53
	58 2-Hexanone	43	8.171	8.171	(0.900)	338498	50.0000	58
	59 Dibromochloromethane	129	8.345	8.345	(0.919)	150139	50.0000	56
	60 1,2-Dibromoethane	107	8.484	8.484	(0.935)	122930	50.0000	51
*	61 Chlorobenzene-d5	117	9.076	9.076	(1.000)	304854	50.0000	
	62 1-Chlorohexane	91	9.100	9.100	(1.003)	213749	50.0000	53(Q)
	63 Chlorobenzene	112	9.111	9.111	(1.004)	372813	50.0000	51
	64 1,1,1,2-Tetrachloroethane	131	9.216	9.216	(1.015)	148875	50.0000	54
	65 Ethylbenzene	106	9.262	9.262	(1.020)	198364	50.0000	52
	66 m,p-Xylene	106	9.413	9.413	(1.037)	491381	100.000	100
	67 o-Xylene	106	9.936	9.936	(1.095)	235845	50.0000	51
	68 Styrene	104	9.959	9.959	(1.097)	399890	50.0000	55
	69 Bromoform	173	10.180	10.180	(1.122)	88778	50.0000	55
	70 Isopropylbenzene	105	10.435	10.435	(1.150)	665868	50.0000	54
	71 trans-1,4-Dichloro-2-butene	75	10.516	10.516	(1.159)	36087	50.0000	58
$	72 Bromofluorobenzene	95	10.633	10.633	(1.171)	150350	50.0000	49
	73 Bromobenzene	156	10.830	10.830	(0.885)	177081	50.0000	53
	74 1,1,2,2-Tetrachloroethane	83	10.842	10.842	(0.886)	160649	50.0000	54

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4279.D
Report Date: 23-Jun-2013 10:42

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	75	1,2,3-Trichloropropane	75	10.888	10.888	(0.890)	145445	50.0000	54
	76	n-Propylbenzene	120	11.004	11.004	(0.899)	168976	50.0000	54
	77	2-Chlorotoluene	126	11.109	11.109	(0.908)	158662	50.0000	54
	78	4-Chlorotoluene	126	11.260	11.260	(0.920)	161877	50.0000	54
	79	1,3,5-Trimethylbenzene	105	11.260	11.260	(0.920)	537046	50.0000	55
	80	tert-Butylbenzene	119	11.701	11.701	(0.956)	526362	50.0000	54
	81	1,2,4-Trimethylbenzene	105	11.771	11.771	(0.962)	534033	50.0000	56
	82	sec-Butylbenzene	105	12.015	12.015	(0.982)	755355	50.0000	55
	83	1,3-Dichlorobenzene	146	12.142	12.142	(0.992)	322124	50.0000	54
	84	4-Isopropyltoluene	119	12.235	12.235	(1.000)	558495	50.0000	53
*	85	1,4-Dichlorobenzene-d4	152	12.235	12.235	(1.000)	161287	50.0000	
	86	1,2-Dichlorobenzene	146	12.270	12.270	(1.003)	330225	50.0000	55
M	87	Xylene (Total)	106				727226	150.000	160
	88	1,4-Dichlorobenzene	146	12.793	12.793	(1.046)	287652	50.0000	52
	89	n-Butylbenzene	91	12.816	12.816	(1.047)	624103	50.0000	54
	90	1,2-Dibromo-3-chloropropane	75	13.907	13.907	(1.137)	20908	50.0000	55
	91	1,3,5-Trichlorobenzene	180	15.127	15.127	(2.705)	226807	50.0000	54
	92	1,2,4-Trichlorobenzene	180	15.127	15.127	(1.236)	226807	50.0000	55
	93	Hexachlorobutadiene	225	15.406	15.406	(1.259)	164825	50.0000	54
	94	Naphthalene	128	15.464	15.464	(1.264)	364420	50.0000	71
	95	1,2,3-Trichlorobenzene	180	15.824	15.824	(1.293)	199764	50.0000	54

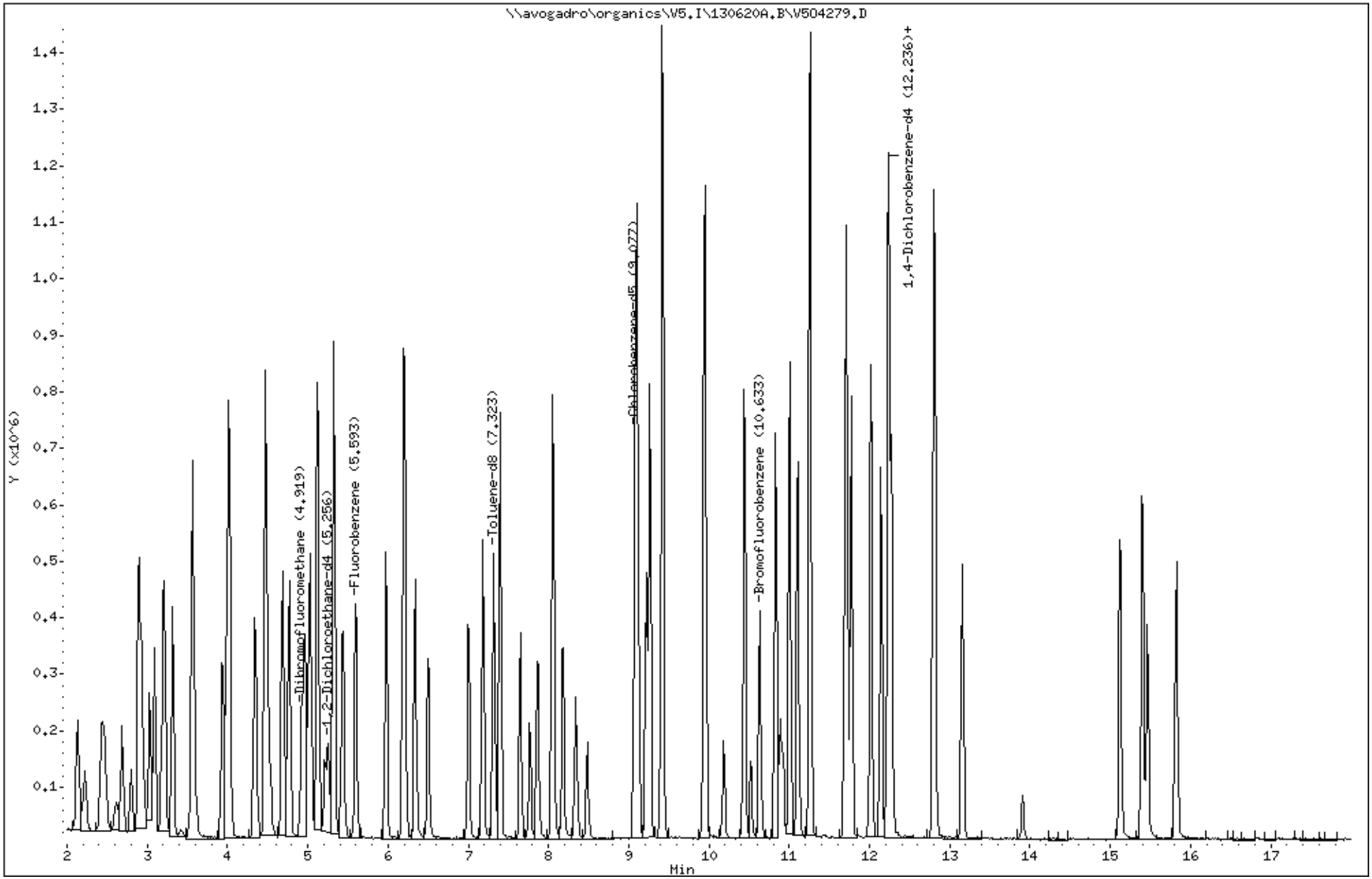
QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504279.D
Date : 20-JUN-2013 16:29
Client ID: VSTD050W5
Sample Info: 5G,VSTD050W5,VSTD050W5

Instrument: V5.i

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



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\V5.I\130620.B\V5O4270.D
Lab Smp Id: BFBV5 Client Smp ID: BFBV5
Inj Date : 20-JUN-2013 09:05
Operator : WL SRC: WL Inst ID: V5.i
Smp Info : 2UL,BFBV5,BFBV5
Misc Info :
Comment :
Method : \\avogadro\organics\V5.I\130620.B\bfb8260.m
Meth Date : 11-Jun-2013 11:02 wluo 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: WATER
Processing Host: TARGET103

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	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
10.628	11.000	(0.000)	95	47688			0.00- 100.00	100.00
10.628	11.000	(0.000)	50	11446			15.00- 40.00	24.00
10.628	11.000	(0.000)	75	22968			30.00- 60.00	48.16
10.628	11.000	(0.000)	96	3611			5.00- 9.00	7.57
10.628	11.000	(0.000)	173	174			0.00- 2.00	0.40
10.628	11.000	(0.000)	174	44008			50.00- 100.00	92.28
10.628	11.000	(0.000)	175	2999			5.00- 9.00	6.81
10.628	11.000	(0.000)	176	42176			95.00- 101.00	95.84
10.628	11.000	(0.000)	177	2885			5.00- 9.00	6.84

Data File: \\avogadro\organics\V5.I\130620.B\V504270.D

Date : 20-JUN-2013 09:05

Client ID: BFBV5

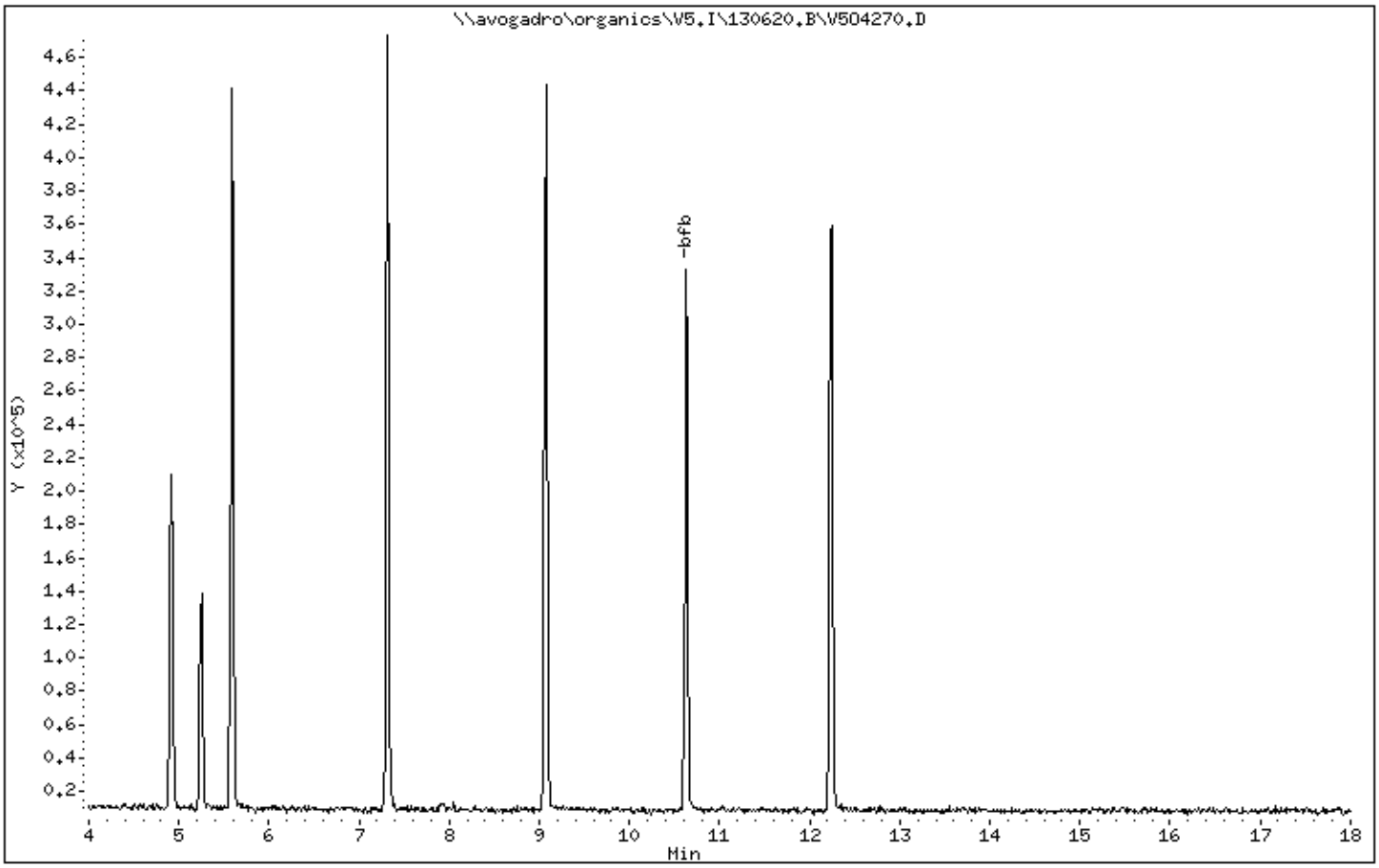
Instrument: V5.i

Sample Info: 2UL,BFBV5,BFBV5

Operator: WL SRC: WL

Column phase: DB-624

Column diameter: 0.25



Data File: \\avogadro\organics\V5.I\130620.B\V504270.D

Date : 20-JUN-2013 09:05

Client ID: BFBV5

Instrument: V5.i

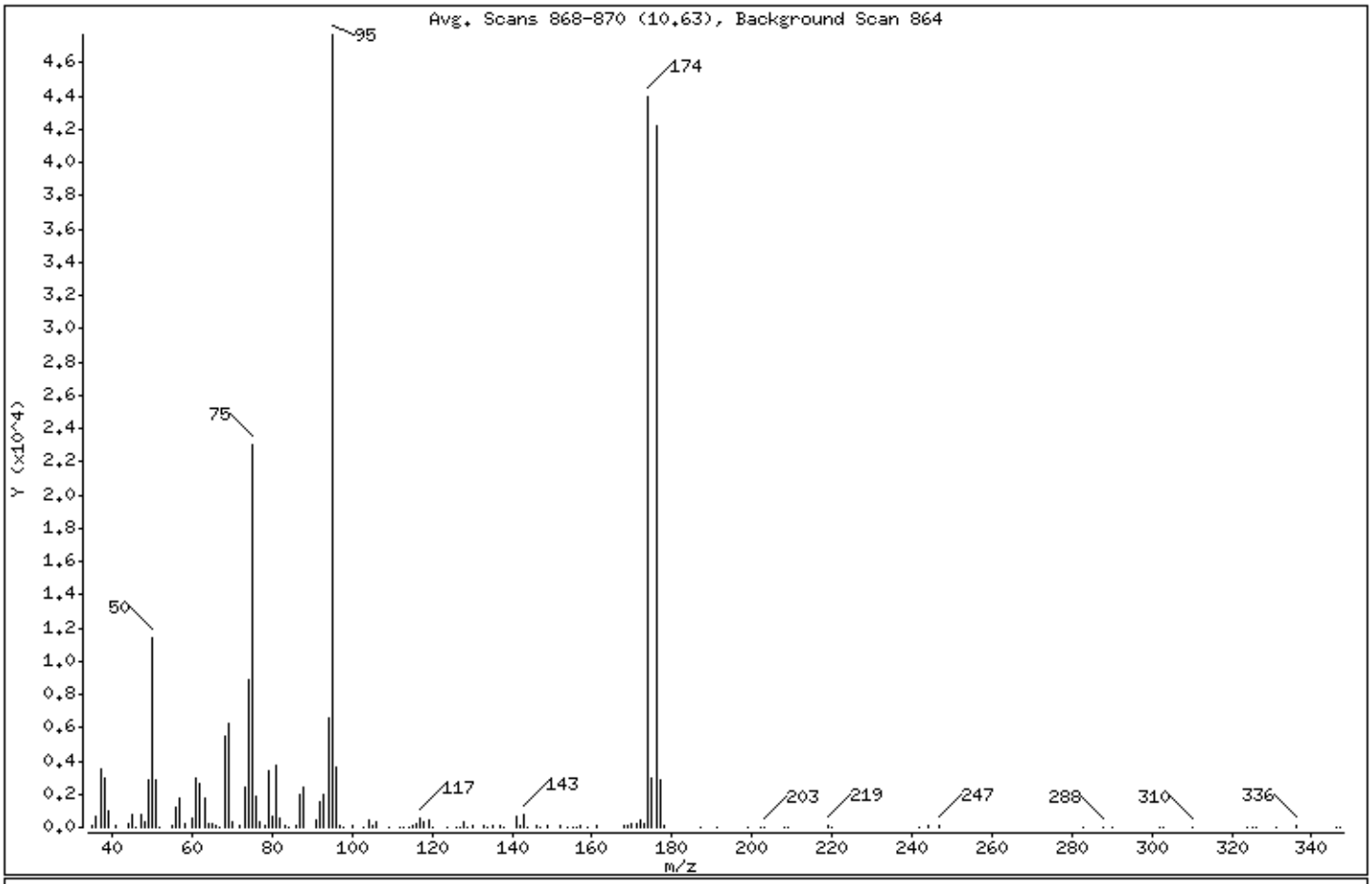
Sample Info: 2UL,BFBV5,BFBV5

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	24.00
75	30.00 - 60.00% of mass 95	48.16
96	5.00 - 9.00% of mass 95	7.57
173	Less than 2.00% of mass 174	0.36 (0.40)
174	50.00 - 100.00% of mass 95	92.28
175	5.00 - 9.00% of mass 174	6.29 (6.81)
176	95.00 - 101.00% of mass 174	88.44 (95.84)
177	5.00 - 9.00% of mass 176	6.05 (6.84)

Date : 20-JUN-2013 09:05

Client ID: BFBV5 Instrument: V5.i

Sample Info: 2UL,BFBV5,BFBV5

Operator: WL SRC: WL

Column phase: DB-624 Column diameter: 0.25

Data File: V504270.D
Spectrum: Avg. Scans 868-870 (10.63), Background Scan 864
Location of Maximum: 95.00
Number of points: 130

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	58	75.00	22968	118.00	313	173.00	174
36.00	603	76.00	1906	119.00	466	174.00	44008
37.00	3558	77.00	315	120.00	48	175.00	2999
38.00	2922	78.00	79	124.00	42	176.00	42176
39.00	990	79.00	3423	126.00	49	177.00	2885
41.00	61	80.00	663	127.00	37	178.00	120
44.00	274	81.00	3764	128.00	278	187.00	33
45.00	720	82.00	565	129.00	39	191.00	45
46.00	15	83.00	153	130.00	144	199.00	40
47.00	725	84.00	36	133.00	72	202.00	37
48.00	378	86.00	162	134.00	36	203.00	50
49.00	2815	87.00	1933	135.00	97	208.00	36
50.00	11446	88.00	2423	137.00	149	209.00	45
51.00	2828	91.00	478	138.00	38	219.00	139
52.00	53	92.00	1583	141.00	667	220.00	49
55.00	133	93.00	1977	142.00	133	242.00	39
56.00	1164	94.00	6605	143.00	755	244.00	56
57.00	1792	95.00	47688	144.00	43	247.00	89
58.00	214	96.00	3611	146.00	114	283.00	40
60.00	578	97.00	94	147.00	37	288.00	42
61.00	2965	98.00	41	149.00	71	290.00	34
62.00	2590	100.00	132	152.00	73	302.00	37
63.00	1763	103.00	37	154.00	45	303.00	35
64.00	268	104.00	455	155.00	36	310.00	38
65.00	183	105.00	156	156.00	37	324.00	54
66.00	81	106.00	327	157.00	57	325.00	40
67.00	46	109.00	48	159.00	54	326.00	36
68.00	5442	112.00	35	161.00	79	331.00	37
69.00	6234	113.00	40	168.00	59	336.00	60
70.00	284	114.00	50	169.00	121	346.00	34
72.00	156	115.00	84	170.00	217	347.00	33
73.00	2387	116.00	228	171.00	197		
74.00	8927	117.00	534	172.00	387		

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4278.D
Lab Smp Id: BFBW5 Client Smp ID: BFBW5
Inj Date : 20-JUN-2013 15:11
Operator : WL SRC: WL Inst ID: V5.i
Smp Info : 2UL,BFBW5,BFBW5
Misc Info :
Comment :
Method : \\avogadro\organics\V5.I\130620A.B\bfb8260.m
Meth Date : 21-Jun-2013 09:35 wluo 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: WATER
Processing Host: TARGET103

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	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
10.634	11.000	(0.000)	95	41360			0.00- 100.00	100.00
10.634	11.000	(0.000)	50	10361			15.00- 40.00	25.05
10.634	11.000	(0.000)	75	20688			30.00- 60.00	50.02
10.634	11.000	(0.000)	96	2650			5.00- 9.00	6.41
10.634	11.000	(0.000)	173	370			0.00- 2.00	0.96
10.634	11.000	(0.000)	174	38464			50.00- 100.00	93.00
10.634	11.000	(0.000)	175	3170			5.00- 9.00	8.24
10.634	11.000	(0.000)	176	37880			95.00- 101.00	98.48
10.634	11.000	(0.000)	177	2295			5.00- 9.00	6.06

Data File: \\avogadro\organics\V5.I\130620A.B\V504278.D

Date : 20-JUN-2013 15:11

Client ID: BFBW5

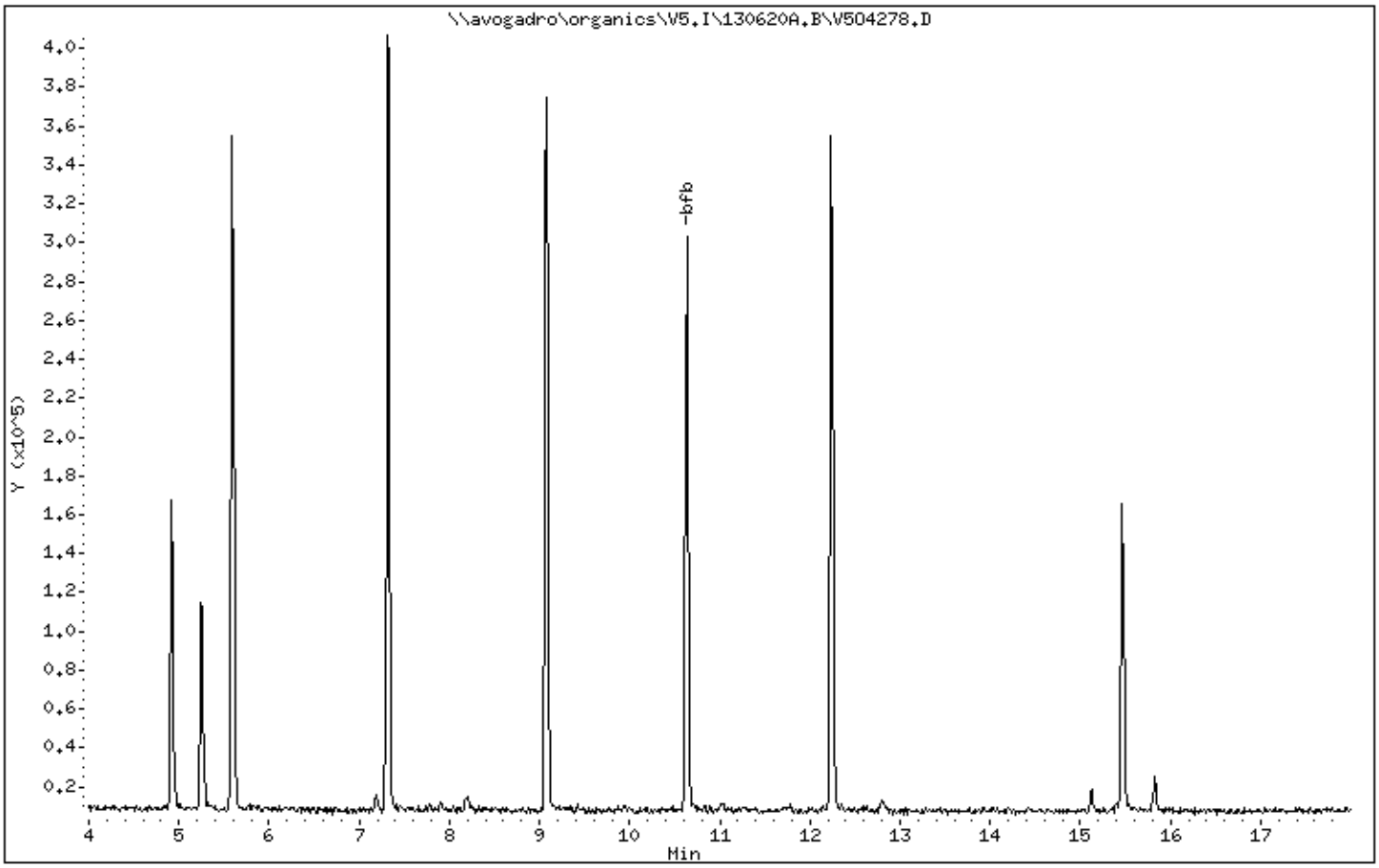
Instrument: V5.i

Sample Info: 2UL,BFBW5,BFBW5

Operator: WL SRC: WL

Column phase: DB-624

Column diameter: 0.25



Data File: \\avogadro\organics\V5.I\130620A.B\V504278.D

Date : 20-JUN-2013 15:11

Client ID: BFBW5

Instrument: V5.i

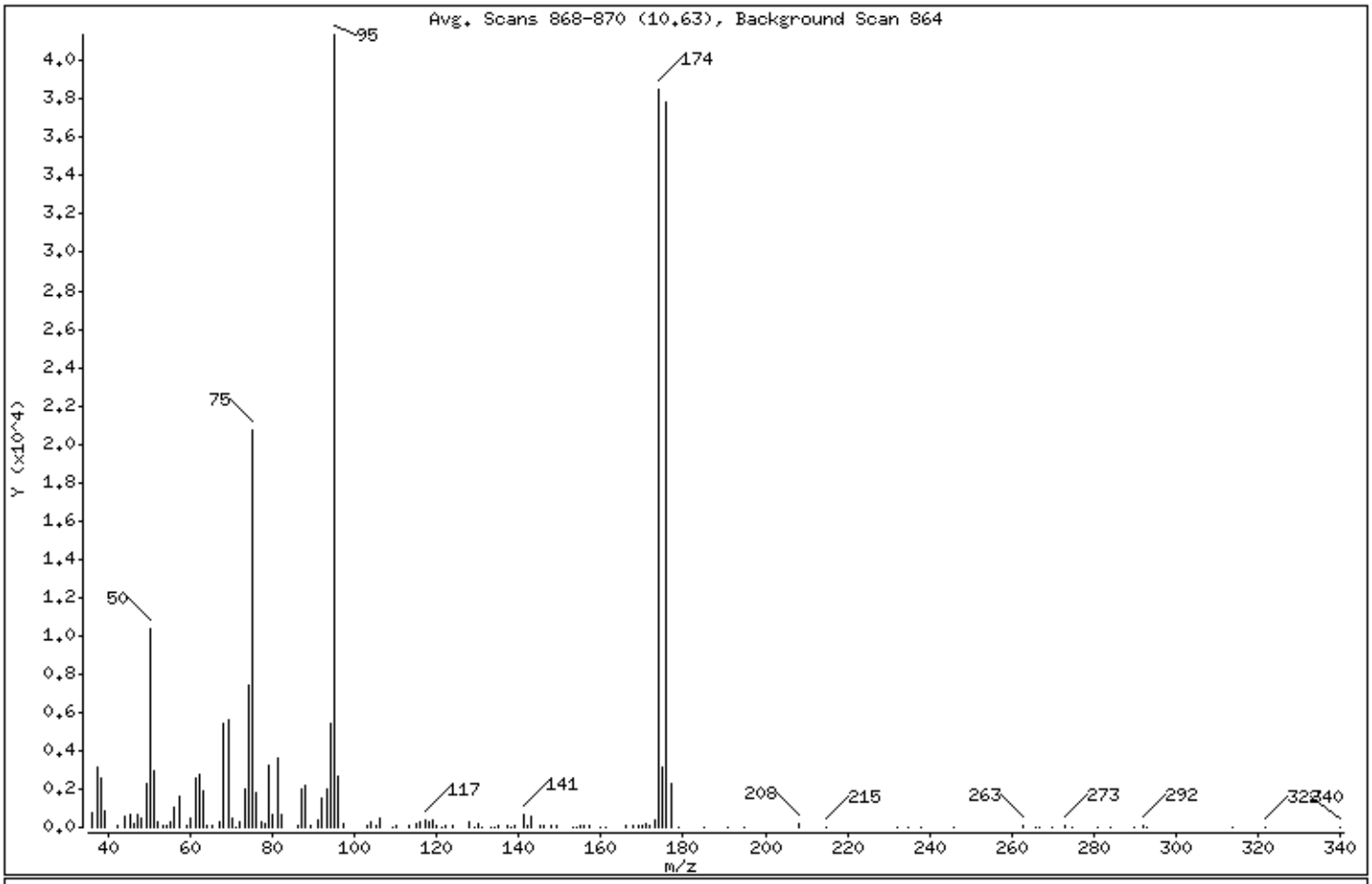
Sample Info: 2UL,BFBW5,BFBW5

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	25.05
75	30.00 - 60.00% of mass 95	50.02
96	5.00 - 9.00% of mass 95	6.41
173	Less than 2.00% of mass 174	0.89 (0.96)
174	50.00 - 100.00% of mass 95	93.00
175	5.00 - 9.00% of mass 174	7.66 (8.24)
176	95.00 - 101.00% of mass 174	91.59 (98.48)
177	5.00 - 9.00% of mass 176	5.55 (6.06)

Date : 20-JUN-2013 15:11

Client ID: BFBW5 Instrument: V5.i

Sample Info: 2UL,BFBW5,BFBW5

Operator: WL SRC: WL

Column phase: DB-624 Column diameter: 0.25

Data File: V504278.D
Spectrum: Avg. Scans 868-870 (10.63), Background Scan 864
Location of Maximum: 95.00
Number of points: 128

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	752	74.00	7415	121.00	42	173.00	370
37.00	3183	75.00	20688	122.00	64	174.00	38464
38.00	2560	76.00	1833	124.00	75	175.00	3170
39.00	847	77.00	308	128.00	276	176.00	37880
42.00	77	78.00	211	129.00	42	177.00	2295
44.00	534	79.00	3213	130.00	226	179.00	35
45.00	649	80.00	708	131.00	46	185.00	33
46.00	157	81.00	3640	133.00	38	191.00	35
47.00	648	82.00	697	134.00	37	195.00	39
48.00	432	86.00	133	135.00	120	208.00	157
49.00	2270	87.00	2016	137.00	83	215.00	44
50.00	10361	88.00	2185	138.00	42	232.00	41
51.00	2922	89.00	78	139.00	84	235.00	38
52.00	269	91.00	343	141.00	691	238.00	35
53.00	71	92.00	1516	142.00	140	246.00	33
54.00	48	93.00	1957	143.00	554	263.00	69
55.00	239	94.00	5433	145.00	55	266.00	36
56.00	1063	95.00	41360	146.00	93	267.00	37
57.00	1622	96.00	2650	148.00	104	270.00	34
59.00	97	97.00	162	149.00	70	273.00	59
60.00	509	103.00	97	153.00	43	275.00	36
61.00	2574	104.00	267	154.00	40	281.00	34
62.00	2745	105.00	128	155.00	123	284.00	36
63.00	1912	106.00	434	156.00	49	290.00	39
64.00	133	109.00	34	157.00	94	292.00	50
65.00	74	110.00	78	160.00	39	293.00	41
67.00	257	113.00	85	161.00	41	314.00	35
68.00	5424	115.00	152	166.00	105	322.00	34
69.00	5634	116.00	304	168.00	79	340.00	34
70.00	480	117.00	400	169.00	126		
71.00	45	118.00	254	170.00	105		
72.00	313	119.00	364	171.00	228		
73.00	1954	120.00	96	172.00	58		

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-72200

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-72200

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4282.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/20/2013

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-72200

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-72200

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4282.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/20/2013

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4282.D
Report Date: 23-Jun-2013 10:42

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4282.D
Lab Smp Id: MB-72200 Client Smp ID: VBLKW5
Inj Date : 20-JUN-2013 17:47
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,MB-72200,VBLKW5,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET103

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

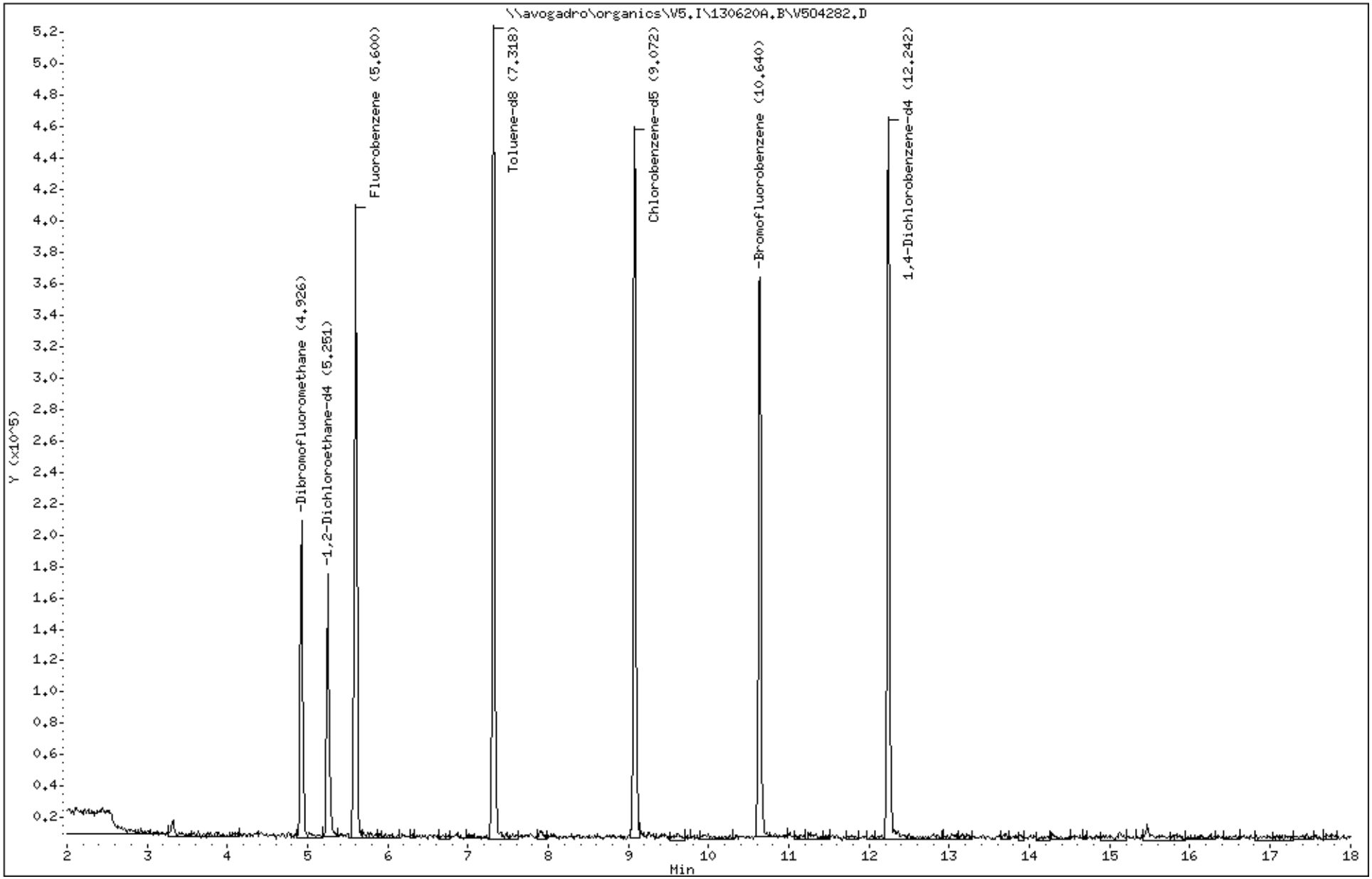
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 32 Dibromofluoromethane	113	4.926	4.919	(0.880)	128019	47.7847	48
$ 38 1,2-Dichloroethane-d4	102	5.251	5.256	(0.938)	21623	48.2143	48
* 42 Fluorobenzene	96	5.599	5.593	(1.000)	389139	50.0000	
$ 52 Toluene-d8	98	7.318	7.323	(0.807)	368488	51.1469	51
* 61 Chlorobenzene-d5	117	9.072	9.076	(1.000)	290933	50.0000	
$ 72 Bromofluorobenzene	95	10.628	10.633	(1.172)	146712	50.1558	50
* 85 1,4-Dichlorobenzene-d4	152	12.242	12.235	(1.000)	151129	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504282.D
Date : 20-JUN-2013 17:47
Client ID: VBLKW5
Instrument: V5.i
Sample Info: 5G,MB-72200,VBLKW5,72200
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-72200

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-72200

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4280.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/20/2013

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	54	
74-87-3	Chloromethane	57	
75-01-4	Vinyl chloride	59	
74-83-9	Bromomethane	57	
75-00-3	Chloroethane	56	
75-69-4	Trichlorofluoromethane	55	
75-35-4	1,1-Dichloroethene	54	
67-64-1	Acetone	56	
74-88-4	Iodomethane	55	
75-15-0	Carbon disulfide	56	
75-09-2	Methylene chloride	53	
156-60-5	trans-1,2-Dichloroethene	56	
1634-04-4	Methyl tert-butyl ether	61	
75-34-3	1,1-Dichloroethane	56	
108-05-4	Vinyl acetate	62	
78-93-3	2-Butanone	64	
156-59-2	cis-1,2-Dichloroethene	56	
594-20-7	2,2-Dichloropropane	56	
74-97-5	Bromochloromethane	55	
67-66-3	Chloroform	55	
71-55-6	1,1,1-Trichloroethane	55	
563-58-6	1,1-Dichloropropene	55	
56-23-5	Carbon tetrachloride	56	
107-06-2	1,2-Dichloroethane	56	
71-43-2	Benzene	55	
79-01-6	Trichloroethene	55	
78-87-5	1,2-Dichloropropane	57	
74-95-3	Dibromomethane	57	
75-27-4	Bromodichloromethane	57	
10061-01-5	cis-1,3-Dichloropropene	60	
108-10-1	4-Methyl-2-pentanone	70	
108-88-3	Toluene	55	
10061-02-6	trans-1,3-Dichloropropene	63	
79-00-5	1,1,2-Trichloroethane	56	
142-28-9	1,3-Dichloropropane	58	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-72200

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-72200

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O4280.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/20/2013

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
127-18-4	Tetrachloroethene	55	
591-78-6	2-Hexanone	73	
124-48-1	Dibromochloromethane	59	
106-93-4	1,2-Dibromoethane	59	
108-90-7	Chlorobenzene	54	
630-20-6	1,1,1,2-Tetrachloroethane	57	
100-41-4	Ethylbenzene	56	
179601-23-1	m,p-Xylene	110	
95-47-6	o-Xylene	57	
1330-20-7	Xylene (Total)	170	
100-42-5	Styrene	59	
75-25-2	Bromoform	65	
98-82-8	Isopropylbenzene	58	
79-34-5	1,1,2,2-Tetrachloroethane	62	
108-86-1	Bromobenzene	55	
96-18-4	1,2,3-Trichloropropane	64	
103-65-1	n-Propylbenzene	55	
95-49-8	2-Chlorotoluene	57	
108-67-8	1,3,5-Trimethylbenzene	57	
106-43-4	4-Chlorotoluene	57	
98-06-6	tert-Butylbenzene	57	
95-63-6	1,2,4-Trimethylbenzene	58	
135-98-8	sec-Butylbenzene	56	
99-87-6	4-Isopropyltoluene	56	
541-73-1	1,3-Dichlorobenzene	56	
106-46-7	1,4-Dichlorobenzene	56	
104-51-8	n-Butylbenzene	56	
95-50-1	1,2-Dichlorobenzene	57	
96-12-8	1,2-Dibromo-3-chloropropane	66	
120-82-1	1,2,4-Trichlorobenzene	58	
87-68-3	Hexachlorobutadiene	56	
87-61-6	1,2,3-Trichlorobenzene	60	
91-20-3	Naphthalene	77	

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4280.D
Report Date: 23-Jun-2013 10:42

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V5.I\130620A.B\V5O4280.D
Lab Smp Id: LCS-72200 Client Smp ID: VLCSW5
Inj Date : 20-JUN-2013 16:55
Operator : WL   SRC: LIMS Inst ID: V5.i
Smp Info : 5G,LCS-72200,VLCSW5,72200
Misc Info :
Comment   :
Method   : \\avogadro\organics\V5.I\130620A.B\v58260GH.m
Meth Date : 21-Jun-2013 09:35 wluo Quant Type: ISTD
Cal Date : 20-JUN-2013 14:45 Cal File: V5O4275.D
Als bottle: 11 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	1.581	1.598	(0.282)	291875	50.0000	54
2	Chloromethane	50	1.709	1.714	(0.305)	317610	50.0000	57
3	Vinyl Chloride	62	1.825	1.830	(0.326)	284038	50.0000	58
4	Bromomethane	94	2.127	2.132	(0.380)	192055	50.0000	57
5	Chloroethane	64	2.208	2.225	(0.394)	137527	50.0000	56
6	Trichlorofluoromethane	101	2.429	2.445	(0.434)	378562	50.0000	55
7	Ethanol	46	2.615	2.620	(0.467)	87387	5000.00	7100(A)
8	Ether	59	2.684	2.689	(0.479)	128076	50.0000	59
9	Acrolein	56	2.789	2.805	(0.498)	170529	250.000	320(A)
10	1,1-Dichloroethene	96	2.882	2.898	(0.515)	170922	50.0000	54
11	1,1,2-Trichloro-1,2,2-trifluo	101	2.928	2.922	(0.523)	190248	50.0000	52
12	Acetone	58	2.928	2.933	(0.523)	53450	50.0000	56
13	Iodomethane	142	3.021	3.026	(0.540)	321696	50.0000	55
14	Carbon Disulfide	76	3.079	3.084	(0.550)	588704	50.0000	56
15	Acetonitrile	40	3.172	3.177	(0.567)	141744	500.000	630(AQ)
16	Methyl Acetate	43	3.219	3.223	(0.575)	141834	50.0000	62
17	Methylene Chloride	84	3.312	3.316	(0.591)	195367	50.0000	53
18	tert-Butanol	59	3.416	3.421	(0.610)	30966	100.000	140
19	Acrylonitrile	53	3.521	3.525	(0.629)	48047	50.0000	63
20	trans-1,2-Dichloroethene	96	3.555	3.560	(0.635)	191074	50.0000	56
21	Methyl tert-butyl ether	73	3.567	3.572	(0.637)	393114	50.0000	60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 1,1-Dichloroethane	63	3.927	3.932	(0.701)	371357	50.0000	56
	23 Vinyl acetate	43	3.985	3.978	(0.712)	545044	50.0000	62
	24 Diisopropyl Ether	45	3.997	4.002	(0.714)	703873	50.0000	60
	25 Ethyl tert-butyl ether	59	4.334	4.338	(0.774)	514349	50.0000	61
	26 cis-1,2-Dichloroethene	96	4.473	4.466	(0.799)	192826	50.0000	56
	27 2-Butanone	72	4.473	4.478	(0.799)	55990	50.0000	64
	28 2,2-Dichloropropane	77	4.473	4.478	(0.799)	286772	50.0000	56
	29 Bromochloromethane	128	4.694	4.698	(0.838)	89646	50.0000	55
	30 Tetrahydrofuran	72	4.752	4.745	(0.849)	31913	100.000	140
	31 Chloroform	83	4.763	4.768	(0.851)	338279	50.0000	55
$	32 Dibromofluoromethane	113	4.926	4.919	(0.880)	133468	50.0000	50
	33 1,1,1-Trichloroethane	97	4.961	4.965	(0.886)	285265	50.0000	55
	34 Cyclohexane	56	5.019	5.023	(0.896)	319129	50.0000	58
	35 1,1-Dichloropropene	110	5.112	5.116	(0.913)	83775	50.0000	55
	36 Carbon Tetrachloride	117	5.123	5.128	(0.915)	252011	50.0000	56
M	37 1,2-dichloroethene, (Total)	100				383900	100.000	110
$	38 1,2-Dichloroethane-d4	102	5.251	5.256	(0.938)	23155	50.0000	51
	39 Benzene	78	5.321	5.325	(0.950)	654634	50.0000	55
	40 1,2-Dichloroethane	62	5.321	5.325	(0.950)	223119	50.0000	56
	41 tert-Amyl methyl ether	73	5.437	5.442	(0.971)	401944	50.0000	60
*	42 Fluorobenzene	96	5.599	5.593	(1.000)	390519	50.0000	
	43 Trichloroethene	130	5.983	5.976	(1.068)	175931	50.0000	55
	44 Methylcyclohexane	83	6.192	6.196	(1.106)	273270	50.0000	57
	45 1,2-Dichloropropane	63	6.203	6.208	(1.108)	188006	50.0000	57
	46 2-Chloroethyl vinyl ether	63	6.203	6.208	(1.108)	188006	50.0000	57(T)
	47 Dibromomethane	93	6.331	6.336	(1.131)	113121	50.0000	57
	48 1,4-Dioxane	88	6.354	6.359	(1.135)	23745	1000.00	1300
	49 Bromodichloromethane	83	6.505	6.498	(1.162)	227573	50.0000	57
	50 cis-1,3-Dichloropropene	75	7.005	7.009	(1.251)	266980	50.0000	60
	51 4-Methyl-2-pentanone	43	7.179	7.183	(1.282)	606257	50.0000	70
$	52 Toluene-d8	98	7.318	7.323	(0.807)	382815	50.0000	51
	53 Toluene	91	7.399	7.393	(1.321)	616873	50.0000	55
	54 trans-1,3-Dichloropropene	75	7.643	7.648	(1.365)	224697	50.0000	63
	55 1,1,2-Trichloroethane	97	7.864	7.869	(1.404)	124528	50.0000	56
	56 Tetrachloroethene	164	8.050	8.054	(0.887)	153544	50.0000	55
	57 1,3-Dichloropropane	76	8.061	8.066	(0.889)	218928	50.0000	58
	58 2-Hexanone	43	8.177	8.171	(0.901)	427832	50.0000	73
	59 Dibromochloromethane	129	8.340	8.345	(0.919)	158442	50.0000	59
	60 1,2-Dibromoethane	107	8.479	8.484	(0.935)	140341	50.0000	59
*	61 Chlorobenzene-d5	117	9.072	9.076	(1.000)	303682	50.0000	
	62 1-Chlorohexane	91	9.095	9.100	(1.003)	227683	50.0000	56(Q)
	63 Chlorobenzene	112	9.107	9.111	(1.004)	394684	50.0000	54
	64 1,1,1,2-Tetrachloroethane	131	9.223	9.216	(1.017)	156582	50.0000	57
	65 Ethylbenzene	106	9.257	9.262	(1.020)	212498	50.0000	56
	66 m,p-Xylene	106	9.420	9.413	(1.038)	516552	100.000	110
	67 o-Xylene	106	9.931	9.936	(1.095)	259299	50.0000	56
	68 Styrene	104	9.954	9.959	(1.097)	422355	50.0000	58
	69 Bromoform	173	10.187	10.180	(1.123)	105142	50.0000	65
	70 Isopropylbenzene	105	10.442	10.435	(1.151)	710947	50.0000	58
	71 trans-1,4-Dichloro-2-butene	75	10.523	10.516	(1.160)	44628	50.0000	72
$	72 Bromofluorobenzene	95	10.628	10.633	(1.172)	158418	50.0000	52
	73 Bromobenzene	156	10.825	10.830	(0.884)	188411	50.0000	55
	74 1,1,2,2-Tetrachloroethane	83	10.837	10.842	(0.885)	185180	50.0000	62
	75 1,2,3-Trichloropropane	75	10.895	10.888	(0.890)	172296	50.0000	64

Data File: \\avogadro\organics\V5.I\130620A.B\V5O4280.D
Report Date: 23-Jun-2013 10:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	76 n-Propylbenzene	120	10.999	11.004	(0.899)	176994	50.0000	55
	77 2-Chlorotoluene	126	11.104	11.109	(0.907)	167515	50.0000	56
	78 4-Chlorotoluene	126	11.255	11.260	(0.919)	171754	50.0000	57
	79 1,3,5-Trimethylbenzene	105	11.255	11.260	(0.919)	566892	50.0000	57
	80 tert-Butylbenzene	119	11.708	11.701	(0.956)	556401	50.0000	57
	81 1,2,4-Trimethylbenzene	105	11.778	11.771	(0.962)	565663	50.0000	58
	82 sec-Butylbenzene	105	12.021	12.015	(0.982)	775605	50.0000	56
	83 1,3-Dichlorobenzene	146	12.149	12.142	(0.992)	341069	50.0000	56
	84 4-Isopropyltoluene	119	12.230	12.235	(0.999)	595784	50.0000	56
*	85 1,4-Dichlorobenzene-d4	152	12.242	12.235	(1.000)	163277	50.0000	
	86 1,2-Dichlorobenzene	146	12.277	12.270	(1.003)	349651	50.0000	57
M	87 Xylene (Total)	106				775851	150.000	170
	88 1,4-Dichlorobenzene	146	12.799	12.793	(1.046)	311331	50.0000	56
	89 n-Butylbenzene	91	12.811	12.816	(1.046)	654740	50.0000	56
	90 1,2-Dibromo-3-chloropropane	75	13.903	13.907	(1.136)	25310	50.0000	66
	91 1,3,5-Trichlorobenzene	180	15.122	15.127	(2.701)	243829	50.0000	59
	92 1,2,4-Trichlorobenzene	180	15.122	15.127	(1.235)	243829	50.0000	58
	93 Hexachlorobutadiene	225	15.401	15.406	(1.258)	174730	50.0000	56
	94 Naphthalene	128	15.470	15.464	(1.264)	401241	50.0000	77
	95 1,2,3-Trichlorobenzene	180	15.819	15.824	(1.292)	224444	50.0000	60

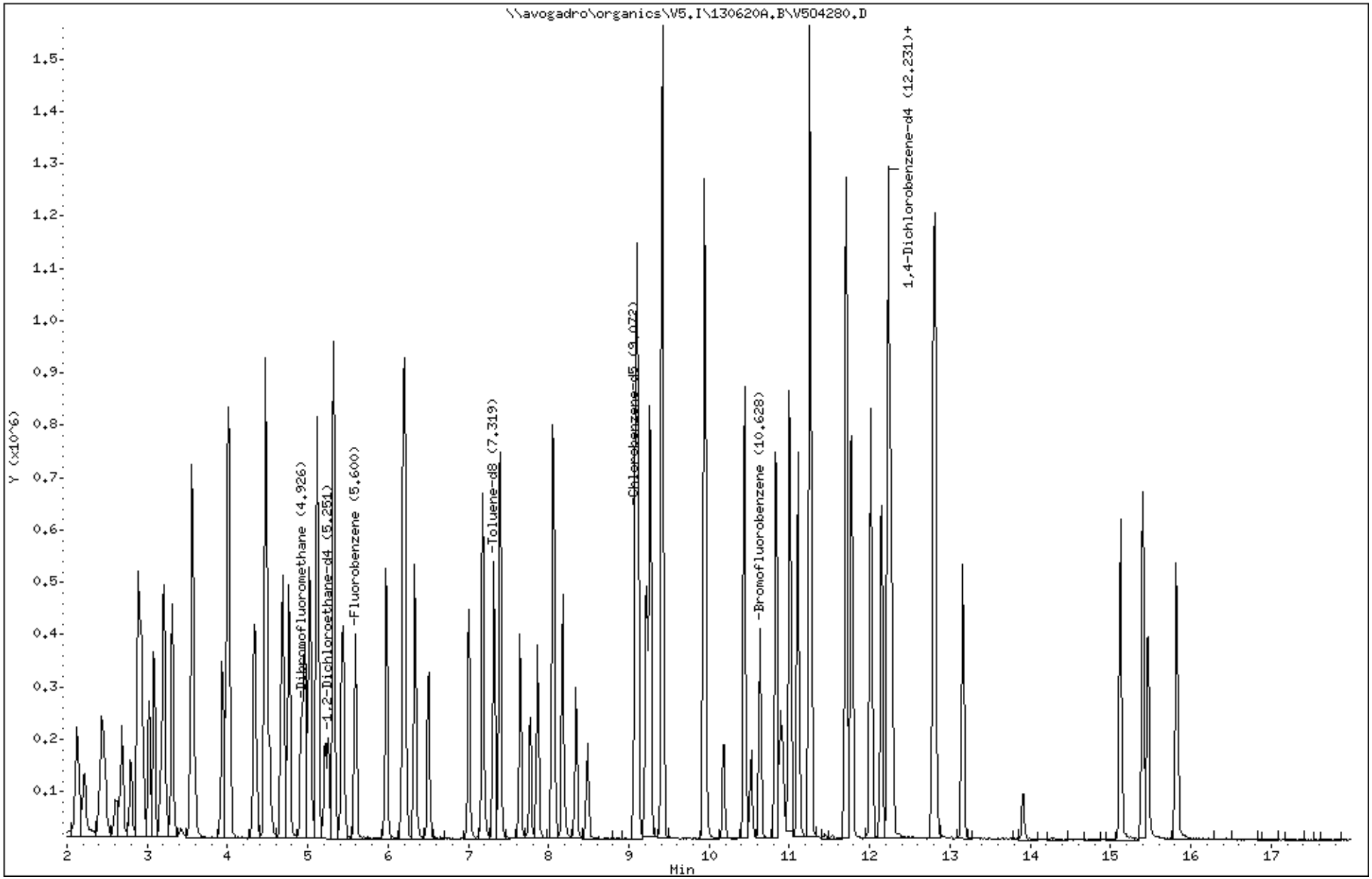
QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V5.I\130620A.B\V504280.D
Date : 20-JUN-2013 16:55
Client ID: VLCSW5
Sample Info: 5G,LCS-72200,VLCSW5,72200

Instrument: V5.i

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



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
6-19-13	M0983	13B	8260M	29.02	36.72	7.7	5.0	A	MeOH		
		14B		29.14	37.92	8.8					
		15B		29.07	37.12	8.1					
		16B		29.54	37.96	8.4					
		17B		28.83	37.20	8.4					
		18B		29.09	40.54	11.5					
		19B	8260M	29.22	37.19	8.0					
6/19/13	M0983	20B	8260M	29.12	40.79	11.7	5.0	A	MeOH		
	MB-72200		8260	MB	MB	5.0		E	DIH2O		
	LCS-72200							E			
	LCSD-72200			MB	MB	5.0		E			
	M0967-01B			33.44	40.16	6.7		B			
	M0967-02B			32.12	39.74	7.6		B			
	M0975-01A			MB	MB	5.1		E			
6/19/13	M0975-02A		8260	MB	MB	5.0	5.0	E	DIH2O		

*=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: 90.0189-12/12

Reviewed By: 6/21/13

MD975

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
6/19/13	MD975	-03A	8260	MD	MD	5.1	5.0	E	DIH2O		WL
		-05A				5.0					
		-06A				5.1					
		-08A				5.2					
		-09A				5.1					
		-10A				5.0					
		-12A				5.1					
		-13A				5.1					
		-15A				5.0					
		-16A				5.1					
	MD975	-17A		MD	MD	5.1		E			
	MD996	-06D		32.91	38.65	5.8		B			
	MD955	-01A		33.52	33.52	5.0					
		-02C		32.29	44.08	11.8		B			
6/19/13	MD955	-03C	8260	32.51	42.97	10.5	5.0	B	DIH2O		WL

*=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: 90.0189-12/12

Reviewed By: WL 6/21/13

Percent Moisture and Percent Solids Report

Lab Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
M0975-01A	A-1-3-061313	06/18/2013	20.881	79.119	Yes
M0975-02A	A-2-2-061313	06/18/2013	25.000	75.000	Yes
M0975-03A	A-3-1-061313	06/18/2013	18.921	81.079	Yes
M0975-04A	COMP-A-061313	06/18/2013	21.460	78.540	Yes
M0975-05A	B-1-4-061313	06/18/2013	18.650	81.350	Yes
M0975-06A	B-2-1-061313	06/18/2013	18.229	81.771	Yes
M0975-07A	COMP-B-061313	06/18/2013	20.671	79.329	Yes
M0975-08A	C-1-2-061313	06/18/2013	23.940	76.060	Yes
M0975-09A	C-2-3-061313	06/18/2013	25.535	74.465	Yes
M0975-10A	C-3-2-061313	06/18/2013	23.295	76.705	Yes
M0975-11A	COMP-C-061313	06/18/2013	17.278	82.722	Yes
M0975-12A	D-1-1-061313	06/18/2013	17.479	82.521	Yes
M0975-13A	D-3-4-061313	06/18/2013	19.204	80.796	Yes
M0975-14A	COMP-D-061313	06/18/2013	20.900	79.100	Yes
M0975-15A	E-1-3-061313	06/18/2013	15.889	84.111	Yes
M0975-16A	E-2-4-061313	06/18/2013	24.763	75.237	Yes
M0975-17A	E-3-2-061313	06/18/2013	23.279	76.721	Yes
M0975-18A	COMP-E-061313	06/18/2013	16.103	83.897	Yes

M0975

METHOD: CAL ID: ANALYST:

INITIAL CAL: IS/SS ID: ARCHIVE:

COMMENTS: ICV ID:

Spectrum Analytical, Inc. RI Division V5 Injection Log
Volatiles Laboratory

METHOD: 8260_L-5 ANALYST: WL
ICAL DATE: 6/20/13

BATCH: 130620.B

Start: 20-JUN-13 09:05
End: 20-JUN-13 16:03

Comments:

Standards: IS/SS-VW130617A ___ uL
STD-VW130617B ___ uL
_____ ___ uL
_____ ___ uL

Reviewed By: 6-24-13 Manual Integration: NA MI Review: WL

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS FBZ	CBZ	DCB	SURROGATES DFM	DCE	TOL	BFB	DILN	FLG	COMMENTS	pH
V5O4270	09:05	BFBV5	BFBV5		AQ									1		OK	
V5O4271	09:57	VSTD005V5	VSTD005V5		SL		105	103	104					1		OK	
V5O4272	10:23	VSTD020V5	VSTD020V5		SL		111	108	108					1		OK	
V5O4273	10:49	VSTD050V5	VSTD050V5		SL		100	100	100					1		OK	
V5O4274	14:20	VSTD100V5	VSTD100V5		SL		107	104	101					1		OK	
V5O4275	14:45	VSTD200V5	VSTD200V5		SL		107	109	112					1		OK	
V5O4276	16:03	VICV050V5	VICV050V5		SL		111	108	110					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

1 WL 6/24/13

Page 124 of 806

Logbook ID 90.0199-03/13

M0975

Spectrum Analytical, Inc. RI Division V5 Injection Log
Volatiles Laboratory

METHOD: 8260_L-5 ANALYST: WL
ICAL DATE: 6/20/13

BATCH: 130620A.B
Start: 20-JUN-13 15:11
End: 21-JUN-13 05:31

Comments:

Standards: IS/SS-VW130617A ___ uL
STD-VW130617B ___ uL
_____ ___ uL
_____ ___ uL

Reviewed By: [illegible] Manual Integration: NA MI Review: WL

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS FBZ	CBZ	DCB	SURROGATES DFM	DCE	TOL	BFB	DILN	FLG	COMMENTS	pH
V5O4278	15:11	BFBW5	BFBW5		SL									1		OK	
V5O4279	16:29	VSTD050W5	VSTD050W5		SL		100	100	100					1		OK	
V5O4280	16:55	LCS-72200	VLCSW5	72200	SL		98	100	101	99	103	102	104	1	ER	OK	
V5O4281	17:21	MB-72200	VBLKV5	72200	SL		97	95	86	99	93	102	98	1		not used	
V5O4282	17:47	MB-72200	VBLKW5	72200	SL		98	95	94	96	96	102	100	1		OK	
V5O4283	18:13	M0975-01A	A-1-3-061313	72200	SL	1	98	99	98	100	100	100	104	1		OK	
V5O4284	18:39	M0975-02A	A-2-2-061313	72200	SL	1	98	99	94	101	97	99	98	1		OK	
V5O4285	19:07	M0975-03A	A-3-1-061313	72200	SL	1	94	94	89	103	103	100	96	1		OK	
V5O4286	19:33	M0975-05A	B-1-4-061313	72200	SL	1	89	87	83	95	92	100	98	1		OK	
V5O4287	19:58	M0975-06A	B-2-1-061313	72200	SL	1	93	93	90	102	99	100	99	1		OK	
V5O4288	20:24	M0975-08A	C-1-2-061313	72200	SL	1	93	94	91	101	106	100	96	1		OK	
V5O4289	20:50	M0975-09A	C-2-3-061313	72200	SL	1	90	92	86	102	106	99	99	1		OK	
V5O4290	21:16	M0975-10A	C-3-2-061313	72200	SL	1	74	72	63	95	92	100	92	1		OK	
V5O4291	21:42	M0975-12A	D-1-1-061313	72200	SL	1	85	79	74	94	86*	101	93	1		OK	
V5O4292	22:08	M0975-13A	D-3-4-061313	72200	SL	1	89	88	85	98	97	101	92	1		OK	
V5O4293	22:34	M0975-15A	E-1-3-061313	72200	SL	1	87	88	79	95	96	99	94	1		OK	
V5O4294	23:00	M0975-16A	E-2-4-061313	72200	SL	1	89	89	85	99	102	100	96	1		OK	
V5O4295	23:26	M0975-17A	E-3-2-061313	72200	SL	1	90	89	87	99	102	100	102	1		OK	
V5O4296	23:52	M0967-01B	RS-BF-A79-06131	72200	SL	1	76	70	61	90	77*	105	88	1		OK	
V5O4297	00:18	M0967-02B	RS-BF-A81-06131	72200	SL	1	75	70	59	91	86*	102	86	1		OK	
V5O4298	00:44	M0996-06D	EP-206 (16-20)	72200	SL	1	71	64	55	89	73*	108	88	1		OK	
V5O4299	01:10	M0955-01A	WGL-SD-TB01-061	72200	SL	1	58	55	48*	94	85*	105	88	1		RRX	
V5O4300	01:36	M0955-08A	WGL-SD-TB02-061	72200	SL	1	72	71	65	96	93	103	92	1		OK	
V5O4301	02:02	M0955-02C	WGL-SD-SD01-061	72200	SL	1	68	67	60	99	98	100	91	1		OK	
V5O4302	02:28	M0955-04C	WGL-SD-SD06-061	72200	SL	1	82	80	73	95	96	100	93	1		OK	
V5O4303	02:54	M0955-05C	WGL-SD-SD07-061	72200	SL	1	72	70	57	98	104	101	88	1		OK	
V5O4304	04:12	M0871-07A	F9 week 3	72200	SL	1	63	60	52	92	79*	102	91	1	T	OK	
V5O4305	04:39	M0871-07B	F10 week 3	72200	SL	1	71	69	66	95	87*	103	94	1	T	OK	
V5O4306	05:05	M0875-07BMS		72200	SL	2	79	76	65	92	86*	104	93	1	T	RRX	
V5O4307	05:31	M0875-07BMSD		72200	SL	3	57	53	40*	88	83*	102	83*	1	T		

* - 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

WL 6/24/13

Page 125 of 806

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
6/18/13	M0986	AMEC	01-09, 15-20	VM	✓	M	R10	
	M0986		10-14			H		
	M0987		01-10, 14-17			M		
6/18/13	M0987	AMEC	11-13	VM		H	R10	
	M0959	Watermark	01-08			H	R10	
	M0967	SEVENSTM	01-02			F/M	R/F10	
	M0975	Watermark	08-11			M/F	R/F10	
	M0970	RIAL	01-03			A	R3	
	M0975	GZA	01-03, 05, 06 08-10, 12,13, 15-17			US	R8	
	M0976	GZA	01-05	VM		US	R8	
	M0991	CH2M	01-08	VEB		H	R10	
	M0992	Land	01	VEB		US	R3	
6/18/13	50102586	RIRC	01	VEB	✓	H	R10	
6/19/13	M0997	RIRC	01	VEB	✓	H	R10	

Logbook ID 90.0191-01/13

Reviewed By: VM 6/19/13

"Preservative Used" Key

UA = Unpreserved Aqueous; **H** = HCL; **A** = Air; **M** = MeOH; **E** = Encore

US = Unpreserved Soil; **N** = $NaHSO_4$; **F** = Freeze; **T** = Trace, HCL

* Semivolatile Organics *

REPORT NARRATIVE

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

Client : GZA GeoEnvironmental of NY Buffalo

Project: Former Signore Facility

Laboratory Workorder / SDG #: M0975

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

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.

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:_____7/1/2013_____

Data Flag/Qualifiers:

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 an 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 aldol condensation byproducts.

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.

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.: M0975 Mod. Ref No.: SDG No.: SM0975

Level: (LOW/MED) LOW

	CLIENT SAMPLE NO.	SDMC1 (NBZ) #	SDMC2 (FBP) #	SDMC3 (TPH) #	SDMC4 (PHL) #	SDMC5 (2FP) #	SDMC6 (TBP) #			TOT OUT
01	COMP-A-061313	69	61	77	76	80	73			0
02	COMP-B-061313	71	63	79	85	94	79			0
03	COMP-C-061313	74	68	81	80	92	76			0
04	COMP-D-061313	76	65	83	80	88	81			0
05	COMP-E-061313	67	61	75	74	81	74			0
06	LCS-72397	83	77	79	94	97	71			0
07	MB-72397	86	84	90	82	72	52			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

som13.06.03.A

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-72397

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72397 LCS Lot No.: A092773

Date Extracted: 06/24/2013 Date Analyzed (1): 06/26/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	3333.0000	0.0000	3057.3205	92		40 - 100
Bis(2-chloroethyl)ether	3333.0000	0.0000	2611.7285	78		40 - 105
2-Chlorophenol	3333.0000	0.0000	3375.2013	101		45 - 105
1,3-Dichlorobenzene	3333.0000	0.0000	2672.1834	80		40 - 100
1,4-Dichlorobenzene	3333.0000	0.0000	2694.5711	81		35 - 105
1,2-Dichlorobenzene	3333.0000	0.0000	2817.7905	85		45 - 95
2-Methylphenol	3333.0000	0.0000	3059.7366	92		40 - 105
2,2´-oxybis(1-Chloropropan	3333.0000	0.0000	2805.0636	84		20 - 115
4-Methylphenol	3333.0000	0.0000	2774.1833	83		40 - 105
N-Nitroso-di-n-propylamine	3333.0000	0.0000	2627.2657	79		40 - 115
Hexachloroethane	3333.0000	0.0000	2536.1600	76		35 - 110
Nitrobenzene	3333.0000	0.0000	2764.4139	83		40 - 115
Isophorone	3333.0000	0.0000	2771.1442	83		45 - 110
2-Nitrophenol	3333.0000	0.0000	2795.8169	84		40 - 110
2,4-Dimethylphenol	3333.0000	0.0000	3125.5362	94		30 - 105
2,4-Dichlorophenol	3333.0000	0.0000	3320.4687	100		45 - 110
1,2,4-Trichlorobenzene	3333.0000	0.0000	2721.0996	82		45 - 110
Naphthalene	3333.0000	0.0000	2737.7708	82		40 - 105
4-Chloroaniline	3333.0000	0.0000	2278.2318	68		10 - 100
Bis(2-chloroethoxy)methane	3333.0000	0.0000	2859.7807	86		45 - 110
Hexachlorobutadiene	3333.0000	0.0000	2808.7006	84		40 - 115
4-Chloro-3-methylphenol	3333.0000	0.0000	3073.1299	92		45 - 115
2-Methylnaphthalene	3333.0000	0.0000	2698.6062	81		45 - 105
Hexachlorocyclopentadiene	3333.0000	0.0000	2473.0729	74		8 - 148
2,4,6-Trichlorophenol	3333.0000	0.0000	2824.2674	85		45 - 110
2,4,5-Trichlorophenol	3333.0000	0.0000	2855.3304	86		50 - 110
2-Chloronaphthalene	3333.0000	0.0000	2645.0848	79		45 - 105
2-Nitroaniline	3333.0000	0.0000	2757.7039	83		45 - 120
Dimethylphthalate	3333.0000	0.0000	2814.2011	84		50 - 110
Acenaphthylene	3333.0000	0.0000	2674.5822	80		45 - 105
2,6-Dinitrotoluene	3333.0000	0.0000	2782.1864	83		50 - 110
3-Nitroaniline	3333.0000	0.0000	2551.1497	77		25 - 110
Acenaphthene	3333.0000	0.0000	2633.1056	79		45 - 110
2,4-Dinitrophenol	3333.0000	0.0000	3231.0829	97		15 - 130
4-Nitrophenol	3333.0000	0.0000	3029.6482	91		15 - 140
Dibenzofuran	3333.0000	0.0000	2774.8187	83		50 - 105
2,4-Dinitrotoluene	3333.0000	0.0000	2865.4190	86		50 - 115
Diethylphthalate	3333.0000	0.0000	2802.3053	84		50 - 115
4-Chlorophenyl-phenylether	3333.0000	0.0000	2639.5202	79		45 - 110
Fluorene	3333.0000	0.0000	2831.4714	85		50 - 110
4-Nitroaniline	3333.0000	0.0000	2788.9275	84		35 - 115
4,6-Dinitro-2-methylphenol	3333.0000	0.0000	2620.0921	79		30 - 135
N-Nitrosodiphenylamine	3333.0000	0.0000	2494.1217	75		50 - 115
4-Bromophenyl-phenylether	3333.0000	0.0000	2316.6363	70		45 - 115

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-72397

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72397 LCS Lot No.: A092773

Date Extracted: 06/24/2013 Date Analyzed (1): 06/26/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Hexachlorobenzene	3333.0000	0.0000	2407.4795	72		45 - 120
Pentachlorophenol	3333.0000	0.0000	2397.3127	72		25 - 120
Phenanthrene	3333.0000	0.0000	2647.8143	79		50 - 110
Anthracene	3333.0000	0.0000	2632.0092	79		55 - 105
Carbazole	3333.0000	0.0000	2885.6683	87		45 - 115
Di-n-butylphthalate	3333.0000	0.0000	2794.3948	84		55 - 110
Fluoranthene	3333.0000	0.0000	2895.2918	87		55 - 115
Pyrene	3333.0000	0.0000	2527.6775	76		45 - 125
Butylbenzylphthalate	3333.0000	0.0000	2425.1495	73		50 - 125
3,3´-Dichlorobenzidine	3333.0000	0.0000	2163.4303	65		10 - 130
Benzo(a)anthracene	3333.0000	0.0000	2386.0298	72		50 - 110
Chrysene	3333.0000	0.0000	2619.7129	79		55 - 110
Bis(2-ethylhexyl)phthalate	3333.0000	0.0000	2369.0080	71		45 - 125
Di-n-octylphthalate	3333.0000	0.0000	2622.8938	79		40 - 130
Benzo(b)fluoranthene	3333.0000	0.0000	2593.3932	78		45 - 115
Benzo(k)fluoranthene	3333.0000	0.0000	2839.6978	85		45 - 125
Benzo(a)pyrene	3333.0000	0.0000	2642.8698	79		50 - 110
Indeno(1,2,3-cd)pyrene	3333.0000	0.0000	2850.5273	86		40 - 120
Dibenzo(a,h)anthracene	3333.0000	0.0000	2478.2654	74		40 - 125
Benzo(g,h,i)perylene	3333.0000	0.0000	2598.1986	78		40 - 125

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

* Values outside of QC limits

Spike Recovery: 0 out of 64 outside limits

COMMENTS:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
MB-72397

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: S6B4744.D Lab Sample ID: MB-72397

Instrument ID: S6 Date Extracted: 06/24/2013

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/28/2013

Level: (LOW/MED) LOW Time Analyzed: 13:12

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	COMP-A-061313	M0975-04A	S6B4637.D	06/25/2013
02	COMP-B-061313	M0975-07A	S6B4638.D	06/25/2013
03	COMP-C-061313	M0975-11A	S6B4639.D	06/25/2013
04	COMP-D-061313	M0975-14A	S6B4640.D	06/25/2013
05	COMP-E-061313	M0975-18A	S6B4641.D	06/25/2013
06	LCS-72397	LCS-72397	S6B4676.D	06/26/2013

COMMENTS:

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

CLIENT SAMPLE NO.
DFTPP6w

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: S6B4570D.D DFTPP Injection Date: 06/21/2013

Instrument ID: S6 DFTPP Injection Time: 14:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	45.7
70	Less than 2.0% of mass 69	0.5 (1.1)1
127	10.0 - 80.0% of mass 198	40.5
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	7.9
275	10.0 - 60.0% of mass 198	31.5
365	Greater than 1.0% of mass 198	5.0
441	Present, but less than mass 443	6.7
442	50.0 - 100% of mass 198	82.0
443	15.0 - 24.0% of mass 442	17.1 (20.8)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	SSTD0256W	SSTD0256W	S6B4571A.D	06/21/2013	15:17
02	SSTD0056W	SSTD0056W	S6B4572.D	06/21/2013	15:48
03	SSTD0606W	SSTD0606W	S6B4573.D	06/21/2013	16:13
04	SSTD0106W	SSTD0106W	S6B4574.D	06/21/2013	16:38
05	SSTD0406W	SSTD0406W	S6B4575.D	06/21/2013	17:03
06	SSTD0806W	SSTD0806W	S6B4576.D	06/21/2013	17:28

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT

PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPINE (DFTPP)

CLIENT SAMPLE NO.

DFTPP6Y

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: S6B4630C.D DFTPP Injection Date: 06/25/2013

Instrument ID: S6 DFTPP Injection Time: 15:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.5 (1.1)1
69	Mass 69 relative abundance	44.7
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	10.0 - 80.0% of mass 198	40.5
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	8.5
275	10.0 - 60.0% of mass 198	31.4
365	Greater than 1.0% of mass 198	4.5
441	Present, but less than mass 443	9.4
442	50.0 - 100% of mass 198	88.5
443	15.0 - 24.0% of mass 442	18.4 (20.8)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	SSTD0256Y	SSTD0256Y	S6B4631D.D	06/25/2013	15:53
02	COMP-A-061313	M0975-04A	S6B4637.D	06/25/2013	18:41
03	COMP-B-061313	M0975-07A	S6B4638.D	06/25/2013	19:06
04	COMP-C-061313	M0975-11A	S6B4639.D	06/25/2013	19:32
05	COMP-D-061313	M0975-14A	S6B4640.D	06/25/2013	19:57
06	COMP-E-061313	M0975-18A	S6B4641.D	06/25/2013	20:22

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

CLIENT SAMPLE NO.
DFTPP6Z

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: S6B4660F.D DFTPP Injection Date: 06/26/2013

Instrument ID: S6 DFTPP Injection Time: 11:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.5
68	Less than 2.0% of mass 69	1.0 (1.9)1
69	Mass 69 relative abundance	53.1
70	Less than 2.0% of mass 69	0.8 (1.5)1
127	10.0 - 80.0% of mass 198	43.7
197	Less than 2.0% of mass 198	0.5
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	34.3
365	Greater than 1.0% of mass 198	5.8
441	Present, but less than mass 443	7.8
442	50.0 - 100% of mass 198	90.9
443	15.0 - 24.0% of mass 442	20.4 (22.4)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	SSTD0256Z	SSTD0256Z	S6B4661.D	06/26/2013	11:45
02	SSTD0806Z	SSTD0806Z	S6B4662.D	06/26/2013	13:00
03	SSTD0056Z	SSTD0056Z	S6B4663.D	06/26/2013	13:25
04	SSTD0606Z	SSTD0606Z	S6B4664.D	06/26/2013	13:51
05	SSTD0106Z	SSTD0106Z	S6B4665.D	06/26/2013	14:17
06	SSTD0406Z	SSTD0406Z	S6B4666.D	06/26/2013	14:43

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT

PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPINE (DFTPP)

CLIENT SAMPLE NO.

DFTPP6A

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: S6B4670I.D DFTPP Injection Date: 06/26/2013

Instrument ID: S6 DFTPP Injection Time: 17:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.9
70	Less than 2.0% of mass 69	0.6 (1.2)1
127	10.0 - 80.0% of mass 198	42.1
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	7.4
275	10.0 - 60.0% of mass 198	33.2
365	Greater than 1.0% of mass 198	5.1
441	Present, but less than mass 443	17.2
442	50.0 - 100% of mass 198	94.9
443	15.0 - 24.0% of mass 442	18.3 (19.2)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	SSTD0256A	SSTD0256A	S6B4671A.D	06/26/2013	18:26
02	LCS-72397	LCS-72397	S6B4676.D	06/26/2013	20:59

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT

PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPINE (DFTPP)

CLIENT SAMPLE NO.

DFTPP6B

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: S6B4710I.D DFTPP Injection Date: 06/27/2013

Instrument ID: S6 DFTPP Injection Time: 11:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.4
70	Less than 2.0% of mass 69	0.4 (0.8)1
127	10.0 - 80.0% of mass 198	51.7
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	7.5
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1.0% of mass 198	5.1
441	Present, but less than mass 443	13.8
442	50.0 - 100% of mass 198	95.5
443	15.0 - 24.0% of mass 442	22.2 (23.2)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	SSTD0256B	SSTD0256B	S6B4711B.D	06/27/2013	14:04
02	SSTD0806B	SSTD0806B	S6B4712.D	06/27/2013	14:29
03	SSTD0056B	SSTD0056B	S6B4713.D	06/27/2013	14:55
04	SSTD0606B	SSTD0606B	S6B4714.D	06/27/2013	15:20
05	SSTD0106B	SSTD0106B	S6B4715.D	06/27/2013	15:45
06	SSTD0406B	SSTD0406B	S6B4716.D	06/27/2013	16:11

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT

PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPINE (DFTPP)

CLIENT SAMPLE NO.

DFTPP6C

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: S6B4740D.D DFTPP Injection Date: 06/28/2013

Instrument ID: S6 DFTPP Injection Time: 9:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.0
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Mass 69 relative abundance	57.6
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	10.0 - 80.0% of mass 198	52.2
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	7.8
275	10.0 - 60.0% of mass 198	32.9
365	Greater than 1.0% of mass 198	4.8
441	Present, but less than mass 443	17.7
442	50.0 - 100% of mass 198	93.7
443	15.0 - 24.0% of mass 442	19.2 (20.5)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	SSTD0256C	SSTD0256C	S6B4741.D	06/28/2013	10:20
02	MB-72397	MB-72397	S6B4744.D	06/28/2013	13:12

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 06/21/2013 06/21/2013

EPA Sample No.(SSTD020##) SSTD0256Y Date Analyzed: 06/25/2013

Lab File ID (Standard): S6B4631D.D Time Analyzed: 15:53

Instrument ID: S6

		IS1 (DCB) AREA	#	IS1 (DCB) RT	#	IS2 (NPT) AREA	#	IS2 (NPT) RT	#	IS3 (ANT) AREA	#	IS3 (ANT) RT	#
	12 HOUR STD	190441		5.333		946542		6.396		903234		7.865	
	UPPER LIMIT	380882		5.833		1893084		6.896		1806468		8.365	
	LOWER LIMIT	95221		4.833		473271		5.896		451617		7.365	
	SAMPLE NO.												
01	COMP-A-061313	183722		5.333		763074		6.396		875796		7.859	
02	COMP-B-061313	174255		5.333		768552		6.396		932153		7.859	
03	COMP-C-061313	190222		5.333		807792		6.391		923287		7.854	
04	COMP-D-061313	189080		5.333		814746		6.391		974828		7.859	
05	COMP-E-061313	186641		5.333		811903		6.390		889898		7.859	

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.: M0975 Mod. Ref No.: SDG No.: SM0975

EPA Sample No.(SSTD020##) SSTD0256Y Date Analyzed: 06/25/2013

Lab File ID (Standard): S6B4631D.D Time Analyzed: 15:53

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	2415889		9.129		3841965		11.737		3901521		14.223	
	UPPER LIMIT	4831778		9.629		7683930		12.237		7803042		14.723	
	LOWER LIMIT	1207945		8.629		1920983		11.237		1950761		13.723	
	SAMPLE NO.												
01	COMP-A-061313	2528054		9.105		4138663		11.590		4396069		14.046	
02	COMP-B-061313	2784925		9.105		4640846		11.573		4751187		14.029	
03	COMP-C-061313	2675807		9.099		4320841		11.573		4611351		14.029	
04	COMP-D-061313	2756895		9.105		4539412		11.573		4726762		14.023	
05	COMP-E-061313	2547659		9.099		4218771		11.573		4398624		14.023	

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.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 06/26/2013 06/26/2013

EPA Sample No.(SSTD020##) SSTD0256A Date Analyzed: 06/26/2013

Lab File ID (Standard): S6B4671A.D Time Analyzed: 18:26

Instrument ID: S6

		IS1 (DCB) AREA	#	IS1 (DCB) RT	#	IS2 (NPT) AREA	#	IS2 (NPT) RT	#	IS3 (ANT) AREA	#	IS3 (ANT) RT	#
	12 HOUR STD	62236		5.308		306250		6.366		301166		7.835	
	UPPER LIMIT	124472		5.808		612500		6.866		602332		8.335	
	LOWER LIMIT	31118		4.808		153125		5.866		150583		7.335	
	SAMPLE NO.												
01	LCS-72397	36805		5.308		167522		6.366		192755		7.835	

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.: M0975 Mod. Ref No.: SDG No.: SM0975

EPA Sample No.(SSTD020##) SSTD0256A Date Analyzed: 06/26/2013

Lab File ID (Standard): S6B4671A.D Time Analyzed: 18:26

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	866802		9.08		1504579		11.548		1474612		13.975	
	UPPER LIMIT	1733604		9.58		3009158		12.048		2949224		14.475	
	LOWER LIMIT	433401		8.58		752290		11.048		737306		13.475	
	SAMPLE NO.												
01	LCS-72397	603340		9.074		1176157		11.536		1195024		13.957	

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.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 06/27/2013 06/27/2013

EPA Sample No.(SSTD020##) SSTD0256C Date Analyzed: 06/28/2013

Lab File ID (Standard): S6B4741.D Time Analyzed: 10:20

Instrument ID: S6

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	44175		5.238		190576		6.295		135160		7.764	
	UPPER LIMIT	88350		5.738		381152		6.795		270320		8.264	
	LOWER LIMIT	22088		4.738		95288		5.795		67580		7.264	
	SAMPLE NO.												
01	MB-72397	35647		5.238		150715		6.295		119955		7.758	

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.: M0975 Mod. Ref No.: SDG No.: SM0975

EPA Sample No.(SSTD020##) SSTD0256C Date Analyzed: 06/28/2013

Lab File ID (Standard): S6B4741.D Time Analyzed: 10:20

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	310573		9.004		433229		11.466		457759		13.816	
	UPPER LIMIT	621146		9.504		866458		11.966		915518		14.316	
	LOWER LIMIT	155287		8.504		216615		10.966		228880		13.316	
	SAMPLE NO.												
01	MB-72397	297230		9.004		469364		11.484		529888		13.834	

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.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-A-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-04A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B4637.D

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

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

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	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	850	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	850	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	850	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	850	U
100-02-7	4-Nitrophenol	850	U
132-64-9	Dibenzofuran	420	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-A-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-04A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B4637.D

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

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	850	U
534-52-1	4,6-Dinitro-2-methylphenol	850	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	850	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3´-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

Data File: \\avogadro\organics\S6.I\130625.B\S6B4637.d
Report Date: 26-Jun-2013 10:12

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130625.B\S6B4637.d
Lab Smp Id: M0975-04A Client Smp ID: COMP-A-061313
Inj Date : 25-JUN-2013 18:41
Operator : PK   SRC: LIMS Inst ID: S6.i
Smp Info : M0975-04A,,72397
Misc Info :
Comment   :
Method   : \\avogadro\organics\S6.I\130625.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 10:11 S6.i Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.14
Processing Host: TARGET113

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

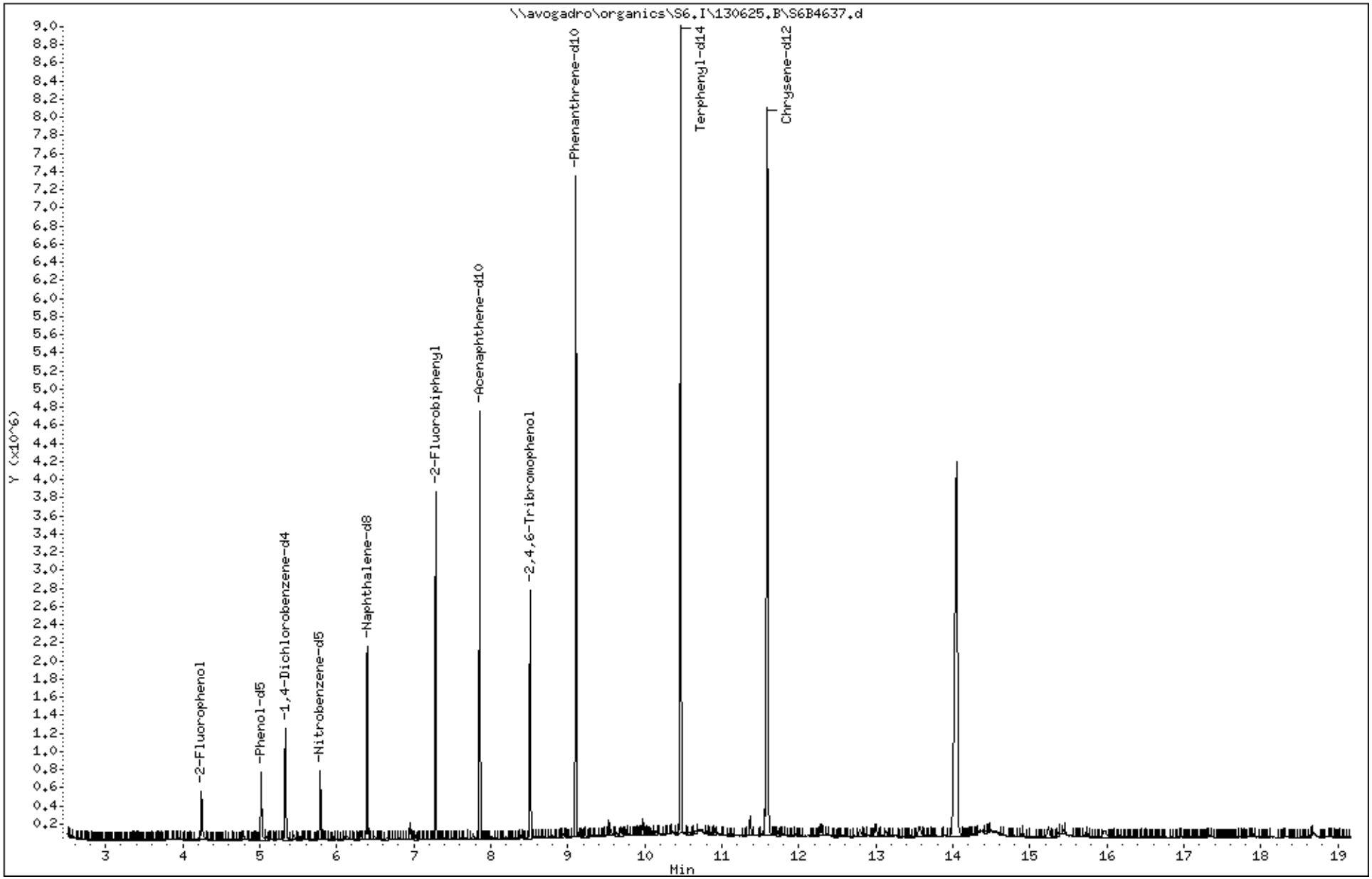
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	4.245	4.240	(0.796)	148920	39.9300	2600(H)
$	5 Phenol-d5	99	5.021	5.021	(0.942)	207379	37.8678	2500
*	12 1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	183722	40.0000	
$	22 Nitrobenzene-d5	82	5.791	5.791	(0.905)	228543	34.6934	2300
*	31 Naphthalene-d8	136	6.396	6.396	(1.000)	763074	40.0000	
$	41 2-Fluorobiphenyl	172	7.283	7.289	(0.927)	877864	30.6348	2000
*	48 Acenaphthene-d10	164	7.859	7.865	(1.000)	875796	40.0000	
$	60 2,4,6-Tribromophenol	330	8.517	8.523	(0.931)	295262	36.5330	2400(H)
*	64 Phenanthrene-d10	188	9.104	9.128	(1.000)	2528054	40.0000	(H)
$	72 Terphenyl-d14	244	10.468	10.562	(0.892)	2583416	38.7434	2600(H)
*	76 Chrysene-d12	240	11.590	11.737	(1.000)	4138663	40.0000	(H)
*	83 Perylene-d12	264	14.046	14.222	(1.000)	4396069	40.0000	(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\S6.I\130625.B\S6B4637.d
Date : 25-JUN-2013 18:41
Client ID: COMP-A-061313
Instrument: S6.i
Sample Info: M0975-04A,,72397
Volume Injected (uL): 1.0
Operator: PK SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-B-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-07A

Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B4638.D

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

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

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	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	820	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	820	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	820	U
100-02-7	4-Nitrophenol	820	U
132-64-9	Dibenzofuran	410	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-B-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-07A

Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B4638.D

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

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	820	U
534-52-1	4,6-Dinitro-2-methylphenol	820	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	820	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3´-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

Data File: \\avogadro\organics\S6.I\130625.B\S6B4638.d
Report Date: 26-Jun-2013 10:12

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130625.B\S6B4638.d
Lab Smp Id: M0975-07A Client Smp ID: COMP-B-061313
Inj Date : 25-JUN-2013 19:06
Operator : PK   SRC: LIMS Inst ID: S6.i
Smp Info : M0975-07A,,72397
Misc Info :
Comment   :
Method   : \\avogadro\organics\S6.I\130625.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 10:11 S6.i Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.14
Processing Host: TARGET113

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

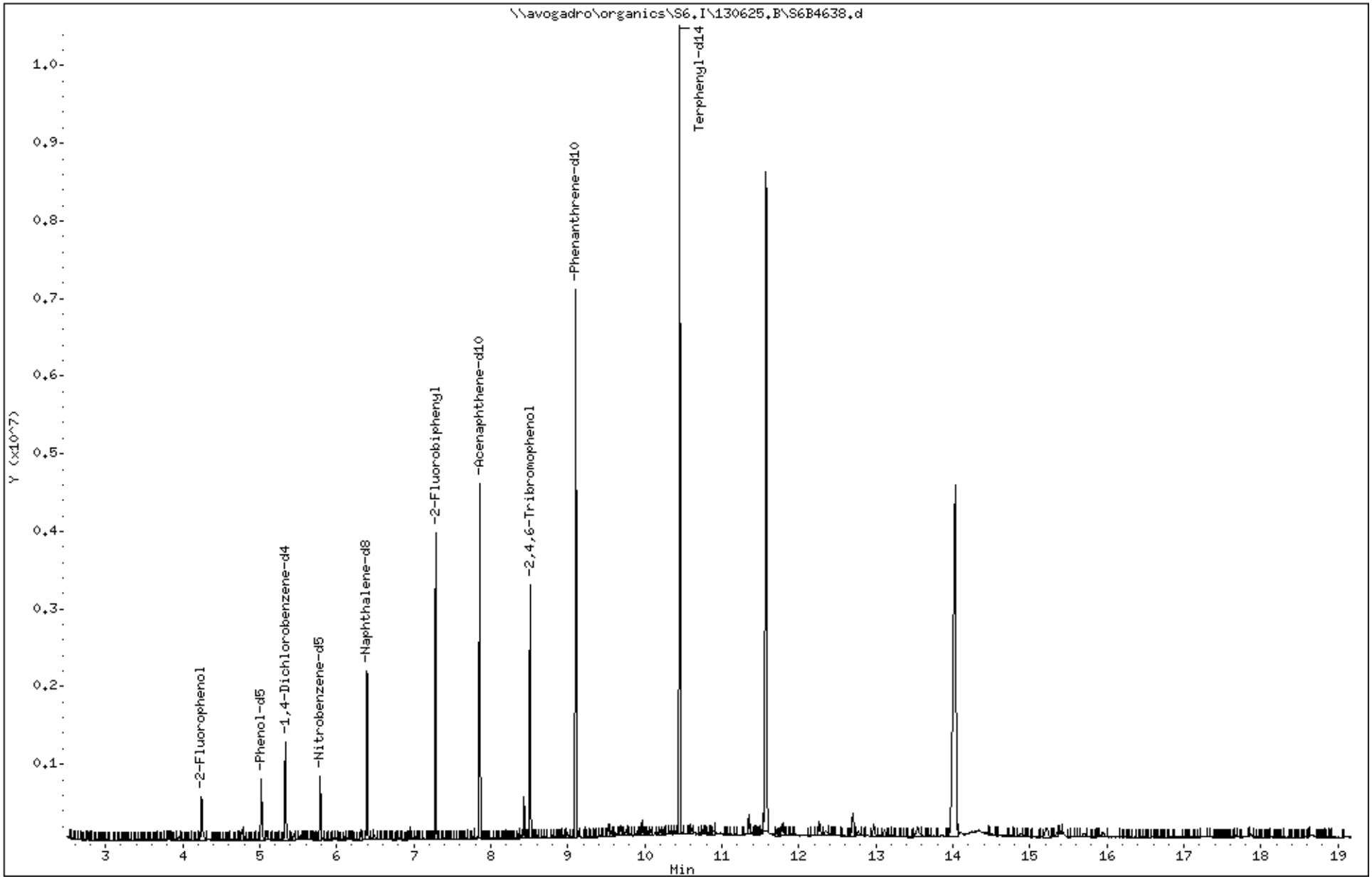
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.400	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)	
$	3 2-Fluorophenol	112	4.251	4.240	(0.797)	167101	47.2391	3100	
$	5 Phenol-d5	99	5.021	5.021	(0.942)	220418	42.4354	2800	
*	12 1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	174255	40.0000		
$	22 Nitrobenzene-d5	82	5.791	5.791	(0.905)	235291	35.4632	2300	
*	31 Naphthalene-d8	136	6.396	6.396	(1.000)	768552	40.0000		
$	41 2-Fluorobiphenyl	172	7.283	7.289	(0.927)	954223	31.2862	2000	
*	48 Acenaphthene-d10	164	7.859	7.865	(1.000)	932153	40.0000		
$	60 2,4,6-Tribromophenol	330	8.511	8.523	(0.931)	350188	39.3326	2600	
*	64 Phenanthrene-d10	188	9.104	9.128	(1.000)	2784925	40.0000		(H)
$	72 Terphenyl-d14	244	10.456	10.562	(0.890)	2939748	39.3166	2600	(H)
*	76 Chrysene-d12	240	11.572	11.737	(1.000)	4640846	40.0000		(H)
*	83 Perylene-d12	264	14.028	14.222	(1.000)	4751187	40.0000		(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\S6.I\130625.B\S6B4638.d
Date : 25-JUN-2013 19:06
Client ID: COMP-B-061313
Instrument: S6.i
Sample Info: M0975-07A,,72397
Volume Injected (uL): 1.0
Operator: PK SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-C-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-11A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B4639.D

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

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	390	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-C-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-11A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B4639.D

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

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

Data File: \\avogadro\organics\S6.I\130625.B\S6B4639.d
Report Date: 26-Jun-2013 10:12

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130625.B\S6B4639.d
Lab Smp Id: M0975-11A Client Smp ID: COMP-C-061313
Inj Date : 25-JUN-2013 19:32
Operator : PK   SRC: LIMS Inst ID: S6.i
Smp Info : M0975-11A,,72397
Misc Info :
Comment   :
Method   : \\avogadro\organics\S6.I\130625.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 10:11 S6.i Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.14
Processing Host: TARGET113

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

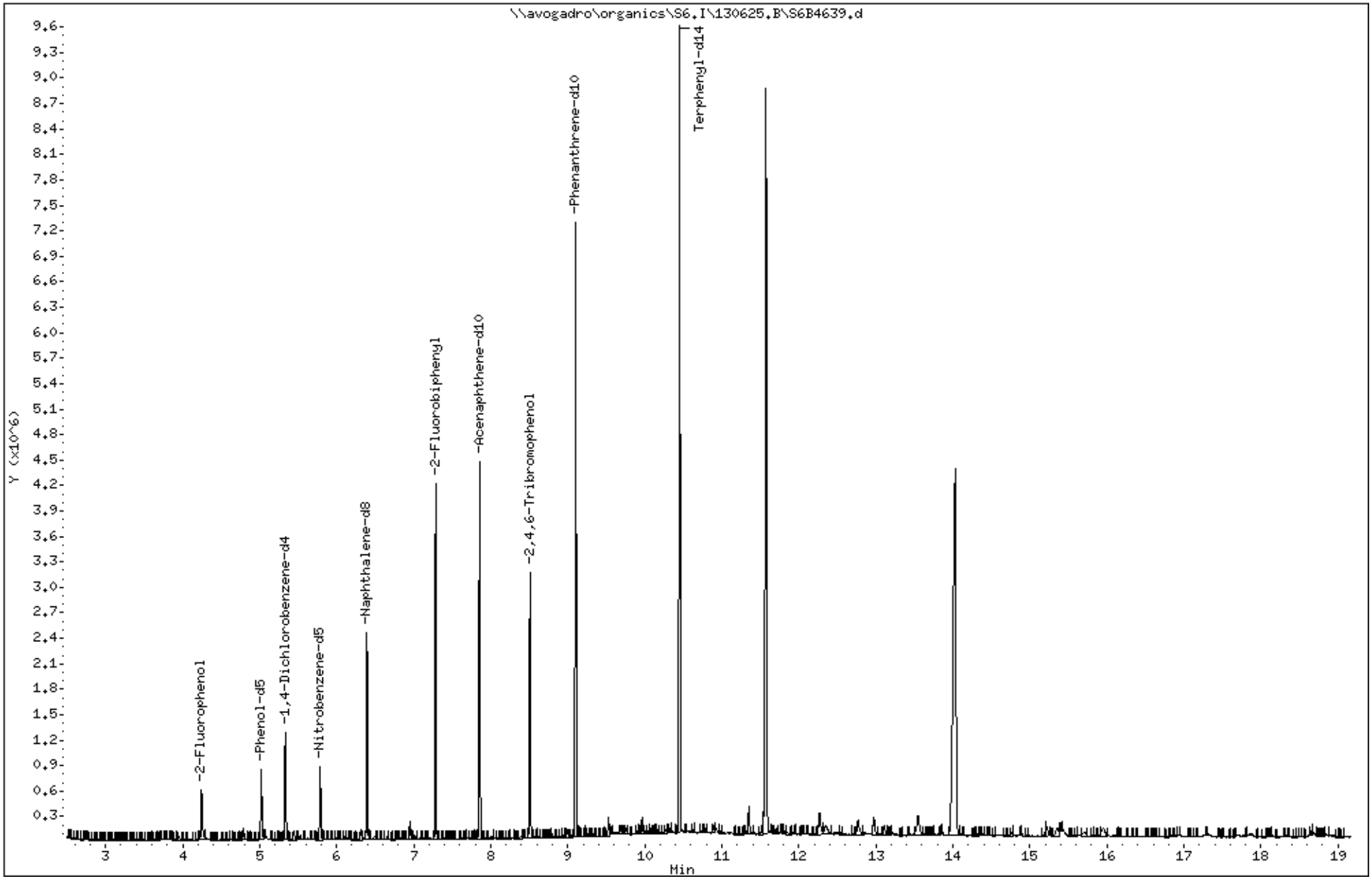
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.200	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)	
$	3 2-Fluorophenol	112	4.245	4.240	(0.796)	177559	45.9822	3000	
$	5 Phenol-d5	99	5.021	5.021	(0.942)	227860	40.1859	2600	
*	12 1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	190222	40.0000		
$	22 Nitrobenzene-d5	82	5.791	5.791	(0.906)	256536	36.7871	2400	
*	31 Naphthalene-d8	136	6.390	6.396	(1.000)	807792	40.0000		
$	41 2-Fluorobiphenyl	172	7.283	7.289	(0.927)	1026763	33.9879	2200	
*	48 Acenaphthene-d10	164	7.853	7.865	(1.000)	923287	40.0000		
$	60 2,4,6-Tribromophenol	330	8.511	8.523	(0.931)	324330	37.9138	2500	
*	64 Phenanthrene-d10	188	9.099	9.128	(1.000)	2675807	40.0000		(H)
$	72 Terphenyl-d14	244	10.450	10.562	(0.886)	2827945	40.6225	2700	(H)
*	76 Chrysene-d12	240	11.572	11.737	(1.000)	4320841	40.0000		(H)
*	83 Perylene-d12	264	14.028	14.222	(1.000)	4611351	40.0000		(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\S6.I\130625.B\S6B4639.d
Date : 25-JUN-2013 19:32
Client ID: COMP-C-061313
Instrument: S6.i
Sample Info: M0975-11A,,72397
Volume Injected (uL): 1.0
Operator: PK SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-D-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-14A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B4640.D

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

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

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	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	840	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	840	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	840	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	840	U
100-02-7	4-Nitrophenol	840	U
132-64-9	Dibenzofuran	410	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-D-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-14A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B4640.D

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

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	840	U
534-52-1	4,6-Dinitro-2-methylphenol	840	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	840	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3´-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

Data File: \\avogadro\organics\S6.I\130625.B\S6B4640.d
Report Date: 26-Jun-2013 10:12

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130625.B\S6B4640.d
Lab Smp Id: M0975-14A Client Smp ID: COMP-D-061313
Inj Date : 25-JUN-2013 19:57
Operator : PK   SRC: LIMS Inst ID: S6.i
Smp Info : M0975-14A,,72397
Misc Info :
Comment   :
Method   : \\avogadro\organics\S6.I\130625.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 10:11 S6.i Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.14
Processing Host: TARGET113

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

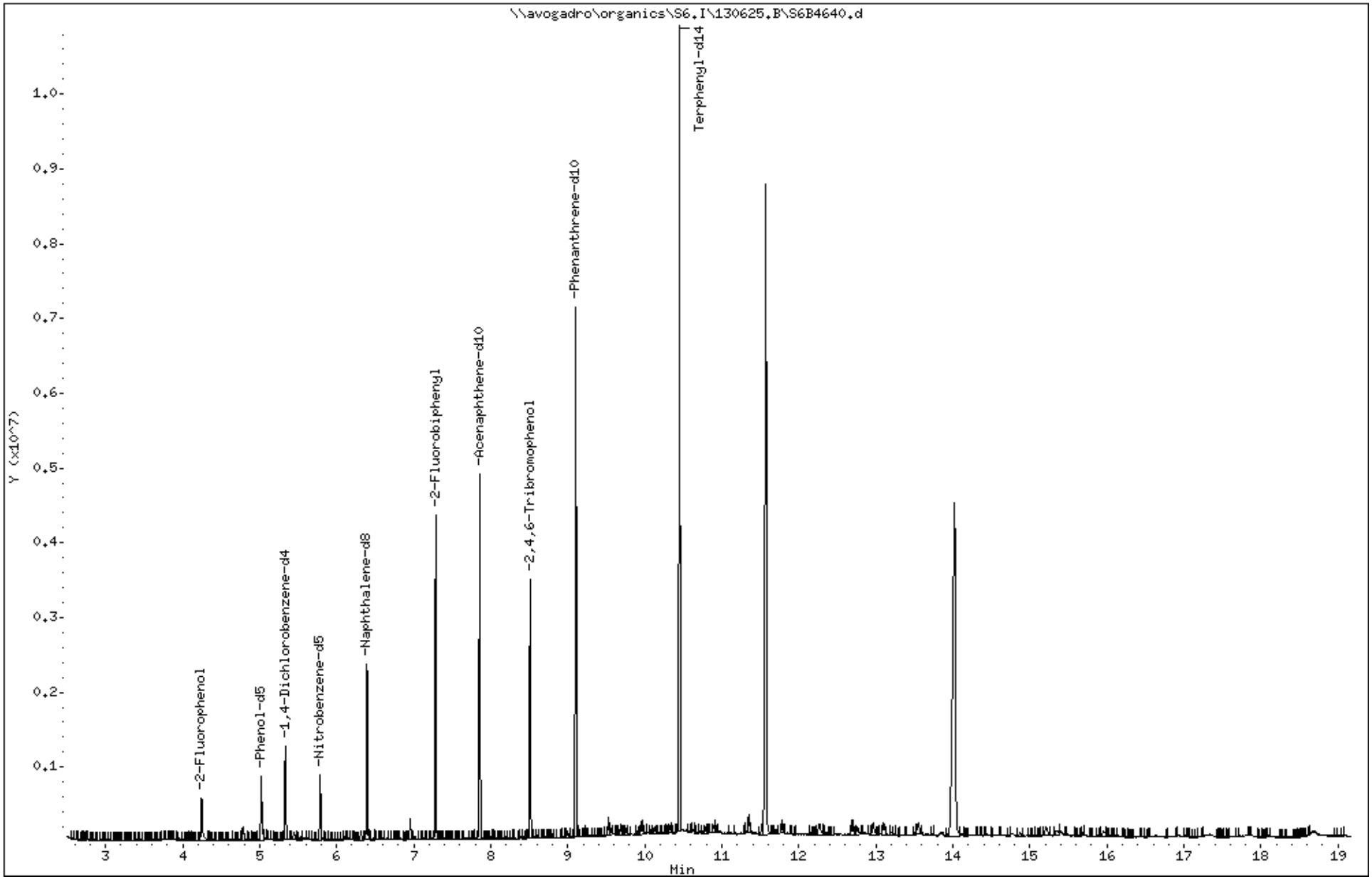
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.200	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)	
$	3 2-Fluorophenol	112	4.251	4.240	(0.797)	168265	43.8385	2900	
$	5 Phenol-d5	99	5.021	5.021	(0.942)	225731	40.0509	2600	
*	12 1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	189080	40.0000		
$	22 Nitrobenzene-d5	82	5.791	5.791	(0.906)	268452	38.1672	2500	
*	31 Naphthalene-d8	136	6.390	6.396	(1.000)	814746	40.0000		
$	41 2-Fluorobiphenyl	172	7.283	7.289	(0.927)	1043243	32.7075	2200	
*	48 Acenaphthene-d10	164	7.859	7.865	(1.000)	974828	40.0000		
$	60 2,4,6-Tribromophenol	330	8.511	8.523	(0.931)	355951	40.3863	2600	
*	64 Phenanthrene-d10	188	9.105	9.128	(1.000)	2756895	40.0000		(H)
$	72 Terphenyl-d14	244	10.450	10.562	(0.892)	3047191	41.6643	2700	(H)
*	76 Chrysene-d12	240	11.572	11.737	(1.000)	4539412	40.0000		(H)
*	83 Perylene-d12	264	14.022	14.222	(1.000)	4726762	40.0000		(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\S6.I\130625.B\S6B4640.d
Date : 25-JUN-2013 19:57
Client ID: COMP-D-061313
Instrument: S6.i
Sample Info: M0975-14A,,72397
Volume Injected (uL): 1.0
Operator: PK SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-E-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-18A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B4641.D

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

% Moisture: 16 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

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	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

COMP-E-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-18A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B4641.D

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

% Moisture: 16 Decanted: (Y/N) N Date Received: 06/14/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2013

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

Data File: \\avogadro\organics\S6.I\130625.B\S6B4641.d
Report Date: 26-Jun-2013 10:12

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130625.B\S6B4641.d
Lab Smp Id: M0975-18A Client Smp ID: COMP-E-061313
Inj Date : 25-JUN-2013 20:22
Operator : PK   SRC: LIMS Inst ID: S6.i
Smp Info : M0975-18A,,72397
Misc Info :
Comment   :
Method   : \\avogadro\organics\S6.I\130625.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 10:11 S6.i Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.14
Processing Host: TARGET113

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M)) * CpndVariabl

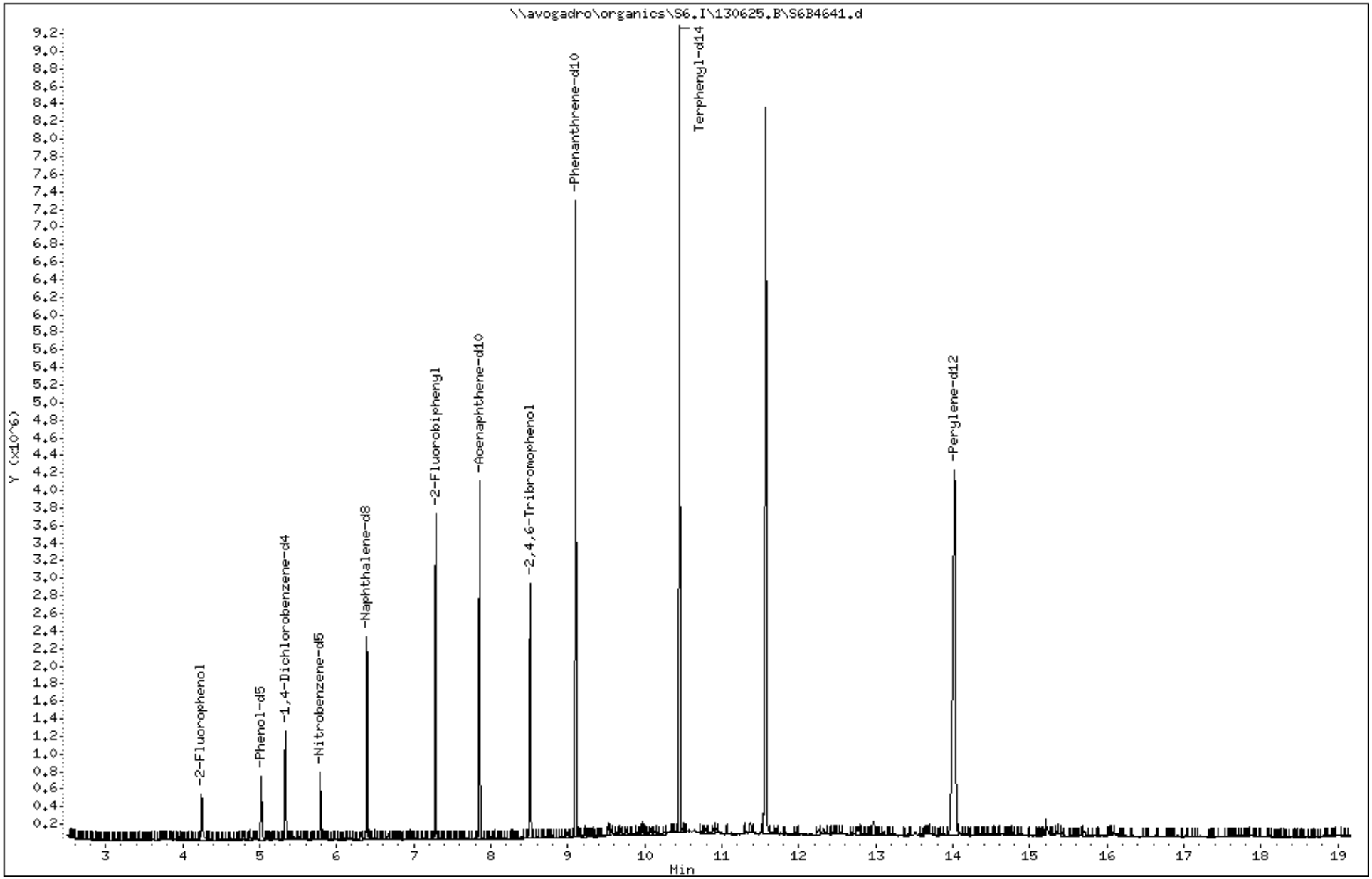
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.200	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	4.245	4.240	(0.796)	153034	40.3914	2600
$	5 Phenol-d5	99	5.021	5.021	(0.942)	205019	36.8514	2400
*	12 1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	186641	40.0000	
$	22 Nitrobenzene-d5	82	5.791	5.791	(0.906)	235366	33.5804	2200
*	31 Naphthalene-d8	136	6.390	6.396	(1.000)	811903	40.0000	
$	41 2-Fluorobiphenyl	172	7.283	7.289	(0.927)	891436	30.6154	2000
*	48 Acenaphthene-d10	164	7.859	7.865	(1.000)	889898	40.0000	
$	60 2,4,6-Tribromophenol	330	8.511	8.523	(0.931)	300886	36.9424	2400
*	64 Phenanthrene-d10	188	9.098	9.128	(1.000)	2547659	40.0000	(H)
$	72 Terphenyl-d14	244	10.450	10.562	(0.888)	2550974	37.5304	2500(H)
*	76 Chrysene-d12	240	11.572	11.737	(1.000)	4218771	40.0000	(H)
*	83 Perylene-d12	264	14.022	14.222	(1.000)	4398624	40.0000	(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\S6.I\130625.B\S6B4641.d
Date : 25-JUN-2013 20:22
Client ID: COMP-E-061313
Instrument: S6.i
Sample Info: M0975-18A,,72397
Volume Injected (uL): 1.0
Operator: PK SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



6 - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/21/2013 06/21/2013

Calibration Times: 15:17 17:28

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4572.D RRF010 = S6B4574.D RRF025 = S6B4571A.D RRF040 = S6B4575.D RRF060 = S6B4573.D
RRF080 = S6B4576.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Phenol	1.089	1.199	1.278	1.169	1.288	1.330					1.226	7.3
Bis(2-chloroethyl)ether	0.528	0.416	0.479	0.445	0.417	0.430					0.453	9.7
2-Chlorophenol	0.949	1.074	1.146	1.067	1.076	1.050					1.060	6.0
1,3-Dichlorobenzene	1.268	1.239	1.305	1.261	1.242	1.260					1.263	1.9
1,4-Dichlorobenzene	1.266	1.289	1.414	1.278	1.271	1.301					1.303	4.3
1,2-Dichlorobenzene	1.296	1.148	1.381	1.258	1.262	1.248					1.265	6.0
2-Methylphenol	0.934	0.984	1.075	0.994	1.030	1.008					1.004	4.7
2,2´-oxybis(1-Chloropropane)	0.404	0.392	0.380	0.349	0.352	0.330					0.368	7.8
4-Methylphenol	0.992	1.168	1.240	1.172	1.250	1.329					1.192	9.6
N-Nitroso-di-n-propylamine	0.803	0.769	0.905	0.857	0.883	0.916					0.856	6.8
Hexachloroethane	0.447	0.481	0.523	0.502	0.493	0.516					0.494	5.5
Nitrobenzene	0.341	0.330	0.362	0.308	0.300	0.287					0.321	8.7
Isophorone	0.557	0.568	0.579	0.493	0.483	0.438					0.519	10.9
2-Nitrophenol	0.185	0.195	0.176	0.172	0.158	0.151					0.173	9.3
2,4-Dimethylphenol	0.271	0.292	0.366	0.333	0.325	0.301					0.315	10.7
2,4-Dichlorophenol	0.341	0.352	0.397	0.336	0.330	0.318					0.346	8.0
1,2,4-Trichlorobenzene	0.444	0.455	0.467	0.429	0.408	0.381					0.431	7.4
Naphthalene	0.885	0.877	0.946	0.864	0.835	0.846					0.875	4.5
4-Chloroaniline	0.393	0.375	0.396	0.362	0.334	0.312					0.362	9.3
Bis(2-chloroethoxy)methane	0.255	0.269	0.279	0.253	0.248	0.230					0.256	6.7
Hexachlorobutadiene	0.337	0.368	0.345	0.317	0.301	0.284					0.325	9.5
4-Chloro-3-methylphenol	0.310	0.343	0.351	0.308	0.293	0.270					0.312	9.7
2-Methylnaphthalene	0.768	0.814	0.798	0.713	0.683	0.661					0.740	8.5
Hexachlorocyclopentadiene	0.346	0.398	0.485	0.351	0.439	0.466					0.414	14.2
2,4,6-Trichlorophenol	0.402	0.452	0.514	0.425	0.439	0.439					0.445	8.5
2,4,5-Trichlorophenol		0.476	0.551	0.457	0.481	0.492					0.491	7.3
2-Chloronaphthalene	0.914	0.893	1.027	0.861	0.933	0.968					0.933	6.3

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.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/21/2013 06/21/2013

Calibration Times: 15:17 17:28

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4572.D RRF010 = S6B4574.D RRF025 = S6B4571A.D RRF040 = S6B4575.D RRF060 = S6B4573.D
RRF080 = S6B4576.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
2-Nitroaniline		0.232	0.284	0.227	0.249	0.236					0.245	9.3
Dimethylphthalate	1.226	1.297	1.502	1.249	1.330	1.316					1.320	7.4
Acenaphthylene	1.358	1.467	1.736	1.461	1.531	1.631					1.531	8.8
2,6-Dinitrotoluene	0.290	0.303	0.362	0.278	0.296	0.297					0.304	9.7
3-Nitroaniline		0.249	0.273	0.232	0.242	0.237					0.246	6.4
Acenaphthene	0.900	1.003	1.192	1.002	1.086	1.112					1.049	9.7
2,4-Dinitrophenol		0.238	0.298	0.258	0.287	0.285					0.273	9.0
4-Nitrophenol		0.320	0.400	0.312	0.335	0.327					0.339	10.4
Dibenzofuran	1.525	1.612	1.844	1.554	1.629	1.678					1.640	6.9
2,4-Dinitrotoluene	0.433	0.423	0.501	0.409	0.427	0.428					0.437	7.5
Diethylphthalate	1.130	1.188	1.434	1.159	1.258	1.279					1.241	8.9
4-Chlorophenyl-phenylether	0.870	0.866	1.058	0.873	0.956	0.967					0.932	8.2
Fluorene	1.245	1.352	1.593	1.363	1.483	1.526					1.427	9.1
4-Nitroaniline		0.313	0.340	0.284	0.293	0.279					0.302	8.3
4,6-Dinitro-2-methylphenol		0.127	0.155	0.142	0.139	0.139					0.140	7.3
N-Nitrosodiphenylamine	0.409	0.470	0.536	0.456	0.475	0.494					0.473	8.8
4-Bromophenyl-phenylether	0.217	0.237	0.272	0.227	0.235	0.239					0.238	7.9
Hexachlorobenzene	0.241	0.253	0.288	0.246	0.254	0.255					0.256	6.5
Pentachlorophenol		0.199	0.232	0.189	0.196	0.203					0.204	8.1
Phenanthrene	0.825	0.874	1.021	0.875	0.885	0.929					0.902	7.5
Anthracene	0.805	0.852	1.050	0.875	0.933	0.955					0.912	9.5
Carbazole	0.722	0.803	0.933	0.773	0.822	0.821					0.812	8.6
Di-n-butylphthalate	0.765	0.816	0.967	0.828	0.867	0.916					0.860	8.5
Fluoranthene	1.202	1.269	1.482	1.244	1.303	1.311					1.302	7.4
Pyrene	0.745	0.806	0.923	0.766	0.786	0.792					0.803	7.8
Butylbenzylphthalate	0.233	0.260	0.296	0.247	0.256	0.265					0.260	8.1
3,3´-Dichlorobenzidine	0.333	0.374	0.429	0.347	0.365	0.355					0.367	9.1

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.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/21/2013 06/21/2013

Calibration Times: 15:17 17:28

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4572.D RRF010 = S6B4574.D RRF025 = S6B4571A.D RRF040 = S6B4575.D RRF060 = S6B4573.D
RRF080 = S6B4576.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Benzo(a)anthracene	0.957	0.998	1.135	0.956	0.950	0.946					0.990	7.4
Chrysene	0.832	0.883	1.004	0.837	0.841	0.832					0.871	7.8
Bis(2-ethylhexyl)phthalate	0.331	0.374	0.423	0.372	0.396	0.440					0.389	10.1
Di-n-octylphthalate	0.566	0.628	0.691	0.621	0.632	0.660					0.633	6.6
Benzo(b)fluoranthene	0.897	0.996	1.110	0.969	0.996	1.032					1.000	7.0
Benzo(k)fluoranthene	0.976	0.960	1.124	0.956	0.947	0.957					0.987	6.9
Benzo(a)pyrene	0.847	0.952	1.080	0.923	0.926	0.939					0.944	8.0
Indeno(1,2,3-cd)pyrene	0.877	0.992	1.115	0.981	1.171	1.190					1.054	11.7
Dibenzo(a,h)anthracene	0.877	0.979	1.105	0.943	0.944	0.975					0.970	7.8
Benzo(g,h,i)perylene	0.925	1.038	1.135	0.949	0.973	0.968					0.998	7.7

6 - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/21/2013 06/21/2013

Calibration Times: 15:17 17:28

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4572.D RRF010 = S6B4574.D RRF025 = S6B4571A.D RRF040 = S6B4575.D RRF060 = S6B4573.D RRF080 = S6B4576.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Nitrobenzene-d5	0.371	0.371	0.374	0.338	0.325	0.293					0.345	9.5
2-Fluorobiphenyl	1.210	1.269	1.474	1.218	1.327	1.355					1.309	7.6
Terphenyl-d14	0.611	0.628	0.744	0.621	0.631	0.632					0.644	7.7
Phenol-d5	1.205	1.149	1.265	1.155	1.200	1.181					1.192	3.5
2-Fluorophenol	0.737	0.769	0.890	0.784	0.848	0.843					0.812	7.1
2,4,6-Tribromophenol	0.106	0.126	0.154	0.123	0.130	0.129					0.128	11.9

6 - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/26/2013 06/26/2013

Calibration Times: 11:45 14:43

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4663.D RRF010 = S6B4665.D RRF025 = S6B4661.D RRF040 = S6B4666.D RRF060 = S6B4664.D
RRF080 = S6B4662.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Phenol	1.000	1.237	1.465	1.209	1.324	1.322					1.260	12.3
Bis(2-chloroethyl)ether	0.396	0.383	0.452	0.374	0.416	0.385					0.401	7.1
2-Chlorophenol	1.047	1.019	1.082	1.007	1.069	1.055					1.046	2.8
1,3-Dichlorobenzene	1.260	1.197	1.312	1.157	1.195	1.206					1.221	4.5
1,4-Dichlorobenzene	1.215	1.299	1.387	1.264	1.285	1.304					1.292	4.4
1,2-Dichlorobenzene	1.235	1.334	1.311	1.154	1.215	1.212					1.243	5.4
2-Methylphenol	1.041	0.970	1.096	0.977	1.016	1.066					1.028	4.8
2,2´-oxybis(1-Chloropropane)	0.356	0.371	0.361	0.320	0.321	0.334					0.344	6.3
4-Methylphenol	1.099	1.153	1.347	1.214	1.381	1.432					1.271	10.6
N-Nitroso-di-n-propylamine	0.850	0.780	0.847	0.729	0.836	0.872					0.819	6.6
Hexachloroethane	0.496	0.556	0.534	0.494	0.504	0.511					0.516	4.8
Nitrobenzene	0.371	0.322	0.338	0.304	0.289	0.278					0.317	10.8
Isophorone	0.611	0.540	0.598	0.515	0.466	0.443					0.529	12.9
2-Nitrophenol	0.210	0.185	0.193	0.179	0.164	0.156					0.181	10.9
2,4-Dimethylphenol	0.265	0.292	0.359	0.333	0.311	0.312					0.312	10.4
2,4-Dichlorophenol	0.347	0.378	0.387	0.348	0.334	0.327					0.353	6.7
1,2,4-Trichlorobenzene	0.463	0.450	0.477	0.404	0.397	0.382					0.429	9.1
Naphthalene	0.911	0.857	0.960	0.848	0.844	0.835					0.876	5.6
4-Chloroaniline	0.397	0.381	0.404	0.357	0.325	0.318					0.364	10.0
Bis(2-chloroethoxy)methane	0.273	0.265	0.297	0.246	0.233	0.228					0.257	10.3
Hexachlorobutadiene	0.368	0.334	0.360	0.318	0.300	0.287					0.328	9.8
4-Chloro-3-methylphenol	0.371	0.344	0.365	0.320	0.305	0.290					0.332	9.8
2-Methylnaphthalene	0.803	0.767	0.837	0.709	0.696	0.677					0.748	8.5
Hexachlorocyclopentadiene	0.298	0.330	0.434	0.292	0.391	0.395					0.357	16.3
2,4,6-Trichlorophenol	0.431	0.438	0.517	0.438	0.461	0.465					0.458	6.9
2,4,5-Trichlorophenol		0.489	0.559	0.470	0.483	0.497					0.500	6.9
2-Chloronaphthalene	0.831	0.884	1.057	0.880	0.910	0.940					0.917	8.5

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.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/26/2013 06/26/2013

Calibration Times: 11:45 14:43

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4663.D RRF010 = S6B4665.D RRF025 = S6B4661.D RRF040 = S6B4666.D RRF060 = S6B4664.D
RRF080 = S6B4662.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
2-Nitroaniline		0.230	0.275	0.230	0.238	0.238					0.242	7.8
Dimethylphthalate	1.286	1.335	1.546	1.288	1.317	1.331					1.351	7.3
Acenaphthylene	1.309	1.448	1.738	1.461	1.530	1.595					1.513	9.6
2,6-Dinitrotoluene	0.281	0.301	0.363	0.302	0.301	0.324					0.312	9.1
3-Nitroaniline		0.254	0.284	0.240	0.249	0.255					0.256	6.5
Acenaphthene	0.947	1.018	1.189	1.014	1.068	1.111					1.058	8.0
2,4-Dinitrophenol		0.193	0.238	0.258	0.257	0.273					0.244	12.8
4-Nitrophenol		0.361	0.395	0.333	0.337	0.355					0.356	6.9
Dibenzofuran	1.546	1.590	1.860	1.542	1.604	1.666					1.635	7.3
2,4-Dinitrotoluene	0.432	0.439	0.509	0.436	0.435	0.473					0.454	6.8
Diethylphthalate	1.257	1.299	1.492	1.235	1.292	1.323					1.316	7.0
4-Chlorophenyl-phenylether	0.910	0.917	1.092	0.913	0.950	0.974					0.959	7.3
Fluorene	1.288	1.389	1.621	1.434	1.457	1.507					1.449	7.7
4-Nitroaniline		0.307	0.340	0.303	0.264	0.281					0.299	9.6
4,6-Dinitro-2-methylphenol		0.128	0.141	0.139	0.141	0.142					0.138	4.1
N-Nitrosodiphenylamine	0.440	0.484	0.546	0.465	0.491	0.489					0.486	7.3
4-Bromophenyl-phenylether	0.220	0.245	0.275	0.227	0.248	0.243					0.243	7.9
Hexachlorobenzene	0.251	0.262	0.293	0.257	0.260	0.264					0.264	5.6
Pentachlorophenol		0.196	0.217	0.196	0.209	0.209					0.205	4.4
Phenanthrene	0.850	0.871	0.995	0.865	0.879	0.855					0.886	6.1
Anthracene	0.846	0.877	1.045	0.876	0.903	0.884					0.905	7.8
Carbazole	0.758	0.815	0.876	0.732	0.736	0.710					0.771	8.1
Di-n-butylphthalate	0.836	0.848	0.990	0.851	0.886	0.865					0.879	6.5
Fluoranthene	1.230	1.300	1.451	1.260	1.248	1.200					1.281	7.0
Pyrene	0.772	0.812	0.943	0.732	0.743	0.683					0.781	11.5
Butylbenzylphthalate	0.262	0.281	0.329	0.265	0.286	0.276					0.283	8.6
3,3´-Dichlorobenzidine	0.380	0.399	0.448	0.356	0.366	0.349					0.383	9.5

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.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/26/2013 06/26/2013

Calibration Times: 11:45 14:43

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4663.D RRF010 = S6B4665.D RRF025 = S6B4661.D RRF040 = S6B4666.D RRF060 = S6B4664.D
RRF080 = S6B4662.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Benzo(a)anthracene	1.026	1.066	1.209	1.000	1.014	0.995					1.052	7.7
Chrysene	0.866	0.913	1.026	0.817	0.818	0.754					0.866	11.0
Bis(2-ethylhexyl)phthalate	0.396	0.434	0.508	0.435	0.474	0.480					0.455	8.9
Di-n-octylphthalate	0.621	0.662	0.793	0.627	0.672	0.670					0.674	9.2
Benzo(b)fluoranthene	0.946	0.994	1.147	0.940	1.024	1.148					1.033	9.1
Benzo(k)fluoranthene	0.975	1.033	1.133	0.946	0.909	0.762					0.960	13.0
Benzo(a)pyrene	0.903	0.993	1.124	0.921	0.927	0.918					0.964	8.7
Indeno(1,2,3-cd)pyrene	0.938	1.037	1.427	1.015	1.208	1.219					1.141	15.7
Dibenzo(a,h)anthracene	1.005	1.038	1.139	0.970	1.007	0.990					1.025	5.9
Benzo(g,h,i)perylene	0.999	1.048	1.165	1.003	0.988	0.984					1.031	6.7

6 - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/26/2013 06/26/2013

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GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4663.D RRF010 = S6B4665.D RRF025 = S6B4661.D RRF040 = S6B4666.D RRF060 = S6B4664.D
RRF080 = S6B4662.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Nitrobenzene-d5	0.338	0.323	0.376	0.318	0.302	0.287					0.324	9.5
2-Fluorobiphenyl	1.117	1.211	1.490	1.212	1.266	1.278					1.262	9.9
Terphenyl-d14	0.631	0.649	0.763	0.605	0.610	0.563					0.637	10.8
Phenol-d5	1.050	1.162	1.231	1.134	1.169	1.201					1.158	5.4
2-Fluorophenol	0.778	0.729	0.818	0.781	0.818	0.835					0.793	4.9
2,4,6-Tribromophenol	0.134	0.135	0.148	0.130	0.138	0.134					0.136	4.6

6 - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/27/2013 06/27/2013

Calibration Times: 14:04 16:11

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4713.D RRF010 = S6B4715.D RRF025 = S6B4711B.D RRF040 = S6B4716.D RRF060 = S6B4714.D
RRF080 = S6B4712.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Phenol	1.094	1.340	1.607	1.324	1.389	1.473					1.371	12.5
Bis(2-chloroethyl)ether	0.382	0.458	0.499	0.436	0.424	0.395					0.432	9.9
2-Chlorophenol	1.096	1.230	1.274	1.129	1.173	1.187					1.182	5.5
1,3-Dichlorobenzene	1.146	1.457	1.520	1.260	1.343	1.266					1.332	10.4
1,4-Dichlorobenzene	1.198	1.375	1.504	1.346	1.333	1.282					1.340	7.6
1,2-Dichlorobenzene	1.302	1.271	1.368	1.302	1.285	1.218					1.291	3.8
2-Methylphenol	1.002	1.022	1.279	1.018	1.118	1.093					1.088	9.6
2,2´-oxybis(1-Chloropropane)	0.303	0.319	0.278	0.290	0.288	0.276					0.292	5.6
4-Methylphenol	1.073	1.212	1.449	1.214	1.212	1.307					1.245	10.1
N-Nitroso-di-n-propylamine	0.735	0.694	0.810	0.751	0.773	0.786					0.758	5.4
Hexachloroethane	0.576	0.511	0.593	0.525	0.535	0.511					0.542	6.4
Nitrobenzene	0.362	0.340	0.361	0.289	0.289	0.284					0.321	11.7
Isophorone	0.548	0.525	0.626	0.489	0.478	0.466					0.522	11.4
2-Nitrophenol	0.194	0.190	0.206	0.171	0.160	0.164					0.181	10.2
2,4-Dimethylphenol	0.256	0.294	0.383	0.303	0.316	0.299					0.308	13.5
2,4-Dichlorophenol	0.344	0.319	0.384	0.280	0.288	0.283					0.316	13.1
1,2,4-Trichlorobenzene	0.379	0.372	0.375	0.328	0.313	0.297					0.344	10.5
Naphthalene	0.903	0.968	1.025	0.861	0.828	0.780					0.894	10.2
4-Chloroaniline	0.413	0.417	0.431	0.339	0.343	0.340					0.380	11.6
Bis(2-chloroethoxy)methane	0.277	0.285	0.286	0.243	0.234	0.227					0.259	10.4
Hexachlorobutadiene	0.275	0.225	0.230	0.179	0.182	0.172					0.210	19.2
4-Chloro-3-methylphenol	0.323	0.317	0.383	0.276	0.274	0.261					0.306	14.8
2-Methylnaphthalene	0.768	0.735	0.823	0.640	0.635	0.618					0.703	12.0
Hexachlorocyclopentadiene	0.240	0.304	0.324	0.244	0.307	0.293					0.285	12.3
2,4,6-Trichlorophenol	0.359	0.365	0.425	0.368	0.368	0.381					0.378	6.4
2,4,5-Trichlorophenol		0.414	0.457	0.381	0.388	0.388					0.406	7.8
2-Chloronaphthalene	0.960	1.040	1.085	0.951	0.937	0.967					0.990	5.9

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.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/27/2013 06/27/2013

Calibration Times: 14:04 16:11

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4713.D RRF010 = S6B4715.D RRF025 = S6B4711B.D RRF040 = S6B4716.D RRF060 = S6B4714.D
RRF080 = S6B4712.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
2-Nitroaniline		0.260	0.334	0.258	0.267	0.278					0.280	11.2
Dimethylphthalate	1.232	1.351	1.518	1.203	1.257	1.276					1.306	8.8
Acenaphthylene	1.688	1.692	1.807	1.580	1.607	1.639					1.669	4.8
2,6-Dinitrotoluene	0.296	0.303	0.386	0.289	0.295	0.302					0.312	11.8
3-Nitroaniline		0.292	0.380	0.282	0.303	0.316					0.315	12.4
Acenaphthene	1.095	1.116	1.308	1.065	1.063	1.084					1.122	8.3
2,4-Dinitrophenol		0.170	0.219	0.215	0.220	0.238					0.212	11.9
4-Nitrophenol		0.342	0.414	0.316	0.333	0.338					0.348	10.9
Dibenzofuran	1.559	1.640	1.787	1.495	1.506	1.518					1.584	7.1
2,4-Dinitrotoluene	0.435	0.420	0.530	0.399	0.420	0.434					0.440	10.5
Diethylphthalate	1.262	1.340	1.482	1.244	1.232	1.255					1.303	7.4
4-Chlorophenyl-phenylether	0.664	0.736	0.839	0.704	0.709	0.705					0.726	8.3
Fluorene	1.234	1.354	1.548	1.329	1.332	1.355					1.359	7.6
4-Nitroaniline		0.349	0.429	0.324	0.355	0.361					0.364	10.8
4,6-Dinitro-2-methylphenol		0.123	0.145	0.132	0.139	0.139					0.136	6.0
N-Nitrosodiphenylamine	0.480	0.530	0.582	0.502	0.518	0.495					0.518	6.9
4-Bromophenyl-phenylether	0.195	0.206	0.208	0.193	0.196	0.181					0.197	5.1
Hexachlorobenzene	0.212	0.215	0.233	0.202	0.212	0.205					0.213	5.0
Pentachlorophenol		0.119	0.137	0.148	0.145	0.144					0.139	8.7
Phenanthrene	0.883	0.968	1.074	0.922	0.942	0.924					0.952	6.9
Anthracene	0.928	0.980	1.106	0.919	0.996	0.957					0.981	6.9
Carbazole	0.859	0.913	1.077	0.832	0.901	0.902					0.914	9.3
Di-n-butylphthalate	0.928	1.033	1.183	0.999	1.046	1.033					1.037	8.0
Fluoranthene	1.161	1.250	1.459	1.167	1.257	1.254					1.258	8.6
Pyrene	0.771	0.876	0.923	0.816	0.790	0.716					0.815	9.1
Butylbenzylphthalate	0.323	0.373	0.406	0.361	0.358	0.322					0.357	8.9
3,3´-Dichlorobenzidine	0.376	0.381	0.486	0.348	0.373	0.367					0.389	12.7

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.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/27/2013 06/27/2013

Calibration Times: 14:04 16:11

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4713.D RRF010 = S6B4715.D RRF025 = S6B4711B.D RRF040 = S6B4716.D RRF060 = S6B4714.D
RRF080 = S6B4712.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Benzo(a)anthracene	0.952	1.019	1.185	0.935	0.952	0.914					0.993	10.1
Chrysene	0.894	0.922	1.043	0.824	0.844	0.812					0.890	9.6
Bis(2-ethylhexyl)phthalate	0.529	0.525	0.592	0.545	0.537	0.510					0.540	5.2
Di-n-octylphthalate	0.804	0.888	0.887	0.844	0.798	0.749					0.828	6.6
Benzo(b)fluoranthene	1.001	1.027	1.153	0.930	0.928	0.903					0.990	9.4
Benzo(k)fluoranthene	0.972	1.006	1.123	0.991	0.981	0.945					1.003	6.2
Benzo(a)pyrene	0.947	0.967	1.111	0.923	0.934	0.918					0.967	7.5
Indeno(1,2,3-cd)pyrene	0.992	1.008	1.232	1.184	1.265	1.253					1.156	10.7
Dibenzo(a,h)anthracene	0.913	1.049	1.225	0.955	1.014	0.988					1.024	10.6
Benzo(g,h,i)perylene	1.053	1.081	1.324	0.996	1.057	1.067					1.096	10.5

6 - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract:

Lab Code: MITKEM Case No.: M0975 SAS No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date(s): 06/27/2013 06/27/2013

Calibration Times: 14:04 16:11

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = S6B4713.D RRF010 = S6B4715.D RRF025 = S6B4711B.D RRF040 = S6B4716.D RRF060 = S6B4714.D
RRF080 = S6B4712.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080					RRF	% RSD
Nitrobenzene-d5	0.359	0.358	0.360	0.327	0.320	0.303					0.338	7.3
2-Fluorobiphenyl	1.126	1.192	1.319	1.183	1.196	1.185					1.200	5.3
Terphenyl-d14	0.553	0.620	0.660	0.589	0.569	0.514					0.584	8.8
Phenol-d5	1.199	1.323	1.557	1.250	1.311	1.324					1.327	9.3
2-Fluorophenol	0.847	0.985	1.062	0.951	0.999	0.987					0.972	7.3
2,4,6-Tribromophenol	0.084	0.108	0.103	0.098	0.102	0.097					0.099	8.3

Data File: \\avogadro\organics\S6.I\130621.B\S6B4571A.d
Report Date: 24-Jun-2013 12:02

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130621.B\S6B4571A.d
Lab Smp Id: SSTD0256W Client Smp ID: SSTD0256W
Inj Date : 21-JUN-2013 15:17
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0256W,SSTD0256W
Misc Info : 2,3
Comment   :
Method   : \\avogadro\organics\S6.I\130621.B\S6_8270C_N.m
Meth Date : 24-Jun-2013 12:00 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.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: TARGET113

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

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109 1,4-Dioxane-d8	96	2.700	2.700	(0.506)	8892	25.0000	32
	108 1,4-Dioxane	58	2.730	2.730	(0.512)	3258	25.0000	24(Q)
	1 N-Nitrosodimethylamine	74	3.012	3.012	(0.565)	21094	25.0000	29(Q)
	2 Pyridine	79	3.065	3.065	(0.575)	29644	25.0000	27(TQ)
$	3 2-Fluorophenol	112	4.228	4.228	(0.793)	43675	25.0000	27
	101 Benzaldehyde	77	4.962	4.962	(0.931)	42914	25.0000	27
$	5 Phenol-d5	99	5.009	5.009	(0.939)	62047	25.0000	26
	6 Phenol	94	5.021	5.021	(0.942)	62719	25.0000	26
	7 Aniline	66	5.021	5.021	(0.942)	49952	25.0000	27
	8 bis(2-Chloroethyl)Ether	63	5.097	5.097	(0.956)	23505	25.0000	26
	10 2-Chlorophenol	128	5.156	5.156	(0.967)	56215	25.0000	27
	11 1,3-Dichlorobenzene	146	5.285	5.285	(0.991)	64043	25.0000	26
*	12 1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	78500	40.0000	
	13 1,4-Dichlorobenzene	146	5.344	5.344	(1.002)	69364	25.0000	27
	117 2-Ethyl-1-hexanol	57	5.374	5.374	(1.008)	23218	25.0000	28
	15 Benzyl Alcohol	108	5.438	5.438	(1.020)	40410	25.0000	27
	16 1,2-Dichlorobenzene	146	5.474	5.474	(1.026)	67739	25.0000	27
	17 2-Methylphenol	108	5.526	5.526	(1.036)	52765	25.0000	27
	18 2,2'-oxybis(1-Chloropropane)	45	5.544	5.544	(1.040)	18623	25.0000	26(Q)
	99 Acetophenone	105	5.662	5.662	(1.062)	101337	25.0000	27

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.656	5.656	(1.061)	44422	25.0000	26
	20 4-Methylphenol	108	5.656	5.656	(1.061)	60834	25.0000	26
	21 Hexachloroethane	117	5.761	5.761	(1.080)	25684	25.0000	26(Q)
$	22 Nitrobenzene-d5	82	5.785	5.785	(0.904)	79913	25.0000	27
	23 Nitrobenzene	77	5.803	5.803	(0.907)	77281	25.0000	28
	24 Isophorone	82	6.002	6.002	(0.938)	123634	25.0000	28
	25 2-Nitrophenol	139	6.073	6.073	(0.949)	37715	25.0000	26
	26 2,4-Dimethylphenol	107	6.096	6.096	(0.953)	78306	25.0000	29
	27 bis(2-Chloroethoxy)methane	93	6.173	6.173	(0.965)	59691	25.0000	27
	28 Benzoic Acid	105	6.179	6.179	(0.966)	62772	25.0000	28
	29 2,4-Dichlorophenol	162	6.267	6.267	(0.980)	84784	25.0000	29
	30 1,2,4-Trichlorobenzene	180	6.343	6.343	(0.992)	99706	25.0000	27
*	31 Naphthalene-d8	136	6.396	6.396	(1.000)	341910	40.0000	
	32 Naphthalene	128	6.408	6.408	(1.002)	202129	25.0000	27
	115 alpha-Terpineol	59	6.408	6.408	(1.002)	28833	25.0000	27(Q)
	33 4-Chloroaniline	127	6.443	6.443	(1.007)	84677	25.0000	27
	34 Hexachlorobutadiene	225	6.513	6.513	(1.018)	73673	25.0000	26
	102 Caprolactam	113	6.743	6.743	(1.054)	27825	25.0000	30
	35 4-Chloro-3-Methylphenol	107	6.843	6.843	(1.070)	75033	25.0000	28
	36 2-Methylnaphthalene	142	6.984	6.984	(1.092)	170561	25.0000	27
	114 1-Methylnaphthalene	142	7.066	7.066	(1.105)	162032	25.0000	28
	38 Hexachlorocyclopentadiene	237	7.125	7.125	(0.907)	94610	25.0000	29
	112 1,2,4,5-Tetrachlorobenzene	216	7.125	7.125	(0.907)	157064	25.0000	28
	39 2,4,6-Trichlorophenol	196	7.213	7.213	(0.918)	100269	25.0000	29
	40 2,4,5-Trichlorophenol	196	7.248	7.248	(0.922)	107516	25.0000	29
$	41 2-Fluorobiphenyl	172	7.283	7.283	(0.927)	287526	25.0000	28
	98 1,1'-Biphenyl	154	7.371	7.371	(0.938)	272875	25.0000	28
	42 2-Chloronaphthalene	162	7.389	7.389	(0.940)	200346	25.0000	28
	43 2-Nitroaniline	65	7.465	7.465	(0.950)	55323	25.0000	29
	44 Dimethylphthalate	163	7.612	7.612	(0.969)	293057	25.0000	28
	45 2,6-Dinitrotoluene	165	7.665	7.665	(0.975)	70649	25.0000	30
	46 Acenaphthylene	152	7.741	7.741	(0.985)	338607	25.0000	28
	47 3-Nitroaniline	138	7.806	7.806	(0.993)	53186	25.0000	28
*	48 Acenaphthene-d10	164	7.859	7.859	(1.000)	312148	40.0000	
	49 Acenaphthene	153	7.888	7.888	(1.004)	232499	25.0000	28
	50 2,4-Dinitrophenol	184	7.888	7.888	(1.004)	58089	25.0000	27
	51 4-Nitrophenol	109	7.935	7.935	(1.010)	78038	25.0000	30
	53 2,4-Dinitrotoluene	165	8.000	8.000	(1.018)	97811	25.0000	29(Q)
	52 Dibenzofuran	168	8.029	8.029	(1.022)	359774	25.0000	28
	110 2,3,4,6-Tetrachlorophenol	232	8.129	8.129	(1.034)	118785	25.0000	29
	54 Diethylphthalate	149	8.200	8.200	(1.043)	279823	25.0000	29
	56 4-Chlorophenyl-phenylether	204	8.300	8.300	(1.056)	206477	25.0000	28
	55 Fluorene	166	8.311	8.311	(1.058)	310755	25.0000	28
	57 4-Nitroaniline	138	8.323	8.323	(1.059)	66278	25.0000	28
	58 4,6-Dinitro-2-methylphenol	198	8.347	8.347	(0.917)	80501	25.0000	28
	59 N-Nitrosodiphenylamine	169	8.400	8.400	(0.923)	277709	25.0000	28
	97 Azobenzene	77	8.435	8.435	(0.926)	291849	25.0000	28
$	60 2,4,6-Tribromophenol	330	8.517	8.517	(0.935)	79585	25.0000	30
	61 4-Bromophenyl-phenylether	248	8.711	8.711	(0.957)	141202	25.0000	29
	62 Hexachlorobenzene	284	8.781	8.781	(0.965)	149341	25.0000	28
	100 Atrazine	200	8.834	8.834	(0.970)	49437	25.0000	27
	63 Pentachlorophenol	266	8.940	8.940	(0.982)	120103	25.0000	28(Q)
	111 Pentachloronitrobenzene	237	8.958	8.958	(0.984)	75098	25.0000	28
*	64 Phenanthrene-d10	188	9.105	9.105	(1.000)	829223	40.0000	

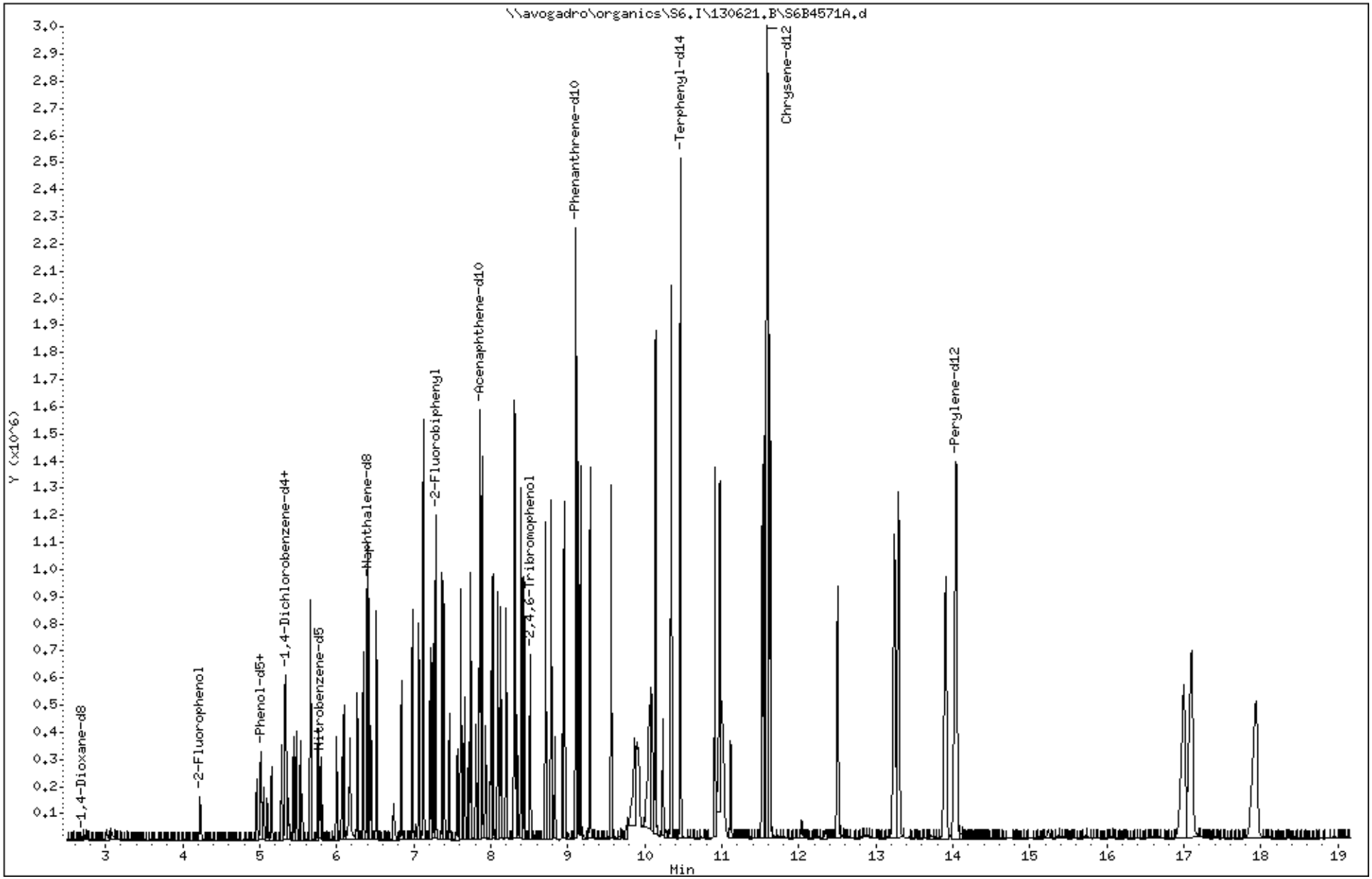
Data File: \\avogadro\organics\S6.I\130621.B\S6B4571A.d
Report Date: 24-Jun-2013 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.122	9.122	(1.002)	529335	25.0000	28
66	Anthracene	178	9.163	9.163	(1.006)	544250	25.0000	29
67	Carbazole	167	9.293	9.293	(1.021)	483633	25.0000	29
68	Di-n-butylphthalate	149	9.563	9.563	(1.050)	501089	25.0000	28
69	Fluoranthene	202	10.145	10.145	(1.114)	767882	25.0000	28
70	Benzidine	184	10.239	10.239	(0.883)	164762	25.0000	27
71	Pyrene	202	10.344	10.344	(0.893)	799043	25.0000	29
$ 72	Terphenyl-d14	244	10.462	10.462	(0.903)	644053	25.0000	29
73	Butylbenzylphthalate	149	10.908	10.908	(0.941)	255847	25.0000	28
74	3,3'-Dichlorobenzidine	252	11.525	11.525	(0.994)	371111	25.0000	29
78	bis(2-Ethylhexyl)phthalate	149	11.555	11.555	(0.997)	365785	25.0000	27
75	Benzo(a)anthracene	228	11.572	11.572	(0.998)	982018	25.0000	29
* 76	Chrysene-d12	240	11.590	11.590	(1.000)	1384512	40.0000	
77	Chrysene	228	11.625	11.625	(1.003)	869033	25.0000	29
79	Di-n-octylphthalate	149	12.501	12.501	(0.890)	611509	25.0000	27
80	Benzo(b)fluoranthene	252	13.241	13.241	(0.943)	982247	25.0000	28
81	Benzo(k)fluoranthene	252	13.294	13.294	(0.947)	994552	25.0000	28
82	Benzo(a)pyrene	252	13.911	13.911	(0.991)	955048	25.0000	28
* 83	Perylene-d12	264	14.040	14.040	(1.000)	1415377	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	17.001	17.001	(1.211)	986434	25.0000	26
85	Dibenzo(a,h)anthracene	278	17.101	17.101	(1.218)	977414	25.0000	28
86	Benzo(g,h,i)perylene	276	17.936	17.936	(1.277)	1003920	25.0000	28

QC Flag Legend

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

Data File: \\avogadro\organics\S6.I\130621.B\S6B4571A.d
Date : 21-JUN-2013 15:17
Client ID: SSTD0256W
Instrument: S6.i
Sample Info: SSTD0256W,SSTD0256W
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130621.B\S6B4572.d
Report Date: 24-Jun-2013 12:02

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130621.B\S6B4572.d
Lab Smp Id: SSTD0056W Client Smp ID: SSTD0056W
Inj Date : 21-JUN-2013 15:48
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0056W,SSTD0056W
Misc Info : 1,1
Comment   :
Method   : \\avogadro\organics\S6.I\130621.B\S6_8270C_N.m
Meth Date : 24-Jun-2013 12:00 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	2.718	2.700	(0.510)	1065	5.00000	4(a)
	108	1,4-Dioxane	58	2.729	2.730	(0.512)	1052	5.00000	7(aQ)
	1	N-Nitrosodimethylamine	74	3.017	3.012	(0.566)	3145	5.00000	4(a)
	2	Pyridine	79	3.100	3.065	(0.581)	4326	5.00000	4(TaQ)
$	3	2-Fluorophenol	112	4.228	4.228	(0.793)	7470	5.00000	4(a)
	101	Benzaldehyde	77	4.962	4.962	(0.931)	9647	5.00000	6(a)
$	5	Phenol-d5	99	5.009	5.009	(0.939)	12210	5.00000	5(a)
	6	Phenol	94	5.021	5.021	(0.942)	11037	5.00000	4(a)
	7	Aniline	66	5.015	5.021	(0.941)	8350	5.00000	4(a)
	8	bis(2-Chloroethyl)Ether	63	5.097	5.097	(0.956)	5354	5.00000	6(aQ)
	10	2-Chlorophenol	128	5.156	5.156	(0.967)	9622	5.00000	4(a)
	11	1,3-Dichlorobenzene	146	5.285	5.285	(0.991)	12857	5.00000	5(a)
*	12	1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	81092	40.0000	
	13	1,4-Dichlorobenzene	146	5.344	5.344	(1.002)	12831	5.00000	5(a)
	117	2-Ethyl-1-hexanol	57	5.373	5.374	(1.008)	4079	5.00000	5(a)
	15	Benzyl Alcohol	108	5.438	5.438	(1.020)	7666	5.00000	5(a)
	16	1,2-Dichlorobenzene	146	5.473	5.474	(1.026)	13138	5.00000	5(a)
	17	2-Methylphenol	108	5.526	5.526	(1.036)	9466	5.00000	5(a)
	18	2,2'-oxybis(1-Chloropropane)	45	5.550	5.544	(1.041)	4095	5.00000	5(aQ)
	99	Acetophenone	105	5.655	5.662	(1.061)	19633	5.00000	5(aQ)

Data File: \\avogadro\organics\S6.I\130621.B\S6B4572.d
Report Date: 24-Jun-2013 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
19	N-Nitroso-di-n-propylamine	70	5.655	5.656	(1.061)	8142	5.00000	5(a)
20	4-Methylphenol	108	5.650	5.656	(1.059)	10060	5.00000	4(a)
21	Hexachloroethane	117	5.761	5.761	(1.080)	4535	5.00000	4(a)
$ 22	Nitrobenzene-d5	82	5.785	5.785	(0.905)	16030	5.00000	5(a)
23	Nitrobenzene	77	5.802	5.803	(0.908)	14760	5.00000	5(a)
24	Isophorone	82	5.996	6.002	(0.938)	24099	5.00000	5(a)
25	2-Nitrophenol	139	6.067	6.073	(0.949)	7995	5.00000	5(a)
26	2,4-Dimethylphenol	107	6.090	6.096	(0.953)	11742	5.00000	4(a)
27	bis(2-Chloroethoxy)methane	93	6.172	6.173	(0.966)	11040	5.00000	5(a)
28	Benzoic Acid	105	6.137	6.179	(0.960)	11204	5.00000	5(a)
29	2,4-Dichlorophenol	162	6.266	6.267	(0.981)	14758	5.00000	5(a)
30	1,2,4-Trichlorobenzene	180	6.343	6.343	(0.993)	19227	5.00000	5(a)
* 31	Naphthalene-d8	136	6.390	6.396	(1.000)	346121	40.0000	
32	Naphthalene	128	6.407	6.408	(1.003)	38287	5.00000	5(a)
115	alpha-Terpineol	59	6.407	6.408	(1.003)	5101	5.00000	5(aQ)
33	4-Chloroaniline	127	6.443	6.443	(1.008)	16984	5.00000	5(a)
34	Hexachlorobutadiene	225	6.513	6.513	(1.019)	14597	5.00000	5(a)
102	Caprolactam	113	6.719	6.743	(1.051)	5657	5.00000	6(a)
35	4-Chloro-3-Methylphenol	107	6.836	6.843	(1.070)	13419	5.00000	5(a)
36	2-Methylnaphthalene	142	6.983	6.984	(1.093)	33212	5.00000	5(a)
114	1-Methylnaphthalene	142	7.066	7.066	(1.106)	30238	5.00000	5(a)
38	Hexachlorocyclopentadiene	237	7.124	7.125	(0.907)	15959	5.00000	4(a)
112	1,2,4,5-Tetrachlorobenzene	216	7.124	7.125	(0.907)	27621	5.00000	4(a)
39	2,4,6-Trichlorophenol	196	7.212	7.213	(0.918)	18557	5.00000	4(aQ)
40	2,4,5-Trichlorophenol	196	7.242	7.248	(0.922)	18743	5.00000	4(a)
$ 41	2-Fluorobiphenyl	172	7.283	7.283	(0.927)	55840	5.00000	5(a)
98	1,1'-Biphenyl	154	7.365	7.371	(0.937)	51080	5.00000	4(a)
42	2-Chloronaphthalene	162	7.389	7.389	(0.940)	42161	5.00000	5(a)
43	2-Nitroaniline	65	7.465	7.465	(0.950)	10178	5.00000	4(a)
44	Dimethylphthalate	163	7.612	7.612	(0.969)	56569	5.00000	5(Ta)
45	2,6-Dinitrotoluene	165	7.659	7.665	(0.975)	13404	5.00000	5(a)
46	Acenaphthylene	152	7.741	7.741	(0.985)	62660	5.00000	4(a)
47	3-Nitroaniline	138	7.806	7.806	(0.993)	11023	5.00000	5(a)
* 48	Acenaphthene-d10	164	7.859	7.859	(1.000)	369200	40.0000	
49	Acenaphthene	153	7.882	7.888	(1.003)	41535	5.00000	4(a)
50	2,4-Dinitrophenol	184	7.888	7.888	(1.004)	8887	5.00000	4(aQ)
51	4-Nitrophenol	109	7.929	7.935	(1.009)	15090	5.00000	5(a)
53	2,4-Dinitrotoluene	165	8.000	8.000	(1.018)	19991	5.00000	5(a)
52	Dibenzofuran	168	8.023	8.029	(1.021)	70398	5.00000	5(a)
110	2,3,4,6-Tetrachlorophenol	232	8.129	8.129	(1.034)	23251	5.00000	5
54	Diethylphthalate	149	8.194	8.200	(1.043)	52163	5.00000	4(a)
56	4-Chlorophenyl-phenylether	204	8.299	8.300	(1.056)	40148	5.00000	5(a)
55	Fluorene	166	8.311	8.311	(1.058)	57447	5.00000	4(a)
57	4-Nitroaniline	138	8.311	8.323	(1.058)	14104	5.00000	5(a)
58	4,6-Dinitro-2-methylphenol	198	8.341	8.347	(0.916)	14544	5.00000	4(aQ)
59	N-Nitrosodiphenylamine	169	8.399	8.400	(0.922)	50429	5.00000	4(a)
97	Azobenzene	77	8.435	8.435	(0.926)	57872	5.00000	5(a)
$ 60	2,4,6-Tribromophenol	330	8.511	8.517	(0.934)	13103	5.00000	4(a)
61	4-Bromophenyl-phenylether	248	8.717	8.711	(0.957)	26723	5.00000	4(a)
62	Hexachlorobenzene	284	8.787	8.781	(0.965)	29672	5.00000	5(a)
100	Atrazine	200	8.834	8.834	(0.970)	14231	5.00000	6(a)
63	Pentachlorophenol	266	8.940	8.940	(0.981)	24203	5.00000	5(aQ)
111	Pentachloronitrobenzene	237	8.957	8.958	(0.983)	14724	5.00000	5(a)
* 64	Phenanthrene-d10	188	9.110	9.105	(1.000)	985365	40.0000	

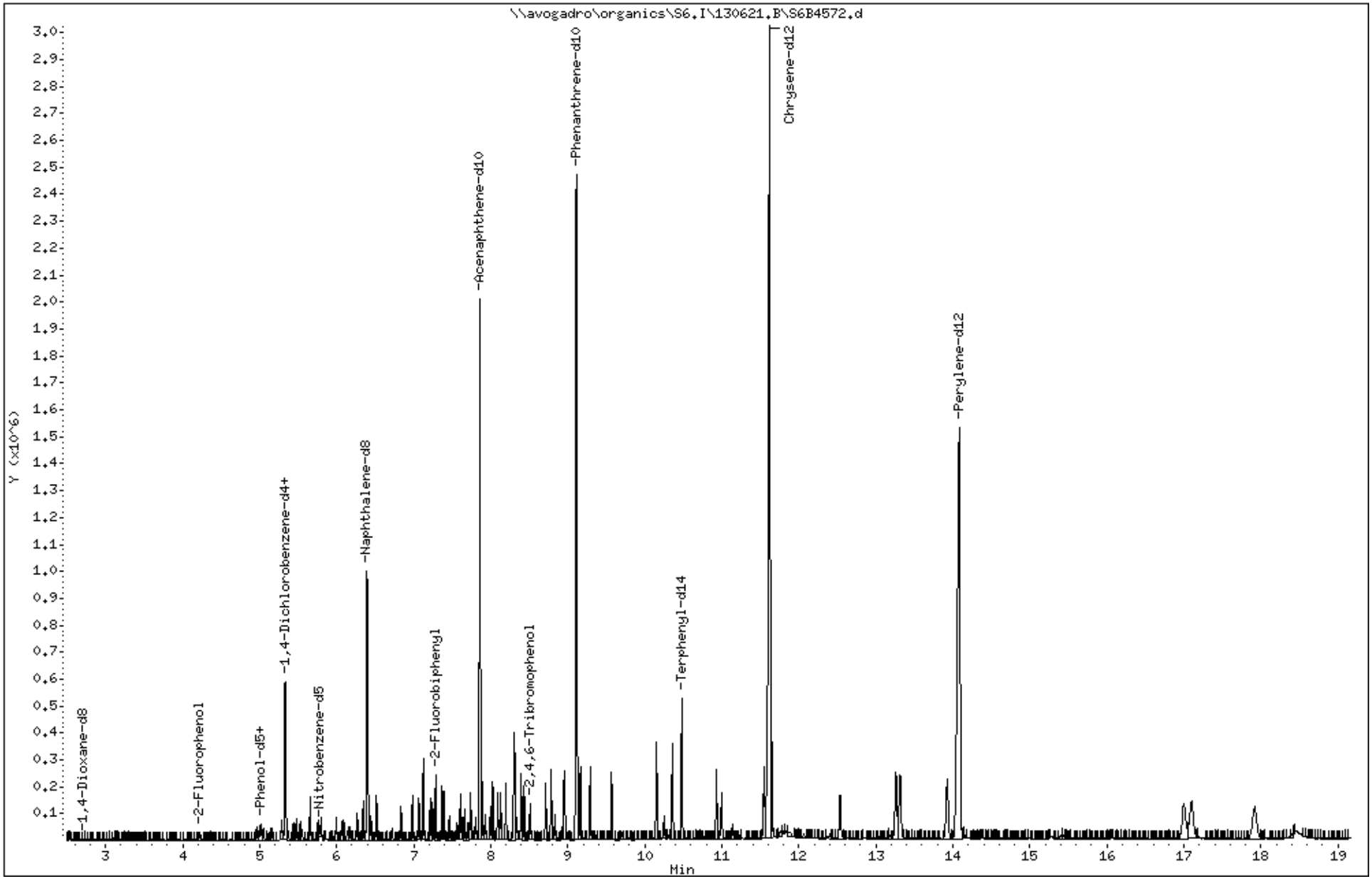
Data File: \\avogadro\organics\S6.I\130621.B\S6B4572.d
Report Date: 24-Jun-2013 12:02

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
Compounds								
65	Phenanthrene	178	9.128	9.122	(1.002)	101639	5.00000	4(a)
66	Anthracene	178	9.169	9.163	(1.006)	99211	5.00000	4(a)
67	Carbazole	167	9.292	9.293	(1.020)	88946	5.00000	4(a)
68	Di-n-butylphthalate	149	9.569	9.563	(1.050)	94265	5.00000	4(a)
69	Fluoranthene	202	10.156	10.145	(1.115)	148111	5.00000	5(a)
70	Benzidine	184	10.250	10.239	(0.882)	32305	5.00000	4(a)
71	Pyrene	202	10.362	10.344	(0.892)	149592	5.00000	5(a)
$ 72	Terphenyl-d14	244	10.479	10.462	(0.902)	122701	5.00000	5(a)
73	Butylbenzylphthalate	149	10.932	10.908	(0.941)	46801	5.00000	4(a)
74	3,3'-Dichlorobenzidine	252	11.549	11.525	(0.994)	66873	5.00000	4(a)
78	bis(2-Ethylhexyl)phthalate	149	11.584	11.555	(0.997)	66434	5.00000	4(a)
75	Benzo(a)anthracene	228	11.596	11.572	(0.998)	192266	5.00000	5(a)
* 76	Chrysene-d12	240	11.619	11.590	(1.000)	1607296	40.0000	
77	Chrysene	228	11.643	11.625	(1.002)	167109	5.00000	5(a)
79	Di-n-octylphthalate	149	12.536	12.501	(0.890)	112890	5.00000	4(a)
80	Benzo(b)fluoranthene	252	13.258	13.241	(0.942)	178848	5.00000	4(a)
81	Benzo(k)fluoranthene	252	13.311	13.294	(0.945)	194579	5.00000	5(a)
82	Benzo(a)pyrene	252	13.922	13.911	(0.989)	168863	5.00000	4(a)
* 83	Perylene-d12	264	14.081	14.040	(1.000)	1594882	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	17.007	17.001	(1.208)	174805	5.00000	4(aH)
85	Dibenzo(a,h)anthracene	278	17.101	17.101	(1.214)	174761	5.00000	4(aH)
86	Benzo(g,h,i)perylene	276	17.924	17.936	(1.273)	184388	5.00000	5(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.
H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\S6.I\130621.B\S6B4572.d
Date : 21-JUN-2013 15:48
Client ID: SSTD0056W
Instrument: S6.i
Sample Info: SSTD0056W,SSTD0056W
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130621.B\S6B4573.d
Report Date: 24-Jun-2013 12:02

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130621.B\S6B4573.d
Lab Smp Id: SSTD0606W Client Smp ID: SSTD0606W
Inj Date : 21-JUN-2013 16:13
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0606W,SSTD0606W
Misc Info : 1,5
Comment   :
Method   : \\avogadro\organics\S6.I\130621.B\S6_8270C_N.m
Meth Date : 24-Jun-2013 12:00 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	2.694	2.700	(0.505)	16530	60.0000	51
	108	1,4-Dioxane	58	2.724	2.730	(0.511)	9000	60.0000	57(Q)
	1	N-Nitrosodimethylamine	74	3.012	3.012	(0.565)	52589	60.0000	62
	2	Pyridine	79	3.053	3.065	(0.573)	76381	60.0000	60
$	3	2-Fluorophenol	112	4.228	4.228	(0.793)	116195	60.0000	63
	101	Benzaldehyde	77	4.962	4.962	(0.931)	97025	60.0000	52
$	5	Phenol-d5	99	5.021	5.009	(0.942)	164483	60.0000	60
	6	Phenol	94	5.033	5.021	(0.944)	176584	60.0000	63
	7	Aniline	66	5.033	5.021	(0.944)	134635	60.0000	62(Q)
	8	bis(2-Chloroethyl)Ether	63	5.103	5.097	(0.957)	57172	60.0000	55
	10	2-Chlorophenol	128	5.162	5.156	(0.968)	147430	60.0000	61
	11	1,3-Dichlorobenzene	146	5.285	5.285	(0.991)	170249	60.0000	59
*	12	1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	91376	40.0000	
	13	1,4-Dichlorobenzene	146	5.344	5.344	(1.002)	174255	60.0000	58
	117	2-Ethyl-1-hexanol	57	5.379	5.374	(1.009)	56278	60.0000	57
	15	Benzyl Alcohol	108	5.444	5.438	(1.021)	104278	60.0000	60
	16	1,2-Dichlorobenzene	146	5.479	5.474	(1.028)	172915	60.0000	60
	17	2-Methylphenol	108	5.532	5.526	(1.037)	141198	60.0000	62
	18	2,2'-oxybis(1-Chloropropane)	45	5.550	5.544	(1.041)	48197	60.0000	57(Q)
	99	Acetophenone	105	5.667	5.662	(1.063)	271207	60.0000	61

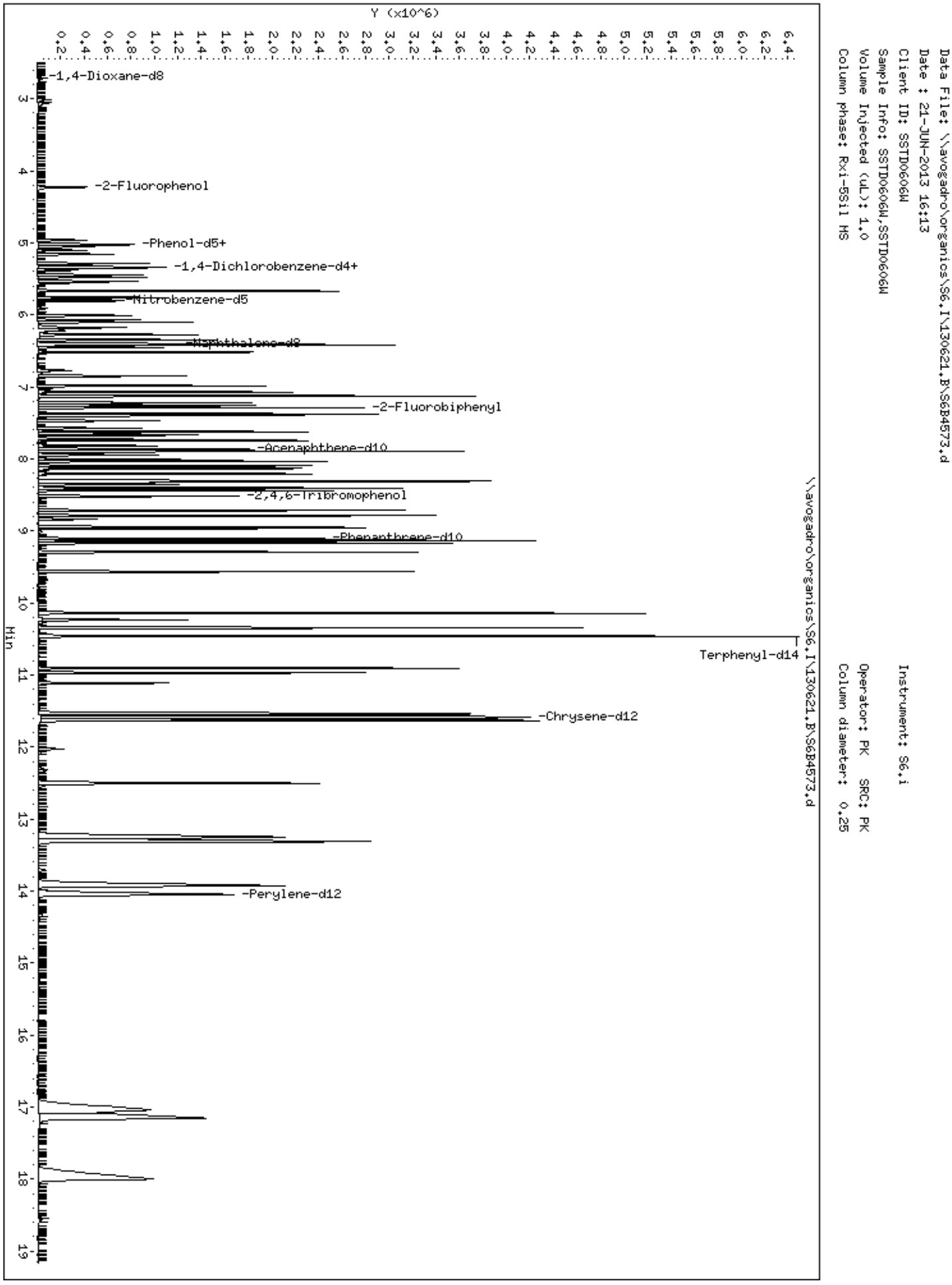
							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.667	5.656	(1.063)	121041	60.0000	62
	20 4-Methylphenol	108	5.661	5.656	(1.062)	171269	60.0000	63
	21 Hexachloroethane	117	5.761	5.761	(1.080)	67582	60.0000	60(Q)
$	22 Nitrobenzene-d5	82	5.797	5.785	(0.906)	210593	60.0000	56
	23 Nitrobenzene	77	5.808	5.803	(0.908)	194247	60.0000	56
	24 Isophorone	82	6.008	6.002	(0.939)	312753	60.0000	56
	25 2-Nitrophenol	139	6.073	6.073	(0.949)	102533	60.0000	55
	26 2,4-Dimethylphenol	107	6.102	6.096	(0.954)	210555	60.0000	62
	27 bis(2-Chloroethoxy)methane	93	6.179	6.173	(0.966)	160407	60.0000	58
	28 Benzoic Acid	105	6.220	6.179	(0.972)	161107	60.0000	58
	29 2,4-Dichlorophenol	162	6.273	6.267	(0.981)	214147	60.0000	57
	30 1,2,4-Trichlorobenzene	180	6.349	6.343	(0.993)	264213	60.0000	57
*	31 Naphthalene-d8	136	6.396	6.396	(1.000)	432061	40.0000	
	32 Naphthalene	128	6.414	6.408	(1.003)	540855	60.0000	57
	115 alpha-Terpineol	59	6.414	6.408	(1.003)	79259	60.0000	59
	33 4-Chloroaniline	127	6.449	6.443	(1.008)	216326	60.0000	55
	34 Hexachlorobutadiene	225	6.519	6.513	(1.019)	195014	60.0000	55
	102 Caprolactam	113	6.778	6.743	(1.060)	54158	60.0000	46
	35 4-Chloro-3-Methylphenol	107	6.848	6.843	(1.071)	189771	60.0000	56
	36 2-Methylnaphthalene	142	6.989	6.984	(1.093)	442795	60.0000	55
	114 1-Methylnaphthalene	142	7.072	7.066	(1.106)	432845	60.0000	58
	38 Hexachlorocyclopentadiene	237	7.125	7.125	(0.906)	248718	60.0000	64
	112 1,2,4,5-Tetrachlorobenzene	216	7.130	7.125	(0.907)	413608	60.0000	61
	39 2,4,6-Trichlorophenol	196	7.219	7.213	(0.918)	248634	60.0000	59
	40 2,4,5-Trichlorophenol	196	7.254	7.248	(0.922)	272270	60.0000	60
$	41 2-Fluorobiphenyl	172	7.289	7.283	(0.927)	751683	60.0000	61
	98 1,1'-Biphenyl	154	7.371	7.371	(0.937)	715449	60.0000	61
	42 2-Chloronaphthalene	162	7.395	7.389	(0.940)	528428	60.0000	60
	43 2-Nitroaniline	65	7.471	7.465	(0.950)	140749	60.0000	61
	44 Dimethylphthalate	163	7.624	7.612	(0.969)	753092	60.0000	60
	45 2,6-Dinitrotoluene	165	7.671	7.665	(0.975)	167548	60.0000	58
	46 Acenaphthylene	152	7.747	7.741	(0.985)	867177	60.0000	60
	47 3-Nitroaniline	138	7.818	7.806	(0.994)	136769	60.0000	59
*	48 Acenaphthene-d10	164	7.865	7.859	(1.000)	377544	40.0000	
	49 Acenaphthene	153	7.894	7.888	(1.004)	615158	60.0000	62
	50 2,4-Dinitrophenol	184	7.900	7.888	(1.004)	162594	60.0000	63(Q)
	51 4-Nitrophenol	109	7.947	7.935	(1.010)	189690	60.0000	59
	53 2,4-Dinitrotoluene	165	8.012	8.000	(1.019)	241727	60.0000	59(Q)
	52 Dibenzofuran	168	8.035	8.029	(1.022)	922489	60.0000	60
	110 2,3,4,6-Tetrachlorophenol	232	8.135	8.129	(1.034)	299782	60.0000	60
	54 Diethylphthalate	149	8.206	8.200	(1.043)	712408	60.0000	61
	56 4-Chlorophenyl-phenylether	204	8.306	8.300	(1.056)	541141	60.0000	62
	55 Fluorene	166	8.317	8.311	(1.058)	840097	60.0000	62
	57 4-Nitroaniline	138	8.341	8.323	(1.061)	165663	60.0000	58
	58 4,6-Dinitro-2-methylphenol	198	8.358	8.347	(0.918)	213372	60.0000	60
	59 N-Nitrosodiphenylamine	169	8.405	8.400	(0.923)	727879	60.0000	60
	97 Azobenzene	77	8.441	8.435	(0.927)	767631	60.0000	59
$	60 2,4,6-Tribromophenol	330	8.523	8.517	(0.936)	198469	60.0000	61
	61 4-Bromophenyl-phenylether	248	8.717	8.711	(0.957)	359472	60.0000	59
	62 Hexachlorobenzene	284	8.787	8.781	(0.965)	389480	60.0000	60
	100 Atrazine	200	8.840	8.834	(0.971)	81283	60.0000	36
	63 Pentachlorophenol	266	8.946	8.940	(0.983)	299807	60.0000	58(Q)
	111 Pentachloronitrobenzene	237	8.964	8.958	(0.985)	197484	60.0000	60
*	64 Phenanthrene-d10	188	9.105	9.105	(1.000)	1020914	40.0000	

Data File: \\avogadro\organics\S6.I\130621.B\S6B4573.d
Report Date: 24-Jun-2013 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	65 Phenanthrene	178	9.128	9.122	(1.003)	1355510	60.0000	59
	66 Anthracene	178	9.169	9.163	(1.007)	1428595	60.0000	61
	67 Carbazole	167	9.298	9.293	(1.021)	1259032	60.0000	61
	68 Di-n-butylphthalate	149	9.563	9.563	(1.050)	1328099	60.0000	60
	69 Fluoranthene	202	10.145	10.145	(1.114)	1995712	60.0000	60
	70 Benzidine	184	10.239	10.239	(0.883)	473369	60.0000	62
	71 Pyrene	202	10.344	10.344	(0.892)	2046106	60.0000	59
$	72 Terphenyl-d14	244	10.462	10.462	(0.902)	1642176	60.0000	59
	73 Butylbenzylphthalate	149	10.908	10.908	(0.941)	667113	60.0000	59
	74 3,3'-Dichlorobenzidine	252	11.531	11.525	(0.994)	949373	60.0000	60
	78 bis(2-Ethylhexyl)phthalate	149	11.549	11.555	(0.996)	1032344	60.0000	61
	75 Benzo(a)anthracene	228	11.572	11.572	(0.998)	2474179	60.0000	58
*	76 Chrysene-d12	240	11.596	11.590	(1.000)	1736180	40.0000	
	77 Chrysene	228	11.631	11.625	(1.003)	2189000	60.0000	58
	79 Di-n-octylphthalate	149	12.501	12.501	(0.890)	1610712	60.0000	60
	80 Benzo(b)fluoranthene	252	13.247	13.241	(0.943)	2540880	60.0000	60
	81 Benzo(k)fluoranthene	252	13.311	13.294	(0.947)	2415808	60.0000	58
	82 Benzo(a)pyrene	252	13.928	13.911	(0.991)	2360641	60.0000	59
*	83 Perylene-d12	264	14.052	14.040	(1.000)	1699886	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	17.037	17.001	(1.212)	2985369	60.0000	67
	85 Dibenzo(a,h)anthracene	278	17.154	17.101	(1.221)	2406873	60.0000	58
	86 Benzo(g,h,i)perylene	276	17.994	17.936	(1.281)	2481533	60.0000	58

QC Flag Legend

Q - Qualifier signal failed the ratio test.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Date : 21-JUN-2013 16:13
Client ID: SSTD0606W
Sample Info: SSTD0606W,SSTD0606W
Volume Injected (uL): 1.0
Column phase: Rxi-5Sil MS
Instrument: S6.i
Operator: PK SRC: PK
Column diameter: 0.25
Y (x10^6)
Min
\\avogadro\organics\S6.I\130621.B\S6B4573.d
-1,4-Dioxane-d8
-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

Data File: \\avogadro\organics\S6.I\130621.B\S6B4574.d
Report Date: 24-Jun-2013 12:02

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130621.B\S6B4574.d
Lab Smp Id: SSTD0106W Client Smp ID: SSTD0106W
Inj Date : 21-JUN-2013 16:38
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0106W,SSTD0106W
Misc Info : 1,2
Comment   :
Method   : \\avogadro\organics\S6.I\130621.B\S6_8270C_N.m
Meth Date : 24-Jun-2013 12:00 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.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: TARGET113

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	2.706	2.700	(0.508)	3345	10.0000	10
	108	1,4-Dioxane	58	2.741	2.730	(0.514)	1055	10.0000	7(a)
	1	N-Nitrosodimethylamine	74	3.012	3.012	(0.565)	8221	10.0000	10
	2	Pyridine	79	3.076	3.065	(0.577)	11760	10.0000	9(Ta)
$	3	2-Fluorophenol	112	4.228	4.228	(0.793)	17717	10.0000	9(a)
	101	Benzaldehyde	77	4.962	4.962	(0.931)	25956	10.0000	14
$	5	Phenol-d5	99	5.009	5.009	(0.939)	26456	10.0000	10
	6	Phenol	94	5.021	5.021	(0.942)	27596	10.0000	10
	7	Aniline	66	5.021	5.021	(0.942)	20296	10.0000	9(a)
	8	bis(2-Chloroethyl)Ether	63	5.097	5.097	(0.956)	9578	10.0000	9(a)
	10	2-Chlorophenol	128	5.156	5.156	(0.967)	24733	10.0000	10
	11	1,3-Dichlorobenzene	146	5.285	5.285	(0.991)	28530	10.0000	10
*	12	1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	92100	40.0000	
	13	1,4-Dichlorobenzene	146	5.344	5.344	(1.002)	29689	10.0000	10
	117	2-Ethyl-1-hexanol	57	5.374	5.374	(1.008)	10935	10.0000	11
	15	Benzyl Alcohol	108	5.432	5.438	(1.019)	17906	10.0000	10
	16	1,2-Dichlorobenzene	146	5.473	5.474	(1.026)	26434	10.0000	9(a)
	17	2-Methylphenol	108	5.526	5.526	(1.036)	22659	10.0000	10
	18	2,2'-oxybis(1-Chloropropane)	45	5.550	5.544	(1.041)	9036	10.0000	11
	99	Acetophenone	105	5.661	5.662	(1.062)	38521	10.0000	9(a)

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.656	5.656	(1.061)	17716	10.0000	9(a)
	20 4-Methylphenol	108	5.650	5.656	(1.059)	26896	10.0000	10
	21 Hexachloroethane	117	5.761	5.761	(1.080)	11075	10.0000	10
$	22 Nitrobenzene-d5	82	5.785	5.785	(0.905)	35892	10.0000	11
	23 Nitrobenzene	77	5.803	5.803	(0.908)	31868	10.0000	10
	24 Isophorone	82	5.996	6.002	(0.938)	54852	10.0000	11
	25 2-Nitrophenol	139	6.067	6.073	(0.949)	18814	10.0000	11
	26 2,4-Dimethylphenol	107	6.090	6.096	(0.953)	28179	10.0000	9(a)
	27 bis(2-Chloroethoxy)methane	93	6.173	6.173	(0.966)	26014	10.0000	10
	28 Benzoic Acid	105	6.161	6.179	(0.964)	30143	10.0000	12(a)
	29 2,4-Dichlorophenol	162	6.267	6.267	(0.981)	34001	10.0000	10
	30 1,2,4-Trichlorobenzene	180	6.343	6.343	(0.993)	43961	10.0000	10
*	31 Naphthalene-d8	136	6.390	6.396	(1.000)	386498	40.0000	
	32 Naphthalene	128	6.408	6.408	(1.003)	84742	10.0000	10
	115 alpha-Terpineol	59	6.402	6.408	(1.002)	12853	10.0000	11
	33 4-Chloroaniline	127	6.443	6.443	(1.008)	36223	10.0000	10
	34 Hexachlorobutadiene	225	6.513	6.513	(1.019)	35577	10.0000	11
	102 Caprolactam	113	6.725	6.743	(1.052)	12576	10.0000	12
	35 4-Chloro-3-Methylphenol	107	6.837	6.843	(1.070)	33121	10.0000	11
	36 2-Methylnaphthalene	142	6.983	6.984	(1.093)	78687	10.0000	11
	114 1-Methylnaphthalene	142	7.066	7.066	(1.106)	69687	10.0000	10
	38 Hexachlorocyclopentadiene	237	7.119	7.125	(0.906)	39679	10.0000	10
	112 1,2,4,5-Tetrachlorobenzene	216	7.125	7.125	(0.907)	69568	10.0000	10
	39 2,4,6-Trichlorophenol	196	7.213	7.213	(0.918)	45112	10.0000	10
	40 2,4,5-Trichlorophenol	196	7.242	7.248	(0.922)	47436	10.0000	10(a)
$	41 2-Fluorobiphenyl	172	7.283	7.283	(0.927)	126551	10.0000	10
	98 1,1'-Biphenyl	154	7.365	7.371	(0.937)	121671	10.0000	10
	42 2-Chloronaphthalene	162	7.389	7.389	(0.940)	89071	10.0000	10
	43 2-Nitroaniline	65	7.465	7.465	(0.950)	23115	10.0000	9(a)
	44 Dimethylphthalate	163	7.606	7.612	(0.968)	129370	10.0000	10
	45 2,6-Dinitrotoluene	165	7.659	7.665	(0.975)	30191	10.0000	10
	46 Acenaphthylene	152	7.736	7.741	(0.984)	146363	10.0000	10
	47 3-Nitroaniline	138	7.806	7.806	(0.993)	24809	10.0000	10(a)
*	48 Acenaphthene-d10	164	7.859	7.859	(1.000)	399036	40.0000	
	49 Acenaphthene	153	7.882	7.888	(1.003)	100078	10.0000	10
	50 2,4-Dinitrophenol	184	7.888	7.888	(1.004)	23739	10.0000	9(a)
	51 4-Nitrophenol	109	7.929	7.935	(1.009)	31904	10.0000	9(a)
	53 2,4-Dinitrotoluene	165	7.994	8.000	(1.017)	42226	10.0000	10
	52 Dibenzofuran	168	8.023	8.029	(1.021)	160771	10.0000	10
	110 2,3,4,6-Tetrachlorophenol	232	8.123	8.129	(1.034)	51677	10.0000	10
	54 Diethylphthalate	149	8.194	8.200	(1.043)	118532	10.0000	10
	56 4-Chlorophenyl-phenylether	204	8.300	8.300	(1.056)	86344	10.0000	9(a)
	55 Fluorene	166	8.311	8.311	(1.058)	134851	10.0000	9(a)
	57 4-Nitroaniline	138	8.311	8.323	(1.058)	31201	10.0000	10(a)
	58 4,6-Dinitro-2-methylphenol	198	8.341	8.347	(0.916)	33481	10.0000	9(a)
	59 N-Nitrosodiphenylamine	169	8.394	8.400	(0.922)	124312	10.0000	10
	97 Azobenzene	77	8.435	8.435	(0.926)	134599	10.0000	10
$	60 2,4,6-Tribromophenol	330	8.511	8.517	(0.935)	33281	10.0000	10
	61 4-Bromophenyl-phenylether	248	8.711	8.711	(0.957)	62775	10.0000	10
	62 Hexachlorobenzene	284	8.781	8.781	(0.965)	66810	10.0000	10
	100 Atrazine	200	8.828	8.834	(0.970)	31101	10.0000	13
	63 Pentachlorophenol	266	8.940	8.940	(0.982)	52694	10.0000	10(Ta)
	111 Pentachloronitrobenzene	237	8.952	8.958	(0.983)	31519	10.0000	9(a)
*	64 Phenanthrene-d10	188	9.105	9.105	(1.000)	1057835	40.0000	

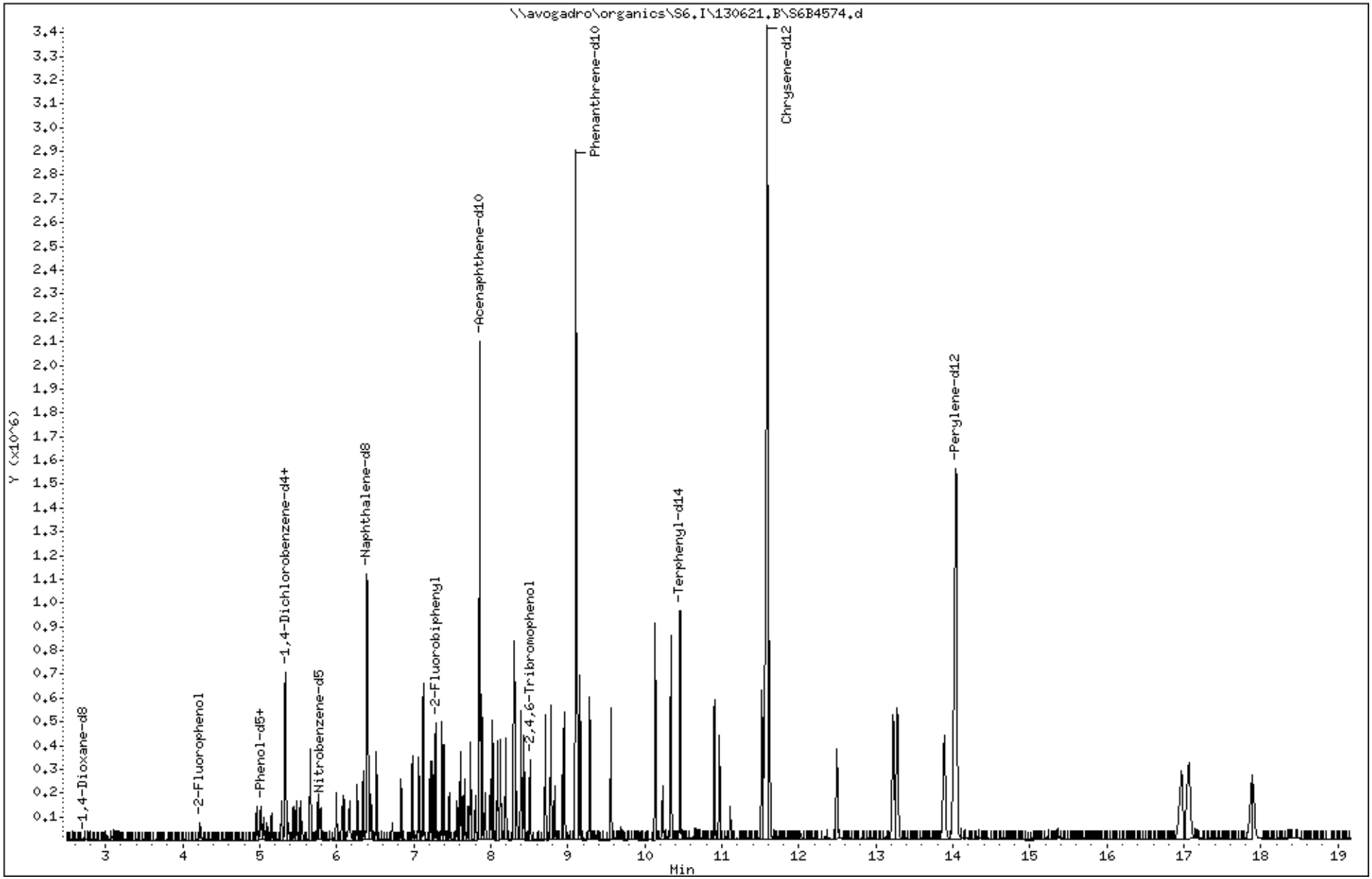
Data File: \\avogadro\organics\S6.I\130621.B\S6B4574.d
Report Date: 24-Jun-2013 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.122	9.122	(1.002)	231234	10.0000	10
66	Anthracene	178	9.163	9.163	(1.006)	225224	10.0000	9(a)
67	Carbazole	167	9.287	9.293	(1.020)	212449	10.0000	10
68	Di-n-butylphthalate	149	9.563	9.563	(1.050)	215762	10.0000	9(a)
69	Fluoranthene	202	10.139	10.145	(1.114)	335590	10.0000	10
70	Benzidine	184	10.233	10.239	(0.883)	78985	10.0000	10(a)
71	Pyrene	202	10.338	10.344	(0.892)	344659	10.0000	10
$ 72	Terphenyl-d14	244	10.462	10.462	(0.903)	268419	10.0000	10
73	Butylbenzylphthalate	149	10.908	10.908	(0.941)	111390	10.0000	10
74	3,3'-Dichlorobenzidine	252	11.519	11.525	(0.994)	159814	10.0000	10
78	bis(2-Ethylhexyl)phthalate	149	11.549	11.555	(0.996)	159954	10.0000	10
75	Benzo(a)anthracene	228	11.566	11.572	(0.998)	426851	10.0000	10
* 76	Chrysene-d12	240	11.590	11.590	(1.000)	1710608	40.0000	
77	Chrysene	228	11.619	11.625	(1.003)	377437	10.0000	10
79	Di-n-octylphthalate	149	12.489	12.501	(0.889)	264452	10.0000	10
80	Benzo(b)fluoranthene	252	13.223	13.241	(0.941)	419061	10.0000	10
81	Benzo(k)fluoranthene	252	13.276	13.294	(0.945)	403842	10.0000	10
82	Benzo(a)pyrene	252	13.887	13.911	(0.989)	400575	10.0000	10
* 83	Perylene-d12	264	14.046	14.040	(1.000)	1683205	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	16.972	17.001	(1.208)	417248	10.0000	9(a)
85	Dibenzo(a,h)anthracene	278	17.066	17.101	(1.215)	411864	10.0000	10
86	Benzo(g,h,i)perylene	276	17.894	17.936	(1.274)	436667	10.0000	10

QC Flag Legend

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

Data File: \\avogadro\organics\S6.I\130621.B\S6B4574.d
Date : 21-JUN-2013 16:38
Client ID: SSTD0106W
Instrument: S6.i
Sample Info: SSTD0106W,SSTD0106W
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130621.B\S6B4575.d
Report Date: 24-Jun-2013 12:02

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130621.B\S6B4575.d
Lab Smp Id: SSTD0406W Client Smp ID: SSTD0406W
Inj Date : 21-JUN-2013 17:03
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0406W,SSTD0406W
Misc Info : 1,4
Comment   :
Method   : \\avogadro\organics\S6.I\130621.B\S6_8270C_N.m
Meth Date : 24-Jun-2013 12:00 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.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: TARGET113

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	2.700	2.700	(0.506)	14752	40.0000	43
	108	1,4-Dioxane	58	2.724	2.730	(0.511)	6480	40.0000	38(Q)
	1	N-Nitrosodimethylamine	74	3.012	3.012	(0.565)	35208	40.0000	39
	2	Pyridine	79	3.053	3.065	(0.573)	51897	40.0000	38
$	3	2-Fluorophenol	112	4.228	4.228	(0.793)	76381	40.0000	39
	101	Benzaldehyde	77	4.962	4.962	(0.931)	68060	40.0000	34
$	5	Phenol-d5	99	5.015	5.009	(0.941)	112428	40.0000	39
	6	Phenol	94	5.027	5.021	(0.943)	113871	40.0000	38
	7	Aniline	66	5.027	5.021	(0.943)	88056	40.0000	38
	8	bis(2-Chloroethyl)Ether	63	5.103	5.097	(0.957)	43343	40.0000	39(Q)
	10	2-Chlorophenol	128	5.156	5.156	(0.967)	103883	40.0000	40
	11	1,3-Dichlorobenzene	146	5.285	5.285	(0.991)	122809	40.0000	40
*	12	1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	97376	40.0000	
	13	1,4-Dichlorobenzene	146	5.344	5.344	(1.002)	124417	40.0000	39
	117	2-Ethyl-1-hexanol	57	5.379	5.374	(1.009)	38721	40.0000	37
	15	Benzyl Alcohol	108	5.444	5.438	(1.021)	71239	40.0000	38
	16	1,2-Dichlorobenzene	146	5.474	5.474	(1.026)	122478	40.0000	40
	17	2-Methylphenol	108	5.532	5.526	(1.037)	96819	40.0000	40
	18	2,2'-oxybis(1-Chloropropane)	45	5.550	5.544	(1.041)	33956	40.0000	38(Q)
	99	Acetophenone	105	5.662	5.662	(1.062)	181544	40.0000	38

Data File: \\avogadro\organics\S6.I\130621.B\S6B4575.d
Report Date: 24-Jun-2013 12:02

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.662	5.656	(1.062)	83499	40.0000	40
	20 4-Methylphenol	108	5.662	5.656	(1.062)	114090	40.0000	39
	21 Hexachloroethane	117	5.761	5.761	(1.080)	48905	40.0000	41(Q)
$	22 Nitrobenzene-d5	82	5.791	5.785	(0.905)	147182	40.0000	39
	23 Nitrobenzene	77	5.808	5.803	(0.908)	134202	40.0000	38
	24 Isophorone	82	6.002	6.002	(0.938)	214517	40.0000	38
	25 2-Nitrophenol	139	6.073	6.073	(0.949)	74801	40.0000	40
	26 2,4-Dimethylphenol	107	6.096	6.096	(0.953)	145031	40.0000	42
	27 bis(2-Chloroethoxy)methane	93	6.173	6.173	(0.965)	110230	40.0000	40
	28 Benzoic Acid	105	6.202	6.179	(0.970)	91954	40.0000	32
	29 2,4-Dichlorophenol	162	6.273	6.267	(0.981)	146299	40.0000	39
	30 1,2,4-Trichlorobenzene	180	6.343	6.343	(0.992)	186820	40.0000	40
*	31 Naphthalene-d8	136	6.396	6.396	(1.000)	435510	40.0000	
	32 Naphthalene	128	6.414	6.408	(1.003)	376266	40.0000	39
	115 alpha-Terpineol	59	6.408	6.408	(1.002)	52343	40.0000	39
	33 4-Chloroaniline	127	6.449	6.443	(1.008)	157707	40.0000	40
	34 Hexachlorobutadiene	225	6.513	6.513	(1.018)	138059	40.0000	39
	102 Caprolactam	113	6.760	6.743	(1.057)	46987	40.0000	39
	35 4-Chloro-3-Methylphenol	107	6.848	6.843	(1.071)	134039	40.0000	39
	36 2-Methylnaphthalene	142	6.984	6.984	(1.092)	310574	40.0000	38
	114 1-Methylnaphthalene	142	7.072	7.066	(1.106)	292016	40.0000	39
	38 Hexachlorocyclopentadiene	237	7.125	7.125	(0.907)	147044	40.0000	34
	112 1,2,4,5-Tetrachlorobenzene	216	7.130	7.125	(0.907)	282373	40.0000	38
	39 2,4,6-Trichlorophenol	196	7.219	7.213	(0.919)	178124	40.0000	38
	40 2,4,5-Trichlorophenol	196	7.248	7.248	(0.922)	191736	40.0000	38
$	41 2-Fluorobiphenyl	172	7.283	7.283	(0.927)	510499	40.0000	37
	98 1,1'-Biphenyl	154	7.371	7.371	(0.938)	488409	40.0000	37
	42 2-Chloronaphthalene	162	7.395	7.389	(0.941)	360789	40.0000	37
	43 2-Nitroaniline	65	7.471	7.465	(0.951)	95011	40.0000	37
	44 Dimethylphthalate	163	7.618	7.612	(0.969)	523337	40.0000	38
	45 2,6-Dinitrotoluene	165	7.671	7.665	(0.976)	116369	40.0000	36
	46 Acenaphthylene	152	7.741	7.741	(0.985)	612448	40.0000	38
	47 3-Nitroaniline	138	7.812	7.806	(0.994)	97193	40.0000	38
*	48 Acenaphthene-d10	164	7.859	7.859	(1.000)	419111	40.0000	
	49 Acenaphthene	153	7.888	7.888	(1.004)	420134	40.0000	38
	50 2,4-Dinitrophenol	184	7.894	7.888	(1.004)	108214	40.0000	38
	51 4-Nitrophenol	109	7.941	7.935	(1.010)	130902	40.0000	37
	53 2,4-Dinitrotoluene	165	8.006	8.000	(1.019)	171334	40.0000	37(Q)
	52 Dibenzofuran	168	8.029	8.029	(1.022)	651331	40.0000	38
	110 2,3,4,6-Tetrachlorophenol	232	8.129	8.129	(1.034)	200209	40.0000	36
	54 Diethylphthalate	149	8.200	8.200	(1.043)	485926	40.0000	37
	56 4-Chlorophenyl-phenylether	204	8.306	8.300	(1.057)	365895	40.0000	37
	55 Fluorene	166	8.317	8.311	(1.058)	571176	40.0000	38
	57 4-Nitroaniline	138	8.329	8.323	(1.060)	119071	40.0000	38
	58 4,6-Dinitro-2-methylphenol	198	8.353	8.347	(0.917)	153707	40.0000	40
	59 N-Nitrosodiphenylamine	169	8.405	8.400	(0.923)	494861	40.0000	38
	97 Azobenzene	77	8.441	8.435	(0.927)	533496	40.0000	39
$	60 2,4,6-Tribromophenol	330	8.517	8.517	(0.935)	133590	40.0000	38
	61 4-Bromophenyl-phenylether	248	8.717	8.711	(0.957)	246565	40.0000	38
	62 Hexachlorobenzene	284	8.787	8.781	(0.965)	266582	40.0000	38
	100 Atrazine	200	8.840	8.834	(0.971)	108201	40.0000	45
	63 Pentachlorophenol	266	8.940	8.940	(0.982)	205401	40.0000	37(Q)
	111 Pentachloronitrobenzene	237	8.958	8.958	(0.984)	133688	40.0000	38
*	64 Phenanthrene-d10	188	9.105	9.105	(1.000)	1085267	40.0000	

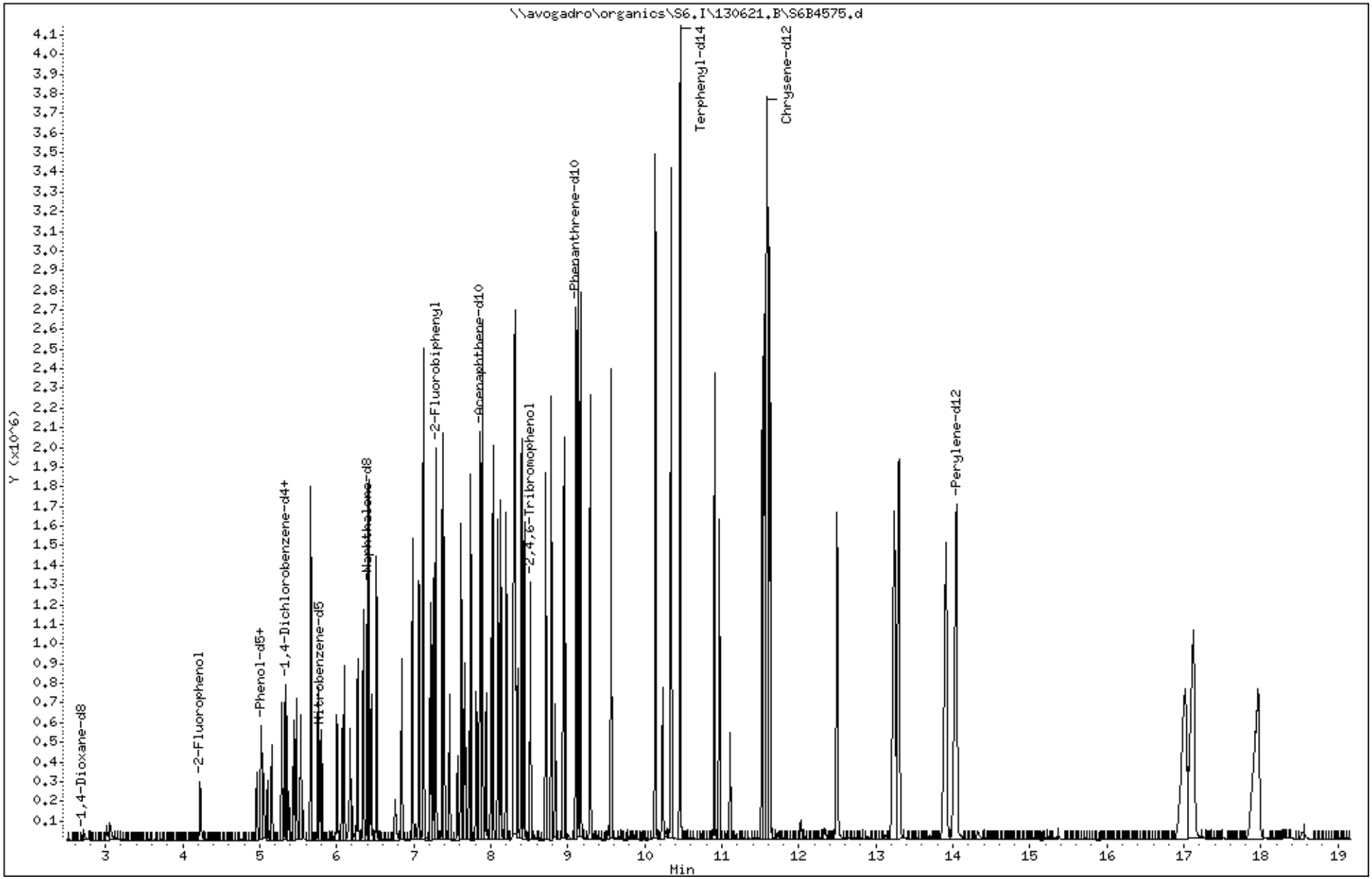
Data File: \\avogadro\organics\S6.I\130621.B\S6B4575.d
Report Date: 24-Jun-2013 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.128	9.122	(1.003)	950042	40.0000	39
66	Anthracene	178	9.169	9.163	(1.007)	949974	40.0000	38
67	Carbazole	167	9.293	9.293	(1.021)	838613	40.0000	38
68	Di-n-butylphthalate	149	9.563	9.563	(1.050)	898304	40.0000	38
69	Fluoranthene	202	10.139	10.145	(1.114)	1350145	40.0000	38
70	Benzidine	184	10.233	10.239	(0.883)	290475	40.0000	37
71	Pyrene	202	10.344	10.344	(0.893)	1378480	40.0000	38
$ 72	Terphenyl-d14	244	10.462	10.462	(0.903)	1117793	40.0000	38
73	Butylbenzylphthalate	149	10.903	10.908	(0.941)	444764	40.0000	38
74	3,3'-Dichlorobenzidine	252	11.525	11.525	(0.994)	624046	40.0000	38
78	bis(2-Ethylhexyl)phthalate	149	11.549	11.555	(0.996)	668924	40.0000	38
75	Benzo(a)anthracene	228	11.566	11.572	(0.998)	1721154	40.0000	39
* 76	Chrysene-d12	240	11.590	11.590	(1.000)	1799443	40.0000	
77	Chrysene	228	11.625	11.625	(1.003)	1505392	40.0000	38
79	Di-n-octylphthalate	149	12.495	12.501	(0.890)	1077731	40.0000	39
80	Benzo(b)fluoranthene	252	13.241	13.241	(0.943)	1683734	40.0000	39
81	Benzo(k)fluoranthene	252	13.300	13.294	(0.947)	1659976	40.0000	39
82	Benzo(a)pyrene	252	13.911	13.911	(0.990)	1602629	40.0000	39
* 83	Perylene-d12	264	14.046	14.040	(1.000)	1736781	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	17.019	17.001	(1.212)	1703316	40.0000	37
85	Dibenzo(a,h)anthracene	278	17.125	17.101	(1.219)	1638476	40.0000	39
86	Benzo(g,h,i)perylene	276	17.965	17.936	(1.279)	1647856	40.0000	38

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\S6.I\130621.B\S6B4575.d
Date : 21-JUN-2013 17:03
Client ID: SSTD0406W
Instrument: S6.i
Sample Info: SSTD0406W,SSTD0406W
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130621.B\S6B4576.d
Report Date: 24-Jun-2013 12:02

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130621.B\S6B4576.d
Lab Smp Id: SSTD0806W Client Smp ID: SSTD0806W
Inj Date : 21-JUN-2013 17:28
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0806W,SSTD0806W
Misc Info : 1,6
Comment   :
Method   : \\avogadro\organics\S6.I\130621.B\S6_8270C_N.m
Meth Date : 24-Jun-2013 12:00 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.d
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109 1,4-Dioxane-d8	96	2.700	2.700	(0.506)	32889	80.0000	82
	108 1,4-Dioxane	58	2.724	2.730	(0.511)	15148	80.0000	77(Q)
	1 N-Nitrosodimethylamine	74	3.017	3.012	(0.566)	82977	80.0000	80
	2 Pyridine	79	3.053	3.065	(0.573)	135380	80.0000	85(A)
$	3 2-Fluorophenol	112	4.234	4.228	(0.794)	190806	80.0000	83
	101 Benzaldehyde	77	4.962	4.962	(0.931)	126466	80.0000	54
$	5 Phenol-d5	99	5.027	5.009	(0.943)	267259	80.0000	79
	6 Phenol	94	5.039	5.021	(0.945)	300981	80.0000	87(A)
	7 Aniline	66	5.039	5.021	(0.945)	237823	80.0000	89(AQ)
	8 bis(2-Chloroethyl)Ether	63	5.109	5.097	(0.958)	97310	80.0000	76(Q)
	10 2-Chlorophenol	128	5.162	5.156	(0.968)	237578	80.0000	79
	11 1,3-Dichlorobenzene	146	5.291	5.285	(0.992)	285192	80.0000	80
*	12 1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	113141	40.0000	(Q)
	13 1,4-Dichlorobenzene	146	5.350	5.344	(1.003)	294325	80.0000	80
	117 2-Ethyl-1-hexanol	57	5.385	5.374	(1.010)	95405	80.0000	78
	15 Benzyl Alcohol	108	5.450	5.438	(1.022)	169641	80.0000	78
	16 1,2-Dichlorobenzene	146	5.479	5.474	(1.028)	282400	80.0000	79
	17 2-Methylphenol	108	5.538	5.526	(1.039)	228117	80.0000	80(A)
	18 2,2'-oxybis(1-Chloropropane)	45	5.556	5.544	(1.042)	74593	80.0000	72(Q)
	99 Acetophenone	105	5.673	5.662	(1.064)	476719	80.0000	87(A)

Data File: \\avogadro\organics\S6.I\130621.B\S6B4576.d
Report Date: 24-Jun-2013 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
19	N-Nitroso-di-n-propylamine	70	5.673	5.656	(1.064)	207234	80.0000	86(A)
20	4-Methylphenol	108	5.673	5.656	(1.064)	300700	80.0000	89(A)
21	Hexachloroethane	117	5.761	5.761	(1.080)	116660	80.0000	84(AQ)
$ 22	Nitrobenzene-d5	82	5.797	5.785	(0.906)	327880	80.0000	68
23	Nitrobenzene	77	5.814	5.803	(0.909)	321632	80.0000	72
24	Isophorone	82	6.014	6.002	(0.940)	489507	80.0000	67
25	2-Nitrophenol	139	6.079	6.073	(0.950)	169486	80.0000	70
26	2,4-Dimethylphenol	107	6.108	6.096	(0.955)	336414	80.0000	76
27	bis(2-Chloroethoxy)methane	93	6.178	6.173	(0.966)	257808	80.0000	72
28	Benzoic Acid	105	6.255	6.179	(0.978)	257818	80.0000	71(QH)
29	2,4-Dichlorophenol	162	6.278	6.267	(0.982)	355426	80.0000	74
30	1,2,4-Trichlorobenzene	180	6.349	6.343	(0.993)	426208	80.0000	71
* 31	Naphthalene-d8	136	6.396	6.396	(1.000)	559407	40.0000	
32	Naphthalene	128	6.419	6.408	(1.004)	947050	80.0000	77
115	alpha-Terpineol	59	6.419	6.408	(1.004)	131449	80.0000	76(Q)
33	4-Chloroaniline	127	6.455	6.443	(1.009)	348587	80.0000	69
34	Hexachlorobutadiene	225	6.519	6.513	(1.019)	317619	80.0000	70
102	Caprolactam	113	6.795	6.743	(1.062)	81989	80.0000	54
35	4-Chloro-3-Methylphenol	107	6.860	6.843	(1.073)	302143	80.0000	69
36	2-Methylnaphthalene	142	6.989	6.984	(1.093)	739087	80.0000	71
114	1-Methylnaphthalene	142	7.072	7.066	(1.106)	688253	80.0000	71
38	Hexachlorocyclopentadiene	237	7.124	7.125	(0.906)	419468	80.0000	90(A)
112	1,2,4,5-Tetrachlorobenzene	216	7.130	7.125	(0.907)	697700	80.0000	87(A)
39	2,4,6-Trichlorophenol	196	7.224	7.213	(0.919)	395416	80.0000	79
40	2,4,5-Trichlorophenol	196	7.260	7.248	(0.923)	442815	80.0000	82(A)
$ 41	2-Fluorobiphenyl	172	7.289	7.283	(0.927)	1219629	80.0000	83
98	1,1'-Biphenyl	154	7.377	7.371	(0.938)	1178047	80.0000	84(A)
42	2-Chloronaphthalene	162	7.401	7.389	(0.941)	871056	80.0000	83(A)
43	2-Nitroaniline	65	7.477	7.465	(0.951)	212852	80.0000	77
44	Dimethylphthalate	163	7.636	7.612	(0.971)	1184472	80.0000	80
45	2,6-Dinitrotoluene	165	7.683	7.665	(0.977)	267670	80.0000	78
46	Acenaphthylene	152	7.747	7.741	(0.985)	1467697	80.0000	85(A)
47	3-Nitroaniline	138	7.829	7.806	(0.996)	213655	80.0000	77
* 48	Acenaphthene-d10	164	7.865	7.859	(1.000)	450037	40.0000	
49	Acenaphthene	153	7.894	7.888	(1.004)	1001033	80.0000	85(A)
50	2,4-Dinitrophenol	184	7.906	7.888	(1.005)	256384	80.0000	83(A)
51	4-Nitrophenol	109	7.959	7.935	(1.012)	294194	80.0000	77
53	2,4-Dinitrotoluene	165	8.018	8.000	(1.019)	385323	80.0000	78(Q)
52	Dibenzofuran	168	8.035	8.029	(1.022)	1509918	80.0000	82(A)
110	2,3,4,6-Tetrachlorophenol	232	8.135	8.129	(1.034)	462080	80.0000	78
54	Diethylphthalate	149	8.211	8.200	(1.044)	1150748	80.0000	82(A)
56	4-Chlorophenyl-phenylether	204	8.311	8.300	(1.057)	870272	80.0000	83(A)
55	Fluorene	166	8.323	8.311	(1.058)	1373236	80.0000	86(A)
57	4-Nitroaniline	138	8.352	8.323	(1.062)	251083	80.0000	74
58	4,6-Dinitro-2-methylphenol	198	8.364	8.347	(0.918)	326846	80.0000	79
59	N-Nitrosodiphenylamine	169	8.411	8.400	(0.923)	1161638	80.0000	83(A)
97	Azobenzene	77	8.446	8.435	(0.927)	1205776	80.0000	81(A)
$ 60	2,4,6-Tribromophenol	330	8.523	8.517	(0.936)	302794	80.0000	80
61	4-Bromophenyl-phenylether	248	8.723	8.711	(0.957)	561085	80.0000	80(A)
62	Hexachlorobenzene	284	8.793	8.781	(0.965)	598513	80.0000	80
100	Atrazine	200	8.840	8.834	(0.970)	120999	80.0000	46
63	Pentachlorophenol	266	8.946	8.940	(0.982)	477627	80.0000	80(Q)
111	Pentachloronitrobenzene	237	8.963	8.958	(0.984)	312597	80.0000	83(A)
* 64	Phenanthrene-d10	188	9.110	9.105	(1.000)	1175589	40.0000	

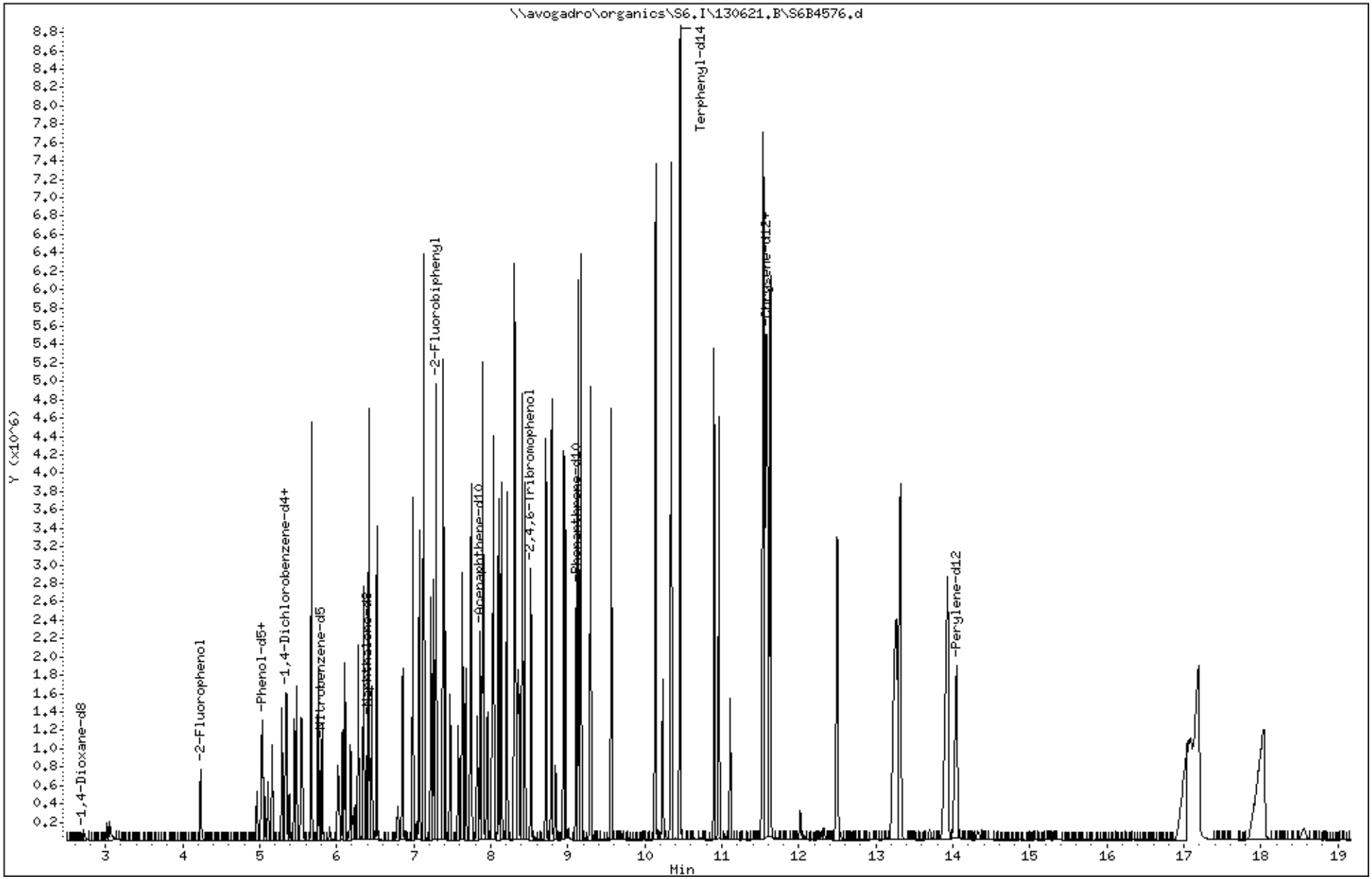
Data File: \\avogadro\organics\S6.I\130621.B\S6B4576.d
Report Date: 24-Jun-2013 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	65 Phenanthrene	178	9.134	9.122	(1.003)	2184031	80.0000	82(A)
	66 Anthracene	178	9.175	9.163	(1.007)	2244949	80.0000	84(A)
	67 Carbazole	167	9.298	9.293	(1.021)	1930521	80.0000	81(A)
	68 Di-n-butylphthalate	149	9.569	9.563	(1.050)	2154359	80.0000	85(A)
	69 Fluoranthene	202	10.144	10.145	(1.114)	3081682	80.0000	80(A)
	70 Benzidine	184	10.233	10.239	(0.883)	713449	80.0000	80(A)
	71 Pyrene	202	10.344	10.344	(0.893)	3194288	80.0000	79
$	72 Terphenyl-d14	244	10.462	10.462	(0.903)	2551298	80.0000	78
	73 Butylbenzylphthalate	149	10.902	10.908	(0.941)	1070170	80.0000	82(A)
	74 3,3'-Dichlorobenzidine	252	11.531	11.525	(0.995)	1430747	80.0000	77
	78 bis(2-Ethylhexyl)phthalate	149	11.543	11.555	(0.996)	1776258	80.0000	90(A)
	75 Benzo(a)anthracene	228	11.572	11.572	(0.998)	3816245	80.0000	76
*	76 Chrysene-d12	240	11.590	11.590	(1.000)	2017368	40.0000	
	77 Chrysene	228	11.631	11.625	(1.004)	3358302	80.0000	76
	79 Di-n-octylphthalate	149	12.501	12.501	(0.890)	2495454	80.0000	83(A)
	80 Benzo(b)fluoranthene	252	13.259	13.241	(0.944)	3902763	80.0000	82(A)
	81 Benzo(k)fluoranthene	252	13.317	13.294	(0.948)	3619023	80.0000	78
	82 Benzo(a)pyrene	252	13.934	13.911	(0.992)	3552075	80.0000	80
*	83 Perylene-d12	264	14.046	14.040	(1.000)	1891360	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	17.060	17.001	(1.215)	4503000	80.0000	90(A)
	85 Dibenzo(a,h)anthracene	278	17.189	17.101	(1.224)	3688485	80.0000	80(A)
	86 Benzo(g,h,i)perylene	276	18.041	17.936	(1.284)	3659997	80.0000	78

QC Flag Legend

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\130621.B\S6B4576.d
Date : 21-JUN-2013 17:28
Client ID: SSTD0806W
Instrument: S6.i
Sample Info: SSTD0806W,SSTD0806W
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130626.B\S6B4661.d
Report Date: 27-Jun-2013 14:54

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626.B\S6B4661.d
Lab Smp Id: SSTD0256Z Client Smp ID: SSTD0256Z
Inj Date : 26-JUN-2013 11:45
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0256Z,SSTD0256Z
Misc Info : 2,3
Comment   :
Method   : \\avogadro\organics\S6.I\130626.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 15:33 pkaczorows Quant Type: ISTD
Cal Date : 26-JUN-2013 14:43 Cal File: S6B4666.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: TARGET113

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	AMOUNTS ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109	1,4-Dioxane-d8	96	2.692	2.692	(0.507)	15162	25.0000	24(H)
	108	1,4-Dioxane	58	2.722	2.722	(0.513)	9094	25.0000	32
	1	N-Nitrosodimethylamine	74	3.010	3.010	(0.567)	48596	25.0000	26
	2	Pyridine	79	3.045	3.045	(0.574)	73123	25.0000	24
$	3	2-Fluorophenol	112	4.214	4.221	(0.794)	132743	25.0000	26
	101	Benzaldehyde	77	4.943	4.943	(0.931)	146914	25.0000	29
$	5	Phenol-d5	99	4.996	4.996	(0.941)	199735	25.0000	26
	6	Phenol	94	5.007	5.008	(0.944)	237832	25.0000	29
	7	Aniline	66	5.007	5.007	(0.944)	155324	25.0000	24
	8	bis(2-Chloroethyl)Ether	63	5.078	5.079	(0.957)	73334	25.0000	28
	10	2-Chlorophenol	128	5.137	5.137	(0.968)	175541	25.0000	26
	11	1,3-Dichlorobenzene	146	5.266	5.267	(0.992)	212965	25.0000	27
*	12	1,4-Dichlorobenzene-d4	152	5.307	5.308	(1.000)	259686	40.0000	
	13	1,4-Dichlorobenzene	146	5.325	5.325	(1.003)	225059	25.0000	27
	117	2-Ethyl-1-hexanol	57	5.354	5.354	(1.009)	76657	25.0000	31
	15	Benzyl Alcohol	108	5.419	5.419	(1.021)	138838	25.0000	28
	16	1,2-Dichlorobenzene	146	5.454	5.455	(1.028)	212701	25.0000	26
	17	2-Methylphenol	108	5.513	5.508	(1.039)	177903	25.0000	27
	18	2,2'-oxybis(1-Chloropropane)	45	5.530	5.531	(1.042)	58647	25.0000	26(Q)
	99	Acetophenone	105	5.642	5.642	(1.063)	349510	25.0000	27

Data File: \\avogadro\organics\S6.I\130626.B\S6B4661.d
Report Date: 27-Jun-2013 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	19 N-Nitroso-di-n-propylamine	70	5.636	5.637	(1.062)	137485	25.0000	26
	20 4-Methylphenol	108	5.636	5.637	(1.062)	218567	25.0000	26
	21 Hexachloroethane	117	5.736	5.737	(1.081)	86741	25.0000	26
$	22 Nitrobenzene-d5	82	5.765	5.766	(0.905)	275968	25.0000	29
	23 Nitrobenzene	77	5.783	5.784	(0.908)	248231	25.0000	27
	24 Isophorone	82	5.983	5.978	(0.939)	438960	25.0000	28
	25 2-Nitrophenol	139	6.047	6.048	(0.949)	141778	25.0000	27(Q)
	26 2,4-Dimethylphenol	107	6.077	6.072	(0.954)	263521	25.0000	29
	27 bis(2-Chloroethoxy)methane	93	6.147	6.148	(0.965)	218406	25.0000	29
	28 Benzoic Acid	105	6.177	6.177	(0.970)	218103	25.0000	27(Q)
	29 2,4-Dichlorophenol	162	6.247	6.248	(0.981)	283921	25.0000	27
	30 1,2,4-Trichlorobenzene	180	6.323	6.318	(0.993)	350168	25.0000	28
*	31 Naphthalene-d8	136	6.370	6.371	(1.000)	1175175	40.0000	
	32 Naphthalene	128	6.388	6.389	(1.003)	705201	25.0000	27
	115 alpha-Terpineol	59	6.388	6.388	(1.003)	107918	25.0000	28
	33 4-Chloroaniline	127	6.423	6.424	(1.008)	296473	25.0000	28
	34 Hexachlorobutadiene	225	6.494	6.489	(1.019)	264117	25.0000	27
	102 Caprolactam	113	6.729	6.729	(1.056)	84448	25.0000	27
	35 4-Chloro-3-Methylphenol	107	6.823	6.824	(1.071)	268019	25.0000	27
	36 2-Methylnaphthalene	142	6.964	6.959	(1.093)	614494	25.0000	28
	114 1-Methylnaphthalene	142	7.046	7.046	(1.106)	572837	25.0000	28
	38 Hexachlorocyclopentadiene	237	7.099	7.100	(0.906)	299830	25.0000	30
	112 1,2,4,5-Tetrachlorobenzene	216	7.105	7.105	(0.906)	569025	25.0000	29
	39 2,4,6-Trichlorophenol	196	7.193	7.194	(0.918)	357010	25.0000	28
	40 2,4,5-Trichlorophenol	196	7.228	7.223	(0.922)	386402	25.0000	28
$	41 2-Fluorobiphenyl	172	7.264	7.258	(0.927)	1030006	25.0000	30
	98 1,1'-Biphenyl	154	7.352	7.347	(0.938)	962733	25.0000	28
	42 2-Chloronaphthalene	162	7.369	7.370	(0.940)	730294	25.0000	29
	43 2-Nitroaniline	65	7.446	7.447	(0.950)	190260	25.0000	28
	44 Dimethylphthalate	163	7.598	7.593	(0.969)	1068328	25.0000	29
	45 2,6-Dinitrotoluene	165	7.645	7.640	(0.975)	250895	25.0000	29
	46 Acenaphthylene	152	7.722	7.717	(0.985)	1201214	25.0000	29
	47 3-Nitroaniline	138	7.792	7.787	(0.994)	196418	25.0000	28
*	48 Acenaphthene-d10	164	7.839	7.834	(1.000)	1105697	40.0000	
	49 Acenaphthene	153	7.869	7.864	(1.004)	821708	25.0000	28
	50 2,4-Dinitrophenol	184	7.875	7.870	(1.004)	164808	25.0000	24(Q)
	51 4-Nitrophenol	109	7.922	7.917	(1.010)	273005	25.0000	28
	53 2,4-Dinitrotoluene	165	7.986	7.981	(1.019)	351636	25.0000	28
	52 Dibenzofuran	168	8.010	8.005	(1.022)	1285108	25.0000	28
	110 2,3,4,6-Tetrachlorophenol	232	8.110	8.110	(1.034)	422047	25.0000	28
	54 Diethylphthalate	149	8.180	8.175	(1.043)	1031043	25.0000	28
	56 4-Chlorophenyl-phenylether	204	8.286	8.281	(1.057)	754808	25.0000	28
	55 Fluorene	166	8.298	8.293	(1.058)	1120249	25.0000	28
	57 4-Nitroaniline	138	8.309	8.298	(1.060)	235199	25.0000	28
	58 4,6-Dinitro-2-methylphenol	198	8.333	8.322	(0.915)	263726	25.0000	25
	59 N-Nitrosodiphenylamine	169	8.386	8.381	(0.921)	1021554	25.0000	28
	97 Azobenzene	77	8.421	8.421	(0.925)	1082676	25.0000	29
$	60 2,4,6-Tribromophenol	330	8.503	8.498	(0.934)	277268	25.0000	27
	61 4-Bromophenyl-phenylether	248	8.703	8.698	(0.956)	515056	25.0000	28
	62 Hexachlorobenzene	284	8.774	8.769	(0.964)	547933	25.0000	28
	100 Atrazine	200	8.826	8.826	(0.970)	189235	25.0000	29
	63 Pentachlorophenol	266	8.932	8.927	(0.981)	405188	25.0000	26
	111 Pentachloronitrobenzene	237	8.950	8.950	(0.983)	289276	25.0000	28
*	64 Phenanthrene-d10	188	9.103	9.098	(1.000)	2993799	40.0000	

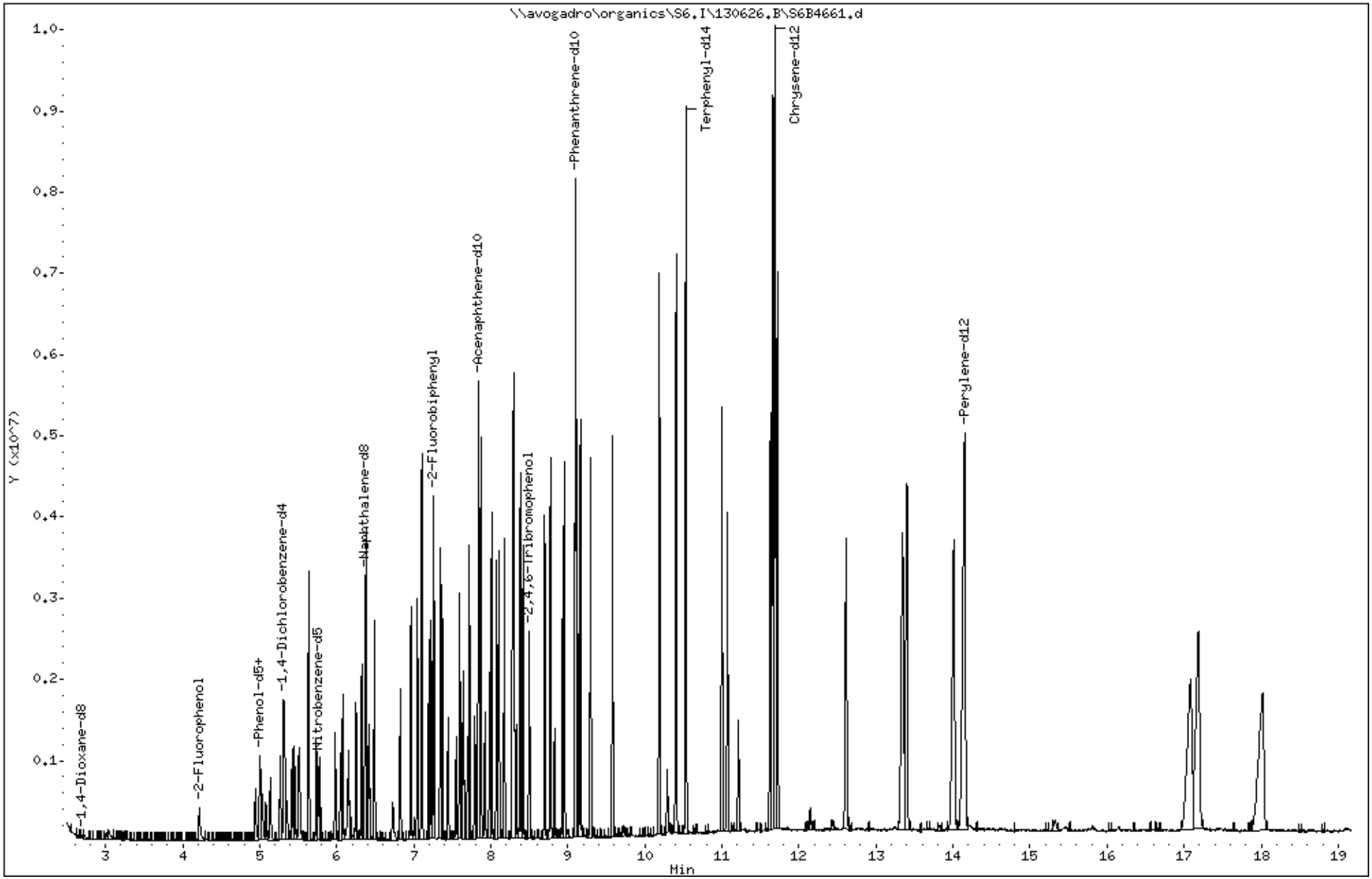
Data File: \\avogadro\organics\S6.I\130626.B\S6B4661.d
Report Date: 27-Jun-2013 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	65 Phenanthrene	178	9.120	9.115	(1.002)	1860905	25.0000	28
	66 Anthracene	178	9.167	9.156	(1.007)	1955427	25.0000	29
	67 Carbazole	167	9.296	9.286	(1.021)	1639151	25.0000	28
	68 Di-n-butylphthalate	149	9.579	9.568	(1.052)	1852176	25.0000	28
	69 Fluoranthene	202	10.190	10.173	(1.119)	2714897	25.0000	28
	70 Benzidine	184	10.289	10.289	(0.880)	329651	25.0000	22(H)
	71 Pyrene	202	10.407	10.384	(0.890)	2804823	25.0000	30
$	72 Terphenyl-d14	244	10.530	10.514	(0.901)	2270921	25.0000	30(H)
	73 Butylbenzylphthalate	149	11.000	10.978	(0.941)	978495	25.0000	29
	74 3,3'-Dichlorobenzidine	252	11.629	11.601	(0.994)	1332324	25.0000	29(H)
	78 bis(2-Ethylhexyl)phthalate	149	11.658	11.636	(0.997)	1510811	25.0000	28
	75 Benzo(a)anthracene	228	11.670	11.642	(0.998)	3598000	25.0000	29
*	76 Chrysene-d12	240	11.694	11.665	(1.000)	4760085	40.0000	
	77 Chrysene	228	11.723	11.695	(1.002)	3051946	25.0000	30
	79 Di-n-octylphthalate	149	12.616	12.588	(0.892)	2420621	25.0000	29
	80 Benzo(b)fluoranthene	252	13.345	13.363	(0.943)	3501369	25.0000	28
	81 Benzo(k)fluoranthene	252	13.398	13.363	(0.947)	3457954	25.0000	30
	82 Benzo(a)pyrene	252	14.009	13.974	(0.990)	3431820	25.0000	29
*	83 Perylene-d12	264	14.150	14.156	(1.000)	4885384	40.0000	(Q)
	84 Indeno(1,2,3-cd)pyrene	276	17.082	17.041	(1.207)	4357836	25.0000	31
	85 Dibenzo(a,h)anthracene	278	17.187	17.218	(1.215)	3477966	25.0000	28
	86 Benzo(g,h,i)perylene	276	18.022	18.046	(1.274)	3556201	25.0000	28(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\S6.I\130626.B\S6B4661.d
Date : 26-JUN-2013 11:45
Client ID: SSTD0256Z
Instrument: S6.i
Sample Info: SSTD0256Z,SSTD0256Z
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130626.B\S6B4662.d
Report Date: 27-Jun-2013 14:54

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626.B\S6B4662.d
Lab Smp Id: SSTD0806Z Client Smp ID: SSTD0806Z
Inj Date : 26-JUN-2013 13:00
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0806Z,SSTD0806Z
Misc Info : 1,6
Comment   :
Method   : \\avogadro\organics\S6.I\130626.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 15:33 pkaczorows Quant Type: ISTD
Cal Date : 26-JUN-2013 14:43 Cal File: S6B4666.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: TARGET113

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	AMOUNTS ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109	1,4-Dioxane-d8	96	2.687	2.692	(0.506)	82988	80.0000	110
	108	1,4-Dioxane	58	2.711	2.722	(0.510)	26681	80.0000	76(Q)
	1	N-Nitrosodimethylamine	74	3.005	3.010	(0.565)	198565	80.0000	85(A)
	2	Pyridine	79	3.034	3.045	(0.571)	343770	80.0000	93(A)
$	3	2-Fluorophenol	112	4.221	4.221	(0.794)	529710	80.0000	84
	101	Benzaldehyde	77	4.943	4.943	(0.930)	262177	80.0000	42
$	5	Phenol-d5	99	5.014	4.996	(0.944)	761746	80.0000	83
	6	Phenol	94	5.020	5.008	(0.945)	838370	80.0000	84(AQ)
	7	Aniline	66	5.020	5.007	(0.945)	923931	80.0000	120(AQ)
	8	bis(2-Chloroethyl)Ether	63	5.090	5.079	(0.958)	244352	80.0000	77
	10	2-Chlorophenol	128	5.143	5.137	(0.968)	668772	80.0000	81(A)
	11	1,3-Dichlorobenzene	146	5.267	5.267	(0.991)	764959	80.0000	79
*	12	1,4-Dichlorobenzene-d4	152	5.314	5.308	(1.000)	317044	40.0000	
	13	1,4-Dichlorobenzene	146	5.325	5.325	(1.002)	826672	80.0000	81(A)
	117	2-Ethyl-1-hexanol	57	5.361	5.354	(1.009)	238510	80.0000	78
	15	Benzyl Alcohol	108	5.431	5.419	(1.022)	500630	80.0000	82(A)
	16	1,2-Dichlorobenzene	146	5.455	5.455	(1.027)	768336	80.0000	78
	17	2-Methylphenol	108	5.519	5.508	(1.039)	676075	80.0000	83(A)
	18	2,2'-oxybis(1-Chloropropane)	45	5.531	5.531	(1.041)	211705	80.0000	78
	99	Acetophenone	105	5.654	5.642	(1.064)	1398472	80.0000	88(A)

Data File: \\avogadro\organics\S6.I\130626.B\S6B4662.d
Report Date: 27-Jun-2013 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	19 N-Nitroso-di-n-propylamine	70	5.654	5.637	(1.064)	552853	80.0000	85(A)
	20 4-Methylphenol	108	5.649	5.637	(1.063)	907994	80.0000	90(A)
	21 Hexachloroethane	117	5.743	5.737	(1.081)	324270	80.0000	79
$	22 Nitrobenzene-d5	82	5.778	5.766	(0.906)	940129	80.0000	71
	23 Nitrobenzene	77	5.795	5.784	(0.909)	910970	80.0000	70
	24 Isophorone	82	5.995	5.978	(0.940)	1450514	80.0000	67
	25 2-Nitrophenol	139	6.054	6.048	(0.949)	510460	80.0000	69
	26 2,4-Dimethylphenol	107	6.089	6.072	(0.955)	1022728	80.0000	80(A)
	27 bis(2-Chloroethoxy)methane	93	6.160	6.148	(0.966)	746698	80.0000	71
	28 Benzoic Acid	105	6.242	6.177	(0.979)	823235	80.0000	74(Q)
	29 2,4-Dichlorophenol	162	6.260	6.248	(0.982)	1071159	80.0000	74
	30 1,2,4-Trichlorobenzene	180	6.330	6.318	(0.993)	1252883	80.0000	71
*	31 Naphthalene-d8	136	6.377	6.371	(1.000)	1637770	40.0000	
	32 Naphthalene	128	6.395	6.389	(1.003)	2735552	80.0000	76
	115 alpha-Terpineol	59	6.395	6.388	(1.003)	391246	80.0000	72
	33 4-Chloroaniline	127	6.436	6.424	(1.009)	1041989	80.0000	70
	34 Hexachlorobutadiene	225	6.495	6.489	(1.018)	938495	80.0000	70
	102 Caprolactam	113	6.782	6.729	(1.064)	256945	80.0000	58
	35 4-Chloro-3-Methylphenol	107	6.841	6.824	(1.073)	950652	80.0000	70
	36 2-Methylnaphthalene	142	6.971	6.959	(1.093)	2218929	80.0000	72
	114 1-Methylnaphthalene	142	7.053	7.046	(1.106)	2086735	80.0000	72
	38 Hexachlorocyclopentadiene	237	7.106	7.100	(0.905)	1093229	80.0000	89(A)
	112 1,2,4,5-Tetrachlorobenzene	216	7.112	7.105	(0.906)	2025843	80.0000	83(A)
	39 2,4,6-Trichlorophenol	196	7.206	7.194	(0.918)	1286245	80.0000	81(A)
	40 2,4,5-Trichlorophenol	196	7.247	7.223	(0.923)	1374484	80.0000	81(A)
$	41 2-Fluorobiphenyl	172	7.270	7.258	(0.926)	3537061	80.0000	81
	98 1,1'-Biphenyl	154	7.358	7.347	(0.937)	3518985	80.0000	83(A)
	42 2-Chloronaphthalene	162	7.382	7.370	(0.940)	2601740	80.0000	82(A)
	43 2-Nitroaniline	65	7.464	7.447	(0.951)	659646	80.0000	79
	44 Dimethylphthalate	163	7.617	7.593	(0.970)	3683594	80.0000	79
	45 2,6-Dinitrotoluene	165	7.664	7.640	(0.976)	896780	80.0000	83(A)
	46 Acenaphthylene	152	7.734	7.717	(0.985)	4414669	80.0000	84(A)
	47 3-Nitroaniline	138	7.817	7.787	(0.996)	706446	80.0000	80
*	48 Acenaphthene-d10	164	7.852	7.834	(1.000)	1384102	40.0000	
	49 Acenaphthene	153	7.881	7.864	(1.004)	3076771	80.0000	84(A)
	50 2,4-Dinitrophenol	184	7.899	7.870	(1.006)	756416	80.0000	90(AQ)
	51 4-Nitrophenol	109	7.952	7.917	(1.013)	983188	80.0000	80
	53 2,4-Dinitrotoluene	165	8.010	7.981	(1.020)	1309217	80.0000	83(AQ)
	52 Dibenzofuran	168	8.022	8.005	(1.022)	4611910	80.0000	82(A)
	110 2,3,4,6-Tetrachlorophenol	232	8.128	8.110	(1.035)	1530046	80.0000	82(A)
	54 Diethylphthalate	149	8.204	8.175	(1.045)	3662982	80.0000	80(A)
	56 4-Chlorophenyl-phenylether	204	8.304	8.281	(1.058)	2696285	80.0000	81(A)
	55 Fluorene	166	8.316	8.293	(1.059)	4172137	80.0000	83(A)
	57 4-Nitroaniline	138	8.351	8.298	(1.064)	779061	80.0000	75
	58 4,6-Dinitro-2-methylphenol	198	8.363	8.322	(0.916)	1073841	80.0000	82(A)
	59 N-Nitrosodiphenylamine	169	8.410	8.381	(0.921)	3692559	80.0000	80(A)
	97 Azobenzene	77	8.439	8.421	(0.924)	3643750	80.0000	77
$	60 2,4,6-Tribromophenol	330	8.528	8.498	(0.934)	1012307	80.0000	79
	61 4-Bromophenyl-phenylether	248	8.727	8.698	(0.956)	1834169	80.0000	80
	62 Hexachlorobenzene	284	8.798	8.769	(0.963)	1993723	80.0000	80
	100 Atrazine	200	8.857	8.826	(0.970)	385952	80.0000	46
	63 Pentachlorophenol	266	8.968	8.927	(0.982)	1576860	80.0000	81(A)
	111 Pentachloronitrobenzene	237	8.980	8.950	(0.983)	1085056	80.0000	83(A)
*	64 Phenanthrene-d10	188	9.133	9.098	(1.000)	3774262	40.0000	

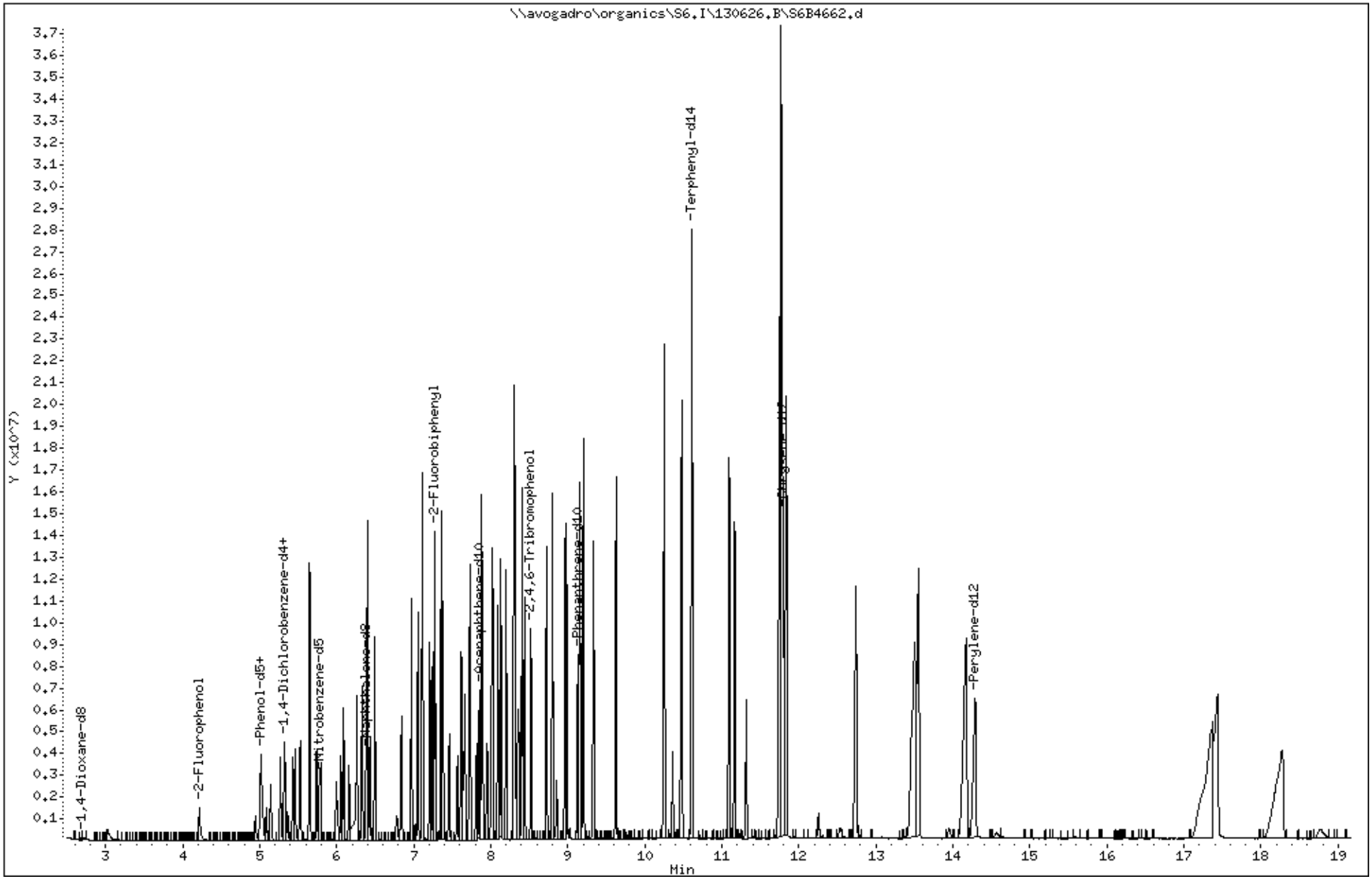
Data File: \\avogadro\organics\S6.I\130626.B\S6B4662.d
Report Date: 27-Jun-2013 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.156	9.115	(1.003)	6452871	80.0000	77
66	Anthracene	178	9.203	9.156	(1.008)	6676546	80.0000	78
67	Carbazole	167	9.338	9.286	(1.023)	5359706	80.0000	74
68	Di-n-butylphthalate	149	9.626	9.568	(1.054)	6530131	80.0000	79
69	Fluoranthene	202	10.255	10.173	(1.123)	9055204	80.0000	75
70	Benzidine	184	10.361	10.289	(0.886)	1613566	80.0000	74(H)
71	Pyrene	202	10.478	10.384	(0.896)	9311825	80.0000	70(H)
$ 72	Terphenyl-d14	244	10.613	10.514	(0.907)	7664620	80.0000	71
73	Butylbenzylphthalate	149	11.095	10.978	(0.948)	3761279	80.0000	78(H)
74	3,3'-Dichlorobenzidine	252	11.747	11.601	(1.004)	4759973	80.0000	73
78	bis(2-Ethylhexyl)phthalate	149	11.771	11.636	(1.006)	6543934	80.0000	84(AH)
75	Benzo(a)anthracene	228	11.777	11.642	(1.007)	13549866	80.0000	76(H)
* 76	Chrysene-d12	240	11.800	11.665	(1.000)	6812272	40.0000	(H)
77	Chrysene	228	11.841	11.695	(1.012)	10270627	80.0000	70(H)
79	Di-n-octylphthalate	149	12.740	12.588	(0.892)	8845929	80.0000	79
80	Benzo(b)fluoranthene	252	13.504	13.363	(0.945)	15165322	80.0000	89(A)
81	Benzo(k)fluoranthene	252	13.557	13.363	(0.949)	10069435	80.0000	64(H)
82	Benzo(a)pyrene	252	14.168	13.974	(0.992)	12133376	80.0000	76
* 83	Perylene-d12	264	14.286	14.156	(1.000)	6606349	40.0000	(Q)
84	Indeno(1,2,3-cd)pyrene	276	17.347	17.041	(1.214)	16100816	80.0000	85(A)
85	Dibenzo(a,h)anthracene	278	17.435	17.218	(1.220)	13074104	80.0000	77
86	Benzo(g,h,i)perylene	276	18.275	18.046	(1.279)	13000521	80.0000	76(Q)

QC Flag Legend

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\130626.B\S6B4662.d
Date : 26-JUN-2013 13:00
Client ID: SSTD0806Z
Instrument: S6.i
Sample Info: SSTD0806Z,SSTD0806Z
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130626.B\S6B4663.d
Report Date: 27-Jun-2013 14:54

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626.B\S6B4663.d
Lab Smp Id: SSTD0056Z Client Smp ID: SSTD0056Z
Inj Date : 26-JUN-2013 13:25
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0056Z,SSTD0056Z
Misc Info : 1,1
Comment   :
Method   : \\avogadro\organics\S6.I\130626.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 15:33 pkaczorows Quant Type: ISTD
Cal Date : 26-JUN-2013 14:43 Cal File: S6B4666.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: TARGET113

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	AMOUNTS ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109	1,4-Dioxane-d8	96	2.699	2.692	(0.509)	2218	5.00000	4(a)
	108	1,4-Dioxane	58	2.717	2.722	(0.512)	1114	5.00000	4(aQ)
	1	N-Nitrosodimethylamine	74	3.010	3.010	(0.567)	7119	5.00000	4(aQ)
	2	Pyridine	79	3.052	3.045	(0.575)	11195	5.00000	4(Ta)
$	3	2-Fluorophenol	112	4.215	4.221	(0.794)	23282	5.00000	5(a)
	101	Benzaldehyde	77	4.943	4.943	(0.931)	25588	5.00000	5(a)
$	5	Phenol-d5	99	4.996	4.996	(0.941)	31416	5.00000	4(a)
	6	Phenol	94	5.002	5.008	(0.942)	29914	5.00000	4(a)
	7	Aniline	66	5.002	5.007	(0.942)	25536	5.00000	4(a)
	8	bis(2-Chloroethyl)Ether	63	5.079	5.079	(0.957)	11854	5.00000	5(aQ)
	10	2-Chlorophenol	128	5.137	5.137	(0.968)	31313	5.00000	5(a)
	11	1,3-Dichlorobenzene	146	5.267	5.267	(0.992)	37709	5.00000	5(a)
*	12	1,4-Dichlorobenzene-d4	152	5.308	5.308	(1.000)	239341	40.0000	
	13	1,4-Dichlorobenzene	146	5.325	5.325	(1.003)	36349	5.00000	5(aQ)
	117	2-Ethyl-1-hexanol	57	5.355	5.354	(1.009)	11232	5.00000	5(a)
	15	Benzyl Alcohol	108	5.413	5.419	(1.020)	22561	5.00000	5(a)
	16	1,2-Dichlorobenzene	146	5.455	5.455	(1.028)	36958	5.00000	5(a)
	17	2-Methylphenol	108	5.508	5.508	(1.038)	31134	5.00000	5(a)
	18	2,2'-oxybis(1-Chloropropane)	45	5.525	5.531	(1.041)	10652	5.00000	5(a)
	99	Acetophenone	105	5.637	5.642	(1.062)	53306	5.00000	4(a)

Data File: \\avogadro\organics\S6.I\130626.B\S6B4663.d
Report Date: 27-Jun-2013 14:54

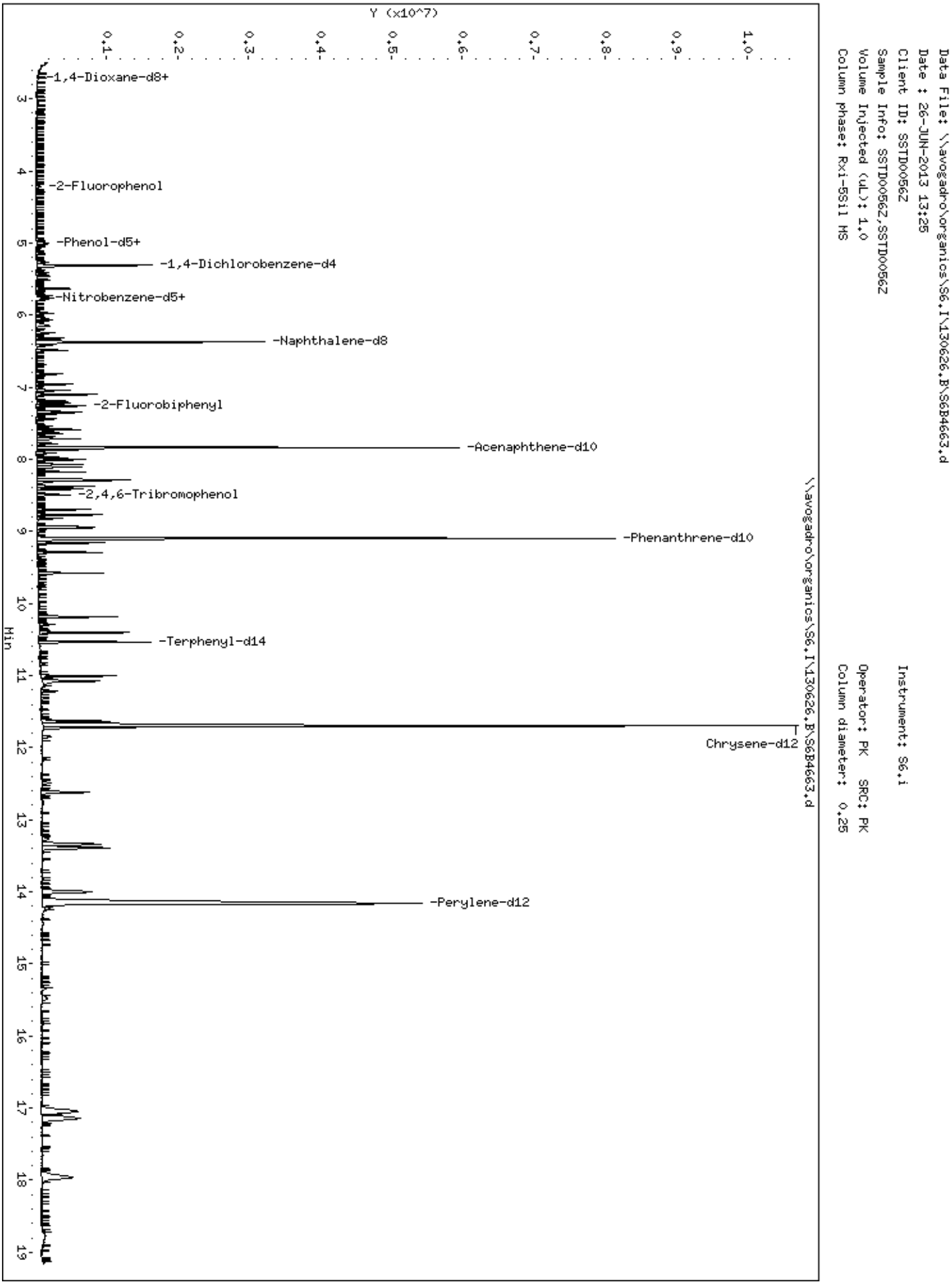
							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.631	5.637	(1.061)	25431	5.00000	5(a)
	20 4-Methylphenol	108	5.631	5.637	(1.061)	32888	5.00000	4(aQ)
	21 Hexachloroethane	117	5.737	5.737	(1.081)	14832	5.00000	5(a)
$	22 Nitrobenzene-d5	82	5.766	5.766	(0.905)	43523	5.00000	5(a)
	23 Nitrobenzene	77	5.778	5.784	(0.907)	47783	5.00000	6(a)
	24 Isophorone	82	5.972	5.978	(0.937)	78743	5.00000	6(a)
	25 2-Nitrophenol	139	6.048	6.048	(0.949)	27090	5.00000	6(a)
	26 2,4-Dimethylphenol	107	6.072	6.072	(0.953)	34071	5.00000	4(a)
	27 bis(2-Chloroethoxy)methane	93	6.148	6.148	(0.965)	35127	5.00000	5(a)
	28 Benzoic Acid	105	6.130	6.177	(0.962)	45133	5.00000	6(a)
	29 2,4-Dichlorophenol	162	6.248	6.248	(0.981)	44701	5.00000	5(a)
	30 1,2,4-Trichlorobenzene	180	6.318	6.318	(0.992)	59667	5.00000	5(a)
*	31 Naphthalene-d8	136	6.371	6.371	(1.000)	1030427	40.0000	
	32 Naphthalene	128	6.389	6.389	(1.003)	117289	5.00000	5(a)
	115 alpha-Terpineol	59	6.383	6.388	(1.002)	19100	5.00000	6(a)
	33 4-Chloroaniline	127	6.424	6.424	(1.008)	51190	5.00000	5(a)
	34 Hexachlorobutadiene	225	6.495	6.489	(1.019)	47344	5.00000	6(a)
	102 Caprolactam	113	6.694	6.729	(1.051)	18576	5.00000	7(a)
	35 4-Chloro-3-Methylphenol	107	6.818	6.824	(1.070)	47764	5.00000	6(a)
	36 2-Methylnaphthalene	142	6.959	6.959	(1.092)	103459	5.00000	5(a)
	114 1-Methylnaphthalene	142	7.041	7.046	(1.105)	94633	5.00000	5(a)
	38 Hexachlorocyclopentadiene	237	7.100	7.100	(0.906)	44423	5.00000	4(a)
	112 1,2,4,5-Tetrachlorobenzene	216	7.106	7.105	(0.906)	92772	5.00000	4(a)
	39 2,4,6-Trichlorophenol	196	7.194	7.194	(0.918)	64263	5.00000	5(a)
	40 2,4,5-Trichlorophenol	196	7.223	7.223	(0.921)	65420	5.00000	4(a)
$	41 2-Fluorobiphenyl	172	7.258	7.258	(0.926)	166475	5.00000	4(a)
	98 1,1'-Biphenyl	154	7.347	7.347	(0.937)	162966	5.00000	4(a)
	42 2-Chloronaphthalene	162	7.370	7.370	(0.940)	123778	5.00000	4(a)
	43 2-Nitroaniline	65	7.441	7.447	(0.949)	32497	5.00000	4(a)
	44 Dimethylphthalate	163	7.587	7.593	(0.968)	191698	5.00000	5(a)
	45 2,6-Dinitrotoluene	165	7.640	7.640	(0.975)	41843	5.00000	4(a)
	46 Acenaphthylene	152	7.717	7.717	(0.984)	195080	5.00000	4(a)
	47 3-Nitroaniline	138	7.787	7.787	(0.993)	37834	5.00000	5(a)
*	48 Acenaphthene-d10	164	7.840	7.834	(1.000)	1192181	40.0000	
	49 Acenaphthene	153	7.864	7.864	(1.003)	141086	5.00000	4(a)
	50 2,4-Dinitrophenol	184	7.869	7.870	(1.004)	19012	5.00000	3(aQ)
	51 4-Nitrophenol	109	7.911	7.917	(1.009)	52226	5.00000	5(a)
	53 2,4-Dinitrotoluene	165	7.975	7.981	(1.017)	64398	5.00000	5(a)
	52 Dibenzofuran	168	8.005	8.005	(1.021)	230370	5.00000	5(a)
	110 2,3,4,6-Tetrachlorophenol	232	8.105	8.110	(1.034)	77061	5.00000	5
	54 Diethylphthalate	149	8.175	8.175	(1.043)	187252	5.00000	5(a)
	56 4-Chlorophenyl-phenylether	204	8.281	8.281	(1.056)	135640	5.00000	5(a)
	55 Fluorene	166	8.293	8.293	(1.058)	191956	5.00000	4(a)
	57 4-Nitroaniline	138	8.293	8.298	(1.058)	44922	5.00000	5(a)
	58 4,6-Dinitro-2-methylphenol	198	8.322	8.322	(0.914)	40549	5.00000	4(a)
	59 N-Nitrosodiphenylamine	169	8.381	8.381	(0.921)	181514	5.00000	4(a)
	97 Azobenzene	77	8.416	8.421	(0.924)	193513	5.00000	5(a)
$	60 2,4,6-Tribromophenol	330	8.498	8.498	(0.934)	55333	5.00000	5(a)
	61 4-Bromophenyl-phenylether	248	8.698	8.698	(0.955)	91008	5.00000	4(a)
	62 Hexachlorobenzene	284	8.768	8.769	(0.963)	103458	5.00000	5(a)
	100 Atrazine	200	8.821	8.826	(0.969)	45733	5.00000	6(a)
	63 Pentachlorophenol	266	8.933	8.927	(0.981)	77357	5.00000	4(a)
	111 Pentachloronitrobenzene	237	8.951	8.950	(0.983)	52509	5.00000	4(a)
*	64 Phenanthrene-d10	188	9.103	9.098	(1.000)	3303396	40.0000	

Data File: \\avogadro\organics\S6.I\130626.B\S6B4663.d
Report Date: 27-Jun-2013 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	65 Phenanthrene	178	9.121	9.115	(1.002)	350903	5.00000	5(a)
	66 Anthracene	178	9.162	9.156	(1.006)	349485	5.00000	5(a)
	67 Carbazole	167	9.291	9.286	(1.021)	313079	5.00000	5(a)
	68 Di-n-butylphthalate	149	9.579	9.568	(1.052)	345006	5.00000	5(a)
	69 Fluoranthene	202	10.190	10.173	(1.119)	507921	5.00000	5(a)
	70 Benzidine	184	10.296	10.289	(0.880)	89049	5.00000	5(a)
	71 Pyrene	202	10.402	10.384	(0.889)	530939	5.00000	5(a)
$	72 Terphenyl-d14	244	10.531	10.514	(0.900)	433916	5.00000	5(a)
	73 Butylbenzylphthalate	149	11.007	10.978	(0.941)	180268	5.00000	5(a)
	74 3,3'-Dichlorobenzidine	252	11.630	11.601	(0.994)	261400	5.00000	5(a)
	78 bis(2-Ethylhexyl)phthalate	149	11.671	11.636	(0.997)	272573	5.00000	4(a)
	75 Benzo(a)anthracene	228	11.677	11.642	(0.998)	706024	5.00000	5(a)
*	76 Chrysene-d12	240	11.700	11.665	(1.000)	5503618	40.0000	
	77 Chrysene	228	11.724	11.695	(1.002)	595971	5.00000	5(a)
	79 Di-n-octylphthalate	149	12.623	12.588	(0.891)	448881	5.00000	5(a)
	80 Benzo(b)fluoranthene	252	13.340	13.363	(0.942)	683510	5.00000	4(a)
	81 Benzo(k)fluoranthene	252	13.387	13.363	(0.945)	704365	5.00000	5(a)
	82 Benzo(a)pyrene	252	14.004	13.974	(0.989)	652264	5.00000	5(a)
*	83 Perylene-d12	264	14.162	14.156	(1.000)	5781400	40.0000	(Q)
	84 Indeno(1,2,3-cd)pyrene	276	17.047	17.041	(1.204)	677978	5.00000	4(a)
	85 Dibenzo(a,h)anthracene	278	17.141	17.218	(1.210)	726555	5.00000	5(a)
	86 Benzo(g,h,i)perylene	276	17.964	18.046	(1.268)	722066	5.00000	5(aQH)

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.
H - Operator selected an alternate compound hit.


Data File: \\avogadro\organics\S6.I\130626.B\S6B4663.d
Date : 26-JUN-2013 13:25
Client ID: SSTD00562
Sample Info: SSTD00562,SSTD00562
Volume Injected (uL): 1.0
Column phase: Rxi-5Sil MS
Instrument: S6.i
Operator: PK SRC: PK
Column diameter: 0.25
Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
-1,4-Dioxane-d8+
-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\130626.B\S6B4663.d
Min
3
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19

Data File: \\avogadro\organics\S6.I\130626.B\S6B4664.d
Report Date: 27-Jun-2013 14:54

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626.B\S6B4664.d
Lab Smp Id: SSTD0606Z Client Smp ID: SSTD0606Z
Inj Date : 26-JUN-2013 13:51
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0606Z,SSTD0606Z
Misc Info : 1,5
Comment   :
Method   : \\avogadro\organics\S6.I\130626.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 15:33 pkaczorows Quant Type: ISTD
Cal Date : 26-JUN-2013 14:43 Cal File: S6B4666.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	2.687	2.692	(0.506)	61483	60.0000	80
	108	1,4-Dioxane	58	2.723	2.722	(0.512)	25697	60.0000	72
	1	N-Nitrosodimethylamine	74	3.011	3.010	(0.567)	144959	60.0000	62
	2	Pyridine	79	3.040	3.045	(0.572)	209415	60.0000	56
$	3	2-Fluorophenol	112	4.221	4.221	(0.794)	392647	60.0000	62
	101	Benzaldehyde	77	4.944	4.943	(0.930)	319514	60.0000	51
$	5	Phenol-d5	99	5.008	4.996	(0.943)	560795	60.0000	60
	6	Phenol	94	5.020	5.008	(0.945)	635475	60.0000	63
	7	Aniline	66	5.020	5.007	(0.945)	501011	60.0000	62
	8	bis(2-Chloroethyl)Ether	63	5.085	5.079	(0.957)	199445	60.0000	62(Q)
	10	2-Chlorophenol	128	5.143	5.137	(0.968)	512933	60.0000	61
	11	1,3-Dichlorobenzene	146	5.267	5.267	(0.991)	573276	60.0000	59
*	12	1,4-Dichlorobenzene-d4	152	5.314	5.308	(1.000)	319949	40.0000	
	13	1,4-Dichlorobenzene	146	5.325	5.325	(1.002)	616863	60.0000	60
	117	2-Ethyl-1-hexanol	57	5.361	5.354	(1.009)	181376	60.0000	59
	15	Benzyl Alcohol	108	5.425	5.419	(1.021)	367491	60.0000	60
	16	1,2-Dichlorobenzene	146	5.455	5.455	(1.027)	582951	60.0000	59
	17	2-Methylphenol	108	5.519	5.508	(1.039)	487502	60.0000	59
	18	2,2'-oxybis(1-Chloropropane)	45	5.531	5.531	(1.041)	154232	60.0000	56
	99	Acetophenone	105	5.649	5.642	(1.063)	1011622	60.0000	63

Data File: \\avogadro\organics\S6.I\130626.B\S6B4664.d
Report Date: 27-Jun-2013 14:54

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.649	5.637	(1.063)	401116	60.0000	61
	20 4-Methylphenol	108	5.649	5.637	(1.063)	662648	60.0000	65
	21 Hexachloroethane	117	5.737	5.737	(1.080)	241981	60.0000	59
$	22 Nitrobenzene-d5	82	5.772	5.766	(0.906)	718641	60.0000	56
	23 Nitrobenzene	77	5.790	5.784	(0.909)	688095	60.0000	55
	24 Isophorone	82	5.989	5.978	(0.940)	1111629	60.0000	53
	25 2-Nitrophenol	139	6.054	6.048	(0.950)	390954	60.0000	54
	26 2,4-Dimethylphenol	107	6.083	6.072	(0.955)	742161	60.0000	60
	27 bis(2-Chloroethoxy)methane	93	6.154	6.148	(0.966)	556509	60.0000	54
	28 Benzoic Acid	105	6.224	6.177	(0.977)	598220	60.0000	55(Q)
	29 2,4-Dichlorophenol	162	6.254	6.248	(0.982)	796870	60.0000	57
	30 1,2,4-Trichlorobenzene	180	6.324	6.318	(0.993)	946914	60.0000	56
*	31 Naphthalene-d8	136	6.371	6.371	(1.000)	1588933	40.0000	
	32 Naphthalene	128	6.395	6.389	(1.004)	2012213	60.0000	58
	115 alpha-Terpineol	59	6.389	6.388	(1.003)	294201	60.0000	56
	33 4-Chloroaniline	127	6.430	6.424	(1.009)	775180	60.0000	54
	34 Hexachlorobutadiene	225	6.495	6.489	(1.019)	716206	60.0000	55
	102 Caprolactam	113	6.765	6.729	(1.062)	201563	60.0000	47
	35 4-Chloro-3-Methylphenol	107	6.836	6.824	(1.073)	727066	60.0000	55
	36 2-Methylnaphthalene	142	6.965	6.959	(1.093)	1659156	60.0000	56
	114 1-Methylnaphthalene	142	7.047	7.046	(1.106)	1574319	60.0000	56
	38 Hexachlorocyclopentadiene	237	7.100	7.100	(0.906)	838410	60.0000	66
	112 1,2,4,5-Tetrachlorobenzene	216	7.112	7.105	(0.907)	1521920	60.0000	60
	39 2,4,6-Trichlorophenol	196	7.200	7.194	(0.918)	990161	60.0000	60
	40 2,4,5-Trichlorophenol	196	7.235	7.223	(0.923)	1036453	60.0000	59
$	41 2-Fluorobiphenyl	172	7.264	7.258	(0.927)	2717976	60.0000	60
	98 1,1'-Biphenyl	154	7.353	7.347	(0.938)	2637589	60.0000	60
	42 2-Chloronaphthalene	162	7.376	7.370	(0.941)	1953128	60.0000	60
	43 2-Nitroaniline	65	7.452	7.447	(0.951)	510893	60.0000	59
	44 Dimethylphthalate	163	7.611	7.593	(0.971)	2826733	60.0000	58
	45 2,6-Dinitrotoluene	165	7.658	7.640	(0.977)	646737	60.0000	58
	46 Acenaphthylene	152	7.729	7.717	(0.986)	3283097	60.0000	61
	47 3-Nitroaniline	138	7.805	7.787	(0.996)	533485	60.0000	58
*	48 Acenaphthene-d10	164	7.840	7.834	(1.000)	1430964	40.0000	
	49 Acenaphthene	153	7.870	7.864	(1.004)	2292351	60.0000	60
	50 2,4-Dinitrophenol	184	7.881	7.870	(1.005)	551859	60.0000	63(Q)
	51 4-Nitrophenol	109	7.940	7.917	(1.013)	724020	60.0000	57
	53 2,4-Dinitrotoluene	165	7.999	7.981	(1.020)	932767	60.0000	57
	52 Dibenzofuran	168	8.011	8.005	(1.022)	3441987	60.0000	59
	110 2,3,4,6-Tetrachlorophenol	232	8.116	8.110	(1.035)	1125444	60.0000	58
	54 Diethylphthalate	149	8.187	8.175	(1.044)	2773092	60.0000	59
	56 4-Chlorophenyl-phenylether	204	8.287	8.281	(1.057)	2038284	60.0000	59
	55 Fluorene	166	8.304	8.293	(1.059)	3127108	60.0000	60
	57 4-Nitroaniline	138	8.328	8.298	(1.062)	566663	60.0000	53
	58 4,6-Dinitro-2-methylphenol	198	8.346	8.322	(0.917)	790796	60.0000	61
	59 N-Nitrosodiphenylamine	169	8.393	8.381	(0.922)	2754293	60.0000	61
	97 Azobenzene	77	8.428	8.421	(0.926)	2782141	60.0000	60
$	60 2,4,6-Tribromophenol	330	8.504	8.498	(0.934)	772849	60.0000	60
	61 4-Bromophenyl-phenylether	248	8.704	8.698	(0.956)	1392517	60.0000	61
	62 Hexachlorobenzene	284	8.780	8.769	(0.965)	1459605	60.0000	59
	100 Atrazine	200	8.833	8.826	(0.970)	290019	60.0000	35
	63 Pentachlorophenol	266	8.939	8.927	(0.982)	1174517	60.0000	61
	111 Pentachloronitrobenzene	237	8.957	8.950	(0.984)	771325	60.0000	60
*	64 Phenanthrene-d10	188	9.103	9.098	(1.000)	3739847	40.0000	

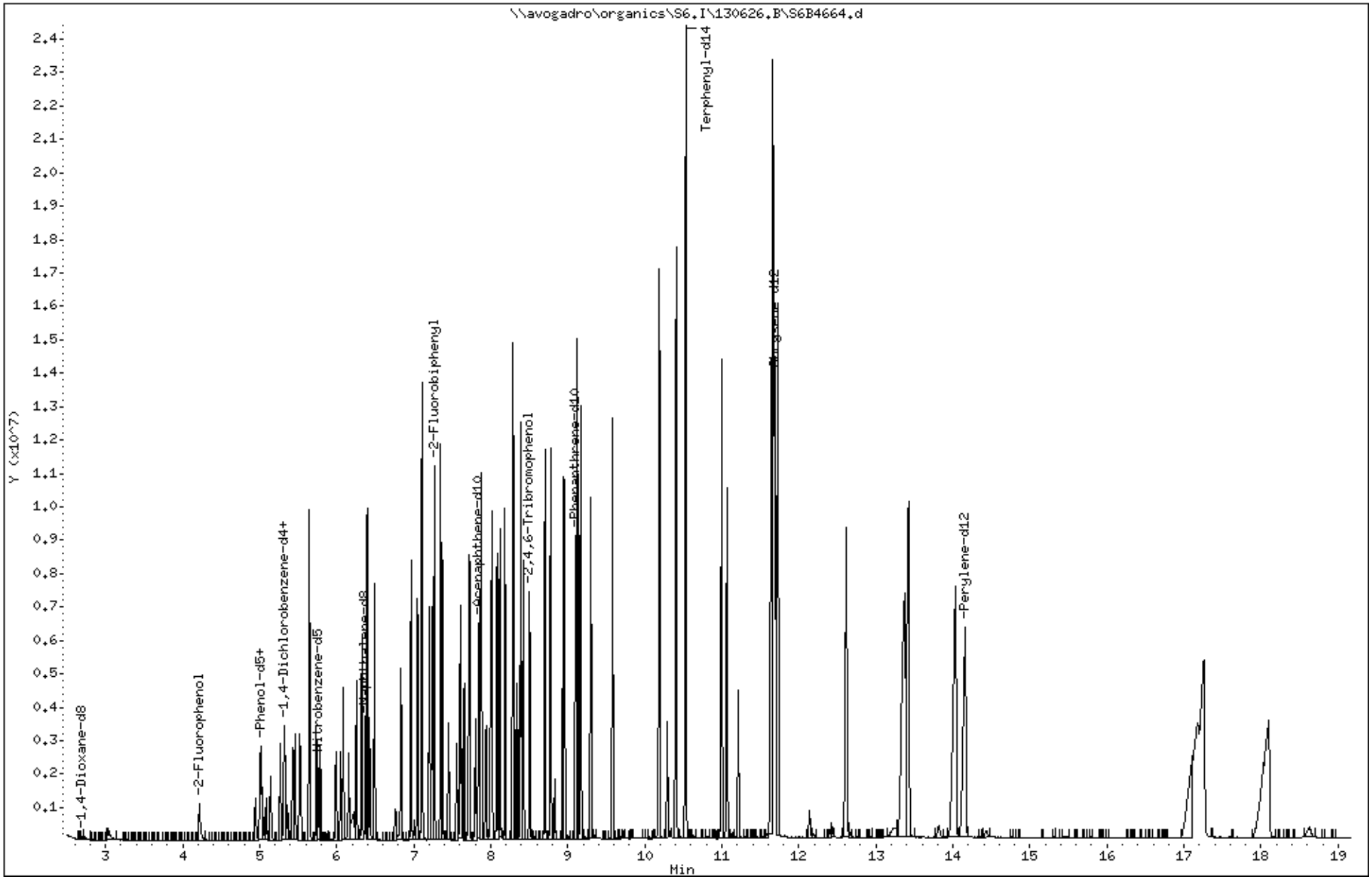
Data File: \\avogadro\organics\S6.I\130626.B\S6B4664.d
Report Date: 27-Jun-2013 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	65 Phenanthrene	178	9.127	9.115	(1.003)	4933481	60.0000	60
	66 Anthracene	178	9.174	9.156	(1.008)	5065483	60.0000	60
	67 Carbazole	167	9.303	9.286	(1.022)	4130287	60.0000	57
	68 Di-n-butylphthalate	149	9.579	9.568	(1.052)	4971579	60.0000	60
	69 Fluoranthene	202	10.190	10.173	(1.119)	7001067	60.0000	58
	70 Benzidine	184	10.290	10.289	(0.880)	1393859	60.0000	68
	71 Pyrene	202	10.408	10.384	(0.890)	7144681	60.0000	57
$	72 Terphenyl-d14	244	10.531	10.514	(0.901)	5868867	60.0000	58
	73 Butylbenzylphthalate	149	11.001	10.978	(0.941)	2747465	60.0000	60
	74 3,3'-Dichlorobenzidine	252	11.636	11.601	(0.995)	3517159	60.0000	57
	78 bis(2-Ethylhexyl)phthalate	149	11.659	11.636	(0.997)	4558097	60.0000	62
	75 Benzo(a)anthracene	228	11.671	11.642	(0.998)	9747110	60.0000	58
*	76 Chrysene-d12	240	11.695	11.665	(1.000)	6409991	40.0000	
	77 Chrysene	228	11.730	11.695	(1.003)	7862691	60.0000	57
	79 Di-n-octylphthalate	149	12.617	12.588	(0.891)	6541781	60.0000	60
	80 Benzo(b)fluoranthene	252	13.369	13.363	(0.944)	9971042	60.0000	59
	81 Benzo(k)fluoranthene	252	13.422	13.363	(0.948)	8852684	60.0000	57
	82 Benzo(a)pyrene	252	14.033	13.974	(0.991)	9025633	60.0000	58
*	83 Perylene-d12	264	14.156	14.156	(1.000)	6490161	40.0000	(Q)
	84 Indeno(1,2,3-cd)pyrene	276	17.165	17.041	(1.212)	11759994	60.0000	64
	85 Dibenzo(a,h)anthracene	278	17.259	17.218	(1.219)	9804957	60.0000	59
	86 Benzo(g,h,i)perylene	276	18.099	18.046	(1.278)	9614516	60.0000	57(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\S6.I\130626.B\S6B4664.d
Date : 26-JUN-2013 13:51
Client ID: SSTD0606Z
Instrument: S6.i
Sample Info: SSTD0606Z,SSTD0606Z
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130626.B\S6B4665.d
Report Date: 27-Jun-2013 14:54

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626.B\S6B4665.d
Lab Smp Id: SSTD0106Z Client Smp ID: SSTD0106Z
Inj Date : 26-JUN-2013 14:17
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0106Z,SSTD0106Z
Misc Info : 1,2
Comment   :
Method   : \\avogadro\organics\S6.I\130626.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 15:33 pkaczorows Quant Type: ISTD
Cal Date : 26-JUN-2013 14:43 Cal File: S6B4666.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	2.693	2.692	(0.507)	3796	10.0000	5(aQ)
	108	1,4-Dioxane	58	2.723	2.722	(0.513)	1946	10.0000	6(aQ)
	1	N-Nitrosodimethylamine	74	3.010	3.010	(0.567)	24414	10.0000	11
	2	Pyridine	79	3.046	3.045	(0.574)	28225	10.0000	8(a)
$	3	2-Fluorophenol	112	4.215	4.221	(0.794)	56231	10.0000	9(a)
	101	Benzaldehyde	77	4.944	4.943	(0.931)	88464	10.0000	15
$	5	Phenol-d5	99	4.996	4.996	(0.941)	89704	10.0000	10
	6	Phenol	94	5.008	5.008	(0.944)	95492	10.0000	10
	7	Aniline	66	5.008	5.007	(0.944)	63518	10.0000	8(aQ)
	8	bis(2-Chloroethyl)Ether	63	5.079	5.079	(0.957)	29540	10.0000	10(Q)
	10	2-Chlorophenol	128	5.137	5.137	(0.968)	78621	10.0000	10
	11	1,3-Dichlorobenzene	146	5.267	5.267	(0.992)	92358	10.0000	10
*	12	1,4-Dichlorobenzene-d4	152	5.308	5.308	(1.000)	308676	40.0000	
	13	1,4-Dichlorobenzene	146	5.325	5.325	(1.003)	100277	10.0000	10
	117	2-Ethyl-1-hexanol	57	5.355	5.354	(1.009)	26847	10.0000	9(a)
	15	Benzyl Alcohol	108	5.419	5.419	(1.021)	54093	10.0000	9(aQ)
	16	1,2-Dichlorobenzene	146	5.455	5.455	(1.028)	102962	10.0000	11
	17	2-Methylphenol	108	5.508	5.508	(1.038)	74852	10.0000	9(a)
	18	2,2'-oxybis(1-Chloropropane)	45	5.525	5.531	(1.041)	28614	10.0000	11(Q)
	99	Acetophenone	105	5.637	5.642	(1.062)	145179	10.0000	9(a)

Data File: \\avogadro\organics\S6.I\130626.B\S6B4665.d
Report Date: 27-Jun-2013 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	19 N-Nitroso-di-n-propylamine	70	5.631	5.637	(1.061)	60163	10.0000	10
	20 4-Methylphenol	108	5.631	5.637	(1.061)	89000	10.0000	9(a)
	21 Hexachloroethane	117	5.737	5.737	(1.081)	42934	10.0000	11(Q)
$	22 Nitrobenzene-d5	82	5.766	5.766	(0.905)	111758	10.0000	10
	23 Nitrobenzene	77	5.778	5.784	(0.907)	111321	10.0000	10
	24 Isophorone	82	5.978	5.978	(0.938)	187145	10.0000	10
	25 2-Nitrophenol	139	6.048	6.048	(0.949)	63913	10.0000	10(Q)
	26 2,4-Dimethylphenol	107	6.072	6.072	(0.953)	101043	10.0000	9(a)
	27 bis(2-Chloroethoxy)methane	93	6.148	6.148	(0.965)	91927	10.0000	10
	28 Benzoic Acid	105	6.154	6.177	(0.966)	114509	10.0000	12(aQ)
	29 2,4-Dichlorophenol	162	6.248	6.248	(0.981)	130745	10.0000	11
	30 1,2,4-Trichlorobenzene	180	6.318	6.318	(0.992)	155731	10.0000	10
*	31 Naphthalene-d8	136	6.371	6.371	(1.000)	1384980	40.0000	
	32 Naphthalene	128	6.389	6.389	(1.003)	296663	10.0000	10
	115 alpha-Terpineol	59	6.383	6.388	(1.002)	46517	10.0000	10
	33 4-Chloroaniline	127	6.424	6.424	(1.008)	131888	10.0000	10
	34 Hexachlorobutadiene	225	6.489	6.489	(1.018)	115635	10.0000	10
	102 Caprolactam	113	6.712	6.729	(1.053)	40766	10.0000	11
	35 4-Chloro-3-Methylphenol	107	6.818	6.824	(1.070)	118982	10.0000	10
	36 2-Methylnaphthalene	142	6.959	6.959	(1.092)	265542	10.0000	10
	114 1-Methylnaphthalene	142	7.047	7.046	(1.106)	255500	10.0000	10
	38 Hexachlorocyclopentadiene	237	7.100	7.100	(0.906)	121686	10.0000	9(a)
	112 1,2,4,5-Tetrachlorobenzene	216	7.106	7.105	(0.906)	250812	10.0000	10
	39 2,4,6-Trichlorophenol	196	7.194	7.194	(0.918)	161257	10.0000	10
	40 2,4,5-Trichlorophenol	196	7.223	7.223	(0.921)	180306	10.0000	10(a)
$	41 2-Fluorobiphenyl	172	7.258	7.258	(0.926)	446455	10.0000	10
	98 1,1'-Biphenyl	154	7.347	7.347	(0.937)	430942	10.0000	10
	42 2-Chloronaphthalene	162	7.370	7.370	(0.940)	325888	10.0000	10
	43 2-Nitroaniline	65	7.447	7.447	(0.950)	84856	10.0000	9(a)
	44 Dimethylphthalate	163	7.588	7.593	(0.968)	492045	10.0000	10
	45 2,6-Dinitrotoluene	165	7.640	7.640	(0.975)	111088	10.0000	10
	46 Acenaphthylene	152	7.717	7.717	(0.984)	533763	10.0000	10
	47 3-Nitroaniline	138	7.787	7.787	(0.993)	93527	10.0000	10(a)
*	48 Acenaphthene-d10	164	7.840	7.834	(1.000)	1474256	40.0000	
	49 Acenaphthene	153	7.864	7.864	(1.003)	375179	10.0000	10
	50 2,4-Dinitrophenol	184	7.870	7.870	(1.004)	71001	10.0000	8(aQ)
	51 4-Nitrophenol	109	7.917	7.917	(1.010)	133115	10.0000	10(a)
	53 2,4-Dinitrotoluene	165	7.981	7.981	(1.018)	161783	10.0000	10
	52 Dibenzofuran	168	8.005	8.005	(1.021)	586145	10.0000	10
	110 2,3,4,6-Tetrachlorophenol	232	8.105	8.110	(1.034)	192999	10.0000	10
	54 Diethylphthalate	149	8.175	8.175	(1.043)	478915	10.0000	10
	56 4-Chlorophenyl-phenylether	204	8.281	8.281	(1.056)	338075	10.0000	10
	55 Fluorene	166	8.293	8.293	(1.058)	511825	10.0000	10
	57 4-Nitroaniline	138	8.298	8.298	(1.058)	113304	10.0000	10(a)
	58 4,6-Dinitro-2-methylphenol	198	8.322	8.322	(0.914)	126222	10.0000	9(a)
	59 N-Nitrosodiphenylamine	169	8.381	8.381	(0.920)	475527	10.0000	10
	97 Azobenzene	77	8.416	8.421	(0.924)	487935	10.0000	10
$	60 2,4,6-Tribromophenol	330	8.498	8.498	(0.933)	132471	10.0000	10(H)
	61 4-Bromophenyl-phenylether	248	8.698	8.698	(0.955)	241112	10.0000	10
	62 Hexachlorobenzene	284	8.774	8.769	(0.963)	257886	10.0000	10
	100 Atrazine	200	8.821	8.826	(0.968)	107823	10.0000	12
	63 Pentachlorophenol	266	8.939	8.927	(0.981)	192291	10.0000	10(a)
	111 Pentachloronitrobenzene	237	8.951	8.950	(0.983)	134610	10.0000	10
*	64 Phenanthrene-d10	188	9.109	9.098	(1.000)	3929837	40.0000	

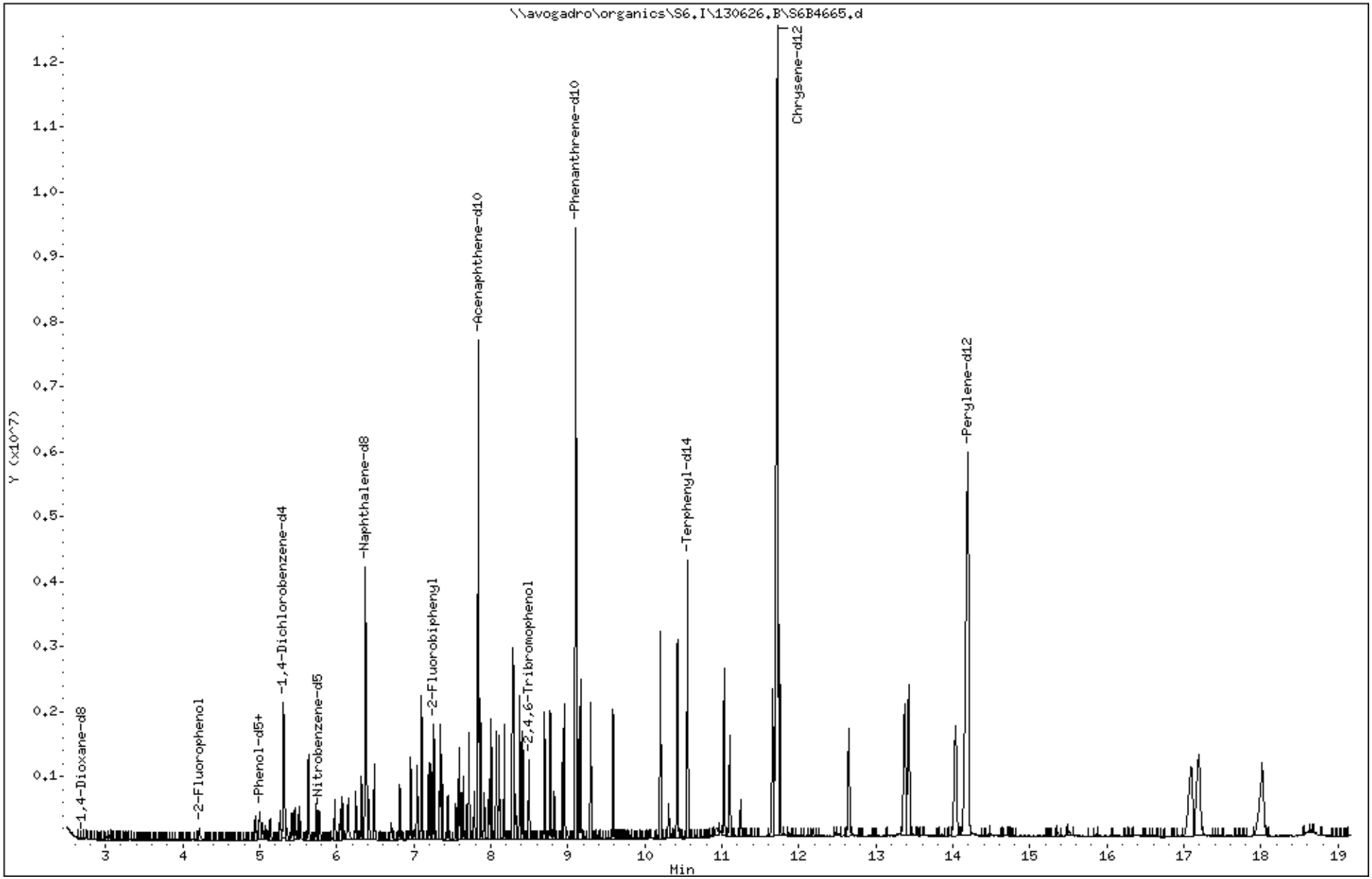
Data File: \\avogadro\organics\S6.I\130626.B\S6B4665.d
Report Date: 27-Jun-2013 14:54

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	65	Phenanthrene	178	9.127	9.115	(1.002)	855343	10.0000	10
	66	Anthracene	178	9.168	9.156	(1.006)	861682	10.0000	10
	67	Carbazole	167	9.297	9.286	(1.021)	800976	10.0000	10
	68	Di-n-butylphthalate	149	9.591	9.568	(1.053)	832784	10.0000	10
	69	Fluoranthene	202	10.202	10.173	(1.120)	1277019	10.0000	10
	70	Benzidine	184	10.308	10.289	(0.879)	215471	10.0000	10(a)
	71	Pyrene	202	10.425	10.384	(0.889)	1317043	10.0000	10
$	72	Terphenyl-d14	244	10.555	10.514	(0.900)	1052657	10.0000	10
	73	Butylbenzylphthalate	149	11.031	10.978	(0.941)	455193	10.0000	10
	74	3,3'-Dichlorobenzidine	252	11.659	11.601	(0.994)	646772	10.0000	10
	78	bis(2-Ethylhexyl)phthalate	149	11.695	11.636	(0.997)	704013	10.0000	10
	75	Benzo(a)anthracene	228	11.700	11.642	(0.998)	1730056	10.0000	10
*	76	Chrysene-d12	240	11.724	11.665	(1.000)	6490580	40.0000	
	77	Chrysene	228	11.753	11.695	(1.002)	1481369	10.0000	10
	79	Di-n-octylphthalate	149	12.652	12.588	(0.892)	1111794	10.0000	10
	80	Benzo(b)fluoranthene	252	13.369	13.363	(0.942)	1670023	10.0000	10
	81	Benzo(k)fluoranthene	252	13.422	13.363	(0.946)	1736088	10.0000	11
	82	Benzo(a)pyrene	252	14.033	13.974	(0.989)	1667822	10.0000	10
*	83	Perylene-d12	264	14.192	14.156	(1.000)	6720542	40.0000	(Q)
	84	Indeno(1,2,3-cd)pyrene	276	17.094	17.041	(1.205)	1742716	10.0000	9(a)
	85	Dibenzo(a,h)anthracene	278	17.194	17.218	(1.212)	1744498	10.0000	10(H)
	86	Benzo(g,h,i)perylene	276	18.017	18.046	(1.270)	1761207	10.0000	10(QH)

QC Flag Legend

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

Data File: \\avogadro\organics\S6.I\130626.B\S6B4665.d
Date : 26-JUN-2013 14:17
Client ID: SSTD0106Z
Instrument: S6.i
Sample Info: SSTD0106Z,SSTD0106Z
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130626.B\S6B4666.d
Report Date: 27-Jun-2013 14:54

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626.B\S6B4666.d
Lab Smp Id: SSTD0406Z Client Smp ID: SSTD0406Z
Inj Date : 26-JUN-2013 14:43
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0406Z,SSTD0406Z
Misc Info : 1,4
Comment   :
Method   : \\avogadro\organics\S6.I\130626.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 15:33 pkaczorows Quant Type: ISTD
Cal Date : 26-JUN-2013 14:43 Cal File: S6B4666.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	AMOUNTS ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109	1,4-Dioxane-d8	96	2.693	2.692	(0.507)	27343	40.0000	42
	108	1,4-Dioxane	58	2.723	2.722	(0.513)	14363	40.0000	47
	1	N-Nitrosodimethylamine	74	3.005	3.010	(0.566)	79739	40.0000	40
	2	Pyridine	79	3.040	3.045	(0.573)	148407	40.0000	46
$	3	2-Fluorophenol	112	4.215	4.221	(0.794)	213553	40.0000	39
	101	Benzaldehyde	77	4.944	4.943	(0.931)	193117	40.0000	36
$	5	Phenol-d5	99	5.002	4.996	(0.942)	310321	40.0000	39
	6	Phenol	94	5.014	5.008	(0.945)	330749	40.0000	38
	7	Aniline	66	5.008	5.007	(0.944)	248389	40.0000	36
	8	bis(2-Chloroethyl)Ether	63	5.079	5.079	(0.957)	102426	40.0000	37
	10	2-Chlorophenol	128	5.137	5.137	(0.968)	275381	40.0000	38
	11	1,3-Dichlorobenzene	146	5.267	5.267	(0.992)	316600	40.0000	38
*	12	1,4-Dichlorobenzene-d4	152	5.308	5.308	(1.000)	273557	40.0000	
	13	1,4-Dichlorobenzene	146	5.325	5.325	(1.003)	345696	40.0000	39
	117	2-Ethyl-1-hexanol	57	5.355	5.354	(1.009)	96476	40.0000	37
	15	Benzyl Alcohol	108	5.419	5.419	(1.021)	204333	40.0000	39
	16	1,2-Dichlorobenzene	146	5.455	5.455	(1.028)	315800	40.0000	37
	17	2-Methylphenol	108	5.513	5.508	(1.039)	267315	40.0000	38
	18	2,2'-oxybis(1-Chloropropane)	45	5.531	5.531	(1.042)	87611	40.0000	37
	99	Acetophenone	105	5.643	5.642	(1.063)	518072	40.0000	38

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.643	5.637	(1.063)	199494	40.0000	36
	20 4-Methylphenol	108	5.643	5.637	(1.063)	332100	40.0000	38
	21 Hexachloroethane	117	5.737	5.737	(1.081)	135095	40.0000	38
$	22 Nitrobenzene-d5	82	5.772	5.766	(0.906)	389800	40.0000	39
	23 Nitrobenzene	77	5.784	5.784	(0.908)	373058	40.0000	38
	24 Isophorone	82	5.984	5.978	(0.939)	631160	40.0000	39
	25 2-Nitrophenol	139	6.048	6.048	(0.949)	219737	40.0000	40
	26 2,4-Dimethylphenol	107	6.078	6.072	(0.954)	408540	40.0000	43
	27 bis(2-Chloroethoxy)methane	93	6.154	6.148	(0.966)	301085	40.0000	38
	28 Benzoic Acid	105	6.189	6.177	(0.971)	284027	40.0000	34
	29 2,4-Dichlorophenol	162	6.254	6.248	(0.982)	426070	40.0000	39
	30 1,2,4-Trichlorobenzene	180	6.324	6.318	(0.993)	495547	40.0000	38
*	31 Naphthalene-d8	136	6.371	6.371	(1.000)	1225889	40.0000	
	32 Naphthalene	128	6.389	6.389	(1.003)	1039771	40.0000	39
	115 alpha-Terpineol	59	6.389	6.388	(1.003)	150484	40.0000	37
	33 4-Chloroaniline	127	6.424	6.424	(1.008)	437893	40.0000	39
	34 Hexachlorobutadiene	225	6.495	6.489	(1.019)	389986	40.0000	39
	102 Caprolactam	113	6.741	6.729	(1.058)	129672	40.0000	39
	35 4-Chloro-3-Methylphenol	107	6.830	6.824	(1.072)	392129	40.0000	38
	36 2-Methylnaphthalene	142	6.965	6.959	(1.093)	869671	40.0000	38
	114 1-Methylnaphthalene	142	7.047	7.046	(1.106)	845240	40.0000	39
	38 Hexachlorocyclopentadiene	237	7.100	7.100	(0.906)	355031	40.0000	33
	112 1,2,4,5-Tetrachlorobenzene	216	7.106	7.105	(0.906)	804440	40.0000	38
	39 2,4,6-Trichlorophenol	196	7.200	7.194	(0.918)	533154	40.0000	38
	40 2,4,5-Trichlorophenol	196	7.229	7.223	(0.922)	572548	40.0000	38
$	41 2-Fluorobiphenyl	172	7.264	7.258	(0.927)	1475367	40.0000	38
	98 1,1'-Biphenyl	154	7.353	7.347	(0.938)	1409531	40.0000	38
	42 2-Chloronaphthalene	162	7.370	7.370	(0.940)	1071089	40.0000	38
	43 2-Nitroaniline	65	7.452	7.447	(0.951)	280083	40.0000	38
	44 Dimethylphthalate	163	7.599	7.593	(0.969)	1568624	40.0000	38
	45 2,6-Dinitrotoluene	165	7.652	7.640	(0.976)	367921	40.0000	39
	46 Acenaphthylene	152	7.723	7.717	(0.985)	1778975	40.0000	39
	47 3-Nitroaniline	138	7.799	7.787	(0.995)	292224	40.0000	37
*	48 Acenaphthene-d10	164	7.840	7.834	(1.000)	1217674	40.0000	
	49 Acenaphthene	153	7.870	7.864	(1.004)	1234399	40.0000	38
	50 2,4-Dinitrophenol	184	7.875	7.870	(1.004)	313776	40.0000	42
	51 4-Nitrophenol	109	7.928	7.917	(1.011)	405678	40.0000	37
	53 2,4-Dinitrotoluene	165	7.987	7.981	(1.019)	531198	40.0000	38
	52 Dibenzofuran	168	8.011	8.005	(1.022)	1878140	40.0000	38
	110 2,3,4,6-Tetrachlorophenol	232	8.110	8.110	(1.034)	628998	40.0000	38
	54 Diethylphthalate	149	8.181	8.175	(1.043)	1503689	40.0000	38
	56 4-Chlorophenyl-phenylether	204	8.287	8.281	(1.057)	1111931	40.0000	38
	55 Fluorene	166	8.298	8.293	(1.058)	1745605	40.0000	40
	57 4-Nitroaniline	138	8.316	8.298	(1.061)	368394	40.0000	40
	58 4,6-Dinitro-2-methylphenol	198	8.340	8.322	(0.916)	457327	40.0000	40
	59 N-Nitrosodiphenylamine	169	8.387	8.381	(0.921)	1528594	40.0000	38
	97 Azobenzene	77	8.422	8.421	(0.925)	1564621	40.0000	38
$	60 2,4,6-Tribromophenol	330	8.504	8.498	(0.934)	427403	40.0000	38
	61 4-Bromophenyl-phenylether	248	8.704	8.698	(0.955)	745901	40.0000	37
	62 Hexachlorobenzene	284	8.780	8.769	(0.964)	843716	40.0000	39
	100 Atrazine	200	8.833	8.826	(0.970)	340374	40.0000	47
	63 Pentachlorophenol	266	8.945	8.927	(0.982)	644582	40.0000	38
	111 Pentachloronitrobenzene	237	8.957	8.950	(0.983)	430992	40.0000	38
*	64 Phenanthrene-d10	188	9.109	9.098	(1.000)	3286129	40.0000	

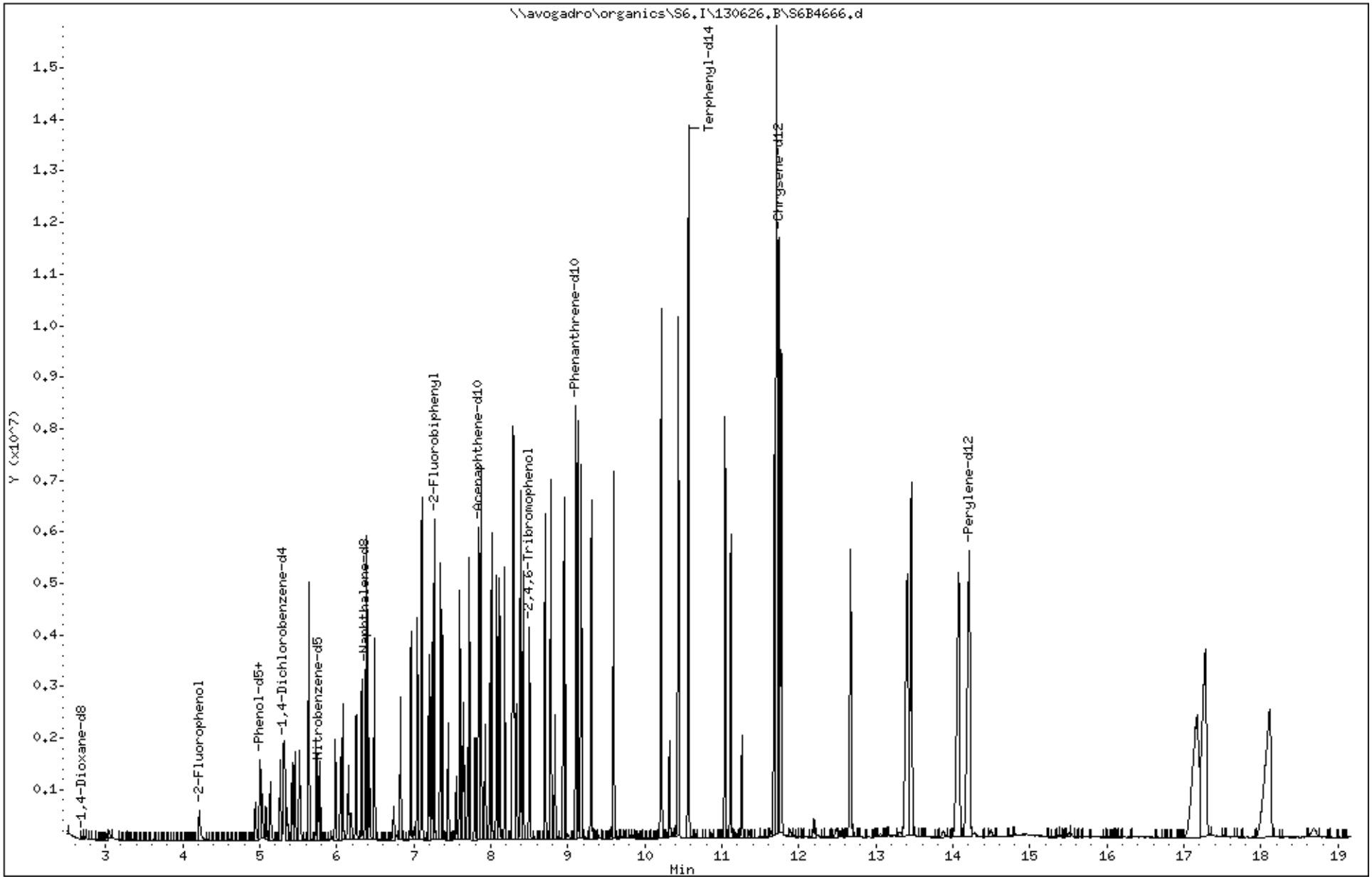
Data File: \\avogadro\organics\S6.I\130626.B\S6B4666.d
Report Date: 27-Jun-2013 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	65 Phenanthrene	178	9.133	9.115	(1.003)	2842067	40.0000	39
	66 Anthracene	178	9.180	9.156	(1.008)	2878075	40.0000	39
	67 Carbazole	167	9.309	9.286	(1.022)	2404605	40.0000	38
	68 Di-n-butylphthalate	149	9.597	9.568	(1.054)	2797589	40.0000	39
	69 Fluoranthene	202	10.214	10.173	(1.121)	4140568	40.0000	39
	70 Benzidine	184	10.320	10.289	(0.883)	745403	40.0000	41
	71 Pyrene	202	10.437	10.384	(0.893)	4197024	40.0000	38
$	72 Terphenyl-d14	244	10.566	10.514	(0.904)	3466431	40.0000	38
	73 Butylbenzylphthalate	149	11.042	10.978	(0.945)	1519391	40.0000	37
	74 3,3'-Dichlorobenzidine	252	11.683	11.601	(1.000)	2043585	40.0000	37
	78 bis(2-Ethylhexyl)phthalate	149	11.712	11.636	(1.002)	2492291	40.0000	38
	75 Benzo(a)anthracene	228	11.718	11.642	(1.003)	5731070	40.0000	38
*	76 Chrysene-d12	240	11.742	11.665	(1.000)	5732758	40.0000	(H)
	77 Chrysene	228	11.777	11.695	(1.008)	4681317	40.0000	38(H)
	79 Di-n-octylphthalate	149	12.676	12.588	(0.899)	3736930	40.0000	37(H)
	80 Benzo(b)fluoranthene	252	13.404	13.363	(0.951)	5603797	40.0000	36
	81 Benzo(k)fluoranthene	252	13.463	13.363	(0.955)	5644291	40.0000	39(H)
	82 Benzo(a)pyrene	252	14.074	13.974	(0.998)	5490455	40.0000	38(H)
*	83 Perylene-d12	264	14.209	14.156	(1.000)	5963482	40.0000	(QH)
	84 Indeno(1,2,3-cd)pyrene	276	17.171	17.041	(1.218)	6052182	40.0000	36
	85 Dibenzo(a,h)anthracene	278	17.276	17.218	(1.225)	5783728	40.0000	38(H)
	86 Benzo(g,h,i)perylene	276	18.117	18.046	(1.285)	5982552	40.0000	39(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\S6.I\130626.B\S6B4666.d
Date : 26-JUN-2013 14:43
Client ID: SSTD0406Z
Instrument: S6.i
Sample Info: SSTD0406Z,SSTD0406Z
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130627.B\S6B4711B.d
Report Date: 28-Jun-2013 14:13

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130627.B\S6B4711B.d
Lab Smp Id: SSTD0256B Client Smp ID: SSTD0256B
Inj Date : 27-JUN-2013 14:04
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0256B,SSTD0256B
Misc Info : 2,3
Comment   :
Method   : \\avogadro\organics\S6.I\130627.B\S6_8270C_N.m
Meth Date : 28-Jun-2013 14:12 pkaczorows Quant Type: ISTD
Cal Date : 27-JUN-2013 16:11 Cal File: S6B4716.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: TARGET113

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	2.593	2.593	(0.496)	1990	25.0000	26
	108 1,4-Dioxane	58	2.617	2.617	(0.500)	310	25.0000	12(Q)
	1 N-Nitrosodimethylamine	74	2.905	2.905	(0.555)	3997	25.0000	24(Q)
	2 Pyridine	79	2.957	2.957	(0.565)	5498	25.0000	18(T)
$	3 2-Fluorophenol	112	4.144	4.138	(0.792)	11566	25.0000	27
	101 Benzaldehyde	77	4.867	4.867	(0.930)	9584	25.0000	28
$	5 Phenol-d5	99	4.926	4.926	(0.942)	16954	25.0000	29
	6 Phenol	94	4.938	4.938	(0.944)	17497	25.0000	29
	7 Aniline	66	4.932	4.932	(0.943)	12015	25.0000	29
	8 bis(2-Chloroethyl)Ether	63	5.002	5.002	(0.956)	5434	25.0000	29
	10 2-Chlorophenol	128	5.061	5.061	(0.967)	13871	25.0000	27
	11 1,3-Dichlorobenzene	146	5.190	5.190	(0.992)	16545	25.0000	28
*	12 1,4-Dichlorobenzene-d4	152	5.231	5.237	(1.000)	17421	40.0000	
	13 1,4-Dichlorobenzene	146	5.249	5.249	(1.003)	16378	25.0000	28
	117 2-Ethyl-1-hexanol	57	5.278	5.278	(1.009)	4115	25.0000	27
	15 Benzyl Alcohol	108	5.343	5.343	(1.021)	9371	25.0000	28
	16 1,2-Dichlorobenzene	146	5.378	5.378	(1.028)	14894	25.0000	26
	17 2-Methylphenol	108	5.437	5.437	(1.039)	13929	25.0000	29
	18 2,2'-oxybis(1-Chloropropane)	45	5.455	5.455	(1.043)	3025	25.0000	24(Q)
	99 Acetophenone	105	5.560	5.560	(1.063)	24025	25.0000	29

Data File: \\avogadro\organics\S6.I\130627.B\S6B4711B.d
Report Date: 28-Jun-2013 14:13

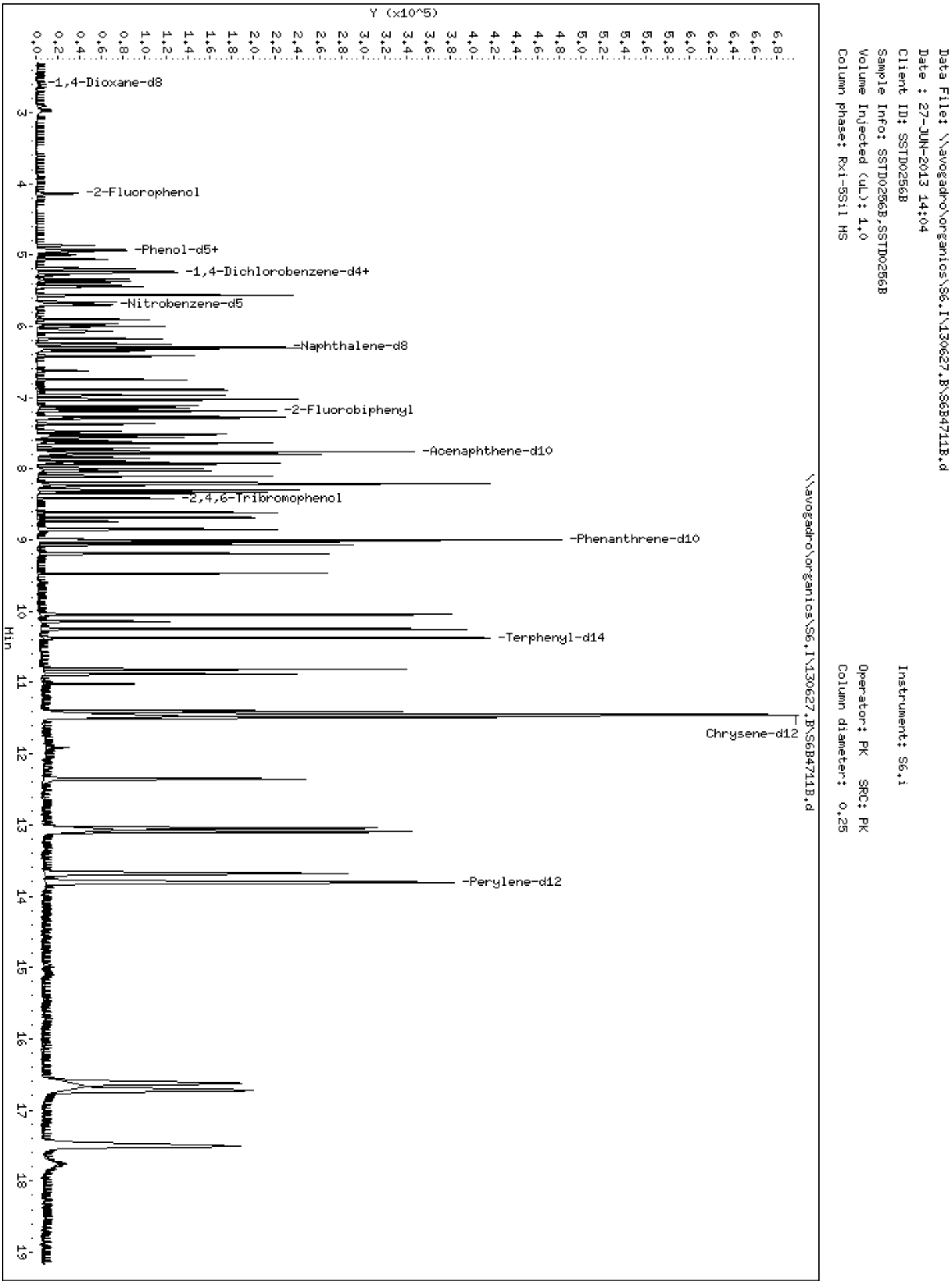
							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.560	5.560	(1.063)	8816	25.0000	27
	20 4-Methylphenol	108	5.560	5.560	(1.063)	15780	25.0000	29
	21 Hexachloroethane	117	5.660	5.660	(1.082)	6454	25.0000	27
$	22 Nitrobenzene-d5	82	5.690	5.690	(0.904)	17113	25.0000	27
	23 Nitrobenzene	77	5.707	5.707	(0.907)	17146	25.0000	28
	24 Isophorone	82	5.901	5.901	(0.937)	29741	25.0000	30
	25 2-Nitrophenol	139	5.972	5.972	(0.949)	9802	25.0000	28
	26 2,4-Dimethylphenol	107	6.001	6.001	(0.953)	18175	25.0000	31
	27 bis(2-Chloroethoxy)methane	93	6.077	6.077	(0.965)	13584	25.0000	28
	28 Benzoic Acid	105	6.060	6.060	(0.963)	16106	25.0000	31
	29 2,4-Dichlorophenol	162	6.171	6.171	(0.980)	18257	25.0000	30
	30 1,2,4-Trichlorobenzene	180	6.248	6.248	(0.993)	17819	25.0000	27
*	31 Naphthalene-d8	136	6.295	6.295	(1.000)	75990	40.0000	
	32 Naphthalene	128	6.312	6.312	(1.003)	48686	25.0000	29
	115 alpha-Terpineol	59	6.312	6.312	(1.003)	5483	25.0000	26(Q)
	33 4-Chloroaniline	127	6.348	6.348	(1.008)	20466	25.0000	28
	34 Hexachlorobutadiene	225	6.418	6.418	(1.020)	10903	25.0000	27
	102 Caprolactam	113	6.624	6.624	(1.052)	6741	25.0000	30
	35 4-Chloro-3-Methylphenol	107	6.747	6.747	(1.072)	18205	25.0000	31
	36 2-Methylnaphthalene	142	6.888	6.882	(1.094)	39065	25.0000	29
	114 1-Methylnaphthalene	142	6.971	6.971	(1.107)	35087	25.0000	28
	38 Hexachlorocyclopentadiene	237	7.023	7.023	(0.905)	12370	25.0000	28
	112 1,2,4,5-Tetrachlorobenzene	216	7.029	7.029	(0.906)	22218	25.0000	27
	39 2,4,6-Trichlorophenol	196	7.117	7.117	(0.917)	16211	25.0000	28
	40 2,4,5-Trichlorophenol	196	7.153	7.147	(0.922)	17450	25.0000	28
$	41 2-Fluorobiphenyl	172	7.188	7.182	(0.927)	50321	25.0000	27
	98 1,1'-Biphenyl	154	7.270	7.270	(0.937)	54204	25.0000	27
	42 2-Chloronaphthalene	162	7.294	7.294	(0.940)	41411	25.0000	27
	43 2-Nitroaniline	65	7.370	7.370	(0.950)	12746	25.0000	30
	44 Dimethylphthalate	163	7.517	7.511	(0.969)	57916	25.0000	29
	45 2,6-Dinitrotoluene	165	7.564	7.564	(0.975)	14734	25.0000	31
	46 Acenaphthylene	152	7.640	7.640	(0.985)	68953	25.0000	27
	47 3-Nitroaniline	138	7.711	7.711	(0.994)	14517	25.0000	30
*	48 Acenaphthene-d10	164	7.758	7.758	(1.000)	61053	40.0000	
	49 Acenaphthene	153	7.787	7.781	(1.004)	49918	25.0000	29
	50 2,4-Dinitrophenol	184	7.793	7.793	(1.005)	8375	25.0000	26(Q)
	51 4-Nitrophenol	109	7.840	7.840	(1.011)	15804	25.0000	30
	53 2,4-Dinitrotoluene	165	7.905	7.899	(1.019)	20221	25.0000	30
	52 Dibenzofuran	168	7.928	7.928	(1.022)	68190	25.0000	28
	110 2,3,4,6-Tetrachlorophenol	232	8.028	8.028	(1.035)	16527	25.0000	29
	54 Diethylphthalate	149	8.099	8.099	(1.044)	56552	25.0000	28
	56 4-Chlorophenyl-phenylether	204	8.204	8.204	(1.058)	32015	25.0000	29
	55 Fluorene	166	8.216	8.210	(1.059)	59067	25.0000	28
	57 4-Nitroaniline	138	8.222	8.216	(1.060)	16379	25.0000	30
	58 4,6-Dinitro-2-methylphenol	198	8.246	8.245	(0.916)	13413	25.0000	27
	59 N-Nitrosodiphenylamine	169	8.304	8.298	(0.922)	54031	25.0000	28
	97 Azobenzene	77	8.340	8.340	(0.926)	61870	25.0000	27
$	60 2,4,6-Tribromophenol	330	8.416	8.416	(0.935)	9579	25.0000	26
	61 4-Bromophenyl-phenylether	248	8.616	8.616	(0.957)	19321	25.0000	26
	62 Hexachlorobenzene	284	8.686	8.680	(0.965)	21591	25.0000	27
	100 Atrazine	200	8.739	8.739	(0.971)	8459	25.0000	29
	63 Pentachlorophenol	266	8.845	8.845	(0.982)	12683	25.0000	25
	111 Pentachloronitrobenzene	237	8.857	8.857	(0.984)	9583	25.0000	27
*	64 Phenanthrene-d10	188	9.003	8.998	(1.000)	148493	40.0000	

Data File: \\avogadro\organics\S6.I\130627.B\S6B4711B.d
Report Date: 28-Jun-2013 14:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.021	9.021	(1.002)	99659	25.0000	28
66	Anthracene	178	9.068	9.062	(1.007)	102622	25.0000	28
67	Carbazole	167	9.197	9.191	(1.022)	99931	25.0000	29
68	Di-n-butylphthalate	149	9.473	9.462	(1.052)	109765	25.0000	28
69	Fluoranthene	202	10.043	10.032	(1.116)	135453	25.0000	29
70	Benzidine	184	10.143	10.143	(0.885)	37410	25.0000	28
71	Pyrene	202	10.249	10.231	(0.894)	140777	25.0000	28
$ 72	Terphenyl-d14	244	10.372	10.349	(0.905)	100706	25.0000	28
73	Butylbenzylphthalate	149	10.813	10.790	(0.943)	61951	25.0000	28
74	3,3'-Dichlorobenzidine	252	11.407	11.377	(0.995)	74164	25.0000	31
78	bis(2-Ethylhexyl)phthalate	149	11.442	11.412	(0.998)	90318	25.0000	27
75	Benzo(a)anthracene	228	11.448	11.424	(0.998)	180825	25.0000	30
* 76	Chrysene-d12	240	11.465	11.436	(1.000)	244081	40.0000	
77	Chrysene	228	11.495	11.465	(1.003)	159044	25.0000	29
79	Di-n-octylphthalate	149	12.353	12.317	(0.894)	164436	25.0000	27
80	Benzo(b)fluoranthene	252	13.052	13.016	(0.945)	213764	25.0000	29
81	Benzo(k)fluoranthene	252	13.099	13.063	(0.949)	208147	25.0000	28
82	Benzo(a)pyrene	252	13.686	13.651	(0.991)	206012	25.0000	29
* 83	Perylene-d12	264	13.810	13.774	(1.000)	296591	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	16.624	16.589	(1.204)	228341	25.0000	27
85	Dibenzo(a,h)anthracene	278	16.718	16.677	(1.211)	227000	25.0000	30
86	Benzo(g,h,i)perylene	276	17.511	17.470	(1.268)	245483	25.0000	30

QC Flag Legend

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


Data File: \\avogadro\organics\S6,I\130627,B\S6B4711B.d
Date : 27-JUN-2013 14:04
Client ID: SSTD0256B
Sample Info: SSTD0256B,SSTD0256B
Volume Injected (uL): 1.0
Column phase: Rxi-5Sil MS
Instrument: S6,i
Operator: PK SRC: PK
Column diameter: 0.25
Y (x10^5)
Min
-1,4-Dioxane-d8
-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\130627,B\S6B4711B.d

Data File: \\avogadro\organics\S6.I\130627.B\S6B4712.d
Report Date: 28-Jun-2013 14:13

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130627.B\S6B4712.d
Lab Smp Id: SSTD0806B Client Smp ID: SSTD0806B
Inj Date : 27-JUN-2013 14:29
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0806B,SSTD0806B
Misc Info : 1,6
Comment   :
Method   : \\avogadro\organics\S6.I\130627.B\S6_8270C_N.m
Meth Date : 28-Jun-2013 14:12 pkaczorows Quant Type: ISTD
Cal Date : 27-JUN-2013 16:11 Cal File: S6B4716.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: TARGET113

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	AMOUNTS ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109	1,4-Dioxane-d8	96	2.587	2.593	(0.494)	11680	80.0000	82
	108	1,4-Dioxane	58	2.623	2.617	(0.501)	3695	80.0000	80(Q)
	1	N-Nitrosodimethylamine	74	2.905	2.905	(0.555)	26176	80.0000	82(A)
	2	Pyridine	79	2.946	2.957	(0.563)	49795	80.0000	89(A)
$	3	2-Fluorophenol	112	4.139	4.138	(0.790)	64607	80.0000	81
	101	Benzaldehyde	77	4.867	4.867	(0.929)	37992	80.0000	59
$	5	Phenol-d5	99	4.932	4.926	(0.942)	86610	80.0000	80
	6	Phenol	94	4.944	4.938	(0.944)	96367	80.0000	86(A)
	7	Aniline	66	4.938	4.932	(0.943)	62344	80.0000	81(A)
	8	bis(2-Chloroethyl)Ether	63	5.008	5.002	(0.956)	25838	80.0000	73
	10	2-Chlorophenol	128	5.067	5.061	(0.967)	77682	80.0000	80(A)
	11	1,3-Dichlorobenzene	146	5.190	5.190	(0.991)	82826	80.0000	76
*	12	1,4-Dichlorobenzene-d4	152	5.237	5.237	(1.000)	32715	40.0000	(Q)
	13	1,4-Dichlorobenzene	146	5.249	5.249	(1.002)	83908	80.0000	76
	117	2-Ethyl-1-hexanol	57	5.284	5.278	(1.009)	22937	80.0000	81(A)
	15	Benzyl Alcohol	108	5.349	5.343	(1.021)	53686	80.0000	86(A)
	16	1,2-Dichlorobenzene	146	5.378	5.378	(1.027)	79684	80.0000	75
	17	2-Methylphenol	108	5.443	5.437	(1.039)	71484	80.0000	80(A)
	18	2,2'-oxybis(1-Chloropropane)	45	5.455	5.455	(1.042)	18036	80.0000	75(Q)
	99	Acetophenone	105	5.566	5.560	(1.063)	129395	80.0000	84(A)

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.566	5.560	(1.063)	51400	80.0000	83(A)
	20 4-Methylphenol	108	5.566	5.560	(1.063)	85543	80.0000	84(A)
	21 Hexachloroethane	117	5.660	5.660	(1.081)	33463	80.0000	76
$	22 Nitrobenzene-d5	82	5.696	5.690	(0.905)	100475	80.0000	72
	23 Nitrobenzene	77	5.707	5.707	(0.907)	94167	80.0000	71
	24 Isophorone	82	5.907	5.901	(0.938)	154302	80.0000	71
	25 2-Nitrophenol	139	5.978	5.972	(0.950)	54383	80.0000	72
	26 2,4-Dimethylphenol	107	6.007	6.001	(0.954)	99143	80.0000	78
	27 bis(2-Chloroethoxy)methane	93	6.077	6.077	(0.965)	75385	80.0000	70
	28 Benzoic Acid	105	6.101	6.060	(0.969)	87571	80.0000	78
	29 2,4-Dichlorophenol	162	6.177	6.171	(0.981)	93806	80.0000	72
	30 1,2,4-Trichlorobenzene	180	6.248	6.248	(0.993)	98271	80.0000	69
*	31 Naphthalene-d8	136	6.295	6.295	(1.000)	165711	40.0000	
	32 Naphthalene	128	6.313	6.312	(1.003)	258527	80.0000	70
	115 alpha-Terpineol	59	6.313	6.312	(1.003)	34372	80.0000	74
	33 4-Chloroaniline	127	6.354	6.348	(1.009)	112734	80.0000	72
	34 Hexachlorobutadiene	225	6.418	6.418	(1.020)	56873	80.0000	65
	102 Caprolactam	113	6.659	6.624	(1.058)	35375	80.0000	74
	35 4-Chloro-3-Methylphenol	107	6.753	6.747	(1.073)	86614	80.0000	68
	36 2-Methylnaphthalene	142	6.888	6.882	(1.094)	204756	80.0000	70
	114 1-Methylnaphthalene	142	6.971	6.971	(1.107)	193737	80.0000	71
	38 Hexachlorocyclopentadiene	237	7.023	7.023	(0.905)	65991	80.0000	82(A)
	112 1,2,4,5-Tetrachlorobenzene	216	7.029	7.029	(0.905)	113475	80.0000	74
	39 2,4,6-Trichlorophenol	196	7.123	7.117	(0.918)	85740	80.0000	81(A)
	40 2,4,5-Trichlorophenol	196	7.153	7.147	(0.921)	87345	80.0000	78
$	41 2-Fluorobiphenyl	172	7.188	7.182	(0.926)	267084	80.0000	79
	98 1,1'-Biphenyl	154	7.276	7.270	(0.937)	284532	80.0000	76
	42 2-Chloronaphthalene	162	7.294	7.294	(0.939)	217786	80.0000	78
	43 2-Nitroaniline	65	7.376	7.370	(0.950)	62681	80.0000	80
	44 Dimethylphthalate	163	7.523	7.511	(0.969)	287557	80.0000	78
	45 2,6-Dinitrotoluene	165	7.570	7.564	(0.975)	68053	80.0000	77
	46 Acenaphthylene	152	7.646	7.640	(0.985)	369358	80.0000	78
	47 3-Nitroaniline	138	7.717	7.711	(0.994)	71211	80.0000	80(A)
*	48 Acenaphthene-d10	164	7.764	7.758	(1.000)	112647	40.0000	
	49 Acenaphthene	153	7.787	7.781	(1.003)	244195	80.0000	77
	50 2,4-Dinitrophenol	184	7.799	7.793	(1.005)	53586	80.0000	90(AQ)
	51 4-Nitrophenol	109	7.852	7.840	(1.011)	76049	80.0000	77
	53 2,4-Dinitrotoluene	165	7.911	7.899	(1.019)	97813	80.0000	79
	52 Dibenzofuran	168	7.934	7.928	(1.022)	342066	80.0000	77
	110 2,3,4,6-Tetrachlorophenol	232	8.034	8.028	(1.035)	83508	80.0000	79
	54 Diethylphthalate	149	8.105	8.099	(1.044)	282770	80.0000	77
	56 4-Chlorophenyl-phenylether	204	8.210	8.204	(1.058)	158783	80.0000	78
	55 Fluorene	166	8.216	8.210	(1.058)	305255	80.0000	80
	57 4-Nitroaniline	138	8.234	8.216	(1.061)	81312	80.0000	81(A)
	58 4,6-Dinitro-2-methylphenol	198	8.251	8.245	(0.916)	75006	80.0000	82(AQ)
	59 N-Nitrosodiphenylamine	169	8.304	8.298	(0.922)	267263	80.0000	76
	97 Azobenzene	77	8.340	8.340	(0.926)	306058	80.0000	75
$	60 2,4,6-Tribromophenol	330	8.422	8.416	(0.935)	52618	80.0000	79
	61 4-Bromophenyl-phenylether	248	8.616	8.616	(0.956)	97626	80.0000	74
	62 Hexachlorobenzene	284	8.686	8.680	(0.964)	111047	80.0000	77
	100 Atrazine	200	8.739	8.739	(0.970)	25548	80.0000	47
	63 Pentachlorophenol	266	8.845	8.845	(0.982)	78010	80.0000	83(A)
	111 Pentachloronitrobenzene	237	8.863	8.857	(0.984)	48677	80.0000	76
*	64 Phenanthrene-d10	188	9.009	8.998	(1.000)	270228	40.0000	

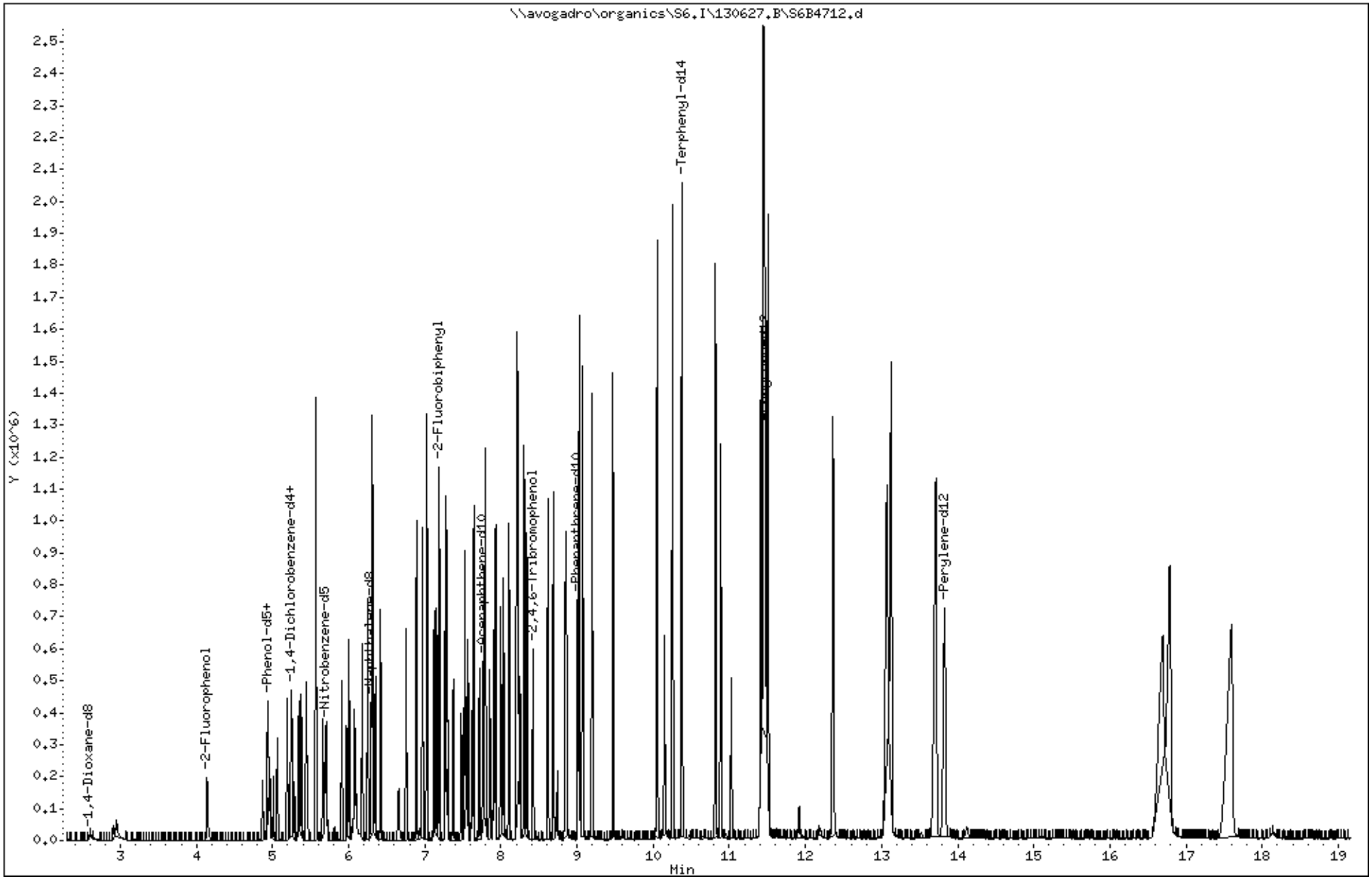
Data File: \\avogadro\organics\S6.I\130627.B\S6B4712.d
Report Date: 28-Jun-2013 14:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.027	9.021	(1.002)	499219	80.0000	78
66	Anthracene	178	9.068	9.062	(1.007)	517339	80.0000	78
67	Carbazole	167	9.197	9.191	(1.021)	487274	80.0000	79
68	Di-n-butylphthalate	149	9.474	9.462	(1.052)	558263	80.0000	80
69	Fluoranthene	202	10.049	10.032	(1.115)	677567	80.0000	80
70	Benzidine	184	10.149	10.143	(0.884)	194260	80.0000	73
71	Pyrene	202	10.255	10.231	(0.894)	704206	80.0000	70
$ 72	Terphenyl-d14	244	10.373	10.349	(0.904)	505436	80.0000	70
73	Butylbenzylphthalate	149	10.819	10.790	(0.943)	316403	80.0000	72
74	3,3'-Dichlorobenzidine	252	11.418	11.377	(0.995)	361032	80.0000	76
78	bis(2-Ethylhexyl)phthalate	149	11.448	11.412	(0.997)	501944	80.0000	76
75	Benzo(a)anthracene	228	11.460	11.424	(0.998)	899394	80.0000	74
* 76	Chrysene-d12	240	11.477	11.436	(1.000)	491758	40.0000	
77	Chrysene	228	11.507	11.465	(1.003)	799081	80.0000	73
79	Di-n-octylphthalate	149	12.364	12.317	(0.894)	859244	80.0000	72
80	Benzo(b)fluoranthene	252	13.075	13.016	(0.946)	1034941	80.0000	73
81	Benzo(k)fluoranthene	252	13.128	13.063	(0.949)	1083460	80.0000	75
82	Benzo(a)pyrene	252	13.716	13.651	(0.992)	1053225	80.0000	76
* 83	Perylene-d12	264	13.827	13.774	(1.000)	573366	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	16.689	16.589	(1.207)	1436927	80.0000	87(A)
85	Dibenzo(a,h)anthracene	278	16.789	16.677	(1.214)	1132730	80.0000	77
86	Benzo(g,h,i)perylene	276	17.594	17.470	(1.272)	1223577	80.0000	78

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\S6.I\130627.B\S6B4712.d
Date : 27-JUN-2013 14:29
Client ID: SSTD0806B
Instrument: S6.i
Sample Info: SSTD0806B,SSTD0806B
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130627.B\S6B4713.d
Report Date: 28-Jun-2013 14:13

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130627.B\S6B4713.d
Lab Smp Id: SSTD0056B Client Smp ID: SSTD0056B
Inj Date : 27-JUN-2013 14:55
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0056B,SSTD0056B
Misc Info : 1,1
Comment   :
Method   : \\avogadro\organics\S6.I\130627.B\S6_8270C_N.m
Meth Date : 28-Jun-2013 14:12 pkaczorows Quant Type: ISTD
Cal Date : 27-JUN-2013 16:11 Cal File: S6B4716.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: TARGET113

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	AMOUNTS ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
$	109	1,4-Dioxane-d8	96	2.599	2.593	(0.496)	659	5.00000	4(a)
	108	1,4-Dioxane	58	2.634	2.617	(0.503)	324	5.00000	6(aQ)
	1	N-Nitrosodimethylamine	74	2.916	2.905	(0.557)	1331	5.00000	4(a)
	2	Pyridine	79	2.969	2.957	(0.567)	1368	5.00000	2(TaQ)
$	3	2-Fluorophenol	112	4.144	4.138	(0.791)	3665	5.00000	4(aQ)
	101	Benzaldehyde	77	4.867	4.867	(0.929)	3144	5.00000	4(a)
$	5	Phenol-d5	99	4.926	4.926	(0.941)	5189	5.00000	4(a)
	6	Phenol	94	4.937	4.938	(0.943)	4732	5.00000	4(a)
	7	Aniline	66	4.932	4.932	(0.942)	3522	5.00000	4(a)
	8	bis(2-Chloroethyl)Ether	63	5.008	5.002	(0.956)	1652	5.00000	4(a)
	10	2-Chlorophenol	128	5.061	5.061	(0.966)	4740	5.00000	5(a)
	11	1,3-Dichlorobenzene	146	5.190	5.190	(0.991)	4958	5.00000	4(a)
*	12	1,4-Dichlorobenzene-d4	152	5.237	5.237	(1.000)	34612	40.0000	
	13	1,4-Dichlorobenzene	146	5.249	5.249	(1.002)	5183	5.00000	4(aQ)
	117	2-Ethyl-1-hexanol	57	5.278	5.278	(1.008)	1372	5.00000	4(TaQ)
	15	Benzyl Alcohol	108	5.343	5.343	(1.020)	2628	5.00000	4(a)
	16	1,2-Dichlorobenzene	146	5.378	5.378	(1.027)	5633	5.00000	5(a)
	17	2-Methylphenol	108	5.437	5.437	(1.038)	4335	5.00000	5(a)
	18	2,2'-oxybis(1-Chloropropane)	45	5.454	5.455	(1.042)	1309	5.00000	5(aQ)
	99	Acetophenone	105	5.560	5.560	(1.062)	7125	5.00000	4(a)

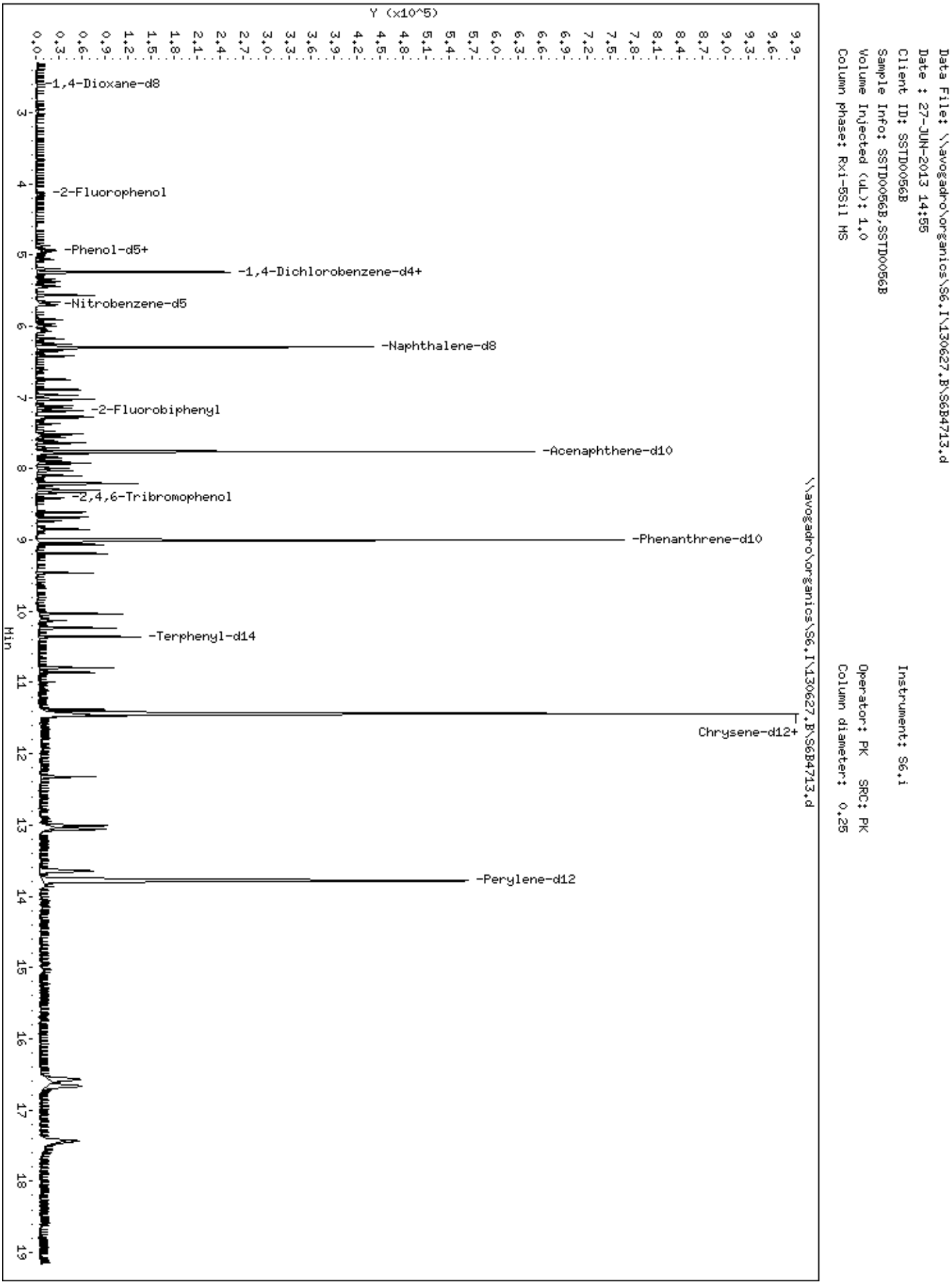
							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.560	5.560	(1.062)	3181	5.00000	5(TaQ)
	20 4-Methylphenol	108	5.560	5.560	(1.062)	4644	5.00000	4(a)
	21 Hexachloroethane	117	5.660	5.660	(1.081)	2494	5.00000	5(a)
$	22 Nitrobenzene-d5	82	5.689	5.690	(0.904)	6260	5.00000	5(a)
	23 Nitrobenzene	77	5.707	5.707	(0.907)	6327	5.00000	6(Ta)
	24 Isophorone	82	5.901	5.901	(0.937)	9561	5.00000	5(a)
	25 2-Nitrophenol	139	5.972	5.972	(0.949)	3386	5.00000	5(a)
	26 2,4-Dimethylphenol	107	6.001	6.001	(0.953)	4472	5.00000	4(a)
	27 bis(2-Chloroethoxy)methane	93	6.077	6.077	(0.965)	4841	5.00000	5(a)
	28 Benzoic Acid	105	6.042	6.060	(0.960)	4485	5.00000	5(a)
	29 2,4-Dichlorophenol	162	6.171	6.171	(0.980)	5996	5.00000	5(a)
	30 1,2,4-Trichlorobenzene	180	6.248	6.248	(0.993)	6613	5.00000	6(a)
*	31 Naphthalene-d8	136	6.295	6.295	(1.000)	139636	40.0000	
	32 Naphthalene	128	6.312	6.312	(1.003)	15758	5.00000	5(a)
	115 alpha-Terpineol	59	6.312	6.312	(1.003)	2178	5.00000	6(a)
	33 4-Chloroaniline	127	6.348	6.348	(1.008)	7200	5.00000	5(a)
	34 Hexachlorobutadiene	225	6.418	6.418	(1.020)	4807	5.00000	6(a)
	102 Caprolactam	113	6.618	6.624	(1.051)	2020	5.00000	5(a)
	35 4-Chloro-3-Methylphenol	107	6.747	6.747	(1.072)	5634	5.00000	5(a)
	36 2-Methylnaphthalene	142	6.888	6.882	(1.094)	13397	5.00000	5(a)
	114 1-Methylnaphthalene	142	6.970	6.971	(1.107)	12192	5.00000	5(a)
	38 Hexachlorocyclopentadiene	237	7.023	7.023	(0.905)	3412	5.00000	4(Ta)
	112 1,2,4,5-Tetrachlorobenzene	216	7.029	7.029	(0.906)	8166	5.00000	5(a)
	39 2,4,6-Trichlorophenol	196	7.117	7.117	(0.917)	5105	5.00000	5(a)
	40 2,4,5-Trichlorophenol	196	7.147	7.147	(0.921)	5296	5.00000	5(a)
$	41 2-Fluorobiphenyl	172	7.188	7.182	(0.927)	16033	5.00000	5(a)
	98 1,1'-Biphenyl	154	7.270	7.270	(0.937)	18982	5.00000	5(a)
	42 2-Chloronaphthalene	162	7.288	7.294	(0.939)	13670	5.00000	5(a)
	43 2-Nitroaniline	65	7.370	7.370	(0.950)	3798	5.00000	5(a)
	44 Dimethylphthalate	163	7.511	7.511	(0.968)	17536	5.00000	5(a)
	45 2,6-Dinitrotoluene	165	7.564	7.564	(0.975)	4219	5.00000	5(a)
	46 Acenaphthylene	152	7.640	7.640	(0.985)	24020	5.00000	5(a)
	47 3-Nitroaniline	138	7.705	7.711	(0.993)	4308	5.00000	5(a)
*	48 Acenaphthene-d10	164	7.758	7.758	(1.000)	113864	40.0000	
	49 Acenaphthene	153	7.781	7.781	(1.003)	15586	5.00000	5(a)
	50 2,4-Dinitrophenol	184	7.793	7.793	(1.005)	1628	5.00000	3(aQ)
	51 4-Nitrophenol	109	7.840	7.840	(1.011)	4801	5.00000	5(a)
	53 2,4-Dinitrotoluene	165	7.899	7.899	(1.018)	6198	5.00000	5(a)
	52 Dibenzofuran	168	7.928	7.928	(1.022)	22183	5.00000	5(a)
	110 2,3,4,6-Tetrachlorophenol	232	8.028	8.028	(1.035)	5241	5.00000	5
	54 Diethylphthalate	149	8.098	8.099	(1.044)	17965	5.00000	5(a)
	56 4-Chlorophenyl-phenylether	204	8.204	8.204	(1.058)	9444	5.00000	4(a)
	55 Fluorene	166	8.210	8.210	(1.058)	17570	5.00000	4(a)
	57 4-Nitroaniline	138	8.216	8.216	(1.059)	4377	5.00000	4(a)
	58 4,6-Dinitro-2-methylphenol	198	8.239	8.245	(0.916)	2919	5.00000	3(aQ)
	59 N-Nitrosodiphenylamine	169	8.298	8.298	(0.922)	15827	5.00000	5(a)
	97 Azobenzene	77	8.333	8.340	(0.926)	19469	5.00000	5(a)
$	60 2,4,6-Tribromophenol	330	8.416	8.416	(0.935)	2772	5.00000	4(aQ)
	61 4-Bromophenyl-phenylether	248	8.616	8.616	(0.958)	6430	5.00000	5(a)
	62 Hexachlorobenzene	284	8.680	8.680	(0.965)	6971	5.00000	5(a)
	100 Atrazine	200	8.733	8.739	(0.971)	3288	5.00000	6(TaQ)
	63 Pentachlorophenol	266	8.845	8.845	(0.983)	3251	5.00000	4(a)
	111 Pentachloronitrobenzene	237	8.851	8.857	(0.984)	3425	5.00000	6(a)
*	64 Phenanthrene-d10	188	8.997	8.998	(1.000)	263519	40.0000	

Data File: \\avogadro\organics\S6.I\130627.B\S6B4713.d
Report Date: 28-Jun-2013 14:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.021	9.021	(1.003)	29083	5.00000	5(a)
66	Anthracene	178	9.062	9.062	(1.007)	30569	5.00000	5(a)
67	Carbazole	167	9.191	9.191	(1.022)	28292	5.00000	5(a)
68	Di-n-butylphthalate	149	9.467	9.462	(1.052)	30569	5.00000	4(a)
69	Fluoranthene	202	10.032	10.032	(1.115)	38246	5.00000	5(a)
70	Benzidine	184	10.131	10.143	(0.885)	12149	5.00000	5(Ta)
71	Pyrene	202	10.237	10.231	(0.895)	39576	5.00000	5(a)
$ 72	Terphenyl-d14	244	10.355	10.349	(0.905)	28375	5.00000	5(a)
73	Butylbenzylphthalate	149	10.795	10.790	(0.944)	16580	5.00000	4(a)
74	3,3'-Dichlorobenzidine	252	11.377	11.377	(0.994)	19314	5.00000	5(a)
78	bis(2-Ethylhexyl)phthalate	149	11.418	11.412	(0.998)	27135	5.00000	5(a)
75	Benzo(a)anthracene	228	11.430	11.424	(0.999)	48860	5.00000	5(a)
* 76	Chrysene-d12	240	11.442	11.436	(1.000)	410520	40.0000	
77	Chrysene	228	11.471	11.465	(1.003)	45857	5.00000	5(a)
79	Di-n-octylphthalate	149	12.323	12.317	(0.894)	45627	5.00000	5(a)
80	Benzo(b)fluoranthene	252	13.010	13.016	(0.944)	56823	5.00000	5(a)
81	Benzo(k)fluoranthene	252	13.063	13.063	(0.948)	55199	5.00000	5(a)
82	Benzo(a)pyrene	252	13.645	13.651	(0.990)	53741	5.00000	5(a)
* 83	Perylene-d12	264	13.780	13.774	(1.000)	454136	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	16.583	16.589	(1.203)	56331	5.00000	4(a)
85	Dibenzo(a,h)anthracene	278	16.665	16.677	(1.209)	51820	5.00000	4(a)
86	Benzo(g,h,i)perylene	276	17.446	17.470	(1.266)	59782	5.00000	5(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.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Date : 27-JUN-2013 14:55
Client ID: SSTD0056B
Sample Info: SSTD0056B,SSTD0056B
Volume Injected (uL): 1.0
Column phase: Rxi-5Sil MS
Instrument: S6.i
Operator: PK SRC: PK
Column diameter: 0.25
Y (x10^5)
Min
-1,4-Dioxane-d8
-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\130627.B\S6B4713.d

Data File: \\avogadro\organics\S6.I\130627.B\S6B4714.d
Report Date: 28-Jun-2013 14:13

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130627.B\S6B4714.d
Lab Smp Id: SSTD0606B Client Smp ID: SSTD0606B
Inj Date : 27-JUN-2013 15:20
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0606B,SSTD0606B
Misc Info : 1,5
Comment   :
Method   : \\avogadro\organics\S6.I\130627.B\S6_8270C_N.m
Meth Date : 28-Jun-2013 14:12 pkaczorows Quant Type: ISTD
Cal Date : 27-JUN-2013 16:11 Cal File: S6B4716.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	2.593	2.593	(0.495)	12352	60.0000	68
	108	1,4-Dioxane	58	2.622	2.617	(0.501)	3226	60.0000	54(Q)
	1	N-Nitrosodimethylamine	74	2.904	2.905	(0.555)	26369	60.0000	64
	2	Pyridine	79	2.946	2.957	(0.562)	47237	60.0000	65(T)
$	3	2-Fluorophenol	112	4.138	4.138	(0.790)	63036	60.0000	62
	101	Benzaldehyde	77	4.867	4.867	(0.929)	47795	60.0000	57
$	5	Phenol-d5	99	4.932	4.926	(0.942)	82701	60.0000	59
	6	Phenol	94	4.943	4.938	(0.944)	87662	60.0000	61
	7	Aniline	66	4.943	4.932	(0.944)	59566	60.0000	60
	8	bis(2-Chloroethyl)Ether	63	5.008	5.002	(0.956)	26772	60.0000	59
	10	2-Chlorophenol	128	5.067	5.061	(0.967)	74038	60.0000	60
	11	1,3-Dichlorobenzene	146	5.190	5.190	(0.991)	84765	60.0000	60
*	12	1,4-Dichlorobenzene-d4	152	5.237	5.237	(1.000)	42070	40.0000	(Q)
	13	1,4-Dichlorobenzene	146	5.249	5.249	(1.002)	84112	60.0000	60
	117	2-Ethyl-1-hexanol	57	5.284	5.278	(1.009)	21522	60.0000	59
	15	Benzyl Alcohol	108	5.349	5.343	(1.021)	52996	60.0000	66
	16	1,2-Dichlorobenzene	146	5.378	5.378	(1.027)	81121	60.0000	60
	17	2-Methylphenol	108	5.443	5.437	(1.039)	70525	60.0000	62
	18	2,2'-oxybis(1-Chloropropane)	45	5.454	5.455	(1.042)	18160	60.0000	59
	99	Acetophenone	105	5.566	5.560	(1.063)	124763	60.0000	63

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.566	5.560	(1.063)	48754	60.0000	61
	20 4-Methylphenol	108	5.566	5.560	(1.063)	76498	60.0000	58
	21 Hexachloroethane	117	5.666	5.660	(1.082)	33764	60.0000	59
$	22 Nitrobenzene-d5	82	5.695	5.690	(0.905)	96251	60.0000	57
	23 Nitrobenzene	77	5.707	5.707	(0.907)	87139	60.0000	54
	24 Isophorone	82	5.907	5.901	(0.938)	143836	60.0000	55
	25 2-Nitrophenol	139	5.977	5.972	(0.950)	48169	60.0000	53
	26 2,4-Dimethylphenol	107	6.007	6.001	(0.954)	95019	60.0000	61
	27 bis(2-Chloroethoxy)methane	93	6.077	6.077	(0.965)	70422	60.0000	54
	28 Benzoic Acid	105	6.101	6.060	(0.969)	80181	60.0000	59
	29 2,4-Dichlorophenol	162	6.177	6.171	(0.981)	86664	60.0000	54
	30 1,2,4-Trichlorobenzene	180	6.248	6.248	(0.993)	94215	60.0000	54
*	31 Naphthalene-d8	136	6.295	6.295	(1.000)	200760	40.0000	
	32 Naphthalene	128	6.312	6.312	(1.003)	249282	60.0000	56
	115 alpha-Terpineol	59	6.312	6.312	(1.003)	33587	60.0000	59
	33 4-Chloroaniline	127	6.353	6.348	(1.009)	103258	60.0000	54
	34 Hexachlorobutadiene	225	6.418	6.418	(1.020)	54752	60.0000	52
	102 Caprolactam	113	6.653	6.624	(1.057)	31846	60.0000	55
	35 4-Chloro-3-Methylphenol	107	6.753	6.747	(1.073)	82608	60.0000	54
	36 2-Methylnaphthalene	142	6.888	6.882	(1.094)	191105	60.0000	54
	114 1-Methylnaphthalene	142	6.970	6.971	(1.107)	178151	60.0000	54
	38 Hexachlorocyclopentadiene	237	7.023	7.023	(0.905)	64578	60.0000	64
	112 1,2,4,5-Tetrachlorobenzene	216	7.029	7.029	(0.906)	110487	60.0000	58
	39 2,4,6-Trichlorophenol	196	7.123	7.117	(0.918)	77575	60.0000	58
	40 2,4,5-Trichlorophenol	196	7.152	7.147	(0.922)	81720	60.0000	58
$	41 2-Fluorobiphenyl	172	7.188	7.182	(0.927)	251933	60.0000	60
	98 1,1'-Biphenyl	154	7.270	7.270	(0.937)	270756	60.0000	58
	42 2-Chloronaphthalene	162	7.294	7.294	(0.940)	197311	60.0000	57
	43 2-Nitroaniline	65	7.370	7.370	(0.950)	56305	60.0000	57
	44 Dimethylphthalate	163	7.523	7.511	(0.970)	264831	60.0000	58
	45 2,6-Dinitrotoluene	165	7.570	7.564	(0.976)	62084	60.0000	57
	46 Acenaphthylene	152	7.640	7.640	(0.985)	338508	60.0000	58
	47 3-Nitroaniline	138	7.717	7.711	(0.995)	63764	60.0000	58
*	48 Acenaphthene-d10	164	7.758	7.758	(1.000)	140448	40.0000	
	49 Acenaphthene	153	7.787	7.781	(1.004)	223961	60.0000	57
	50 2,4-Dinitrophenol	184	7.799	7.793	(1.005)	46366	60.0000	62
	51 4-Nitrophenol	109	7.846	7.840	(1.011)	70096	60.0000	57
	53 2,4-Dinitrotoluene	165	7.905	7.899	(1.019)	88531	60.0000	57
	52 Dibenzofuran	168	7.928	7.928	(1.022)	317339	60.0000	57
	110 2,3,4,6-Tetrachlorophenol	232	8.034	8.028	(1.036)	76085	60.0000	57
	54 Diethylphthalate	149	8.104	8.099	(1.045)	259558	60.0000	57
	56 4-Chlorophenyl-phenylether	204	8.204	8.204	(1.058)	149318	60.0000	58
	55 Fluorene	166	8.216	8.210	(1.059)	280644	60.0000	59
	57 4-Nitroaniline	138	8.228	8.216	(1.061)	74890	60.0000	60
	58 4,6-Dinitro-2-methylphenol	198	8.251	8.245	(0.916)	65394	60.0000	62(Q)
	59 N-Nitrosodiphenylamine	169	8.304	8.298	(0.922)	243244	60.0000	60
	97 Azobenzene	77	8.339	8.340	(0.926)	281686	60.0000	59
$	60 2,4,6-Tribromophenol	330	8.416	8.416	(0.935)	47978	60.0000	62
	61 4-Bromophenyl-phenylether	248	8.616	8.616	(0.957)	92083	60.0000	60
	62 Hexachlorobenzene	284	8.686	8.680	(0.965)	99472	60.0000	60
	100 Atrazine	200	8.739	8.739	(0.971)	22383	60.0000	36
	63 Pentachlorophenol	266	8.845	8.845	(0.982)	68314	60.0000	63
	111 Pentachloronitrobenzene	237	8.856	8.857	(0.984)	42867	60.0000	58
*	64 Phenanthrene-d10	188	9.003	8.998	(1.000)	313115	40.0000	

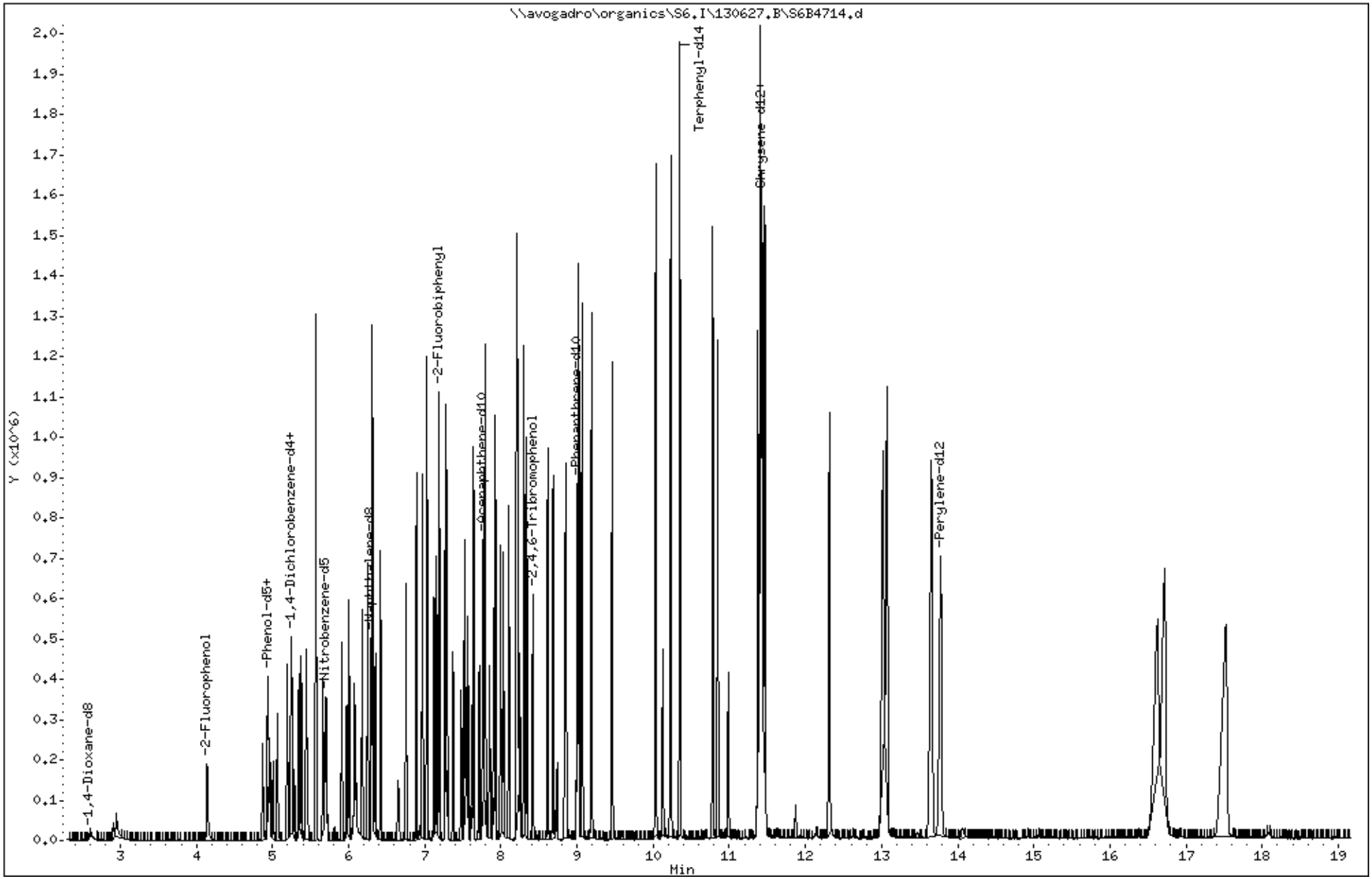
Data File: \\avogadro\organics\S6.I\130627.B\S6B4714.d
Report Date: 28-Jun-2013 14:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.021	9.021	(1.002)	442234	60.0000	59
66	Anthracene	178	9.062	9.062	(1.007)	467907	60.0000	61
67	Carbazole	167	9.191	9.191	(1.021)	423289	60.0000	59
68	Di-n-butylphthalate	149	9.462	9.462	(1.051)	491154	60.0000	60
69	Fluoranthene	202	10.032	10.032	(1.114)	590342	60.0000	60
70	Benzidine	184	10.131	10.143	(0.886)	157038	60.0000	57
71	Pyrene	202	10.231	10.231	(0.895)	606056	60.0000	58
$ 72	Terphenyl-d14	244	10.349	10.349	(0.905)	436490	60.0000	58
73	Butylbenzylphthalate	149	10.784	10.790	(0.943)	274520	60.0000	60
74	3,3'-Dichlorobenzidine	252	11.377	11.377	(0.995)	286121	60.0000	58
78	bis(2-Ethylhexyl)phthalate	149	11.406	11.412	(0.997)	411480	60.0000	60
75	Benzo(a)anthracene	228	11.418	11.424	(0.998)	730401	60.0000	58
* 76	Chrysene-d12	240	11.436	11.436	(1.000)	511225	40.0000	
77	Chrysene	228	11.465	11.465	(1.003)	647581	60.0000	57
79	Di-n-octylphthalate	149	12.311	12.317	(0.893)	689240	60.0000	58
80	Benzo(b)fluoranthene	252	13.022	13.016	(0.945)	801739	60.0000	56
81	Benzo(k)fluoranthene	252	13.075	13.063	(0.949)	847949	60.0000	59
82	Benzo(a)pyrene	252	13.657	13.651	(0.991)	806689	60.0000	58
* 83	Perylene-d12	264	13.780	13.774	(1.000)	575994	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	16.624	16.589	(1.206)	1093375	60.0000	66
85	Dibenzo(a,h)anthracene	278	16.718	16.677	(1.213)	875888	60.0000	59
86	Benzo(g,h,i)perylene	276	17.523	17.470	(1.272)	913257	60.0000	58

QC Flag Legend

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

Data File: \\avogadro\organics\S6.I\130627.B\S6B4714.d
Date : 27-JUN-2013 15:20
Client ID: SSTD0606B
Instrument: S6.i
Sample Info: SSTD0606B,SSTD0606B
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130627.B\S6B4715.d
Report Date: 28-Jun-2013 14:13

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130627.B\S6B4715.d
Lab Smp Id: SSTD0106B Client Smp ID: SSTD0106B
Inj Date : 27-JUN-2013 15:45
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0106B,SSTD0106B
Misc Info : 1,2
Comment   :
Method   : \\avogadro\organics\S6.I\130627.B\S6_8270C_N.m
Meth Date : 28-Jun-2013 14:12 pkaczorows Quant Type: ISTD
Cal Date : 27-JUN-2013 16:11 Cal File: S6B4716.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	2.593	2.593	(0.495)	1675	10.0000	7(a)
	108	1,4-Dioxane	58	2.629	2.617	(0.502)	880	10.0000	11(Q)
	1	N-Nitrosodimethylamine	74	2.916	2.905	(0.557)	5993	10.0000	11
	2	Pyridine	79	2.958	2.957	(0.565)	9950	10.0000	10(T)
$	3	2-Fluorophenol	112	4.139	4.138	(0.790)	13861	10.0000	10
	101	Benzaldehyde	77	4.867	4.867	(0.929)	15164	10.0000	14
$	5	Phenol-d5	99	4.926	4.926	(0.941)	18619	10.0000	10
	6	Phenol	94	4.938	4.938	(0.943)	18858	10.0000	10
	7	Aniline	66	4.938	4.932	(0.943)	13495	10.0000	10
	8	bis(2-Chloroethyl)Ether	63	5.002	5.002	(0.955)	6439	10.0000	10
	10	2-Chlorophenol	128	5.061	5.061	(0.966)	17310	10.0000	10
	11	1,3-Dichlorobenzene	146	5.190	5.190	(0.991)	20499	10.0000	11
*	12	1,4-Dichlorobenzene-d4	152	5.237	5.237	(1.000)	56273	40.0000	
	13	1,4-Dichlorobenzene	146	5.249	5.249	(1.002)	19345	10.0000	10
	117	2-Ethyl-1-hexanol	57	5.278	5.278	(1.008)	4959	10.0000	10
	15	Benzyl Alcohol	108	5.343	5.343	(1.020)	10076	10.0000	9(a)
	16	1,2-Dichlorobenzene	146	5.378	5.378	(1.027)	17874	10.0000	10
	17	2-Methylphenol	108	5.437	5.437	(1.038)	14372	10.0000	9(a)
	18	2,2'-oxybis(1-Chloropropane)	45	5.455	5.455	(1.042)	4491	10.0000	11(Q)
	99	Acetophenone	105	5.566	5.560	(1.063)	23918	10.0000	9(a)

Data File: \\avogadro\organics\S6.I\130627.B\S6B4715.d
Report Date: 28-Jun-2013 14:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
19	N-Nitroso-di-n-propylamine	70	5.560	5.560	(1.062)	9769	10.0000	9(a)
20	4-Methylphenol	108	5.560	5.560	(1.062)	17046	10.0000	10
21	Hexachloroethane	117	5.666	5.660	(1.082)	7185	10.0000	9(a)
$ 22	Nitrobenzene-d5	82	5.690	5.690	(0.904)	20386	10.0000	11
23	Nitrobenzene	77	5.707	5.707	(0.907)	19376	10.0000	11
24	Isophorone	82	5.901	5.901	(0.937)	29857	10.0000	10
25	2-Nitrophenol	139	5.972	5.972	(0.949)	10804	10.0000	10
26	2,4-Dimethylphenol	107	6.001	6.001	(0.953)	16744	10.0000	10
27	bis(2-Chloroethoxy)methane	93	6.077	6.077	(0.965)	16222	10.0000	11
28	Benzoic Acid	105	6.066	6.060	(0.964)	16595	10.0000	11(a)
29	2,4-Dichlorophenol	162	6.171	6.171	(0.980)	18181	10.0000	10
30	1,2,4-Trichlorobenzene	180	6.248	6.248	(0.993)	21188	10.0000	11
* 31	Naphthalene-d8	136	6.295	6.295	(1.000)	227682	40.0000	
32	Naphthalene	128	6.313	6.312	(1.003)	55106	10.0000	11
115	alpha-Terpineol	59	6.313	6.312	(1.003)	6489	10.0000	10(Q)
33	4-Chloroaniline	127	6.348	6.348	(1.008)	23740	10.0000	11
34	Hexachlorobutadiene	225	6.418	6.418	(1.020)	12784	10.0000	11
102	Caprolactam	113	6.624	6.624	(1.052)	7191	10.0000	11
35	4-Chloro-3-Methylphenol	107	6.747	6.747	(1.072)	18024	10.0000	10
36	2-Methylnaphthalene	142	6.888	6.882	(1.094)	41810	10.0000	10
114	1-Methylnaphthalene	142	6.971	6.971	(1.107)	40247	10.0000	11
38	Hexachlorocyclopentadiene	237	7.023	7.023	(0.905)	13432	10.0000	11
112	1,2,4,5-Tetrachlorobenzene	216	7.029	7.029	(0.906)	23915	10.0000	10
39	2,4,6-Trichlorophenol	196	7.117	7.117	(0.917)	16153	10.0000	10
40	2,4,5-Trichlorophenol	196	7.153	7.147	(0.922)	18332	10.0000	10(a)
$ 41	2-Fluorobiphenyl	172	7.188	7.182	(0.927)	52747	10.0000	10
98	1,1'-Biphenyl	154	7.270	7.270	(0.937)	61130	10.0000	10
42	2-Chloronaphthalene	162	7.288	7.294	(0.939)	45993	10.0000	10
43	2-Nitroaniline	65	7.364	7.370	(0.949)	11493	10.0000	9(a)
44	Dimethylphthalate	163	7.511	7.511	(0.968)	59750	10.0000	10
45	2,6-Dinitrotoluene	165	7.564	7.564	(0.975)	13391	10.0000	10
46	Acenaphthylene	152	7.640	7.640	(0.985)	74867	10.0000	10
47	3-Nitroaniline	138	7.705	7.711	(0.993)	12895	10.0000	9(a)
* 48	Acenaphthene-d10	164	7.758	7.758	(1.000)	176939	40.0000	
49	Acenaphthene	153	7.781	7.781	(1.003)	49357	10.0000	10
50	2,4-Dinitrophenol	184	7.793	7.793	(1.005)	7521	10.0000	8(aQ)
51	4-Nitrophenol	109	7.840	7.840	(1.011)	15149	10.0000	10(a)
53	2,4-Dinitrotoluene	165	7.899	7.899	(1.018)	18557	10.0000	10
52	Dibenzofuran	168	7.928	7.928	(1.022)	72539	10.0000	10
110	2,3,4,6-Tetrachlorophenol	232	8.028	8.028	(1.035)	16912	10.0000	10
54	Diethylphthalate	149	8.099	8.099	(1.044)	59284	10.0000	10
56	4-Chlorophenyl-phenylether	204	8.204	8.204	(1.058)	32567	10.0000	10
55	Fluorene	166	8.210	8.210	(1.058)	59888	10.0000	10
57	4-Nitroaniline	138	8.216	8.216	(1.059)	15455	10.0000	10(a)
58	4,6-Dinitro-2-methylphenol	198	8.246	8.245	(0.916)	12631	10.0000	9(aQ)
59	N-Nitrosodiphenylamine	169	8.298	8.298	(0.922)	54286	10.0000	10
97	Azobenzene	77	8.334	8.340	(0.926)	63247	10.0000	10
$ 60	2,4,6-Tribromophenol	330	8.410	8.416	(0.935)	11076	10.0000	11
61	4-Bromophenyl-phenylether	248	8.610	8.616	(0.957)	21130	10.0000	10
62	Hexachlorobenzene	284	8.680	8.680	(0.965)	22023	10.0000	10
100	Atrazine	200	8.733	8.739	(0.971)	10259	10.0000	12
63	Pentachlorophenol	266	8.839	8.845	(0.982)	12146	10.0000	8(a)
111	Pentachloronitrobenzene	237	8.851	8.857	(0.984)	9298	10.0000	10
* 64	Phenanthrene-d10	188	8.998	8.998	(1.000)	409768	40.0000	

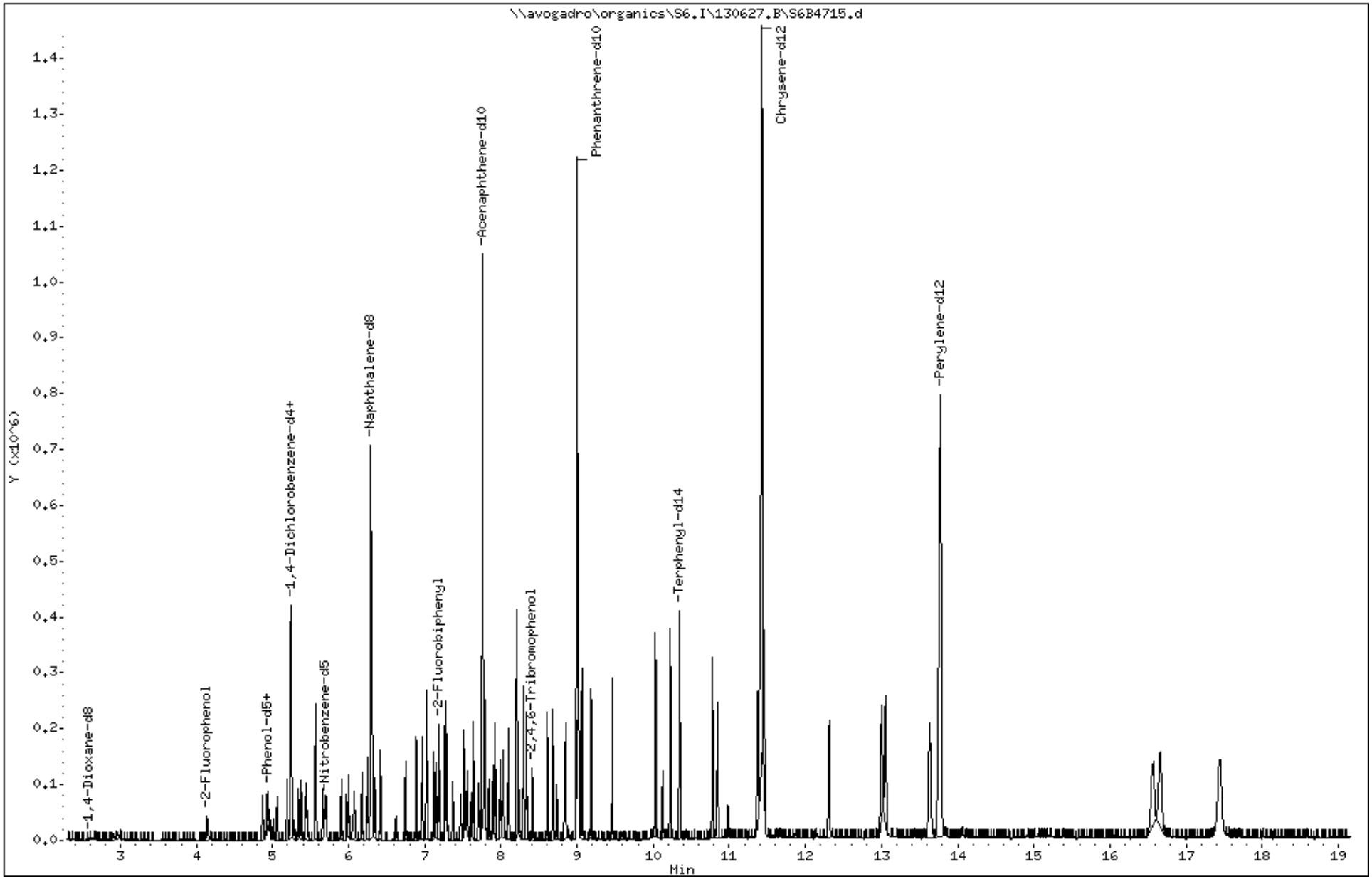
Data File: \\avogadro\organics\S6.I\130627.B\S6B4715.d
Report Date: 28-Jun-2013 14:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.021	9.021	(1.003)	99153	10.0000	10
66	Anthracene	178	9.062	9.062	(1.007)	100409	10.0000	10
67	Carbazole	167	9.186	9.191	(1.021)	93531	10.0000	10
68	Di-n-butylphthalate	149	9.462	9.462	(1.052)	105869	10.0000	10
69	Fluoranthene	202	10.026	10.032	(1.114)	128095	10.0000	10
70	Benzidine	184	10.126	10.143	(0.886)	35632	10.0000	11(a)
71	Pyrene	202	10.226	10.231	(0.895)	132887	10.0000	11
$ 72	Terphenyl-d14	244	10.343	10.349	(0.905)	94005	10.0000	11
73	Butylbenzylphthalate	149	10.784	10.790	(0.943)	56553	10.0000	10
74	3,3'-Dichlorobenzidine	252	11.371	11.377	(0.995)	57737	10.0000	10
78	bis(2-Ethylhexyl)phthalate	149	11.401	11.412	(0.997)	79696	10.0000	10
75	Benzo(a)anthracene	228	11.413	11.424	(0.998)	154590	10.0000	10
* 76	Chrysene-d12	240	11.430	11.436	(1.000)	606893	40.0000	
77	Chrysene	228	11.460	11.465	(1.003)	139901	10.0000	10
79	Di-n-octylphthalate	149	12.311	12.317	(0.894)	145961	10.0000	11
80	Benzo(b)fluoranthene	252	13.005	13.016	(0.944)	168844	10.0000	10
81	Benzo(k)fluoranthene	252	13.052	13.063	(0.948)	165433	10.0000	10
82	Benzo(a)pyrene	252	13.639	13.651	(0.990)	159024	10.0000	10
* 83	Perylene-d12	264	13.774	13.774	(1.000)	657528	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	16.560	16.589	(1.202)	165617	10.0000	9(a)
85	Dibenzo(a,h)anthracene	278	16.659	16.677	(1.209)	172376	10.0000	10
86	Benzo(g,h,i)perylene	276	17.453	17.470	(1.267)	177631	10.0000	10

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\130627.B\S6B4715.d
Date : 27-JUN-2013 15:45
Client ID: SSTD0106B
Instrument: S6.i
Sample Info: SSTD0106B,SSTD0106B
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130627.B\S6B4716.d
Report Date: 28-Jun-2013 14:13

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130627.B\S6B4716.d
Lab Smp Id: SSTD0406B Client Smp ID: SSTD0406B
Inj Date : 27-JUN-2013 16:11
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0406B,SSTD0406B
Misc Info : 1,4
Comment   :
Method   : \\avogadro\organics\S6.I\130627.B\S6_8270C_N.m
Meth Date : 28-Jun-2013 14:12 pkaczorows Quant Type: ISTD
Cal Date : 27-JUN-2013 16:11 Cal File: S6B4716.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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

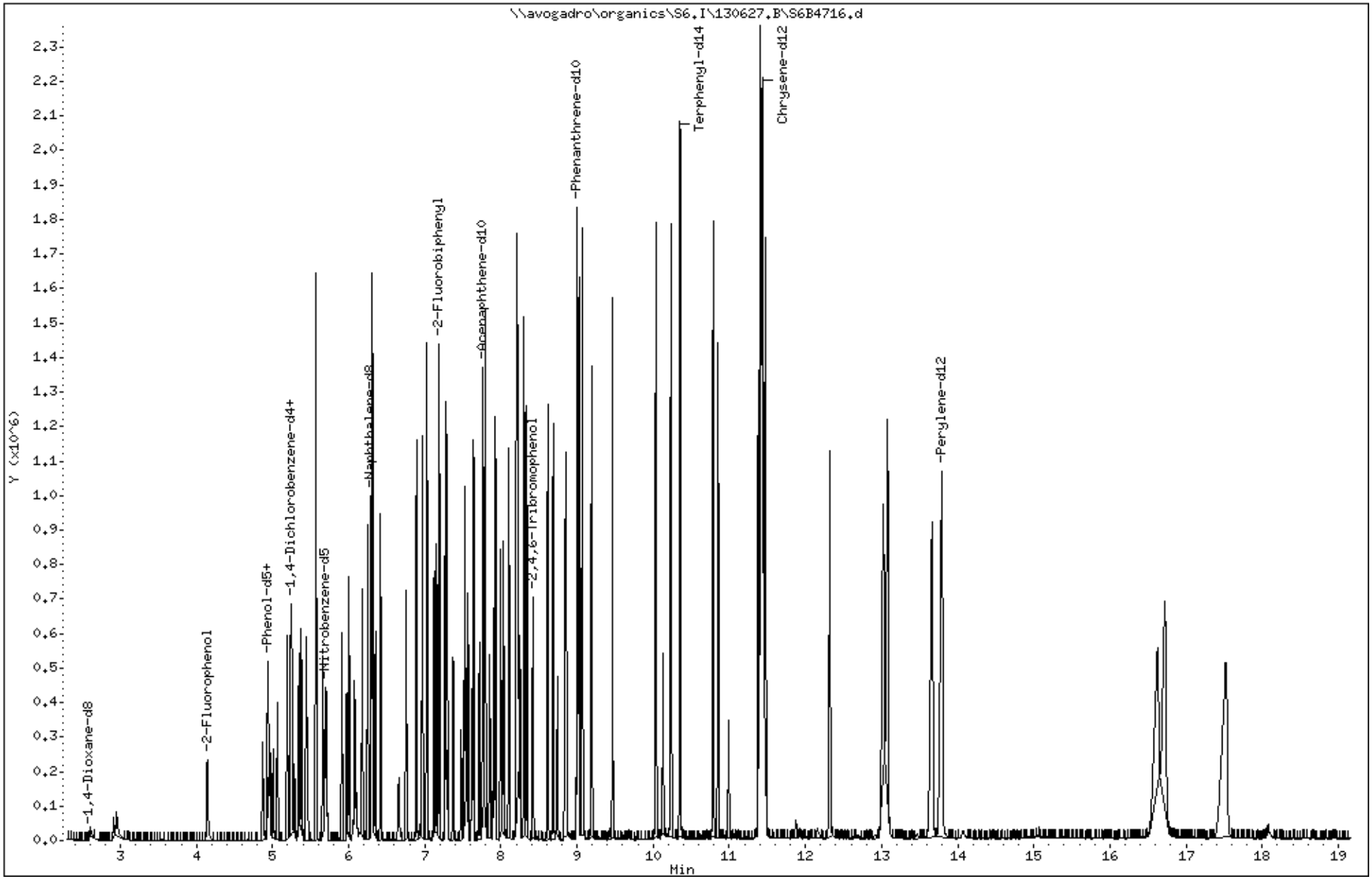
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
$	109	1,4-Dioxane-d8	96	2.593	2.593	(0.495)	17903	40.0000	49
	108	1,4-Dioxane	58	2.623	2.617	(0.501)	5705	40.0000	47
	1	N-Nitrosodimethylamine	74	2.911	2.905	(0.556)	35280	40.0000	43
	2	Pyridine	79	2.946	2.957	(0.563)	60122	40.0000	41
$	3	2-Fluorophenol	112	4.144	4.138	(0.791)	80497	40.0000	39
	101	Benzaldehyde	77	4.867	4.867	(0.929)	61568	40.0000	37
$	5	Phenol-d5	99	4.932	4.926	(0.942)	105869	40.0000	38
	6	Phenol	94	4.943	4.938	(0.944)	112068	40.0000	39
	7	Aniline	66	4.943	4.932	(0.944)	71544	40.0000	36
	8	bis(2-Chloroethyl)Ether	63	5.008	5.002	(0.956)	36915	40.0000	40
	10	2-Chlorophenol	128	5.067	5.061	(0.967)	95557	40.0000	38
	11	1,3-Dichlorobenzene	146	5.190	5.190	(0.991)	106696	40.0000	38
*	12	1,4-Dichlorobenzene-d4	152	5.237	5.237	(1.000)	84669	40.0000	
	13	1,4-Dichlorobenzene	146	5.249	5.249	(1.002)	113953	40.0000	40
	117	2-Ethyl-1-hexanol	57	5.284	5.278	(1.009)	28689	40.0000	39
	15	Benzyl Alcohol	108	5.349	5.343	(1.021)	63548	40.0000	39
	16	1,2-Dichlorobenzene	146	5.378	5.378	(1.027)	110230	40.0000	40
	17	2-Methylphenol	108	5.443	5.437	(1.039)	86193	40.0000	37
	18	2,2'-oxybis(1-Chloropropane)	45	5.455	5.455	(1.042)	24586	40.0000	40
	99	Acetophenone	105	5.566	5.560	(1.063)	154736	40.0000	39

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.566	5.560	(1.063)	63545	40.0000	40
	20 4-Methylphenol	108	5.566	5.560	(1.063)	102764	40.0000	39
	21 Hexachloroethane	117	5.660	5.660	(1.081)	44427	40.0000	39
$	22 Nitrobenzene-d5	82	5.696	5.690	(0.905)	124330	40.0000	39
	23 Nitrobenzene	77	5.713	5.707	(0.908)	109972	40.0000	36
	24 Isophorone	82	5.907	5.901	(0.938)	186234	40.0000	37
	25 2-Nitrophenol	139	5.978	5.972	(0.950)	65144	40.0000	38
	26 2,4-Dimethylphenol	107	6.007	6.001	(0.954)	115389	40.0000	39
	27 bis(2-Chloroethoxy)methane	93	6.077	6.077	(0.965)	92530	40.0000	38
	28 Benzoic Acid	105	6.101	6.060	(0.969)	71082	40.0000	28
	29 2,4-Dichlorophenol	162	6.177	6.171	(0.981)	106764	40.0000	35
	30 1,2,4-Trichlorobenzene	180	6.248	6.248	(0.993)	124825	40.0000	38
*	31 Naphthalene-d8	136	6.295	6.295	(1.000)	380745	40.0000	
	32 Naphthalene	128	6.312	6.312	(1.003)	327802	40.0000	38
	115 alpha-Terpineol	59	6.312	6.312	(1.003)	40274	40.0000	38
	33 4-Chloroaniline	127	6.354	6.348	(1.009)	129040	40.0000	36
	34 Hexachlorobutadiene	225	6.418	6.418	(1.020)	67982	40.0000	34
	102 Caprolactam	113	6.659	6.624	(1.058)	37986	40.0000	34
	35 4-Chloro-3-Methylphenol	107	6.753	6.747	(1.073)	105204	40.0000	36
	36 2-Methylnaphthalene	142	6.888	6.882	(1.094)	243497	40.0000	36
	114 1-Methylnaphthalene	142	6.971	6.971	(1.107)	233256	40.0000	37
	38 Hexachlorocyclopentadiene	237	7.023	7.023	(0.905)	65764	40.0000	34
	112 1,2,4,5-Tetrachlorobenzene	216	7.029	7.029	(0.905)	141953	40.0000	39
	39 2,4,6-Trichlorophenol	196	7.123	7.117	(0.918)	99269	40.0000	39
	40 2,4,5-Trichlorophenol	196	7.153	7.147	(0.921)	102795	40.0000	38
$	41 2-Fluorobiphenyl	172	7.188	7.182	(0.926)	319095	40.0000	39
	98 1,1'-Biphenyl	154	7.276	7.270	(0.937)	346166	40.0000	39
	42 2-Chloronaphthalene	162	7.294	7.294	(0.939)	256572	40.0000	38
	43 2-Nitroaniline	65	7.370	7.370	(0.949)	69731	40.0000	37
	44 Dimethylphthalate	163	7.523	7.511	(0.969)	324558	40.0000	37
	45 2,6-Dinitrotoluene	165	7.570	7.564	(0.975)	77966	40.0000	37
	46 Acenaphthylene	152	7.640	7.640	(0.984)	426202	40.0000	38
	47 3-Nitroaniline	138	7.717	7.711	(0.994)	76087	40.0000	36
*	48 Acenaphthene-d10	164	7.764	7.758	(1.000)	269762	40.0000	
	49 Acenaphthene	153	7.787	7.781	(1.003)	287394	40.0000	38
	50 2,4-Dinitrophenol	184	7.799	7.793	(1.005)	57870	40.0000	40
	51 4-Nitrophenol	109	7.852	7.840	(1.011)	85117	40.0000	36
	53 2,4-Dinitrotoluene	165	7.911	7.899	(1.019)	107670	40.0000	36
	52 Dibenzofuran	168	7.928	7.928	(1.021)	403303	40.0000	38
	110 2,3,4,6-Tetrachlorophenol	232	8.034	8.028	(1.035)	93441	40.0000	37
	54 Diethylphthalate	149	8.105	8.099	(1.044)	335490	40.0000	38
	56 4-Chlorophenyl-phenylether	204	8.204	8.204	(1.057)	189851	40.0000	39
	55 Fluorene	166	8.216	8.210	(1.058)	358434	40.0000	39
	57 4-Nitroaniline	138	8.234	8.216	(1.061)	87427	40.0000	36
	58 4,6-Dinitro-2-methylphenol	198	8.251	8.245	(0.916)	79974	40.0000	39
	59 N-Nitrosodiphenylamine	169	8.304	8.298	(0.922)	303632	40.0000	39
	97 Azobenzene	77	8.340	8.340	(0.926)	362222	40.0000	39
$	60 2,4,6-Tribromophenol	330	8.416	8.416	(0.935)	59246	40.0000	40
	61 4-Bromophenyl-phenylether	248	8.616	8.616	(0.957)	116848	40.0000	39
	62 Hexachlorobenzene	284	8.686	8.680	(0.965)	122468	40.0000	38
	100 Atrazine	200	8.739	8.739	(0.971)	55636	40.0000	46
	63 Pentachlorophenol	266	8.845	8.845	(0.982)	89606	40.0000	43
	111 Pentachloronitrobenzene	237	8.857	8.857	(0.984)	52515	40.0000	37
*	64 Phenanthrene-d10	188	9.003	8.998	(1.000)	604823	40.0000	

Data File: \\avogadro\organics\S6.I\130627.B\S6B4716.d
Report Date: 28-Jun-2013 14:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	65 Phenanthrene	178	9.027	9.021	(1.003)	557404	40.0000	39
	66 Anthracene	178	9.068	9.062	(1.007)	555843	40.0000	37
	67 Carbazole	167	9.191	9.191	(1.021)	503472	40.0000	36
	68 Di-n-butylphthalate	149	9.468	9.462	(1.052)	604358	40.0000	38
	69 Fluoranthene	202	10.038	10.032	(1.115)	705612	40.0000	37
	70 Benzidine	184	10.132	10.143	(0.885)	157508	40.0000	33
	71 Pyrene	202	10.237	10.231	(0.895)	713822	40.0000	40
$	72 Terphenyl-d14	244	10.355	10.349	(0.905)	514822	40.0000	40
	73 Butylbenzylphthalate	149	10.790	10.790	(0.943)	315764	40.0000	40
	74 3,3'-Dichlorobenzidine	252	11.383	11.377	(0.995)	304213	40.0000	36
	78 bis(2-Ethylhexyl)phthalate	149	11.412	11.412	(0.997)	476725	40.0000	40
	75 Benzo(a)anthracene	228	11.424	11.424	(0.998)	817093	40.0000	38
*	76 Chrysene-d12	240	11.442	11.436	(1.000)	874311	40.0000	
	77 Chrysene	228	11.477	11.465	(1.003)	720686	40.0000	37
	79 Di-n-octylphthalate	149	12.317	12.317	(0.893)	761889	40.0000	41
	80 Benzo(b)fluoranthene	252	13.022	13.016	(0.944)	840024	40.0000	38
	81 Benzo(k)fluoranthene	252	13.081	13.063	(0.948)	895232	40.0000	40
	82 Benzo(a)pyrene	252	13.669	13.651	(0.991)	833869	40.0000	38
*	83 Perylene-d12	264	13.792	13.774	(1.000)	903029	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	16.624	16.589	(1.205)	1069233	40.0000	41
	85 Dibenzo(a,h)anthracene	278	16.718	16.677	(1.212)	862256	40.0000	37
	86 Benzo(g,h,i)perylene	276	17.523	17.470	(1.271)	899132	40.0000	36

Data File: \\avogadro\organics\S6.I\130627.B\S6B4716.d
Date : 27-JUN-2013 16:11
Client ID: SSTD0406B
Instrument: S6.i
Sample Info: SSTD0406B,SSTD0406B
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date: 06/25/2013 Time: 15:53

Lab File ID: S6B4631D.D Init. Calib. Date(s): 06/21/2013 06/21/2013

EPA Sample No.(SSTD020##) SSTD0256Y Init. Calib. Time(s): 15:17 17:28

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

COMPOUND	$\overline{RRF}$	RRF025	MIN RRF	%D	MAX %D
Phenol	1.226	1.516	0.800	23.7	20.0
Bis(2-chloroethyl)ether	0.453	0.503	0.700	11.2	20.0
2-Chlorophenol	1.060	1.249	0.800	17.8	20.0
1,3-Dichlorobenzene	1.263	1.363	0.010	8.0	20.0
1,4-Dichlorobenzene	1.303	1.551	0.010	19.0	20.0
1,2-Dichlorobenzene	1.265	1.418	0.010	12.1	20.0
2-Methylphenol	1.004	1.177	0.700	17.2	20.0
2,2´-oxybis(1-Chloropropane)	0.368	0.465	0.010	26.4	20.0
4-Methylphenol	1.192	1.440	0.600	20.8	20.0
N-Nitroso-di-n-propylamine	0.856	0.902	0.500	5.4	20.0
Hexachloroethane	0.494	0.577	0.300	16.9	20.0
Nitrobenzene	0.321	0.343	0.200	6.6	20.0
Isophorone	0.519	0.604	0.400	16.3	20.0
2-Nitrophenol	0.173	0.200	0.100	15.4	20.0
2,4-Dimethylphenol	0.315	0.362	0.200	14.9	20.0
2,4-Dichlorophenol	0.346	0.389	0.200	12.6	20.0
1,2,4-Trichlorobenzene	0.431	0.458	0.010	6.3	20.0
Naphthalene	0.875	0.956	0.700	9.2	20.0
4-Chloroaniline	0.362	0.406	0.010	12.2	20.0
Bis(2-chloroethoxy)methane	0.256	0.291	0.300	13.8	20.0
Hexachlorobutadiene	0.325	0.331	0.010	1.7	20.0
4-Chloro-3-methylphenol	0.312	0.372	0.200	19.0	20.0
2-Methylnaphthalene	0.740	0.832	0.400	12.5	20.0
Hexachlorocyclopentadiene	0.414	0.398	0.050	-4.0	20.0
2,4,6-Trichlorophenol	0.445	0.500	0.200	12.4	20.0
2,4,5-Trichlorophenol	0.491	0.549	0.200	11.6	20.0
2-Chloronaphthalene	0.933	1.029	0.800	10.3	20.0
2-Nitroaniline	0.245	0.277	0.010	13.1	20.0
Dimethylphthalate	1.320	1.553	0.010	17.7	20.0
Acenaphthylene	1.531	1.780	0.900	16.3	20.0
2,6-Dinitrotoluene	0.304	0.358	0.200	17.8	20.0
3-Nitroaniline	0.246	0.291	0.010	18.2	20.0
Acenaphthene	1.049	1.160	0.900	10.6	20.0
2,4-Dinitrophenol	0.273	0.198	0.010	-27.4	20.0
4-Nitrophenol	0.339	0.378	0.010	11.6	20.0
Dibenzofuran	1.640	1.840	0.800	12.2	20.0
2,4-Dinitrotoluene	0.437	0.508	0.200	16.4	20.0
Diethylphthalate	1.241	1.495	0.010	20.4	20.0
4-Chlorophenyl-phenylether	0.932	1.046	0.400	12.2	20.0
Fluorene	1.427	1.645	0.900	15.3	20.0
4-Nitroaniline	0.302	0.342	0.010	13.3	20.0
4,6-Dinitro-2-methylphenol	0.140	0.141	0.010	0.5	20.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date: 06/25/2013 Time: 15:53

Lab File ID: S6B4631D.D Init. Calib. Date(s): 06/21/2013 06/21/2013

EPA Sample No.(SSTD020##) SSTD0256Y Init. Calib. Time(s): 15:17 17:28

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

COMPOUND	$\overline{\text{RRF}}$	RRF025	MIN RRF	%D	MAX %D
N-Nitrosodiphenylamine	0.473	0.561	0.010	18.6	20.0
4-Bromophenyl-phenylether	0.238	0.280	0.100	17.7	20.0
Hexachlorobenzene	0.256	0.294	0.100	14.8	20.0
Pentachlorophenol	0.204	0.222	0.050	8.8	20.0
Phenanthrene	0.902	1.004	0.700	11.4	20.0
Anthracene	0.912	1.045	0.700	14.6	20.0
Carbazole	0.812	0.882	0.010	8.6	20.0
Di-n-butylphthalate	0.860	1.033	0.010	20.2	20.0
Fluoranthene	1.302	1.469	0.600	12.9	20.0
Pyrene	0.803	0.936	0.600	16.6	20.0
Butylbenzylphthalate	0.260	0.329	0.010	26.7	20.0
3,3´-Dichlorobenzidine	0.367	0.428	0.010	16.6	20.0
Benzo(a)anthracene	0.990	1.204	0.800	21.5	20.0
Chrysene	0.871	1.022	0.700	17.3	20.0
Bis(2-ethylhexyl)phthalate	0.389	0.512	0.010	31.6	20.0
Di-n-octylphthalate	0.633	0.780	0.010	23.2	20.0
Benzo(b)fluoranthene	1.000	1.151	0.700	15.0	20.0
Benzo(k)fluoranthene	0.987	1.137	0.700	15.2	20.0
Benzo(a)pyrene	0.944	1.104	0.700	17.0	20.0
Indeno(1,2,3-cd)pyrene	1.054	1.137	0.500	7.8	20.0
Dibenzo(a,h)anthracene	0.970	1.137	0.400	17.2	20.0
Benzo(g,h,i)perylene	0.998	1.117	0.500	12.0	20.0

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date: 06/25/2013 Time: 15:53

Lab File ID: S6B4631D.D Init. Calib. Date(s): 06/21/2013 06/21/2013

EPA Sample No.(SSTD020##) SSTD0256Y Init. Calib. Time(s): 15:17 17:28

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

COMPOUND	$\overline{RRF}$	RRF025	MIN RRF	%D	MAX %D
Nitrobenzene-d5	0.345	0.379	0.010	9.8	20.0
2-Fluorobiphenyl	1.309	1.453	0.010	11.0	20.0
Terphenyl-d14	0.644	0.758	0.010	17.6	20.0
Phenol-d5	1.192	1.368	0.010	14.7	20.0
2-Fluorophenol	0.812	0.884	0.010	8.9	20.0
2,4,6-Tribromophenol	0.128	0.156	0.010	22.0	20.0

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date: 06/26/2013 Time: 18:26

Lab File ID: S6B4671A.D Init. Calib. Date(s): 06/26/2013 06/26/2013

EPA Sample No.(SSTD020##) SSTD0256A Init. Calib. Time(s): 11:45 14:43

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

COMPOUND	$\overline{\text{RRF}}$	RRF025	MIN RRF	%D	MAX %D
Phenol	1.260	1.441	0.800	14.4	20.0
Bis(2-chloroethyl)ether	0.401	0.518	0.700	29.2	20.0
2-Chlorophenol	1.046	1.167	0.800	11.5	20.0
1,3-Dichlorobenzene	1.221	1.410	0.010	15.5	20.0
1,4-Dichlorobenzene	1.292	1.360	0.010	5.2	20.0
1,2-Dichlorobenzene	1.243	1.415	0.010	13.8	20.0
2-Methylphenol	1.028	1.169	0.700	13.7	20.0
2,2´-oxybis(1-Chloropropane)	0.344	0.421	0.010	22.4	20.0
4-Methylphenol	1.271	1.378	0.600	8.4	20.0
N-Nitroso-di-n-propylamine	0.819	0.922	0.500	12.6	20.0
Hexachloroethane	0.516	0.584	0.300	13.3	20.0
Nitrobenzene	0.317	0.369	0.200	16.4	20.0
Isophorone	0.529	0.579	0.400	9.5	20.0
2-Nitrophenol	0.181	0.197	0.100	8.5	20.0
2,4-Dimethylphenol	0.312	0.361	0.200	15.7	20.0
2,4-Dichlorophenol	0.353	0.395	0.200	11.8	20.0
1,2,4-Trichlorobenzene	0.429	0.483	0.010	12.7	20.0
Naphthalene	0.876	0.937	0.700	6.9	20.0
4-Chloroaniline	0.364	0.428	0.010	17.6	20.0
Bis(2-chloroethoxy)methane	0.257	0.286	0.300	11.3	20.0
Hexachlorobutadiene	0.328	0.367	0.010	11.8	20.0
4-Chloro-3-methylphenol	0.332	0.360	0.200	8.4	20.0
2-Methylnaphthalene	0.748	0.836	0.400	11.7	20.0
Hexachlorocyclopentadiene	0.357	0.409	0.050	14.8	20.0
2,4,6-Trichlorophenol	0.458	0.520	0.200	13.6	20.0
2,4,5-Trichlorophenol	0.500	0.554	0.200	10.9	20.0
2-Chloronaphthalene	0.917	1.035	0.800	12.9	20.0
2-Nitroaniline	0.242	0.283	0.010	16.9	20.0
Dimethylphthalate	1.351	1.615	0.010	19.6	20.0
Acenaphthylene	1.513	1.768	0.900	16.8	20.0
2,6-Dinitrotoluene	0.312	0.336	0.200	7.7	20.0
3-Nitroaniline	0.256	0.307	0.010	19.6	20.0
Acenaphthene	1.058	1.216	0.900	14.9	20.0
2,4-Dinitrophenol	0.244	0.285	0.010	16.9	20.0
4-Nitrophenol	0.356	0.403	0.010	13.1	20.0
Dibenzofuran	1.635	1.851	0.800	13.2	20.0
2,4-Dinitrotoluene	0.454	0.519	0.200	14.4	20.0
Diethylphthalate	1.316	1.514	0.010	15.0	20.0
4-Chlorophenyl-phenylether	0.959	1.081	0.400	12.7	20.0
Fluorene	1.449	1.683	0.900	16.2	20.0
4-Nitroaniline	0.299	0.360	0.010	20.3	20.0
4,6-Dinitro-2-methylphenol	0.138	0.147	0.010	6.2	20.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date: 06/26/2013 Time: 18:26

Lab File ID: S6B4671A.D Init. Calib. Date(s): 06/26/2013 06/26/2013

EPA Sample No.(SSTD020##) SSTD0256A Init. Calib. Time(s): 11:45 14:43

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

COMPOUND	$\overline{RRF}$	RRF025	MIN RRF	%D	MAX %D
N-Nitrosodiphenylamine	0.486	0.528	0.010	8.7	20.0
4-Bromophenyl-phenylether	0.243	0.251	0.100	3.2	20.0
Hexachlorobenzene	0.264	0.282	0.100	6.4	20.0
Pentachlorophenol	0.205	0.212	0.050	3.4	20.0
Phenanthrene	0.886	1.003	0.700	13.2	20.0
Anthracene	0.905	1.023	0.700	13.0	20.0
Carbazole	0.771	0.896	0.010	16.1	20.0
Di-n-butylphthalate	0.879	1.011	0.010	15.0	20.0
Fluoranthene	1.281	1.494	0.600	16.6	20.0
Pyrene	0.781	0.895	0.600	14.7	20.0
Butylbenzylphthalate	0.283	0.298	0.010	5.4	20.0
3,3´-Dichlorobenzidine	0.383	0.421	0.010	10.0	20.0
Benzo(a)anthracene	1.052	1.103	0.800	4.9	20.0
Chrysene	0.866	0.969	0.700	12.0	20.0
Bis(2-ethylhexyl)phthalate	0.455	0.451	0.010	-0.8	20.0
Di-n-octylphthalate	0.674	0.762	0.010	13.1	20.0
Benzo(b)fluoranthene	1.033	1.148	0.700	11.1	20.0
Benzo(k)fluoranthene	0.960	1.199	0.700	24.9	20.0
Benzo(a)pyrene	0.964	1.114	0.700	15.5	20.0
Indeno(1,2,3-cd)pyrene	1.141	1.192	0.500	4.5	20.0
Dibenzo(a,h)anthracene	1.025	1.095	0.400	6.8	20.0
Benzo(g,h,i)perylene	1.031	1.153	0.500	11.9	20.0

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date: 06/26/2013 Time: 18:26

Lab File ID: S6B4671A.D Init. Calib. Date(s): 06/26/2013 06/26/2013

EPA Sample No.(SSTD020##) SSTD0256A Init. Calib. Time(s): 11:45 14:43

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

COMPOUND	$\overline{RRF}$	RRF025	MIN RRF	%D	MAX %D
Nitrobenzene-d5	0.324	0.366	0.010	13.1	20.0
2-Fluorobiphenyl	1.262	1.469	0.010	16.4	20.0
Terphenyl-d14	0.637	0.709	0.010	11.3	20.0
Phenol-d5	1.158	1.361	0.010	17.5	20.0
2-Fluorophenol	0.793	0.823	0.010	3.8	20.0
2,4,6-Tribromophenol	0.136	0.137	0.010	0.3	20.0

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date: 06/28/2013 Time: 10:20

Lab File ID: S6B4741.D Init. Calib. Date(s): 06/27/2013 06/27/2013

EPA Sample No.(SSTD020##) SSTD0256C Init. Calib. Time(s): 14:04 16:11

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

COMPOUND	$\overline{RRF}$	RRF025	MIN RRF	%D	MAX %D
Phenol	1.371	1.507	0.800	9.9	20.0
Bis(2-chloroethyl)ether	0.432	0.434	0.700	0.4	20.0
2-Chlorophenol	1.182	1.229	0.800	4.0	20.0
1,3-Dichlorobenzene	1.332	1.404	0.010	5.4	20.0
1,4-Dichlorobenzene	1.340	1.488	0.010	11.0	20.0
1,2-Dichlorobenzene	1.291	1.366	0.010	5.8	20.0
2-Methylphenol	1.088	1.163	0.700	6.9	20.0
2,2´-oxybis(1-Chloropropane)	0.292	0.316	0.010	8.1	20.0
4-Methylphenol	1.245	1.238	0.600	-0.5	20.0
N-Nitroso-di-n-propylamine	0.758	0.837	0.500	10.4	20.0
Hexachloroethane	0.542	0.573	0.300	5.7	20.0
Nitrobenzene	0.321	0.368	0.200	14.8	20.0
Isophorone	0.522	0.573	0.400	9.8	20.0
2-Nitrophenol	0.181	0.193	0.100	6.5	20.0
2,4-Dimethylphenol	0.308	0.346	0.200	12.1	20.0
2,4-Dichlorophenol	0.316	0.338	0.200	6.8	20.0
1,2,4-Trichlorobenzene	0.344	0.370	0.010	7.7	20.0
Naphthalene	0.894	0.999	0.700	11.7	20.0
4-Chloroaniline	0.380	0.414	0.010	8.9	20.0
Bis(2-chloroethoxy)methane	0.259	0.294	0.300	13.8	20.0
Hexachlorobutadiene	0.210	0.234	0.010	11.5	20.0
4-Chloro-3-methylphenol	0.306	0.320	0.200	4.6	20.0
2-Methylnaphthalene	0.703	0.765	0.400	8.8	20.0
Hexachlorocyclopentadiene	0.285	0.375	0.050	31.6	20.0
2,4,6-Trichlorophenol	0.378	0.423	0.200	12.1	20.0
2,4,5-Trichlorophenol	0.406	0.445	0.200	9.8	20.0
2-Chloronaphthalene	0.990	1.161	0.800	17.3	20.0
2-Nitroaniline	0.280	0.307	0.010	9.9	20.0
Dimethylphthalate	1.306	1.463	0.010	12.0	20.0
Acenaphthylene	1.669	1.898	0.900	13.7	20.0
2,6-Dinitrotoluene	0.312	0.355	0.200	13.9	20.0
3-Nitroaniline	0.315	0.351	0.010	11.7	20.0
Acenaphthene	1.122	1.269	0.900	13.1	20.0
2,4-Dinitrophenol	0.212	0.224	0.010	5.6	20.0
4-Nitrophenol	0.348	0.364	0.010	4.6	20.0
Dibenzofuran	1.584	1.809	0.800	14.2	20.0
2,4-Dinitrotoluene	0.440	0.488	0.200	10.9	20.0
Diethylphthalate	1.303	1.480	0.010	13.6	20.0
4-Chlorophenyl-phenylether	0.726	0.868	0.400	19.5	20.0
Fluorene	1.359	1.565	0.900	15.2	20.0
4-Nitroaniline	0.364	0.413	0.010	13.6	20.0
4,6-Dinitro-2-methylphenol	0.136	0.145	0.010	7.1	20.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date: 06/28/2013 Time: 10:20

Lab File ID: S6B4741.D Init. Calib. Date(s): 06/27/2013 06/27/2013

EPA Sample No.(SSTD020##) SSTD0256C Init. Calib. Time(s): 14:04 16:11

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

COMPOUND	$\overline{\text{RRF}}$	RRF025	MIN RRF	%D	MAX %D
N-Nitrosodiphenylamine	0.518	0.582	0.010	12.4	20.0
4-Bromophenyl-phenylether	0.197	0.235	0.100	19.6	20.0
Hexachlorobenzene	0.213	0.254	0.100	19.3	20.0
Pentachlorophenol	0.139	0.151	0.050	9.3	20.0
Phenanthrene	0.952	1.076	0.700	13.0	20.0
Anthracene	0.981	1.083	0.700	10.4	20.0
Carbazole	0.914	1.008	0.010	10.3	20.0
Di-n-butylphthalate	1.037	1.208	0.010	16.5	20.0
Fluoranthene	1.258	1.330	0.600	5.7	20.0
Pyrene	0.815	0.991	0.600	21.6	20.0
Butylbenzylphthalate	0.357	0.426	0.010	19.4	20.0
3,3´-Dichlorobenzidine	0.389	0.438	0.010	12.8	20.0
Benzo(a)anthracene	0.993	1.139	0.800	14.7	20.0
Chrysene	0.890	1.014	0.700	13.9	20.0
Bis(2-ethylhexyl)phthalate	0.540	0.642	0.010	19.0	20.0
Di-n-octylphthalate	0.828	1.027	0.010	24.0	20.0
Benzo(b)fluoranthene	0.990	1.157	0.700	16.8	20.0
Benzo(k)fluoranthene	1.003	1.166	0.700	16.2	20.0
Benzo(a)pyrene	0.967	1.116	0.700	15.4	20.0
Indeno(1,2,3-cd)pyrene	1.156	1.182	0.500	2.3	20.0
Dibenzo(a,h)anthracene	1.024	1.064	0.400	3.9	20.0
Benzo(g,h,i)perylene	1.096	1.166	0.500	6.3	20.0

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: S6 Calibration Date: 06/28/2013 Time: 10:20

Lab File ID: S6B4741.D Init. Calib. Date(s): 06/27/2013 06/27/2013

EPA Sample No.(SSTD020##) SSTD0256C Init. Calib. Time(s): 14:04 16:11

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

COMPOUND	$\overline{RRF}$	RRF025	MIN RRF	%D	MAX %D
Nitrobenzene-d5	0.338	0.367	0.010	8.6	20.0
2-Fluorobiphenyl	1.200	1.408	0.010	17.3	20.0
Terphenyl-d14	0.584	0.733	0.010	25.4	20.0
Phenol-d5	1.327	1.409	0.010	6.1	20.0
2-Fluorophenol	0.972	1.034	0.010	6.4	20.0
2,4,6-Tribromophenol	0.099	0.118	0.010	19.6	20.0

Data File: \\avogadro\organics\S6.I\130625.B\S6B4631D.d
Report Date: 26-Jun-2013 10:11

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130625.B\S6B4631D.d
Lab Smp Id: SSTD0256Y Client Smp ID: SSTD0256Y
Inj Date : 25-JUN-2013 15:53
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0256Y,SSTD0256Y
Misc Info : 2,3
Comment   :
Method   : \\avogadro\organics\S6.I\130625.B\S6_8270C_N.m
Meth Date : 26-Jun-2013 10:11 S6.i Quant Type: ISTD
Cal Date : 21-JUN-2013 16:38 Cal File: S6B4574.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	2.718	2.718	(0.510)	15411	25.0000	23(Q)
	108	1,4-Dioxane	58	2.747	2.747	(0.515)	6473	25.0000	20(Q)
	1	N-Nitrosodimethylamine	74	3.029	3.029	(0.568)	43864	25.0000	25
	2	Pyridine	79	3.070	3.070	(0.576)	49823	25.0000	19
$	3	2-Fluorophenol	112	4.240	4.240	(0.795)	105258	25.0000	27
	101	Benzaldehyde	77	4.968	4.968	(0.932)	113617	25.0000	29
$	5	Phenol-d5	99	5.021	5.021	(0.942)	162837	25.0000	29
	6	Phenol	94	5.033	5.033	(0.944)	180407	25.0000	31
	7	Aniline	66	5.033	5.033	(0.944)	125157	25.0000	28
	8	bis(2-Chloroethyl)Ether	63	5.103	5.103	(0.957)	59904	25.0000	28
	10	2-Chlorophenol	128	5.162	5.162	(0.968)	148681	25.0000	29
	11	1,3-Dichlorobenzene	146	5.291	5.291	(0.992)	162259	25.0000	27
*	12	1,4-Dichlorobenzene-d4	152	5.332	5.332	(1.000)	190441	40.0000	
	13	1,4-Dichlorobenzene	146	5.350	5.350	(1.003)	184597	25.0000	30
	117	2-Ethyl-1-hexanol	57	5.379	5.379	(1.009)	61280	25.0000	30
	15	Benzyl Alcohol	108	5.444	5.444	(1.021)	105494	25.0000	29
	16	1,2-Dichlorobenzene	146	5.479	5.479	(1.028)	168797	25.0000	28
	17	2-Methylphenol	108	5.532	5.532	(1.037)	140060	25.0000	29
	18	2,2'-oxybis(1-Chloropropane)	45	5.556	5.556	(1.042)	55303	25.0000	32
	99	Acetophenone	105	5.661	5.661	(1.062)	276542	25.0000	30

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.661	5.661	(1.062)	107354	25.0000	26
	20 4-Methylphenol	108	5.661	5.661	(1.062)	171378	25.0000	30
	21 Hexachloroethane	117	5.761	5.761	(1.080)	68704	25.0000	29
$	22 Nitrobenzene-d5	82	5.791	5.791	(0.905)	224204	25.0000	27
	23 Nitrobenzene	77	5.808	5.808	(0.908)	202701	25.0000	27
	24 Isophorone	82	6.002	6.002	(0.938)	357340	25.0000	29
	25 2-Nitrophenol	139	6.073	6.073	(0.949)	118079	25.0000	29
	26 2,4-Dimethylphenol	107	6.102	6.102	(0.954)	213909	25.0000	29
	27 bis(2-Chloroethoxy)methane	93	6.173	6.173	(0.965)	172243	25.0000	28
	28 Benzoic Acid	105	6.184	6.184	(0.967)	144540	25.0000	24
	29 2,4-Dichlorophenol	162	6.272	6.272	(0.981)	230234	25.0000	28
	30 1,2,4-Trichlorobenzene	180	6.349	6.349	(0.993)	270672	25.0000	26
*	31 Naphthalene-d8	136	6.396	6.396	(1.000)	946542	40.0000	
	32 Naphthalene	128	6.413	6.413	(1.003)	565732	25.0000	27
	115 alpha-Terpineol	59	6.408	6.408	(1.002)	89380	25.0000	30
	33 4-Chloroaniline	127	6.449	6.449	(1.008)	240256	25.0000	28
	34 Hexachlorobutadiene	225	6.519	6.519	(1.019)	195790	25.0000	25
	102 Caprolactam	113	6.748	6.748	(1.055)	81415	25.0000	31
	35 4-Chloro-3-Methylphenol	107	6.848	6.848	(1.071)	219907	25.0000	30
	36 2-Methylnaphthalene	142	6.989	6.989	(1.093)	492202	25.0000	28
	114 1-Methylnaphthalene	142	7.072	7.072	(1.106)	464793	25.0000	28
	38 Hexachlorocyclopentadiene	237	7.124	7.124	(0.906)	224413	25.0000	24
	112 1,2,4,5-Tetrachlorobenzene	216	7.130	7.130	(0.907)	441405	25.0000	27
	39 2,4,6-Trichlorophenol	196	7.218	7.218	(0.918)	282539	25.0000	28
	40 2,4,5-Trichlorophenol	196	7.254	7.254	(0.922)	309658	25.0000	29
$	41 2-Fluorobiphenyl	172	7.289	7.289	(0.927)	820013	25.0000	28
	98 1,1'-Biphenyl	154	7.371	7.371	(0.937)	766587	25.0000	27
	42 2-Chloronaphthalene	162	7.395	7.395	(0.940)	580686	25.0000	28
	43 2-Nitroaniline	65	7.471	7.471	(0.950)	156648	25.0000	28
	44 Dimethylphthalate	163	7.618	7.618	(0.969)	876795	25.0000	29
	45 2,6-Dinitrotoluene	165	7.671	7.671	(0.975)	202333	25.0000	29
	46 Acenaphthylene	152	7.747	7.747	(0.985)	1004600	25.0000	29
	47 3-Nitroaniline	138	7.818	7.818	(0.994)	164375	25.0000	30
*	48 Acenaphthene-d10	164	7.865	7.865	(1.000)	903234	40.0000	
	49 Acenaphthene	153	7.888	7.888	(1.003)	655101	25.0000	28
	50 2,4-Dinitrophenol	184	7.894	7.894	(1.004)	111971	25.0000	18(aQ)
	51 4-Nitrophenol	109	7.941	7.941	(1.010)	213518	25.0000	28
	53 2,4-Dinitrotoluene	165	8.006	8.006	(1.018)	287025	25.0000	29
	52 Dibenzofuran	168	8.035	8.035	(1.022)	1038892	25.0000	28
	110 2,3,4,6-Tetrachlorophenol	232	8.135	8.135	(1.034)	337018	25.0000	28
	54 Diethylphthalate	149	8.206	8.206	(1.043)	843817	25.0000	30
	56 4-Chlorophenyl-phenylether	204	8.311	8.311	(1.057)	590265	25.0000	28
	55 Fluorene	166	8.323	8.323	(1.058)	928430	25.0000	29
	57 4-Nitroaniline	138	8.329	8.329	(1.059)	192955	25.0000	28
	58 4,6-Dinitro-2-methylphenol	198	8.352	8.352	(0.915)	212929	25.0000	25
	59 N-Nitrosodiphenylamine	169	8.405	8.405	(0.921)	847598	25.0000	30
	97 Azobenzene	77	8.446	8.446	(0.925)	911776	25.0000	30
$	60 2,4,6-Tribromophenol	330	8.523	8.523	(0.934)	235627	25.0000	30
	61 4-Bromophenyl-phenylether	248	8.723	8.723	(0.956)	422691	25.0000	29
	62 Hexachlorobenzene	284	8.799	8.799	(0.964)	443875	25.0000	29
	100 Atrazine	200	8.846	8.846	(0.969)	145358	25.0000	27
	63 Pentachlorophenol	266	8.958	8.958	(0.981)	335008	25.0000	27(Q)
	111 Pentachloronitrobenzene	237	8.975	8.975	(0.983)	227403	25.0000	29
*	64 Phenanthrene-d10	188	9.128	9.128	(1.000)	2415889	40.0000	

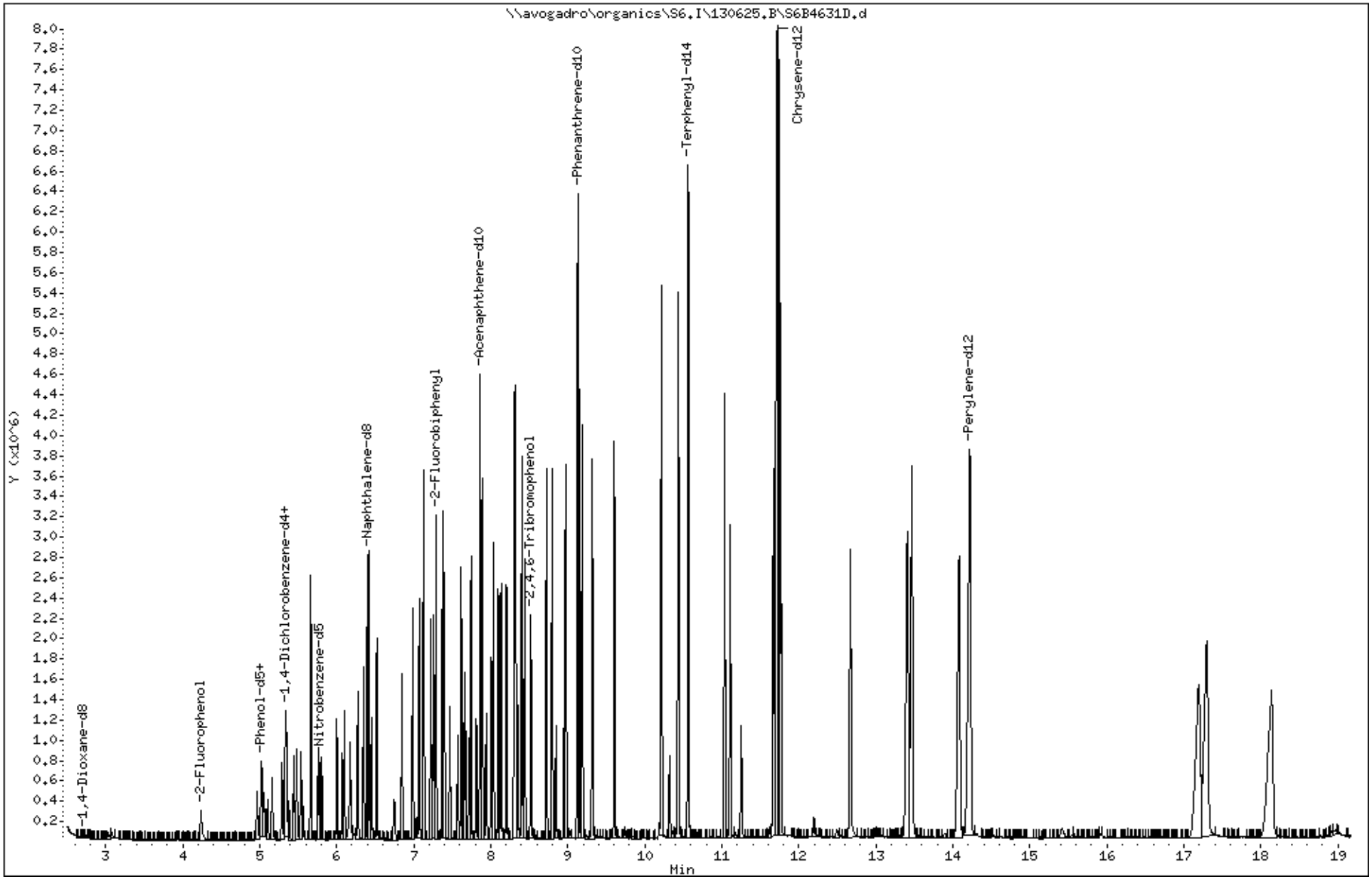
Data File: \\avogadro\organics\S6.I\130625.B\S6B4631D.d
Report Date: 26-Jun-2013 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.146	9.146	(1.002)	1516132	25.0000	28
66	Anthracene	178	9.193	9.193	(1.007)	1578164	25.0000	29
67	Carbazole	167	9.322	9.322	(1.021)	1332318	25.0000	27
68	Di-n-butylphthalate	149	9.604	9.604	(1.052)	1560218	25.0000	30
69	Fluoranthene	202	10.221	10.221	(1.120)	2218396	25.0000	28
70	Benzidine	184	10.321	10.321	(0.879)	317989	25.0000	19(a)
71	Pyrene	202	10.438	10.438	(0.889)	2247888	25.0000	29
$ 72	Terphenyl-d14	244	10.562	10.562	(0.900)	1820377	25.0000	29
73	Butylbenzylphthalate	149	11.038	11.038	(0.940)	789750	25.0000	32
74	3,3'-Dichlorobenzidine	252	11.672	11.672	(0.994)	1026852	25.0000	29
78	bis(2-Ethylhexyl)phthalate	149	11.707	11.707	(0.997)	1230001	25.0000	33
75	Benzo(a)anthracene	228	11.713	11.713	(0.998)	2890161	25.0000	30
* 76	Chrysene-d12	240	11.737	11.737	(1.000)	3841965	40.0000	
77	Chrysene	228	11.766	11.766	(1.002)	2454280	25.0000	29
79	Di-n-octylphthalate	149	12.671	12.671	(0.891)	1901278	25.0000	31
80	Benzo(b)fluoranthene	252	13.405	13.405	(0.943)	2805539	25.0000	29
81	Benzo(k)fluoranthene	252	13.464	13.464	(0.947)	2772570	25.0000	29
82	Benzo(a)pyrene	252	14.081	14.081	(0.990)	2693130	25.0000	29
* 83	Perylene-d12	264	14.222	14.222	(1.000)	3901521	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	17.195	17.195	(1.209)	2771610	25.0000	27
85	Dibenzo(a,h)anthracene	278	17.295	17.295	(1.216)	2772359	25.0000	29
86	Benzo(g,h,i)perylene	276	18.135	18.135	(1.275)	2723965	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.

Data File: \\avogadro\organics\S6.I\130625.B\S6B4631D.d
Date : 25-JUN-2013 15:53
Client ID: SSTD0256Y
Instrument: S6.i
Sample Info: SSTD0256Y,SSTD0256Y
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130626A.B\S6B4671A.d
Report Date: 27-Jun-2013 14:57

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626A.B\S6B4671A.d
Lab Smp Id: SSTD0256A Client Smp ID: SSTD0256A
Inj Date : 26-JUN-2013 18:26
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0256A,SSTD0256A
Misc Info : 2,3
Comment   :
Method   : \\avogadro\organics\S6.I\130626A.B\S6_8270C_N.m
Meth Date : 27-Jun-2013 14:57 S6.i Quant Type: ISTD
Cal Date : 26-JUN-2013 14:43 Cal File: S6B4666.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	2.693	2.693	(0.507)	5083	25.0000	34
	108	1,4-Dioxane	58	2.717	2.717	(0.512)	1536	25.0000	22(Q)
	1	N-Nitrosodimethylamine	74	3.005	3.005	(0.566)	13077	25.0000	29
	2	Pyridine	79	3.046	3.046	(0.574)	21564	25.0000	30(T)
$	3	2-Fluorophenol	112	4.215	4.215	(0.794)	32024	25.0000	26
	101	Benzaldehyde	77	4.943	4.943	(0.931)	36477	25.0000	30
$	5	Phenol-d5	99	4.996	4.996	(0.941)	52931	25.0000	29
	6	Phenol	94	5.008	5.008	(0.944)	56059	25.0000	29
	7	Aniline	66	5.008	5.008	(0.944)	41477	25.0000	26
	8	bis(2-Chloroethyl)Ether	63	5.079	5.079	(0.957)	20151	25.0000	32
	10	2-Chlorophenol	128	5.137	5.137	(0.968)	45382	25.0000	28
	11	1,3-Dichlorobenzene	146	5.267	5.267	(0.992)	54849	25.0000	29
*	12	1,4-Dichlorobenzene-d4	152	5.308	5.308	(1.000)	62236	40.0000	
	13	1,4-Dichlorobenzene	146	5.320	5.320	(1.002)	52895	25.0000	26
	117	2-Ethyl-1-hexanol	57	5.355	5.355	(1.009)	16884	25.0000	28
	15	Benzyl Alcohol	108	5.419	5.419	(1.021)	33584	25.0000	28
	16	1,2-Dichlorobenzene	146	5.455	5.455	(1.028)	55036	25.0000	28
	17	2-Methylphenol	108	5.508	5.508	(1.038)	45462	25.0000	28
	18	2,2'-oxybis(1-Chloropropane)	45	5.525	5.525	(1.041)	16380	25.0000	31
	99	Acetophenone	105	5.637	5.637	(1.062)	90280	25.0000	29

Data File: \\avogadro\organics\S6.I\130626A.B\S6B4671A.d
Report Date: 27-Jun-2013 14:57

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.637	5.637	(1.062)	35859	25.0000	28
	20 4-Methylphenol	108	5.637	5.637	(1.062)	53612	25.0000	27
	21 Hexachloroethane	117	5.737	5.737	(1.081)	22732	25.0000	28
$	22 Nitrobenzene-d5	82	5.766	5.766	(0.906)	70081	25.0000	28
	23 Nitrobenzene	77	5.784	5.784	(0.909)	70610	25.0000	29
	24 Isophorone	82	5.978	5.978	(0.939)	110894	25.0000	27
	25 2-Nitrophenol	139	6.048	6.048	(0.950)	37636	25.0000	27(Q)
	26 2,4-Dimethylphenol	107	6.072	6.072	(0.954)	69074	25.0000	29
	27 bis(2-Chloroethoxy)methane	93	6.148	6.148	(0.966)	54797	25.0000	28
	28 Benzoic Acid	105	6.166	6.166	(0.969)	58564	25.0000	28
	29 2,4-Dichlorophenol	162	6.248	6.248	(0.982)	75610	25.0000	28
	30 1,2,4-Trichlorobenzene	180	6.318	6.318	(0.993)	92524	25.0000	28
*	31 Naphthalene-d8	136	6.365	6.365	(1.000)	306250	40.0000	
	32 Naphthalene	128	6.383	6.383	(1.003)	179263	25.0000	27
	115 alpha-Terpineol	59	6.383	6.383	(1.003)	27577	25.0000	27
	33 4-Chloroaniline	127	6.424	6.424	(1.009)	81858	25.0000	29
	34 Hexachlorobutadiene	225	6.489	6.489	(1.019)	70155	25.0000	28
	102 Caprolactam	113	6.718	6.718	(1.055)	28407	25.0000	34
	35 4-Chloro-3-Methylphenol	107	6.824	6.824	(1.072)	68974	25.0000	27
	36 2-Methylnaphthalene	142	6.959	6.959	(1.093)	160032	25.0000	28
	114 1-Methylnaphthalene	142	7.041	7.041	(1.106)	147432	25.0000	27
	38 Hexachlorocyclopentadiene	237	7.094	7.094	(0.906)	77052	25.0000	29
	112 1,2,4,5-Tetrachlorobenzene	216	7.100	7.100	(0.906)	143873	25.0000	27
	39 2,4,6-Trichlorophenol	196	7.194	7.194	(0.918)	97956	25.0000	28
	40 2,4,5-Trichlorophenol	196	7.223	7.223	(0.922)	104272	25.0000	28
$	41 2-Fluorobiphenyl	172	7.258	7.258	(0.926)	276511	25.0000	29
	98 1,1'-Biphenyl	154	7.347	7.347	(0.938)	259814	25.0000	28
	42 2-Chloronaphthalene	162	7.364	7.364	(0.940)	194872	25.0000	28
	43 2-Nitroaniline	65	7.441	7.441	(0.950)	53329	25.0000	29
	44 Dimethylphthalate	163	7.587	7.587	(0.969)	304026	25.0000	30
	45 2,6-Dinitrotoluene	165	7.640	7.640	(0.975)	63291	25.0000	27
	46 Acenaphthylene	152	7.717	7.717	(0.985)	332828	25.0000	29
	47 3-Nitroaniline	138	7.787	7.787	(0.994)	57694	25.0000	30
*	48 Acenaphthene-d10	164	7.834	7.834	(1.000)	301166	40.0000	
	49 Acenaphthene	153	7.864	7.864	(1.004)	228839	25.0000	29
	50 2,4-Dinitrophenol	184	7.870	7.870	(1.004)	53655	25.0000	29(Q)
	51 4-Nitrophenol	109	7.917	7.917	(1.011)	75870	25.0000	28
	53 2,4-Dinitrotoluene	165	7.981	7.981	(1.019)	97719	25.0000	28
	52 Dibenzofuran	168	8.005	8.005	(1.022)	348375	25.0000	28
	110 2,3,4,6-Tetrachlorophenol	232	8.105	8.105	(1.034)	116035	25.0000	28
	54 Diethylphthalate	149	8.175	8.175	(1.043)	285012	25.0000	29
	56 4-Chlorophenyl-phenylether	204	8.275	8.275	(1.056)	203504	25.0000	28
	55 Fluorene	166	8.287	8.287	(1.058)	316849	25.0000	29
	57 4-Nitroaniline	138	8.298	8.298	(1.059)	67721	25.0000	30
	58 4,6-Dinitro-2-methylphenol	198	8.322	8.322	(0.917)	79613	25.0000	26
	59 N-Nitrosodiphenylamine	169	8.375	8.375	(0.922)	285974	25.0000	27
	97 Azobenzene	77	8.410	8.410	(0.926)	313680	25.0000	29
$	60 2,4,6-Tribromophenol	330	8.492	8.492	(0.935)	74198	25.0000	25
	61 4-Bromophenyl-phenylether	248	8.686	8.686	(0.957)	136021	25.0000	26
	62 Hexachlorobenzene	284	8.757	8.757	(0.964)	152520	25.0000	27
	100 Atrazine	200	8.810	8.810	(0.970)	55924	25.0000	29
	63 Pentachlorophenol	266	8.915	8.915	(0.982)	114997	25.0000	26
	111 Pentachloronitrobenzene	237	8.933	8.933	(0.984)	75407	25.0000	25
*	64 Phenanthrene-d10	188	9.080	9.080	(1.000)	866802	40.0000	

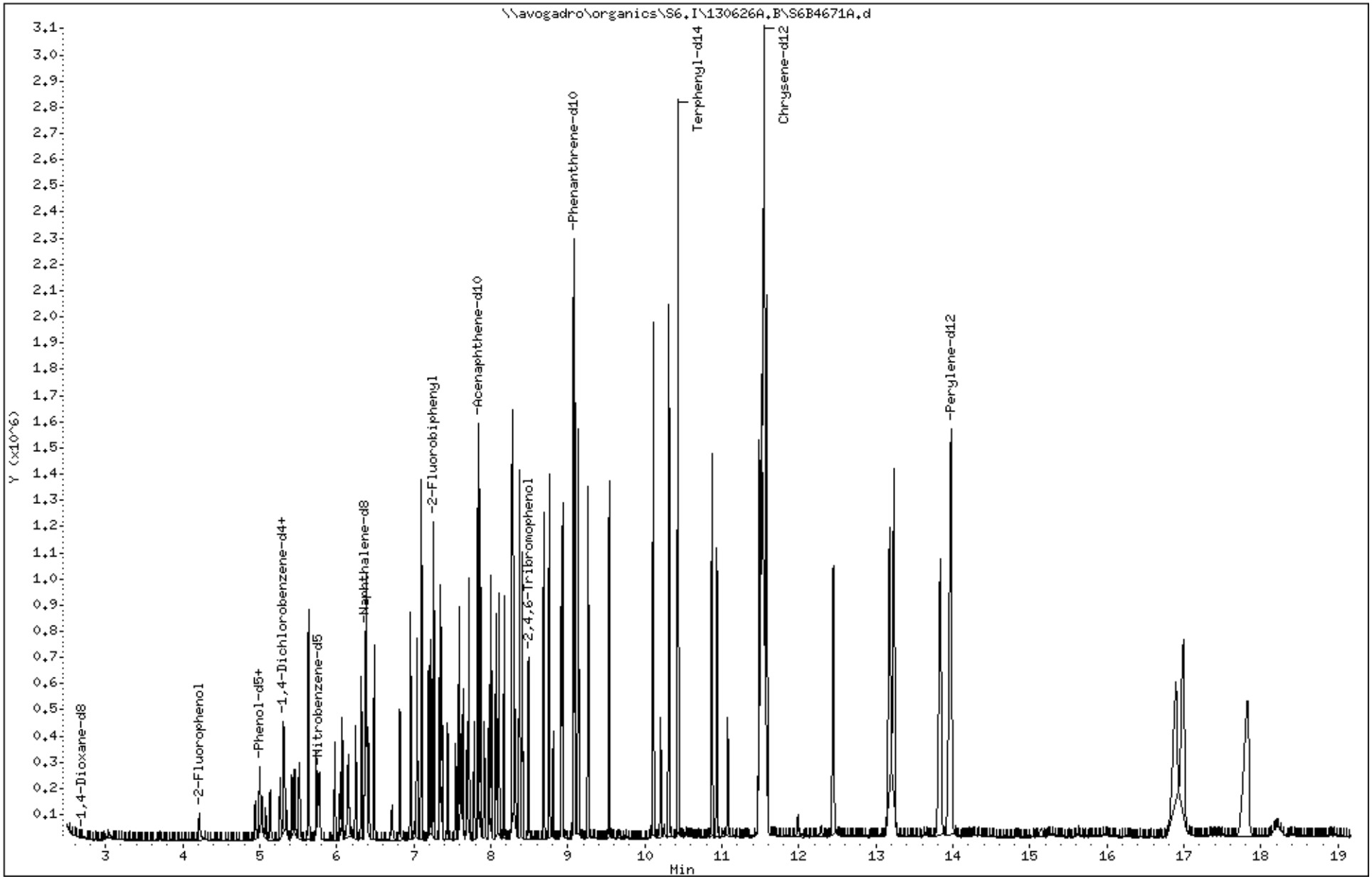
Data File: \\avogadro\organics\S6.I\130626A.B\S6B4671A.d
Report Date: 27-Jun-2013 14:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	65 Phenanthrene	178	9.098	9.098	(1.002)	543300	25.0000	28
	66 Anthracene	178	9.139	9.139	(1.006)	554088	25.0000	28
	67 Carbazole	167	9.268	9.268	(1.021)	485142	25.0000	29
	68 Di-n-butylphthalate	149	9.538	9.538	(1.050)	547726	25.0000	29
	69 Fluoranthene	202	10.114	10.114	(1.114)	809222	25.0000	29
	70 Benzidine	184	10.208	10.208	(0.884)	161243	25.0000	34
	71 Pyrene	202	10.314	10.314	(0.893)	841836	25.0000	29
$	72 Terphenyl-d14	244	10.431	10.431	(0.903)	666336	25.0000	28
	73 Butylbenzylphthalate	149	10.872	10.872	(0.941)	280578	25.0000	26
	74 3,3'-Dichlorobenzidine	252	11.483	11.483	(0.994)	396360	25.0000	28
	78 bis(2-Ethylhexyl)phthalate	149	11.512	11.512	(0.997)	424155	25.0000	25
	75 Benzo(a)anthracene	228	11.530	11.530	(0.998)	1036992	25.0000	26
*	76 Chrysene-d12	240	11.548	11.548	(1.000)	1504579	40.0000	
	77 Chrysene	228	11.583	11.583	(1.003)	911542	25.0000	28
	79 Di-n-octylphthalate	149	12.447	12.447	(0.891)	702698	25.0000	28
	80 Benzo(b)fluoranthene	252	13.175	13.175	(0.943)	1057994	25.0000	28
	81 Benzo(k)fluoranthene	252	13.234	13.234	(0.947)	1104807	25.0000	31
	82 Benzo(a)pyrene	252	13.839	13.839	(0.990)	1026641	25.0000	29
*	83 Perylene-d12	264	13.974	13.974	(1.000)	1474612	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	16.889	16.889	(1.209)	1098634	25.0000	26
	85 Dibenzo(a,h)anthracene	278	16.988	16.988	(1.216)	1009186	25.0000	27
	86 Benzo(g,h,i)perylene	276	17.817	17.817	(1.275)	1063062	25.0000	28

QC Flag Legend

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

Data File: \\avogadro\organics\S6.I\130626A.B\S6B4671A.d
Date : 26-JUN-2013 18:26
Client ID: SSTD0256A
Instrument: S6.i
Sample Info: SSTD0256A,SSTD0256A
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130628.B\S6B4741.d
Report Date: 28-Jun-2013 14:20

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130628.B\S6B4741.d
Lab Smp Id: SSTD0256C Client Smp ID: SSTD0256C
Inj Date : 28-JUN-2013 10:20
Operator : PK   SRC: PK Inst ID: S6.i
Smp Info : SSTD0256C,SSTD0256C
Misc Info : 2,3
Comment   :
Method   : \\avogadro\organics\S6.I\130628.B\S6_8270C_N.m
Meth Date : 28-Jun-2013 14:20 S6.i Quant Type: ISTD
Cal Date : 27-JUN-2013 16:11 Cal File: S6B4716.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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	2.599	2.599	(0.496)	4909	25.0000	26
	108	1,4-Dioxane	58	2.623	2.623	(0.501)	1754	25.0000	28(Q)
	1	N-Nitrosodimethylamine	74	2.910	2.910	(0.556)	13169	25.0000	31
	2	Pyridine	79	2.952	2.952	(0.564)	22567	25.0000	30(T)
$	3	2-Fluorophenol	112	4.138	4.138	(0.790)	28553	25.0000	27
	101	Benzaldehyde	77	4.867	4.867	(0.929)	25255	25.0000	29
$	5	Phenol-d5	99	4.926	4.926	(0.941)	38890	25.0000	26
	6	Phenol	94	4.938	4.938	(0.943)	41612	25.0000	27
	7	Aniline	66	4.938	4.938	(0.943)	26208	25.0000	25
	8	bis(2-Chloroethyl)Ether	63	5.008	5.008	(0.956)	11981	25.0000	25
	10	2-Chlorophenol	128	5.061	5.061	(0.966)	33924	25.0000	26
	11	1,3-Dichlorobenzene	146	5.190	5.190	(0.991)	38751	25.0000	26
*	12	1,4-Dichlorobenzene-d4	152	5.237	5.237	(1.000)	44175	40.0000	
	13	1,4-Dichlorobenzene	146	5.249	5.249	(1.002)	41074	25.0000	28
	117	2-Ethyl-1-hexanol	57	5.284	5.284	(1.009)	10550	25.0000	28
	15	Benzyl Alcohol	108	5.343	5.343	(1.020)	23280	25.0000	28
	16	1,2-Dichlorobenzene	146	5.378	5.378	(1.027)	37710	25.0000	26
	17	2-Methylphenol	108	5.437	5.437	(1.038)	32119	25.0000	27
	18	2,2'-oxybis(1-Chloropropane)	45	5.455	5.455	(1.042)	8722	25.0000	27
	99	Acetophenone	105	5.566	5.566	(1.063)	55860	25.0000	27

Data File: \\avogadro\organics\S6.I\130628.B\S6B4741.d
Report Date: 28-Jun-2013 14:20

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	19 N-Nitroso-di-n-propylamine	70	5.566	5.566	(1.063)	23113	25.0000	28
	20 4-Methylphenol	108	5.566	5.566	(1.063)	34190	25.0000	25
	21 Hexachloroethane	117	5.660	5.660	(1.081)	15811	25.0000	26
$	22 Nitrobenzene-d5	82	5.690	5.690	(0.904)	43675	25.0000	27
	23 Nitrobenzene	77	5.707	5.707	(0.907)	43892	25.0000	29
	24 Isophorone	82	5.901	5.901	(0.937)	68243	25.0000	27
	25 2-Nitrophenol	139	5.978	5.978	(0.950)	22954	25.0000	27
	26 2,4-Dimethylphenol	107	6.001	6.001	(0.953)	41204	25.0000	28
	27 bis(2-Chloroethoxy)methane	93	6.077	6.077	(0.965)	35064	25.0000	28
	28 Benzoic Acid	105	6.083	6.083	(0.966)	31281	25.0000	24
	29 2,4-Dichlorophenol	162	6.177	6.177	(0.981)	40235	25.0000	27
	30 1,2,4-Trichlorobenzene	180	6.248	6.248	(0.993)	44129	25.0000	27
*	31 Naphthalene-d8	136	6.295	6.295	(1.000)	190576	40.0000	
	32 Naphthalene	128	6.312	6.312	(1.003)	118963	25.0000	28
	115 alpha-Terpineol	59	6.312	6.312	(1.003)	15525	25.0000	29
	33 4-Chloroaniline	127	6.354	6.354	(1.009)	49363	25.0000	27
	34 Hexachlorobutadiene	225	6.418	6.418	(1.020)	27923	25.0000	28
	102 Caprolactam	113	6.641	6.641	(1.055)	15387	25.0000	28
	35 4-Chloro-3-Methylphenol	107	6.753	6.753	(1.073)	38100	25.0000	26
	36 2-Methylnaphthalene	142	6.888	6.888	(1.094)	91090	25.0000	27
	114 1-Methylnaphthalene	142	6.971	6.971	(1.107)	83927	25.0000	27
	38 Hexachlorocyclopentadiene	237	7.023	7.023	(0.905)	31707	25.0000	33
	112 1,2,4,5-Tetrachlorobenzene	216	7.029	7.029	(0.905)	52457	25.0000	29
	39 2,4,6-Trichlorophenol	196	7.123	7.123	(0.918)	35749	25.0000	28
	40 2,4,5-Trichlorophenol	196	7.153	7.153	(0.921)	37618	25.0000	28
$	41 2-Fluorobiphenyl	172	7.188	7.188	(0.926)	118934	25.0000	29
	98 1,1'-Biphenyl	154	7.270	7.270	(0.936)	129109	25.0000	29
	42 2-Chloronaphthalene	162	7.294	7.294	(0.939)	98113	25.0000	29
	43 2-Nitroaniline	65	7.370	7.370	(0.949)	25963	25.0000	27
	44 Dimethylphthalate	163	7.517	7.517	(0.968)	123570	25.0000	28
	45 2,6-Dinitrotoluene	165	7.570	7.570	(0.975)	30007	25.0000	28
	46 Acenaphthylene	152	7.640	7.640	(0.984)	160333	25.0000	28
	47 3-Nitroaniline	138	7.711	7.711	(0.993)	29685	25.0000	28
*	48 Acenaphthene-d10	164	7.764	7.764	(1.000)	135160	40.0000	
	49 Acenaphthene	153	7.787	7.787	(1.003)	107227	25.0000	28
	50 2,4-Dinitrophenol	184	7.793	7.793	(1.004)	18944	25.0000	26(Q)
	51 4-Nitrophenol	109	7.846	7.846	(1.011)	30779	25.0000	26
	53 2,4-Dinitrotoluene	165	7.905	7.905	(1.018)	41185	25.0000	28
	52 Dibenzofuran	168	7.928	7.928	(1.021)	152787	25.0000	28
	110 2,3,4,6-Tetrachlorophenol	232	8.034	8.034	(1.035)	33319	25.0000	26
	54 Diethylphthalate	149	8.104	8.104	(1.044)	125022	25.0000	28
	56 4-Chlorophenyl-phenylether	204	8.210	8.210	(1.058)	73293	25.0000	30
	55 Fluorene	166	8.216	8.216	(1.058)	132196	25.0000	29
	57 4-Nitroaniline	138	8.222	8.222	(1.059)	34922	25.0000	29
	58 4,6-Dinitro-2-methylphenol	198	8.251	8.251	(0.916)	28182	25.0000	27
	59 N-Nitrosodiphenylamine	169	8.304	8.304	(0.922)	112988	25.0000	28
	97 Azobenzene	77	8.340	8.340	(0.926)	137470	25.0000	29
$	60 2,4,6-Tribromophenol	330	8.416	8.416	(0.935)	22942	25.0000	30
	61 4-Bromophenyl-phenylether	248	8.616	8.616	(0.957)	45640	25.0000	30
	62 Hexachlorobenzene	284	8.686	8.686	(0.965)	49382	25.0000	30
	100 Atrazine	200	8.739	8.739	(0.971)	17801	25.0000	29
	63 Pentachlorophenol	266	8.845	8.845	(0.982)	29406	25.0000	27
	111 Pentachloronitrobenzene	237	8.862	8.862	(0.984)	20757	25.0000	28
*	64 Phenanthrene-d10	188	9.003	9.003	(1.000)	310573	40.0000	

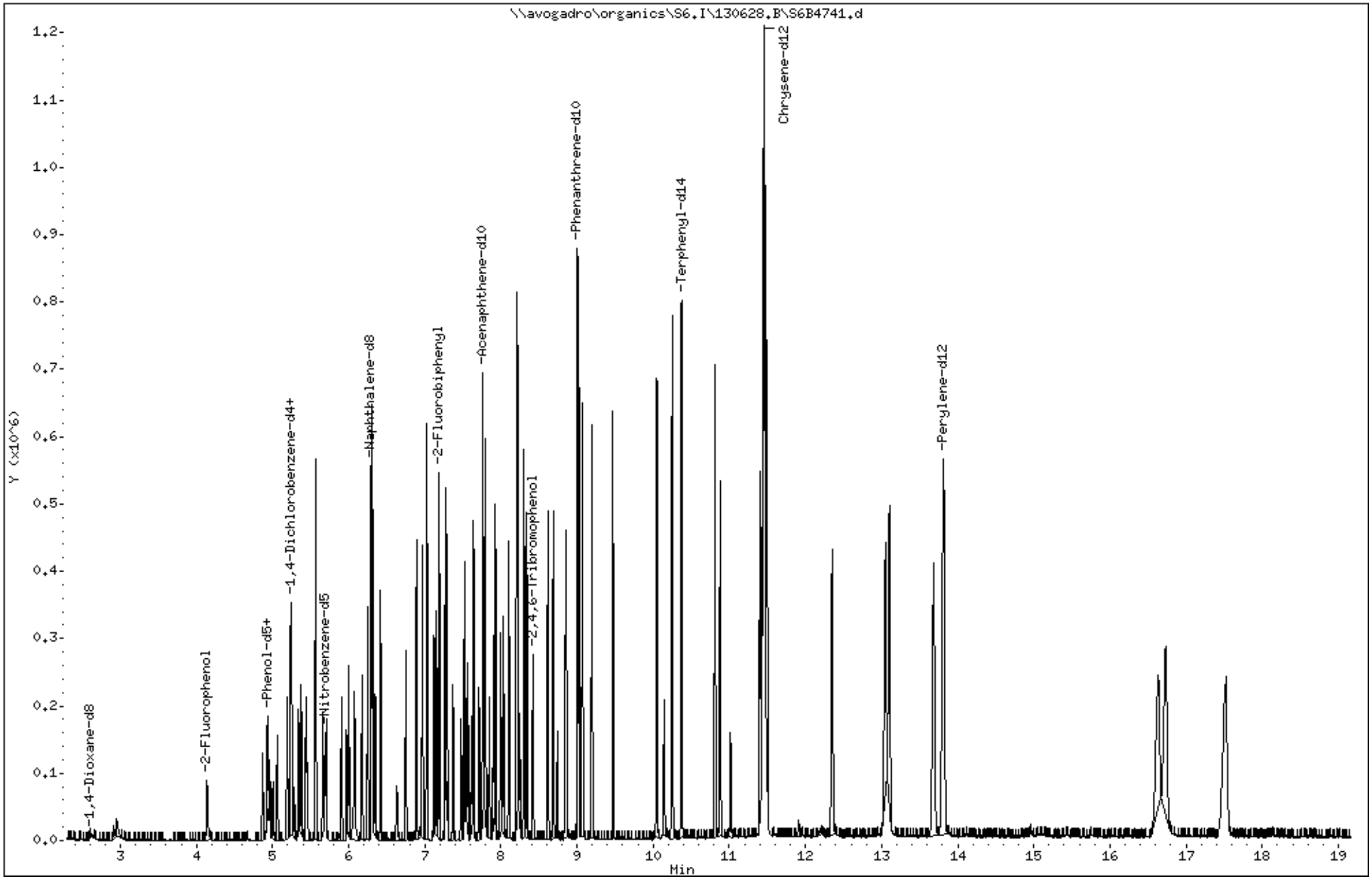
Data File: \\avogadro\organics\S6.I\130628.B\S6B4741.d
Report Date: 28-Jun-2013 14:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65	Phenanthrene	178	9.027	9.027	(1.003)	208829	25.0000	28
66	Anthracene	178	9.068	9.068	(1.007)	210310	25.0000	28
67	Carbazole	167	9.197	9.197	(1.022)	195750	25.0000	28
68	Di-n-butylphthalate	149	9.473	9.473	(1.052)	234508	25.0000	29
69	Fluoranthene	202	10.049	10.049	(1.116)	258080	25.0000	26
70	Benzidine	184	10.143	10.143	(0.885)	66557	25.0000	28
71	Pyrene	202	10.249	10.249	(0.894)	268438	25.0000	30
$ 72	Terphenyl-d14	244	10.372	10.372	(0.905)	198389	25.0000	31
73	Butylbenzylphthalate	149	10.813	10.813	(0.943)	115433	25.0000	30
74	3,3'-Dichlorobenzidine	252	11.407	11.407	(0.995)	118672	25.0000	28
78	bis(2-Ethylhexyl)phthalate	149	11.442	11.442	(0.998)	173858	25.0000	30
75	Benzo(a)anthracene	228	11.448	11.448	(0.998)	308518	25.0000	29
* 76	Chrysene-d12	240	11.465	11.465	(1.000)	433229	40.0000	
77	Chrysene	228	11.495	11.495	(1.003)	274538	25.0000	28
79	Di-n-octylphthalate	149	12.353	12.353	(0.894)	293940	25.0000	31
80	Benzo(b)fluoranthene	252	13.052	13.052	(0.945)	330946	25.0000	29
81	Benzo(k)fluoranthene	252	13.105	13.105	(0.949)	333652	25.0000	29
82	Benzo(a)pyrene	252	13.686	13.686	(0.991)	319305	25.0000	29
* 83	Perylene-d12	264	13.816	13.816	(1.000)	457759	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	16.630	16.630	(1.204)	338273	25.0000	26
85	Dibenzo(a,h)anthracene	278	16.730	16.730	(1.211)	304417	25.0000	26
86	Benzo(g,h,i)perylene	276	17.523	17.523	(1.268)	333523	25.0000	26

QC Flag Legend

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

Data File: \\avogadro\organics\S6.I\130628.B\S6B4741.d
Date : 28-JUN-2013 10:20
Client ID: SSTD0256C
Instrument: S6.i
Sample Info: SSTD0256C,SSTD0256C
Volume Injected (uL): 1.0
Operator: PK SRC: PK
Column phase: Rxi-5Sil MS
Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130621.B\S6B4570D.d
Lab Smp Id: DFTPP6w Client Smp ID: DFTPP6w
Inj Date : 21-JUN-2013 14:16
Operator : PK SRC: PK Inst ID: S6.i
Smp Info : DFTPP6w,DFTPP6w
Misc Info :
Comment :
Method : \\avogadro\organics\S6.I\130621.B\S6_dftppSOM.m
Meth Date : 21-Jun-2013 14:34 pkaczorows Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 50 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET113

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		
4.775	4.776	-0.001	198	856320			0.00- 100.00	100.00
4.775	4.776	-0.001	51	297901			10.00- 80.00	34.79
4.775	4.776	-0.001	68	0	0.0	0.0	0.00- 2.00	0.00
4.775	4.776	-0.001	69	391232			0.00- 0.00	45.69
4.775	4.776	-0.001	70	4481			0.00- 2.00	1.15
4.775	4.776	-0.001	127	346552			10.00- 80.00	40.47
4.775	4.776	-0.001	197	0	0.0	0.0	0.00- 2.00	0.00
4.775	4.776	-0.001	199	67988			5.00- 9.00	7.94
4.775	4.776	-0.001	275	269741			10.00- 60.00	31.50
4.775	4.776	-0.001	365	43071			1.00- 0.00	5.03
4.775	4.776	-0.001	441	57322			0.01- 99.99	39.23
4.775	4.776	-0.001	442	701821			50.00- 100.00	81.96
4.775	4.776	-0.001	443	146104			15.00- 24.00	20.82

Data File: \\avogadro\organics\S6.I\130621.B\S6B4570D.d

Date : 21-JUN-2013 14:16

Client ID: DFTPP6w

Instrument: S6.i

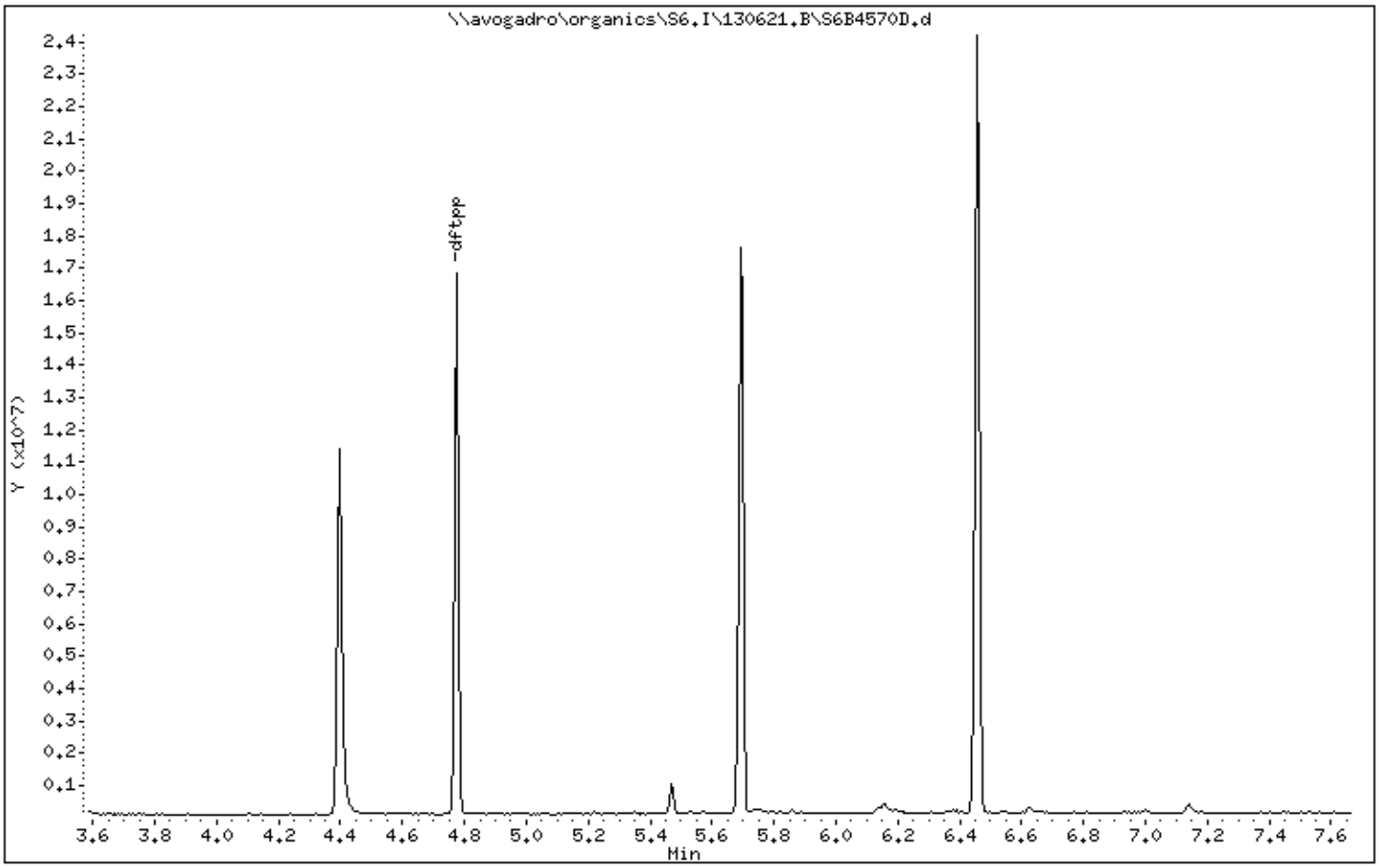
Sample Info: DFTPP6w,DFTPP6w

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130621.B\S6B4570D.d

Date : 21-JUN-2013 14:16

Client ID: DFTPP6w

Instrument: S6.i

Sample Info: DFTPP6w,DFTPP6w

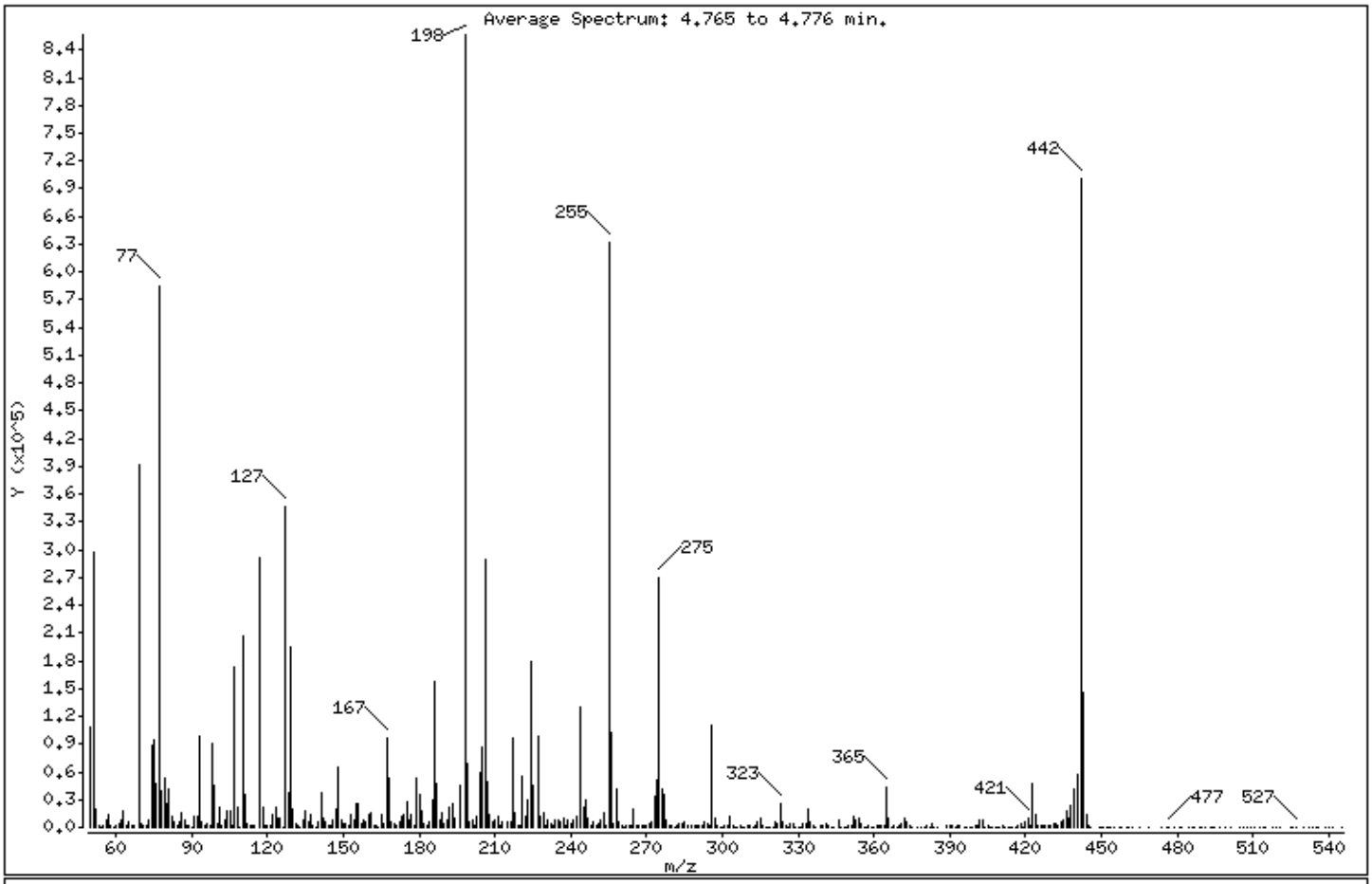
Volume Injected (uL): 2.0

Operator: PK SRC: PK

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	34.79
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.69
70	Less than 2.00% of mass 69	0.52 (1.15)
127	10.00 - 80.00% of mass 198	40.47
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.94
275	10.00 - 60.00% of mass 198	31.50
365	Greater than 1.00% of mass 198	5.03
441	Present, but less than mass 443	6.69
442	50.00 - 100.00% of mass 198	81.96
443	15.00 - 24.00% of mass 442	17.06 (20.82)

Date : 21-JUN-2013 14:16

Client ID: DFTPP6w Instrument: S6.i

Sample Info: DFTPP6w,DFTPP6w

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4570D.d
Spectrum: Average Spectrum: 4.765 to 4.776 min.
Location of Maximum: 198.00
Number of points: 435

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	108632	161.00	15059	275.00	269696	392.00	780
51.00	297856	162.00	2520	276.00	41376	393.00	1169
52.00	18888	163.00	1834	277.00	35400	394.00	1007
53.00	1150	164.00	785	278.00	7695	396.00	422
54.00	927	165.00	13486	279.00	1521	397.00	274
55.00	2439	166.00	4892	280.00	1107	398.00	194
56.00	8379	167.00	95880	281.00	186	399.00	633
57.00	13500	168.00	53016	282.00	1216	400.00	1298
58.00	1092	169.00	6013	283.00	3231	401.00	1780
59.00	724	170.00	3268	284.00	3921	402.00	8343
60.00	1356	171.00	2476	285.00	5317	403.00	8715
61.00	4802	172.00	6541	286.00	1204	404.00	132
62.00	7541	173.00	11313	288.00	1874	405.00	1375
63.00	18536	174.00	13852	289.00	1880	406.00	254
64.00	2519	175.00	27512	290.00	1909	407.00	436
65.00	5681	176.00	7692	291.00	1894	408.00	187
66.00	1168	177.00	13014	292.00	1913	409.00	405
67.00	2019	178.00	2879	293.00	6837	410.00	565
69.00	391232	179.00	53688	294.00	3262	411.00	986
70.00	4481	180.00	36128	295.00	1038	412.00	401
71.00	1881	181.00	17264	296.00	110824	413.00	73
72.00	1833	182.00	3888	297.00	10651	414.00	868
73.00	8118	183.00	994	298.00	2165	415.00	453
74.00	88632	184.00	6861	299.00	468	416.00	280
75.00	93992	185.00	29504	300.00	317	417.00	1074
76.00	46392	186.00	157504	301.00	1149	418.00	3654
77.00	584000	187.00	47744	302.00	2132	419.00	256
78.00	39640	188.00	7550	303.00	12162	420.00	5168
79.00	53360	189.00	15110	304.00	2499	421.00	9339
80.00	26280	190.00	3518	305.00	78	422.00	2808
81.00	40904	191.00	8841	306.00	550	423.00	46272
82.00	10881	192.00	20936	307.00	1219	424.00	13066
83.00	5248	193.00	24624	308.00	544	425.00	1234
84.00	1017	194.00	10628	309.00	386	426.00	1176
85.00	6160	196.00	45432	310.00	1797	427.00	1251

Date : 21-JUN-2013 14:16

Client ID: DFTPP6w Instrument: S6.i

Sample Info: DFTPP6w,DFTPP6w

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4570D.d
Spectrum: Average Spectrum: 4.765 to 4.776 min.
Location of Maximum: 198.00
Number of points: 435

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	16255	198.00	856320	311.00	1019	428.00	1793
87.00	7689	199.00	67984	312.00	844	429.00	1697
88.00	2305	200.00	6389	313.00	1732	430.00	2705
89.00	1192	201.00	8418	314.00	6101	431.00	3974
90.00	84	202.00	1980	315.00	8872	432.00	4324
91.00	12496	203.00	12768	316.00	2239	433.00	1640
92.00	11520	204.00	59552	317.00	381	434.00	5479
93.00	98472	205.00	86248	318.00	319	435.00	7455
94.00	5708	206.00	289664	319.00	819	436.00	18280
95.00	2264	207.00	49552	320.00	924	437.00	10068
96.00	4240	208.00	13434	321.00	4978	438.00	23560
97.00	2097	209.00	5157	322.00	3475	439.00	42128
98.00	91304	210.00	8845	323.00	24848	441.00	57320
99.00	44792	211.00	12573	324.00	5130	442.00	701760
100.00	3763	212.00	2402	325.00	2551	443.00	146048
101.00	22544	213.00	5065	326.00	513	444.00	12888
102.00	2917	215.00	5770	327.00	4743	445.00	1559
103.00	8529	216.00	4974	328.00	3331	446.00	523
104.00	18456	217.00	95744	329.00	840	449.00	221
105.00	16760	218.00	15814	330.00	437	450.00	116
106.00	1701	219.00	2684	331.00	781	451.00	571
107.00	172992	220.00	1507	332.00	3367	452.00	160
108.00	21664	221.00	54136	333.00	3234	453.00	355
109.00	782	222.00	11091	334.00	20208	454.00	50
110.00	207040	223.00	29976	335.00	5386	455.00	56
111.00	36088	224.00	178944	336.00	1071	457.00	144
112.00	4831	225.00	44936	337.00	394	458.00	113
113.00	2311	227.00	98688	339.00	1322	460.00	54
114.00	1148	228.00	12672	340.00	1219	461.00	101
115.00	1776	229.00	15246	341.00	3005	462.00	203
117.00	292032	230.00	1808	342.00	1014	465.00	331
118.00	21720	231.00	8114	343.00	454	469.00	118
119.00	1442	232.00	3931	344.00	291	474.00	61
120.00	1542	233.00	2268	346.00	8838	476.00	70
121.00	1901	234.00	7578	347.00	941	477.00	546

Date : 21-JUN-2013 14:16

Client ID: DFTPP6w Instrument: S6.i

Sample Info: DFTPP6w,DFTPP6w

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4570D.d
Spectrum: Average Spectrum: 4.765 to 4.776 min.
Location of Maximum: 198.00
Number of points: 435

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	13242	235.00	8158	348.00	419	479.00	194
123.00	20784	236.00	5996	349.00	747	481.00	345
124.00	9463	237.00	8899	350.00	2362	482.00	132
125.00	9953	238.00	1107	351.00	1005	485.00	141
126.00	504	239.00	8471	352.00	12204	486.00	220
127.00	346496	240.00	4217	353.00	7815	487.00	361
128.00	36832	241.00	7152	354.00	9635	489.00	137
129.00	195328	242.00	11781	355.00	3843	490.00	345
130.00	19592	244.00	130480	356.00	218	491.00	500
131.00	3400	245.00	21128	357.00	201	493.00	391
132.00	1293	246.00	30248	358.00	1106	494.00	133
133.00	892	247.00	9748	359.00	186	495.00	177
134.00	7632	248.00	2843	360.00	406	497.00	270
135.00	18424	249.00	6305	361.00	1967	499.00	97
136.00	6636	250.00	2435	362.00	1544	501.00	280
137.00	14617	251.00	3166	363.00	2306	505.00	105
138.00	2884	252.00	7353	364.00	2713	506.00	266
139.00	593	253.00	14948	365.00	43064	508.00	212
140.00	6506	254.00	1733	366.00	9748	509.00	129
141.00	36888	255.00	632320	367.00	339	511.00	76
142.00	10071	256.00	101880	368.00	1291	513.00	52
143.00	5967	257.00	3286	369.00	395	514.00	109
144.00	2084	258.00	41576	370.00	2125	515.00	55
145.00	2451	259.00	6674	371.00	3795	518.00	111
146.00	7530	260.00	1546	372.00	9746	519.00	197
147.00	20056	261.00	868	373.00	5588	521.00	58
148.00	65208	262.00	1486	374.00	1335	525.00	85
149.00	7557	263.00	1531	375.00	560	526.00	50
150.00	2975	264.00	2675	377.00	534	527.00	521
151.00	3490	265.00	19760	379.00	143	530.00	101
152.00	2316	266.00	2871	380.00	73	532.00	86
153.00	13487	267.00	2688	381.00	1090	534.00	67
154.00	8199	268.00	2121	382.00	281	535.00	103
155.00	25200	269.00	2648	383.00	3525	536.00	177
156.00	25064	270.00	2921	384.00	435	539.00	410

Date : 21-JUN-2013 14:16

Client ID: DFTPP6w Instrument: S6.i

Sample Info: DFTPP6w,DFTPP6w

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4570D.d
Spectrum: Average Spectrum: 4.765 to 4.776 min.
Location of Maximum: 198.00
Number of points: 435

m/z	Y	m/z	Y	m/z	Y	m/z	Y
157.00	4399	271.00	4145	385.00	422	540.00	162
158.00	8238	272.00	5551	389.00	2541	542.00	169
159.00	5054	273.00	34424	390.00	998	545.00	222
160.00	13229	274.00	51448	391.00	1520		

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130625.B\S6B4630C.d
Lab Smp Id: DFTPP6Y Client Smp ID: DFTPP6Y
Inj Date : 25-JUN-2013 15:12
Operator : PK SRC: PK Inst ID: S6.i
Smp Info : DFTPP6Y,DFTPP6Y
Misc Info :
Comment :
Method : \\avogadro\organics\S6.I\130625.B\S6_dftppSOM.m
Meth Date : 21-Jun-2013 14:34 pkaczorows Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 50 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET113

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	
4.798	4.776	0.022	198	331690			0.00- 100.00	100.00
4.798	4.776	0.022	51	114554			10.00- 80.00	34.54
4.798	4.776	0.022	68	1569			0.00- 2.00	1.06
4.798	4.776	0.022	69	148168			0.00- 0.00	44.67
4.798	4.776	0.022	70	657			0.00- 2.00	0.44
4.798	4.776	0.022	127	134458			10.00- 80.00	40.54
4.798	4.776	0.022	197	0	0.0	0.0	0.00- 2.00	0.00
4.798	4.776	0.022	199	28089			5.00- 9.00	8.47
4.798	4.776	0.022	275	104074			10.00- 60.00	31.38
4.798	4.776	0.022	365	15059			1.00- 0.00	4.54
4.798	4.776	0.022	441	31200			0.01- 99.99	51.11
4.798	4.776	0.022	442	293565			50.00- 100.00	88.51
4.798	4.776	0.022	443	61050			15.00- 24.00	20.80

Data File: \\avogadro\organics\S6.I\130625.B\S6B4630C.d

Date : 25-JUN-2013 15:12

Client ID: DFTPP6Y

Instrument: S6.i

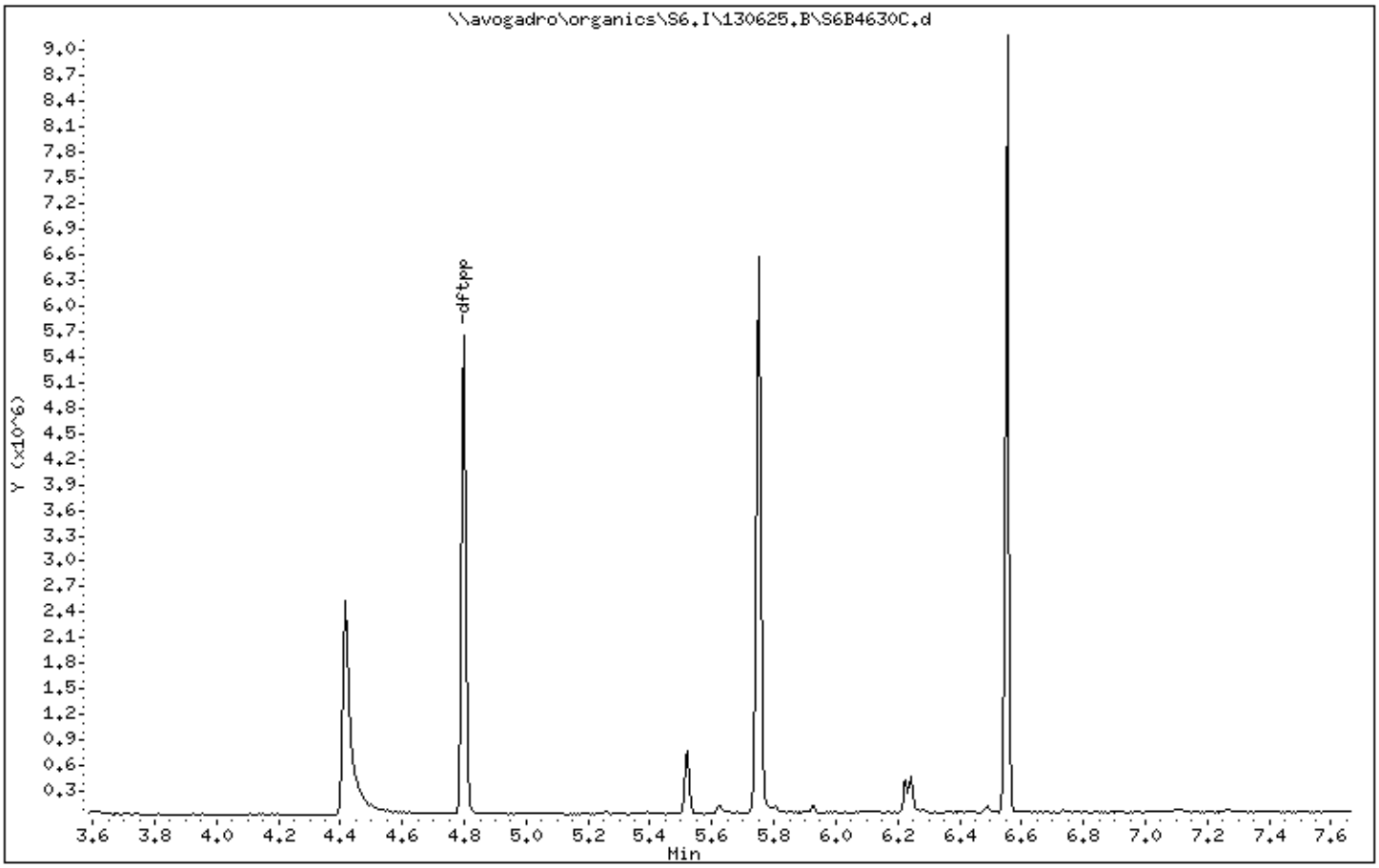
Sample Info: DFTPP6Y,DFTPP6Y

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130625.B\S6B4630C.d

Date : 25-JUN-2013 15:12

Client ID: DFTPP6Y

Instrument: S6.i

Sample Info: DFTPP6Y,DFTPP6Y

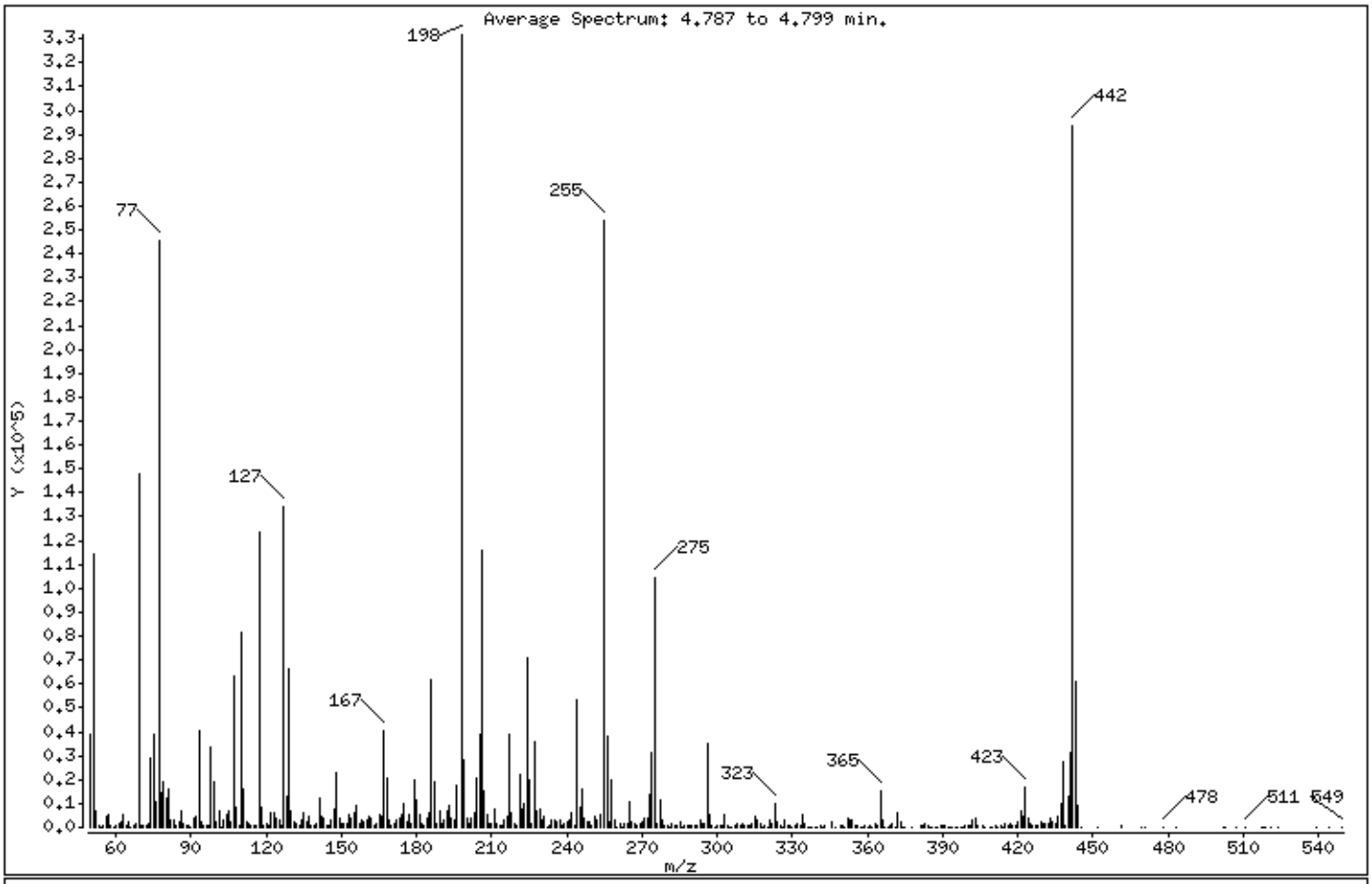
Volume Injected (uL): 2.0

Operator: PK SRC: PK

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	34.54
68	Less than 2.00% of mass 69	0.47 (1.06)
69	Mass 69 relative abundance	44.67
70	Less than 2.00% of mass 69	0.20 (0.44)
127	10.00 - 80.00% of mass 198	40.54
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.47
275	10.00 - 60.00% of mass 198	31.38
365	Greater than 1.00% of mass 198	4.54
441	Present, but less than mass 443	9.41
442	50.00 - 100.00% of mass 198	88.51
443	15.00 - 24.00% of mass 442	18.41 (20.80)

Date : 25-JUN-2013 15:12

Client ID: DFTPP6Y Instrument: S6.i

Sample Info: DFTPP6Y,DFTPP6Y

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4630C.d
Spectrum: Average Spectrum: 4.787 to 4.799 min.
Location of Maximum: 198.00
Number of points: 403

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	39024	151.00	1432	253.00	5703	358.00	260
51.00	114552	152.00	1533	255.00	254080	359.00	600
52.00	7014	153.00	5125	256.00	38312	360.00	205
53.00	393	154.00	3541	257.00	2436	361.00	614
54.00	126	155.00	6467	258.00	19568	362.00	349
55.00	640	156.00	9211	259.00	3204	363.00	1221
56.00	4208	157.00	1762	260.00	305	364.00	721
57.00	5311	158.00	2802	261.00	1224	365.00	15059
58.00	765	159.00	2509	262.00	245	366.00	3205
59.00	330	160.00	3089	263.00	1659	367.00	205
60.00	540	161.00	4651	264.00	1678	368.00	252
61.00	1652	162.00	3523	265.00	10382	369.00	670
62.00	2013	163.00	1083	266.00	2646	370.00	1656
63.00	5539	164.00	1328	267.00	1833	371.00	236
64.00	897	165.00	5101	268.00	668	372.00	6043
65.00	2179	166.00	4348	269.00	1728	373.00	1932
66.00	255	167.00	40704	270.00	2660	374.00	263
67.00	889	168.00	20760	271.00	3970	375.00	150
68.00	1569	169.00	3369	272.00	4154	378.00	90
69.00	148160	170.00	502	273.00	13558	381.00	759
70.00	657	171.00	1261	274.00	31088	382.00	991
71.00	694	172.00	2973	275.00	104072	383.00	1561
72.00	649	173.00	3648	276.00	1792	384.00	985
73.00	1715	174.00	5553	277.00	11204	385.00	304
74.00	29032	175.00	9594	278.00	2703	386.00	101
75.00	38560	176.00	2203	279.00	759	387.00	122
76.00	10992	177.00	5067	280.00	433	388.00	56
77.00	245632	178.00	1150	281.00	276	389.00	699
78.00	14856	179.00	20136	282.00	1570	390.00	477
79.00	19056	180.00	11781	283.00	1086	391.00	569
80.00	12103	181.00	5256	284.00	1030	392.00	267
81.00	16118	182.00	1715	285.00	2167	393.00	151
82.00	3060	183.00	423	286.00	157	394.00	69
83.00	3121	184.00	3590	287.00	549	395.00	217
84.00	972	185.00	5911	288.00	495	396.00	225

Date : 25-JUN-2013 15:12

Client ID: DFTPP6Y Instrument: S6.i

Sample Info: DFTPP6Y,DFTPP6Y

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4630C.d
Spectrum: Average Spectrum: 4.787 to 4.799 min.
Location of Maximum: 198.00
Number of points: 403

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	2356	186.00	61376	289.00	472	397.00	329
86.00	7037	187.00	18696	290.00	450	398.00	155
87.00	1807	188.00	1898	291.00	1088	399.00	682
88.00	626	189.00	6930	292.00	935	400.00	391
89.00	730	190.00	1774	293.00	3118	401.00	532
90.00	126	191.00	2816	294.00	1858	402.00	2702
91.00	3820	192.00	6614	295.00	1549	403.00	3631
92.00	4410	193.00	9130	296.00	34976	404.00	691
93.00	40112	194.00	3548	297.00	5057	406.00	391
94.00	2225	195.00	2809	298.00	448	407.00	84
95.00	687	196.00	17280	299.00	265	409.00	198
96.00	791	198.00	331648	300.00	509	410.00	208
97.00	834	199.00	28088	301.00	592	411.00	818
98.00	33800	200.00	3771	302.00	1112	412.00	214
99.00	18784	201.00	1174	303.00	5449	413.00	585
100.00	2088	202.00	4024	304.00	764	414.00	217
101.00	7043	203.00	6224	305.00	192	415.00	1390
102.00	113	204.00	20488	306.00	137	416.00	382
103.00	3211	205.00	38528	307.00	442	417.00	1206
104.00	4973	206.00	116168	308.00	1257	418.00	584
105.00	6942	207.00	15536	309.00	929	419.00	401
106.00	2422	208.00	5571	310.00	1224	420.00	2301
107.00	62920	209.00	1530	311.00	614	421.00	7118
108.00	8438	210.00	1806	312.00	512	422.00	4365
109.00	537	211.00	7437	313.00	491	423.00	16520
110.00	81848	212.00	1815	314.00	1901	424.00	3829
111.00	16334	213.00	741	315.00	4385	425.00	1164
112.00	2181	214.00	659	316.00	3146	426.00	530
113.00	1148	215.00	3066	317.00	1673	427.00	968
114.00	571	216.00	4341	318.00	380	428.00	830
115.00	691	217.00	38832	319.00	1010	429.00	2580
116.00	845	218.00	6002	320.00	291	430.00	1794
117.00	123544	219.00	1316	321.00	2690	431.00	1440
118.00	8064	220.00	681	322.00	1154	432.00	1888
119.00	1043	221.00	21792	323.00	10094	433.00	3474

Date : 25-JUN-2013 15:12

Client ID: DFTPP6Y Instrument: S6.i

Sample Info: DFTPP6Y,DFTPP6Y

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4630C.d
Spectrum: Average Spectrum: 4.787 to 4.799 min.
Location of Maximum: 198.00
Number of points: 403

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	1541	222.00	7645	324.00	2545	434.00	2020
121.00	791	223.00	10035	325.00	769	435.00	1415
122.00	6237	224.00	70560	326.00	104	436.00	4807
123.00	6285	225.00	20120	327.00	2701	437.00	9793
124.00	3739	226.00	1716	328.00	1046	438.00	27296
125.00	2822	227.00	36072	329.00	714	439.00	1066
126.00	570	228.00	7093	330.00	349	440.00	12770
127.00	134400	229.00	7428	331.00	598	441.00	31200
128.00	13233	230.00	2776	332.00	1761	442.00	293504
129.00	66240	231.00	4548	333.00	891	443.00	61048
130.00	6645	232.00	133	334.00	5583	444.00	8853
131.00	1908	233.00	757	335.00	1830	445.00	235
132.00	1407	234.00	3029	336.00	223	452.00	77
133.00	602	235.00	3138	337.00	77	461.00	383
134.00	3149	236.00	2247	338.00	96	469.00	139
135.00	6279	237.00	2831	339.00	113	471.00	75
136.00	2276	238.00	662	340.00	283	478.00	194
137.00	4495	239.00	1758	341.00	744	483.00	67
138.00	860	240.00	1917	342.00	318	502.00	175
139.00	929	241.00	2910	343.00	523	503.00	141
140.00	1253	242.00	6122	346.00	2259	507.00	170
141.00	12135	243.00	1025	347.00	272	511.00	218
142.00	4252	244.00	53416	349.00	666	517.00	53
143.00	3958	245.00	8245	350.00	600	518.00	66
144.00	794	246.00	15702	351.00	119	519.00	70
145.00	496	247.00	3888	352.00	3806	521.00	112
146.00	3016	248.00	2248	353.00	2696	524.00	134
147.00	7592	249.00	2020	354.00	3384	539.00	74
148.00	22776	250.00	659	355.00	991	544.00	167
149.00	3434	251.00	4231	356.00	410	549.00	82
150.00	1309	252.00	3153	357.00	306		

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626.B\S6B4660F.d
Lab Smp Id: DFTPP6Z Client Smp ID: DFTPP6Z
Inj Date : 26-JUN-2013 11:25
Operator : PK SRC: PK Inst ID: S6.i
Smp Info : DFTPP6Z,DFTPP6Z
Misc Info :
Comment :
Method : \\avogadro\organics\S6.I\130626.B\S6_dftppSOM.m
Meth Date : 21-Jun-2013 14:34 pkaczorows Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 50 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET113

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		
4.759	4.776	-0.017	198	334528			0.00- 100.00	100.00
4.759	4.776	-0.017	51	135434			10.00- 80.00	40.49
4.759	4.776	-0.017	68	3396			0.00- 2.00	1.91
4.759	4.776	-0.017	69	177773			0.00- 0.00	53.14
4.759	4.776	-0.017	70	2680			0.00- 2.00	1.51
4.759	4.776	-0.017	127	146064			10.00- 80.00	43.66
4.759	4.776	-0.017	197	1729			0.00- 2.00	0.52
4.759	4.776	-0.017	199	21487			5.00- 9.00	6.42
4.759	4.776	-0.017	275	114855			10.00- 60.00	34.33
4.759	4.776	-0.017	365	19563			1.00- 0.00	5.85
4.759	4.776	-0.017	441	26033			0.01- 99.99	38.15
4.759	4.776	-0.017	442	303978			50.00- 100.00	90.87
4.759	4.776	-0.017	443	68232			15.00- 24.00	22.45

Data File: \\avogadro\organics\S6.I\130626.B\S6B4660F.d

Date : 26-JUN-2013 11:25

Client ID: DFTPP6Z

Instrument: S6.i

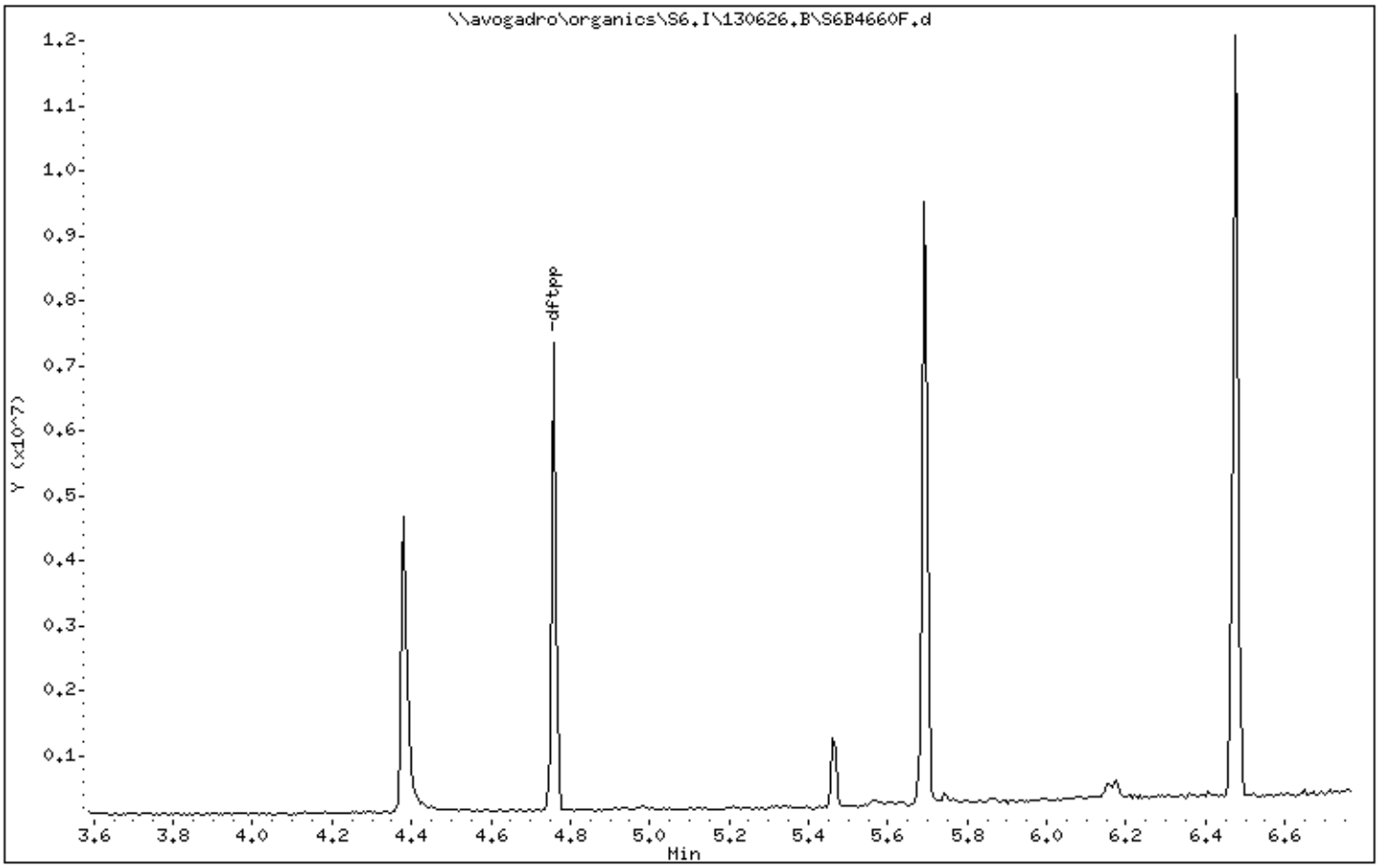
Sample Info: DFTPP6Z,DFTPP6Z

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130626.B\S6B4660F.d

Date : 26-JUN-2013 11:25

Client ID: DFTPP6Z

Instrument: S6.i

Sample Info: DFTPP6Z,DFTPP6Z

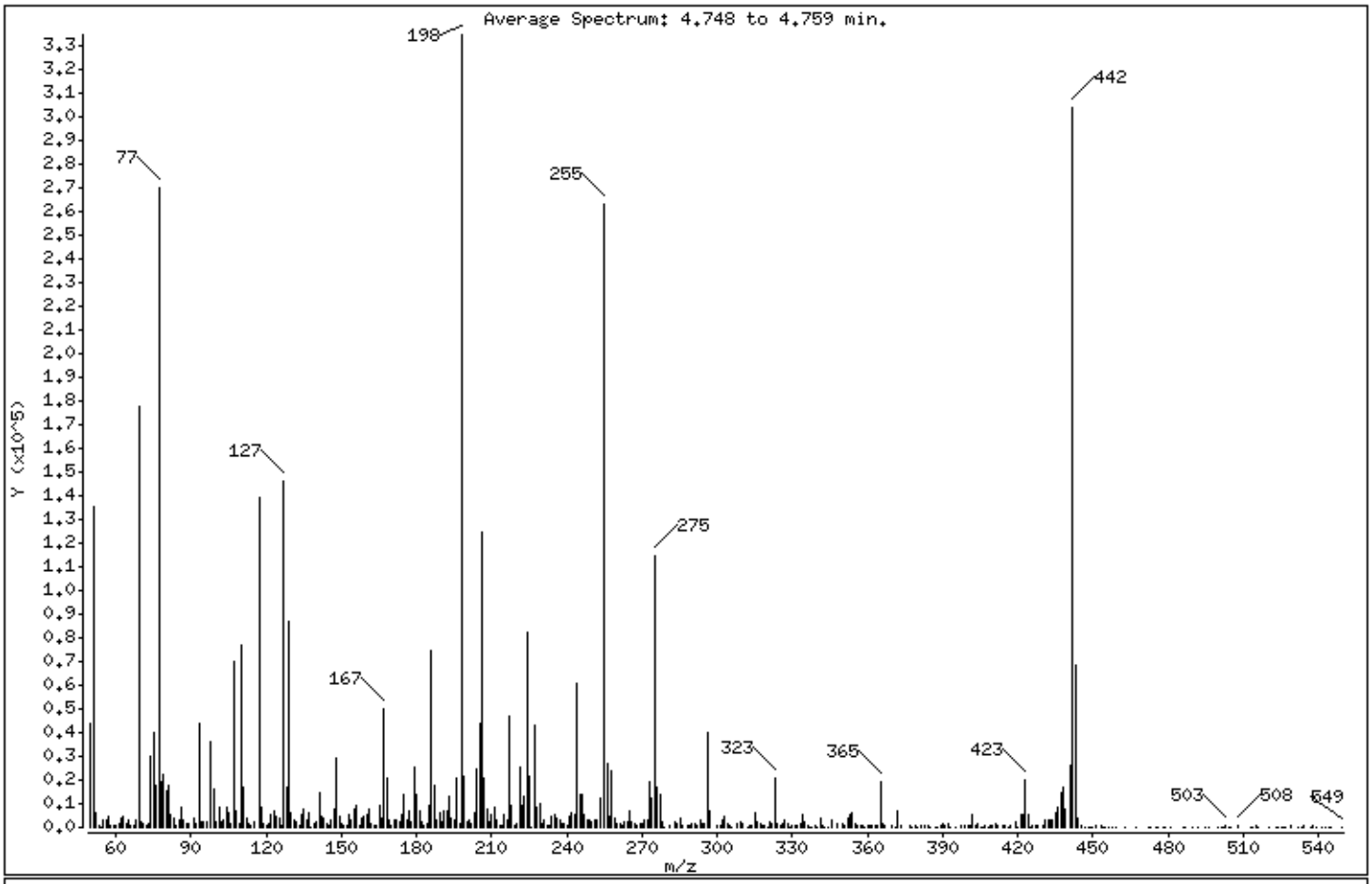
Volume Injected (uL): 2.0

Operator: PK SRC: PK

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	40.49
68	Less than 2.00% of mass 69	1.02 (1.91)
69	Mass 69 relative abundance	53.14
70	Less than 2.00% of mass 69	0.80 (1.51)
127	10.00 - 80.00% of mass 198	43.66
197	Less than 2.00% of mass 198	0.52
199	5.00 - 9.00% of mass 198	6.42
275	10.00 - 60.00% of mass 198	34.33
365	Greater than 1.00% of mass 198	5.85
441	Present, but less than mass 443	7.78
442	50.00 - 100.00% of mass 198	90.87
443	15.00 - 24.00% of mass 442	20.40 (22.45)

Date : 26-JUN-2013 11:25

Client ID: DFTPP6Z Instrument: S6.i

Sample Info: DFTPP6Z,DFTPP6Z

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4660F.d
Spectrum: Average Spectrum: 4.748 to 4.759 min.
Location of Maximum: 198.00
Number of points: 423

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	44208	159.00	4506	266.00	2088	389.00	438
51.00	135424	160.00	5191	267.00	1364	390.00	1454
52.00	6526	161.00	7374	268.00	660	391.00	476
53.00	795	162.00	1554	269.00	1362	392.00	1419
54.00	198	163.00	491	270.00	1709	393.00	244
55.00	3173	164.00	752	271.00	3356	395.00	59
56.00	3331	165.00	8987	272.00	2778	397.00	695
57.00	4598	166.00	3896	273.00	19432	399.00	1038
58.00	864	167.00	49832	274.00	12637	400.00	623
59.00	458	168.00	20552	275.00	114848	401.00	832
60.00	878	169.00	3355	276.00	16912	402.00	5363
61.00	1782	170.00	791	277.00	13705	403.00	1097
62.00	3556	171.00	3211	278.00	2346	404.00	1901
63.00	4526	172.00	2980	279.00	329	405.00	335
64.00	1204	173.00	1948	281.00	969	406.00	320
65.00	2735	174.00	5610	283.00	2190	407.00	563
66.00	594	175.00	13892	284.00	1191	408.00	91
67.00	1051	176.00	2756	285.00	3779	409.00	628
68.00	3396	177.00	6926	286.00	649	410.00	424
69.00	177728	178.00	2690	288.00	779	411.00	1907
70.00	2680	179.00	25552	289.00	630	412.00	591
71.00	1521	180.00	13543	290.00	1248	414.00	577
72.00	508	181.00	6636	291.00	1403	415.00	740
73.00	1772	182.00	2227	292.00	966	416.00	132
74.00	29944	183.00	574	293.00	2734	417.00	935
75.00	39872	184.00	1741	294.00	1840	419.00	2478
76.00	17944	185.00	9325	295.00	1354	420.00	365
77.00	270272	186.00	74504	296.00	40232	421.00	5421
78.00	19504	187.00	17528	297.00	6544	422.00	5021
79.00	22064	188.00	3228	300.00	515	423.00	20144
80.00	15536	189.00	6000	301.00	584	424.00	5111
81.00	17464	190.00	2534	302.00	2945	425.00	236
82.00	5187	191.00	7002	303.00	4577	426.00	716
83.00	4086	192.00	6675	304.00	1597	427.00	793
84.00	428	193.00	13326	305.00	511	428.00	770

Date : 26-JUN-2013 11:25

Client ID: DFTPP6Z Instrument: S6.i

Sample Info: DFTPP6Z,DFTPP6Z

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4660F.d
Spectrum: Average Spectrum: 4.748 to 4.759 min.
Location of Maximum: 198.00
Number of points: 423

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	3357	194.00	4040	306.00	226	430.00	776
86.00	8165	195.00	2882	308.00	1378	431.00	2877
87.00	3167	196.00	20656	309.00	2017	432.00	3241
88.00	1509	197.00	1729	310.00	1845	433.00	3456
89.00	1414	198.00	334528	312.00	289	434.00	3392
91.00	4110	199.00	21480	313.00	400	435.00	6296
92.00	1808	200.00	2403	314.00	958	436.00	8462
93.00	43680	201.00	3043	315.00	5922	437.00	14850
94.00	2496	202.00	1874	316.00	2477	438.00	17128
95.00	2233	203.00	6491	317.00	1366	439.00	7807
96.00	2111	204.00	24688	318.00	643	441.00	26032
98.00	36112	205.00	44064	319.00	908	442.00	303936
99.00	16223	206.00	124840	320.00	263	443.00	68232
100.00	2262	207.00	20392	321.00	2016	444.00	3871
101.00	8303	208.00	7944	322.00	1775	445.00	788
102.00	2267	209.00	2621	323.00	20784	447.00	74
103.00	3252	210.00	5255	324.00	1892	448.00	292
104.00	8076	211.00	8750	325.00	609	449.00	300
105.00	6504	212.00	3366	326.00	1311	450.00	381
106.00	1543	213.00	745	327.00	3029	451.00	393
107.00	70032	214.00	1001	328.00	1514	453.00	861
108.00	7230	215.00	5186	329.00	164	454.00	244
109.00	1690	216.00	3137	330.00	584	455.00	235
110.00	76816	217.00	46568	331.00	862	456.00	240
111.00	16920	218.00	9437	332.00	565	458.00	83
112.00	3610	219.00	773	333.00	1407	459.00	223
113.00	1617	220.00	1694	334.00	5272	463.00	102
114.00	410	221.00	25184	335.00	2356	467.00	174
115.00	2055	222.00	9264	336.00	589	472.00	292
117.00	139456	223.00	12811	337.00	351	473.00	295
118.00	8215	224.00	82160	338.00	303	475.00	95
119.00	1567	225.00	21896	339.00	414	476.00	146
120.00	817	226.00	362	340.00	348	478.00	107
121.00	1324	227.00	43008	341.00	3776	479.00	213
122.00	5651	228.00	8488	342.00	490	481.00	199

Date : 26-JUN-2013 11:25

Client ID: DFTPP6Z Instrument: S6.i

Sample Info: DFTPP6Z,DFTPP6Z

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4660F.d
Spectrum: Average Spectrum: 4.748 to 4.759 min.
Location of Maximum: 198.00
Number of points: 423

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	6901	229.00	10151	343.00	239	486.00	259
124.00	4384	230.00	1648	344.00	84	487.00	118
125.00	4022	231.00	2961	346.00	3435	490.00	131
126.00	669	232.00	442	348.00	1244	492.00	289
127.00	146048	233.00	1120	350.00	1656	495.00	65
128.00	16928	234.00	4355	351.00	985	496.00	73
129.00	86568	235.00	5196	352.00	4107	500.00	329
130.00	6215	236.00	3749	353.00	5054	501.00	125
131.00	2910	237.00	3131	354.00	6253	502.00	176
132.00	1977	238.00	1468	355.00	1850	503.00	592
133.00	798	239.00	1270	356.00	449	504.00	100
134.00	5469	240.00	757	357.00	454	505.00	71
135.00	7774	241.00	4568	358.00	534	508.00	676
136.00	2994	242.00	6377	359.00	85	513.00	67
137.00	6302	243.00	5279	360.00	807	514.00	78
138.00	253	244.00	60592	361.00	516	515.00	448
139.00	1393	245.00	13588	362.00	736	516.00	292
140.00	2408	246.00	13995	363.00	1090	520.00	50
141.00	14355	247.00	5306	364.00	770	523.00	57
142.00	4685	248.00	3129	365.00	19560	524.00	222
143.00	3498	249.00	3220	366.00	1269	525.00	121
144.00	1641	250.00	2436	367.00	714	526.00	246
145.00	1126	251.00	3396	370.00	802	527.00	78
146.00	3341	252.00	2977	371.00	266	529.00	658
147.00	7554	253.00	12554	372.00	7104	532.00	72
148.00	29096	255.00	263296	373.00	546	533.00	142
149.00	4801	256.00	26616	377.00	467	534.00	593
150.00	1533	257.00	4578	378.00	202	537.00	167
151.00	1044	258.00	23808	379.00	838	538.00	567
152.00	797	259.00	4208	380.00	154	539.00	362
153.00	5398	260.00	1669	381.00	825	541.00	110
154.00	2698	261.00	1712	383.00	1134	543.00	229
155.00	7905	262.00	439	384.00	1018	544.00	207
156.00	9251	263.00	2568	385.00	73	545.00	182
157.00	1015	264.00	1965	387.00	146	549.00	67

Date : 26-JUN-2013 11:25

Client ID: DFTPP6Z Instrument: S6.i

Sample Info: DFTPP6Z,DFTPP6Z

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4660F.d
Spectrum: Average Spectrum: 4.748 to 4.759 min.
Location of Maximum: 198.00
Number of points: 423

m/z	Y	m/z	Y	m/z	Y	m/z	Y
158.00	3502	265.00	7225	388.00	103		

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626A.B\S6B4670I.d
Lab Smp Id: DFTPP6A Client Smp ID: DFTPP6A
Inj Date : 26-JUN-2013 17:40
Operator : PK SRC: PK Inst ID: S6.i
Smp Info : DFTPP6A,DFTPP6A
Misc Info :
Comment :
Method : \\avogadro\organics\S6.I\130626A.B\S6_dftppSOM.m
Meth Date : 26-Jun-2013 17:17 pkaczorows Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 50 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET113

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 (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	MASS	RESPONSE				
1 dftpp						CAS #: 5074-71-5		
4.753	4.753	0.000	198	118394			0.00- 100.00	100.00
4.753	4.753	0.000	51	44242			10.00- 80.00	37.37
4.753	4.753	0.000	68	0	0.0	0.0	0.00- 2.00	0.00
4.753	4.753	0.000	69	57868			0.00- 0.00	48.88
4.753	4.753	0.000	70	720			0.00- 2.00	1.24
4.753	4.753	0.000	127	49833			10.00- 80.00	42.09
4.753	4.753	0.000	197	0	0.0	0.0	0.00- 2.00	0.00
4.753	4.753	0.000	199	8744			5.00- 9.00	7.39
4.753	4.753	0.000	275	39276			10.00- 60.00	33.17
4.753	4.753	0.000	365	6039			1.00- 0.00	5.10
4.753	4.753	0.000	441	20371			0.01- 99.99	94.22
4.753	4.753	0.000	442	112364			50.00- 100.00	94.91
4.753	4.753	0.000	443	21620			15.00- 24.00	19.24

Data File: \\avogadro\organics\S6.I\130626A.B\S6B4670I.d

Date : 26-JUN-2013 17:40

Client ID: DFTPP6A

Instrument: S6.i

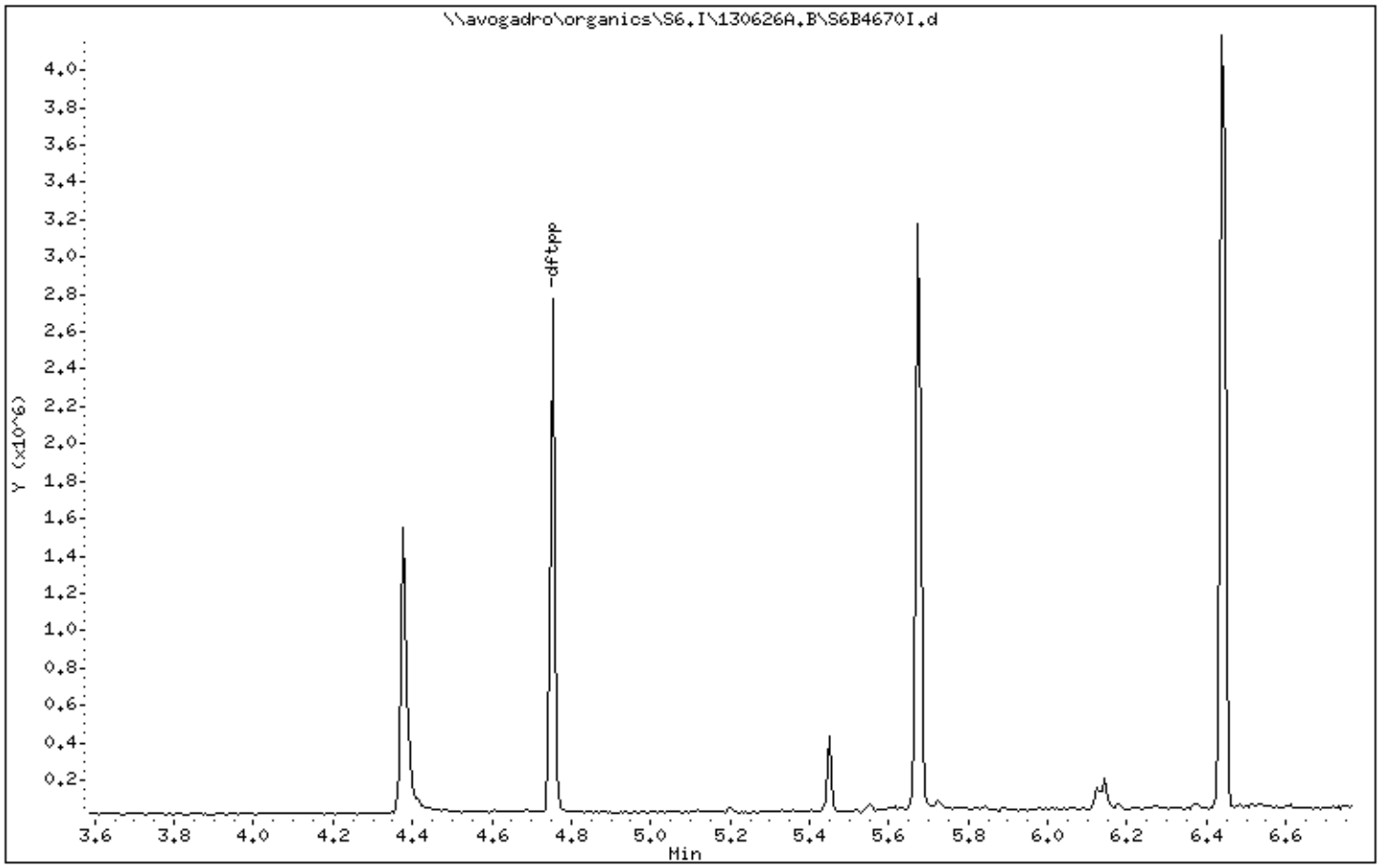
Sample Info: DFTPP6A,DFTPP6A

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130626A.B\S6B4670I.d

Date : 26-JUN-2013 17:40

Client ID: DFTPP6A

Instrument: S6.i

Sample Info: DFTPP6A,DFTPP6A

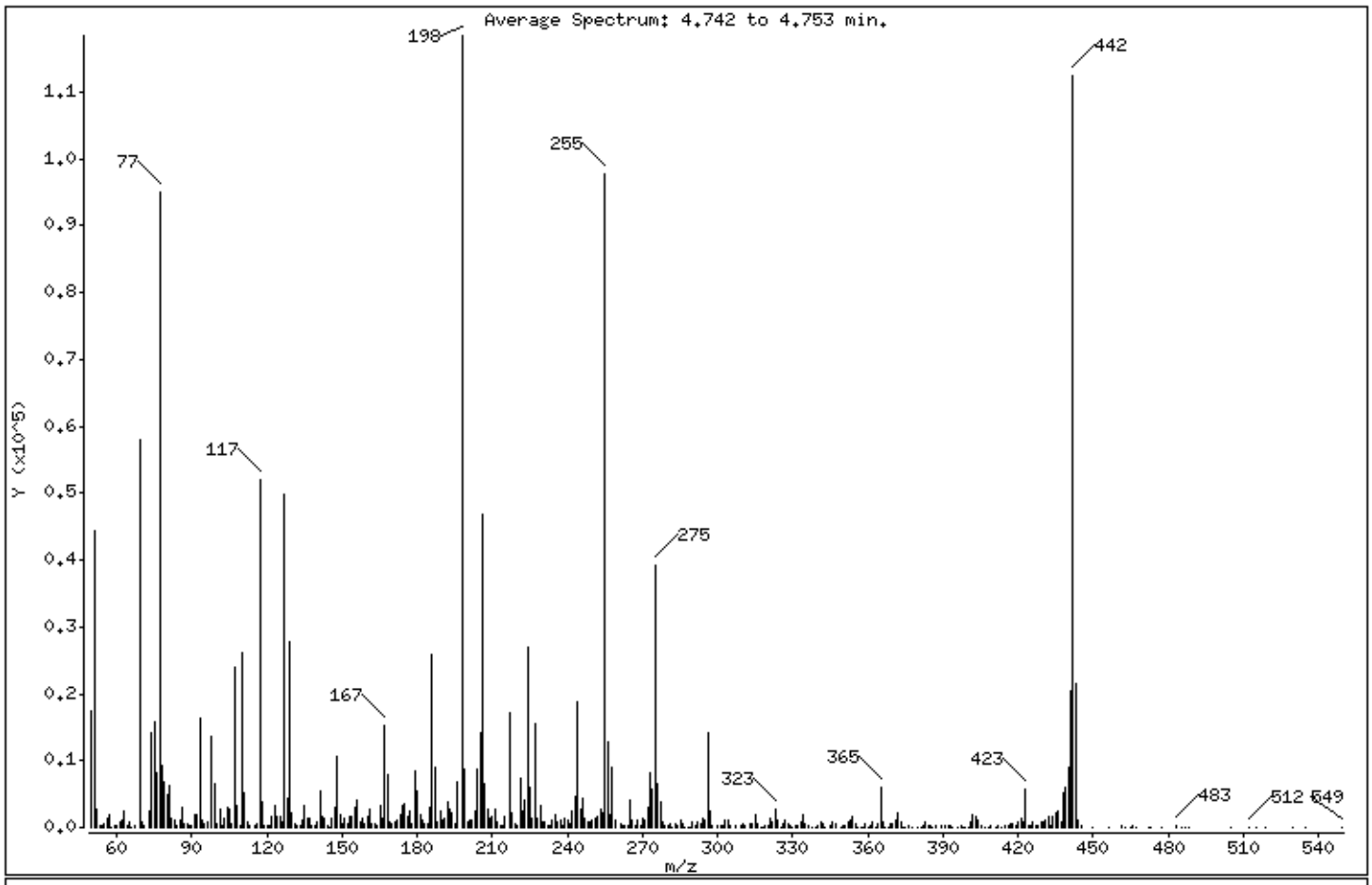
Volume Injected (uL): 2.0

Operator: PK SRC: PK

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	37.37
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.88
70	Less than 2.00% of mass 69	0.61 (1.24)
127	10.00 - 80.00% of mass 198	42.09
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.39
275	10.00 - 60.00% of mass 198	33.17
365	Greater than 1.00% of mass 198	5.10
441	Present, but less than mass 443	17.21
442	50.00 - 100.00% of mass 198	94.91
443	15.00 - 24.00% of mass 442	18.26 (19.24)

Date : 26-JUN-2013 17:40

Client ID: DFTPP6A Instrument: S6.i

Sample Info: DFTPP6A,DFTPP6A

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4670I.d
Spectrum: Average Spectrum: 4.742 to 4.753 min.
Location of Maximum: 198.00
Number of points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	17288	153.00	1566	254.00	2216	361.00	350
51.00	44240	154.00	1585	255.00	97592	362.00	859
52.00	2661	155.00	3030	256.00	12736	363.00	55
53.00	326	156.00	3989	257.00	2000	364.00	562
54.00	258	157.00	885	258.00	8941	365.00	6039
55.00	409	158.00	1442	259.00	1024	366.00	769
56.00	1316	159.00	596	261.00	417	367.00	122
57.00	1946	160.00	1628	262.00	243	368.00	101
58.00	135	161.00	2665	263.00	241	369.00	477
59.00	195	162.00	577	264.00	215	370.00	600
60.00	377	163.00	538	265.00	3965	371.00	1024
61.00	690	164.00	307	266.00	1070	372.00	2207
62.00	1204	165.00	3204	267.00	220	373.00	698
63.00	2328	166.00	1431	268.00	1161	374.00	74
64.00	243	167.00	15337	269.00	194	375.00	50
65.00	833	168.00	8009	270.00	1495	376.00	157
66.00	120	169.00	717	271.00	1063	378.00	100
67.00	317	170.00	481	272.00	2859	380.00	63
69.00	57864	171.00	780	273.00	8224	381.00	128
70.00	720	172.00	1127	274.00	5606	382.00	180
71.00	327	173.00	1860	275.00	39272	383.00	780
73.00	2364	174.00	3328	276.00	6548	384.00	144
74.00	14071	175.00	3456	277.00	3918	385.00	190
75.00	15856	176.00	1684	278.00	849	386.00	51
76.00	8073	177.00	2353	279.00	223	387.00	306
77.00	94888	178.00	426	280.00	336	389.00	144
78.00	9172	179.00	8405	281.00	415	391.00	402
79.00	6915	180.00	5404	282.00	69	392.00	268
80.00	4969	181.00	1951	283.00	589	393.00	335
81.00	6307	182.00	1051	284.00	330	394.00	86
82.00	1423	183.00	423	285.00	1205	396.00	75
83.00	1178	184.00	538	286.00	607	397.00	257
84.00	301	185.00	2973	287.00	85	398.00	103
85.00	1101	186.00	25808	288.00	57	399.00	73
86.00	2971	187.00	9107	289.00	67	400.00	109

Date : 26-JUN-2013 17:40

Client ID: DFTPP6A Instrument: S6.i

Sample Info: DFTPP6A,DFTPP6A

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4670I.d
Spectrum: Average Spectrum: 4.742 to 4.753 min.
Location of Maximum: 198.00
Number of points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
87.00	442	188.00	727	290.00	833	401.00	848
88.00	433	189.00	2582	291.00	259	402.00	1884
89.00	228	190.00	1078	292.00	888	403.00	1721
90.00	170	191.00	1287	293.00	448	404.00	1178
91.00	1801	192.00	3923	294.00	1269	405.00	236
92.00	1951	193.00	2812	295.00	1117	407.00	82
93.00	16360	194.00	2137	296.00	14035	408.00	101
94.00	980	195.00	411	297.00	2410	409.00	401
95.00	593	196.00	6829	298.00	389	411.00	87
96.00	763	198.00	118392	300.00	198	412.00	375
98.00	13572	199.00	8744	301.00	376	413.00	107
99.00	6611	200.00	911	302.00	207	415.00	174
100.00	674	201.00	1059	303.00	1029	416.00	236
101.00	2679	202.00	1192	304.00	1206	417.00	644
102.00	166	203.00	2422	305.00	156	418.00	512
103.00	1356	204.00	8709	307.00	174	419.00	225
104.00	2877	205.00	14142	309.00	315	420.00	858
105.00	2797	206.00	46904	310.00	593	421.00	1296
106.00	517	207.00	6591	311.00	308	422.00	891
107.00	24056	208.00	2729	313.00	513	423.00	5651
108.00	3232	209.00	1492	314.00	441	424.00	293
109.00	191	210.00	1541	315.00	2035	425.00	199
110.00	26088	211.00	2841	316.00	637	426.00	912
111.00	5114	212.00	690	317.00	89	427.00	236
112.00	716	213.00	314	318.00	91	428.00	149
113.00	201	214.00	404	319.00	379	429.00	750
115.00	309	215.00	1578	320.00	148	430.00	682
116.00	463	217.00	17200	321.00	1400	431.00	1174
117.00	51952	218.00	2297	322.00	780	432.00	1661
118.00	3937	219.00	626	323.00	2829	433.00	305
119.00	359	220.00	364	324.00	992	434.00	1765
120.00	207	221.00	7282	325.00	88	435.00	2144
121.00	364	222.00	2562	326.00	441	436.00	2414
122.00	1747	223.00	4191	327.00	966	437.00	743
123.00	3311	224.00	26992	328.00	535	438.00	5199

Date : 26-JUN-2013 17:40

Client ID: DFTPP6A Instrument: S6.i

Sample Info: DFTPP6A,DFTPP6A

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4670I.d
Spectrum: Average Spectrum: 4.742 to 4.753 min.
Location of Maximum: 198.00
Number of points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
124.00	1497	225.00	6033	329.00	179	439.00	5999
125.00	1583	226.00	1469	330.00	127	440.00	8867
126.00	798	227.00	15405	331.00	373	441.00	20368
127.00	49832	228.00	1401	332.00	258	442.00	112360
128.00	4456	229.00	3228	333.00	896	443.00	21616
129.00	27808	230.00	780	334.00	2027	444.00	1075
130.00	2258	231.00	725	335.00	668	445.00	361
131.00	519	232.00	177	336.00	257	450.00	86
132.00	259	233.00	286	338.00	102	456.00	78
133.00	386	234.00	1072	339.00	134	461.00	284
134.00	1015	235.00	1820	340.00	315	463.00	62
135.00	3154	236.00	782	341.00	722	465.00	107
136.00	1297	237.00	1183	342.00	517	466.00	176
137.00	1493	238.00	356	343.00	103	467.00	77
138.00	191	239.00	1387	345.00	370	472.00	63
139.00	403	240.00	1069	346.00	828	473.00	126
140.00	686	241.00	643	347.00	547	477.00	50
141.00	5505	242.00	2548	349.00	91	483.00	177
142.00	1760	243.00	4507	350.00	296	485.00	59
143.00	1357	244.00	18880	351.00	227	487.00	123
144.00	397	245.00	2594	352.00	840	488.00	67
145.00	124	246.00	4359	353.00	1179	505.00	57
146.00	1495	247.00	1233	354.00	1508	512.00	82
147.00	3097	248.00	857	355.00	679	515.00	66
148.00	10549	249.00	939	356.00	110	519.00	62
149.00	2041	250.00	960	357.00	103	530.00	58
150.00	495	251.00	1371	358.00	134	535.00	61
151.00	1366	252.00	1769	359.00	433	549.00	79
152.00	568	253.00	2743	360.00	93		

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130627.B\S6B4710I.d
Lab Smp Id: DFTPP6B Client Smp ID: DFTPP6B
Inj Date : 27-JUN-2013 11:51
Operator : PK SRC: PK Inst ID: S6.i
Smp Info : DFTPP6B,DFTPP6B
Misc Info :
Comment :
Method : \\avogadro\organics\S6.I\130627.B\S6_dftppSOM.m
Meth Date : 27-Jun-2013 10:19 pkaczorows Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 50 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET113

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		
4.684	4.685	-0.001	198	355008			0.00- 100.00	100.00
4.684	4.685	-0.001	51	159232			10.00- 80.00	44.85
4.684	4.685	-0.001	68	0	0.0	0.0	0.00- 2.00	0.00
4.684	4.685	-0.001	69	185984			0.00- 0.00	52.39
4.684	4.685	-0.001	70	1516			0.00- 2.00	0.82
4.684	4.685	-0.001	127	183552			10.00- 80.00	51.70
4.684	4.685	-0.001	197	0	0.0	0.0	0.00- 2.00	0.00
4.684	4.685	-0.001	199	26720			5.00- 9.00	7.53
4.684	4.685	-0.001	275	103680			10.00- 60.00	29.20
4.684	4.685	-0.001	365	18064			1.00- 0.00	5.09
4.684	4.685	-0.001	441	49104			0.01- 99.99	62.33
4.684	4.685	-0.001	442	339072			50.00- 100.00	95.51
4.684	4.685	-0.001	443	78776			15.00- 24.00	23.23

Data File: \\avogadro\organics\S6.I\130627.B\S6B4710I.d

Date : 27-JUN-2013 11:51

Client ID: DFTPP6B

Instrument: S6.i

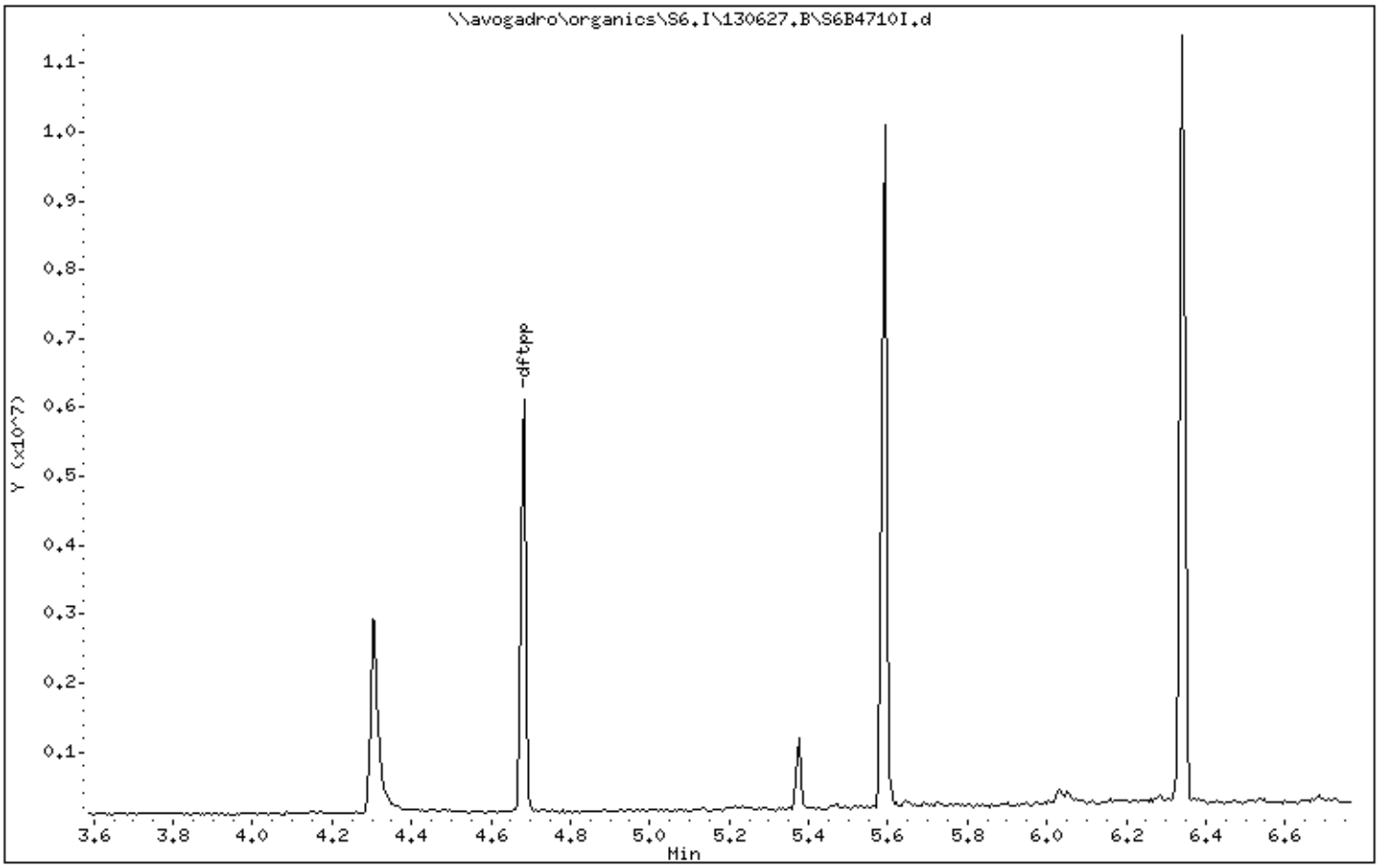
Sample Info: DFTPP6B,DFTPP6B

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130627.B\S6B4710I.d

Date : 27-JUN-2013 11:51

Client ID: DFTPP6B

Instrument: S6.i

Sample Info: DFTPP6B,DFTPP6B

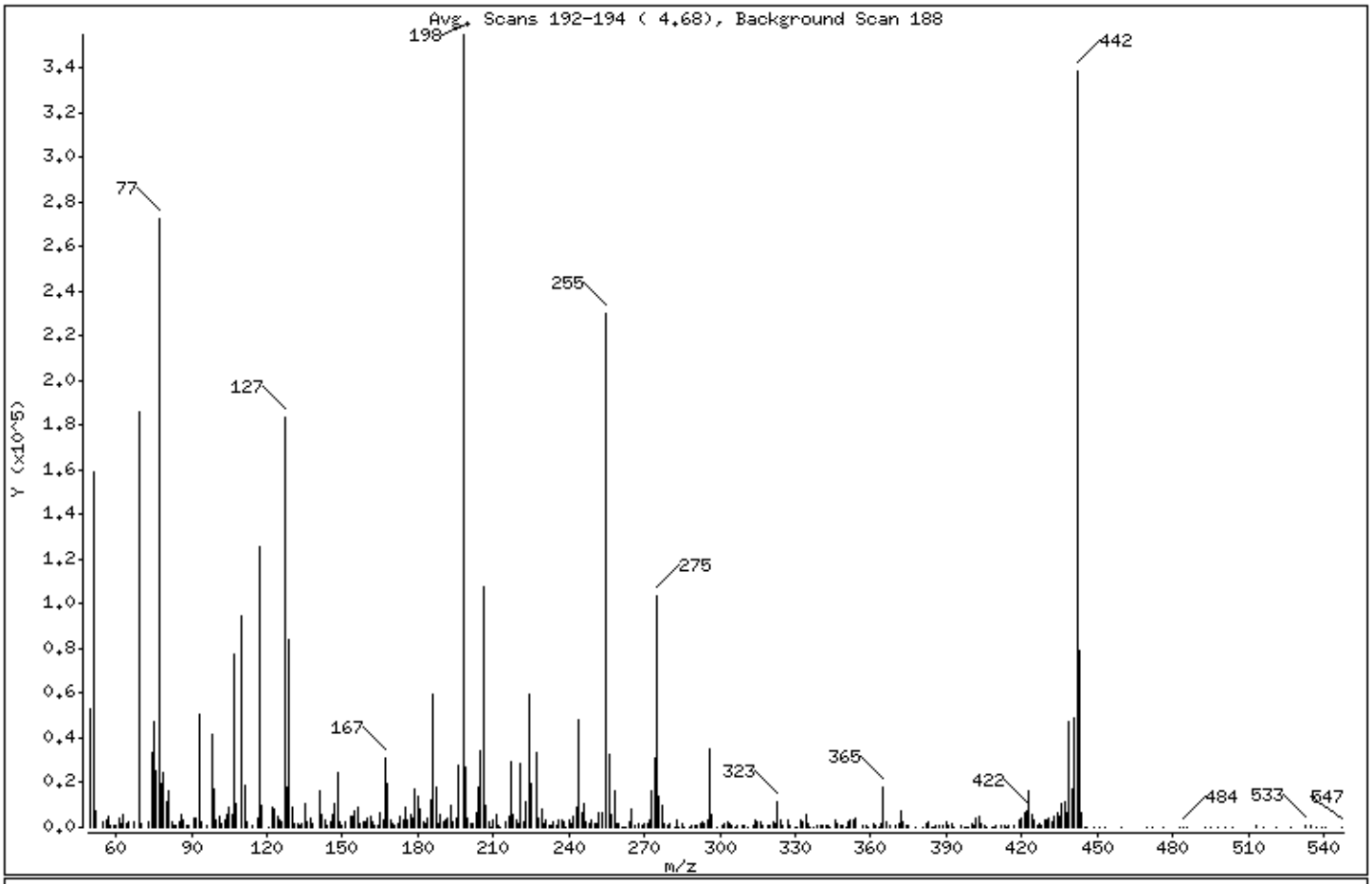
Volume Injected (uL): 2.0

Operator: PK SRC: PK

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	44.85
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.39
70	Less than 2.00% of mass 69	0.43 (0.82)
127	10.00 - 80.00% of mass 198	51.70
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.53
275	10.00 - 60.00% of mass 198	29.20
365	Greater than 1.00% of mass 198	5.09
441	Present, but less than mass 443	13.83
442	50.00 - 100.00% of mass 198	95.51
443	15.00 - 24.00% of mass 442	22.19 (23.23)

Date : 27-JUN-2013 11:51

Client ID: DFTPP6B Instrument: S6.i

Sample Info: DFTPP6B,DFTPP6B

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4710I.d
Spectrum: Avg. Scans 192-194 (4.68), Background Scan 188
Location of Maximum: 198.00
Number of points: 373

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	52976	161.00	4576	259.00	1315	370.00	513
51.00	159232	162.00	2324	260.00	1244	371.00	1747
52.00	7023	163.00	705	261.00	281	372.00	7532
55.00	2444	164.00	863	262.00	179	373.00	2228
56.00	3082	165.00	6633	263.00	79	374.00	1107
57.00	4714	166.00	2941	264.00	2429	375.00	524
58.00	455	167.00	30696	265.00	8520	378.00	384
59.00	798	168.00	19296	266.00	795	381.00	355
60.00	1221	169.00	2994	268.00	1627	382.00	1719
61.00	3839	170.00	1922	269.00	1193	383.00	2337
62.00	1943	171.00	1021	270.00	1741	384.00	357
63.00	5595	172.00	1812	271.00	2015	385.00	123
64.00	1561	173.00	4901	272.00	3588	386.00	562
65.00	2205	174.00	3227	273.00	16051	387.00	627
67.00	2396	175.00	8970	274.00	31336	389.00	559
69.00	185984	176.00	3374	275.00	103680	390.00	2441
70.00	1516	177.00	5554	276.00	13528	391.00	540
73.00	2050	178.00	3801	277.00	9412	392.00	1766
74.00	33176	179.00	17016	278.00	1568	393.00	260
75.00	46952	180.00	14088	279.00	989	396.00	423
76.00	25648	181.00	8081	280.00	1562	397.00	67
77.00	272192	182.00	2346	282.00	389	398.00	115
78.00	19864	183.00	1498	283.00	3267	399.00	50
79.00	24264	184.00	3957	284.00	35	400.00	1689
80.00	11707	185.00	12232	285.00	1957	401.00	1190
81.00	16664	186.00	59824	286.00	344	402.00	3881
82.00	2553	187.00	17552	288.00	73	403.00	5006
83.00	910	188.00	1830	289.00	541	404.00	1261
84.00	519	189.00	5361	290.00	667	405.00	647
85.00	2584	190.00	2432	291.00	456	406.00	139
86.00	5434	191.00	3135	292.00	1366	408.00	100
87.00	3647	192.00	3994	293.00	2483	409.00	276
88.00	1172	193.00	9398	294.00	1597	410.00	1008
89.00	745	194.00	2822	295.00	3239	412.00	758
91.00	3748	195.00	3938	296.00	34872	413.00	1173

Date : 27-JUN-2013 11:51

Client ID: DFTPP6B Instrument: S6.i

Sample Info: DFTPP6B,DFTPP6B

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4710I.d
Spectrum: Avg. Scans 192-194 (4.68), Background Scan 188
Location of Maximum: 198.00
Number of points: 373

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	4103	196.00	27400	297.00	5871	414.00	184
93.00	50280	198.00	355008	299.00	296	415.00	668
94.00	2369	199.00	26720	301.00	725	417.00	1082
96.00	494	200.00	4316	302.00	1789	419.00	2968
98.00	41976	201.00	1994	303.00	2603	420.00	3804
99.00	16992	202.00	1305	304.00	1252	421.00	6503
100.00	3563	203.00	6193	305.00	917	422.00	7043
101.00	5000	204.00	18192	306.00	67	423.00	16544
102.00	1643	205.00	34152	307.00	570	424.00	5766
103.00	3087	206.00	107576	309.00	495	425.00	3652
104.00	5667	207.00	9619	310.00	566	426.00	1158
105.00	8860	208.00	2567	311.00	255	427.00	1976
106.00	5843	209.00	361	313.00	904	428.00	835
107.00	77528	210.00	3009	314.00	3033	429.00	3379
108.00	10202	211.00	5918	315.00	2226	430.00	3500
110.00	94288	212.00	985	316.00	2085	431.00	4143
111.00	18512	213.00	315	317.00	622	432.00	2777
112.00	2500	215.00	2299	319.00	687	433.00	4660
114.00	861	216.00	5231	320.00	1171	434.00	6207
116.00	4202	217.00	29528	321.00	2219	435.00	4524
117.00	126088	218.00	5813	322.00	1676	436.00	10622
118.00	9438	219.00	3417	323.00	11570	437.00	11444
121.00	388	220.00	2008	324.00	2918	438.00	6124
122.00	9334	221.00	28392	325.00	1161	439.00	47096
123.00	7918	222.00	2069	327.00	3657	440.00	17176
124.00	4951	223.00	11746	328.00	1125	441.00	49104
125.00	3073	224.00	59424	330.00	385	442.00	339072
126.00	2219	225.00	19744	331.00	361	443.00	78776
127.00	183552	227.00	33600	332.00	2915	444.00	6251
128.00	18120	228.00	4278	333.00	2071	445.00	194
129.00	84032	229.00	7968	334.00	5712	446.00	83
130.00	8600	230.00	1252	335.00	1643	449.00	95
131.00	1824	231.00	3314	336.00	51	451.00	79
132.00	1417	232.00	946	337.00	290	453.00	60
133.00	771	233.00	654	339.00	595	460.00	181

Date : 27-JUN-2013 11:51

Client ID: DFTPP6B Instrument: S6.i

Sample Info: DFTPP6B,DFTPP6B

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4710I.d
Spectrum: Avg. Scans 192-194 (4.68), Background Scan 188
Location of Maximum: 198.00
Number of points: 373

m/z	Y	m/z	Y	m/z	Y	m/z	Y
134.00	1351	234.00	2106	340.00	682	470.00	77
135.00	10308	235.00	920	341.00	672	472.00	63
136.00	2824	236.00	2981	342.00	604	476.00	95
137.00	3713	237.00	3493	343.00	524	483.00	59
138.00	1392	238.00	2219	344.00	245	484.00	267
141.00	16322	239.00	212	346.00	3153	486.00	163
142.00	5786	240.00	3379	347.00	2032	493.00	55
143.00	3331	241.00	1514	348.00	906	495.00	140
144.00	548	242.00	4499	349.00	624	498.00	168
145.00	2311	243.00	8841	350.00	290	501.00	58
146.00	5650	244.00	47840	351.00	2712	504.00	87
147.00	10610	245.00	6779	352.00	3013	513.00	509
148.00	24600	246.00	10315	353.00	3295	516.00	142
149.00	2167	247.00	2338	354.00	3782	521.00	191
150.00	478	248.00	1687	357.00	983	527.00	69
151.00	2206	249.00	2881	358.00	425	533.00	695
153.00	4490	250.00	1496	359.00	309	535.00	651
154.00	4686	251.00	2032	361.00	1227	537.00	79
155.00	7716	252.00	6299	362.00	758	539.00	320
156.00	9248	253.00	6532	363.00	134	541.00	53
157.00	1887	255.00	230208	364.00	1313	547.00	138
158.00	2268	256.00	32920	365.00	18064		
159.00	2317	257.00	5503	366.00	2155		
160.00	3981	258.00	16071	368.00	829		

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130628.B\S6B4740D.d
Lab Smp Id: DFTPP6C Client Smp ID: DFTPP6C
Inj Date : 28-JUN-2013 09:58
Operator : PK SRC: PK Inst ID: S6.i
Smp Info : DFTPP6C,DFTPP6C
Misc Info :
Comment :
Method : \\avogadro\organics\S6.I\130628.B\S6_dftppSOM.m
Meth Date : 27-Jun-2013 10:19 pkaczorows Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 50 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET113

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		
4.690	4.685	0.005	198	514112			0.00- 100.00	100.00
4.690	4.685	0.005	51	262400			10.00- 80.00	51.04
4.690	4.685	0.005	68	1005			0.00- 2.00	0.34
4.690	4.685	0.005	69	296192			0.00- 0.00	57.61
4.690	4.685	0.005	70	1678			0.00- 2.00	0.57
4.690	4.685	0.005	127	268352			10.00- 80.00	52.20
4.690	4.685	0.005	197	0	0.0	0.0	0.00- 2.00	0.00
4.690	4.685	0.005	199	40312			5.00- 9.00	7.84
4.690	4.685	0.005	275	169088			10.00- 60.00	32.89
4.690	4.685	0.005	365	24760			1.00- 0.00	4.82
4.690	4.685	0.005	441	91224			0.01- 99.99	92.32
4.690	4.685	0.005	442	481536			50.00- 100.00	93.66
4.690	4.685	0.005	443	98808			15.00- 24.00	20.52

Data File: \\avogadro\organics\S6.I\130628.B\S6B4740D.d

Date : 28-JUN-2013 09:58

Client ID: DFTPP6C

Instrument: S6.i

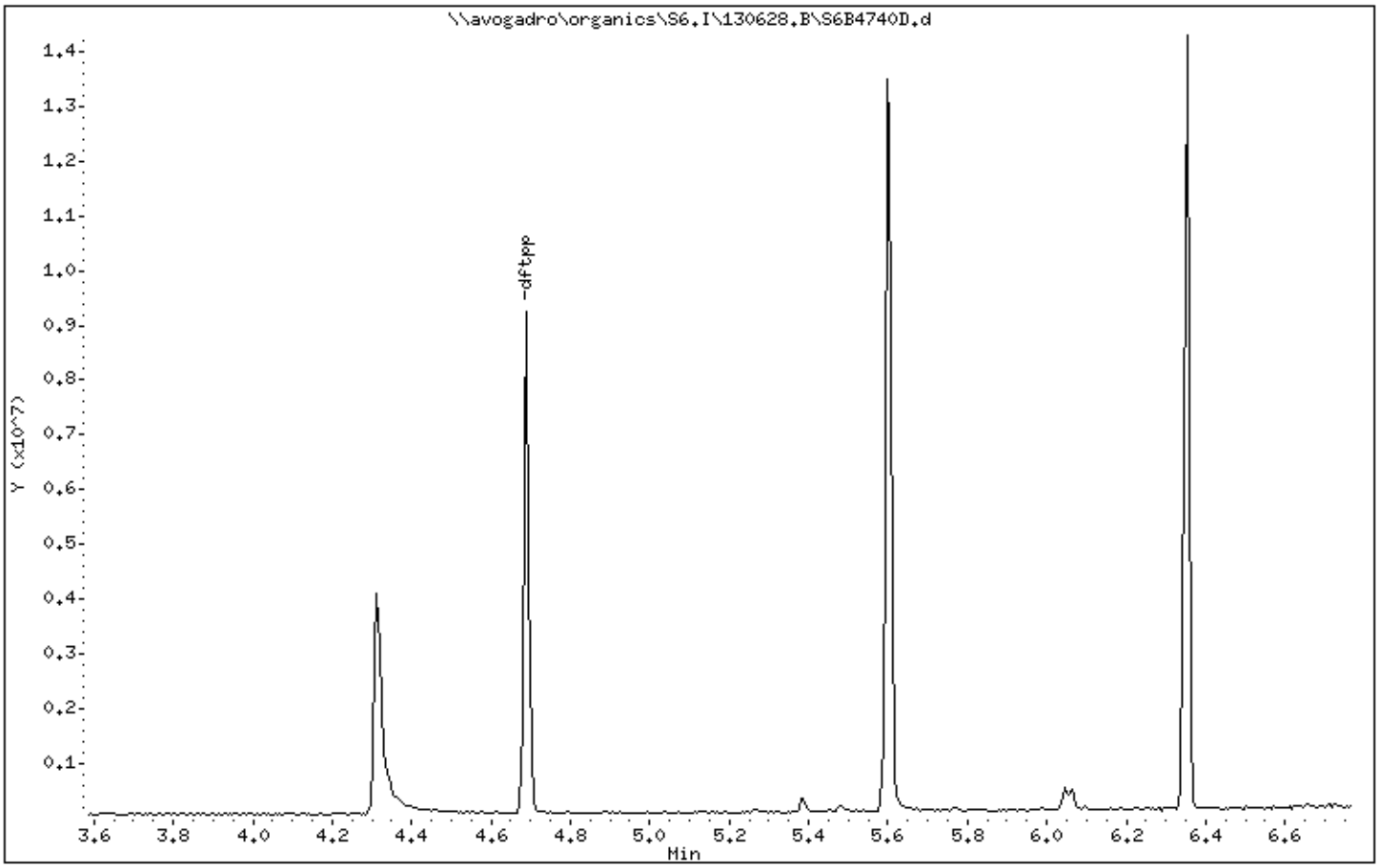
Sample Info: DFTPP6C,DFTPP6C

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\avogadro\organics\S6.I\130628.B\S6B4740D.d

Date : 28-JUN-2013 09:58

Client ID: DFTPP6C

Instrument: S6.i

Sample Info: DFTPP6C,DFTPP6C

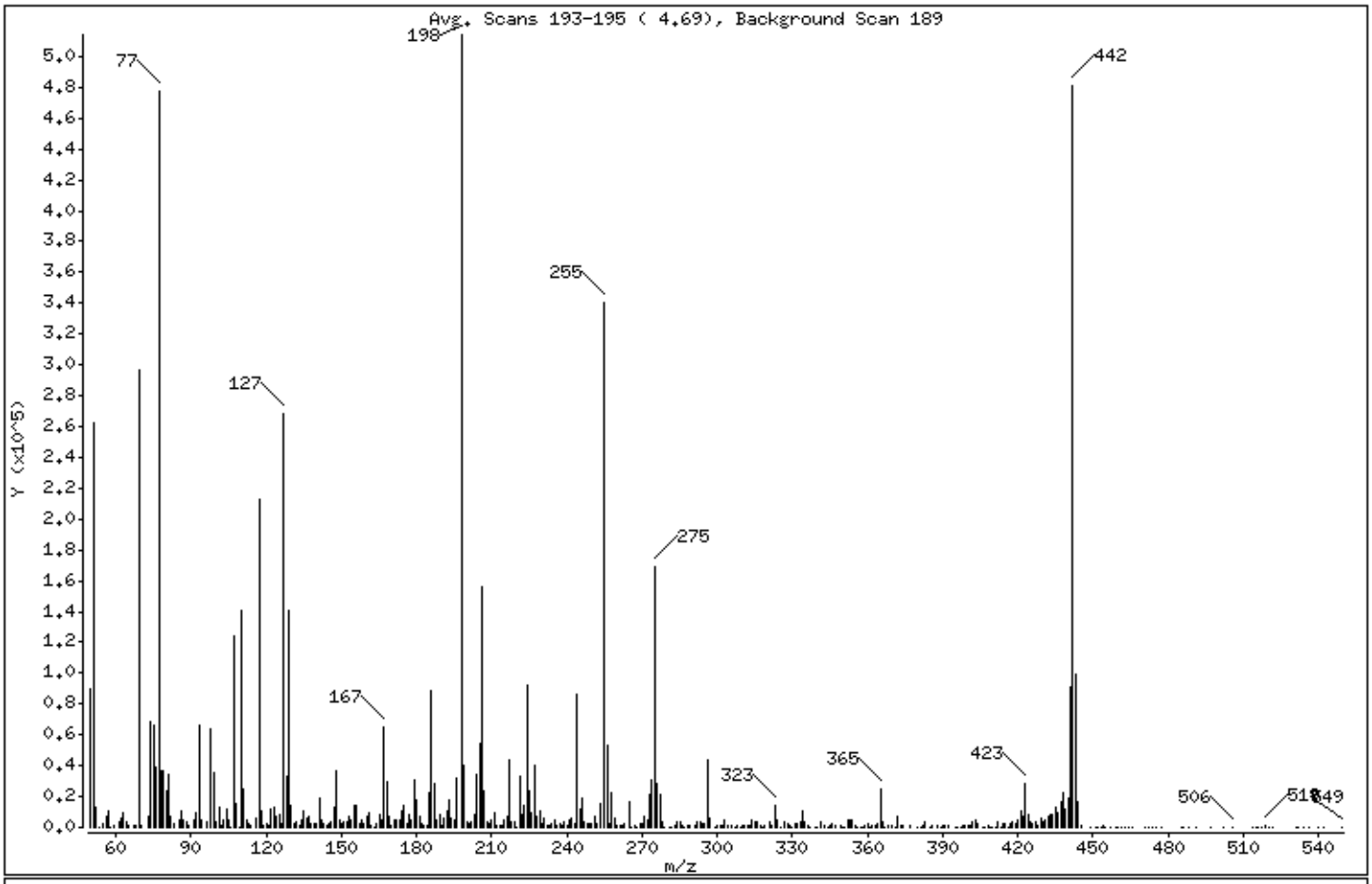
Volume Injected (uL): 2.0

Operator: PK SRC: PK

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	51.04
68	Less than 2.00% of mass 69	0.20 (0.34)
69	Mass 69 relative abundance	57.61
70	Less than 2.00% of mass 69	0.33 (0.57)
127	10.00 - 80.00% of mass 198	52.20
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.84
275	10.00 - 60.00% of mass 198	32.89
365	Greater than 1.00% of mass 198	4.82
441	Present, but less than mass 443	17.74
442	50.00 - 100.00% of mass 198	93.66
443	15.00 - 24.00% of mass 442	19.22 (20.52)

Date : 28-JUN-2013 09:58

Client ID: DFTPP6C Instrument: S6.i

Sample Info: DFTPP6C,DFTPP6C

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4740D.d
Spectrum: Avg. Scans 193-195 (4.69), Background Scan 189
Location of Maximum: 198.00
Number of points: 403

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	90216	161.00	9284	265.00	16029	380.00	383
51.00	262400	162.00	1651	266.00	199	381.00	135
52.00	12590	163.00	329	267.00	1088	382.00	740
53.00	336	164.00	2381	268.00	333	383.00	3983
55.00	2300	165.00	8782	269.00	2791	385.00	375
56.00	6758	166.00	4865	270.00	2749	386.00	953
57.00	10722	167.00	64632	271.00	6650	388.00	1048
58.00	162	168.00	29496	272.00	4911	389.00	480
59.00	795	169.00	7456	273.00	21576	390.00	1658
61.00	3744	170.00	1595	274.00	30264	391.00	1202
62.00	5623	171.00	4623	275.00	169088	392.00	1577
63.00	9684	172.00	4657	276.00	28192	395.00	218
64.00	2986	173.00	5025	277.00	21192	396.00	84
65.00	1385	174.00	10775	278.00	3791	397.00	513
67.00	1459	175.00	14680	279.00	381	398.00	967
68.00	1005	176.00	2889	281.00	260	399.00	597
69.00	296192	177.00	8813	282.00	287	400.00	1283
70.00	1678	178.00	4366	283.00	1289	401.00	949
73.00	6918	179.00	30712	284.00	3544	402.00	3367
74.00	68608	180.00	17904	285.00	3773	403.00	4896
75.00	66288	181.00	6761	286.00	1511	404.00	2058
76.00	38632	182.00	2196	287.00	137	406.00	383
77.00	478016	183.00	1275	288.00	1272	407.00	58
78.00	36232	184.00	1181	289.00	916	408.00	1323
79.00	36568	185.00	22592	291.00	852	409.00	333
80.00	23048	186.00	88648	292.00	3682	410.00	461
81.00	34096	187.00	28232	293.00	3117	411.00	393
82.00	7457	188.00	4219	294.00	1955	412.00	2994
83.00	2757	189.00	8013	295.00	2480	413.00	104
85.00	4732	190.00	979	296.00	44080	414.00	2539
86.00	10447	191.00	5850	297.00	5972	415.00	2614
87.00	5076	192.00	10420	299.00	306	416.00	259
88.00	3461	193.00	17824	300.00	1045	417.00	2464
89.00	1405	194.00	6193	301.00	730	418.00	3059
91.00	5087	195.00	5231	302.00	1624	419.00	2150

Date : 28-JUN-2013 09:58

Client ID: DFTPP6C Instrument: S6.i

Sample Info: DFTPP6C,DFTPP6C

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4740D.d
Spectrum: Avg. Scans 193-195 (4.69), Background Scan 189
Location of Maximum: 198.00
Number of points: 403

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	9909	196.00	32248	303.00	4811	420.00	4379
93.00	65616	198.00	514112	304.00	1763	421.00	10399
94.00	4552	199.00	40312	306.00	681	422.00	7375
96.00	3473	200.00	3751	307.00	312	423.00	28352
98.00	64120	201.00	2880	308.00	639	424.00	8499
99.00	35328	202.00	3216	309.00	53	425.00	3591
100.00	3948	203.00	8055	310.00	848	426.00	2442
101.00	12771	204.00	34704	311.00	1574	427.00	3666
102.00	788	205.00	54400	312.00	1334	428.00	1723
103.00	4937	206.00	156160	313.00	1018	429.00	5894
104.00	11701	207.00	23368	314.00	4226	430.00	4001
105.00	4785	208.00	3341	315.00	3198	431.00	4586
106.00	292	209.00	2330	316.00	3502	432.00	6875
107.00	123856	210.00	4775	317.00	1553	433.00	7876
108.00	15919	211.00	8867	318.00	174	434.00	8423
109.00	190	212.00	1686	319.00	1238	435.00	12800
110.00	140288	213.00	1540	321.00	3892	436.00	8999
111.00	25088	214.00	658	322.00	1195	437.00	16314
112.00	5012	215.00	5158	323.00	14410	438.00	22208
113.00	2218	216.00	6982	324.00	4443	439.00	12206
114.00	1243	217.00	43312	325.00	566	440.00	19480
116.00	6232	218.00	3244	327.00	3118	441.00	91224
117.00	212608	219.00	3488	328.00	1859	442.00	481536
118.00	10602	220.00	401	329.00	1037	443.00	98808
119.00	1513	221.00	32776	330.00	442	444.00	16576
120.00	1988	222.00	8844	331.00	2334	445.00	757
121.00	1082	223.00	14278	332.00	2373	449.00	170
122.00	11502	224.00	91856	333.00	3273	451.00	149
123.00	12938	225.00	23728	334.00	10840	452.00	213
124.00	7147	226.00	9014	335.00	3561	453.00	182
125.00	7891	227.00	39688	336.00	822	454.00	757
126.00	2280	228.00	7226	337.00	238	455.00	122
127.00	268352	229.00	10598	339.00	51	457.00	238
128.00	32896	230.00	2089	340.00	57	459.00	62
129.00	141184	231.00	5976	341.00	3088	460.00	211

Date : 28-JUN-2013 09:58

Client ID: DFTPP6C Instrument: S6.i

Sample Info: DFTPP6C,DFTPP6C

Volume Injected (uL): 2.0 Operator: PK SRC: PK

Column phase: RXi-5SILMS Column diameter: 0.25

Data File: S6B4740D.d
Spectrum: Avg. Scans 193-195 (4.69), Background Scan 189
Location of Maximum: 198.00
Number of points: 403

m/z	Y	m/z	Y	m/z	Y	m/z	Y
130.00	13907	232.00	1681	343.00	990	461.00	502
131.00	2908	233.00	968	344.00	538	463.00	67
132.00	3285	234.00	2345	345.00	1048	464.00	433
133.00	1625	235.00	5025	346.00	2029	466.00	61
134.00	4933	236.00	1267	347.00	637	471.00	123
135.00	10945	237.00	2335	349.00	818	472.00	69
136.00	5977	238.00	1085	350.00	389	474.00	254
137.00	7302	239.00	3432	351.00	468	475.00	103
138.00	1939	240.00	1428	352.00	4607	477.00	118
139.00	2598	241.00	5293	353.00	4278	485.00	50
140.00	2648	242.00	6098	354.00	4608	486.00	105
141.00	19208	243.00	2950	355.00	1111	488.00	140
142.00	4744	244.00	86192	356.00	18	491.00	127
143.00	2473	245.00	11755	357.00	315	497.00	250
144.00	914	246.00	19376	358.00	505	502.00	254
145.00	1895	247.00	3039	359.00	1052	506.00	507
146.00	4048	248.00	2400	360.00	1962	514.00	71
147.00	12836	249.00	2471	361.00	221	515.00	50
148.00	36464	250.00	2205	362.00	1202	516.00	250
149.00	4604	251.00	7432	363.00	993	517.00	461
150.00	2008	252.00	2934	364.00	2744	519.00	637
151.00	3081	253.00	14969	365.00	24760	520.00	64
152.00	3150	255.00	339840	366.00	2979	522.00	354
153.00	6533	256.00	52608	367.00	59	531.00	86
154.00	4505	257.00	2145	368.00	1271	532.00	69
155.00	14442	258.00	22440	370.00	1380	534.00	81
156.00	13868	259.00	5753	371.00	568	536.00	128
157.00	2583	260.00	1092	372.00	6943	540.00	57
158.00	4399	261.00	831	373.00	1703	542.00	486
159.00	2290	262.00	596	374.00	791	549.00	140
160.00	6672	263.00	1852	377.00	805		

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-72397

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-72397

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B4744.D

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/28/2013

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
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	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
120-82-1	1,2,4-Trichlorobenzene	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

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-72397

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-72397

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B4744.D

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/28/2013

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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
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

Data File: \\avogadro\organics\S6.I\130628.B\S6B4744.d
Report Date: 28-Jun-2013 14:20

Spectrum Analytical, Inc. RI Division

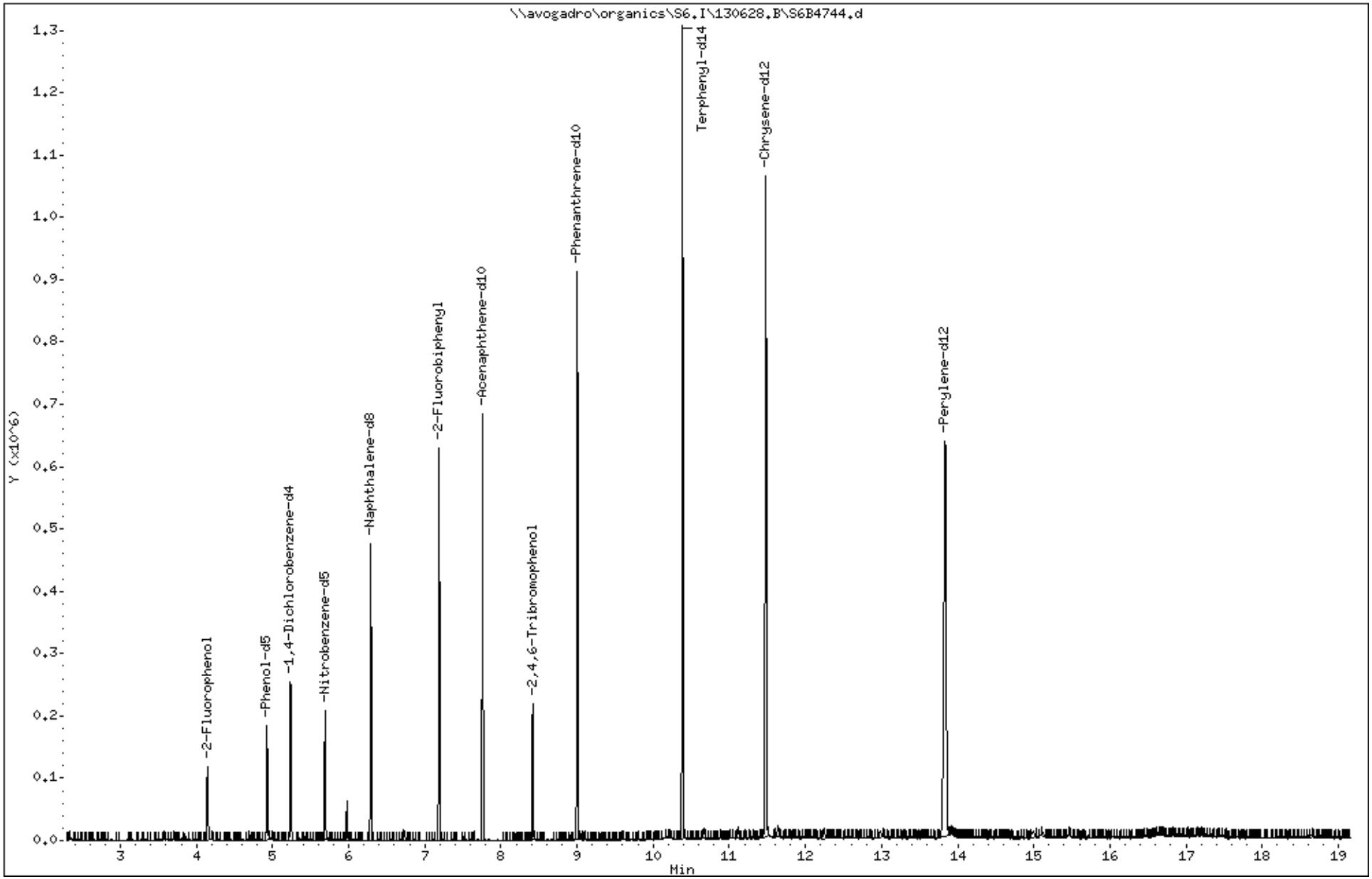
Data file : \\avogadro\organics\S6.I\130628.B\S6B4744.d
Lab Smp Id: MB-72397 Client Smp ID: MB-72397
Inj Date : 28-JUN-2013 13:12
Operator : PK SRC: LIMS Inst ID: S6.i
Smp Info : MB-72397,MB-72397,72397
Misc Info :
Comment   :
Method   : \\avogadro\organics\S6.I\130628.B\S6_8270C_N.m
Meth Date : 28-Jun-2013 14:20 S6.i Quant Type: ISTD
Cal Date : 27-JUN-2013 16:11 Cal File: S6B4716.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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)	CONCENTRATIONS FINAL (ug/Kg)
$	3 2-Fluorophenol	112	4.144	4.138	(0.791)	30989	35.7768	2400
$	5 Phenol-d5	99	4.926	4.926	(0.941)	48767	41.2242	2700
*	12 1,4-Dichlorobenzene-d4	152	5.237	5.237	(1.000)	35647	40.0000	
$	22 Nitrobenzene-d5	82	5.690	5.690	(0.904)	55005	43.2237	2900
*	31 Naphthalene-d8	136	6.295	6.295	(1.000)	150715	40.0000	
$	41 2-Fluorobiphenyl	172	7.188	7.188	(0.927)	150992	41.9471	2800
*	48 Acenaphthene-d10	164	7.758	7.764	(1.000)	119955	40.0000	
$	60 2,4,6-Tribromophenol	330	8.416	8.416	(0.935)	19019	25.8992	1700
*	64 Phenanthrene-d10	188	9.004	9.003	(1.000)	297230	40.0000	
$	72 Terphenyl-d14	244	10.384	10.372	(0.904)	310022	45.2326	3000
*	76 Chrysene-d12	240	11.483	11.465	(1.000)	469364	40.0000	
*	83 Perylene-d12	264	13.833	13.816	(1.000)	529888	40.0000	

Data File: \\avogadro\organics\S6.I\130628.B\S6B4744.d
Date : 28-JUN-2013 13:12
Client ID: MB-72397
Instrument: S6.i
Sample Info: MB-72397,MB-72397,72397
Volume Injected (uL): 1.0
Operator: PK SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-72397

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-72397

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B4676.D

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/26/2013

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	3100	
111-44-4	Bis(2-chloroethyl)ether	2600	
95-57-8	2-Chlorophenol	3400	
541-73-1	1,3-Dichlorobenzene	2700	
106-46-7	1,4-Dichlorobenzene	2700	
95-50-1	1,2-Dichlorobenzene	2800	
95-48-7	2-Methylphenol	3100	
108-60-1	2,2´-oxybis(1-Chloropropane)	2800	
106-44-5	4-Methylphenol	2800	
621-64-7	N-Nitroso-di-n-propylamine	2600	
67-72-1	Hexachloroethane	2500	
98-95-3	Nitrobenzene	2800	
78-59-1	Isophorone	2800	
88-75-5	2-Nitrophenol	2800	
105-67-9	2,4-Dimethylphenol	3100	
120-83-2	2,4-Dichlorophenol	3300	
120-82-1	1,2,4-Trichlorobenzene	2700	
91-20-3	Naphthalene	2700	
106-47-8	4-Chloroaniline	2300	
111-91-1	Bis(2-chloroethoxy)methane	2900	
87-68-3	Hexachlorobutadiene	2800	
59-50-7	4-Chloro-3-methylphenol	3100	
91-57-6	2-Methylnaphthalene	2700	
77-47-4	Hexachlorocyclopentadiene	2500	
88-06-2	2,4,6-Trichlorophenol	2800	
95-95-4	2,4,5-Trichlorophenol	2900	
91-58-7	2-Chloronaphthalene	2600	
88-74-4	2-Nitroaniline	2800	
131-11-3	Dimethylphthalate	2800	
208-96-8	Acenaphthylene	2700	
606-20-2	2,6-Dinitrotoluene	2800	
99-09-2	3-Nitroaniline	2600	
83-32-9	Acenaphthene	2600	
51-28-5	2,4-Dinitrophenol	3200	
100-02-7	4-Nitrophenol	3000	
132-64-9	Dibenzofuran	2800	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-72397

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-72397

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B4676.D

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/24/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/26/2013

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	2900	
84-66-2	Diethylphthalate	2800	
7005-72-3	4-Chlorophenyl-phenylether	2600	
86-73-7	Fluorene	2800	
100-01-6	4-Nitroaniline	2800	
534-52-1	4,6-Dinitro-2-methylphenol	2600	
86-30-6	N-Nitrosodiphenylamine	2500	
101-55-3	4-Bromophenyl-phenylether	2300	
118-74-1	Hexachlorobenzene	2400	
87-86-5	Pentachlorophenol	2400	
85-01-8	Phenanthrene	2600	
120-12-7	Anthracene	2600	
86-74-8	Carbazole	2900	
84-74-2	Di-n-butylphthalate	2800	
206-44-0	Fluoranthene	2900	
129-00-0	Pyrene	2500	
85-68-7	Butylbenzylphthalate	2400	
91-94-1	3,3´-Dichlorobenzidine	2200	
56-55-3	Benzo(a)anthracene	2400	
218-01-9	Chrysene	2600	
117-81-7	Bis(2-ethylhexyl)phthalate	2400	
117-84-0	Di-n-octylphthalate	2600	
205-99-2	Benzo(b)fluoranthene	2600	
207-08-9	Benzo(k)fluoranthene	2800	
50-32-8	Benzo(a)pyrene	2600	
193-39-5	Indeno(1,2,3-cd)pyrene	2900	
53-70-3	Dibenzo(a,h)anthracene	2500	
191-24-2	Benzo(g,h,i)perylene	2600	

Data File: \\avogadro\organics\S6.I\130626A.B\S6B4676.d
Report Date: 27-Jun-2013 14:57

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S6.I\130626A.B\S6B4676.d
Lab Smp Id: LCS-72397 Client Smp ID: LCS-72397
Inj Date : 26-JUN-2013 20:59
Operator : PK SRC: LIMS Inst ID: S6.i
Smp Info : LCS-72397,LCS-72397,72397
Misc Info :
Comment   :
Method   : \\avogadro\organics\S6.I\130626A.B\S6_8270C_N.m
Meth Date : 27-Jun-2013 14:57 S6.i Quant Type: ISTD
Cal Date : 26-JUN-2013 14:43 Cal File: S6B4666.d
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

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)
1	N-Nitrosodimethylamine	74	2.993	3.005	(0.564)	8829	32.7038	2200
2	Pyridine	79	3.034	3.046	(0.572)	10639	24.7349	1600
$ 3	2-Fluorophenol	112	4.221	4.215	(0.795)	35308	48.3803	3200
101	Benzaldehyde	77	4.938	4.943	(0.930)	26977	37.4921	2500
$ 5	Phenol-d5	99	5.002	4.996	(0.942)	50281	47.1941	3100
6	Phenol	94	5.014	5.008	(0.945)	53154	45.8598	3000
7	Aniline	66	5.008	5.008	(0.944)	42820	46.2085	3100(Q)
8	bis(2-Chloroethyl)Ether	63	5.079	5.079	(0.957)	14456	39.1759	2600(Q)
10	2-Chlorophenol	128	5.137	5.137	(0.968)	48736	50.6280	3400
11	1,3-Dichlorobenzene	146	5.261	5.267	(0.991)	45042	40.0828	2700
* 12	1,4-Dichlorobenzene-d4	152	5.308	5.308	(1.000)	36805	40.0000	
13	1,4-Dichlorobenzene	146	5.319	5.320	(1.002)	48061	40.4186	2700
15	Benzyl Alcohol	108	5.419	5.419	(1.021)	30717	43.4238	2900
16	1,2-Dichlorobenzene	146	5.455	5.455	(1.028)	48360	42.2669	2800
17	2-Methylphenol	108	5.513	5.508	(1.039)	43398	45.8960	3000
18	2,2'-oxybis(1-Chloropropane)	45	5.525	5.525	(1.041)	13316	42.0760	2800(Q)
99	Acetophenone	105	5.637	5.637	(1.062)	76488	41.4820	2800
19	N-Nitroso-di-n-propylamine	70	5.637	5.637	(1.062)	29696	39.4090	2600
20	4-Methylphenol	108	5.637	5.637	(1.062)	48665	41.6127	2800

Data File: \\avogadro\organics\S6.I\130626A.B\S6B4676.d
Report Date: 27-Jun-2013 14:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
	21 Hexachloroethane	117	5.737	5.737	(1.081)	18062	38.0424	2500
$	22 Nitrobenzene-d5	82	5.766	5.766	(0.906)	56306	41.5184	2800
	23 Nitrobenzene	77	5.778	5.784	(0.908)	55039	41.4662	2800
	24 Isophorone	82	5.978	5.978	(0.939)	92079	41.5672	2800
	25 2-Nitrophenol	139	6.042	6.048	(0.949)	31821	41.9373	2800
	26 2,4-Dimethylphenol	107	6.072	6.072	(0.954)	61261	46.8830	3100
	27 bis(2-Chloroethoxy)methane	93	6.148	6.148	(0.966)	46190	42.8967	2800
	28 Benzoic Acid	105	6.171	6.166	(0.970)	45840	40.1910	2700(Q)
	29 2,4-Dichlorophenol	162	6.248	6.248	(0.982)	73708	49.8070	3300
	30 1,2,4-Trichlorobenzene	180	6.318	6.318	(0.993)	73328	40.8165	2700
*	31 Naphthalene-d8	136	6.365	6.365	(1.000)	167522	40.0000	
	32 Naphthalene	128	6.383	6.383	(1.003)	150637	41.0666	2700
	33 4-Chloroaniline	127	6.418	6.424	(1.008)	52061	34.1735	2300
	34 Hexachlorobutadiene	225	6.489	6.489	(1.019)	57823	42.1305	2800
	102 Caprolactam	113	6.730	6.718	(1.057)	28116	62.3801	4200(R)
	35 4-Chloro-3-Methylphenol	107	6.824	6.824	(1.072)	64176	46.0969	3100
	36 2-Methylnaphthalene	142	6.959	6.959	(1.093)	126857	40.4791	2700
	114 1-Methylnaphthalene	142	7.041	7.041	(1.106)	132904	44.9106	3000
	38 Hexachlorocyclopentadiene	237	7.094	7.094	(0.906)	63735	37.0961	2500
	112 1,2,4,5-Tetrachlorobenzene	216	7.100	7.100	(0.906)	167331	49.2778	3300
	39 2,4,6-Trichlorophenol	196	7.194	7.194	(0.918)	93539	42.3640	2800
	40 2,4,5-Trichlorophenol	196	7.223	7.223	(0.922)	101027	42.8300	2800
$	41 2-Fluorobiphenyl	172	7.258	7.258	(0.926)	235477	38.7076	2600
	98 1,1'-Biphenyl	154	7.341	7.347	(0.937)	252487	42.9851	2900
	42 2-Chloronaphthalene	162	7.364	7.364	(0.940)	175294	39.6763	2600
	43 2-Nitroaniline	65	7.441	7.441	(0.950)	48314	41.3656	2800
	44 Dimethylphthalate	163	7.587	7.587	(0.969)	274723	42.2130	2800
	45 2,6-Dinitrotoluene	165	7.640	7.640	(0.975)	62767	41.7328	2800
	46 Acenaphthylene	152	7.717	7.717	(0.985)	292594	40.1187	2700
	47 3-Nitroaniline	138	7.787	7.787	(0.994)	47271	38.2672	2600
*	48 Acenaphthene-d10	164	7.834	7.834	(1.000)	192755	40.0000	
	49 Acenaphthene	153	7.858	7.864	(1.003)	201334	39.4966	2600
	50 2,4-Dinitrophenol	184	7.869	7.870	(1.004)	56948	48.4662	3200(Q)
	51 4-Nitrophenol	109	7.916	7.917	(1.010)	78043	45.4447	3000
	53 2,4-Dinitrotoluene	165	7.981	7.981	(1.019)	94022	42.9813	2900
	52 Dibenzofuran	168	7.999	8.005	(1.021)	327864	41.6223	2800
	110 2,3,4,6-Tetrachlorophenol	232	8.104	8.105	(1.034)	111643	42.8361	2800
	54 Diethylphthalate	149	8.169	8.175	(1.043)	266635	42.0346	2800
	56 4-Chlorophenyl-phenylether	204	8.275	8.275	(1.056)	183050	39.5928	2600
	55 Fluorene	166	8.287	8.287	(1.058)	296613	42.4721	2800
	57 4-Nitroaniline	138	8.298	8.298	(1.059)	60383	41.8339	2800
	58 4,6-Dinitro-2-methylphenol	198	8.322	8.322	(0.917)	82022	39.3014	2600
	59 N-Nitrosodiphenylamine	169	8.375	8.375	(0.923)	274145	37.4118	2500
	97 Azobenzene	77	8.410	8.410	(0.927)	283725	37.6370	2500
$	60 2,4,6-Tribromophenol	330	8.486	8.492	(0.935)	72930	35.4236	2400
	61 4-Bromophenyl-phenylether	248	8.686	8.686	(0.957)	127479	34.7495	2300
	62 Hexachlorobenzene	284	8.757	8.757	(0.965)	144067	36.1122	2400
	100 Atrazine	200	8.810	8.810	(0.971)	143211	107.884	7200(AR)
	63 Pentachlorophenol	266	8.915	8.915	(0.983)	111375	35.9597	2400
	111 Pentachloronitrobenzene	237	8.915	8.933	(0.983)	6217	2.97535	200(aQ)
*	64 Phenanthrene-d10	188	9.074	9.080	(1.000)	603340	40.0000	
	65 Phenanthrene	178	9.097	9.098	(1.003)	530592	39.7172	2600
	66 Anthracene	178	9.139	9.139	(1.007)	539102	39.4801	2600
	67 Carbazole	167	9.262	9.268	(1.021)	503546	43.2850	2900

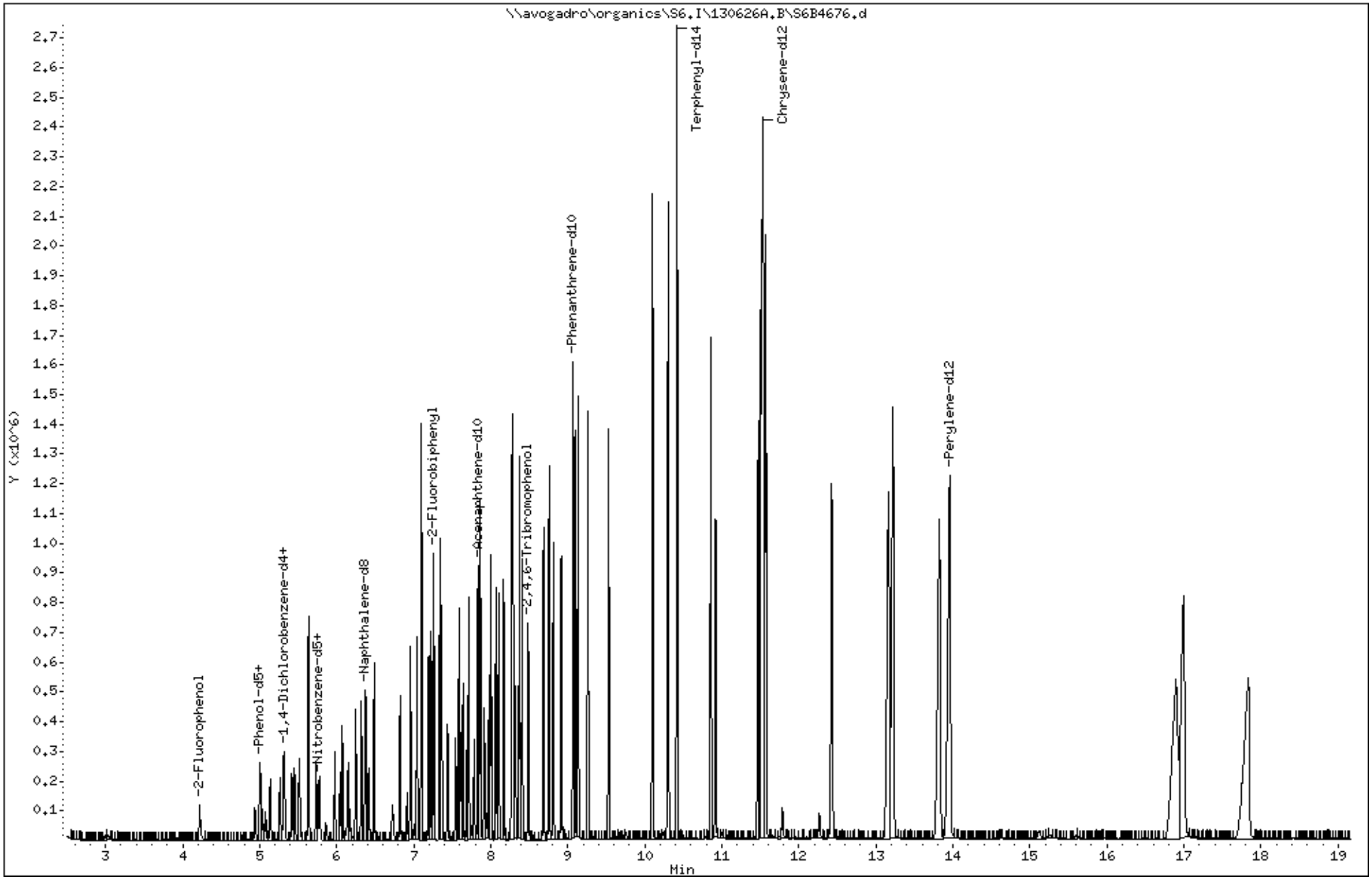
Data File: \\avogadro\organics\S6.I\130626A.B\S6B4676.d
Report Date: 27-Jun-2013 14:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
68	Di-n-butylphthalate	149	9.532	9.538	(1.051)	555917	41.9159	2800
69	Fluoranthene	202	10.102	10.114	(1.113)	839408	43.4294	2900
70	Benzidine	184	10.196	10.208	(0.884)	7002	1.86414	120(aQ)
71	Pyrene	202	10.302	10.314	(0.893)	870490	37.9152	2500
$ 72	Terphenyl-d14	244	10.419	10.431	(0.903)	743012	39.6856	2600
73	Butylbenzylphthalate	149	10.860	10.872	(0.941)	302762	36.3772	2400
74	3,3'-Dichlorobenzidine	252	11.471	11.483	(0.994)	365464	32.4515	2200
78	bis(2-Ethylhexyl)phthalate	149	11.495	11.512	(0.996)	474897	35.5351	2400
75	Benzo(a)anthracene	228	11.512	11.530	(0.998)	1106721	35.7904	2400
* 76	Chrysene-d12	240	11.536	11.548	(1.000)	1176157	40.0000	
77	Chrysene	228	11.571	11.583	(1.003)	1000089	39.2957	2600
79	Di-n-octylphthalate	149	12.423	12.447	(0.890)	792175	39.3434	2600
80	Benzo(b)fluoranthene	252	13.163	13.175	(0.943)	1200579	38.9009	2600
81	Benzo(k)fluoranthene	252	13.222	13.234	(0.947)	1221322	42.5955	2800
82	Benzo(a)pyrene	252	13.827	13.839	(0.991)	1141977	39.6430	2600
* 83	Perylene-d12	264	13.957	13.974	(1.000)	1195024	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	16.894	16.889	(1.210)	1457122	42.7579	2800
85	Dibenzo(a,h)anthracene	278	16.994	16.988	(1.218)	1138224	37.1740	2500
86	Benzo(g,h,i)perylene	276	17.829	17.817	(1.277)	1200597	38.9730	2600

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.
R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\S6.I\130626A.B\S6B4676.d
Date : 26-JUN-2013 20:59
Client ID: LCS-72397
Instrument: S6.i
Sample Info: LCS-72397,LCS-72397,72397
Volume Injected (uL): 1.0
Operator: PK SRC: LIMS
Column phase: Rxi-5Sil MS
Column diameter: 0.25



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

PREP BATCH REPORT

Prep Start Date: **06/24/2013 08:16**
Prep End Date: **06/24/2013 13:02** Prep Code: **BNA_S_PR** Prep Type: **SONC/SW3550B** Prep Factor Units: **mL / g**
Prep Batch ID: **72397** Technician: **Jodie B Warner**

QC Matrix: NA2SO4 Solvent (1): MECL2 Solvent (3): N/A Solvent (5): N/A Clean Up (1): N/A Clean Up (3): N/A
QC Matrix Lot: 121756 Solvent (1) Lot: DI 364 Solvent (3) Lot: N/A Solvent (5) Lot: N/A Clean Up (1) Lot: N/A Clean Up (1) Lot: N/A

Filter?: FILTER Solvent (2): ACE Solvent (4): N/A Solvent (6): N/A Clean Up (2): N/A Clean Up (4): N/A
Filter Lot: FC003203 Solvent (2) Lot: 125597 Solvent (4) Lot: N/A Solvent (6) Lot: N/A Clean Up (2) Lot: N/A Clean Up (4) Lot: N/A

Start Time: N/A Cycles/Hour 0 Sonicator Tuned?Yes Bath Temp1 (C): 87 Therm ID1: MT-88
End Time: N/A

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	CNCNTR Unit
MB-72397	BatchQC		15	1	OSW130521A	1			JBW	TM			06/24/13	JKD	R7		☐	☐	KD 1
LCS-72397	BatchQC		15	1	OSW130521A	1	OSW130531A	1	JBW	TM			06/24/13	JKD	R7		☐	☐	KD 1
M0984-13C	360109-E508	S	15.1	1	OSW130521A	1			JBW	TM	07/03/13	01	06/24/13	JKD	R7		☐	☐	KD 1
M0999-08A	SS-11	S	15	1	OSW130521A	1			JBW	TM	07/03/13	01	06/24/13	JKD	R7		☐	☐	KD 1
M0999-08AMS	SS-11	S	15.1	1	OSW130521A	1	OSW130531A	1	JBW	TM	07/03/13	01	06/24/13	JKD	R7		☐	☐	KD 1
M0999-08AMSD	SS-11	S	15.3	1	OSW130521A	1	OSW130531A	1	JBW	TM	07/03/13	01	06/24/13	JKD	R7		☐	☐	KD 1
M0999-09A	SS-11 DUP	S	15.1	1	OSW130521A	1			JBW	TM	07/03/13	01	06/24/13	JKD	R7		☐	☐	KD 1
M0975-04A	COMP-A-061313	S	15.1	1	OSW130521A	1			JBW	TM	06/26/13	01	06/24/13	JKD	R7		☐	☐	KD 1
M0975-07A	COMP-B-061313	S	15.4	1	OSW130521A	1			JBW	TM	06/26/13	01	06/24/13	JKD	R7		☐	☐	KD 1
M0975-11A	COMP-C-061313	S	15.2	1	OSW130521A	1			JBW	TM	06/26/13	01	06/24/13	JKD	R7		☐	☐	KD 1
M0975-14A	COMP-D-061313	S	15.2	1	OSW130521A	1			JBW	TM	06/26/13	01	06/24/13	JKD	R7		☐	☐	KD 1
M0975-18A	COMP-E-061313	S	15.2	1	OSW130521A	1			JBW	TM	06/26/13	01	06/24/13	JKD	R7		☐	☐	KD 1

James Kyle Dorsey 06/24/2013
Analyst Reviewed Date

Jodie B Warner 06/24/2013
Manager Reviewed Date

Comments:

JW 6/24/13

Logbook ID: 50.0147-05/13-2

Percent Moisture and Percent Solids Report

Lab Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
M0975-01A	A-1-3-061313	06/18/2013	20.881	79.119	Yes
M0975-02A	A-2-2-061313	06/18/2013	25.000	75.000	Yes
M0975-03A	A-3-1-061313	06/18/2013	18.921	81.079	Yes
M0975-04A	COMP-A-061313	06/18/2013	21.460	78.540	Yes
M0975-05A	B-1-4-061313	06/18/2013	18.650	81.350	Yes
M0975-06A	B-2-1-061313	06/18/2013	18.229	81.771	Yes
M0975-07A	COMP-B-061313	06/18/2013	20.671	79.329	Yes
M0975-08A	C-1-2-061313	06/18/2013	23.940	76.060	Yes
M0975-09A	C-2-3-061313	06/18/2013	25.535	74.465	Yes
M0975-10A	C-3-2-061313	06/18/2013	23.295	76.705	Yes
M0975-11A	COMP-C-061313	06/18/2013	17.278	82.722	Yes
M0975-12A	D-1-1-061313	06/18/2013	17.479	82.521	Yes
M0975-13A	D-3-4-061313	06/18/2013	19.204	80.796	Yes
M0975-14A	COMP-D-061313	06/18/2013	20.900	79.100	Yes
M0975-15A	E-1-3-061313	06/18/2013	15.889	84.111	Yes
M0975-16A	E-2-4-061313	06/18/2013	24.763	75.237	Yes
M0975-17A	E-3-2-061313	06/18/2013	23.279	76.721	Yes
M0975-18A	COMP-E-061313	06/18/2013	16.103	83.897	Yes

Logbook ID: 70.0195-04/13

Instrument S6
Injection Log

Spectrum Analytical, Inc. RI Div. SEMIVOLATILES LABORATORY

Spectrum Analytical, Inc. RI Division S6 Injection Log
Semivolatiles Laboratory

C1 - SL130417A
C2 B
C3 C
C4 D
C5 E
C6 F

METHOD: 8270
ICAL DATE: 6/21/13
ANALYST: MK
EMV: 1682

BATCH: 130621.B

Start: 21-JUN-13 14:16
End: 22-JUN-13 01:02

Internal Standard: SL130417A
Comments:

#10389 Tune - SL120802A

Inlet Maintenance By: MK
Liner : cleaned
Column : clipped
Inlet Seal: clean
Septum : New

Reviewed By: MKS 6/21/13

Manual Integration: NA

MI Review: N/A

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
S6B4570D	14:16	DFTPP6w	DFTPP6w		AQ	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*					
S6B4571A	15:17	SSTD0256W	SSTD0256W		AQ	100	100	100	100	100	100									1		dc
S6B4572	15:48	SSTD0056W	SSTD0056W		AQ	103	101	118	119	116	113									1		
S6B4573	16:13	SSTD0606W	SSTD0606W		AQ	116	126	121	123	125	120									1		
S6B4574	16:38	SSTD0106W	SSTD0106W		AQ	117	113	128	128	124	119									1		
S6B4575	17:03	SSTD0406W	SSTD0406W		AQ	124	127	134	131	130	123									1		
S6B4576	17:28	SSTD0806W	SSTD0806W		AQ	144	164	144	142	146	134									1		
S6B4577	17:53	SICV0256W	SICV0256W		AQ	91	93	96	97	94	92	56	58	57	54	52	58			1		
S6B4578	18:19	MB-72194	MB-72194	72194	SL	86	77	83	89	89	85	92	90	108	87	80	45			1	R	
S6B4579	18:44	MB-72074	MB-72074	72074	AQ	74	73	89	95	91	94	85	79	102	76	75	84			1		
S6B4580	19:10	LCS-72074	LCS-72074	72074	AQ	87	79	93	94	94	97	104	94	109	88	84	101			1	R	
S6B4581	19:35	LCSD-72074	LCSD-72074	72074	AQ	95	89	98	99	94	94	92	90	106	80	78	97			1	R	
S6B4582	20:00	M0877-03B	OU6-053113FB	72074	AQ	77	77	91	94	88	90	101	85	114	21	34	103			1		
S6B4583	20:25	M0877-05C	OU6-060313FB	72074	AQ	76	75	90	94	90	92	96	82	109	22	35	100			1		dc
S6B4584	20:50	M0877-07B	1754 MW-3	72074	AQ	77	76	90	93	93	97	94	85	107	24	42	95			1	E	DLx4
S6B4585	21:16	M0877-09B	SS32-MW2D	72074	AQ	89	84	96	98	95	96	98	81	110	20	35	94			1		dc
S6B4586	21:41	M0877-11C	SS33-MW01D	72074	AQ	91	85	96	100	93	96	96	85	116	22	37	100			1		
S6B4587	22:06	M0877-13C	SS33-MW01I	72074	AQ	89	87	99	105	96	97	101	92	117	26	45	104			1		
S6B4588	22:31	M0877-15C	SS33-MW03D	72074	AQ	79	76	89	95	90	92	97	84	114	24	42	100			1		
S6B4589	22:56	M0877-17C	SS33-MW03S	72074	AQ	64	66	80	88	86	91	85	69	104	36	35	98			1		
S6B4590	23:21	M0879-02B	OU7-060313FB	72074	AQ	74	73	85	89	86	88	103	90	118	23	42	106			1		
S6B4591	23:46	M0879-04B	OU7-MW146D	72074	AQ	65	66	80	85	83	85	103	92	116	24	32	108			1		
S6B4592	00:11	M0879-06B	OU7-MW146I	72074	AQ	84	81	94	99	93	95	99	89	117	32	34	98			1		
S6B4593	00:37	M0879-08B	OU7-MW141I	72074	AQ	84	82	93	99	92	94	101	93	114	24	36	99			1		
S6B4594	01:02	M0879-10B	OU7-MW141D	72074	AQ	95	91	102	104	97	98	95	89	114	23	39	100			1		dc

* 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

MK 6/24/13

M0975

Logbook ID: 70.0195-04/13

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: 6/21/13

ANALYST: MR
EMV: 1682

BATCH: 130625.B

Start: 25-JUN-13 15:12
End: 26-JUN-13 00:09

Internal Standard: SI130417A
Comments:

#10389

Tune-JD120820A
CS-JV130408C

Inlet Maintenance By: MR
Liner : Clean MR
Column : Clipped
Inlet Seal: Clean
Septum : New

Reviewed By: _____ Manual Integration: _____ MI Review: _____

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
S6B4630C	15:12	DFTPP6Y	DFTPP6Y		AQ																	
S6B4631D	15:53	SSTD0256Y	SSTD0256Y		AQ	100	100	100	100	100	100									1		ar
S6B4632	16:34	MB-72395	MB-72395	72395	AQ	80	72	86	93	94	99	88	84	106	72	76	93			1		
S6B4633	17:00	LCS-72395	LCS-72395	72395	AQ	97	85	97	97	98	99	88	81	98	83	69	99			1	ER	
S6B4634	17:25	LCSD-72395	LCSD-72395	72395	AQ	110	95	108	109	108	106	91	81	96	79	73	95			1	ER	ar
S6B4635	17:51	MB-72397	MB-72397	72397	SL	99	88	106	114	118	122	88	83	99	104*	116*	88			1		RR
S6B4636	18:16	LCS-72397	LCS-72397	72397	SL	113	103	116	121	119	121	89	83	96	102*	109*	99			1	ER	RR MI_79_80_82_84_85_86
S6B4637	18:41	M0975-04A	COMP-A-061313	72397	SL	96	81	97	105	108	113	69	61	77	76	80	73			1		ar
S6B4638	19:06	M0975-07A	COMP-B-061313	72397	SL	92	81	103	115	121	122	71	62	79	85	94	79			1		
S6B4639	19:32	M0975-11A	COMP-C-061313	72397	SL	100	85	102	111	112	118	74	68	81	80	92	76			1		
S6B4640	19:57	M0975-14A	COMP-D-061313	72397	SL	99	86	108	114	118	121	76	65	83	80	88	81			1		
S6B4641	20:22	M0975-18A	COMP-E-061313	72397	SL	98	86	99	105	110	113	67	61	75	74	81	74			1		
S6B4642	20:47	M0984-13C	360109-E508	72397	SL	89	87	140	131	107	117	66	54	81	63	73	60			1		
S6B4643	21:12	M1021-01B	EFFLUENT 16	72395	AQ	71	65	82	88	94	99	86	82	102	13	18*	64			1		
S6B4644	21:38	M1027-01B	DIR. DISCHARGE	72395	AQ	95	82	98	101	104	110	72	73	92	16	24	94			1		
S6B4645	22:03	M1028-01B	062113-CARBONTA	72395	AQ	100	87	105	115	124	131	77	74	108	14	17*	72			1		RR ccv forbid
S6B4646	22:28	M0999-07F	FIELD BLANK	72395	AQ	73	68	86	92	98	104	77	75	112	19	28	100			1		
S6B4647	22:54	M0999-08A	SS-11	72397	SL	73	66	80	88	104	121	56	57	67	66	77	76			1		MI_75_80
S6B4648	23:19	M0999-08AMS	SS-11MS	72397	SL	110	94	112	117	131	141	68	63	73	71	78	77			1	ER	
S6B4649	23:44	M0999-08AMSD	SS-11MSD	72397	SL	119	102	120	127	141	151	64	61	70	70	75	73			1	ER	Several MI
S6B4650	00:09	M0999-09A	SS-11 DUP	72397	SL	133	113	130	135	147	160	58	58	70	64	71	71			1		ar MI_75

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

MR 6/26/13

M0975

Logbook ID: 70.0195-04/13

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: 6/26/13

ANALYST: MK
EMV: 2432

BATCH: 130626.B

Start: 26-JUN-13 11:25
End: 26-JUN-13 15:11

L1 L2 L3 L4 L5 L6 — SV130408A — B C D E F

Internal Standard: CC130417A

Comments: #10422 Tune—SV120820A

Inlet Maintenance By: MK
Liner : Clean
Column : Clipped
Inlet Seal: Clean
Septum : New

Reviewed By: MK 6/27/13

Manual Integration: NA

MI Review: N/A

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
S6B4660F	11:25	DFTPP6Z	DFTPP6Z		AQ															1		ok
S6B4661	11:45	SSTD0256Z	SSTD0256Z		AQ	100	100	100	100	100	100									1		
S6B4662	13:00	SSTD0806Z	SSTD0806Z		AQ	122	139	125	126	143	135									1		
S6B4663	13:25	SSTD0056Z	SSTD0056Z		AQ	92	88	108	110	116	118									1		
S6B4664	13:51	SSTD0606Z	SSTD0606Z		AQ	123	135	129	125	135	133									1		
S6B4665	14:17	SSTD0106Z	SSTD0106Z		AQ	119	118	133	131	136	138									1		
S6B4666	14:43	SSTD0406Z	SSTD0406Z		AQ	105	104	110	110	120	122									1		
S6B4667	15:11	SICV0256Z	SICV0256Z		AQ	52	56	58	60	66	70	55	60	57	59	57	56			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

MK 6/27/13

Page 326 of 806

M0975

Logbook ID: 70.0195-04/13

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: 6/26/13

ANALYST: MC
EMV: 2632

BATCH: 130626A.B

Start: 26-JUN-13 17:40
End: 27-JUN-13 08:02

Internal Standard: SI130417A
Comments:

#10422

Tune - SI130724
LB - SU130408C

Inlet Maintenance By: MC
Liner : MA
Column :
Inlet Seal:
Septum :

Reviewed By: MS 6/27/13 Manual Integration: NA MI Review: N/A

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
S6B4670I	17:40	DFTPP6A	DFTPP6A		AQ															1		OK
S6B4671A	18:26	SSTD0256A	SSTD0256A		AQ	100	100	100	100	100	100									1		
S6B4672	19:17	MB-72395	MB-72395	72395	AQ	75	71	85	87	82	84	94	89	106	74	74	80			1		
S6B4673	19:43	LCS-72395	LCS-72395	72395	AQ	88	80	87	84	82	80	95	88	98	83	74	81			1	R	
S6B4674	20:08	LCSD-72395	LCSD-72395	72395	AQ	95	83	92	91	89	84	89	86	95	77	70	76			1	R	OK
S6B4675	20:34	MB-72397	MB-72397	72397	SL	30*	27*	35*	42*	56	64	91	78	80	103*	88	55			1		RR
S6B4676	20:59	LCS-72397	LCS-72397	72397	SL	59	55	64	70	78	81	83	77	79	94	97	71			1	ER	OK
S6B4677	21:25	MB-72256	MB-72256	72256	SL	73	68	80	87	90	89	93	88	106	104*	88	28*			1		OK
S6B4678	21:50	LCS-72256	LCS-72256	72256	SL	105	98	108	103	100	93	96	91	107	104*	101	87			1	R	OK
S6B4679	22:16	LCSD-72256	LCSD-72256	72256	SL	107	93	104	103	99	92	98	94	106	102*	106*	83			1		RR
S6B4680	22:42	MB-72227	MB-72227	72227	AQ	65	60	74	76	77	80	95	83	101	79	76	80			1		OK
S6B4681	23:07	LCS-72227	LCS-72227	72227	AQ	44*	40*	46*	48*	53	56	98	86	92	88	70	83			1	R	RR
S6B4682	23:33	LCSD-72227	LCSD-72227	72227	AQ	58	54	61	62	63	64	100	88	96	90	77	83			1	R	OK
S6B4683	23:58	M1028-01B	062113-CARBONTA	72395	AQ	83	75	88	92	89	87	80	77	114	14	16*	56			1		OK
S6B4684	00:24	M0898-14C	ST22-MW-4I	72142	AQ	107	102	123	126	116	116	95	82	112	22	33	82			1		OK
S6B4685	00:50	M0938-02C	OU6-061113FB	72227	AQ	43*	40*	47*	50	57	63	97	82	102	22	33	84			1		RR
S6B4686	01:15	M0938-04C	HYDRANT-MW03	72227	AQ	98	89	100	102	97	96	78	77	102	14	20	59			1		OK
S6B4687	01:41	M0969-01A	S3-WC1	72256	SL	77	72	82	85	89	91	61	59	67	75	75	56			1		
S6B4688	02:07	M0969-02A	S3-WC2	72256	SL	78	70	80	84	88	91	63	61	71	69	80	59			1		
S6B4689	02:33	M0899-01D	ST22-MW-2S	72180	AQ	60	53	56	58	65	74	94	85	99	20	32	88			1		OK
S6B4690	02:59	M0899-02D	ST22-MW-2I	72180	AQ	52	45*	50	54	60	70	95	79	93	22	32	85			1		RR
S6B4691	03:24	M0899-03D	SS32-MW-1D	72180	AQ	78	76	87	89	87	90	80	70	102	20	29	82			1		OK
S6B4692	03:50	M0899-04D	OU6-060613FB	72180	AQ	44*	39*	44*	48*	57	67	93	79	96	19	24	75			1		RK
S6B4693	04:15	M0899-05D	ST22-MW-3S	72180	AQ	72	64	72	76	78	84	95	80	95	23	34	79			1		OK
S6B4694	04:40	M0899-06D	ST22-MW-3I	72180	AQ	79	72	82	85	84	88	103	91	110	27	39	86			1		
S6B4695	05:06	M0899-07D	ST22-MW-1I	72180	AQ	74	69	81	85	83	88	97	82	107	26	38	81			1		
S6B4696	05:31	M0899-08D	ST22-MW-1S	72180	AQ	71	61	69	69	74	81	98	84	100	22	35	85			1		
S6B4697	05:56	M0899-18B	OU6-060613FD	72180	AQ	70	68	79	84	83	87	91	77	100	22	35	76			1	T	
S6B4698	06:21	4273MB	4273MB	263	AQ	70	61	73	75	76	80	94	85	101	81	73	90			1	T	
S6B4699	06:46	4274LCS	4274LCS	263	AQ	83	76	83	83	82	83	92	88	97	86	73	77			1	RT	OK
S6B4700	07:12	4275LCSD	4275LCSD	263	AQ	48*	44*	54	57	64	69	100	82	91	88	81	79			1	RT	RK
S6B4701	07:37	501028301	WETWELL	263	AQ	96	88	95	93	89	94	0	0	0	0	0	0			40	T	OK
S6B4702	08:02	501028501	WETWELL	263	AQ	105	93	97	96	91	97	0	0	0	0	0	0			40	E T	DL×2

MC 6/27/13

47

Logbook ID: 70.0195-04/13

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: 6/27/13

ANALYST: PM
EMV: 2243

BATCH: 130627.B

Start: 27-JUN-13 11:51
End: 27-JUN-13 16:36

L1 – SJ130408A
L2 B
L3 C
L4 D
L5 E
L6 F

Internal Standard: SJ130417A
Comments:

#10430

Tune – SJ130820A

Inlet Maintenance By: PM
Liner : clean
Column : clipped
Inlet Seal: clean
Septum : New

Reviewed By: MMS 6/28/13

Manual Integration: MA

MI Review: N/A

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
S6B4710I	11:51	DFTPP6B	DFTPP6B		AQ																	
S6B4711B	14:04	SSTD0256B	SSTD0256B		AQ	100	100	100	100	100	100									1		OK
S6B4712	14:29	SSTD0806B	SSTD0806B		AQ	188	218*	185	182	201*	193									1		
S6B4713	14:55	SSTD0056B	SSTD0056B		AQ	199	184	187	177	168	153									1		
S6B4714	15:20	SSTD0606B	SSTD0606B		AQ	241*	264*	230*	211*	209*	194									1		
S6B4715	15:45	SSTD0106B	SSTD0106B		AQ	323*	300*	290*	276*	249*	222*									1		
S6B4716	16:11	SSTD0406B	SSTD0406B		AQ	486*	501*	442*	407*	358*	304*									1		
S6B4717	16:36	SICV0256B	SICV0256B		AQ	142	133	125	123	121	114	63	58	57	53	53	54			1	R	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

PM 6/29/13

M0955

Spectrum Analytical, Inc. RI Division S6 Injection Log METHOD: 8270 ANALYST: PM BATCH: 130628.B Start: 28-JUN-13 09:58
Semivolatiles Laboratory ICAL DATE: 6/27/13 EMV: 2243 End: 28-JUN-13 14:55

Internal Standard: SI130417A #10430 Tune-SC120820A
Comments: CB-SW130408C

Inlet Maintenance By: PM
Liner : NA
Column :
Inlet Seal:
Septum :

Reviewed By: WMS 6/28/13 Manual Integration: NA MI Review: NA

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
S6B4740D	09:58	DFTPP6C	DFTPP6C		AQ															1		ok
S6B4741	10:20	SSTD0256C	SSTD0256C		AQ	100	100	100	100	100	100									1		
S6B4742C	12:21	MB-72256	MB-72256	72256	SL	116	114	121	124	134	139	87	86	100	77	68	32*			1		
S6B4743	12:46	LCSD-72256	LCSD-72256	72256	SL	87	79	87	89	97	101	90	86	98	83	86	92			1		
S6B4744	13:12	MB-72397	MB-72397	72397	SL	81	79	89	96	108	116	86	84	90	82	72	52			1		
S6B4745	13:38	LCS-72227	LCS-72227	72227	AQ	170	160	175	178	180	175	96	94	105	84	83	96			1		
S6B4746	14:04	M1037-01A	WC-PAH-3-1	72442	AQ	92	86	94	94	100	110	91	88	104	46	59	104			1		
S6B4747	14:29	M1050-01A	SOIL PILE	72504	AQ	66	65	64	68	79	94	95	100	115	53	62	113			1		
S6B4748	14:55	M0938-02C	OU6-061113FB	72227	AQ	118	107	125	125	132	135	100	86	114	19	32	100			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

PM 6/28/13

* Pesticide Organics *

REPORT NARRATIVE

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

Client : GZA GeoEnvironmental of NY Buffalo

Project: Former Signore Facility

Laboratory Workorder / SDG #: M0975

SW846 8081B, Organochlorine Pesticides by GC-ECD

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 8081B

IV. PREPARATION

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

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest 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.

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

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

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. 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

The following samples were manually integrated:

TOXAPH3J5 Toxaphene on front column due to M3

TOXAPH4J5 Decachlorobiphenyl on front column , Toxaphene on front column due to M3

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:_____6/27/2013_____

Data Flag/Qualifiers:

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 an 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 aldol condensation byproducts.

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.

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

2P - FORM II PEST-2

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	MB-72288	89		100		96		90				0
02	LCS-72288	91		99		97		93				0
03	LCSD-72288	90		100		98		92				0
04	COMP-A-061313	65		74		73		72				0
05	COMP-B-061313	60		68		68		67				0
06	COMP-C-061313	71		81		78		77				0
07	COMP-D-061313	71		82		78		78				0
08	COMP-E-061313	70		78		75		75				0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(14-113)
DCB = Decachlorobiphenyl	(55-130)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

som13.06.03.A

3M - FORM III PEST-3
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72288 LCS Lot No.: A085100

Date Extracted: 06/18/2013 Date Analyzed (1): 06/20/2013

Instrument ID (1): E5 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
alpha-BHC	6.6670	5.8351	88	60-125
beta-BHC	6.6670	6.0913	91	60-125
delta-BHC	6.6670	6.1319	92	55-130
gamma-BHC (Lindane)	6.6670	5.8218	87	60-125
Heptachlor	6.6670	5.9513	89	50-140
Aldrin	6.6670	5.8360	88	45-140
Heptachlor epoxide	6.6670	6.0323	90	65-130
Endosulfan I	6.6670	5.8659	88	15-135
Dieldrin	13.3330	12.5823	94	65-125
4,4´-DDE	13.3330	13.2393	99	70-125
Endrin	13.3330	13.0599	98	60-135
Endosulfan II	13.3330	12.0559	90	35-140
4,4´-DDD	13.3330	12.3437	93	30-135
Endosulfan sulfate	13.3330	13.3751	100	60-135
4,4´-DDT	13.3330	13.3533	100	45-140
Methoxychlor	66.6670	67.0396	101	55-145
Endrin ketone	13.3330	12.7139	95	65-135
Endrin aldehyde	13.3330	12.8654	96	35-145
alpha-Chlordane	6.6670	5.9377	89	65-120
gamma-Chlordane	6.6670	5.9286	89	65-125

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 06/20/2013

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
alpha-BHC	6.6670	6.1594	92	60-125
beta-BHC	6.6670	5.3722	81	60-125
delta-BHC	6.6670	6.4698	97	55-130
gamma-BHC (Lindane)	6.6670	6.0919	91	60-125

COMMENTS:

som13.06.03.A

3M - FORM III PEST-3
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72288 LCS Lot No.: A085100

Date Extracted: 06/18/2013 Date Analyzed (1): 06/20/2013

Heptachlor	6.6670	6.2045	93	50-140
Aldrin	6.6670	6.0443	91	45-140
Heptachlor epoxide	6.6670	6.1304	92	65-130
Endosulfan I	6.6670	5.9948	90	15-135
Dieldrin	13.3330	12.5358	94	65-125
4,4´-DDE	13.3330	12.3762	93	70-125
Endrin	13.3330	13.8515	104	60-135
Endosulfan II	13.3330	12.3582	93	35-140
4,4´-DDD	13.3330	13.1891	99	30-135
Endosulfan sulfate	13.3330	12.6096	95	60-135
4,4´-DDT	13.3330	13.0640	98	45-140
Methoxychlor	66.6670	66.3383	100	55-145
Endrin ketone	13.3330	12.4403	93	65-135
Endrin aldehyde	13.3330	12.8564	96	35-145
alpha-Chlordane	6.6670	6.0844	91	65-120
gamma-Chlordane	6.6670	6.2195	93	65-125

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 40 outside limits.

COMMENTS:

som13.06.03.A

3M - FORM III PEST-3
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCSD-72288 LCS Lot No.: A085100

Date Extracted: 06/18/2013 Date Analyzed (1): 06/20/2013

Instrument ID (1): E5 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
alpha-BHC	6.6670	5.9401	89	60-125	1.0	30
beta-BHC	6.6670	6.2398	94	60-125	3.0	30
delta-BHC	6.6670	6.2457	94	55-130	2.0	30
gamma-BHC (Lindane)	6.6670	5.8879	88	60-125	1.0	30
Heptachlor	6.6670	6.0649	91	50-140	2.0	30
Aldrin	6.6670	5.9111	89	45-140	1.0	30
Heptachlor epoxide	6.6670	6.0347	91	65-130	1.0	30
Endosulfan I	6.6670	5.9210	89	15-135	1.0	30
Dieldrin	13.3330	12.3548	93	65-125	1.0	30
4,4´-DDE	13.3330	13.3969	100	70-125	1.0	30
Endrin	13.3330	13.1826	99	60-135	1.0	30
Endosulfan II	13.3330	12.3481	93	35-140	3.0	30
4,4´-DDD	13.3330	12.5897	94	30-135	1.0	30
Endosulfan sulfate	13.3330	13.4131	101	60-135	1.0	30
4,4´-DDT	13.3330	13.3702	100	45-140	0	30
Methoxychlor	66.6670	67.3489	101	55-145	0	30
Endrin ketone	13.3330	12.7439	96	65-135	1.0	30
Endrin aldehyde	13.3330	12.9602	97	35-145	1.0	30
alpha-Chlordane	6.6670	5.9878	90	65-120	1.0	30
gamma-Chlordane	6.6670	6.0184	90	65-125	1.0	30

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 06/20/2013

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
alpha-BHC	6.6670	6.1233	92	60-125	0	30
beta-BHC	6.6670	5.2888	79	60-125	3.0	30
delta-BHC	6.6670	6.3681	96	55-130	1.0	30
gamma-BHC (Lindane)	6.6670	6.0819	91	60-125	0	30

COMMENTS:

som13.06.03.A

3M - FORM III PEST-3
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCSD-72288 LCS Lot No.: A085100

Date Extracted: 06/18/2013 Date Analyzed (1): 06/20/2013

Heptachlor	6.6670	6.1925	93	50-140	0	30
Aldrin	6.6670	6.0661	91	45-140	0	30
Heptachlor epoxide	6.6670	6.1702	93	65-130	1.0	30
Endosulfan I	6.6670	6.1171	92	15-135	2.0	30
Dieldrin	13.3330	12.6502	95	65-125	1.0	30
4,4´-DDE	13.3330	12.4451	93	70-125	0	30
Endrin	13.3330	14.0566	105	60-135	1.0	30
Endosulfan II	13.3330	12.1374	91	35-140	2.0	30
4,4´-DDD	13.3330	12.9832	97	30-135	2.0	30
Endosulfan sulfate	13.3330	12.6064	95	60-135	0	30
4,4´-DDT	13.3330	13.1319	98	45-140	0	30
Methoxychlor	66.6670	66.0104	99	55-145	1.0	30
Endrin ketone	13.3330	12.5832	94	65-135	1.0	30
Endrin aldehyde	13.3330	12.7925	96	35-145	0	30
alpha-Chlordane	6.6670	6.0589	91	65-120	0	30
gamma-Chlordane	6.6670	6.2717	94	65-125	1.0	30

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 40 outside limits.

RPD: 0 out of 40 outside limits.

COMMENTS:

som13.06.03.A

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: E5J7636F.D / E5J7636R.D Lab Sample ID: MB-72288

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/18/2013

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Date Analyzed (1): 06/20/2013 Date Analyzed (2): 06/20/2013

Time Analyzed (1): 14:36 Time Analyzed (2): 14:36

Instrument ID (1): E5 Instrument ID (2): E5

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-72288	LCS-72288	06/20/2013	06/20/2013
02	LCSD-72288	LCSD-72288	06/20/2013	06/20/2013
03	COMP-A-061313	M0975-04A	06/20/2013	06/20/2013
04	COMP-B-061313	M0975-07A	06/20/2013	06/20/2013
05	COMP-C-061313	M0975-11A	06/20/2013	06/20/2013
06	COMP-D-061313	M0975-14A	06/20/2013	06/20/2013
07	COMP-E-061313	M0975-18A	06/20/2013	06/20/2013

COMMENTS:

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-A-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-04A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E5J7641F.D/E5J7641R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4´-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4´-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4´-DDT	4.2	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7641F.D
Report Date: 25-Jun-2013 10:19

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

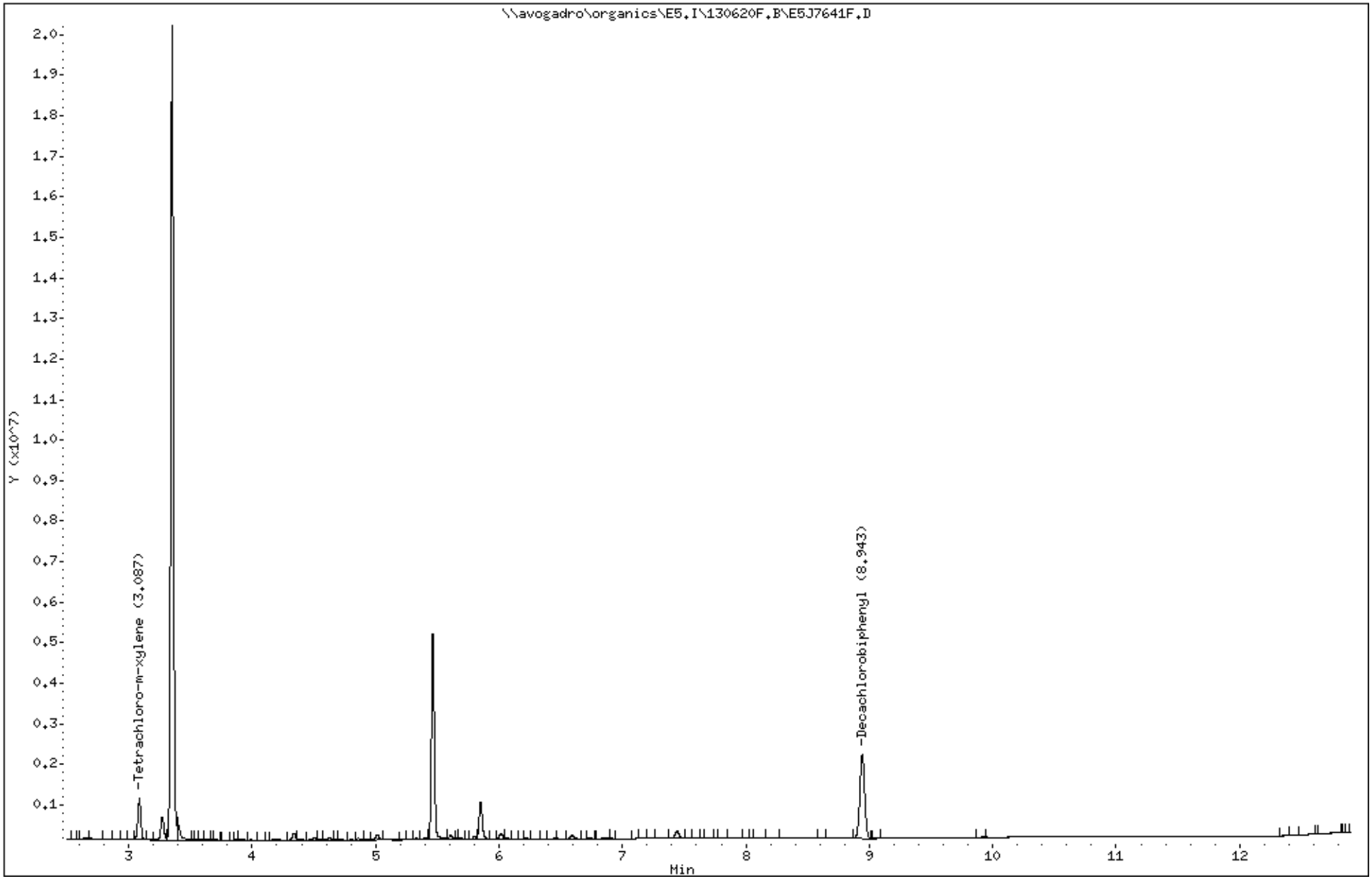
Data file : \\avogadro\organics\E5.I\130620F.B\E5J7641F.D
Lab Smp Id: M0975-04A Client Smp ID: COMP-A-061313
Inj Date : 20-JUN-2013 16:06
Operator : GMA   SRC: LIMS Inst ID: E5.i
Smp Info : M0975-04A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.300	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.086	3.085	0.001	1756150	0.03895		13	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
8.943	8.944	-0.001	5633283	0.08762		29	

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7641F.D
Date : 20-JUN-2013 16:06
Client ID: COMP-A-061313
Instrument: E5.i
Sample Info: M0975-04A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130620R.B\E5J7641R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

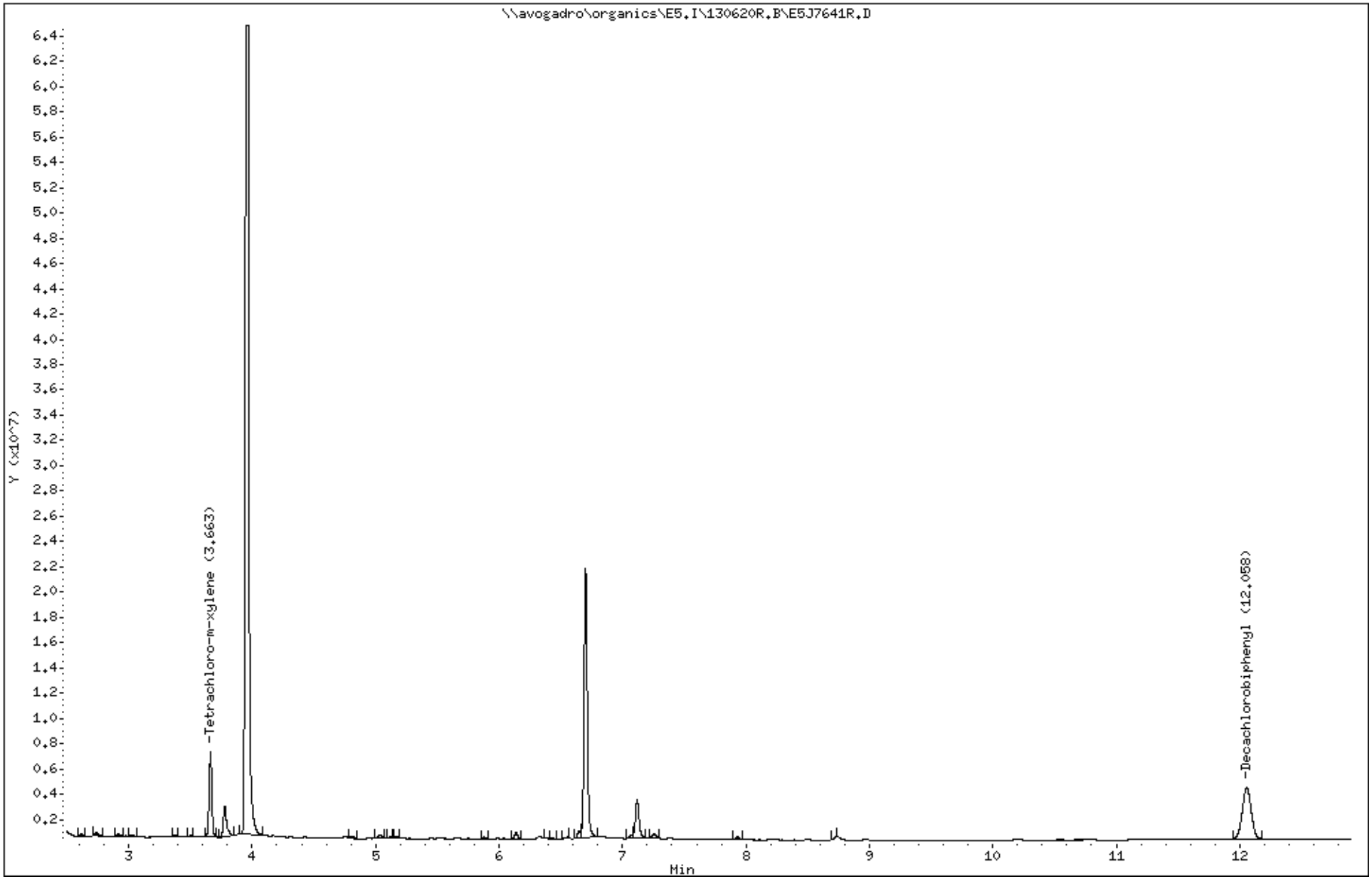
Data file : \\avogadro\organics\E5.I\130620R.B\E5J7641R.D
Lab Smp Id: M0967-04A
Inj Date : 20-JUN-2013 16:06
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : M0967-04A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.662	3.661	0.001	6720912	0.04456	0.44		
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
12.057	12.065	-0.008	20398719	0.08584	0.86		

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7641R.D
Date : 20-JUN-2013 16:06
Client ID:
Instrument: E5.i
Sample Info: M0967-04A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-B-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-07A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E5J7642F.D/E5J7642R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4´-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4´-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4´-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7642F.D
Report Date: 25-Jun-2013 10:19

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

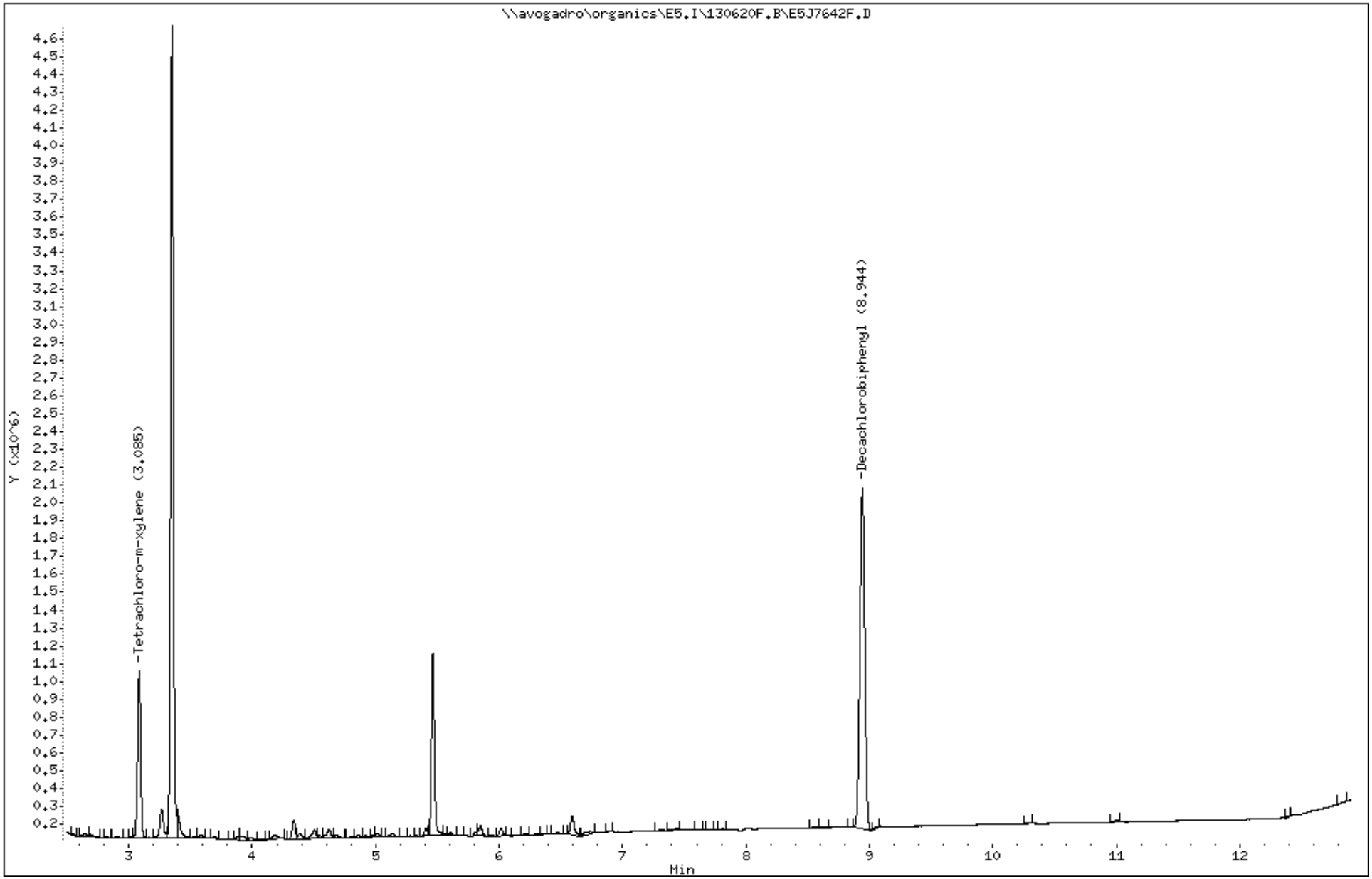
Data file : \\avogadro\organics\E5.I\130620F.B\E5J7642F.D
Lab Smp Id: M0975-07A Client Smp ID: COMP-B-061313
Inj Date : 20-JUN-2013 16:23
Operator : GMA   SRC: LIMS Inst ID: E5.i
Smp Info : M0975-07A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.085	3.085	0.000	1627761	0.03610		12	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
8.944	8.944	0.000	5258313	0.08179		27	

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7642F.D
Date : 20-JUN-2013 16:23
Client ID: COMP-B-061313
Instrument: E5.i
Sample Info: M0975-07A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130620R.B\E5J7642R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

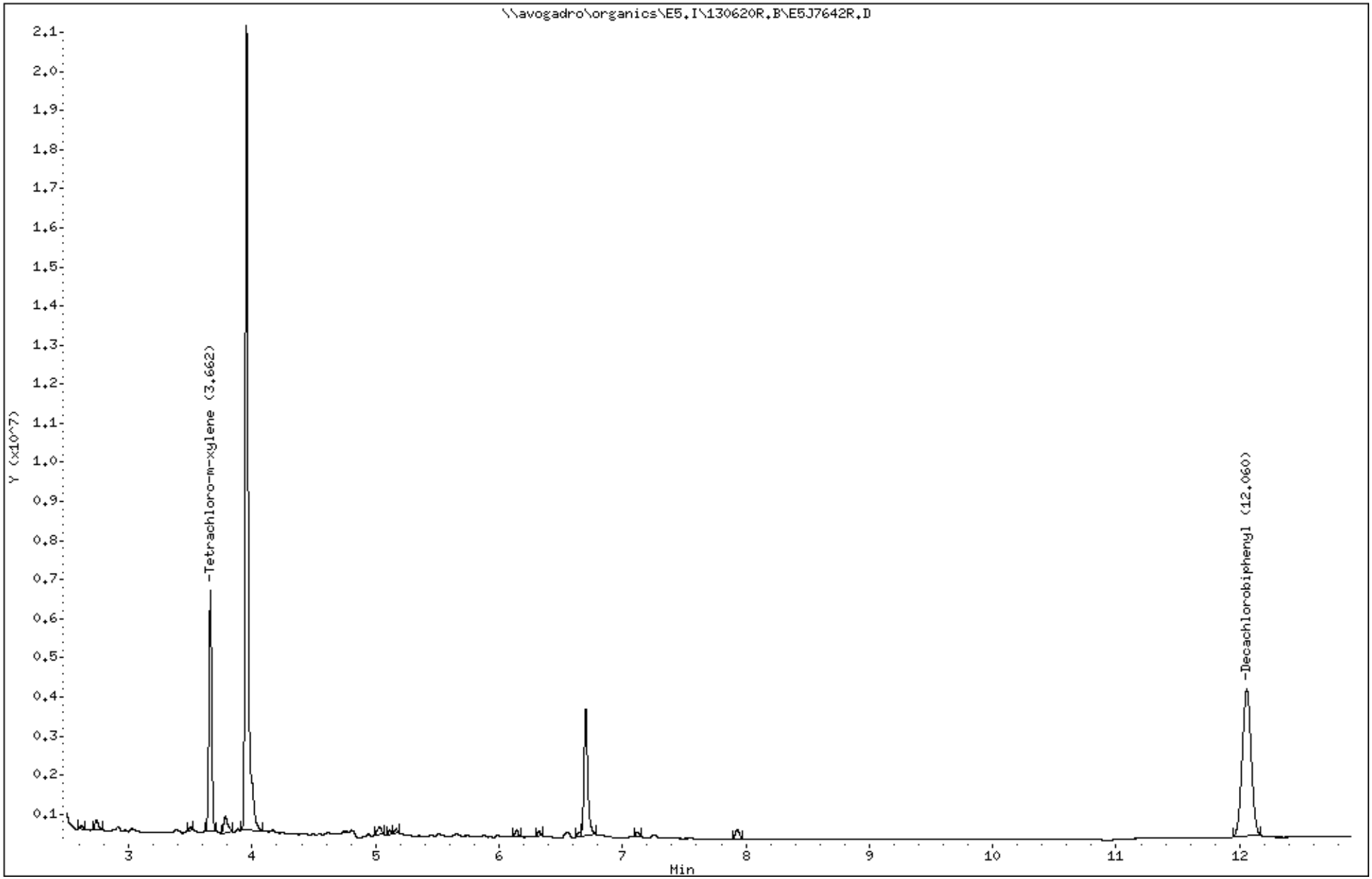
Data file : \\avogadro\organics\E5.I\130620R.B\E5J7642R.D
Lab Smp Id: M0975-07A Client Smp ID: COMP-B-061313
Inj Date : 20-JUN-2013 16:23
Operator : GMA   SRC: LIMS Inst ID: E5.i
Smp Info : M0975-07A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.661	3.661	0.000	6175838	0.04095		14	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
12.060	12.065	-0.005	18971147	0.07983		26	

Data File: \\avogadro\organics\E5.i\130620R.B\E5J7642R.D
Date : 20-JUN-2013 16:23
Client ID: COMP-B-061313 Instrument: E5.i
Sample Info: M0975-07A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0 Operator: GMA SRC: LIMS
Column phase: CLPPestII Column diameter: 0.53



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-C-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-11A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E5J7643F.D/E5J7643R.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4´-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4´-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4´-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7643F.D
Report Date: 25-Jun-2013 10:20

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

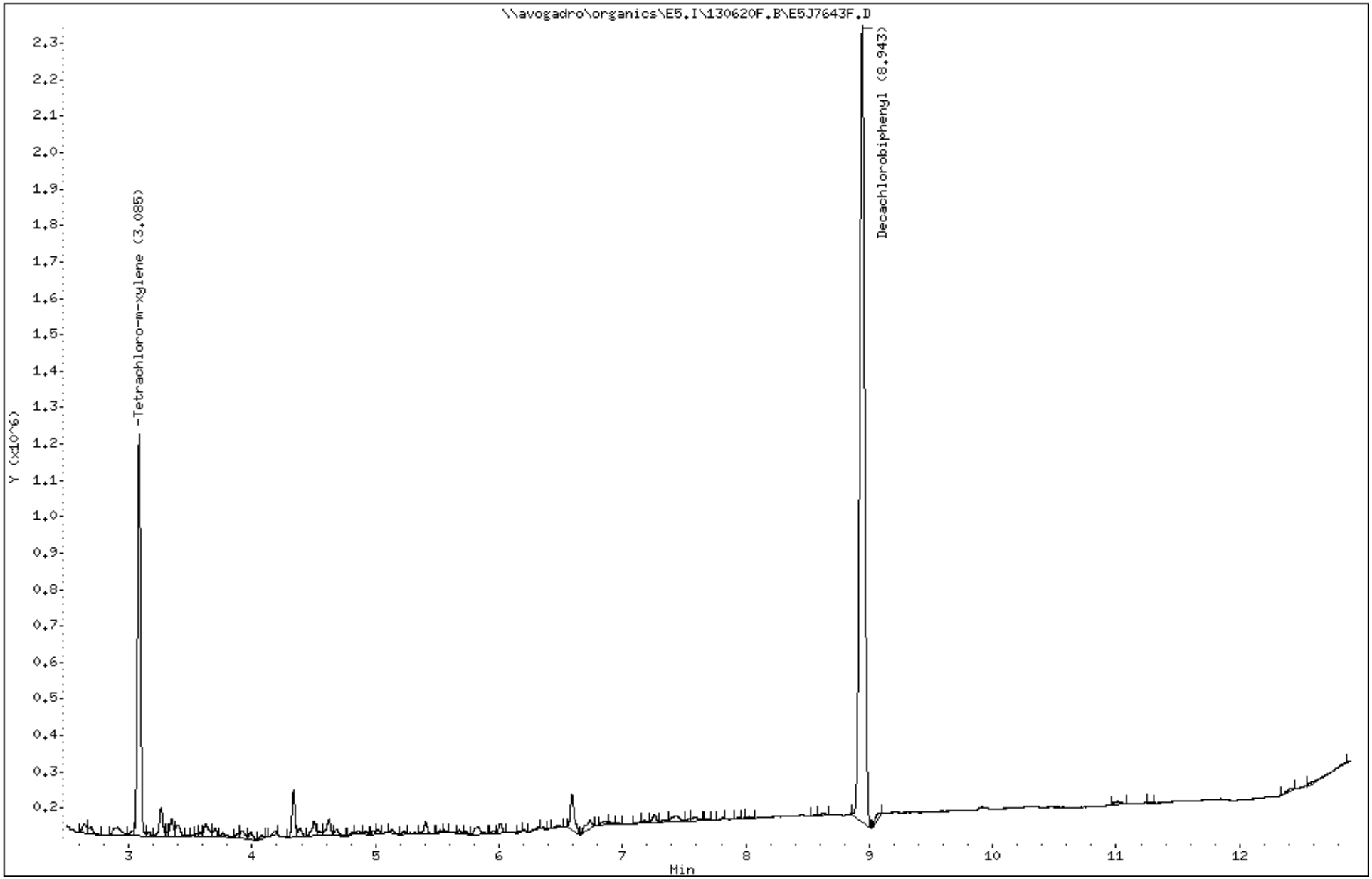
Data file : \\avogadro\organics\E5.I\130620F.B\E5J7643F.D
Lab Smp Id: M0975-11A Client Smp ID: COMP-C-061313
Inj Date : 20-JUN-2013 16:41
Operator : GMA   SRC: LIMS Inst ID: E5.i
Smp Info : M0975-11A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.084	3.085	-0.001	1914967	0.04247		14	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
8.943	8.944	-0.001	5986739	0.09312		31	

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7643F.D
Date : 20-JUN-2013 16:41
Client ID: COMP-C-061313
Instrument: E5.i
Sample Info: M0975-11A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130620R.B\E5J7643R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

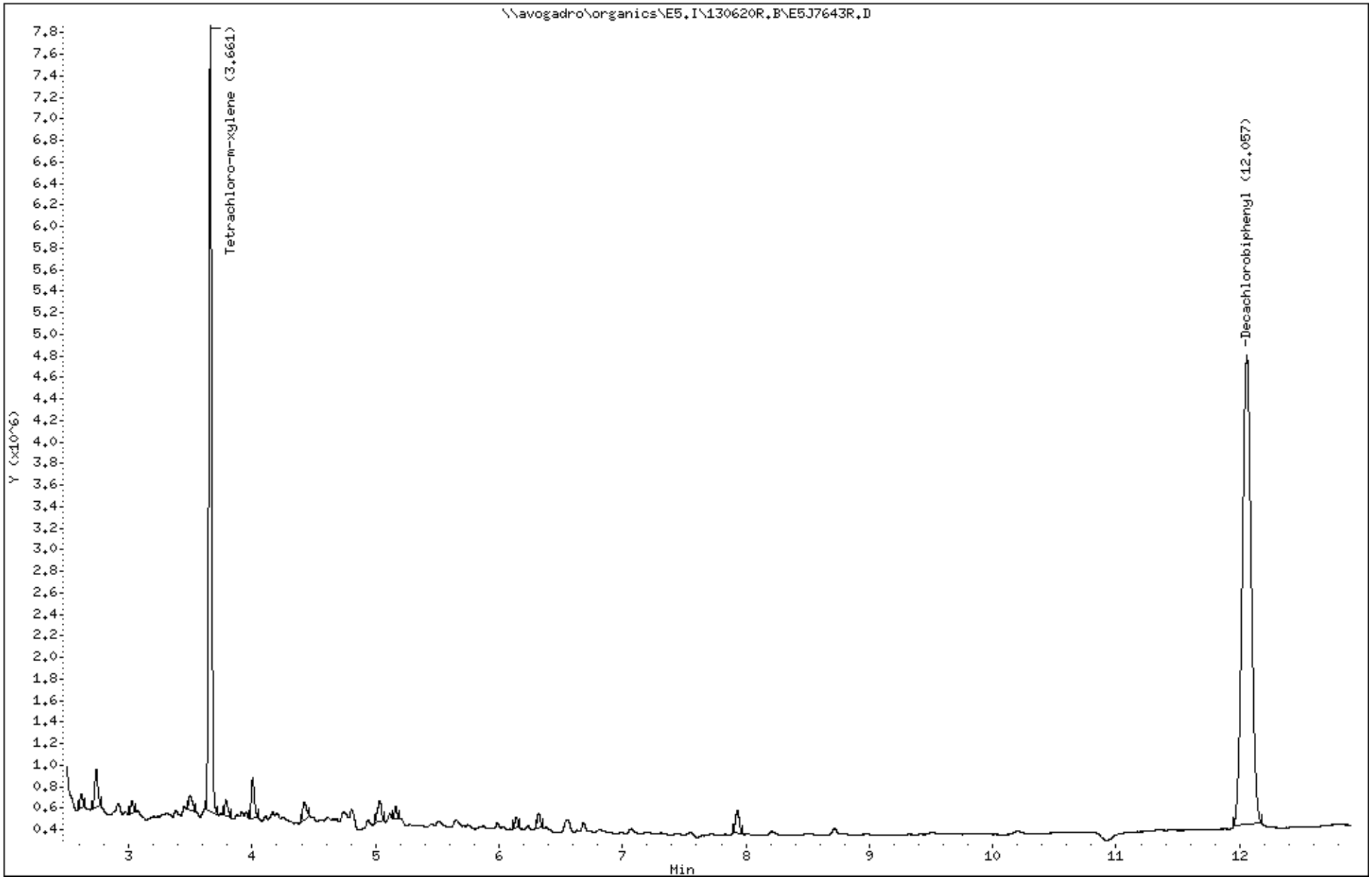
Data file : \\avogadro\organics\E5.I\130620R.B\E5J7643R.D
Lab Smp Id: M0975-11A Client Smp ID: COMP-C-061313
Inj Date : 20-JUN-2013 16:41
Operator : GMA   SRC: LIMS Inst ID: E5.i
Smp Info : M0975-11A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.661	3.661	0.000	7301028	0.04841	16		
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
12.057	12.065	-0.008	21840144	0.09191	30		

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7643R.D
Date : 20-JUN-2013 16:41
Client ID: COMP-C-061313 Instrument: E5.i
Sample Info: M0975-11A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0 Operator: GMA SRC: LIMS
Column phase: CLPPestII Column diameter: 0.53



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-D-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-14A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E5J7644F.D/E5J7644R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4´-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4´-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4´-DDT	4.2	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7644F.D
Report Date: 25-Jun-2013 10:20

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

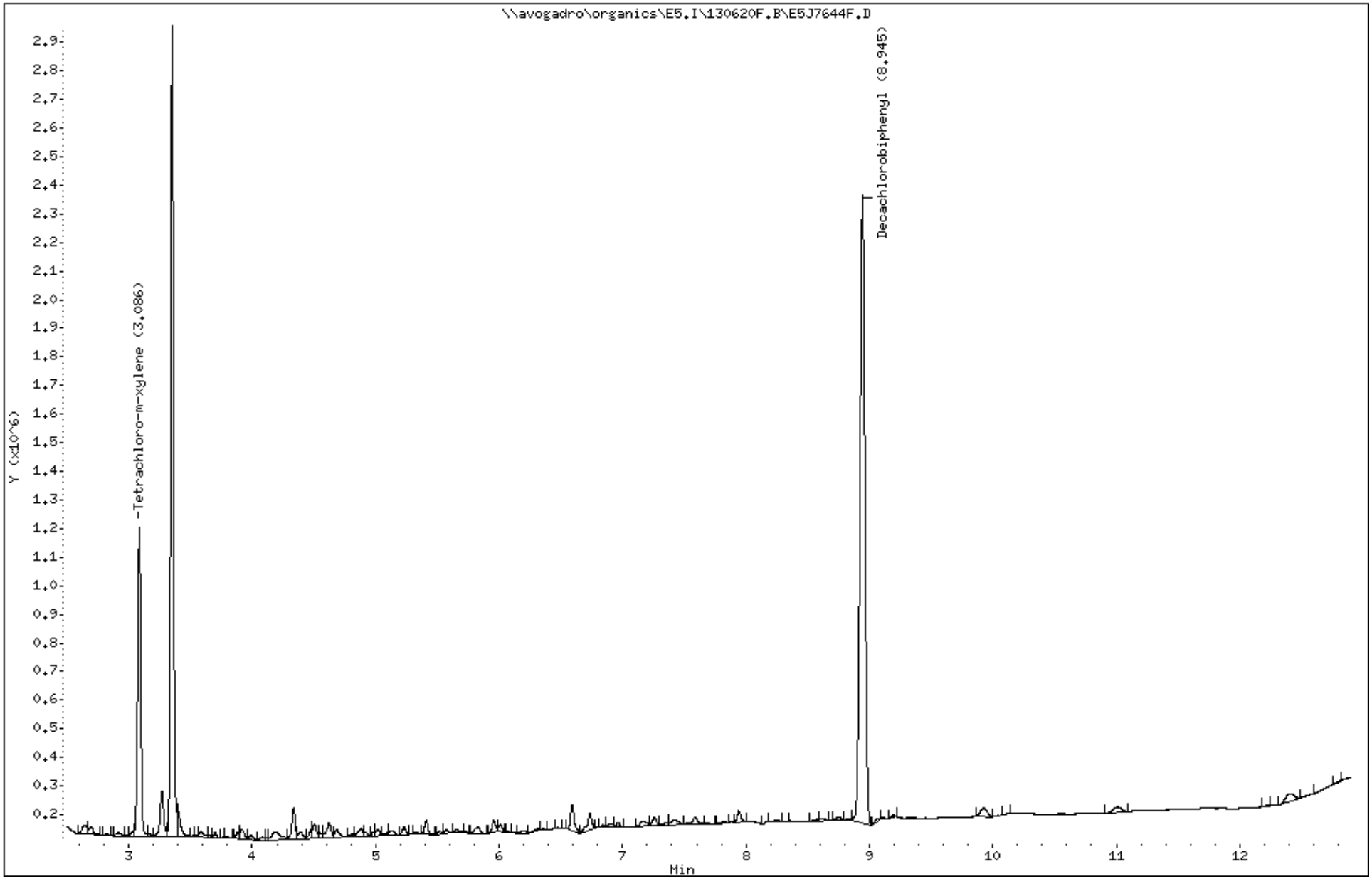
Data file : \\avogadro\organics\E5.I\130620F.B\E5J7644F.D
Lab Smp Id: M0975-14A Client Smp ID: COMP-D-061313
Inj Date : 20-JUN-2013 16:58
Operator : GMA   SRC: LIMS Inst ID: E5.i
Smp Info : M0975-14A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.085	3.085	0.000	1931713	0.04284		14	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
8.945	8.944	0.001	6007370	0.09344		31	

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7644F.D
Date : 20-JUN-2013 16:58
Client ID: COMP-D-061313 Instrument: E5.i
Sample Info: M0975-14A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0 Operator: GMA SRC: LIMS
Column phase: CLPPest Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130620R.B\E5J7644R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

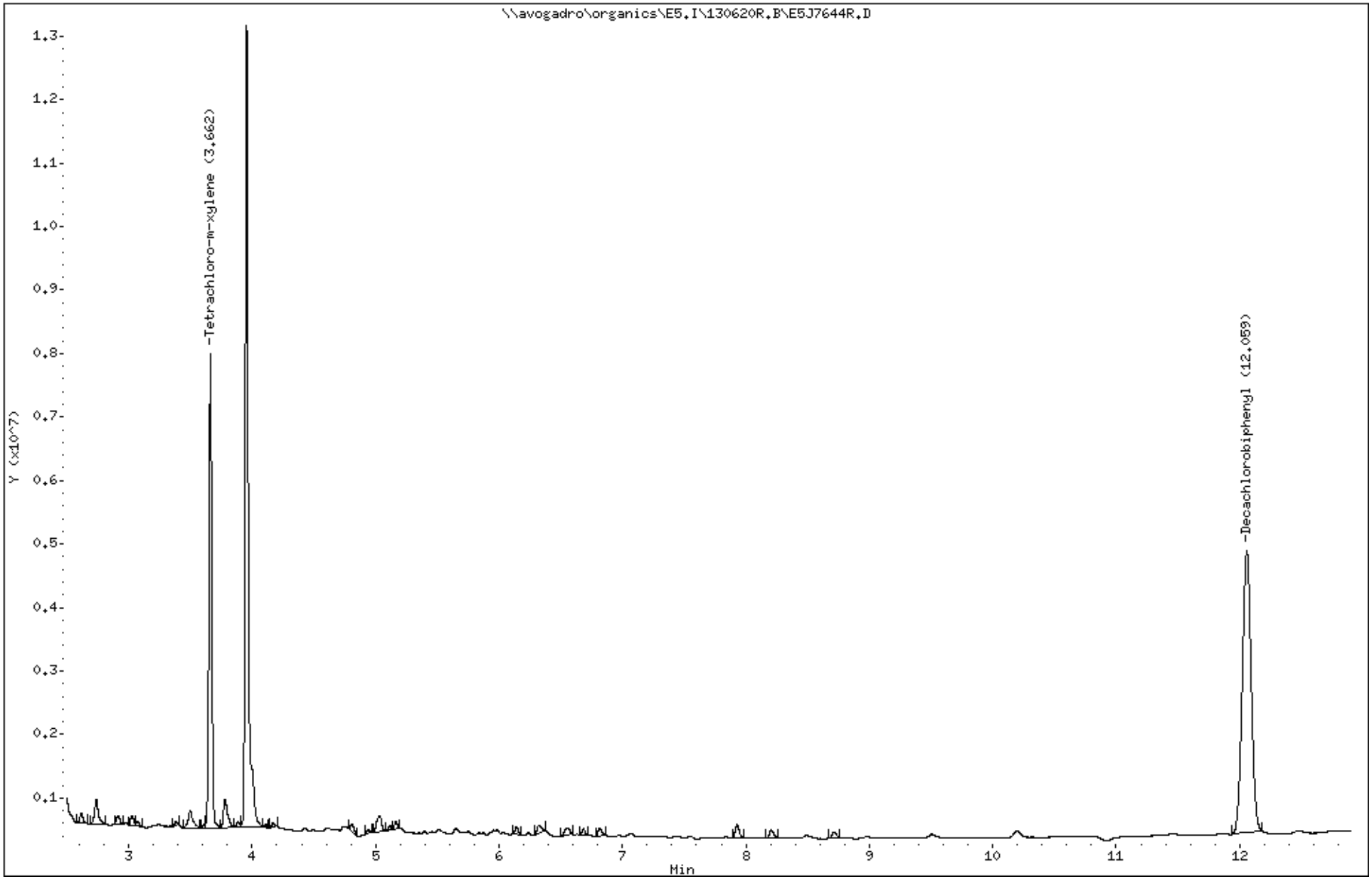
Data file : \\avogadro\organics\E5.I\130620R.B\E5J7644R.D
Lab Smp Id: M0975-14A Client Smp ID: COMP-D-061313
Inj Date : 20-JUN-2013 16:58
Operator : GMA   SRC: LIMS Inst ID: E5.i
Smp Info : M0975-14A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.661	3.661	0.000	7457106	0.04944		16	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
12.059	12.065	-0.006	22222547	0.09351		31	

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7644R.D
Date : 20-JUN-2013 16:58
Client ID: COMP-D-061313
Instrument: E5.i
Sample Info: M0975-14A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.53



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-E-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-18A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E5J7645F.D/E5J7645R.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4´-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4´-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4´-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7645F.D
Report Date: 25-Jun-2013 10:20

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

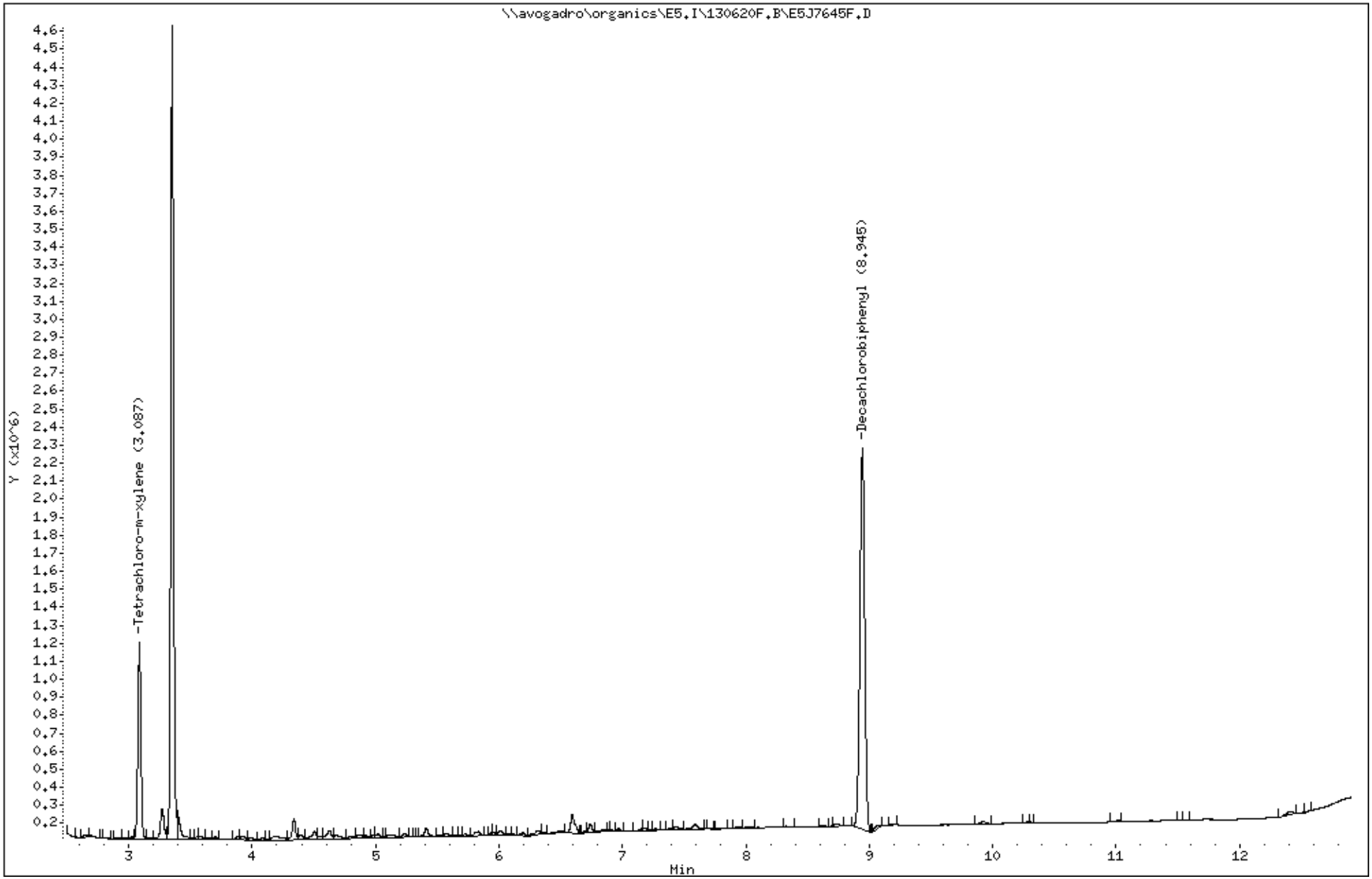
Data file : \\avogadro\organics\E5.I\130620F.B\E5J7645F.D
Lab Smp Id: M0975-18A Client Smp ID: COMP-E-061313
Inj Date : 20-JUN-2013 17:15
Operator : GMA   SRC: LIMS Inst ID: E5.i
Smp Info : M0975-18A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.087	3.085	0.002	1882639	0.04176		14	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
8.944	8.944	0.000	5752447	0.08947		30	

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7645F.D
Date : 20-JUN-2013 17:15
Client ID: COMP-E-061313 Instrument: E5.i
Sample Info: M0975-18A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0 Operator: GMA SRC: LIMS
Column phase: CLPPest Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130620R.B\E5J7645R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

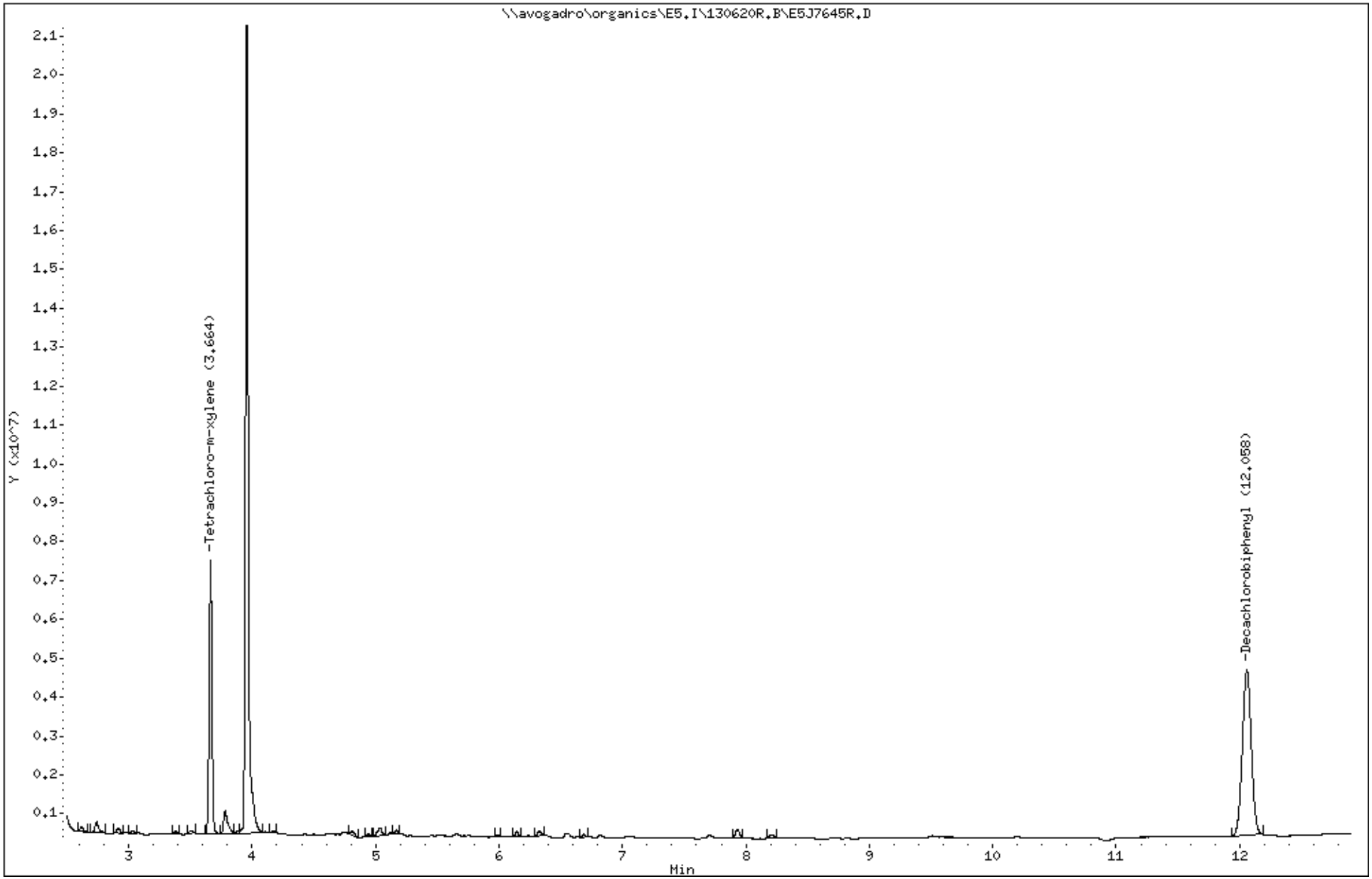
Data file : \\avogadro\organics\E5.I\130620R.B\E5J7645R.D
Lab Smp Id: M0975-18A Client Smp ID: COMP-E-061313
Inj Date : 20-JUN-2013 17:15
Operator : GMA   SRC: LIMS Inst ID: E5.i
Smp Info : M0975-18A,,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.663	3.661	0.002	7034644	0.04664		16	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
12.057	12.065	-0.008	21319727	0.08972		30	

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7645R.D
Date : 20-JUN-2013 17:15
Client ID: COMP-E-061313
Instrument: E5.i
Sample Info: M0975-18A,,72288,8081G,SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.53



6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E5

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: CLPPest ID: 0.53 (mm) Date(s) Analyzed: 06/19/2013 06/19/2013

COMPOUND	RT* OF STANDARDS					__ RT	RT WINDOW **	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	3.530	3.530	3.527	3.527	3.527	3.528	3.478	3.578
beta-BHC	3.858	3.858	3.855	3.855	3.855	3.856	3.806	3.906
delta-BHC	4.013	4.011	4.009	4.008	4.008	4.010	3.960	4.060
gamma-BHC (Lindane)	3.790	3.789	3.786	3.786	3.787	3.788	3.738	3.838
Heptachlor	4.199	4.199	4.195	4.195	4.195	4.197	4.147	4.247
Aldrin	4.470	4.470	4.466	4.465	4.466	4.467	4.417	4.517
Heptachlor epoxide	5.041	5.040	5.036	5.034	5.035	5.037	4.967	5.107
Endosulfan I	5.436	5.435	5.430	5.428	5.429	5.432	5.362	5.502
Dieldrin	5.688	5.687	5.682	5.680	5.681	5.684	5.614	5.754
4,4´-DDE	5.378	5.377	5.373	5.370	5.372	5.374	5.304	5.444
Endrin	5.934	5.933	5.928	5.926	5.927	5.930	5.860	6.000
Endosulfan II	6.181	6.178	6.172	6.170	6.169	6.174	6.104	6.244
4,4´-DDD	6.014	6.013	6.007	6.005	6.004	6.009	5.939	6.079
Endosulfan sulfate	7.104	7.103	7.099	7.097	7.097	7.100	7.030	7.170
4,4´-DDT	6.318	6.317	6.312	6.310	6.311	6.314	6.244	6.384
Methoxychlor	6.868	6.867	6.863	6.860	6.861	6.864	6.794	6.934
Endrin ketone	7.434	7.433	7.429	7.427	7.428	7.430	7.360	7.500
Endrin aldehyde	6.624	6.623	6.619	6.616	6.617	6.620	6.550	6.690
alpha-Chlordane	5.299	5.298	5.294	5.291	5.293	5.295	5.225	5.365
gamma-Chlordane	5.165	5.164	5.160	5.158	5.158	5.161	5.091	5.231
TCX (A)	3.088	3.087	3.085	3.085	3.086	3.086	3.036	3.136
DCB (A)	8.948	8.947	8.945	8.943	8.944	8.945	8.845	9.045

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mix C if one mix is used.

(B) Surrogate RTs are measured from Standard Mixture A if two mixtures are used. Leave entries blank if Standard Mixtures C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for all other compounds (except ± 0.10 minutes for DCB

TCX = Tetrachloro-m-xylene
DCB = Decachlorobipenyl

6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E5

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: CLPPestII ID: 0.53 (mm) Date(s) Analyzed: 06/19/2013 06/19/2013

COMPOUND	RT* OF STANDARDS					__	RT WINDOW **	
	CS1	CS2	CS3	CS4	CS5	RT	FROM	TO
alpha-BHC	4.249	4.249	4.245	4.245	4.247	4.247	4.197	4.297
beta-BHC	4.683	4.683	4.679	4.678	4.679	4.680	4.630	4.730
delta-BHC	5.002	5.000	4.997	4.996	4.997	4.999	4.949	5.049
gamma-BHC (Lindane)	4.609	4.609	4.605	4.605	4.607	4.607	4.557	4.657
Heptachlor	5.078	5.078	5.075	5.073	5.075	5.076	5.026	5.126
Aldrin	5.439	5.440	5.435	5.434	5.436	5.437	5.387	5.487
Heptachlor epoxide	6.085	6.084	6.080	6.078	6.080	6.081	6.011	6.151
Endosulfan I	6.530	6.530	6.526	6.523	6.525	6.527	6.457	6.597
Dieldrin	6.838	6.838	6.834	6.832	6.834	6.835	6.765	6.905
4,4´-DDE	6.637	6.635	6.631	6.630	6.631	6.633	6.563	6.703
Endrin	7.198	7.197	7.194	7.192	7.193	7.195	7.125	7.265
Endosulfan II	7.459	7.459	7.455	7.452	7.452	7.455	7.385	7.525
4,4´-DDD	7.325	7.325	7.320	7.317	7.317	7.321	7.251	7.391
Endosulfan sulfate	8.295	8.296	8.292	8.290	8.291	8.293	8.223	8.363
4,4´-DDT	7.728	7.729	7.724	7.723	7.724	7.726	7.656	7.796
Methoxychlor	8.794	8.794	8.791	8.789	8.789	8.791	8.721	8.861
Endrin ketone	9.158	9.158	9.155	9.153	9.153	9.155	9.085	9.225
Endrin aldehyde	7.902	7.901	7.897	7.896	7.897	7.899	7.829	7.969
alpha-Chlordane	6.459	6.458	6.455	6.452	6.453	6.455	6.385	6.525
gamma-Chlordane	6.297	6.295	6.291	6.290	6.291	6.293	6.223	6.363
TCX (A)	3.663	3.662	3.660	3.660	3.662	3.661	3.611	3.711
DCB (A)	12.064	12.069	12.063	12.065	12.066	12.065	11.965	12.165

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mix C if one mix is used.

(B) Surrogate RTs are measured from Standard Mixture A if two mixtures are used. Leave entries blank if Standard Mixtures C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for all other compounds (except ± 0.10 minutes for DCB

TCX = Tetrachloro-m-xylene
DCB = Decachlorobipenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E5

Level (x CS1): CS1 1.0 CS1 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	46212400	47382500	48355050	49964725	52359750	4.9
beta-BHC	29309800	30335100	29778000	29453450	30609413	1.9
delta-BHC	66359400	71387000	72389150	74249400	78017713	5.9
gamma-BHC (Lindane)	69966600	71816400	72290750	73825950	76750688	3.5
Heptachlor	73365000	73886900	73403100	73983100	76084025	1.5
Aldrin	67058000	68167100	68573550	69428350	71333213	2.3
Heptachlor epoxide	67129000	67146800	65956300	66447150	67535588	0.9
Endosulfan I	41261600	40279800	38840350	39178900	38740563	2.7
Dieldrin	70209300	70419000	70887150	71766150	72936250	1.6
4,4´-DDE	34838000	35806250	36252825	37551438	38793319	4.2
Endrin	36932100	37478350	37737025	38339688	38611469	1.8
Endosulfan II	61843700	59448500	56968675	56560613	56697544	4.0
4,4´-DDD	49320400	50235000	50989625	51468463	50556788	1.6
Endosulfan sulfate	58907400	57882400	56227050	59540825	58128138	2.2
4,4´-DDT	56784000	55824700	54853300	57346100	59073319	2.8
Methoxychlor	29618340	29180990	29144750	29250770	28750894	1.1
Endrin ketone	39344200	39002500	37383950	37492013	38838438	2.4
Endrin aldehyde	28893400	28731600	27693200	28416288	29291319	2.1
alpha-Chlordane	64395600	64947500	64025650	64015625	64756650	0.7
gamma-Chlordane	40740400	40749800	40239500	40777750	41242113	0.9
TCX (A)	44757800	44963700	44352650	45192000	46167775	1.5
DCB (A)	68900600	65705900	64071100	61062350	61718669	4.9

(A) Surrogate CFs and %RSD are measured from Standard Nixture A if two mixtures are used or from Standard mixture C if one misture is used.

(B) Surrogate CFs and %RSD are measured from Standard Nixture B if two mixtures are used. Leave entries blank if Standard mixture C if one misture is used.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E5

Level (x CS1): CS1 1.0 CS1 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	439371200	437627100	432840500	440893925	477163763	4.0
beta-BHC	137394200	199612300	173519700	158902125	155807113	14.1
delta-BHC	337307200	330929300	337988700	347605700	373476975	4.9
gamma-BHC (Lindane)	376147000	387462700	380894700	385683725	411383513	3.5
Heptachlor	399559000	389814900	386399700	391307625	417480463	3.1
Aldrin	359700800	350453700	344425850	348817350	368290625	2.7
Heptachlor epoxide	285762600	280101300	274639750	275685250	289233275	2.2
Endosulfan I	142644200	138838100	139923400	140921600	150113663	3.1
Dieldrin	265054200	263039100	264784325	271263188	285985144	3.5
4,4´-DDE	247431400	245138500	246531975	252256513	267654550	3.7
Endrin	114590100	114703950	117381650	123272600	132312900	6.2
Endosulfan II	229715400	225511650	231463775	238938388	250894006	4.2
4,4´-DDD	200881800	195978600	195129900	201552800	221182663	5.2
Endosulfan sulfate	199755800	196193600	192727825	195053838	207076413	2.8
4,4´-DDT	169519900	174563350	181029050	192355363	213215369	9.3
Methoxychlor	92835740	97013280	100587070	106934210	119258828	10.0
Endrin ketone	90880000	89973800	88704100	91036363	98515700	4.2
Endrin aldehyde	75784000	76698200	76887000	81086688	87685894	6.2
alpha-Chlordane	251631400	243849400	241349550	243036200	253705738	2.3
gamma-Chlordane	274545600	269060900	264980500	267276625	281067988	2.4
TCX (A)	151003600	149353800	145312450	149059375	159364200	3.5
DCB (A)	263625600	246619850	230243075	223253175	224449238	7.3

(A) Surrogate CFs and %RSD are measured from Standard Nixture A if two mixtures are used or from Standard mixture C if one misture is used.

(B) Surrogate CFs and %RSD are measured from Standard Nixture B if two mixtures are used. Leave entries blank if Standard mixture C if one misture is used.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6L - FORM VI PEST-3

TOXAPHENE INITIAL CALIBRATION

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID (1): E5 Date(s) Analyzed (1): 06/19/2013 06/19/2013

GC Column (1): CLPPest ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

		RT OF STANDARDS					__	RT WINDOW	
COMPOUND	PEAK [1]	CS1	CS2	CS3	CS4	CS5	RT	FROM	TO
TOXAPHENE	1	6.234	6.232	6.232	6.231	6.230	6.232	6.162	6.302
	2	6.292	6.291	6.291	6.289	6.289	6.290	6.220	6.360
	3	6.595	6.592	6.591	6.591	6.589	6.592	6.522	6.662
	4	6.986	6.985	6.984	6.982	6.981	6.984	6.914	7.054

Instrument ID (2): E5 Date(s) Analyzed (2): 06/19/2013 06/19/2013

GC Column (2): CLPPestII ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

		RT OF STANDARDS					__	RT WINDOW	
COMPOUND	PEAK [1]	CS1	CS2	CS3	CS4	CS5	RT	FROM	TO
TOXAPHENE	1	7.557	7.557	7.555	7.555	7.555	7.556	7.486	7.626
	2	7.904	7.903	7.902	7.901	7.900	7.902	7.832	7.972
	3	8.660	8.660	8.658	8.658	8.656	8.658	8.588	8.728
	4	8.759	8.758	8.757	8.756	8.756	8.757	8.687	8.827

[1]At least three peaks for each column are required for identification of Toxaphene.

6M - FORM VI PEST-4

TOXAPHENE INITIAL CALIBRATION

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID (1): E5 Date(s) Analyzed (1): 06/19/2013 06/19/2013

GC Column (1): CLPPest ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS1 2.0 CS3 4.0 CS4 8.0 CS5 16.0

COMPOUND	PEAK [1]	CALIBRATION FACTORS (CFs) STANDARDS					% RSD
		CS1	CS2	CS3	CS4	CS5	
TOXAPHENE	1	1077630	1174448	1187511	1302117	1327288	8.4
	2	997890	1058168	1083336	1144099	1217247	7.6
	3	1219740	1253956	1235396	1303554	1344837	4.1
	4	1460494	1521682	1526725	1573605	1594845	3.4

Instrument ID (2): E5 Date(s) Analyzed (2): 06/19/2013 06/19/2013

GC Column (2): CLPPestII ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS1 2.0 CS3 4.0 CS4 8.0 CS5 16.0

COMPOUND	PEAK [1]	CALIBRATION FACTORS (CFs) STANDARDS					% RSD
		CS1	CS2	CS3	CS4	CS5	
TOXAPHENE	1	5058972	5547743	5841996	5906956	6651956	10.0
	2	4409000	5019777	5548937	5863553	6540770	14.8
	3	2844330	3237724	3703560	3596140	4507142	17.3
	4	3160226	3693722	4195312	4352537	4930610	16.5

[1]At least three peaks for each column are required for identification of Toxaphene.

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM##): PEMJ5 Date Analyzed: 06/19/2013

Lab Sample ID (PEM): PEMJ5 Time Analyzed: 14:25

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	3.528	3.478	3.578	0.010	0.010	0.0
beta-BHC	3.856	3.806	3.906	0.010	0.010	0.0
gamma-BHC (Lindane)	3.788	3.738	3.838	0.010	0.010	0.0
Endrin	5.930	5.860	6.000	0.051	0.050	2.0
4,4´-DDT	6.315	6.244	6.384	0.109	0.100	9.0
Methoxychlor	6.864	6.794	6.934	0.270	0.250	8.0
TCX	3.086	3.036	3.136	0.020	0.020	0.0
DCB	8.945	8.845	9.045	0.021	0.020	5.0

4,4'-DDT %Breakdown (1): 1.7 Endrin %Breakdown (1): 5.2

Combined %Breakdown (1): 6.9

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM##): PEMJ5 Date Analyzed: 06/19/2013

Lab Sample ID (PEM): PEMJ5 Time Analyzed: 14:25

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.246	4.197	4.297	0.010	0.010	0.0
beta-BHC	4.680	4.630	4.730	0.009	0.010	-10.0
gamma-BHC (Lindane)	4.606	4.557	4.657	0.010	0.010	0.0
Endrin	7.195	7.125	7.265	0.050	0.050	0.0
4,4´-DDT	7.725	7.656	7.796	0.109	0.100	9.0
Methoxychlor	8.790	8.721	8.861	0.263	0.250	5.2
TCX	3.661	3.611	3.711	0.020	0.020	0.0
DCB	12.063	11.965	12.165	0.020	0.020	0.0

4,4'-DDT %Breakdown (1): 4.5 Endrin %Breakdown (1): 13.3

Combined %Breakdown (1): 17.8

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): PIBLKJA Date Analyzed: 06/20/2013

Lab Sample ID (PIBLK): PIBLKJA Time Analyzed: 12:15

EPA Sample No. (PEM##): PEMJA Date Analyzed: 06/20/2013

Lab Sample ID (PEM): PEMJA Time Analyzed: 12:32

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	3.529	3.478	3.578	0.010	0.010	0.0
beta-BHC	3.858	3.806	3.906	0.010	0.010	0.0
gamma-BHC (Lindane)	3.789	3.738	3.838	0.010	0.010	0.0
Endrin	5.934	5.860	6.000	0.053	0.050	6.0
4,4´-DDT	6.317	6.244	6.384	0.109	0.100	9.0
Methoxychlor	6.866	6.794	6.934	0.271	0.250	8.4
TCX	3.087	3.036	3.136	0.020	0.020	0.0
DCB	8.948	8.845	9.045	0.021	0.020	5.0

4,4'-DDT %Breakdown (1): 0.9 Endrin %Breakdown (1): 2.1

Combined %Breakdown (1): 3.0

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): PIBLKJA Date Analyzed: 06/20/2013

Lab Sample ID (PIBLK): PIBLKJA Time Analyzed: 12:15

EPA Sample No. (PEM##): PEMJA Date Analyzed: 06/20/2013

Lab Sample ID (PEM): PEMJA Time Analyzed: 12:32

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.248	4.197	4.297	0.010	0.010	0.0
beta-BHC	4.681	4.630	4.730	0.009	0.010	-10.0
gamma-BHC (Lindane)	4.609	4.557	4.657	0.010	0.010	0.0
Endrin	7.198	7.125	7.265	0.055	0.050	10.0
4,4´-DDT	7.725	7.656	7.796	0.110	0.100	10.0
Methoxychlor	8.790	8.721	8.861	0.268	0.250	7.2
TCX	3.663	3.611	3.711	0.020	0.020	0.0
DCB	12.063	11.965	12.165	0.018	0.020	-10.0

4,4'-DDT %Breakdown (1): 1.9 Endrin %Breakdown (1): 0.0

Combined %Breakdown (1): 1.9

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): PIBLKJB Date Analyzed: 06/20/2013

Lab Sample ID (PIBLK): PIBLKJB Time Analyzed: 19:00

EPA Sample No. (PEM##): PEMJB Date Analyzed: 06/20/2013

Lab Sample ID (PEM): PEMJB Time Analyzed: 19:18

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	3.528	3.478	3.578	0.010	0.010	0.0
beta-BHC	3.857	3.806	3.906	0.011	0.010	10.0
gamma-BHC (Lindane)	3.788	3.738	3.838	0.010	0.010	0.0
Endrin	5.932	5.860	6.000	0.054	0.050	8.0
4,4´-DDT	6.315	6.244	6.384	0.113	0.100	13.0
Methoxychlor	6.865	6.794	6.934	0.280	0.250	12.0
TCX	3.085	3.036	3.136	0.021	0.020	5.0
DCB	8.945	8.845	9.045	0.022	0.020	10.0

4,4'-DDT %Breakdown (1): 1.3 Endrin %Breakdown (1): 3.8

Combined %Breakdown (1): 5.1

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): PIBLKJB Date Analyzed: 06/20/2013

Lab Sample ID (PIBLK): PIBLKJB Time Analyzed: 19:00

EPA Sample No. (PEM##): PEMJB Date Analyzed: 06/20/2013

Lab Sample ID (PEM): PEMJB Time Analyzed: 19:18

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.247	4.197	4.297	0.010	0.010	0.0
beta-BHC	4.680	4.630	4.730	0.010	0.010	0.0
gamma-BHC (Lindane)	4.607	4.557	4.657	0.010	0.010	0.0
Endrin	7.196	7.125	7.265	0.053	0.050	6.0
4,4´-DDT	7.725	7.656	7.796	0.117	0.100	17.0
Methoxychlor	8.789	8.721	8.861	0.290	0.250	16.0
TCX	3.660	3.611	3.711	0.022	0.020	10.0
DCB	12.057	11.965	12.165	0.022	0.020	10.0

4,4'-DDT %Breakdown (1): 5.0 Endrin %Breakdown (1): 15.0

Combined %Breakdown (1): 20.0

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): PIBLKJA Date Analyzed: 06/20/2013

Lab Sample ID (PIBLK): PIBLKJA Time Analyzed: 12:15

EPA Sample No. (INDC3##): INDC3JA Date Analyzed: 06/20/2013

Lab Sample ID (INDC3): INDC3JA Time Analyzed: 12:50

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	__ CF	CF	%D
alpha-BHC	3.529	3.478	3.578	48854885.000	46642700.000	-4.5
beta-BHC	3.857	3.806	3.906	29897153.000	29357800.000	-1.8
delta-BHC	4.010	3.960	4.060	72480533.000	70760100.000	-2.4
gamma-BHC (Lindane)	3.788	3.738	3.838	72930078.000	69709450.000	-4.4
Heptachlor	4.197	4.147	4.247	74144425.000	69917250.000	-5.7
Aldrin	4.469	4.417	4.517	68912043.000	64511950.000	-6.4
Heptachlor epoxide	5.039	4.967	5.107	66842968.000	63334250.000	-5.2
Endosulfan I	5.432	5.362	5.502	39660243.000	37189650.000	-6.2
Dieldrin	5.685	5.614	5.754	71243570.000	69258575.000	-2.8
4,4´-DDE	5.374	5.304	5.444	36648366.000	38679850.000	5.5
Endrin	5.931	5.860	6.000	37819726.000	38929400.000	2.9
Endosulfan II	6.175	6.104	6.244	58303806.000	55526250.000	-4.8
4,4´-DDD	6.009	5.939	6.079	50514055.000	49507250.000	-2.0
Endosulfan sulfate	7.101	7.030	7.170	58137163.000	59903575.000	3.0
4,4´-DDT	6.315	6.244	6.384	56776284.000	57567225.000	1.4
Methoxychlor	6.863	6.794	6.934	29189149.000	30348185.000	4.0
Endrin ketone	7.431	7.360	7.500	38412220.000	37947375.000	-1.2
Endrin aldehyde	6.620	6.550	6.690	28605161.000	28347750.000	-0.9
alpha-Chlordane	5.296	5.225	5.365	64428205.000	61935800.000	-3.9
gamma-Chlordane	5.162	5.091	5.231	40749913.000	38877900.000	-4.6
TCX	3.086	3.036	3.136	45086785.000	44071250.000	-2.3
DCB	8.944	8.845	9.045	64291724.000	64233375.000	-0.1

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): PIBLKJA Date Analyzed: 06/20/2013

Lab Sample ID (PIBLK): PIBLKJA Time Analyzed: 12:15

EPA Sample No. (INDC3##): INDC3JA Date Analyzed: 06/20/2013

Lab Sample ID (INDC3): INDC3JA Time Analyzed: 12:50

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	__ CF	CF	%D
alpha-BHC	4.247	4.197	4.297	445579298.000	428376450.000	-3.9
beta-BHC	4.681	4.630	4.730	165047088.000	139291050.000	-15.6
delta-BHC	4.999	4.949	5.049	345461575.000	333525100.000	-3.5
gamma-BHC (Lindane)	4.607	4.557	4.657	388314328.000	373596700.000	-3.8
Heptachlor	5.077	5.026	5.126	396912338.000	368116950.000	-7.3
Aldrin	5.438	5.387	5.487	354337665.000	334098650.000	-5.7
Heptachlor epoxide	6.082	6.011	6.151	281084435.000	264087250.000	-6.0
Endosulfan I	6.528	6.457	6.597	142488193.000	136028250.000	-4.5
Dieldrin	6.836	6.765	6.905	270025191.000	259110200.000	-4.0
4,4´-DDE	6.632	6.563	6.703	251802588.000	239851700.000	-4.7
Endrin	7.196	7.125	7.265	120452240.000	129679925.000	7.7
Endosulfan II	7.454	7.385	7.525	235304644.000	217420650.000	-7.6
4,4´-DDD	7.318	7.251	7.391	202945153.000	196164125.000	-3.3
Endosulfan sulfate	8.291	8.223	8.363	198161495.000	191746650.000	-3.2
4,4´-DDT	7.724	7.656	7.796	186136606.000	184637500.000	-0.8
Methoxychlor	8.789	8.721	8.861	103325826.000	103086555.000	-0.2
Endrin ketone	9.153	9.085	9.225	91821993.000	88638900.000	-3.5
Endrin aldehyde	7.897	7.829	7.969	79628356.000	78494900.000	-1.4
alpha-Chlordane	6.456	6.385	6.525	246714458.000	229131450.000	-7.1
gamma-Chlordane	6.294	6.223	6.363	271386323.000	256384950.000	-5.5
TCX	3.662	3.611	3.711	150818685.000	149829550.000	-0.7
DCB	12.059	11.965	12.165	237638188.000	217815550.000	-8.3

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): PIBLKJB Date Analyzed: 06/20/2013

Lab Sample ID (PIBLK): PIBLKJB Time Analyzed: 19:00

EPA Sample No. (INDC3##): INDC3JB Date Analyzed: 06/20/2013

Lab Sample ID (INDC3): INDC3JB Time Analyzed: 19:35

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	__ CF	CF	%D
alpha-BHC	3.528	3.478	3.578	48854885.000	46922000.000	-4.0
beta-BHC	3.857	3.806	3.906	29897153.000	29280700.000	-2.1
delta-BHC	4.011	3.960	4.060	72480533.000	70156300.000	-3.2
gamma-BHC (Lindane)	3.788	3.738	3.838	72930078.000	68752000.000	-5.7
Heptachlor	4.197	4.147	4.247	74144425.000	70001300.000	-5.6
Aldrin	4.468	4.417	4.517	68912043.000	65074500.000	-5.6
Heptachlor epoxide	5.038	4.967	5.107	66842968.000	64516850.000	-3.5
Endosulfan I	5.433	5.362	5.502	39660243.000	38268550.000	-3.5
Dieldrin	5.686	5.614	5.754	71243570.000	70702450.000	-0.8
4,4´-DDE	5.376	5.304	5.444	36648366.000	37893325.000	3.4
Endrin	5.931	5.860	6.000	37819726.000	38906625.000	2.9
Endosulfan II	6.176	6.104	6.244	58303806.000	57310675.000	-1.7
4,4´-DDD	6.010	5.939	6.079	50514055.000	50498325.000	0.0
Endosulfan sulfate	7.101	7.030	7.170	58137163.000	61442950.000	5.7
4,4´-DDT	6.315	6.244	6.384	56776284.000	58519675.000	3.1
Methoxychlor	6.864	6.794	6.934	29189149.000	30289600.000	3.8
Endrin ketone	7.430	7.360	7.500	38412220.000	39286125.000	2.3
Endrin aldehyde	6.621	6.550	6.690	28605161.000	29162400.000	1.9
alpha-Chlordane	5.297	5.225	5.365	64428205.000	59724450.000	-7.3
gamma-Chlordane	5.162	5.091	5.231	40749913.000	39196750.000	-3.8
TCX	3.086	3.036	3.136	45086785.000	43152400.000	-4.3
DCB	8.944	8.845	9.045	64291724.000	65398875.000	1.7

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 06/19/2013 06/19/2013

EPA Sample No. (PIBLK##): PIBLKJB Date Analyzed: 06/20/2013

Lab Sample ID (PIBLK): PIBLKJB Time Analyzed: 19:00

EPA Sample No. (INDC3##): INDC3JB Date Analyzed: 06/20/2013

Lab Sample ID (INDC3): INDC3JB Time Analyzed: 19:35

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	__ CF	CF	%D
alpha-BHC	4.247	4.197	4.297	445579298.000	441056250.000	-1.0
beta-BHC	4.681	4.630	4.730	165047088.000	142878700.000	-13.4
delta-BHC	5.000	4.949	5.049	345461575.000	353229750.000	2.2
gamma-BHC (Lindane)	4.608	4.557	4.657	388314328.000	385774900.000	-0.7
Heptachlor	5.077	5.026	5.126	396912338.000	391087550.000	-1.5
Aldrin	5.439	5.387	5.487	354337665.000	350574600.000	-1.1
Heptachlor epoxide	6.083	6.011	6.151	281084435.000	277400150.000	-1.3
Endosulfan I	6.528	6.457	6.597	142488193.000	145542400.000	2.1
Dieldrin	6.836	6.765	6.905	270025191.000	272313875.000	0.8
4,4´-DDE	6.633	6.563	6.703	251802588.000	249805200.000	-0.8
Endrin	7.196	7.125	7.265	120452240.000	127810375.000	6.1
Endosulfan II	7.455	7.385	7.525	235304644.000	228831475.000	-2.8
4,4´-DDD	7.319	7.251	7.391	202945153.000	207377500.000	2.2
Endosulfan sulfate	8.292	8.223	8.363	198161495.000	198824600.000	0.3
4,4´-DDT	7.725	7.656	7.796	186136606.000	185285025.000	-0.5
Methoxychlor	8.789	8.721	8.861	103325826.000	105935390.000	2.5
Endrin ketone	9.153	9.085	9.225	91821993.000	93631450.000	2.0
Endrin aldehyde	7.898	7.829	7.969	79628356.000	82073675.000	3.1
alpha-Chlordane	6.456	6.385	6.525	246714458.000	249938000.000	1.3
gamma-Chlordane	6.294	6.223	6.363	271386323.000	270060750.000	-0.5
TCX	3.661	3.611	3.711	150818685.000	152970900.000	1.4
DCB	12.057	11.965	12.165	237638188.000	229202275.000	-3.5

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 06/19/2013 06/19/2013

Instrument ID: E5

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.086 DCB: 8.945

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PEMJ5	E5J7605F.D	6/19/2013	14:25	3.086	8.945
02	TOXAPH1J5	E5J7607F.D	6/19/2013	15:00	3.087	8.947
03	TOXAPH2J5	E5J7608F.D	6/19/2013	15:18	3.087	8.948
04	TOXAPH3J5	E5J7609F.D	6/19/2013	15:36	3.088	8.947
05	TOXAPH4J5	E5J7610F.D	6/19/2013	15:53	3.086	8.945
06	TOXAPH5J5	E5J7611F.D	6/19/2013	16:11	3.085	8.945
07	TC3J5	E5J7612F.D	6/19/2013	16:28	3.086	8.946
08	INDC1J5	E5J7614F.D	6/19/2013	17:04	3.088	8.948
09	INDC2J5	E5J7615F.D	6/19/2013	17:22	3.087	8.947
10	INDC3J5	E5J7616F.D	6/19/2013	17:39	3.085	8.945
11	INDC4J5	E5J7617F.D	6/19/2013	17:57	3.085	8.943
12	INDC5J5	E5J7618F.D	6/19/2013	18:15	3.086	8.944
13	PEMJA	E5J7629F.D	6/20/2013	12:32	3.087	8.948
14	INDC3JA	E5J7630F.D	6/20/2013	12:50	3.086	8.944
15	TOXAPH3JA	E5J7631F.D	6/20/2013	13:08	3.087	8.944
16	MB-72288	E5J7636F.D	6/20/2013	14:36	3.086	8.944
17	LCS-72288	E5J7637F.D	6/20/2013	14:56	3.087	8.949
18	LCSD-72288	E5J7638F.D	6/20/2013	15:13	3.087	8.944
19	COMP-A-061313	E5J7641F.D	6/20/2013	16:06	3.087	8.943
20	COMP-B-061313	E5J7642F.D	6/20/2013	16:23	3.085	8.944
21	COMP-C-061313	E5J7643F.D	6/20/2013	16:41	3.085	8.943
22	COMP-D-061313	E5J7644F.D	6/20/2013	16:58	3.086	8.945
23	COMP-E-061313	E5J7645F.D	6/20/2013	17:15	3.087	8.945

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 06/19/2013 06/19/2013

Instrument ID: E5

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.086 DCB: 8.945

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
24	PEMJB	E5J7652F.D	6/20/2013	19:18	3.085		8.945	
25	INDC3JB	E5J7653F.D	6/20/2013	19:35	3.086		8.944	
26	TOXAPH3JB	E5J7654F.D	6/20/2013	19:53	3.085		8.944	

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 06/19/2013 06/19/2013

Instrument ID: E5

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.661 DCB: 12.065

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PEMJ5	E5J7605R.D	6/19/2013	14:25	3.661	12.063
02	TOXAPH1J5	E5J7607R.D	6/19/2013	15:00	3.662	12.066
03	TOXAPH2J5	E5J7608R.D	6/19/2013	15:18	3.661	12.065
04	TOXAPH3J5	E5J7609R.D	6/19/2013	15:36	3.662	12.062
05	TOXAPH4J5	E5J7610R.D	6/19/2013	15:53	3.662	12.061
06	TOXAPH5J5	E5J7611R.D	6/19/2013	16:11	3.661	12.063
07	TC3J5	E5J7612R.D	6/19/2013	16:28	3.662	12.063
08	INDC1J5	E5J7614R.D	6/19/2013	17:04	3.663	12.064
09	INDC2J5	E5J7615R.D	6/19/2013	17:22	3.662	12.069
10	INDC3J5	E5J7616R.D	6/19/2013	17:39	3.660	12.063
11	INDC4J5	E5J7617R.D	6/19/2013	17:57	3.660	12.065
12	INDC5J5	E5J7618R.D	6/19/2013	18:15	3.662	12.066
13	PEMJA	E5J7629R.D	6/20/2013	12:32	3.663	12.063
14	INDC3JA	E5J7630R.D	6/20/2013	12:50	3.662	12.059
15	TOXAPH3JA	E5J7631R.D	6/20/2013	13:08	3.663	12.062
16	MB-72288	E5J7636R.D	6/20/2013	14:36	3.662	12.057
17	LCS-72288	E5J7637R.D	6/20/2013	14:56	3.661	12.065
18	LCSD-72288	E5J7638R.D	6/20/2013	15:13	3.664	12.059
19	COMP-A-061313	E5J7641R.D	6/20/2013	16:06	3.663	12.058
20	COMP-B-061313	E5J7642R.D	6/20/2013	16:23	3.662	12.060
21	COMP-C-061313	E5J7643R.D	6/20/2013	16:41	3.661	12.057
22	COMP-D-061313	E5J7644R.D	6/20/2013	16:58	3.662	12.059
23	COMP-E-061313	E5J7645R.D	6/20/2013	17:15	3.664	12.058

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 06/19/2013 06/19/2013

Instrument ID: E5

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION TCX: 3.661 DCB: 12.065							
	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
24	PEMJB	E5J7652R.D	6/20/2013	19:18	3.660		12.057	
25	INDC3JB	E5J7653R.D	6/20/2013	19:35	3.661		12.057	
26	TOXAPH3JB	E5J7654R.D	6/20/2013	19:53	3.661		12.058	

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
LCS-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72288 Date(s) Analyzed: 06/20/2013 06/20/2013

Instrument ID (1): E5 Instrument ID (2): E5

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
	1	3.530	3.478	3.578	5.8	
alpha-BHC	2	4.247	4.197	4.297	6.2	5.6
	1	3.859	3.806	3.906	6.1	
beta-BHC	2	4.680	4.630	4.730	5.4	13.4
	1	4.012	3.960	4.060	6.1	
delta-BHC	2	4.999	4.949	5.049	6.5	5.5
	1	3.789	3.738	3.838	5.8	
gamma-BHC (Lindane)	2	4.607	4.557	4.657	6.1	4.6
	1	4.199	4.147	4.247	6.0	
Heptachlor	2	5.077	5.026	5.126	6.2	4.3
	1	4.470	4.417	4.517	5.8	
Aldrin	2	5.437	5.387	5.487	6.0	3.6
	1	5.040	4.967	5.107	6.0	
Heptachlor epoxide	2	6.082	6.011	6.151	6.1	1.6
	1	5.435	5.362	5.502	5.9	
Endosulfan I	2	6.527	6.457	6.597	6.0	2.2
	1	5.687	5.614	5.754	13	
Dieldrin	2	6.836	6.765	6.905	13	0.4
	1	5.377	5.304	5.444	13	
4,4´-DDE	2	6.633	6.563	6.703	12	7.0
	1	5.933	5.860	6.000	13	
Endrin	2	7.196	7.125	7.265	14	6.1
	1	6.176	6.104	6.244	12	
Endosulfan II	2	7.456	7.385	7.525	12	2.5
	1	6.011	5.939	6.079	12	
4,4´-DDD	2	7.320	7.251	7.391	13	6.8
	1	7.104	7.030	7.170	13	
Endosulfan sulfate	2	8.294	8.223	8.363	13	6.1
	1	6.316	6.244	6.384	13	
4,4´-DDT	2	7.727	7.656	7.796	13	2.2
	1	6.867	6.794	6.934	67	
Methoxychlor	2	8.792	8.721	8.861	66	1.1
	1	7.434	7.360	7.500	13	
Endrin ketone	2	9.158	9.085	9.225	12	2.2

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
LCS-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72288 Date(s) Analyzed: 06/20/2013 06/20/2013

Instrument ID (1): E5 Instrument ID (2): E5

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	1	6.622	6.550	6.690	13	
Endrin aldehyde	2	7.900	7.829	7.969	13	0
	1	5.298	5.225	5.365	5.9	
alpha-Chlordane	2	6.456	6.385	6.525	6.1	2.5
	1	5.164	5.091	5.231	5.9	
gamma-Chlordane	2	6.294	6.223	6.363	6.2	4.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
LCSD-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCSD-72288 Date(s) Analyzed: 06/20/2013 06/20/2013

Instrument ID (1): E5 Instrument ID (2): E5

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
	1	3.529	3.478	3.578	5.9	
alpha-BHC	2	4.248	4.197	4.297	6.1	3.1
	1	3.857	3.806	3.906	6.2	
beta-BHC	2	4.682	4.630	4.730	5.3	18.0
	1	4.011	3.960	4.060	6.2	
delta-BHC	2	5.000	4.949	5.049	6.4	2.0
	1	3.789	3.738	3.838	5.9	
gamma-BHC (Lindane)	2	4.608	4.557	4.657	6.1	3.3
	1	4.198	4.147	4.247	6.1	
Heptachlor	2	5.077	5.026	5.126	6.2	2.1
	1	4.469	4.417	4.517	5.9	
Aldrin	2	5.438	5.387	5.487	6.1	2.6
	1	5.040	4.967	5.107	6.0	
Heptachlor epoxide	2	6.082	6.011	6.151	6.2	2.2
	1	5.433	5.362	5.502	5.9	
Endosulfan I	2	6.528	6.457	6.597	6.1	3.3
	1	5.685	5.614	5.754	12	
Dieldrin	2	6.837	6.765	6.905	13	2.4
	1	5.375	5.304	5.444	13	
4,4´-DDE	2	6.633	6.563	6.703	12	7.6
	1	5.931	5.860	6.000	13	
Endrin	2	7.196	7.125	7.265	14	6.6
	1	6.175	6.104	6.244	12	
Endosulfan II	2	7.455	7.385	7.525	12	1.7
	1	6.009	5.939	6.079	13	
4,4´-DDD	2	7.318	7.251	7.391	13	3.1
	1	7.101	7.030	7.170	13	
Endosulfan sulfate	2	8.292	8.223	8.363	13	6.4
	1	6.314	6.244	6.384	13	
4,4´-DDT	2	7.725	7.656	7.796	13	1.8
	1	6.864	6.794	6.934	67	
Methoxychlor	2	8.789	8.721	8.861	66	2.0
	1	7.431	7.360	7.500	13	
Endrin ketone	2	9.153	9.085	9.225	13	1.3

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
LCSD-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCSD-72288 Date(s) Analyzed: 06/20/2013 06/20/2013

Instrument ID (1): E5 Instrument ID (2): E5

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	1	6.621	6.550	6.690	13	
Endrin aldehyde	2	7.898	7.829	7.969	13	1.3
	1	5.297	5.225	5.365	6.0	
alpha-Chlordane	2	6.457	6.385	6.525	6.1	1.2
	1	5.162	5.091	5.231	6.0	
gamma-Chlordane	2	6.294	6.223	6.363	6.3	4.2

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7607F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7607F.D
Lab Smp Id: TOXAPH1J5 Client Smp ID: TOXAPH1J5
Inj Date : 19-JUN-2013 15:00
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH1J5,TOXAPH1J5,,somtox.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 17:04 Cal File: E5J7614F.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

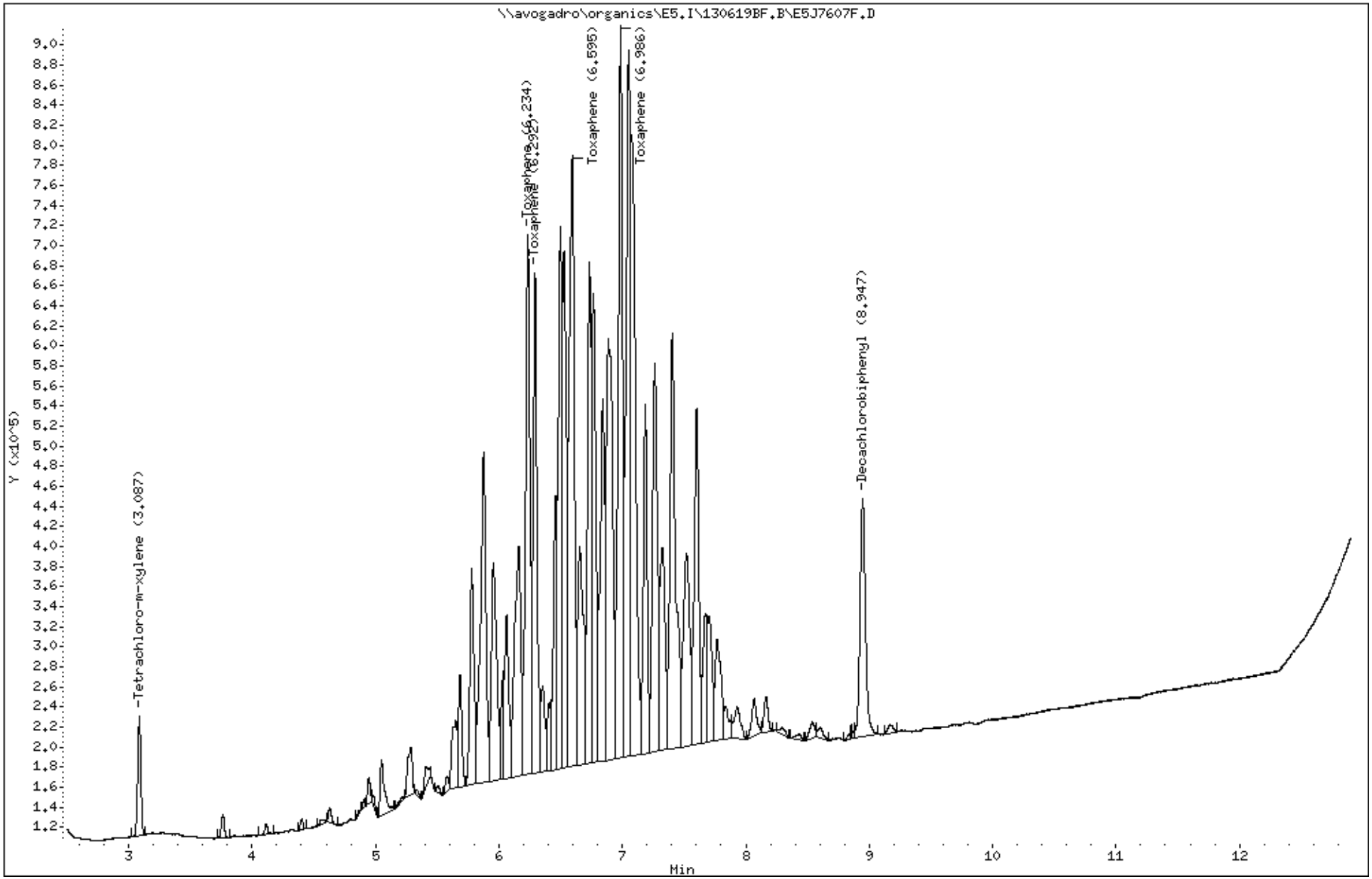
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.086	3.085	0.001	215568	0.00500	0.0048			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
8.946	8.944	0.002	733180	0.01000	0.011			(a)
28 Toxaphene						CAS #: 8001-35-2		
6.234	6.230	0.004	538815	0.50000	0.48	80.00- 120.00	100.00	(a)
6.292	6.289	0.003	498945	0.50000	0.50	67.86- 107.86	92.60	
6.594	6.590	0.004	609870	0.50000	0.53	80.11- 120.11	113.19	
6.985	6.982	0.003	730247	0.50000	0.51	100.85- 140.85	135.53	
Average of Peak Amounts =					0.50500			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7607F.D
Date : 19-JUN-2013 15:00
Client ID: TOXAPH1J5
Instrument: E5.i
Sample Info: TOXAPH1J5,TOXAPH1J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7607R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7607R.D
Lab Smp Id: TOXAPH1J5 Client Smp ID: TOXAPH1J5
Inj Date : 19-JUN-2013 15:00
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH1J5,TOXAPH1J5,,somtox.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 15:00 Cal File: E5J7607R.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

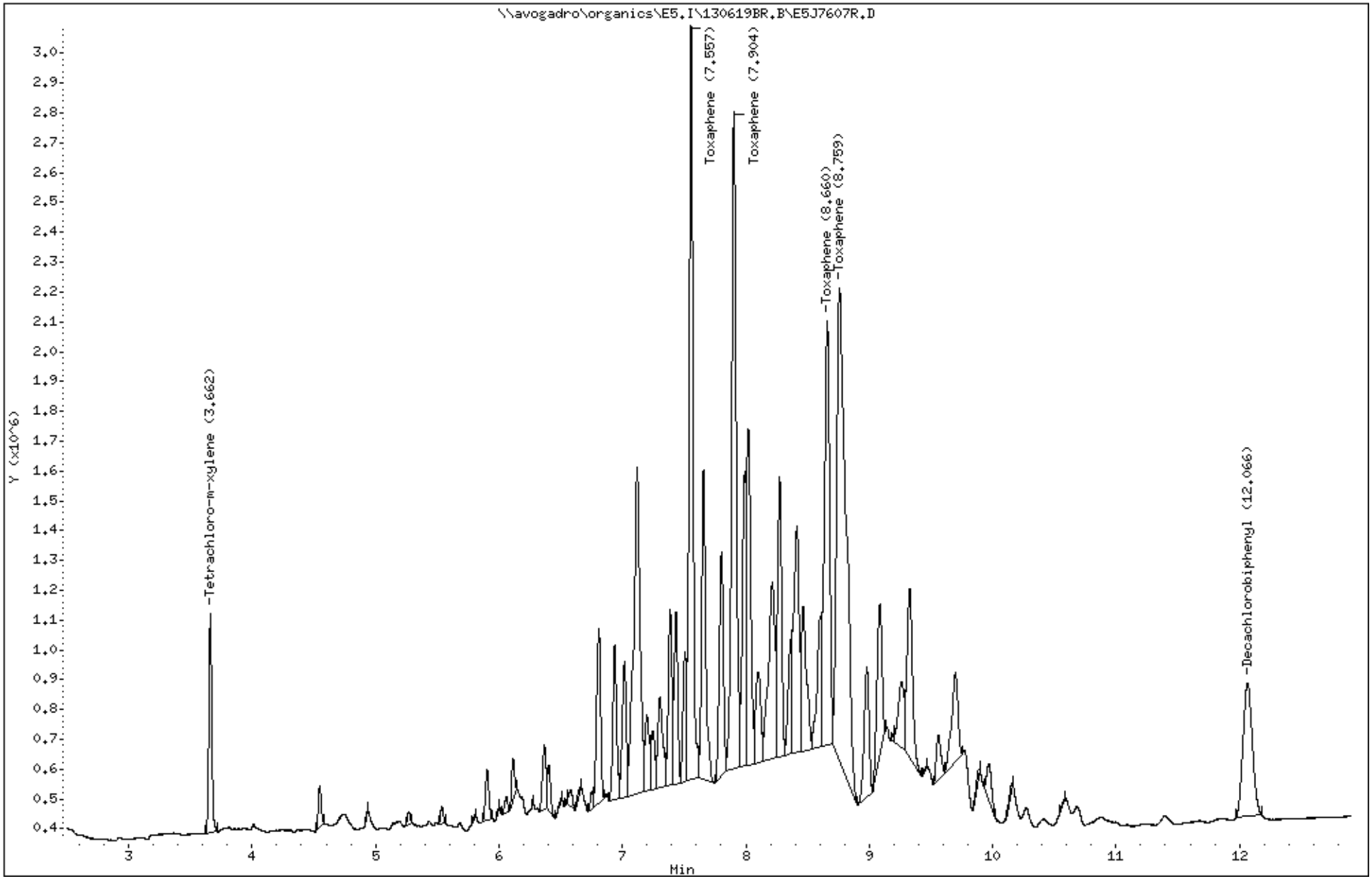
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.661	3.661	0.000	736315	0.00500				(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
12.065	12.065	0.000	2359040	0.01000				(a)
28 Toxaphene					CAS #: 8001-35-2			
7.556	7.555	0.001	2529486	0.50000	0.56	80.00- 120.00	100.00	(a)
7.904	7.900	0.004	2204500	0.50000	0.56	78.33- 118.33	87.15	
8.659	8.656	0.003	1422165	0.50000	0.53	47.76- 87.76	56.22	
8.759	8.756	0.003	1580113	0.50000	0.54	54.12- 94.12	62.47	
Average of Peak Amounts =					0.54750			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7607R.D
Date : 19-JUN-2013 15:00
Client ID: TOXAPH1J5
Instrument: E5.i
Sample Info: TOXAPH1J5,TOXAPH1J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7608F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7608F.D
Lab Smp Id: TOXAPH2J5 Client Smp ID: TOXAPH2J5
Inj Date : 19-JUN-2013 15:18
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH2J5,TOXAPH2J5,,somtox.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 17:22 Cal File: E5J7615F.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

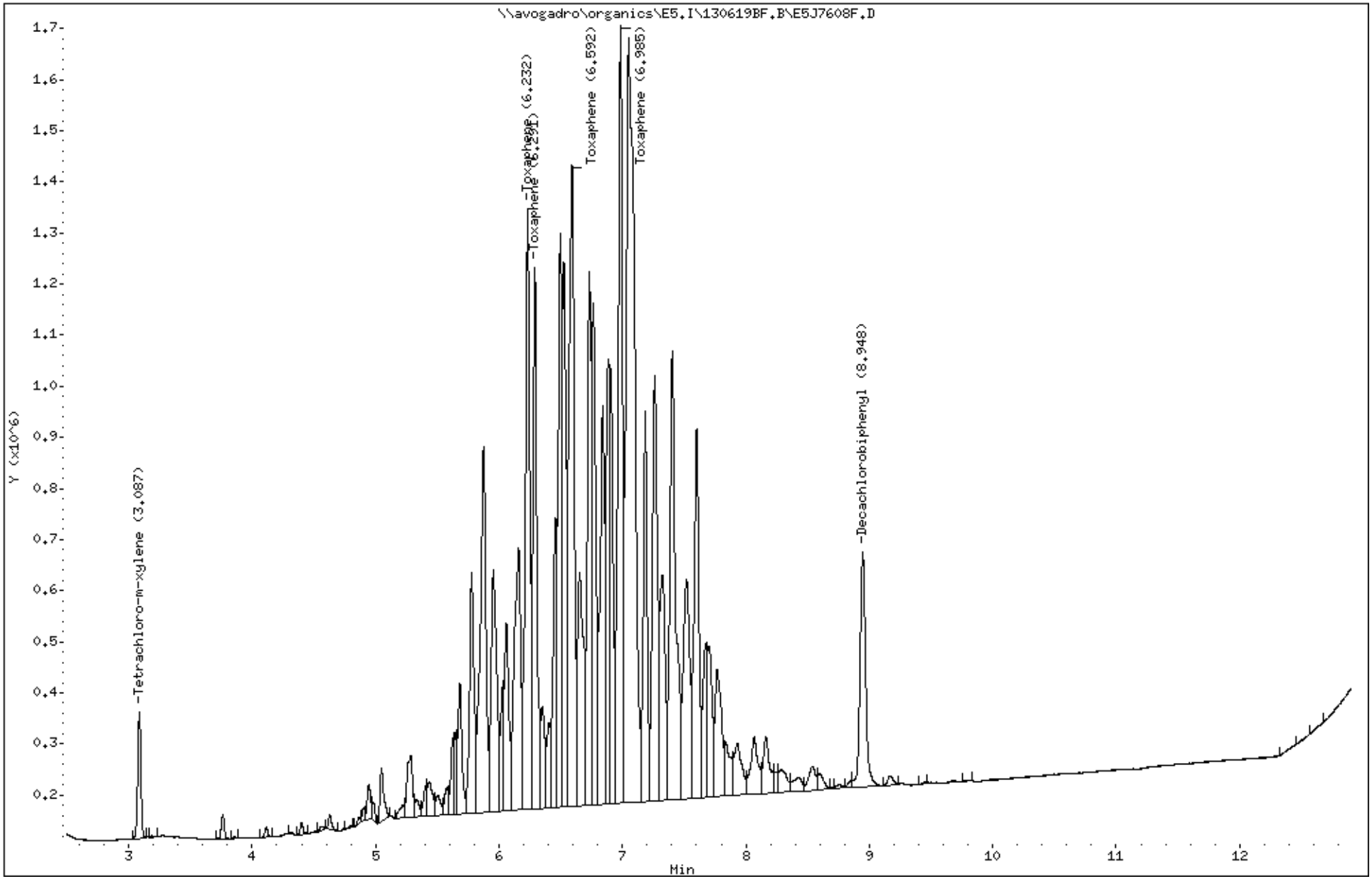
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.087	3.085	0.002	440595	0.01000	0.0098			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
8.948	8.944	0.004	1469741	0.02000	0.023			(a)
28 Toxaphene						CAS #: 8001-35-2		
6.232	6.230	0.002	1174448	1.00000	1.0	80.00- 120.00	100.00	(a)
6.290	6.289	0.001	1058168	1.00000	1.0	67.86- 107.86	90.10	
6.592	6.590	0.002	1253956	1.00000	1.1	80.11- 120.11	106.77	
6.984	6.982	0.002	1521682	1.00000	1.1	100.85- 140.85	129.57	
Average of Peak Amounts =					1.05000			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7608F.D
Date : 19-JUN-2013 15:18
Client ID: TOXAPH2J5
Instrument: E5.i
Sample Info: TOXAPH2J5,TOXAPH2J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7608R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7608R.D
Lab Smp Id: TOXAPH2J5 Client Smp ID: TOXAPH2J5
Inj Date : 19-JUN-2013 15:18
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH2J5,TOXAPH2J5,,somtox.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 15:18 Cal File: E5J7608R.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

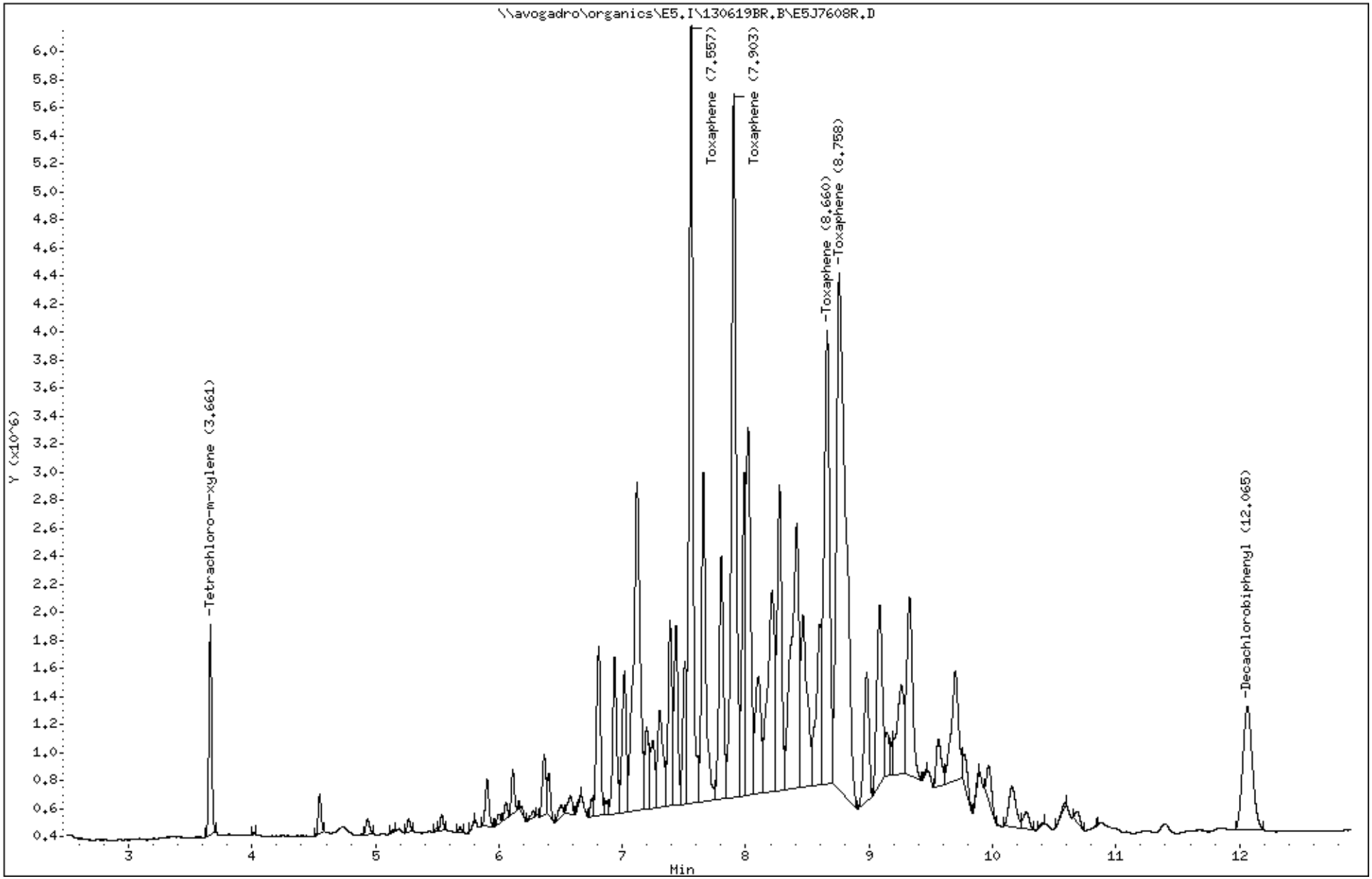
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.661	3.661	0.000	1493367	0.01000				(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
12.064	12.065	-0.001	4687564	0.02000				(a)
28 Toxaphene						CAS #: 8001-35-2		
7.557	7.555	0.002	5547743	1.00000	1.2	80.00- 120.00	100.00	(a)
7.903	7.900	0.003	5019777	1.00000	1.2	78.33- 118.33	90.48	
8.659	8.656	0.003	3237724	1.00000	1.2	47.76- 87.76	58.36	
8.758	8.756	0.002	3693722	1.00000	1.2	54.12- 94.12	66.58	
Average of Peak Amounts =				1.20000				

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7608R.D
Date : 19-JUN-2013 15:18
Client ID: TOXAPH2J5
Instrument: E5.i
Sample Info: TOXAPH2J5,TOXAPH2J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7609F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7609F.D
Lab Smp Id: TOXAPH3J5 Client Smp ID: TOXAPH3J5
Inj Date : 19-JUN-2013 15:36
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH3J5,TOXAPH3J5,,somtox.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 17:39 Cal File: E5J7616F.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

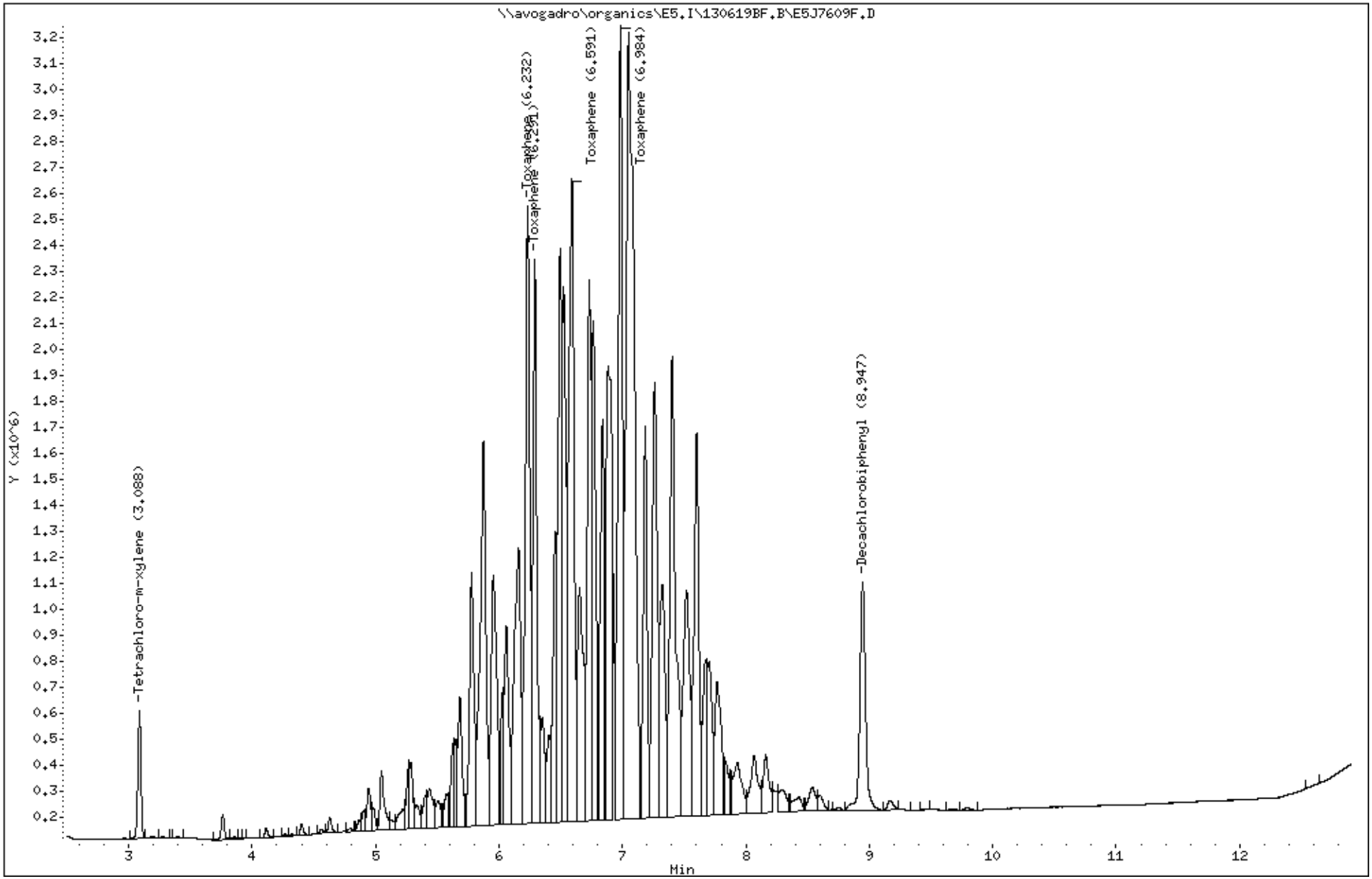
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.087	3.085	0.002	859440	0.02000	0.019			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
8.946	8.944	0.002	2846949	0.04000	0.044			(a)
28 Toxaphene					CAS #: 8001-35-2			
6.231	6.230	0.001	2375022	2.00000	2.1	80.00- 120.00	100.00	(aM)M3 GMA 06/25
6.290	6.289	0.001	2166671	2.00000	2.1	67.86- 107.86	91.23	
6.590	6.590	0.000	2470791	2.00000	2.1	80.11- 120.11	104.03	
6.984	6.982	0.002	3053449	2.00000	2.1	100.85- 140.85	128.57	
Average of Peak Amounts =					2.10000			

QC Flag Legend

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

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7609F.D
Date : 19-JUN-2013 15:36
Client ID: TOXAPH3J5
Instrument: E5.i
Sample Info: TOXAPH3J5,TOXAPH3J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7609R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7609R.D
Lab Smp Id: TOXAPH3J5 Client Smp ID: TOXAPH3J5
Inj Date : 19-JUN-2013 15:36
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH3J5,TOXAPH3J5,,somtox.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 15:36 Cal File: E5J7609R.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

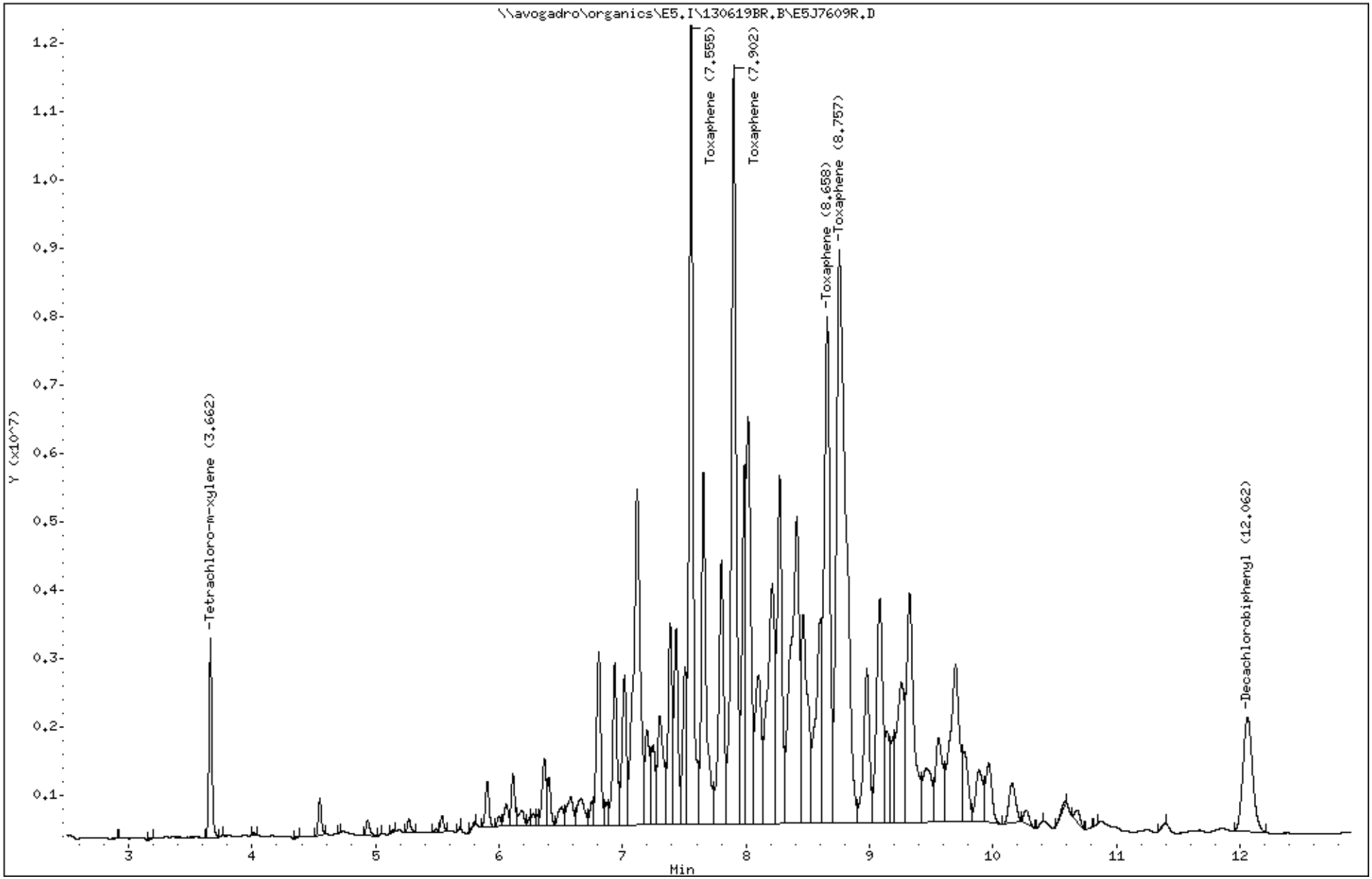
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.661	3.661	0.000	2911041	0.02000				(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
12.061	12.065	-0.004	9026202	0.04000				(a)
28 Toxaphene					CAS #: 8001-35-2			
7.555	7.555	0.000	11683991	2.00000	2.3	80.00- 120.00	100.00	(a)
7.901	7.900	0.001	11097874	2.00000	2.5	78.33- 118.33	94.98	
8.658	8.656	0.002	7407119	2.00000	2.5	47.76- 87.76	63.40	
8.756	8.756	0.000	8390623	2.00000	2.6	54.12- 94.12	71.81	
Average of Peak Amounts =				2.47500				

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7609R.D
Date : 19-JUN-2013 15:36
Client ID: TOXAPH3J5
Instrument: E5.i
Sample Info: TOXAPH3J5,TOXAPH3J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7610F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7610F.D
Lab Smp Id: TOXAPH4J5 Client Smp ID: TOXAPH4J5
Inj Date : 19-JUN-2013 15:53
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH4J5,TOXAPH4J5,,somtox.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 17:57 Cal File: E5J7617F.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

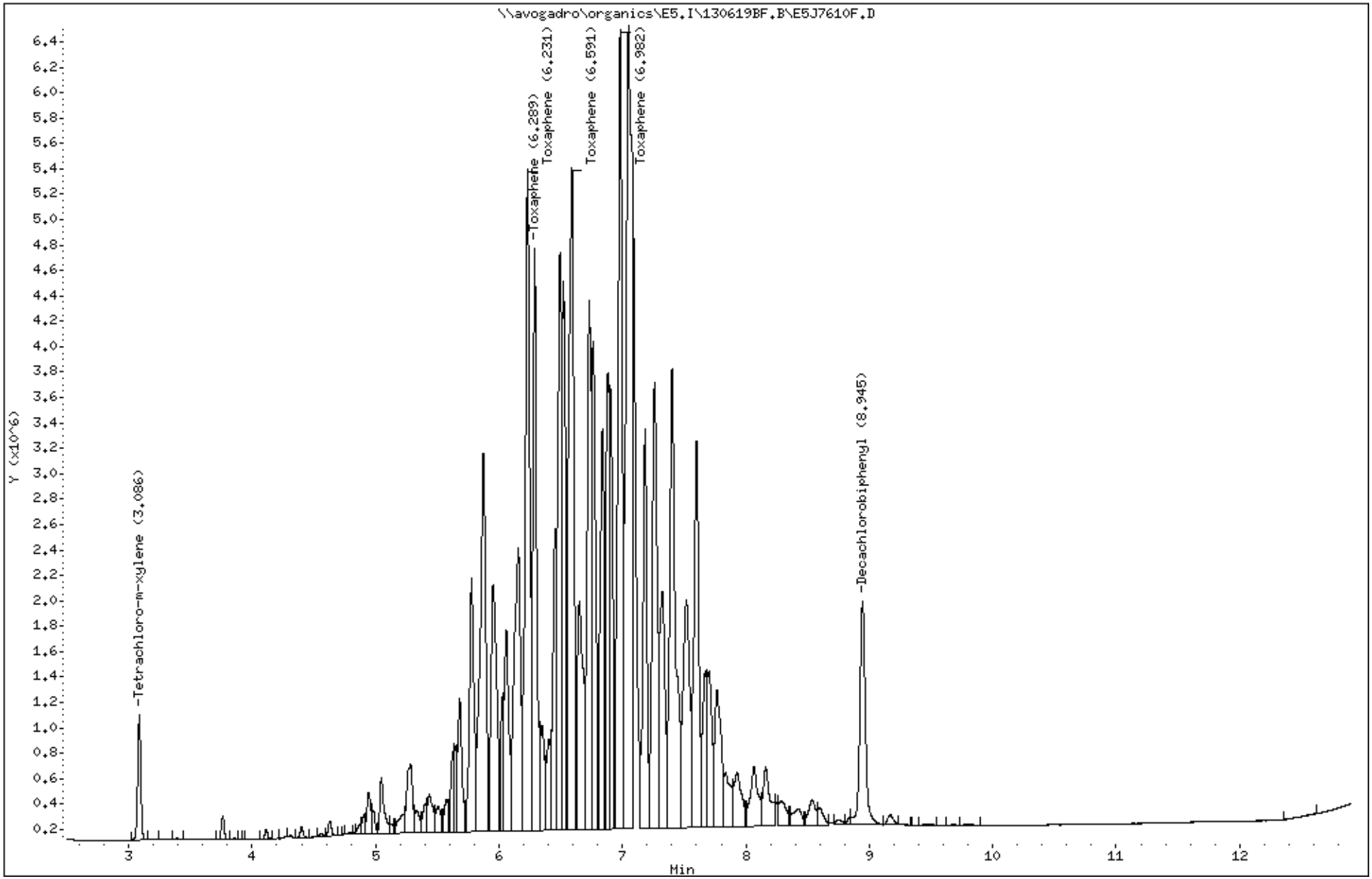
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.085	3.085	0.000	1737633	0.04000	0.038			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
8.945	8.944	0.001	5524231	0.08000	0.086			(aM)M3 GMA 06/25
28 Toxaphene					CAS #: 8001-35-2			
6.230	6.230	0.000	5208469	4.00000	4.3	80.00- 120.00	100.00	(aM)M3 GMA 06/25
6.289	6.289	0.000	4576395	4.00000	4.2	67.86- 107.86	87.86	
6.590	6.590	0.000	5214215	4.00000	4.1	80.11- 120.11	100.11	
6.982	6.982	0.000	6294421	4.00000	4.1	100.85- 140.85	120.85	
Average of Peak Amounts =					4.17500			

QC Flag Legend

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

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7610F.D
Date : 19-JUN-2013 15:53
Client ID: TOXAPH4J5
Instrument: E5.i
Sample Info: TOXAPH4J5,TOXAPH4J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7610R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7610R.D
Lab Smp Id: TOXAPH4J5 Client Smp ID: TOXAPH4J5
Inj Date : 19-JUN-2013 15:53
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH4J5,TOXAPH4J5,,somtox.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 15:53 Cal File: E5J7610R.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

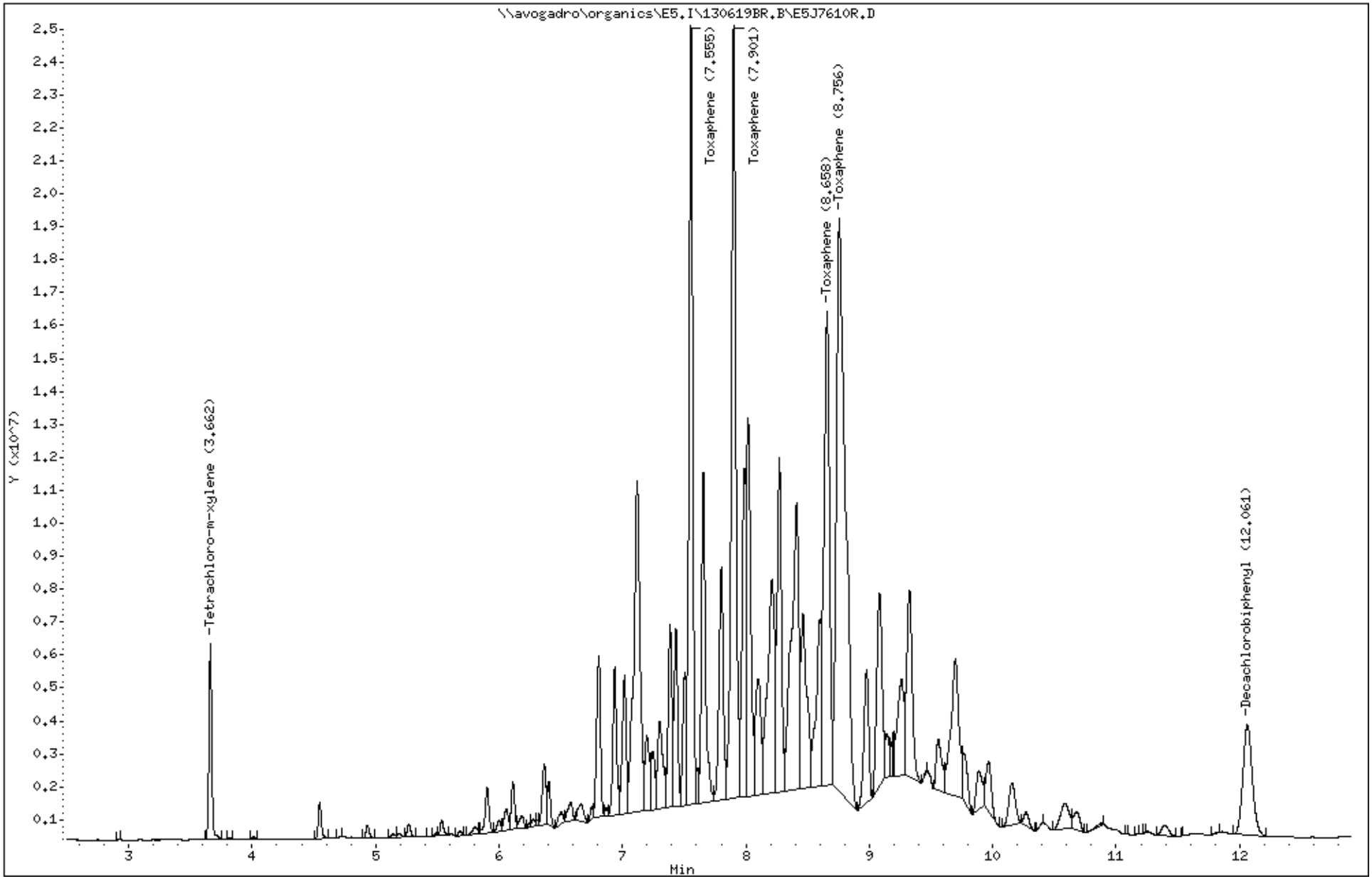
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.661	3.661	0.000	5935473	0.04000				(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
12.060	12.065	-0.005	17781985	0.08000				(a)
28 Toxaphene						CAS #: 8001-35-2		
7.555	7.555	0.000	23627825	4.00000	4.5	80.00- 120.00	100.00	(a)
7.900	7.900	0.000	23454212	4.00000	5.0	78.33- 118.33	99.27	
8.657	8.656	0.001	14384560	4.00000	4.6	47.76- 87.76	60.88	
8.755	8.756	-0.001	17410149	4.00000	5.0	54.12- 94.12	73.68	
Average of Peak Amounts =				4.77500				

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7610R.D
Date : 19-JUN-2013 15:53
Client ID: TOXAPH4J5
Instrument: E5.i
Sample Info: TOXAPH4J5,TOXAPH4J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7611F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7611F.D
Lab Smp Id: TOXAPH5J5 Client Smp ID: TOXAPH5J5
Inj Date : 19-JUN-2013 16:11
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH5J5,TOXAPH5J5,,somtox.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

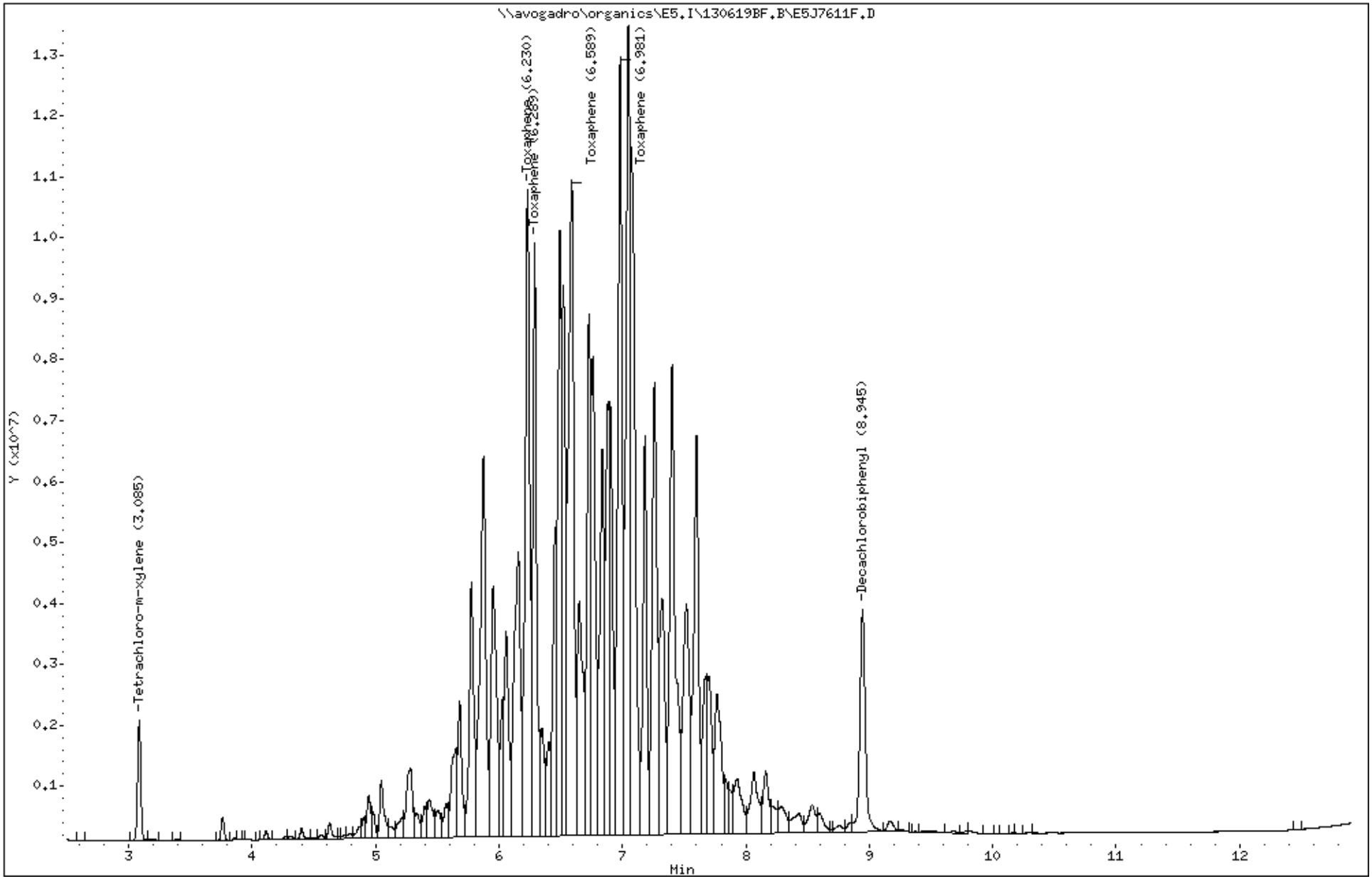
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.085	3.085	0.000	3532793	0.08000	0.078			
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
8.945	8.944	0.001	11543436	0.16000	0.18			(A)
28 Toxaphene						CAS #: 8001-35-2		
6.230	6.230	0.000	10618300	8.00000	9.9	80.00- 120.00	100.00	(A)
6.288	6.289	-0.001	9737974	8.00000	10	67.86- 107.86	91.71	
6.589	6.590	-0.001	10758696	8.00000	9.8	80.11- 120.11	101.32	
6.981	6.982	-0.001	12758758	8.00000	9.2	100.85- 140.85	120.16	
Average of Peak Amounts =					9.72500			

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7611F.D
Date : 19-JUN-2013 16:11
Client ID: TOXAPH5J5
Instrument: E5.i
Sample Info: TOXAPH5J5,TOXAPH5J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7611R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7611R.D
Lab Smp Id: TOXAPH5J5 Client Smp ID: TOXAPH5J5
Inj Date : 19-JUN-2013 16:11
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH5J5,TOXAPH5J5,,somtox.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 16:11 Cal File: E5J7611R.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

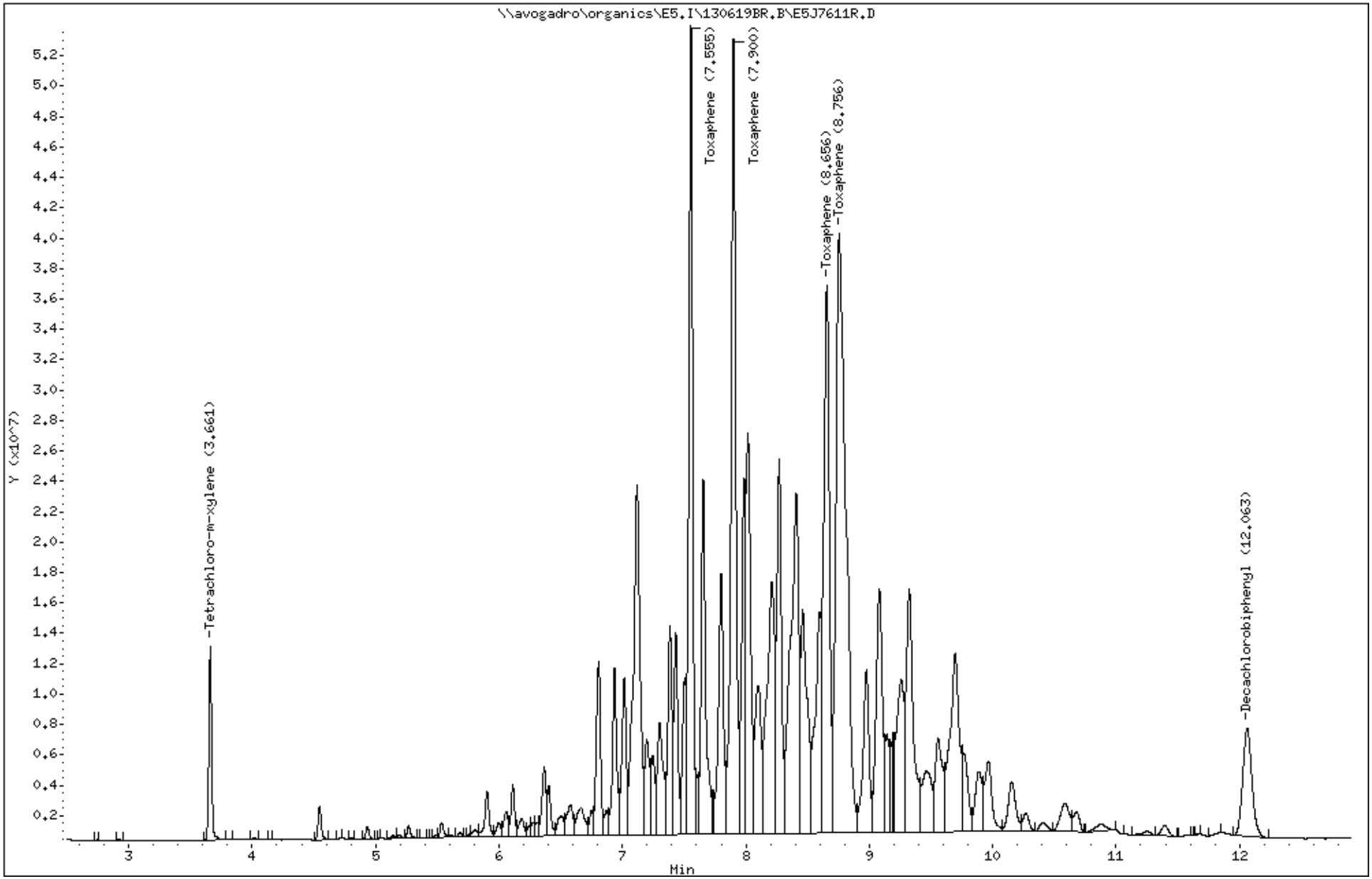
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.661	3.661	0.000	12782737	0.08000				(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
12.062	12.065	-0.003	36835974	0.16000				(a)
28 Toxaphene					CAS #: 8001-35-2			
7.555	7.555	0.000	53215648	8.00000	9.9	80.00- 120.00	100.00	(A)
7.900	7.900	0.000	52326156	8.00000	10	78.33- 118.33	98.33	
8.656	8.656	0.000	36057132	8.00000	11	47.76- 87.76	67.76	
8.756	8.756	0.000	39444876	8.00000	11	54.12- 94.12	74.12	
Average of Peak Amounts =					10.4750			

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.

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7611R.D
Date : 19-JUN-2013 16:11
Client ID: TOXAPH5J5
Instrument: E5.i
Sample Info: TOXAPH5J5,TOXAPH5J5,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7612F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7612F.D
Lab Smp Id: TC3J5 Client Smp ID: TC3J5
Inj Date : 19-JUN-2013 16:28
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : TC3J5,TC3J5,,CHLORDANE.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: CHLORDANE.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

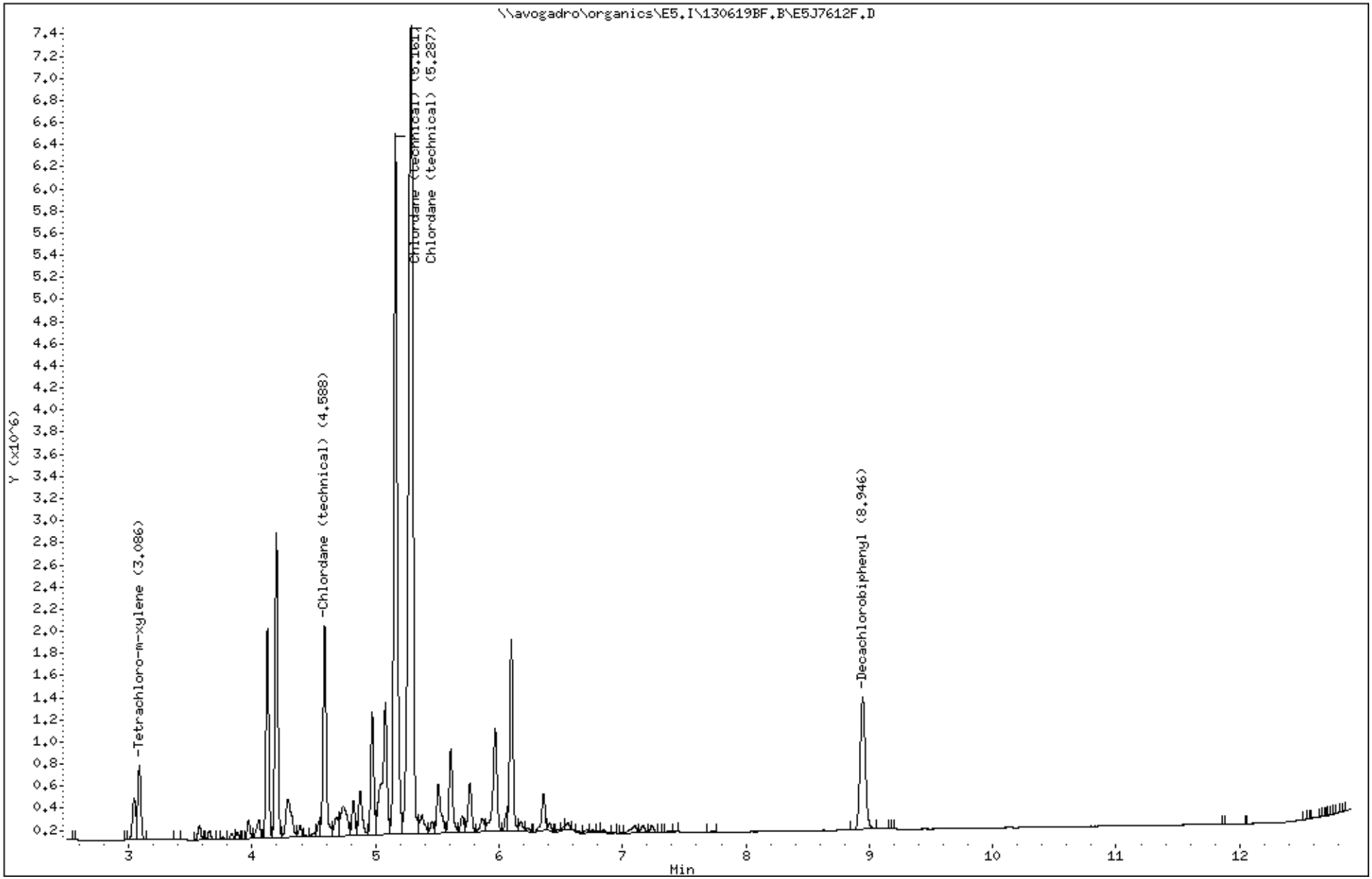
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.086	3.085	0.001	1190595	0.02000			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3		
8.946	8.944	0.002	3517985	0.04000			(a)
29 Chlordane (technical)					CAS #: 12789-03-6		
4.588	4.588	0.000	3422180	1.00000		80.00- 120.00	100.00(a)
5.161	5.161	0.000	11941506	1.00000		328.94- 368.94	348.94
5.287	5.287	0.000	18551189	1.00000		522.09- 562.09	542.09

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7612F.D
Date : 19-JUN-2013 16:28
Client ID: TC3J5
Instrument: E5.i
Sample Info: TC3J5,TC3J5,,CHLORDANE,sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7612R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7612R.D
Lab Smp Id: TC3J5 Client Smp ID: TC3J5
Inj Date : 19-JUN-2013 16:28
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : TC3J5,TC3J5,,CHLORDANE.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 16:28 Cal File: E5J7612R.D
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: CHLORDANE.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

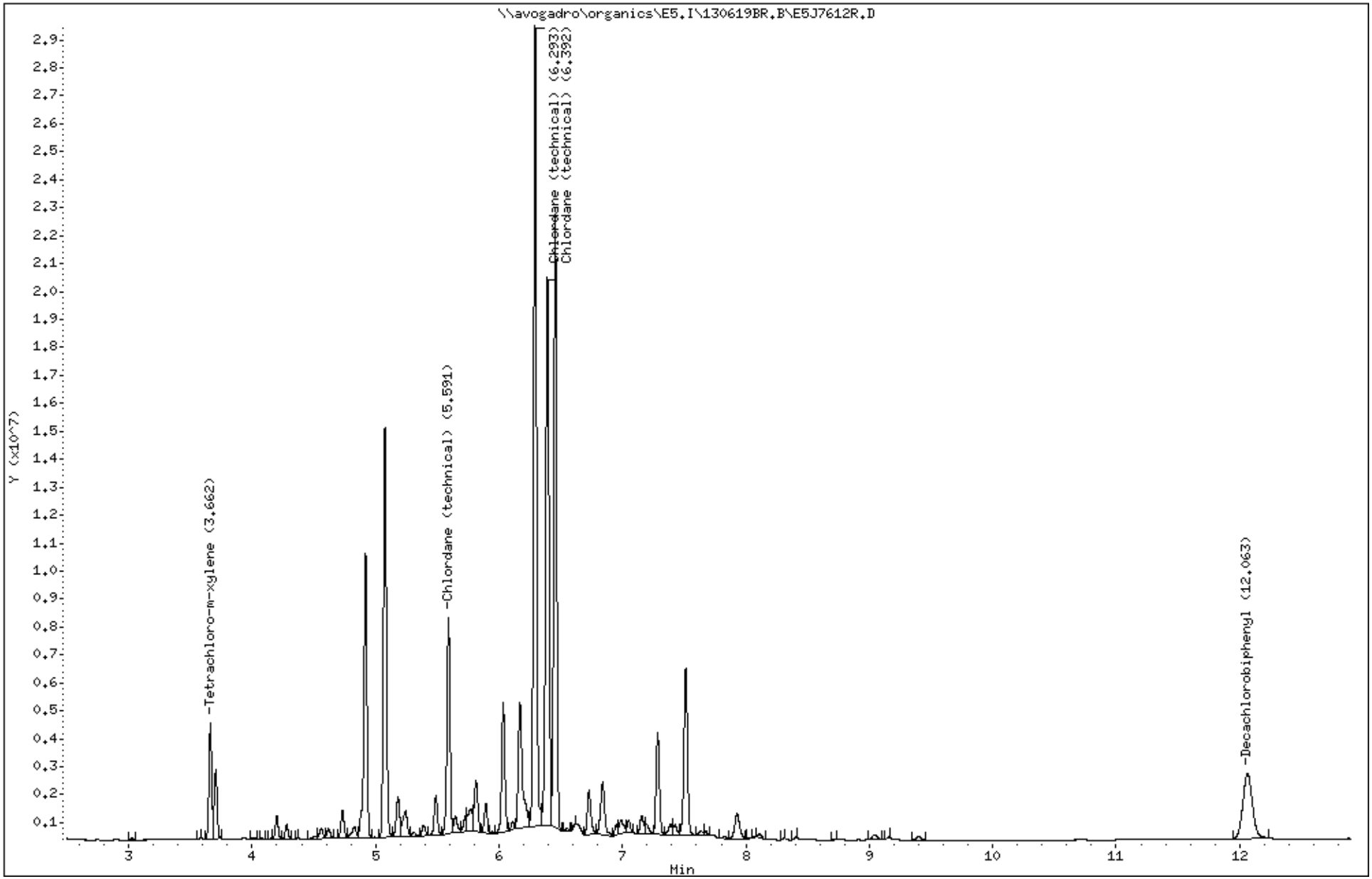
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.662	3.661	0.001	4128636	0.02000			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3		
12.063	12.065	-0.002	12585175	0.04000			(a)
29 Chlordane (technical)					CAS #: 12789-03-6		
5.591	5.591	0.000	7738477	1.00000		80.00- 120.00	100.00(a)
6.293	6.293	0.000	28662809	1.00000		350.39- 390.39	370.39
6.392	6.392	0.000	19620657	1.00000		233.55- 273.55	253.55

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7612R.D
Date : 19-JUN-2013 16:28
Client ID: TC3J5
Instrument: E5.i
Sample Info: TC3J5,TC3J5,,CHLORDANE,sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7614F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7614F.D
Lab Smp Id: INDC1J5 Client Smp ID: INDC1J5
Inj Date : 19-JUN-2013 17:04
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC1J5,INDC1J5,,indA.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 11 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.088	3.085	0.003	223789	0.00500	0.0050		(a)
6 alpha-BHC					CAS #: 319-84-6		
3.530	3.527	0.003	231062	0.00500	0.0047		(a)
7 gamma-BHC (Lindane)					CAS #: 58-89-9		
3.790	3.786	0.004	349833	0.00500	0.0048		(a)
10 beta-BHC					CAS #: 319-85-7		
3.858	3.855	0.003	146549	0.00500	0.0049		(a)
11 delta-BHC					CAS #: 319-86-8		
4.012	4.008	0.004	331797	0.00500	0.0046		(a)
8 Heptachlor					CAS #: 76-44-8		
4.199	4.195	0.004	366825	0.00500	0.0049		(a)
9 Aldrin					CAS #: 309-00-2		
4.470	4.465	0.005	335290	0.00500	0.0049		(a)

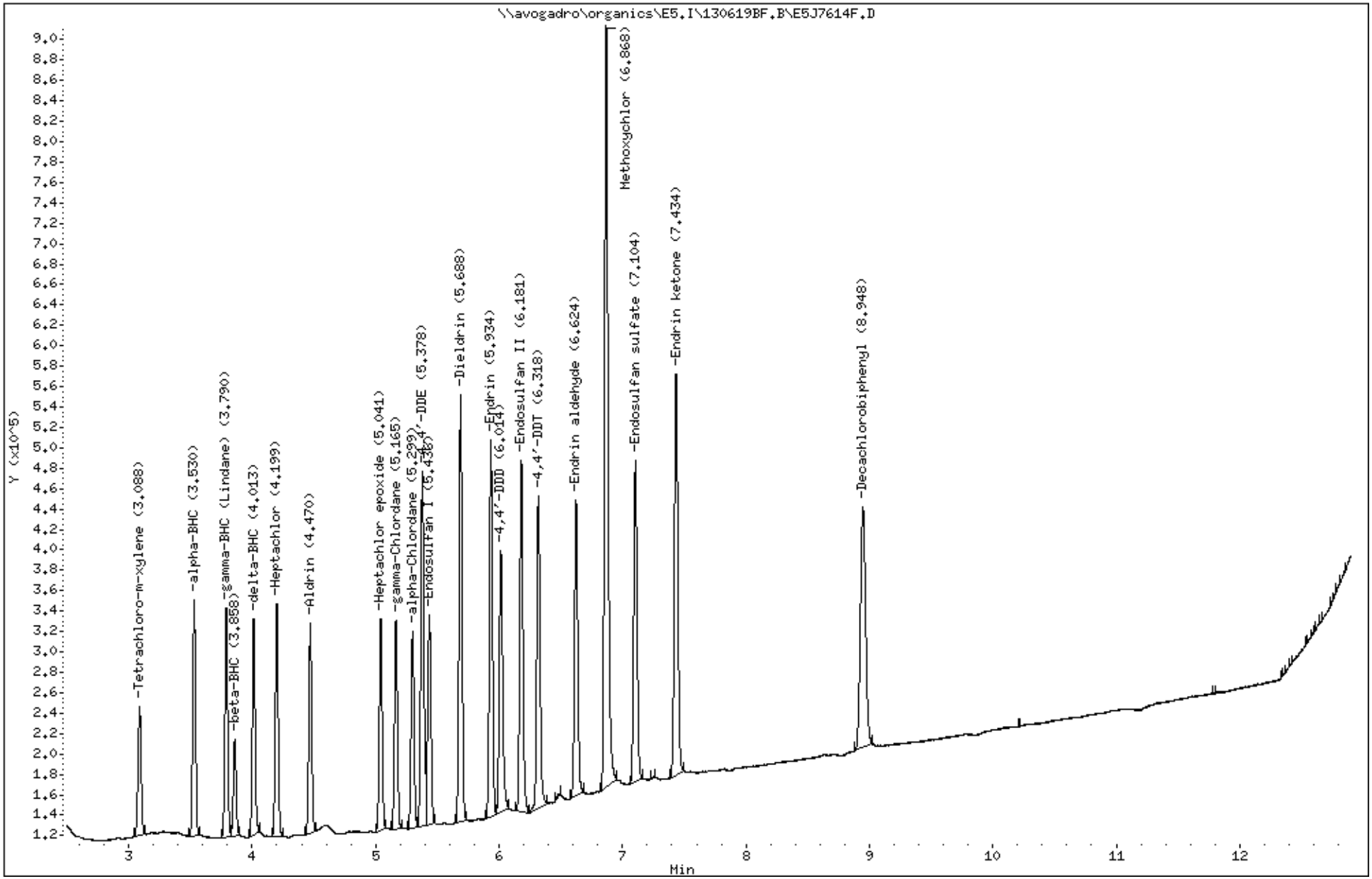
Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7614F.D
Report Date: 25-Jun-2013 10:49

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
5.040	5.035	0.005	335645	0.00500	0.0050			(a)
16 gamma-Chlordane						CAS #: 5103-74-2		
5.165	5.158	0.007	203702	0.00500	0.0050			(a)
17 alpha-Chlordane						CAS #: 5103-71-9		
5.299	5.292	0.007	321978	0.00500	0.0050			(a)
18 4,4'-DDE						CAS #: 72-55-9		
5.378	5.371	0.007	348380	0.01000	0.0095			(a)
15 Endosulfan I						CAS #: 959-98-8		
5.435	5.429	0.006	206308	0.00500	0.0052			(a)
19 Dieldrin						CAS #: 60-57-1		
5.688	5.680	0.008	702093	0.01000	0.0098			(a)
20 Endrin						CAS #: 72-20-8		
5.934	5.926	0.008	369321	0.01000	0.0098			(a)
21 4,4'-DDD						CAS #: 72-54-8		
6.014	6.004	0.010	493204	0.01000	0.0098			(a)
22 Endosulfan II						CAS #: 33213-65-9		
6.180	6.169	0.011	618437	0.01000	0.011			(a)
23 4,4'-DDT						CAS #: 50-29-3		
6.318	6.310	0.008	567840	0.01000	0.010			(a)
24 Endrin aldehyde						CAS #: 7421-93-4		
6.624	6.616	0.008	288934	0.01000	0.010			(a)
26 Methoxychlor						CAS #: 72-43-5		
6.868	6.860	0.008	1480917	0.05000	0.051			(a)
25 Endosulfan sulfate						CAS #: 1031-07-8		
7.104	7.096	0.008	589074	0.01000	0.010			(a)
27 Endrin ketone						CAS #: 53494-70-5		
7.434	7.427	0.007	393442	0.01000	0.010			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
8.947	8.944	0.003	689006	0.01000	0.011			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7614F.D
Date : 19-JUN-2013 17:04
Client ID: INDC1J5
Instrument: E5.i
Sample Info: INDC1J5,INDC1J5,,indA.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7614R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7614R.D
Lab Smp Id: INDC1J5 Client Smp ID: INDC1J5
Inj Date : 19-JUN-2013 17:04
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC1J5,INDC1J5,,indA.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 17:04 Cal File: E5J7614R.D
Als bottle: 11 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

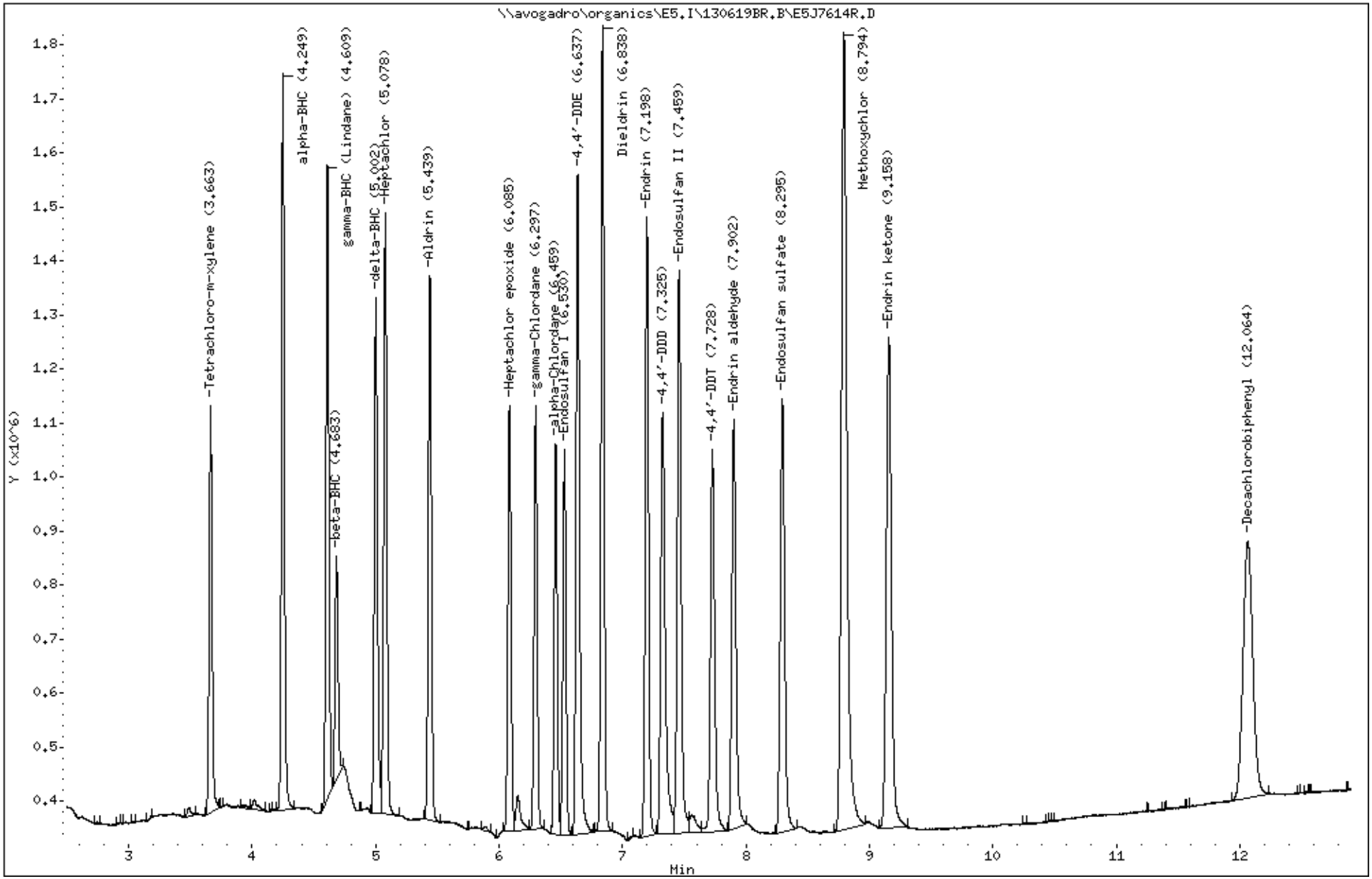
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.663	3.661	0.002	755018	0.00500	0.0050			(a)
6 alpha-BHC						CAS #: 319-84-6		
4.249	4.246	0.003	2196856	0.00500	0.0049			(a)
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
4.609	4.606	0.003	1880735	0.00500	0.0048			(a)
10 beta-BHC						CAS #: 319-85-7		
4.682	4.679	0.003	686971	0.00500	0.0042			(a)
11 delta-BHC						CAS #: 319-86-8		
5.001	4.997	0.004	1686536	0.00500	0.0049			(a)
8 Heptachlor						CAS #: 76-44-8		
5.078	5.075	0.003	1997795	0.00500	0.0050			(a)
9 Aldrin						CAS #: 309-00-2		
5.439	5.435	0.004	1798504	0.00500	0.0051			(a)

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
6.085	6.080	0.005	1428813	0.00500	0.0051			(a)
16 gamma-Chlordane						CAS #: 5103-74-2		
6.296	6.290	0.006	1372728	0.00500	0.0050			(a)
17 alpha-Chlordane						CAS #: 5103-71-9		
6.459	6.453	0.006	1258157	0.00500	0.0051			(a)
18 4,4'-DDE						CAS #: 72-55-9		
6.636	6.630	0.006	2474314	0.01000	0.0098			(a)
15 Endosulfan I						CAS #: 959-98-8		
6.530	6.525	0.005	713221	0.00500	0.0050			(a)
19 Dieldrin						CAS #: 60-57-1		
6.838	6.834	0.004	2650542	0.01000	0.0098			(a)
20 Endrin						CAS #: 72-20-8		
7.198	7.193	0.005	1145901	0.01000	0.0095			(a)
21 4,4'-DDD						CAS #: 72-54-8		
7.325	7.317	0.008	2008818	0.01000	0.0099			(a)
22 Endosulfan II						CAS #: 33213-65-9		
7.459	7.452	0.007	2297154	0.01000	0.0098			(a)
23 4,4'-DDT						CAS #: 50-29-3		
7.728	7.724	0.004	1695199	0.01000	0.0091			(a)
24 Endrin aldehyde						CAS #: 7421-93-4		
7.901	7.896	0.005	757840	0.01000	0.0095			(a)
26 Methoxychlor						CAS #: 72-43-5		
8.794	8.789	0.005	4641787	0.05000	0.045			(a)
25 Endosulfan sulfate						CAS #: 1031-07-8		
8.295	8.290	0.005	1997558	0.01000	0.010			(a)
27 Endrin ketone						CAS #: 53494-70-5		
9.157	9.153	0.004	908800	0.01000	0.0099			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
12.064	12.065	-0.001	2636256	0.01000	0.011			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7614R.D
Date : 19-JUN-2013 17:04
Client ID: INDC1J5
Instrument: E5.i
Sample Info: INDC1J5,INDC1J5,,indA.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7615F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7615F.D
Lab Smp Id: INDC2J5 Client Smp ID: INDC2J5
Inj Date : 19-JUN-2013 17:22
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC2J5,INDC2J5,,indA.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 12 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.087	3.085	0.002	449637	0.01000	0.0100			(a)
6 alpha-BHC						CAS #: 319-84-6		
3.529	3.527	0.002	473825	0.01000	0.0097			(a)
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
3.788	3.786	0.002	718164	0.01000	0.0098			(a)
10 beta-BHC						CAS #: 319-85-7		
3.857	3.855	0.002	303351	0.01000	0.010			(a)
11 delta-BHC						CAS #: 319-86-8		
4.011	4.008	0.003	713870	0.01000	0.0098			(a)
8 Heptachlor						CAS #: 76-44-8		
4.198	4.195	0.003	738869	0.01000	0.0100			(a)
9 Aldrin						CAS #: 309-00-2		
4.469	4.465	0.004	681671	0.01000	0.0099			(a)

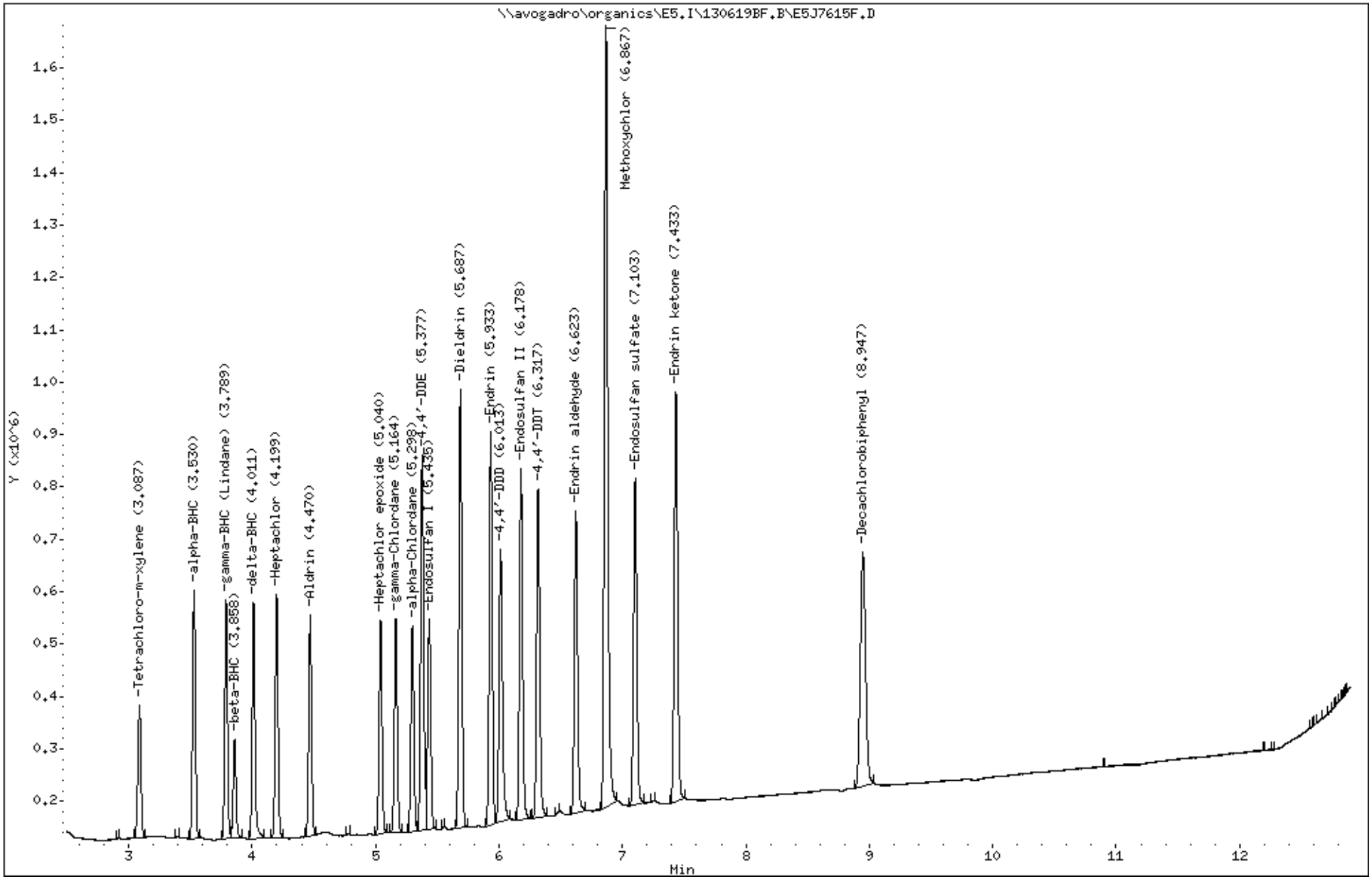
Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7615F.D
Report Date: 25-Jun-2013 10:49

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide					CAS #: 1024-57-3			
5.040	5.035	0.005	671468	0.01000	0.010			(a)
16 gamma-Chlordane					CAS #: 5103-74-2			
5.163	5.158	0.005	407498	0.01000	0.0100			(a)
17 alpha-Chlordane					CAS #: 5103-71-9			
5.297	5.292	0.005	649475	0.01000	0.010			(a)
18 4,4'-DDE					CAS #: 72-55-9			
5.377	5.371	0.006	716125	0.02000	0.020			(a)
15 Endosulfan I					CAS #: 959-98-8			
5.434	5.429	0.005	402798	0.01000	0.010			(a)
19 Dieldrin					CAS #: 60-57-1			
5.687	5.680	0.007	1408380	0.02000	0.020			(a)
20 Endrin					CAS #: 72-20-8			
5.932	5.926	0.006	749567	0.02000	0.020			(a)
21 4,4'-DDD					CAS #: 72-54-8			
6.012	6.004	0.008	1004700	0.02000	0.020			(a)
22 Endosulfan II					CAS #: 33213-65-9			
6.177	6.169	0.008	1188970	0.02000	0.020			(a)
23 4,4'-DDT					CAS #: 50-29-3			
6.317	6.310	0.007	1116494	0.02000	0.020			(a)
24 Endrin aldehyde					CAS #: 7421-93-4			
6.622	6.616	0.006	574632	0.02000	0.020			(a)
26 Methoxychlor					CAS #: 72-43-5			
6.867	6.860	0.007	2918099	0.10000	0.100			(a)
25 Endosulfan sulfate					CAS #: 1031-07-8			
7.102	7.096	0.006	1157648	0.02000	0.020			(a)
27 Endrin ketone					CAS #: 53494-70-5			
7.432	7.427	0.005	780050	0.02000	0.020			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
8.947	8.944	0.003	1314118	0.02000	0.020			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.i\130619BF.B\E5J7615F.D
Date : 19-JUN-2013 17:22
Client ID: INDC2J5
Instrument: E5.i
Sample Info: INDC2J5,INDC2J5,,indA,sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7615R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7615R.D
Lab Smp Id: INDC2J5 Client Smp ID: INDC2J5
Inj Date : 19-JUN-2013 17:22
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC2J5,INDC2J5,,indA.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 17:22 Cal File: E5J7615R.D
Als bottle: 12 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.662	3.661	0.001	1493538	0.01000	0.0099			(a)
6 alpha-BHC						CAS #: 319-84-6		
4.248	4.246	0.002	4376271	0.01000	0.0098			(a)
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
4.608	4.606	0.002	3874627	0.01000	0.0100			(a)
10 beta-BHC						CAS #: 319-85-7		
4.682	4.679	0.003	1996123	0.01000	0.012			(a)
11 delta-BHC						CAS #: 319-86-8		
5.000	4.997	0.003	3309293	0.01000	0.0096			(a)
8 Heptachlor						CAS #: 76-44-8		
5.077	5.075	0.002	3898149	0.01000	0.0098			(a)
9 Aldrin						CAS #: 309-00-2		
5.439	5.435	0.004	3504537	0.01000	0.0099			(a)

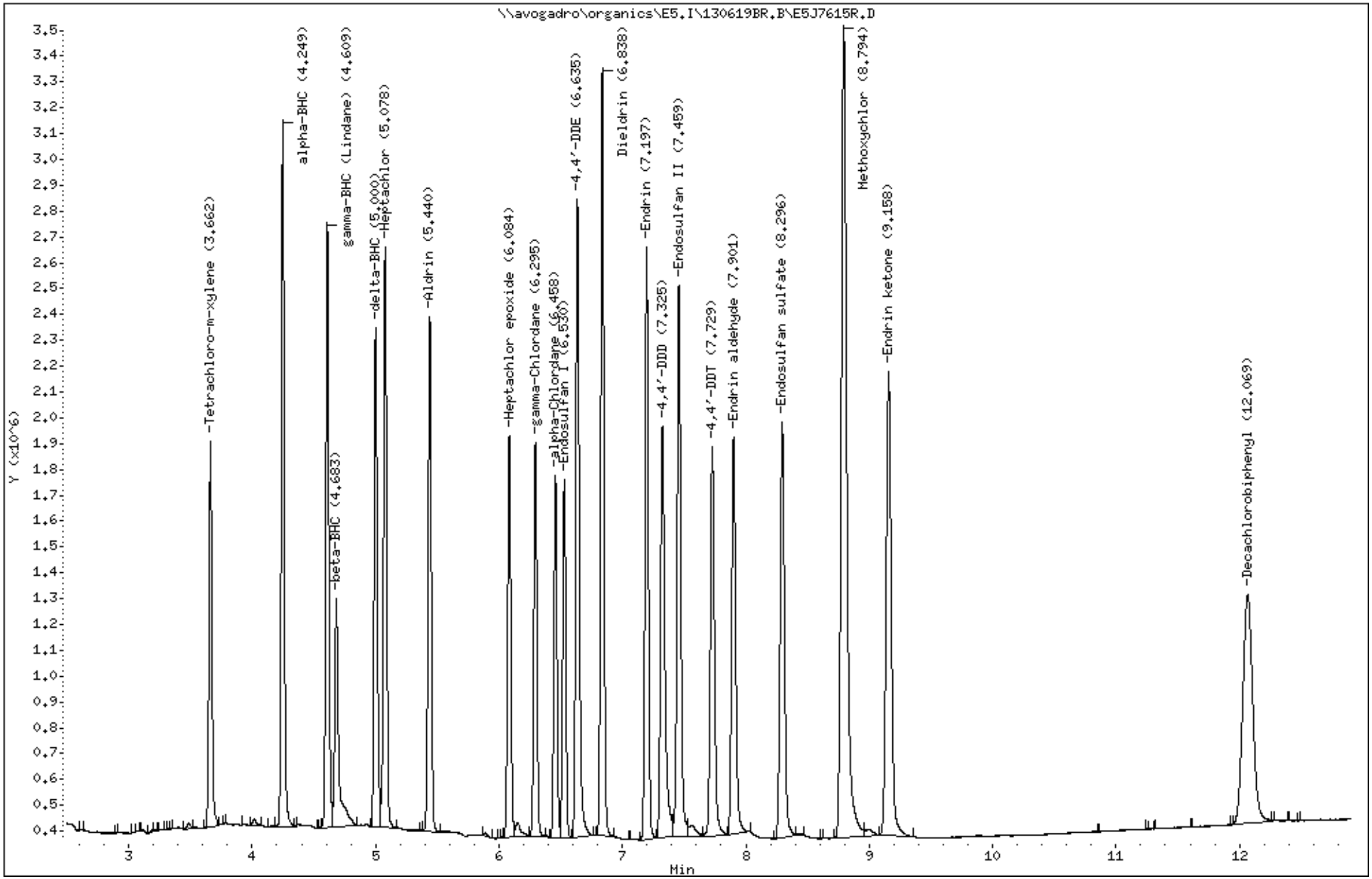
Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7615R.D
Report Date: 25-Jun-2013 10:49

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
6.083	6.080	0.003	2801013	0.01000	0.0100			(a)
16 gamma-Chlordane						CAS #: 5103-74-2		
6.295	6.290	0.005	2690609	0.01000	0.0099			(a)
17 alpha-Chlordane						CAS #: 5103-71-9		
6.457	6.453	0.004	2438494	0.01000	0.0099			(a)
18 4,4'-DDE						CAS #: 72-55-9		
6.635	6.630	0.005	4902770	0.02000	0.019			(a)
15 Endosulfan I						CAS #: 959-98-8		
6.529	6.525	0.004	1388381	0.01000	0.0097			(a)
19 Dieldrin						CAS #: 60-57-1		
6.837	6.834	0.003	5260782	0.02000	0.019			(a)
20 Endrin						CAS #: 72-20-8		
7.197	7.193	0.004	2294079	0.02000	0.019			(a)
21 4,4'-DDD						CAS #: 72-54-8		
7.324	7.317	0.007	3919572	0.02000	0.019			(a)
22 Endosulfan II						CAS #: 33213-65-9		
7.458	7.452	0.006	4510233	0.02000	0.019			(a)
23 4,4'-DDT						CAS #: 50-29-3		
7.728	7.724	0.004	3491267	0.02000	0.019			(a)
24 Endrin aldehyde						CAS #: 7421-93-4		
7.901	7.896	0.005	1533964	0.02000	0.019			(a)
26 Methoxychlor						CAS #: 72-43-5		
8.793	8.789	0.004	9701328	0.10000	0.094			(a)
25 Endosulfan sulfate						CAS #: 1031-07-8		
8.296	8.290	0.006	3923872	0.02000	0.020			(a)
27 Endrin ketone						CAS #: 53494-70-5		
9.157	9.153	0.004	1799476	0.02000	0.020			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
12.068	12.065	0.003	4932397	0.02000	0.021			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7615R.D
Date : 19-JUN-2013 17:22
Client ID: INDC2J5
Instrument: E5.i
Sample Info: INDC2J5,INDC2J5,,indA.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7616F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7616F.D
Lab Smp Id: INDC3J5 Client Smp ID: INDC3J5
Inj Date : 19-JUN-2013 17:39
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC3J5,INDC3J5,,indA.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 13 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

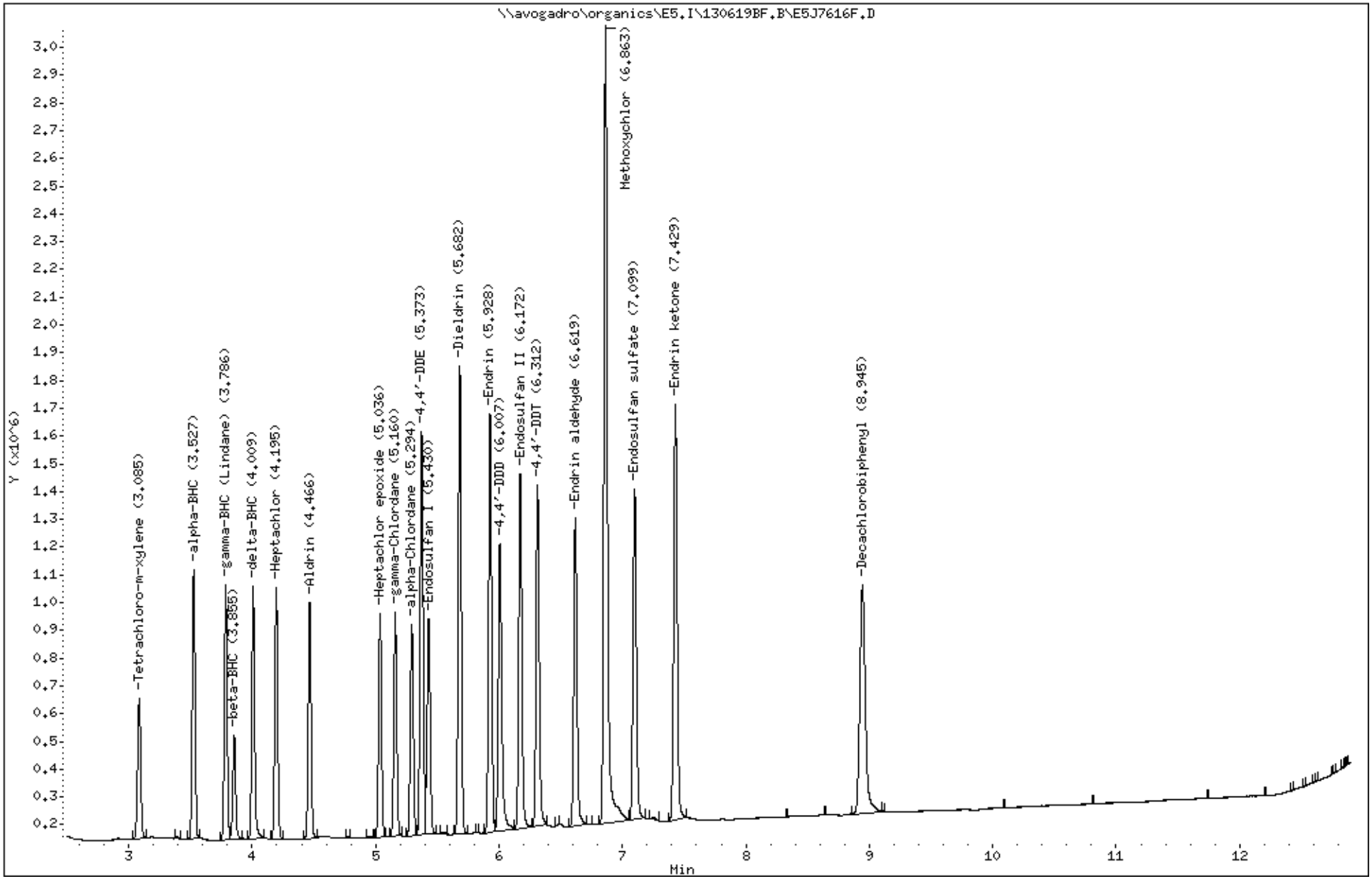
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.084	3.085	-0.001	887053	0.02000	0.020			(a)
6 alpha-BHC						CAS #: 319-84-6		
3.527	3.527	0.000	967101	0.02000	0.020			(a)
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
3.786	3.786	0.000	1445815	0.02000	0.020			(a)
10 beta-BHC						CAS #: 319-85-7		
3.854	3.855	-0.001	595560	0.02000	0.020			(a)
11 delta-BHC						CAS #: 319-86-8		
4.008	4.008	0.000	1447783	0.02000	0.020			(a)
8 Heptachlor						CAS #: 76-44-8		
4.195	4.195	0.000	1468062	0.02000	0.020			(a)
9 Aldrin						CAS #: 309-00-2		
4.466	4.465	0.001	1371471	0.02000	0.020			(a)

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide					CAS #: 1024-57-3			
5.036	5.035	0.001	1319126	0.02000	0.020			(a)
16 gamma-Chlordane					CAS #: 5103-74-2			
5.159	5.158	0.001	804790	0.02000	0.020			(a)
17 alpha-Chlordane					CAS #: 5103-71-9			
5.293	5.292	0.001	1280513	0.02000	0.020			(a)
18 4,4'-DDE					CAS #: 72-55-9			
5.372	5.371	0.001	1450113	0.04000	0.040			(a)
15 Endosulfan I					CAS #: 959-98-8			
5.430	5.429	0.001	776807	0.02000	0.020			(a)
19 Dieldrin					CAS #: 60-57-1			
5.682	5.680	0.002	2835486	0.04000	0.040			(a)
20 Endrin					CAS #: 72-20-8			
5.927	5.926	0.001	1509481	0.04000	0.040			(a)
21 4,4'-DDD					CAS #: 72-54-8			
6.007	6.004	0.003	2039585	0.04000	0.040			(a)
22 Endosulfan II					CAS #: 33213-65-9			
6.172	6.169	0.003	2278747	0.04000	0.039			(a)
23 4,4'-DDT					CAS #: 50-29-3			
6.312	6.310	0.002	2194132	0.04000	0.039			(a)
24 Endrin aldehyde					CAS #: 7421-93-4			
6.618	6.616	0.002	1107728	0.04000	0.039			(a)
26 Methoxychlor					CAS #: 72-43-5			
6.862	6.860	0.002	5828950	0.20000	0.20			(a)
25 Endosulfan sulfate					CAS #: 1031-07-8			
7.098	7.096	0.002	2249082	0.04000	0.039			(a)
27 Endrin ketone					CAS #: 53494-70-5			
7.428	7.427	0.001	1495358	0.04000	0.039			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
8.944	8.944	0.000	2562844	0.04000	0.040			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7616F.D
Date : 19-JUN-2013 17:39
Client ID: INDC3J5
Instrument: E5.i
Sample Info: INDC3J5,INDC3J5,,indA.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7616R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7616R.D
Lab Smp Id: INDC3J5 Client Smp ID: INDC3J5
Inj Date : 19-JUN-2013 17:39
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC3J5,INDC3J5,,indA.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 17:39 Cal File: E5J7616R.D
Als bottle: 13 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

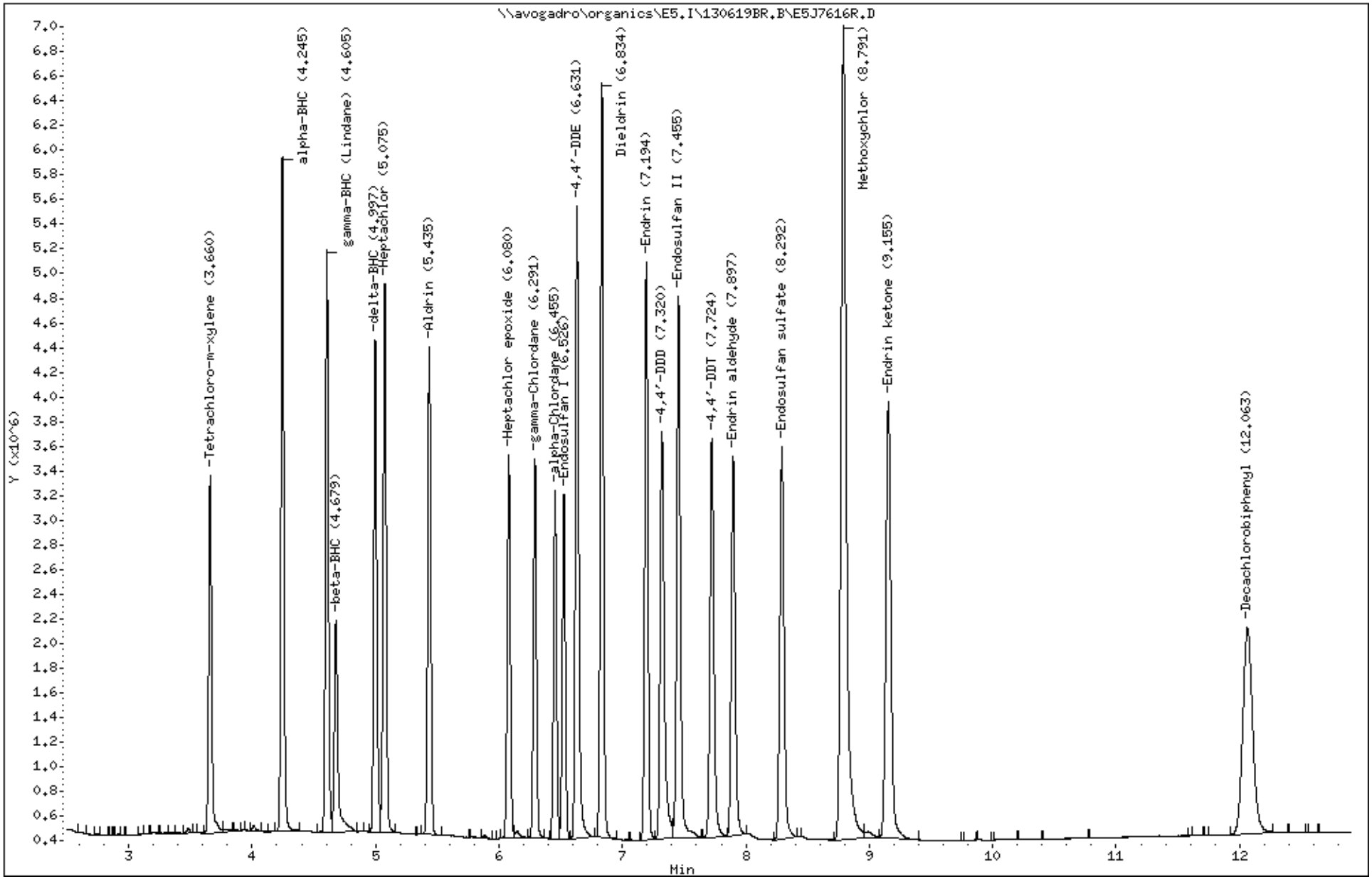
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.659	3.661	-0.002	2906249	0.02000	0.019			(a)
6 alpha-BHC					CAS #: 319-84-6			
4.245	4.246	-0.001	8656810	0.02000	0.019			(a)
7 gamma-BHC (Lindane)					CAS #: 58-89-9			
4.605	4.606	-0.001	7617894	0.02000	0.020			(a)
10 beta-BHC					CAS #: 319-85-7			
4.678	4.679	-0.001	3470394	0.02000	0.021			(a)
11 delta-BHC					CAS #: 319-86-8			
4.997	4.997	0.000	6759774	0.02000	0.020			(a)
8 Heptachlor					CAS #: 76-44-8			
5.074	5.075	-0.001	7727994	0.02000	0.019			(a)
9 Aldrin					CAS #: 309-00-2			
5.435	5.435	0.000	6888517	0.02000	0.019			(a)

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide					CAS #: 1024-57-3			
6.079	6.080	-0.001	5492795	0.02000	0.020			(a)
16 gamma-Chlordane					CAS #: 5103-74-2			
6.291	6.290	0.001	5299610	0.02000	0.020			(a)
17 alpha-Chlordane					CAS #: 5103-71-9			
6.454	6.453	0.001	4826991	0.02000	0.020			(a)
18 4,4'-DDE					CAS #: 72-55-9			
6.631	6.630	0.001	9861279	0.04000	0.039			(a)
15 Endosulfan I					CAS #: 959-98-8			
6.526	6.525	0.001	2798468	0.02000	0.020			(a)
19 Dieldrin					CAS #: 60-57-1			
6.833	6.834	-0.001	10591373	0.04000	0.039			(a)
20 Endrin					CAS #: 72-20-8			
7.193	7.193	0.000	4695266	0.04000	0.039			(a)
21 4,4'-DDD					CAS #: 72-54-8			
7.319	7.317	0.002	7805196	0.04000	0.038			(a)
22 Endosulfan II					CAS #: 33213-65-9			
7.454	7.452	0.002	9258551	0.04000	0.039			(a)
23 4,4'-DDT					CAS #: 50-29-3			
7.723	7.724	-0.001	7241162	0.04000	0.039			(a)
24 Endrin aldehyde					CAS #: 7421-93-4			
7.897	7.896	0.001	3075480	0.04000	0.039			(a)
26 Methoxychlor					CAS #: 72-43-5			
8.791	8.789	0.002	20117414	0.20000	0.19			(a)
25 Endosulfan sulfate					CAS #: 1031-07-8			
8.292	8.290	0.002	7709113	0.04000	0.039			(a)
27 Endrin ketone					CAS #: 53494-70-5			
9.155	9.153	0.002	3548164	0.04000	0.039			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
12.062	12.065	-0.003	9209723	0.04000	0.039			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7616R.D
Date : 19-JUN-2013 17:39
Client ID: INDC3J5
Instrument: E5.i
Sample Info: INDC3J5,INDC3J5,,indA.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7617F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7617F.D
Lab Smp Id: INDC4J5 Client Smp ID: INDC4J5
Inj Date : 19-JUN-2013 17:57
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC4J5,INDC4J5,,indA.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.084	3.085	-0.001	1807680	0.04000	0.040		(a)
6 alpha-BHC					CAS #: 319-84-6		
3.527	3.527	0.000	1998589	0.04000	0.041		(a)
7 gamma-BHC (Lindane)					CAS #: 58-89-9		
3.786	3.786	0.000	2953038	0.04000	0.040		(a)
10 beta-BHC					CAS #: 319-85-7		
3.854	3.855	-0.001	1178138	0.04000	0.039		(a)
11 delta-BHC					CAS #: 319-86-8		
4.007	4.008	-0.001	2969976	0.04000	0.041		(a)
8 Heptachlor					CAS #: 76-44-8		
4.194	4.195	-0.001	2959324	0.04000	0.040		(a)
9 Aldrin					CAS #: 309-00-2		
4.464	4.465	-0.001	2777134	0.04000	0.040		(a)

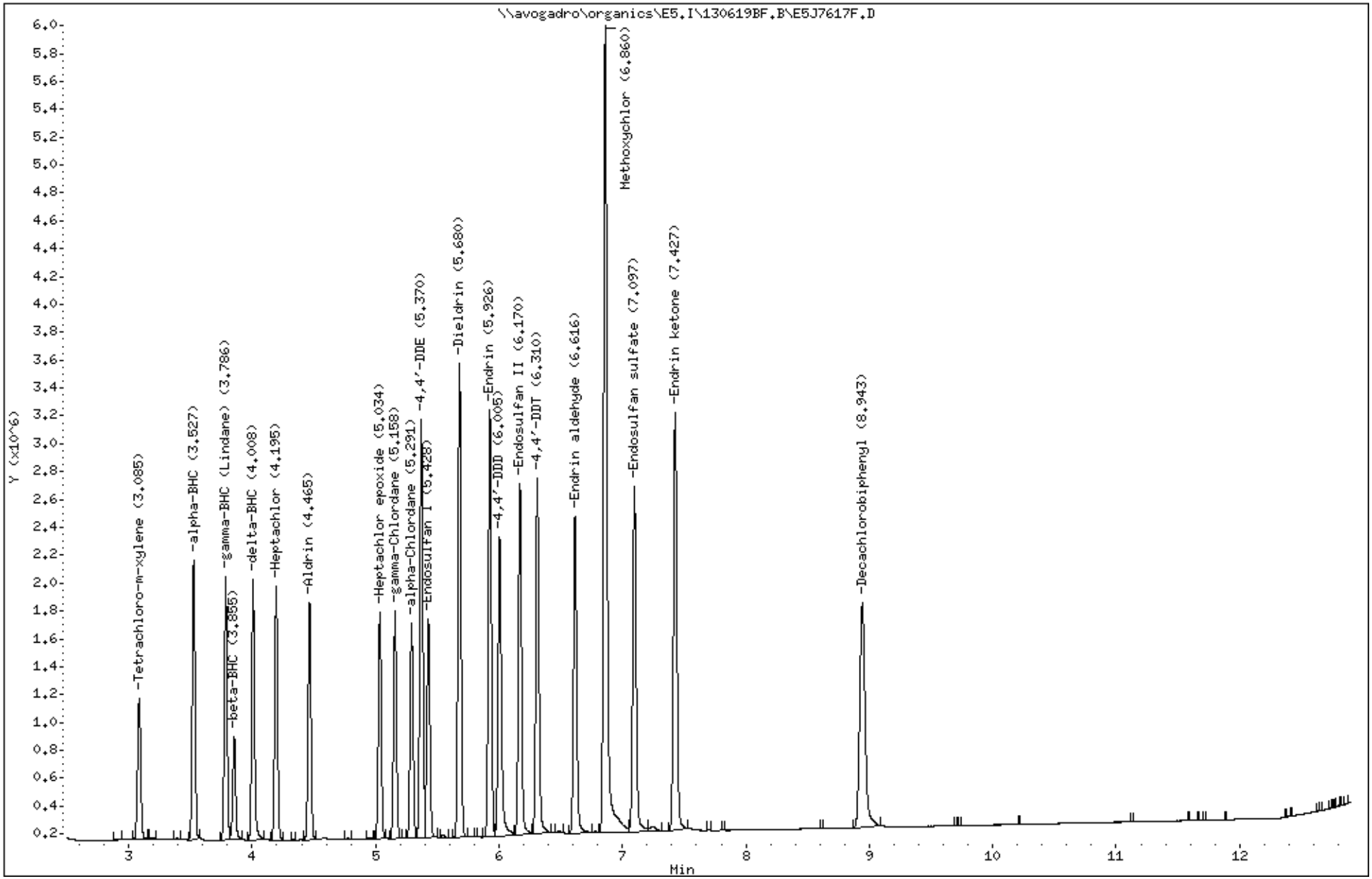
Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7617F.D
Report Date: 25-Jun-2013 10:49

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
5.033	5.035	-0.002	2657886	0.04000	0.040			(a)
16 gamma-Chlordane						CAS #: 5103-74-2		
5.157	5.158	-0.001	1631110	0.04000	0.040			(a)
17 alpha-Chlordane						CAS #: 5103-71-9		
5.291	5.292	-0.001	2560625	0.04000	0.040			(a)
18 4,4'-DDE						CAS #: 72-55-9		
5.370	5.371	-0.001	3004115	0.08000	0.082			(a)
15 Endosulfan I						CAS #: 959-98-8		
5.427	5.429	-0.002	1567156	0.04000	0.040			(a)
19 Dieldrin						CAS #: 60-57-1		
5.680	5.680	0.000	5741292	0.08000	0.080			(a)
20 Endrin						CAS #: 72-20-8		
5.926	5.926	0.000	3067175	0.08000	0.081			(a)
21 4,4'-DDD						CAS #: 72-54-8		
6.004	6.004	0.000	4117477	0.08000	0.082			(a)
22 Endosulfan II						CAS #: 33213-65-9		
6.169	6.169	0.000	4524849	0.08000	0.078			(a)
23 4,4'-DDT						CAS #: 50-29-3		
6.310	6.310	0.000	4587688	0.08000	0.081			(a)
24 Endrin aldehyde						CAS #: 7421-93-4		
6.616	6.616	0.000	2273303	0.08000	0.079			(a)
26 Methoxychlor						CAS #: 72-43-5		
6.860	6.860	0.000	11700308	0.40000	0.40			(a)
25 Endosulfan sulfate						CAS #: 1031-07-8		
7.097	7.096	0.001	4763266	0.08000	0.082			(a)
27 Endrin ketone						CAS #: 53494-70-5		
7.427	7.427	0.000	2999361	0.08000	0.078			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
8.942	8.944	-0.002	4884988	0.08000	0.076			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7617F.D
Date : 19-JUN-2013 17:57
Client ID: INDC4J5
Instrument: E5.i
Sample Info: INDC4J5,INDC4J5,,indA.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7617R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7617R.D
Lab Smp Id: INDC4J5 Client Smp ID: INDC4J5
Inj Date : 19-JUN-2013 17:57
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC4J5,INDC4J5,,indA.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 17:57 Cal File: E5J7617R.D
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

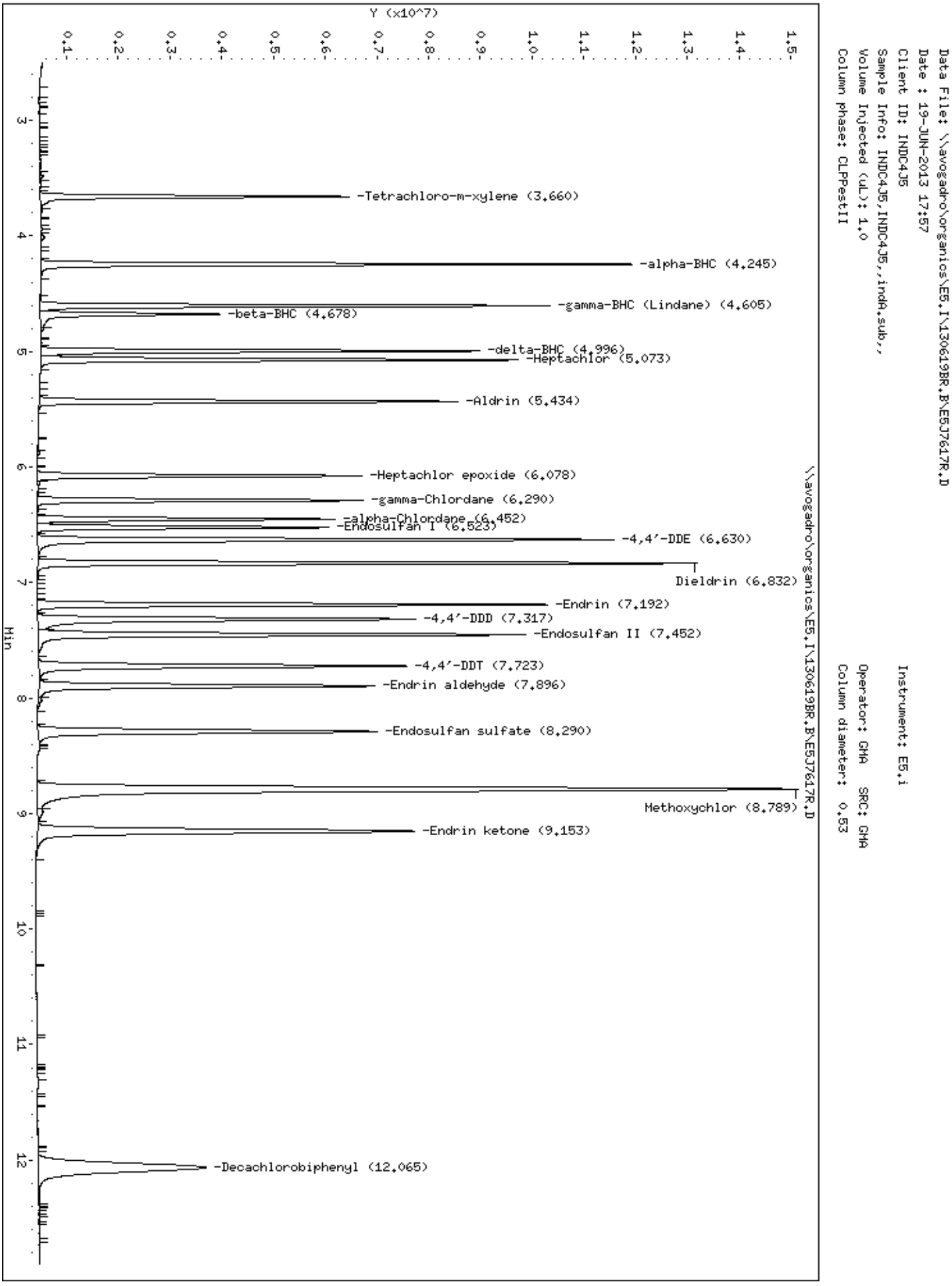
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.659	3.661	-0.002	5962375	0.04000	0.040			(a)
6 alpha-BHC					CAS #: 319-84-6			
4.245	4.246	-0.001	17635757	0.04000	0.040			(a)
7 gamma-BHC (Lindane)					CAS #: 58-89-9			
4.604	4.606	-0.002	15427349	0.04000	0.040			(a)
10 beta-BHC					CAS #: 319-85-7			
4.677	4.679	-0.002	6356085	0.04000	0.038			(a)
11 delta-BHC					CAS #: 319-86-8			
4.996	4.997	-0.001	13904228	0.04000	0.040			(a)
8 Heptachlor					CAS #: 76-44-8			
5.072	5.075	-0.003	15652305	0.04000	0.039			(a)
9 Aldrin					CAS #: 309-00-2			
5.433	5.435	-0.002	13952694	0.04000	0.039			(a)

Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7617R.D
Report Date: 25-Jun-2013 10:49

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
6.077	6.080	-0.003	11027410	0.04000	0.039			(a)
16 gamma-Chlordane						CAS #: 5103-74-2		
6.289	6.290	-0.001	10691065	0.04000	0.039			(a)
17 alpha-Chlordane						CAS #: 5103-71-9		
6.452	6.453	-0.001	9721448	0.04000	0.039			(a)
18 4,4'-DDE						CAS #: 72-55-9		
6.629	6.630	-0.001	20180521	0.08000	0.080			(a)
15 Endosulfan I						CAS #: 959-98-8		
6.522	6.525	-0.003	5636864	0.04000	0.040			(a)
19 Dieldrin						CAS #: 60-57-1		
6.832	6.834	-0.002	21701055	0.08000	0.080			(a)
20 Endrin						CAS #: 72-20-8		
7.192	7.193	-0.001	9861808	0.08000	0.082			(a)
21 4,4'-DDD						CAS #: 72-54-8		
7.317	7.317	0.000	16124224	0.08000	0.079			(a)
22 Endosulfan II						CAS #: 33213-65-9		
7.452	7.452	0.000	19115071	0.08000	0.081			(a)
23 4,4'-DDT						CAS #: 50-29-3		
7.722	7.724	-0.002	15388429	0.08000	0.083			(a)
24 Endrin aldehyde						CAS #: 7421-93-4		
7.896	7.896	0.000	6486935	0.08000	0.081			(a)
26 Methoxychlor						CAS #: 72-43-5		
8.788	8.789	-0.001	42773684	0.40000	0.41			(a)
25 Endosulfan sulfate						CAS #: 1031-07-8		
8.290	8.290	0.000	15604307	0.08000	0.079			(a)
27 Endrin ketone						CAS #: 53494-70-5		
9.152	9.153	-0.001	7282909	0.08000	0.079			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
12.064	12.065	-0.001	17860254	0.08000	0.075			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\avogadro\organics\E5.i\130619BR.B\E5J7617R.D
Date : 19-JUN-2013 17:57
Client ID: INDC4J5
Sample Info: INDC4J5,INDC4J5,,indA,sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII
Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53
Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
Min
3
4
5
6
7
8
9
10
11
12
\\avogadro\organics\E5.i\130619BR.B\E5J7617R.D
-Tetrachloro-m-xylene (3.660)
-alpha-BHC (4.245)
-gamma-BHC (Lindane) (4.605)
-beta-BHC (4.678)
-delta-BHC (4.996)
-Heptachlor (5.073)
-Aldrin (5.434)
-Heptachlor epoxide (6.078)
-gamma-Chlordane (6.290)
-alpha-Chlordane (6.452)
-Endosulfan I (6.523)
-4,4'-DDE (6.630)
Dieldrin (6.832)
-Endrin (7.192)
-4,4'-DDD (7.317)
-Endosulfan II (7.452)
-4,4'-DDT (7.723)
-Endrin aldehyde (7.896)
-Endosulfan sulfate (8.290)
Methoxychlor (8.789)
-Endrin ketone (9.153)
-Decachlorobiphenyl (12.065)

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7618F.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BF.B\E5J7618F.D
Lab Smp Id: INDC5J5 Client Smp ID: INDC5J5
Inj Date : 19-JUN-2013 18:15
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC5J5,INDC5J5,,indA.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BF.B\E58081f.m
Meth Date : 21-Jun-2013 10:52 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.085	3.085	0.000	3693422	0.08000	0.082		(A)
6 alpha-BHC					CAS #: 319-84-6		
3.527	3.527	0.000	4188780	0.08000	0.086		(A)
7 gamma-BHC (Lindane)					CAS #: 58-89-9		
3.786	3.786	0.000	6140055	0.08000	0.084		(A)
10 beta-BHC					CAS #: 319-85-7		
3.855	3.855	0.000	2448753	0.08000	0.082		(A)
11 delta-BHC					CAS #: 319-86-8		
4.008	4.008	0.000	6241417	0.08000	0.086		(A)
8 Heptachlor					CAS #: 76-44-8		
4.195	4.195	0.000	6086722	0.08000	0.082		(A)
9 Aldrin					CAS #: 309-00-2		
4.465	4.465	0.000	5706657	0.08000	0.083		(A)

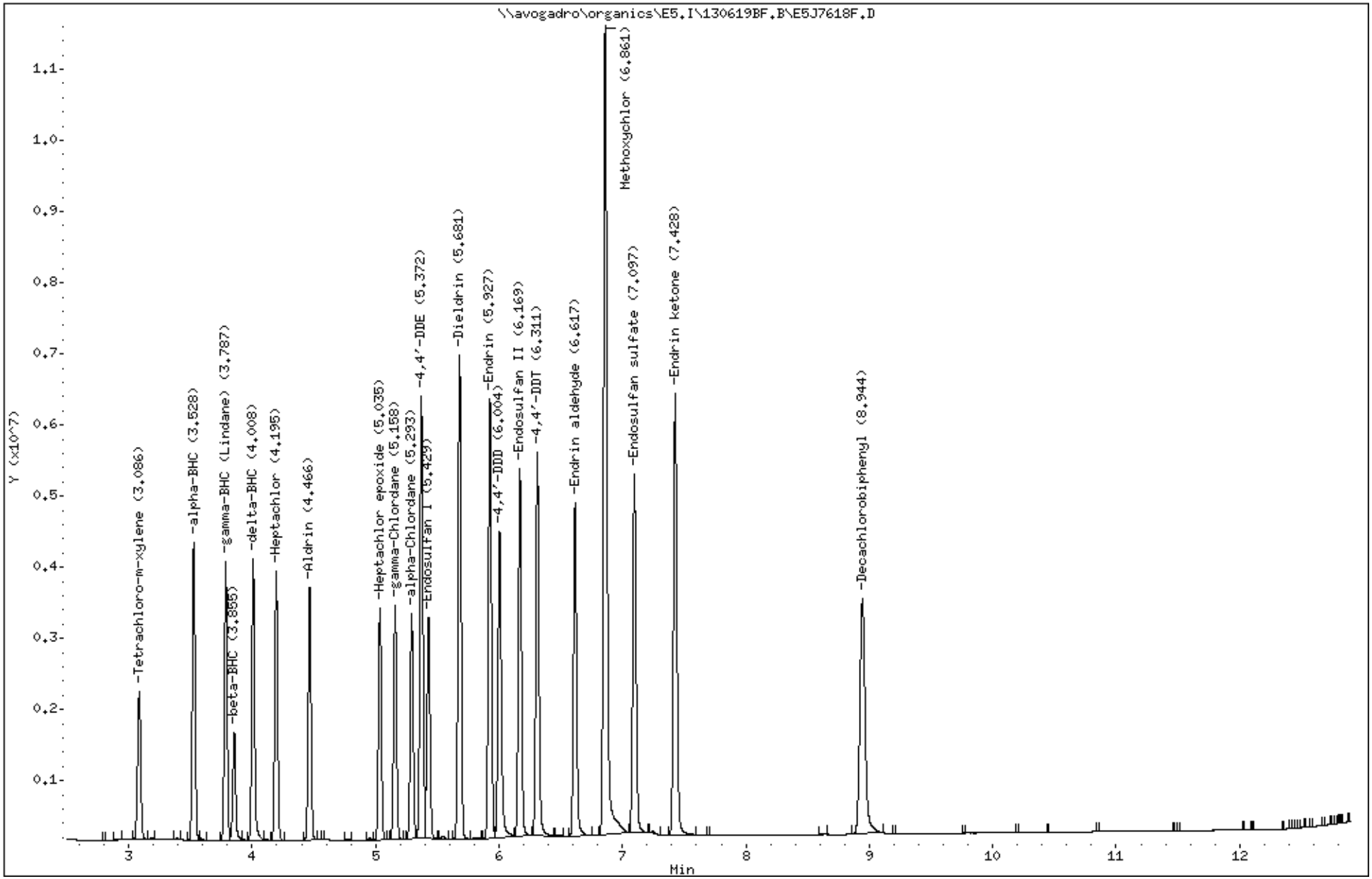
Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7618F.D
Report Date: 25-Jun-2013 10:49

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
5.035	5.035	0.000	5402847	0.08000	0.081			(A)
16 gamma-Chlordane						CAS #: 5103-74-2		
5.158	5.158	0.000	3299369	0.08000	0.081			(A)
17 alpha-Chlordane						CAS #: 5103-71-9		
5.292	5.292	0.000	5180532	0.08000	0.080			(A)
18 4,4'-DDE						CAS #: 72-55-9		
5.371	5.371	0.000	6206931	0.16000	0.17			(A)
15 Endosulfan I						CAS #: 959-98-8		
5.429	5.429	0.000	3099245	0.08000	0.078			
19 Dieldrin						CAS #: 60-57-1		
5.680	5.680	0.000	11669800	0.16000	0.16			(A)
20 Endrin						CAS #: 72-20-8		
5.926	5.926	0.000	6177835	0.16000	0.16			(A)
21 4,4'-DDD						CAS #: 72-54-8		
6.004	6.004	0.000	8089086	0.16000	0.16			(A)
22 Endosulfan II						CAS #: 33213-65-9		
6.169	6.169	0.000	9071607	0.16000	0.16			
23 4,4'-DDT						CAS #: 50-29-3		
6.310	6.310	0.000	9451731	0.16000	0.17			(A)
24 Endrin aldehyde						CAS #: 7421-93-4		
6.616	6.616	0.000	4686611	0.16000	0.16			(A)
26 Methoxychlor						CAS #: 72-43-5		
6.860	6.860	0.000	23000715	0.80000	0.79			
25 Endosulfan sulfate						CAS #: 1031-07-8		
7.096	7.096	0.000	9300502	0.16000	0.16			
27 Endrin ketone						CAS #: 53494-70-5		
7.427	7.427	0.000	6214150	0.16000	0.16			(A)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
8.944	8.944	0.000	9874987	0.16000	0.15			

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\avogadro\organics\E5.I\130619BF.B\E5J7618F.D
Date : 19-JUN-2013 18:15
Client ID: INDC5J5
Instrument: E5.i
Sample Info: INDC5J5,INDC5J5,,indA.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130619BR.B\E5J7618R.D
Report Date: 25-Jun-2013 10:49

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619BR.B\E5J7618R.D
Lab Smp Id: INDC5J5 Client Smp ID: INDC5J5
Inj Date : 19-JUN-2013 18:15
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC5J5,INDC5J5,,indA.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130619BR.B\E58081r.m
Meth Date : 21-Jun-2013 13:30 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

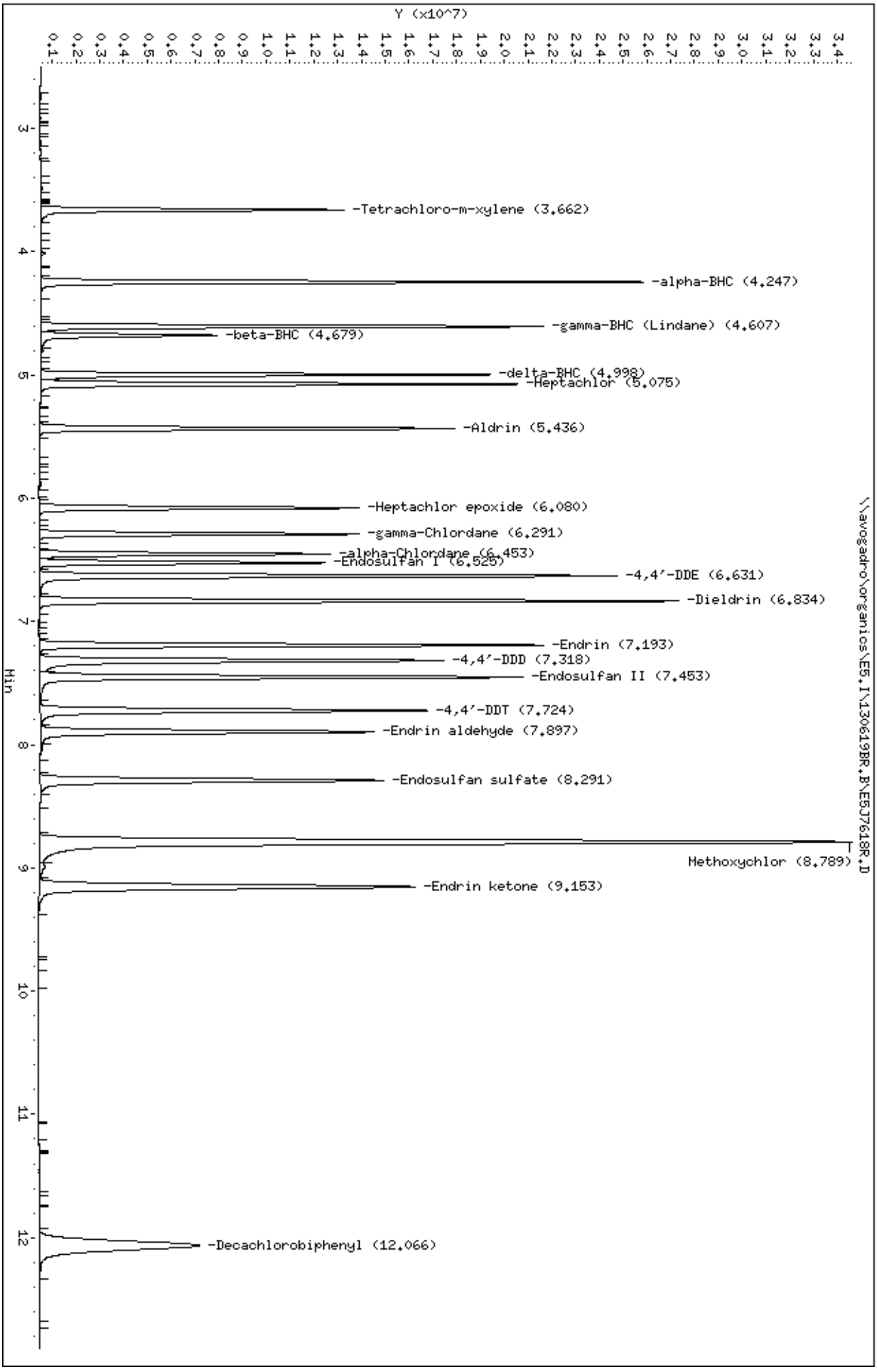
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.661	3.661	0.000	12749136	0.08000	0.084			(A)
6 alpha-BHC						CAS #: 319-84-6		
4.246	4.246	0.000	38173101	0.08000	0.086			(A)
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
4.606	4.606	0.000	32910681	0.08000	0.085			(A)
10 beta-BHC						CAS #: 319-85-7		
4.679	4.679	0.000	12464569	0.08000	0.076			
11 delta-BHC						CAS #: 319-86-8		
4.997	4.997	0.000	29878158	0.08000	0.086			(A)
8 Heptachlor						CAS #: 76-44-8		
5.075	5.075	0.000	33398437	0.08000	0.084			(A)
9 Aldrin						CAS #: 309-00-2		
5.435	5.435	0.000	29463250	0.08000	0.083			(A)

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
6.080	6.080	0.000	23138662	0.08000	0.082			(A)
16 gamma-Chlordane						CAS #: 5103-74-2		
6.290	6.290	0.000	22485439	0.08000	0.083			(A)
17 alpha-Chlordane						CAS #: 5103-71-9		
6.453	6.453	0.000	20296459	0.08000	0.082			(A)
18 4,4'-DDE						CAS #: 72-55-9		
6.630	6.630	0.000	42824728	0.16000	0.17			(A)
15 Endosulfan I						CAS #: 959-98-8		
6.525	6.525	0.000	12009093	0.08000	0.084			(A)
19 Dieldrin						CAS #: 60-57-1		
6.834	6.834	0.000	45757623	0.16000	0.17			(A)
20 Endrin						CAS #: 72-20-8		
7.193	7.193	0.000	21170064	0.16000	0.18			(A)
21 4,4'-DDD						CAS #: 72-54-8		
7.317	7.317	0.000	35389226	0.16000	0.17			(A)
22 Endosulfan II						CAS #: 33213-65-9		
7.452	7.452	0.000	40143041	0.16000	0.17			(A)
23 4,4'-DDT						CAS #: 50-29-3		
7.724	7.724	0.000	34114459	0.16000	0.18			(A)
24 Endrin aldehyde						CAS #: 7421-93-4		
7.896	7.896	0.000	14029743	0.16000	0.18			(A)
26 Methoxychlor						CAS #: 72-43-5		
8.789	8.789	0.000	95407062	0.80000	0.92			(A)
25 Endosulfan sulfate						CAS #: 1031-07-8		
8.290	8.290	0.000	33132226	0.16000	0.17			(A)
27 Endrin ketone						CAS #: 53494-70-5		
9.153	9.153	0.000	15762512	0.16000	0.17			(A)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
12.065	12.065	0.000	35911878	0.16000	0.15			

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\avogadro\organics\E5.i\130619BR.B\E5J7618R.D
Date : 19-JUN-2013 18:15
Client ID: INDC5J5
Sample Info: INDC5J5,INDC5J5,,indA,sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53

Data File: \\avogadro\organics\E5.I\130619AF.B\E5J7605F.D
Report Date: 19-Jun-2013 15:27

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619AF.B\E5J7605F.D
Lab Smp Id: PEMJ5 Client Smp ID: PEMJ5
Inj Date : 19-JUN-2013 14:25
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : PEMJ5,PEMJ5,,pem.sub,pem.spk,
Misc Info : 3,,PEM,1,,1000,,
Comment   : Column Phase: CLP PEST Column Diameter: 0.53mm
Method   : \\avogadro\organics\E5.I\130619AF.B\E5_1586-f.m
Meth Date : 19-Jun-2013 14:43 gappolonia Quant Type: ESTD
Cal Date : 30-MAY-2013 18:01 Cal File: E5J7446F.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pem.sub
Target Version: 4.14
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

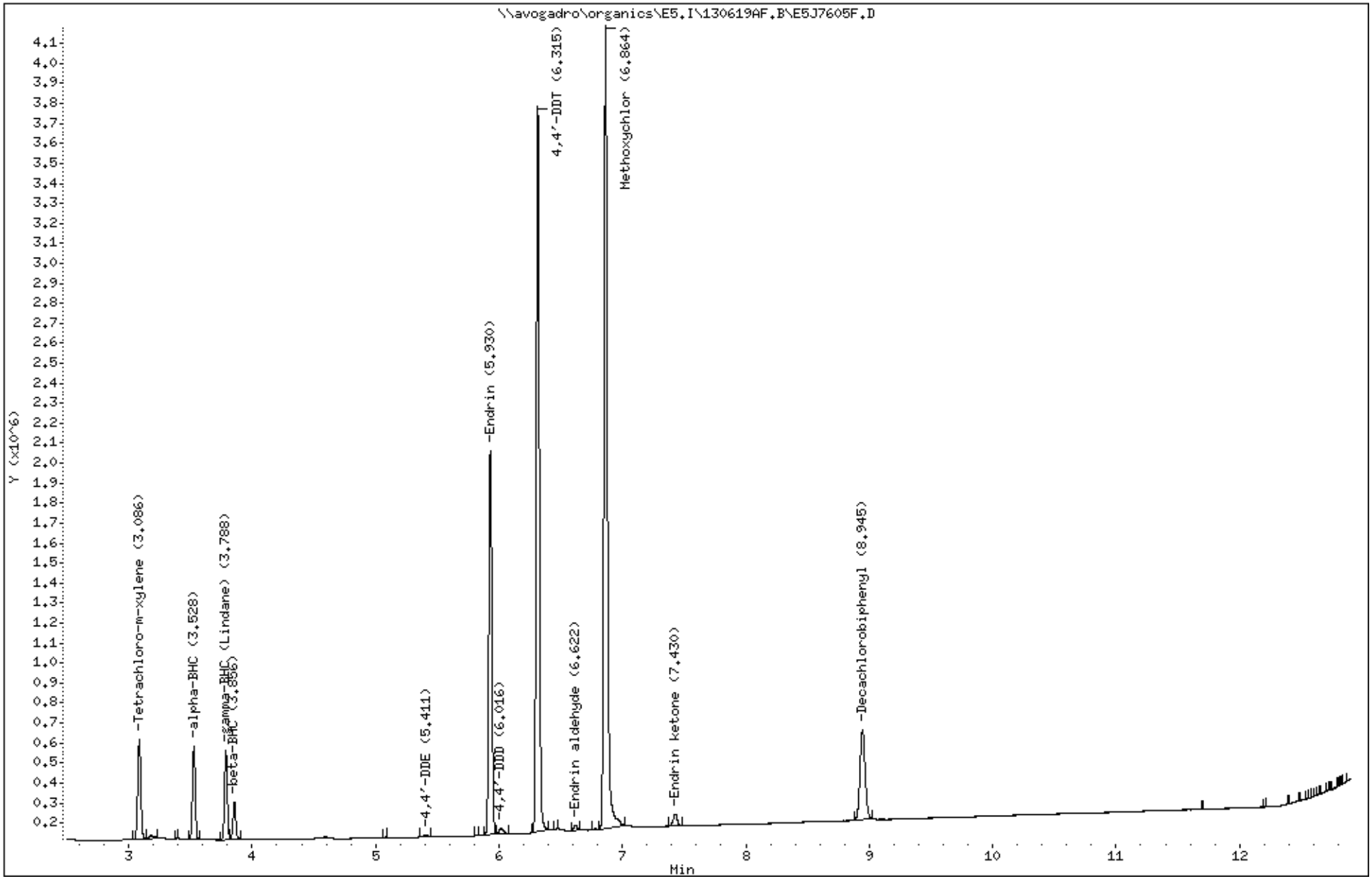
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 1 Tetrachloro-m-xylene	3.086	3.088	-0.002	882021	0.02376	0.024
3 alpha-BHC	3.527	3.530	-0.003	735144	0.01184	0.012
4 gamma-BHC (Lindane)	3.787	3.790	-0.003	702677	0.01183	0.012
7 beta-BHC	3.856	3.859	-0.003	299396	0.01222	0.012
13 4,4'-DDE	5.411	5.378	0.033	23003	0.00048	0.00048(a)
15 Endrin	5.930	5.933	-0.003	1924410	0.06645	0.066(R)
16 4,4'-DDD	6.016	6.012	0.004	68838	0.00177	0.0018(a)
18 4,4'-DDT	6.314	6.318	-0.004	6125482	0.14766	0.15(R)
19 Endrin aldehyde	6.622	6.623	-0.001	26836	0.00119	0.0012(a)
21 Methoxychlor	6.863	6.867	-0.004	7722432	0.35084	0.35(R)
22 Endrin ketone	7.429	7.434	-0.005	59525	0.00194	0.0019(a)
$ 2 Decachlorobiphenyl	8.945	8.951	-0.006	1314039	0.02606	0.026(R)

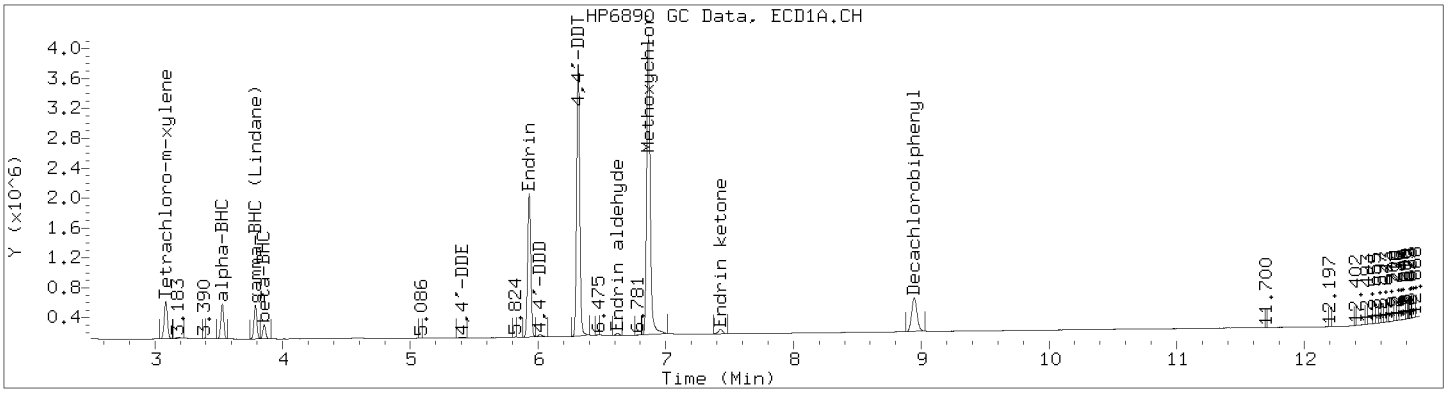
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E5.I\130619AF.B\E5J7605F.D
Date : 19-JUN-2013 14:25
Client ID: PEMJ5
Instrument: E5.i
Sample Info: PEMJ5,PEMJ5,,pem.sub,pem.spk,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53

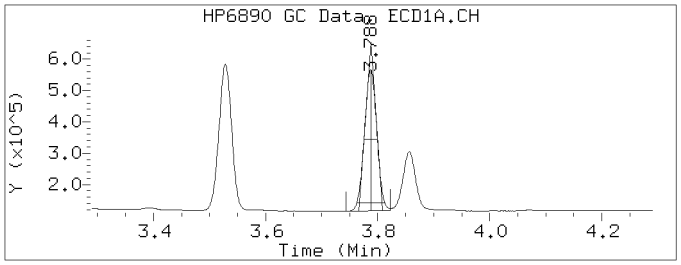


Data File : \\avogadro\organics\E5.I\130619AF.B/E5J7605F.D
Lab Smp ID : PEMJ5
Client Smp ID : PEMJ5
Sample Type: PEM
Inj Date : 19-JUN-2013 14:25



gamma-BHC (Lindane) to beta-BHC

Resolution: 96.8



Data File: \\avogadro\organics\E5.I\130619AR.B\E5J7605R.D
Report Date: 19-Jun-2013 15:27

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130619AR.B\E5J7605R.D
Lab Smp Id: PEMJ5 Client Smp ID: PEMJ5
Inj Date : 19-JUN-2013 14:25
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : PEMJ5,PEMJ5,,pem.sub,pem.spk,
Misc Info : 3,,PEM,1,,1000,,
Comment : Column Phase: CLP PEST (II) Column Diameter: 0.53mm
Method : \\avogadro\organics\E5.I\130619AR.B\E5_1586-r.m
Meth Date : 19-Jun-2013 14:44 gappolonia Quant Type: ESTD
Cal Date : 30-MAY-2013 18:01 Cal File: E5J7446R.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pem.sub
Target Version: 4.14
Processing Host: TARGET106

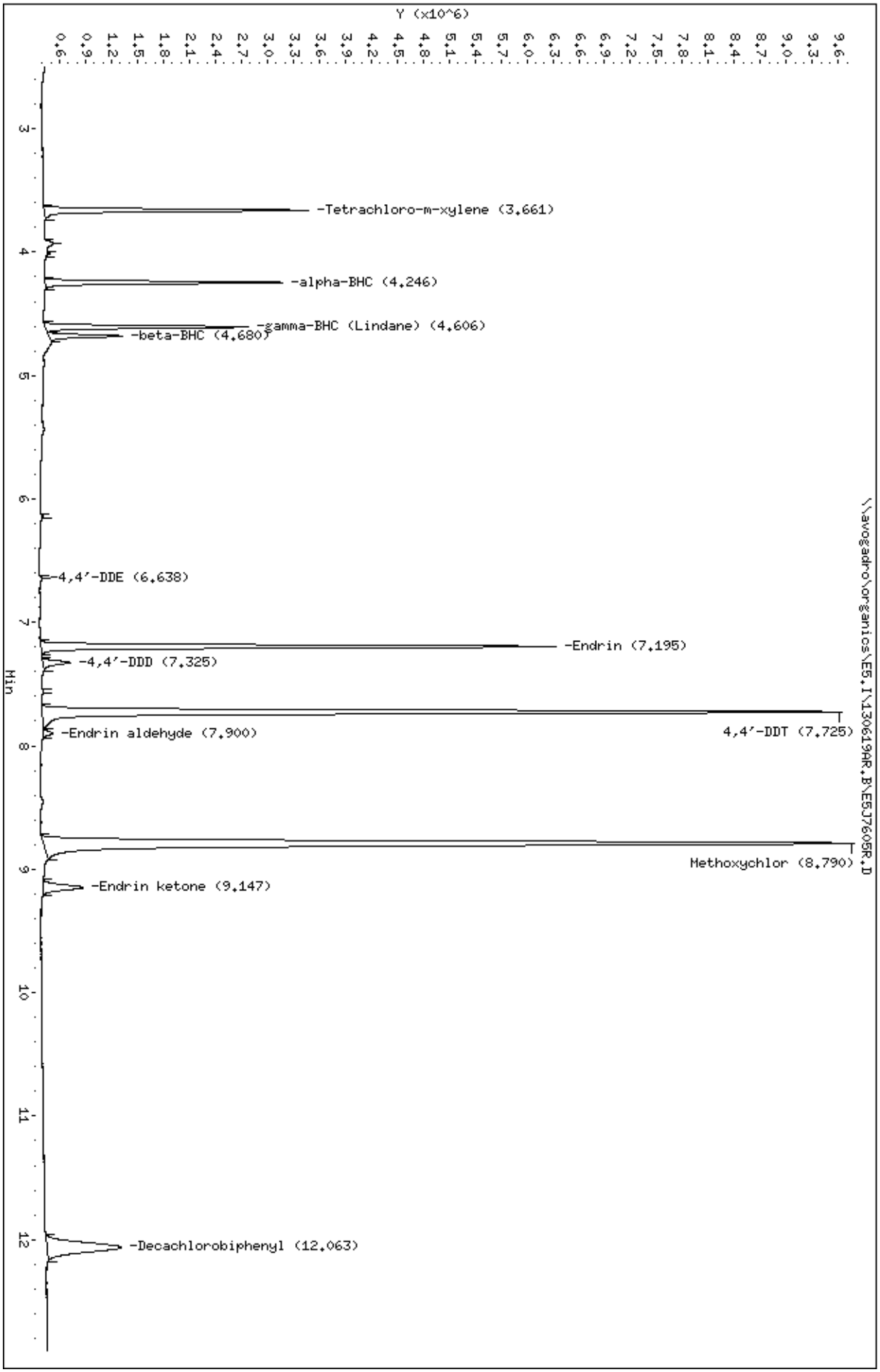
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

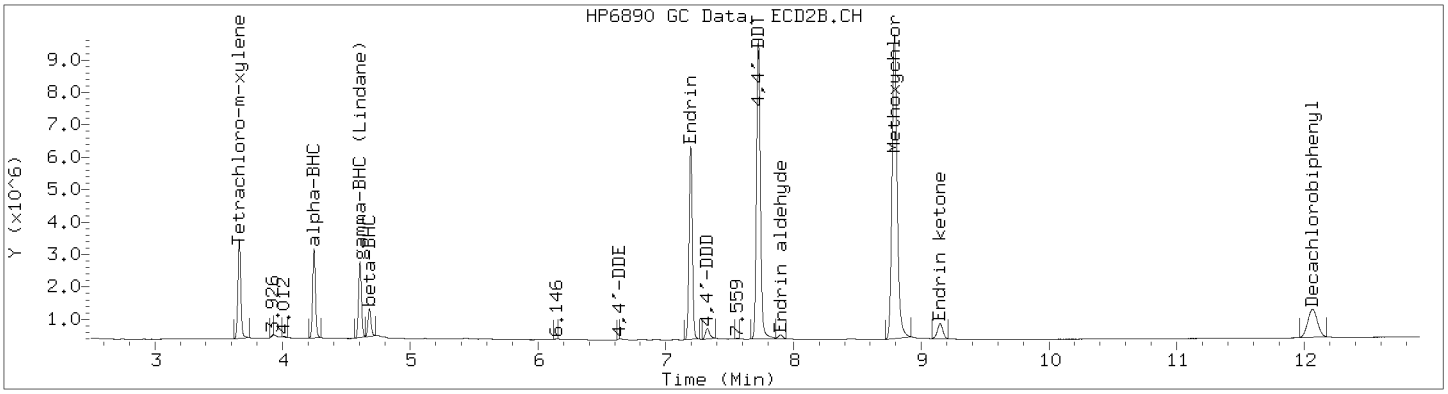
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 1 Tetrachloro-m-xylene	3.661	3.664	-0.003	4964965	0.02259	0.023
6 alpha-BHC	4.246	4.250	-0.004	4301514	0.01112	0.011
7 gamma-BHC (Lindane)	4.606	4.610	-0.004	3718134	0.01101	0.011
10 beta-BHC	4.679	4.684	-0.005	1385800	0.00923	0.0092
18 4,4'-DDE	6.637	6.636	0.001	2767	1e-005	0.000013(a)
20 Endrin	7.195	7.199	-0.004	5960118	0.06170	0.062
21 4,4'-DDD	7.325	7.324	0.001	745689	0.00434	0.0043(a)
23 4,4'-DDT	7.725	7.729	-0.004	19724519	0.13664	0.14(R)
24 Endrin aldehyde	7.900	7.902	-0.002	113479	0.00166	0.0017(a)
26 Methoxychlor	8.789	8.795	-0.006	26135758	0.30644	0.31
27 Endrin ketone	9.147	9.160	-0.013	465049	0.00564	0.0056(a)
$ 2 Decachlorobiphenyl	12.062	12.072	-0.010	4523935	0.02193	0.022

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Min
-Tetrachloro-m-xylene (3.661)
-alpha-BHC (4.246)
-gamma-BHC (Lindane) (4.606)
-beta-BHC (4.680)
-4,4'-DDE (6.638)
-Endrin (7.195)
-4,4'-DDD (7.325)
-Endrin aldehyde (7.900)
4,4'-DDT (7.725)
Methoxychlor (8.790)
-Endrin ketone (9.147)
-Decachlorobiphenyl (12.063)
\\avogadro\organics\E5.I\130619AR.B\E5J7605R.D
Data File: \\avogadro\organics\E5.I\130619AR.B\E5J7605R.D
Date : 19-JUN-2013 14:25
Client ID: PEMJ5
Sample Info: PEMJ5,PEMJ5,,pem,sub,pem,spk,
Volume Injected (uL): 1.0
Column phase: CLPPestII
Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53

Data File : \\avogadro\organics\E5.I\130619AR.B/E5J7605R.D
Lab Smp ID : PEMJ5
Client Smp ID : PEMJ5
Sample Type: PEM
Inj Date : 19-JUN-2013 14:25



Data File: \\avogadro\organics\E5.I\130620F.B\E5J7629F.D
Report Date: 25-Jun-2013 10:19

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620F.B\E5J7629F.D
Lab Smp Id: PEMJA Client Smp ID: PEMJA
Inj Date : 20-JUN-2013 12:32
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : PEMJA,PEMJA,,pem.sub,pem.spk,
Misc Info : 3,,PEM,1,,1000,,
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pem.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

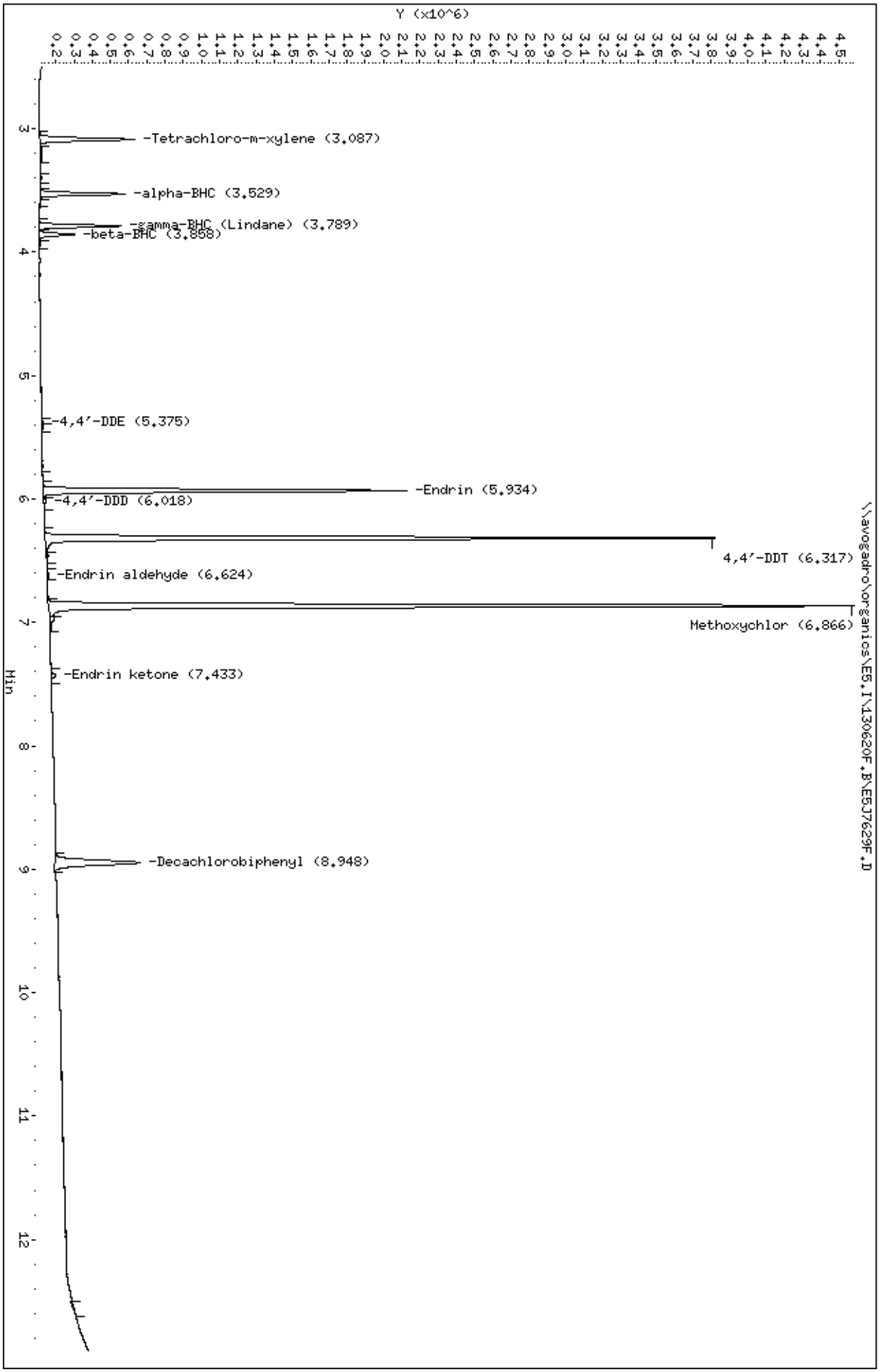
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.086	3.085	0.001	909003	0.02016	0.020			
6 alpha-BHC						CAS #: 319-84-6		
3.529	3.527	0.002	465995	0.00954	0.0095			
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
3.788	3.786	0.002	693890	0.00951	0.0095			
10 beta-BHC						CAS #: 319-85-7		
3.857	3.855	0.002	303905	0.01017	0.010			
18 4,4'-DDE						CAS #: 72-55-9		
5.375	5.371	0.004	4454	1e-004	0.00012			(a)
20 Endrin						CAS #: 72-20-8		
5.933	5.926	0.007	1997463	0.05282	0.053			
21 4,4'-DDD						CAS #: 72-54-8		
6.017	6.004	0.013	38812	8e-004	0.00077			(a)

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7629F.D
Report Date: 25-Jun-2013 10:19

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/L)	TARGET RANGE	RATIO
23 4,4'-DDT					CAS #: 50-29-3		
6.316	6.310	0.006	6198615	0.10918	0.11		
24 Endrin aldehyde					CAS #: 7421-93-4		
6.623	6.616	0.007	10149	4e-004	0.00035		(a)
26 Methoxychlor					CAS #: 72-43-5		
6.866	6.860	0.006	7924749	0.27150	0.27		
27 Endrin ketone					CAS #: 53494-70-5		
7.432	7.427	0.005	27130	7e-004	0.00071		(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3		
8.947	8.944	0.003	1341062	0.02086	0.021		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
-Tetrachloro-m-xylene (3.087)
-alpha-BHC (3.529)
-gamma-BHC (Lindane) (3.789)
-beta-BHC (3.858)
-4,4'-DDE (5.375)
-Endrin (5.934)
-4,4'-DDD (6.018)
4,4'-DDT (6.317)
-Endrin aldehyde (6.624)
Methoxychlor (6.866)
-Endrin ketone (7.433)
-Decachlorobiphenyl (8.948)
Min
\\avogadro\organics\E5.I\130620F.B\E5J7629F.D
Data File: \\avogadro\organics\E5.I\130620F.B\E5J7629F.D
Date : 20-JUN-2013 12:32
Client ID: PEMJA
Sample Info: PEMJA,PEMJA,,pem,sub,pem,spk,
Volume Injected (uL): 1.0
Column phase: CLPPest
Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7629R.D
Report Date: 25-Jun-2013 10:20

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620R.B\E5J7629R.D
Lab Smp Id: PEMJA Client Smp ID: PEMJA
Inj Date : 20-JUN-2013 12:32
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : PEMJA,PEMJA,,pem.sub,pem.spk,
Misc Info : 3,,PEM,1,,1000,,
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pem.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

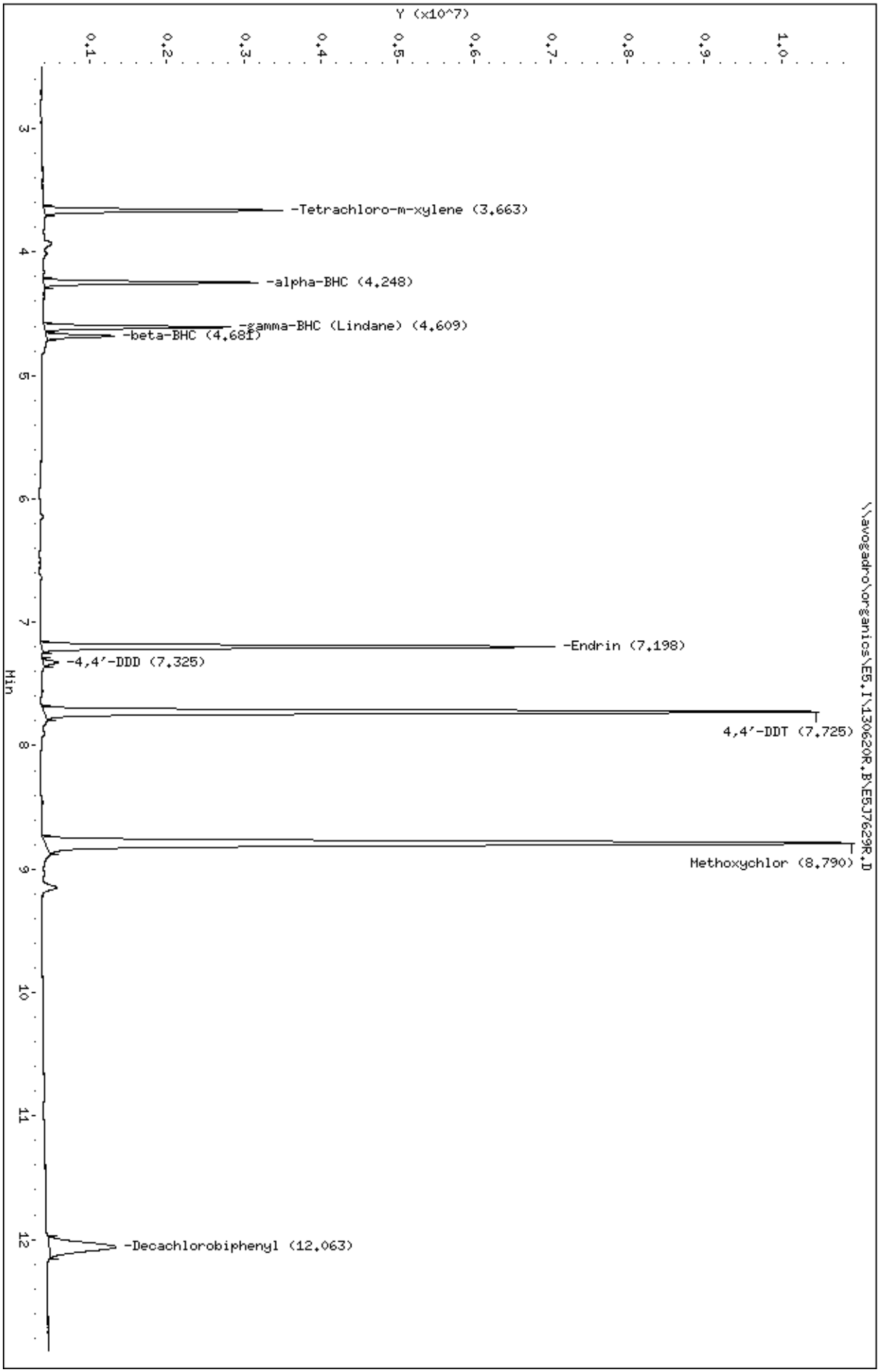
				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.662	3.661	0.001	3089817	0.02049	0.020		
6 alpha-BHC					CAS #: 319-84-6		
4.247	4.246	0.001	4264321	0.00957	0.0096		
7 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.608	4.606	0.002	3757003	0.00968	0.0097		
10 beta-BHC					CAS #: 319-85-7		
4.681	4.679	0.002	1414348	0.00857	0.0086		
20 Endrin					CAS #: 72-20-8		
7.197	7.193	0.004	6682962	0.05548	0.055		
21 4,4'-DDD					CAS #: 72-54-8		
7.325	7.317	0.008	382002	0.00188	0.0019		(a)
23 4,4'-DDT					CAS #: 50-29-3		
7.725	7.724	0.001	20433852	0.10978	0.11		

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7629R.D
Report Date: 25-Jun-2013 10:20

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
26 Methoxychlor					CAS #: 72-43-5		
8.790	8.789	0.001	27676711	0.26786	0.27		
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3		
12.062	12.065	-0.003	4339912	0.01826	0.018		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\avogadro\organics\E5.i\130620R.B\E5J7629R.D
Date : 20-JUN-2013 12:32
Client ID: PEMJA
Sample Info: PEMJA,PEMJA,,pem,sub,pem,spk,
Volume Injected (uL): 1.0
Column phase: CLPPestII
Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53
Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Min
3
4
5
6
7
8
9
10
11
12
-Tetrachloro-m-xylene (3.663)
-alpha-BHC (4.248)
-gamma-BHC (Lindane) (4.609)
-beta-BHC (4.681)
-Endrin (7.198)
-4,4'-DDD (7.325)
4,4'-DDT (7.725)
Methoxychlor (8.790)
-Decachlorobiphenyl (12.063)
\\avogadro\organics\E5.i\130620R.B\E5J7629R.D

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7630F.D
Report Date: 25-Jun-2013 10:19

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620F.B\E5J7630F.D
Lab Smp Id: INDC3JA Client Smp ID: INDC3JA
Inj Date : 20-JUN-2013 12:50
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : INDC3JA,INDC3JA,,indA.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

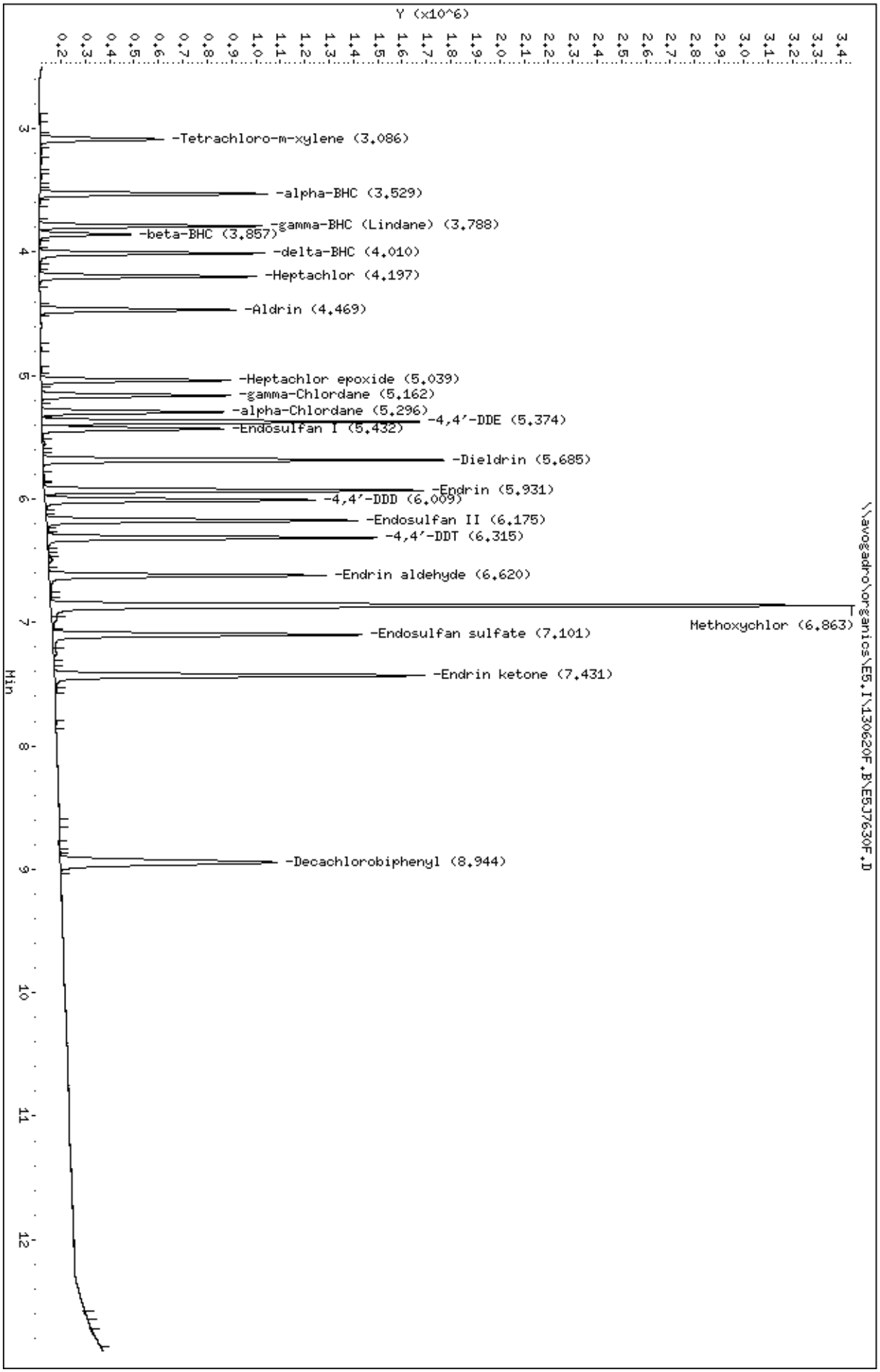
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.086	3.085	0.001	881425	0.02000	0.020			(a)
6 alpha-BHC						CAS #: 319-84-6		
3.528	3.527	0.001	932854	0.02000	0.019			(a)
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
3.788	3.786	0.002	1394189	0.02000	0.019			(a)
10 beta-BHC						CAS #: 319-85-7		
3.857	3.855	0.002	587156	0.02000	0.020			(a)
11 delta-BHC						CAS #: 319-86-8		
4.009	4.008	0.001	1415202	0.02000	0.020			(a)
8 Heptachlor						CAS #: 76-44-8		
4.197	4.195	0.002	1398345	0.02000	0.019			(a)
9 Aldrin						CAS #: 309-00-2		
4.468	4.465	0.003	1290239	0.02000	0.019			(a)

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7630F.D
Report Date: 25-Jun-2013 10:19

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
5.038	5.035	0.003	1266685	0.02000	0.019			(a)
16 gamma-Chlordane						CAS #: 5103-74-2		
5.162	5.158	0.004	777558	0.02000	0.019			(a)
17 alpha-Chlordane						CAS #: 5103-71-9		
5.296	5.292	0.004	1238716	0.02000	0.019			(a)
18 4,4'-DDE						CAS #: 72-55-9		
5.373	5.371	0.002	1547194	0.04000	0.042			(a)
15 Endosulfan I						CAS #: 959-98-8		
5.432	5.429	0.003	743793	0.02000	0.019			(a)
19 Dieldrin						CAS #: 60-57-1		
5.684	5.680	0.004	2770343	0.04000	0.039			(a)
20 Endrin						CAS #: 72-20-8		
5.931	5.926	0.005	1557176	0.04000	0.041			(a)
21 4,4'-DDD						CAS #: 72-54-8		
6.008	6.004	0.004	1980290	0.04000	0.039			(a)
22 Endosulfan II						CAS #: 33213-65-9		
6.174	6.169	0.005	2221050	0.04000	0.038			(a)
23 4,4'-DDT						CAS #: 50-29-3		
6.314	6.310	0.004	2302689	0.04000	0.040			(a)
24 Endrin aldehyde						CAS #: 7421-93-4		
6.619	6.616	0.003	1133910	0.04000	0.040			(a)
26 Methoxychlor						CAS #: 72-43-5		
6.863	6.860	0.003	6069637	0.20000	0.21			(a)
25 Endosulfan sulfate						CAS #: 1031-07-8		
7.100	7.096	0.004	2396143	0.04000	0.041			(a)
27 Endrin ketone						CAS #: 53494-70-5		
7.430	7.427	0.003	1517895	0.04000	0.040			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
8.943	8.944	-0.001	2569335	0.04000	0.040			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\avogadro\organics\E5.i\130620F.B\E5J7630F.D
Date : 20-JUN-2013 12:50
Client ID: INDC3JA
Sample Info: INDC3JA,INDC3JA,,indA,sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7630R.D
Report Date: 25-Jun-2013 10:20

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620R.B\E5J7630R.D
Lab Smp Id: INDC3JA Client Smp ID: INDC3JA
Inj Date : 20-JUN-2013 12:50
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC3JA,INDC3JA,,indA.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

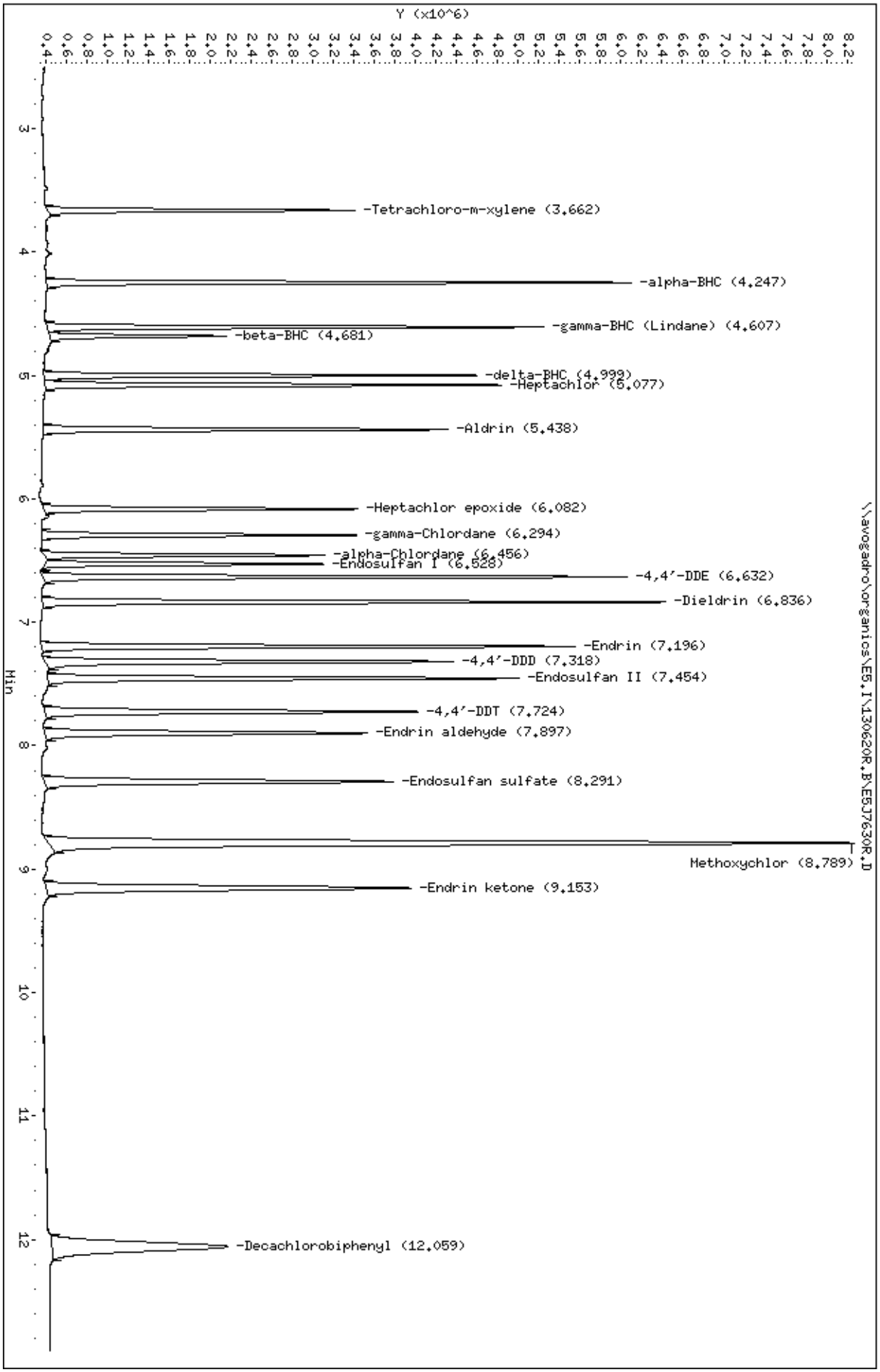
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.662	3.661	0.001	2996591	0.02000	0.020			(a)
6 alpha-BHC						CAS #: 319-84-6		
4.247	4.246	0.001	8567529	0.02000	0.019			(a)
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
4.607	4.606	0.001	7471934	0.02000	0.019			(a)
10 beta-BHC						CAS #: 319-85-7		
4.680	4.679	0.001	2785821	0.02000	0.017			(a)
11 delta-BHC						CAS #: 319-86-8		
4.998	4.997	0.001	6670502	0.02000	0.019			(a)
8 Heptachlor						CAS #: 76-44-8		
5.077	5.075	0.002	7362339	0.02000	0.018			(a)
9 Aldrin						CAS #: 309-00-2		
5.438	5.435	0.003	6681973	0.02000	0.019			(a)

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7630R.D
Report Date: 25-Jun-2013 10:20

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
6.082	6.080	0.002	5281745	0.02000	0.019			(a)
16 gamma-Chlordane						CAS #: 5103-74-2		
6.293	6.290	0.003	5127699	0.02000	0.019			(a)
17 alpha-Chlordane						CAS #: 5103-71-9		
6.456	6.453	0.003	4582629	0.02000	0.018			(a)
18 4,4'-DDE						CAS #: 72-55-9		
6.632	6.630	0.002	9594068	0.04000	0.038			(a)
15 Endosulfan I						CAS #: 959-98-8		
6.528	6.525	0.003	2720565	0.02000	0.019			(a)
19 Dieldrin						CAS #: 60-57-1		
6.835	6.834	0.001	10364408	0.04000	0.038			(a)
20 Endrin						CAS #: 72-20-8		
7.195	7.193	0.002	5187197	0.04000	0.043			(a)
21 4,4'-DDD						CAS #: 72-54-8		
7.318	7.317	0.001	7846565	0.04000	0.039			(a)
22 Endosulfan II						CAS #: 33213-65-9		
7.453	7.452	0.001	8696826	0.04000	0.037			(a)
23 4,4'-DDT						CAS #: 50-29-3		
7.723	7.724	-0.001	7385500	0.04000	0.040			(a)
24 Endrin aldehyde						CAS #: 7421-93-4		
7.897	7.896	0.001	3139796	0.04000	0.039			(a)
26 Methoxychlor						CAS #: 72-43-5		
8.788	8.789	-0.001	20617311	0.20000	0.20			(a)
25 Endosulfan sulfate						CAS #: 1031-07-8		
8.290	8.290	0.000	7669866	0.04000	0.039			(a)
27 Endrin ketone						CAS #: 53494-70-5		
9.153	9.153	0.000	3545556	0.04000	0.039			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
12.058	12.065	-0.007	8712622	0.04000	0.037			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\avogadro\organics\E5.I\130620R.B\E5J7630R.D
Date : 20-JUN-2013 12:50
Client ID: INDC3JA
Sample Info: INDC3JA,INDC3JA,,indA,sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7631F.D
Report Date: 25-Jun-2013 10:19

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620F.B\E5J7631F.D
Lab Smp Id: TOXAPH3JA Client Smp ID: TOXAPH3JA
Inj Date : 20-JUN-2013 13:08
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH3JA,TOXAPH3JA,,somtox.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

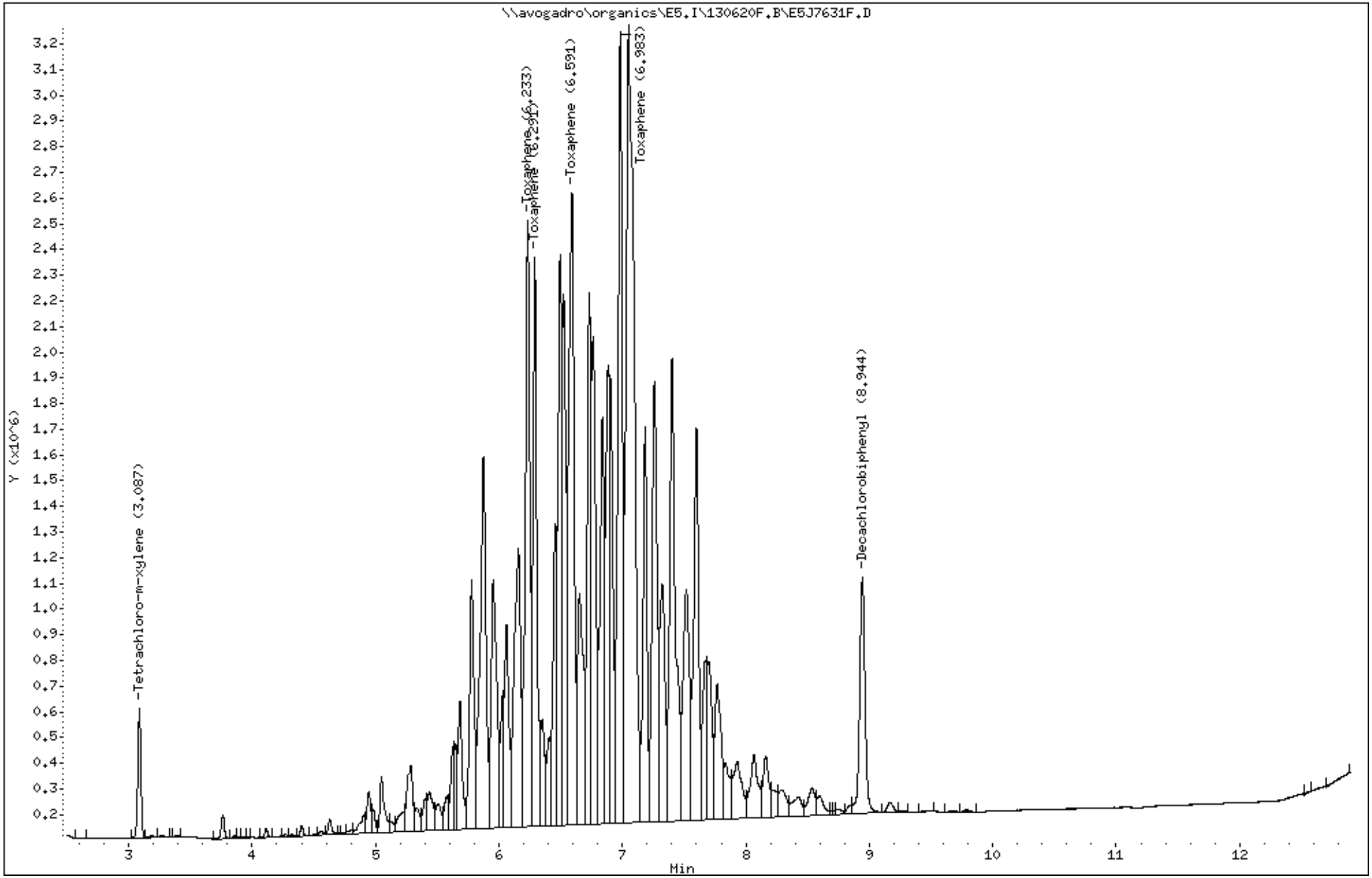
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.086	3.085	0.001	881695	0.02000	0.020		(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3		
8.944	8.944	0.000	2840321	0.04000	0.044		(a)
28 Toxaphene					CAS #: 8001-35-2		
6.232	6.230	0.002	2361443	2.00000	1.9	80.00- 120.00	100.00(a)
6.290	6.289	0.001	2216400	2.00000	2.0	71.80- 111.80	93.86
6.590	6.590	0.000	2458147	2.00000	1.9	84.37- 124.37	104.10
6.983	6.982	0.001	3082519	2.00000	2.0	132.26- 172.26	130.54
Average of Peak Amounts =					1.95000		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7631F.D
Date : 20-JUN-2013 13:08
Client ID: TOXAPH3JA
Instrument: E5.i
Sample Info: TOXAPH3JA,TOXAPH3JA,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130620R.B\E5J7631R.D
Report Date: 25-Jun-2013 10:20

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620R.B\E5J7631R.D
Lab Smp Id: TOXAPH3JA Client Smp ID: TOXAPH3JA
Inj Date : 20-JUN-2013 13:08
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH3JA,TOXAPH3JA,,somtox.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

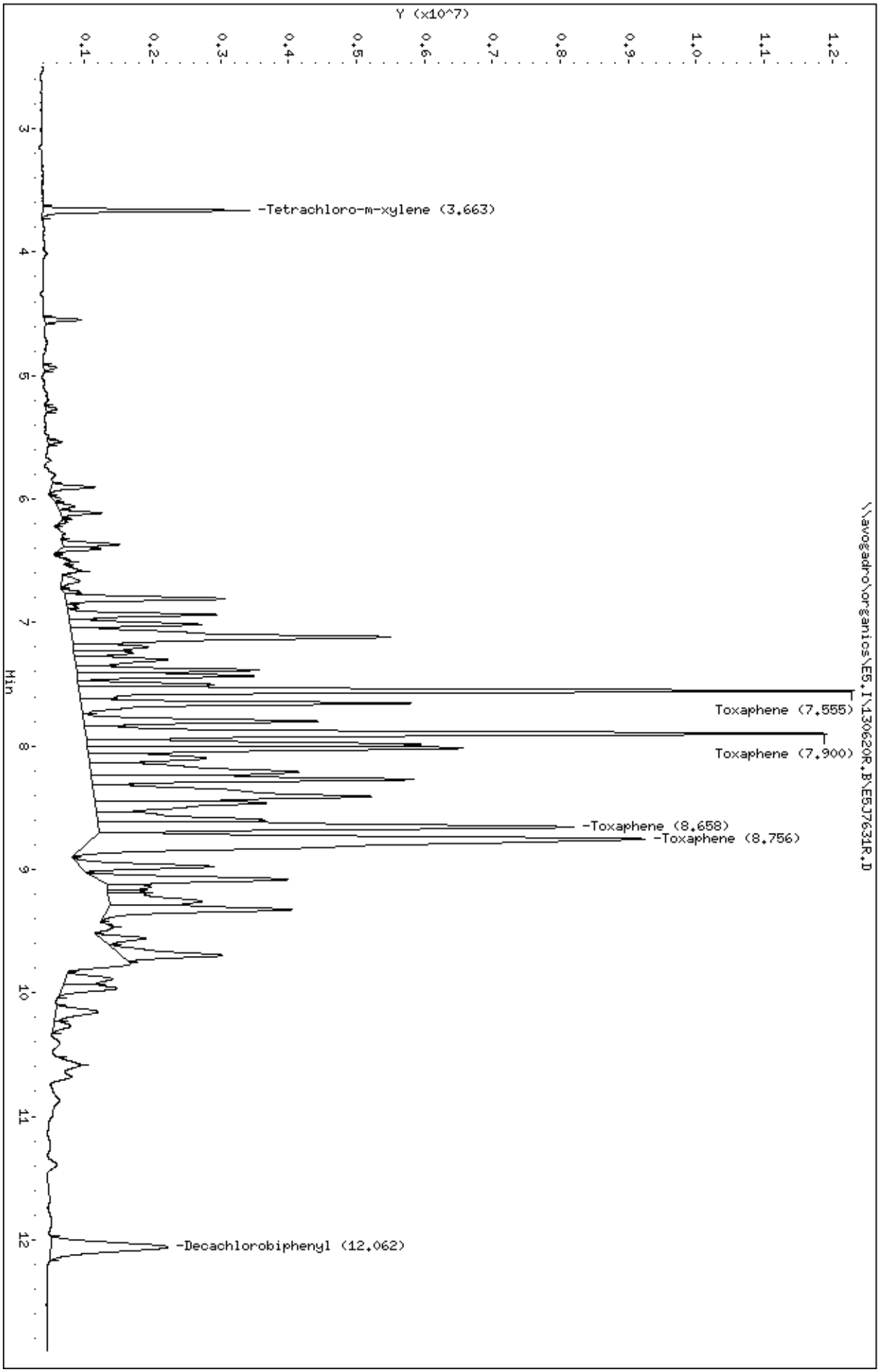
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.662	3.661	0.001	3047011	0.02000	0.020		(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3		
12.061	12.065	-0.004	8921346	0.04000	0.038		(a)
28 Toxaphene					CAS #: 8001-35-2		
7.555	7.555	0.000	11399156	2.00000	2.0	80.00- 120.00	100.00(a)
7.900	7.900	0.000	10899668	2.00000	2.0	74.20- 114.20	95.62
8.658	8.656	0.002	6994290	2.00000	2.0	40.64- 80.64	61.36
8.755	8.756	-0.001	8130783	2.00000	2.0	49.81- 89.81	71.33
		Average of Peak Amounts =		2.00000			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\avogadro\organics\E5.i\130620R.B\E5J7631R.D
Date : 20-JUN-2013 13:08
Client ID: TOXAPH3JA
Sample Info: TOXAPH3JA,TOXAPH3JA,,somtox,sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII
Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53
Y (x10^7)
Min
-Tetrachloro-m-xylene (3.663)
Toxaphene (7.555)
Toxaphene (7.900)
-Toxaphene (8.658)
-Toxaphene (8.756)
-Decachlorobiphenyl (12.062)
\\avogadro\organics\E5.i\130620R.B\E5J7631R.D

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7652F.D
Report Date: 25-Jun-2013 10:20

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620F.B\E5J7652F.D
Lab Smp Id: PEMJB Client Smp ID: PEMJB
Inj Date : 20-JUN-2013 19:18
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : PEMJB,PEMJB,,pem.sub,pem.spk,
Misc Info : 3,,PEM,1,,1000,,
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pem.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

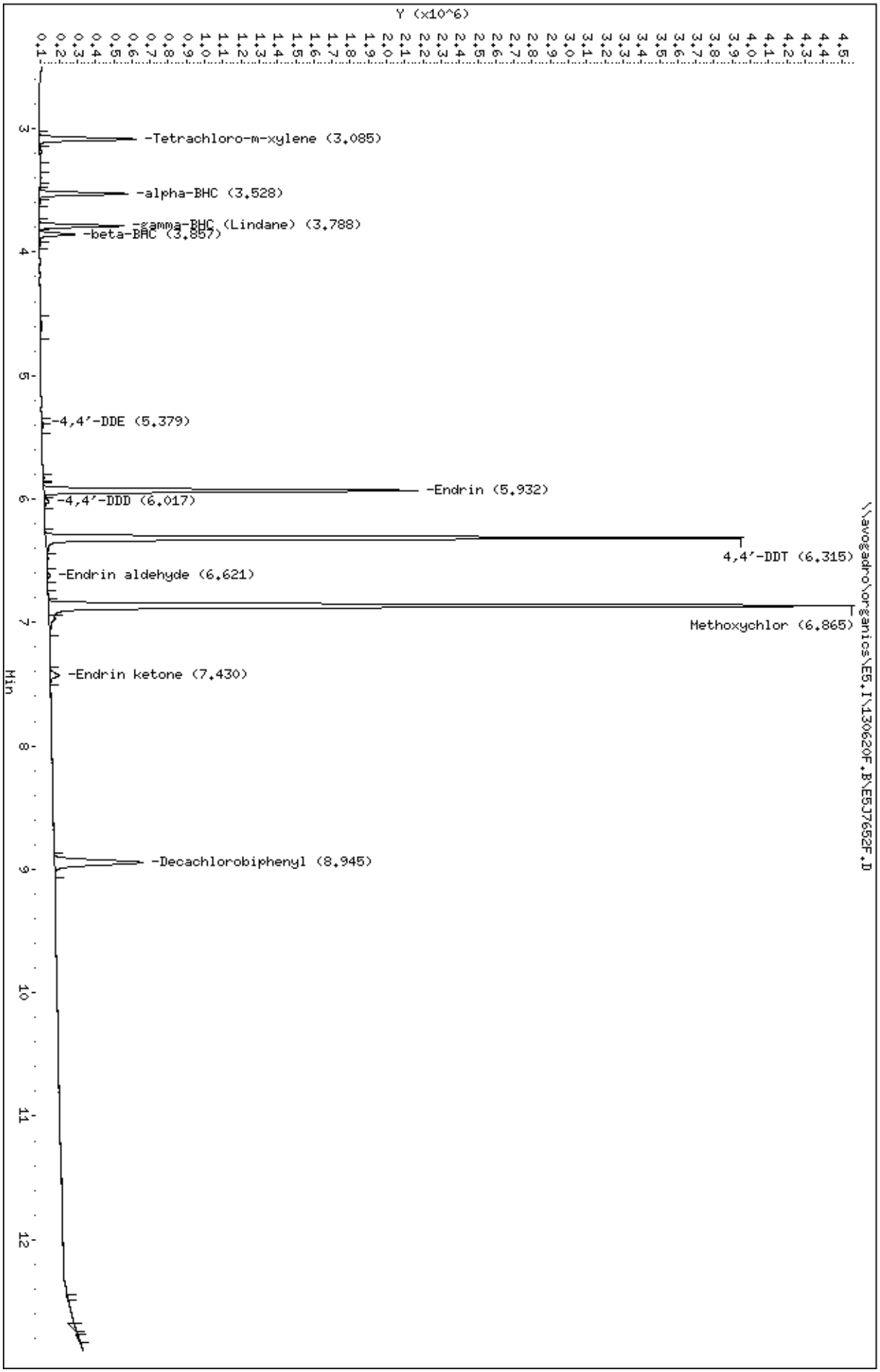
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.084	3.085	-0.001	933637	0.02071	0.021			
6 alpha-BHC						CAS #: 319-84-6		
3.527	3.527	0.000	482421	0.00987	0.0099			
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
3.787	3.786	0.001	712902	0.00978	0.0098			
10 beta-BHC						CAS #: 319-85-7		
3.857	3.855	0.002	316572	0.01059	0.010			
18 4,4'-DDE						CAS #: 72-55-9		
5.378	5.371	0.007	6754	2e-004	0.00018			(a)
20 Endrin						CAS #: 72-20-8		
5.932	5.926	0.006	2053607	0.05430	0.054			
21 4,4'-DDD						CAS #: 72-54-8		
6.017	6.004	0.013	54329	0.00108	0.0011			(a)

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7652F.D
Report Date: 25-Jun-2013 10:20

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	
23 4,4'-DDT					CAS #: 50-29-3			
6.315	6.310	0.005	6441598	0.11346	0.11			
24 Endrin aldehyde					CAS #: 7421-93-4			
6.621	6.616	0.005	17728	0.00062	0.00062			(a)
26 Methoxychlor					CAS #: 72-43-5			
6.864	6.860	0.004	8158919	0.27952	0.28			
27 Endrin ketone					CAS #: 53494-70-5			
7.429	7.427	0.002	48756	0.00127	0.0013			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
8.944	8.944	0.000	1406571	0.02188	0.022			

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\avogadro\organics\E5.I\130620F.B\E5J7652F.D
Date : 20-JUN-2013 19:18
Client ID: PEMJB
Sample Info: PEMJB,PEMJB,,pem,sub,pem,spk,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7652R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620R.B\E5J7652R.D
Lab Smp Id: PEMJB Client Smp ID: PEMJB
Inj Date : 20-JUN-2013 19:18
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : PEMJB,PEMJB,,pem.sub,pem.spk,
Misc Info : 3,,PEM,1,,1000,,
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pem.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

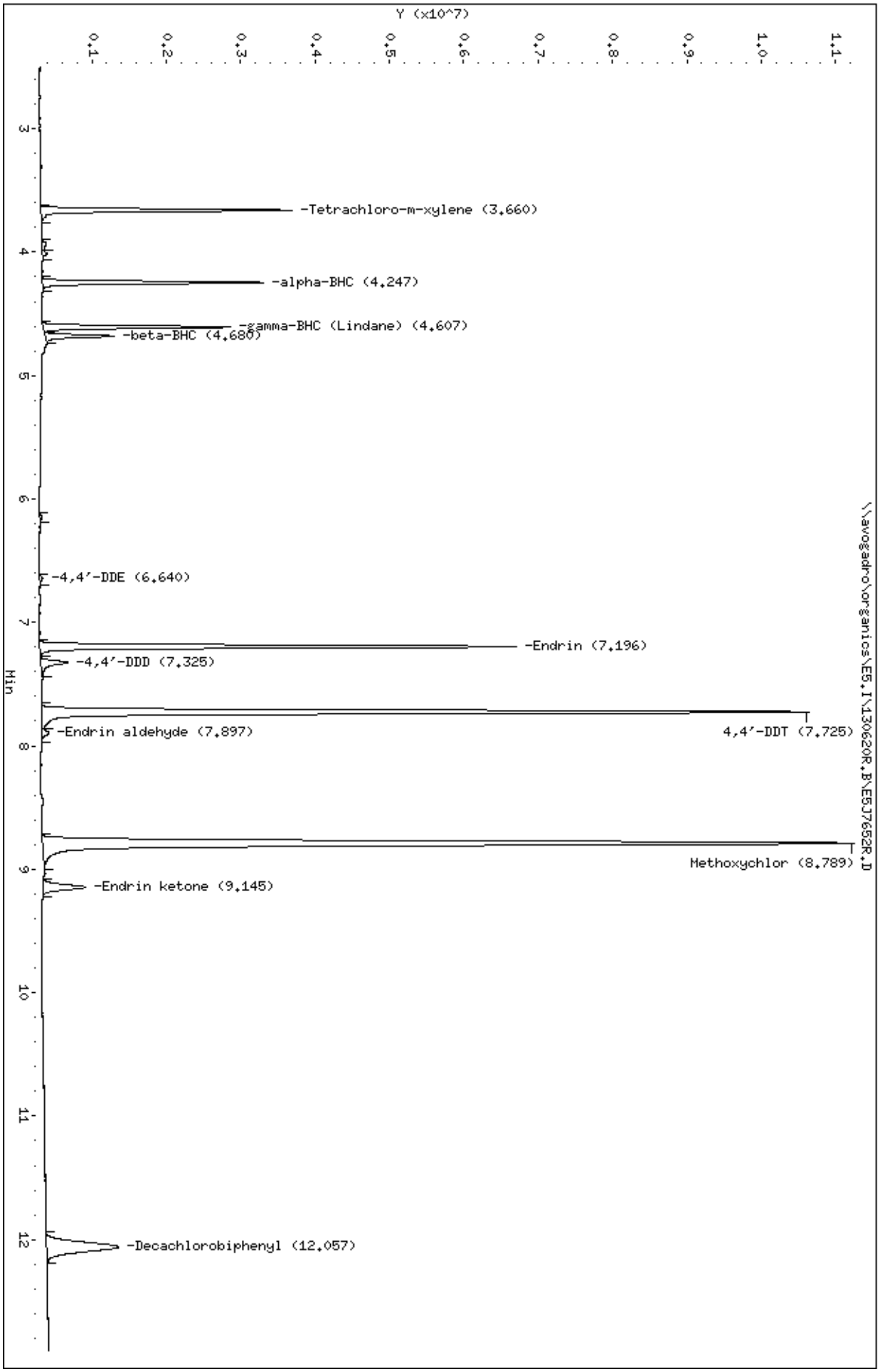
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.660	3.661	-0.001	3369539	0.02234	0.022			
6 alpha-BHC					CAS #: 319-84-6			
4.247	4.246	0.001	4641074	0.01042	0.010			
7 gamma-BHC (Lindane)					CAS #: 58-89-9			
4.607	4.606	0.001	4025605	0.01037	0.010			
10 beta-BHC					CAS #: 319-85-7			
4.680	4.679	0.001	1568957	0.00951	0.0095			
18 4,4'-DDE					CAS #: 72-55-9			
6.639	6.630	0.009	98924	4e-004	0.00039			(a)
20 Endrin					CAS #: 72-20-8			
7.196	7.193	0.003	6404935	0.05317	0.053			
21 4,4'-DDD					CAS #: 72-54-8			
7.324	7.317	0.007	933056	0.00460	0.0046			(a)

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7652R.D
Report Date: 25-Jun-2013 10:21

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	
23 4,4'-DDT					CAS #: 50-29-3			
7.725	7.724	0.001	21798501	0.11711	0.12			
24 Endrin aldehyde					CAS #: 7421-93-4			
7.897	7.896	0.001	102690	0.00129	0.0013			(a)
26 Methoxychlor					CAS #: 72-43-5			
8.788	8.789	-0.001	29997283	0.29032	0.29			
27 Endrin ketone					CAS #: 53494-70-5			
9.145	9.153	-0.008	568587	0.00619	0.0062			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
12.057	12.065	-0.008	5161956	0.02172	0.022			

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\avogadro\organics\E5.i\130620R.B\E5J7652R.D
Date : 20-JUN-2013 19:18
Client ID: PEMJB
Sample Info: PEMJB,PEMJB,,pem,sub,pem,spk,
Volume Injected (uL): 1.0
Column phase: CLPPestII
Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53
Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
Min
3
4
5
6
7
8
9
10
11
12
-Tetrachloro-m-xylene (3.660)
-alpha-BHC (4.247)
-gamma-BHC (Lindane) (4.607)
-beta-BHC (4.680)
-4,4'-DDE (6.640)
-Endrin (7.196)
-4,4'-DDD (7.325)
-Endrin aldehyde (7.897)
4,4'-DDT (7.725)
Methoxychlor (8.789)
-Endrin ketone (9.145)
-Decachlorobiphenyl (12.057)
\\avogadro\organics\E5.i\130620R.B\E5J7652R.D

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7653F.D
Report Date: 25-Jun-2013 10:20

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620F.B\E5J7653F.D
Lab Smp Id: INDC3JB Client Smp ID: INDC3JB
Inj Date : 20-JUN-2013 19:35
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : INDC3JB,INDC3JB,,indA.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

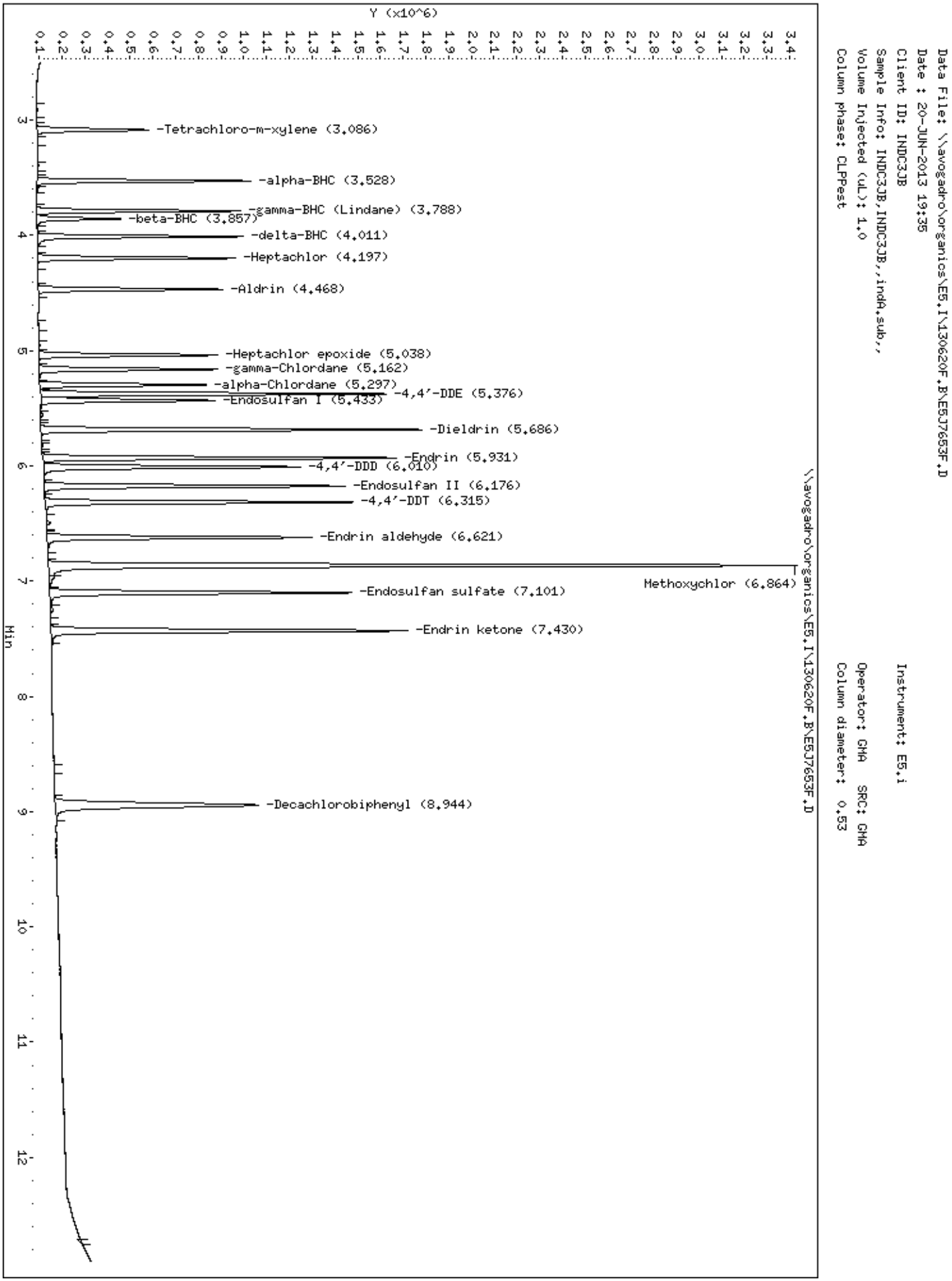
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.085	3.085	0.000	863048	0.02000	0.019			(a)
6 alpha-BHC						CAS #: 319-84-6		
3.528	3.527	0.001	938440	0.02000	0.019			(a)
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
3.788	3.786	0.002	1375040	0.02000	0.019			(a)
10 beta-BHC						CAS #: 319-85-7		
3.857	3.855	0.002	585614	0.02000	0.020			(a)
11 delta-BHC						CAS #: 319-86-8		
4.010	4.008	0.002	1403126	0.02000	0.019			(a)
8 Heptachlor						CAS #: 76-44-8		
4.197	4.195	0.002	1400026	0.02000	0.019			(a)
9 Aldrin						CAS #: 309-00-2		
4.468	4.465	0.003	1301490	0.02000	0.019			(a)

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7653F.D
Report Date: 25-Jun-2013 10:20

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
5.038	5.035	0.003	1290337	0.02000	0.019			(a)
16 gamma-Chlordane						CAS #: 5103-74-2		
5.162	5.158	0.004	783935	0.02000	0.019			(a)
17 alpha-Chlordane						CAS #: 5103-71-9		
5.297	5.292	0.005	1194489	0.02000	0.018			(a)
18 4,4'-DDE						CAS #: 72-55-9		
5.375	5.371	0.004	1515733	0.04000	0.041			(a)
15 Endosulfan I						CAS #: 959-98-8		
5.433	5.429	0.004	765371	0.02000	0.019			(a)
19 Dieldrin						CAS #: 60-57-1		
5.685	5.680	0.005	2828098	0.04000	0.040			(a)
20 Endrin						CAS #: 72-20-8		
5.931	5.926	0.005	1556265	0.04000	0.041			(a)
21 4,4'-DDD						CAS #: 72-54-8		
6.009	6.004	0.005	2019933	0.04000	0.040			(a)
22 Endosulfan II						CAS #: 33213-65-9		
6.175	6.169	0.006	2292427	0.04000	0.039			(a)
23 4,4'-DDT						CAS #: 50-29-3		
6.314	6.310	0.004	2340787	0.04000	0.041			(a)
24 Endrin aldehyde						CAS #: 7421-93-4		
6.620	6.616	0.004	1166496	0.04000	0.041			(a)
26 Methoxychlor						CAS #: 72-43-5		
6.863	6.860	0.003	6057920	0.20000	0.21			(a)
25 Endosulfan sulfate						CAS #: 1031-07-8		
7.100	7.096	0.004	2457718	0.04000	0.042			(a)
27 Endrin ketone						CAS #: 53494-70-5		
7.429	7.427	0.002	1571445	0.04000	0.041			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
8.943	8.944	-0.001	2615955	0.04000	0.041			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\avogadro\organics\E5.i\130620F.B\E5J7653F.D
Date : 20-JUN-2013 19:35
Client ID: INDC3JB
Sample Info: INDC3JB,INDC3JB,,indA,sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest
Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53
Y (x10^6)
Min
-Tetrachloro-m-xylene (3.086)
-alpha-BHC (3.528)
-gamma-BHC (Lindane) (3.788)
-beta-BHC (3.857)
-delta-BHC (4.011)
-Heptachlor (4.197)
-Aldrin (4.468)
-Heptachlor epoxide (5.038)
-gamma-Chlordane (5.162)
-alpha-Chlordane (5.297)
-4,4'-DDE (5.376)
-Endosulfan I (5.433)
-Dieldrin (5.686)
-Endrin (5.931)
-4,4'-DDD (6.010)
-Endosulfan II (6.176)
-4,4'-DDT (6.315)
-Endrin aldehyde (6.621)
Methoxychlor (6.864)
-Endosulfan sulfate (7.101)
-Endrin ketone (7.430)
-Decachlorobiphenyl (8.944)
\\avogadro\organics\E5.i\130620F.B\E5J7653F.D

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7653R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620R.B\E5J7653R.D
Lab Smp Id: INDC3JB Client Smp ID: INDC3JB
Inj Date : 20-JUN-2013 19:35
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : INDC3JB,INDC3JB,,indA.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

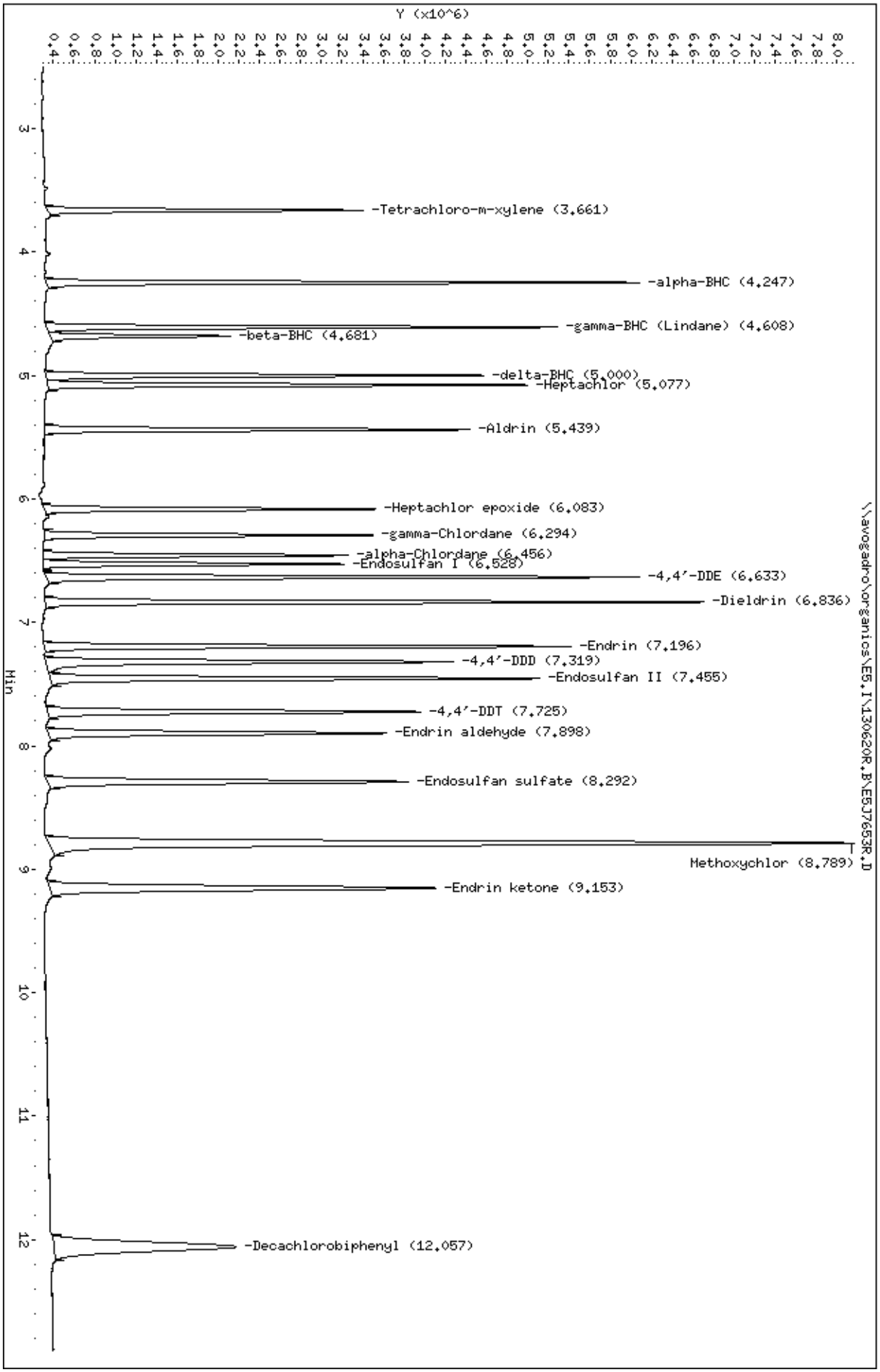
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
3.661	3.661	0.000	3059418	0.02000	0.020			(a)
6 alpha-BHC						CAS #: 319-84-6		
4.247	4.246	0.001	8821125	0.02000	0.020			(a)
7 gamma-BHC (Lindane)						CAS #: 58-89-9		
4.608	4.606	0.002	7715498	0.02000	0.020			(a)
10 beta-BHC						CAS #: 319-85-7		
4.680	4.679	0.001	2857574	0.02000	0.017			(a)
11 delta-BHC						CAS #: 319-86-8		
4.999	4.997	0.002	7064595	0.02000	0.020			(a)
8 Heptachlor						CAS #: 76-44-8		
5.077	5.075	0.002	7821751	0.02000	0.020			(a)
9 Aldrin						CAS #: 309-00-2		
5.438	5.435	0.003	7011492	0.02000	0.020			(a)

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7653R.D
Report Date: 25-Jun-2013 10:21

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
14 Heptachlor epoxide						CAS #: 1024-57-3		
6.083	6.080	0.003	5548003	0.02000	0.020			(a)
16 gamma-Chlordane						CAS #: 5103-74-2		
6.293	6.290	0.003	5401215	0.02000	0.020			(a)
17 alpha-Chlordane						CAS #: 5103-71-9		
6.456	6.453	0.003	4998760	0.02000	0.020			(a)
18 4,4'-DDE						CAS #: 72-55-9		
6.633	6.630	0.003	9992208	0.04000	0.040			(a)
15 Endosulfan I						CAS #: 959-98-8		
6.528	6.525	0.003	2910848	0.02000	0.020			(a)
19 Dieldrin						CAS #: 60-57-1		
6.835	6.834	0.001	10892555	0.04000	0.040			(a)
20 Endrin						CAS #: 72-20-8		
7.195	7.193	0.002	5112415	0.04000	0.042			(a)
21 4,4'-DDD						CAS #: 72-54-8		
7.318	7.317	0.001	8295100	0.04000	0.041			(a)
22 Endosulfan II						CAS #: 33213-65-9		
7.454	7.452	0.002	9153259	0.04000	0.039			(a)
23 4,4'-DDT						CAS #: 50-29-3		
7.724	7.724	0.000	7411401	0.04000	0.040			(a)
24 Endrin aldehyde						CAS #: 7421-93-4		
7.898	7.896	0.002	3282947	0.04000	0.041			(a)
26 Methoxychlor						CAS #: 72-43-5		
8.788	8.789	-0.001	21187078	0.20000	0.20			(a)
25 Endosulfan sulfate						CAS #: 1031-07-8		
8.292	8.290	0.002	7952984	0.04000	0.040			(a)
27 Endrin ketone						CAS #: 53494-70-5		
9.153	9.153	0.000	3745258	0.04000	0.041			(a)
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3		
12.057	12.065	-0.008	9168091	0.04000	0.038			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\avogadro\organics\E5.i\130620R.B\E5J7653R.D
Date : 20-JUN-2013 19:35
Client ID: INDC3JB
Sample Info: INDC3JB,INDC3JB,,indA,sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E5.i
Operator: GMA SRC: GMA
Column diameter: 0.53

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7654F.D
Report Date: 25-Jun-2013 10:20

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620F.B\E5J7654F.D
Lab Smp Id: TOXAPH3JB Client Smp ID: TOXAPH3JB
Inj Date : 20-JUN-2013 19:53
Operator : GMA   SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH3JB,TOXAPH3JB,,somtox.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

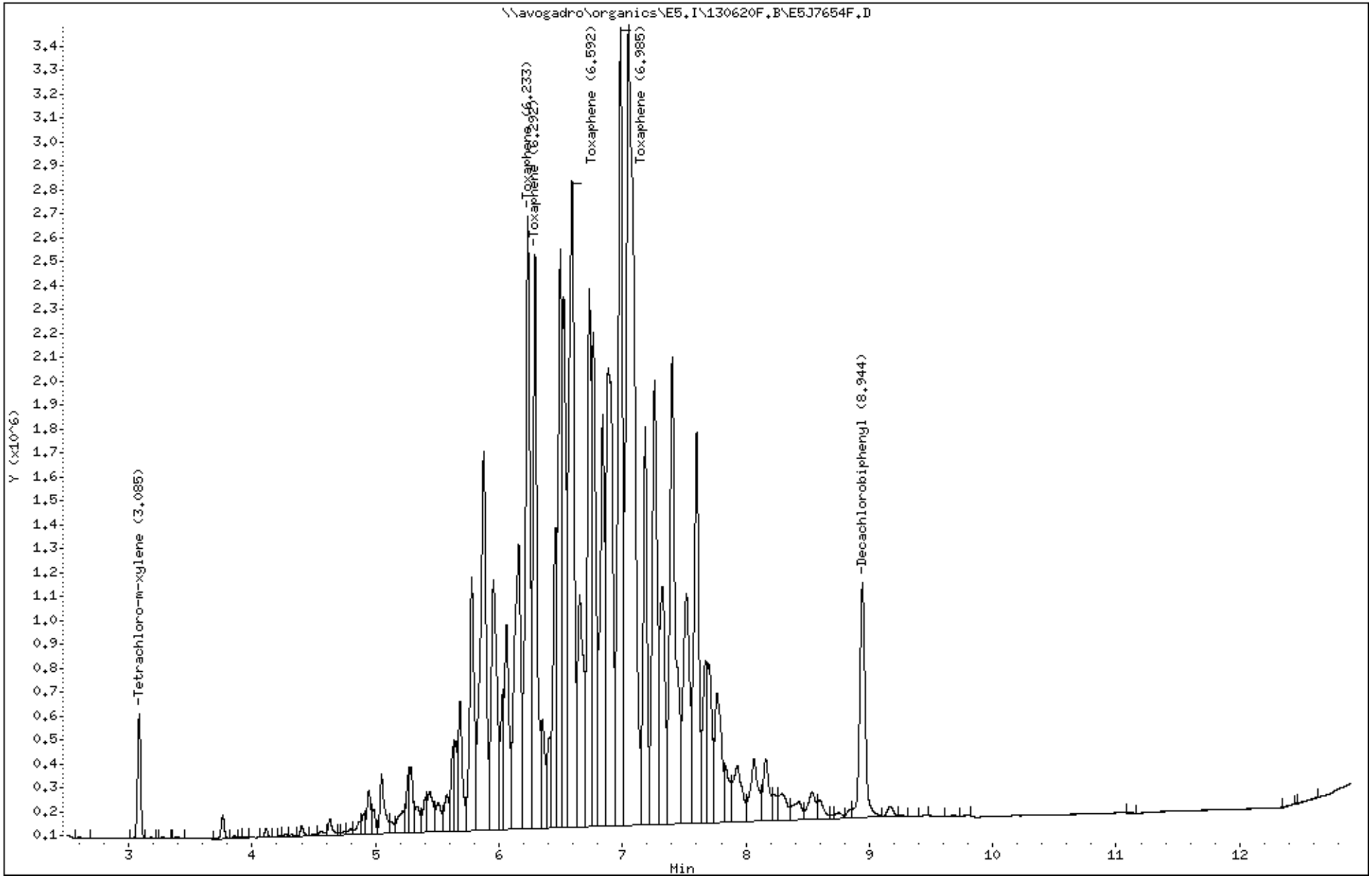
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.084	3.085	-0.001	907817	0.02000	0.020			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
8.943	8.944	-0.001	3096440	0.04000	0.048			(a)
28 Toxaphene					CAS #: 8001-35-2			
6.232	6.230	0.002	2559515	2.00000	2.1	80.00- 120.00	100.00	(a)
6.292	6.289	0.003	2399908	2.00000	2.2	71.80- 111.80	93.76	
6.592	6.590	0.002	2702021	2.00000	2.1	84.37- 124.37	105.57	
6.984	6.982	0.002	3334639	2.00000	2.2	132.26- 172.26	130.28	
Average of Peak Amounts =					2.15000			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7654F.D
Date : 20-JUN-2013 19:53
Client ID: TOXAPH3JB
Instrument: E5.i
Sample Info: TOXAPH3JB,TOXAPH3JB,,somtox.sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130620R.B\E5J7654R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620R.B\E5J7654R.D
Lab Smp Id: TOXAPH3JB Client Smp ID: TOXAPH3JB
Inj Date : 20-JUN-2013 19:53
Operator : GMA SRC: GMA Inst ID: E5.i
Smp Info : TOXAPH3JB,TOXAPH3JB,,somtox.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

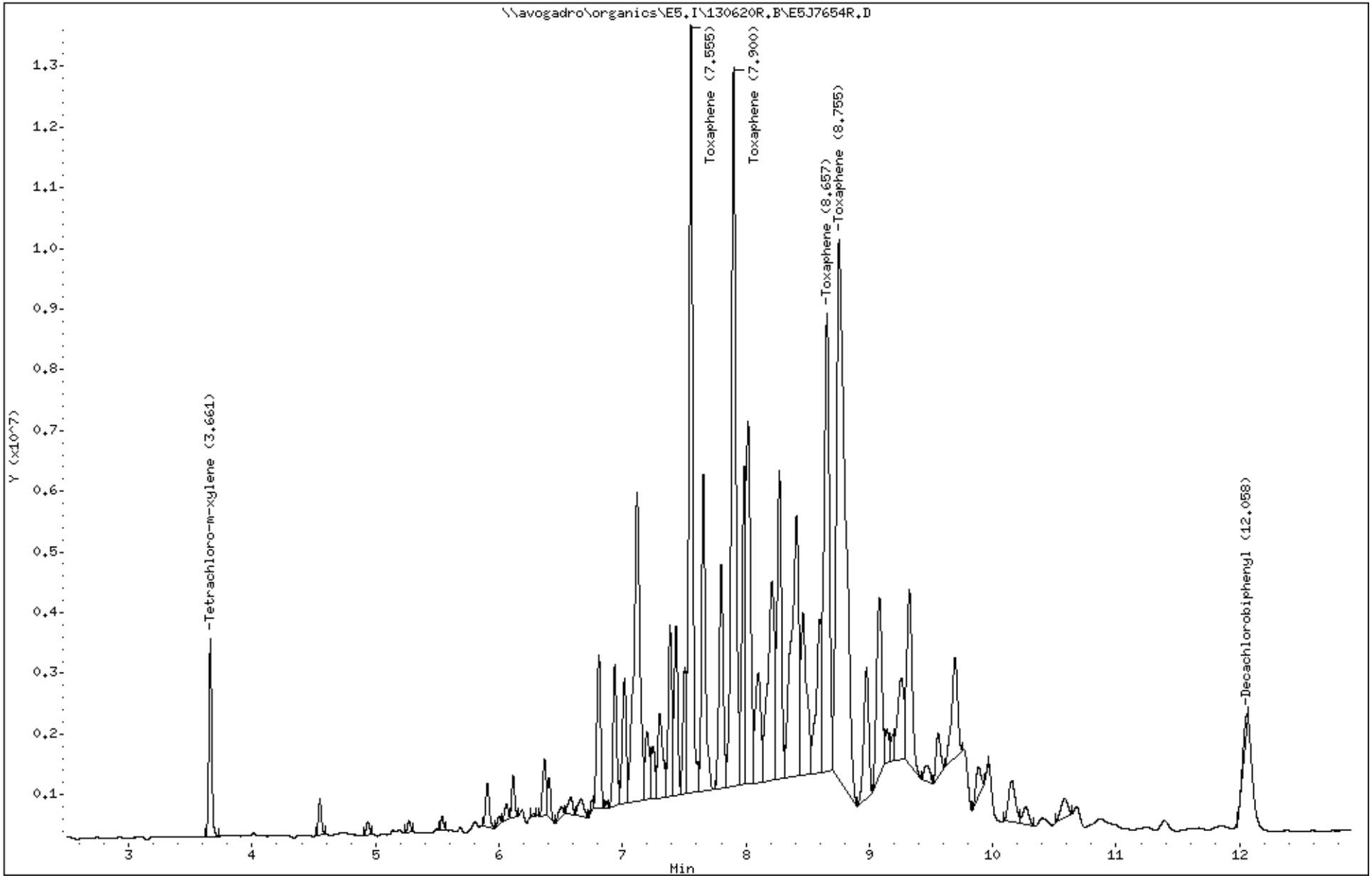
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.661	3.661	0.000	3264865	0.02000	0.022			(a)
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3			
12.057	12.065	-0.008	652697	0.04000	0.0027			(a)
28 Toxaphene					CAS #: 8001-35-2			
7.555	7.555	0.000	12648418	2.00000	2.2	80.00- 120.00	100.00	(a)
7.900	7.900	0.000	11837500	2.00000	2.2	74.20- 114.20	93.59	
8.657	8.656	0.001	7546931	2.00000	2.1	40.64- 80.64	59.67	
8.755	8.756	-0.001	8903759	2.00000	2.2	49.81- 89.81	70.39	
Average of Peak Amounts =					2.17500			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E5.i\130620R.B\E5J7654R.D
Date : 20-JUN-2013 19:53
Client ID: TOXAPH3JB
Instrument: E5.i
Sample Info: TOXAPH3JB,TOXAPH3JB,,somtox,sub,,
Volume Injected (uL): 1.0
Operator: GMA SRC: GMA
Column phase: CLPPestII
Column diameter: 0.53



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-72288

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-72288

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E5J7636F.D/E5J7636R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4´-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4´-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4´-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7636F.D
Report Date: 25-Jun-2013 10:19

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

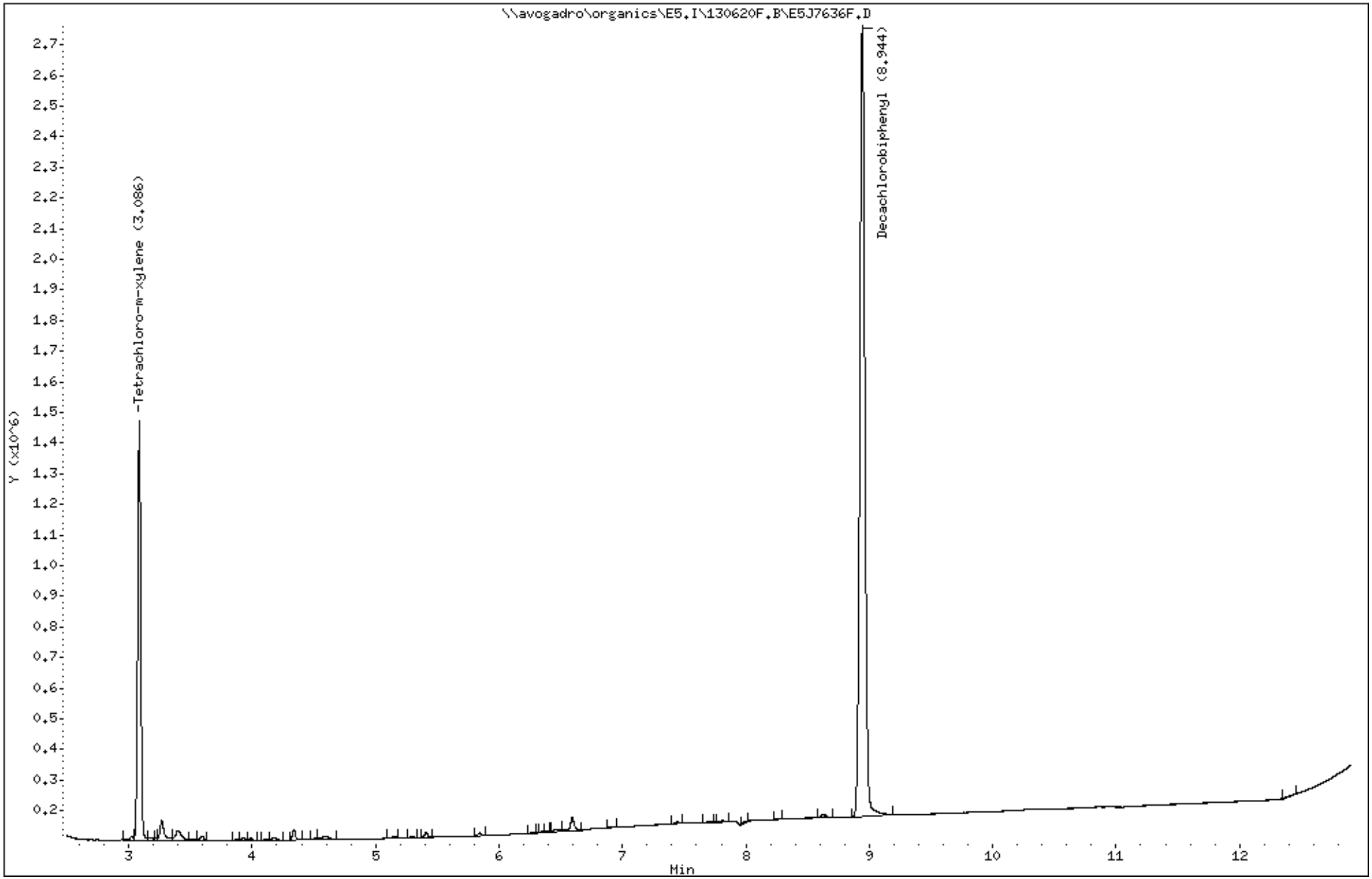
Data file : \\avogadro\organics\E5.I\130620F.B\E5J7636F.D
Lab Smp Id: MB-72288 Client Smp ID: MB-72288
Inj Date : 20-JUN-2013 14:36
Operator : GMA SRC: LIMS Inst ID: E5.i
Smp Info : MB-72288,MB-72288,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 20 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.086	3.085	0.001	2408524	0.05342		18	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
8.943	8.944	-0.001	7422333	0.11545		38	

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7636F.D
Date : 20-JUN-2013 14:36
Client ID: MB-72288
Instrument: E5.i
Sample Info: MB-72288,MB-72288,72288,8081G.SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPest
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\130620R.B\E5J7636R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

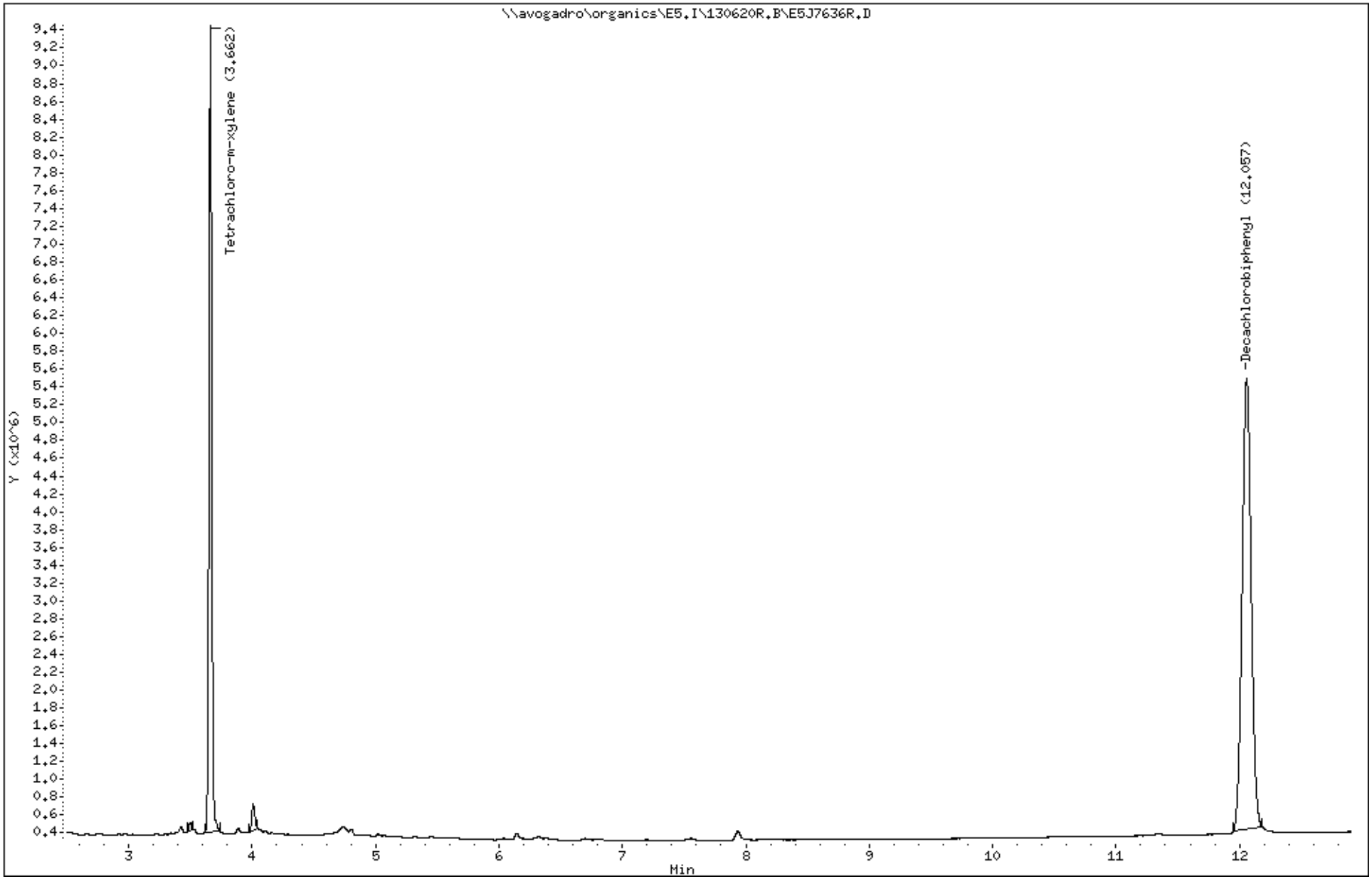
Data file : \\avogadro\organics\E5.I\130620R.B\E5J7636R.D
Lab Smp Id: MB-72288 Client Smp ID: MB-72288
Inj Date : 20-JUN-2013 14:36
Operator : GMA SRC: LIMS Inst ID: E5.i
Smp Info : MB-72288,MB-72288,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 20 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.661	3.661	0.000	9040804	0.05994	20		
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3		
12.056	12.065	-0.009	25727939	0.10827	36		

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7636R.D
Date : 20-JUN-2013 14:36
Client ID: MB-72288
Instrument: E5.i
Sample Info: MB-72288,MB-72288,72288,8081G.SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.53



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-72288(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-72288

Sample wt/vol: 30 (g/mL) G Lab File ID: E5J7637F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.8	
319-85-7	beta-BHC	6.1	
319-86-8	delta-BHC	6.1	
58-89-9	gamma-BHC (Lindane)	5.8	
76-44-8	Heptachlor	6.0	
309-00-2	Aldrin	5.8	
1024-57-3	Heptachlor epoxide	6.0	
959-98-8	Endosulfan I	5.9	
60-57-1	Dieldrin	13	
72-55-9	4,4´-DDE	13	
72-20-8	Endrin	13	
33213-65-9	Endosulfan II	12	
72-54-8	4,4´-DDD	12	
1031-07-8	Endosulfan sulfate	13	
50-29-3	4,4´-DDT	13	
72-43-5	Methoxychlor	67	
53494-70-5	Endrin ketone	13	
7421-93-4	Endrin aldehyde	13	
5103-71-9	alpha-Chlordane	5.9	
5103-74-2	gamma-Chlordane	5.9	
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-72288(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-72288

Sample wt/vol: 30 (g/mL) G Lab File ID: E5J7637R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.2	
319-85-7	beta-BHC	5.4	
319-86-8	delta-BHC	6.5	
58-89-9	gamma-BHC (Lindane)	6.1	
76-44-8	Heptachlor	6.2	
309-00-2	Aldrin	6.0	
1024-57-3	Heptachlor epoxide	6.1	
959-98-8	Endosulfan I	6.0	
60-57-1	Dieldrin	13	
72-55-9	4,4´-DDE	12	
72-20-8	Endrin	14	
33213-65-9	Endosulfan II	12	
72-54-8	4,4´-DDD	13	
1031-07-8	Endosulfan sulfate	13	
50-29-3	4,4´-DDT	13	
72-43-5	Methoxychlor	66	
53494-70-5	Endrin ketone	12	
7421-93-4	Endrin aldehyde	13	
5103-71-9	alpha-Chlordane	6.1	
5103-74-2	gamma-Chlordane	6.2	
8001-35-2	Toxaphene	170	U

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7637F.D
Report Date: 25-Jun-2013 10:19

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620F.B\E5J7637F.D
Lab Smp Id: LCS-72288 Client Smp ID: LCS-72288
Inj Date : 20-JUN-2013 14:56
Operator : GMA SRC: LIMS Inst ID: E5.i
Smp Info : LCS-72288,LCS-72288,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 21 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET106

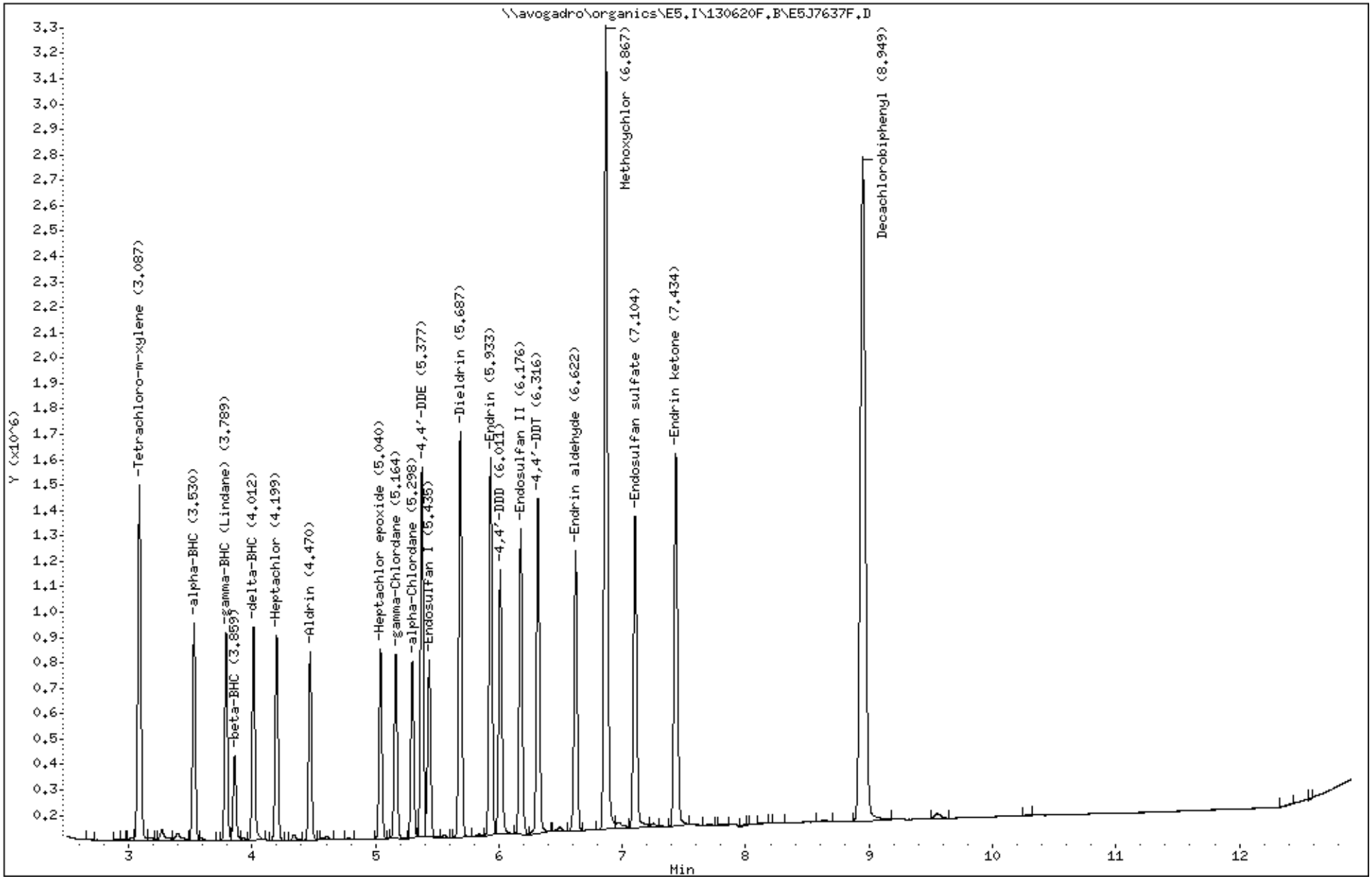
Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.086	3.085	0.001	2458019	0.05452		18	
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
8.948	8.944	0.004	7521130	0.11698		39	
6 alpha-BHC						CAS #: 319-84-6	
3.530	3.527	0.003	855217	0.01751	5.8		
7 gamma-BHC (Lindane)						CAS #: 58-89-9	
3.789	3.786	0.003	1273761	0.01747	5.8		
8 Heptachlor						CAS #: 76-44-8	
4.198	4.195	0.003	1323760	0.01785	6.0		
9 Aldrin						CAS #: 309-00-2	
4.470	4.465	0.005	1206506	0.01751	5.8		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
10 beta-BHC					CAS #: 319-85-7		
3.858	3.855	0.003	546336	0.01827	6.1		
11 delta-BHC					CAS #: 319-86-8		
4.011	4.008	0.003	1333320	0.01840	6.1		
14 Heptachlor epoxide					CAS #: 1024-57-3		
5.040	5.035	0.005	1209657	0.01810	6.0		
15 Endosulfan I					CAS #: 959-98-8		
5.435	5.429	0.006	697925	0.01760	5.9		
16 gamma-Chlordane					CAS #: 5103-74-2		
5.164	5.158	0.006	724767	0.01779	5.9		
17 alpha-Chlordane					CAS #: 5103-71-9		
5.297	5.292	0.005	1147665	0.01781	5.9		
18 4,4'-DDE					CAS #: 72-55-9		
5.376	5.371	0.005	1455599	0.03972	13		
19 Dieldrin					CAS #: 60-57-1		
5.686	5.680	0.006	2689229	0.03775	12		
20 Endrin					CAS #: 72-20-8		
5.932	5.926	0.006	1481762	0.03918	13		
21 4,4'-DDD					CAS #: 72-54-8		
6.011	6.004	0.007	1870588	0.03703	12		
22 Endosulfan II					CAS #: 33213-65-9		
6.176	6.169	0.007	2108717	0.03617	12		
23 4,4'-DDT					CAS #: 50-29-3		
6.316	6.310	0.006	2274445	0.04006	13		
24 Endrin aldehyde					CAS #: 7421-93-4		
6.621	6.616	0.005	1104053	0.03860	13		
25 Endosulfan sulfate					CAS #: 1031-07-8		
7.103	7.096	0.007	2332767	0.04013	13		
26 Methoxychlor					CAS #: 72-43-5		
6.866	6.860	0.006	5870489	0.20112	67		
27 Endrin ketone					CAS #: 53494-70-5		
7.433	7.427	0.006	1465106	0.03814	13		

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7637F.D
Date : 20-JUN-2013 14:56
Client ID: LCS-72288
Instrument: E5.i
Sample Info: LCS-72288,LCS-72288,72288,8081G.SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPest
Column diameter: 0.53



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Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620R.B\E5J7637R.D
Lab Smp Id: LCS-72288 Client Smp ID: LCS-72288
Inj Date : 20-JUN-2013 14:56
Operator : GMA SRC: LIMS Inst ID: E5.i
Smp Info : LCS-72288,LCS-72288,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 21 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

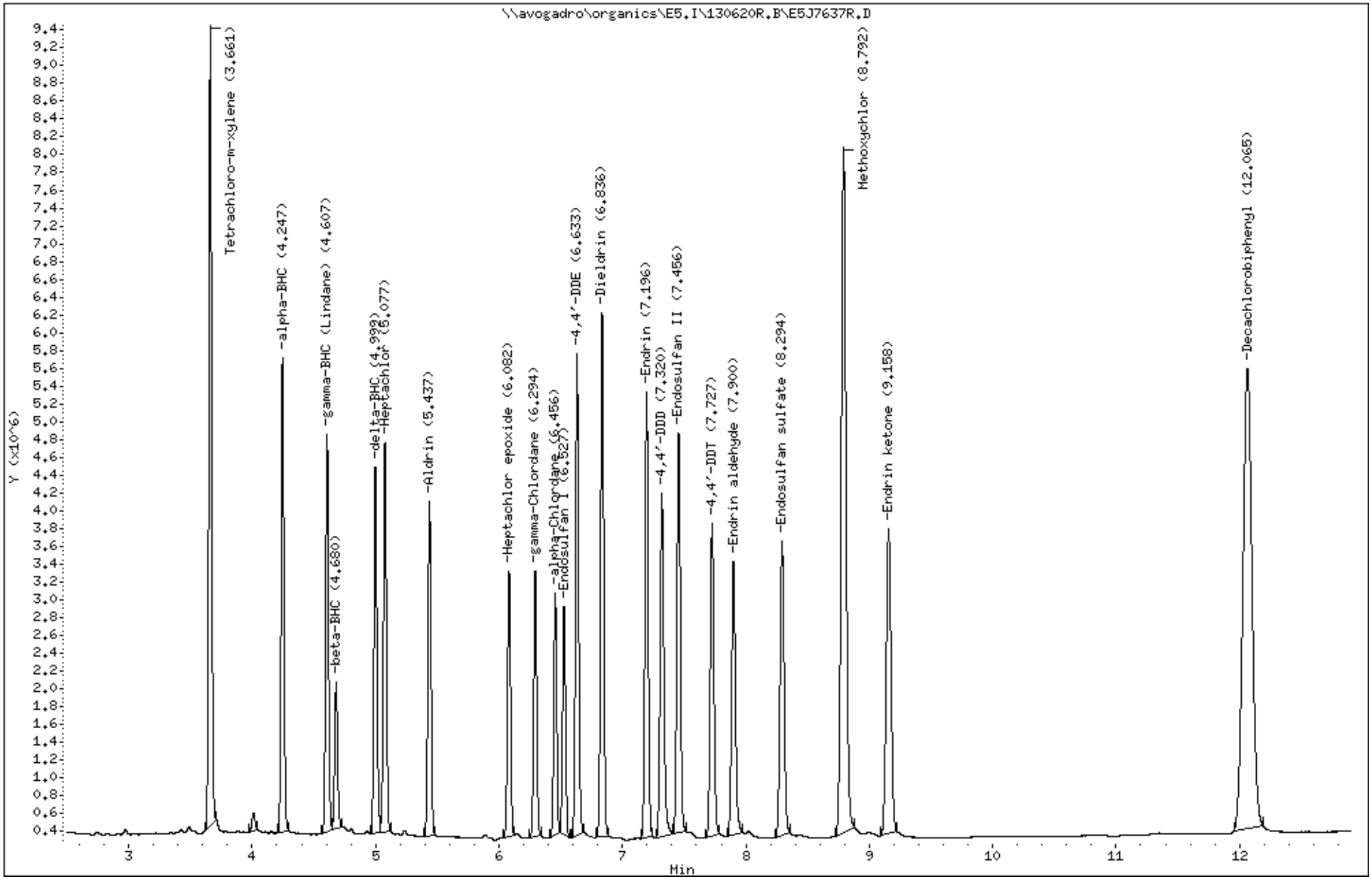
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.661	3.661	0.000	8990790	0.05961	20		
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
12.065	12.065	0.000	26397675	0.11108	37		
6 alpha-BHC						CAS #: 319-84-6	
4.246	4.246	0.000	8233487	0.01848	6.2		
7 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.606	4.606	0.000	7096701	0.01828	6.1		
8 Heptachlor						CAS #: 76-44-8	
5.076	5.075	0.001	7387910	0.01861	6.2		
9 Aldrin						CAS #: 309-00-2	
5.436	5.435	0.001	6425125	0.01813	6.0		
10 beta-BHC						CAS #: 319-85-7	
4.680	4.679	0.001	2659975	0.01612	5.4		

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7637R.D
Report Date: 25-Jun-2013 10:21

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
11 delta-BHC					CAS #: 319-86-8		
4.998	4.997	0.001	6705221	0.01941	6.5		
14 Heptachlor epoxide					CAS #: 1024-57-3		
6.081	6.080	0.001	5169452	0.01839	6.1		
15 Endosulfan I					CAS #: 959-98-8		
6.526	6.525	0.001	2562559	0.01798	6.0		
16 gamma-Chlordane					CAS #: 5103-74-2		
6.293	6.290	0.003	5063624	0.01866	6.2		
17 alpha-Chlordane					CAS #: 5103-71-9		
6.456	6.453	0.003	4503349	0.01825	6.1		
18 4,4'-DDE					CAS #: 72-55-9		
6.632	6.630	0.002	9349075	0.03713	12		
19 Dieldrin					CAS #: 60-57-1		
6.836	6.834	0.002	10154973	0.03761	12		
20 Endrin					CAS #: 72-20-8		
7.196	7.193	0.003	5005326	0.04155	14		
21 4,4'-DDD					CAS #: 72-54-8		
7.320	7.317	0.003	8029978	0.03957	13		
22 Endosulfan II					CAS #: 33213-65-9		
7.456	7.452	0.004	8723833	0.03707	12		
23 4,4'-DDT					CAS #: 50-29-3		
7.726	7.724	0.002	7295064	0.03919	13		
24 Endrin aldehyde					CAS #: 7421-93-4		
7.900	7.896	0.004	3071191	0.03857	13		
25 Endosulfan sulfate					CAS #: 1031-07-8		
8.293	8.290	0.003	7496204	0.03783	13		
26 Methoxychlor					CAS #: 72-43-5		
8.791	8.789	0.002	20563366	0.19901	66		
27 Endrin ketone					CAS #: 53494-70-5		
9.157	9.153	0.004	3426870	0.03732	12		

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7637R.D
Date : 20-JUN-2013 14:56
Client ID: LCS-72288
Instrument: E5.i
Sample Info: LCS-72288,LCS-72288,72288,8081G.SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.53



1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-72288(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-72288

Sample wt/vol: 30 (g/mL) G Lab File ID: E5J7638F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.9	
319-85-7	beta-BHC	6.2	
319-86-8	delta-BHC	6.2	
58-89-9	gamma-BHC (Lindane)	5.9	
76-44-8	Heptachlor	6.1	
309-00-2	Aldrin	5.9	
1024-57-3	Heptachlor epoxide	6.0	
959-98-8	Endosulfan I	5.9	
60-57-1	Dieldrin	12	
72-55-9	4,4´-DDE	13	
72-20-8	Endrin	13	
33213-65-9	Endosulfan II	12	
72-54-8	4,4´-DDD	13	
1031-07-8	Endosulfan sulfate	13	
50-29-3	4,4´-DDT	13	
72-43-5	Methoxychlor	67	
53494-70-5	Endrin ketone	13	
7421-93-4	Endrin aldehyde	13	
5103-71-9	alpha-Chlordane	6.0	
5103-74-2	gamma-Chlordane	6.0	
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-72288(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-72288

Sample wt/vol: 30 (g/mL) G Lab File ID: E5J7638R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/20/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.1	
319-85-7	beta-BHC	5.3	
319-86-8	delta-BHC	6.4	
58-89-9	gamma-BHC (Lindane)	6.1	
76-44-8	Heptachlor	6.2	
309-00-2	Aldrin	6.1	
1024-57-3	Heptachlor epoxide	6.2	
959-98-8	Endosulfan I	6.1	
60-57-1	Dieldrin	13	
72-55-9	4,4´-DDE	12	
72-20-8	Endrin	14	
33213-65-9	Endosulfan II	12	
72-54-8	4,4´-DDD	13	
1031-07-8	Endosulfan sulfate	13	
50-29-3	4,4´-DDT	13	
72-43-5	Methoxychlor	66	
53494-70-5	Endrin ketone	13	
7421-93-4	Endrin aldehyde	13	
5103-71-9	alpha-Chlordane	6.1	
5103-74-2	gamma-Chlordane	6.3	
8001-35-2	Toxaphene	170	U

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7638F.D
Report Date: 25-Jun-2013 10:19

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620F.B\E5J7638F.D
Lab Smp Id: LCSD-72288 Client Smp ID: LCSD-72288
Inj Date : 20-JUN-2013 15:13
Operator : GMA SRC: LIMS Inst ID: E5.i
Smp Info : LCSD-72288,LCSD-72288,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620F.B\E58081f.m
Meth Date : 21-Jun-2013 08:35 gappolonia Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618F.D
Als bottle: 22 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET106

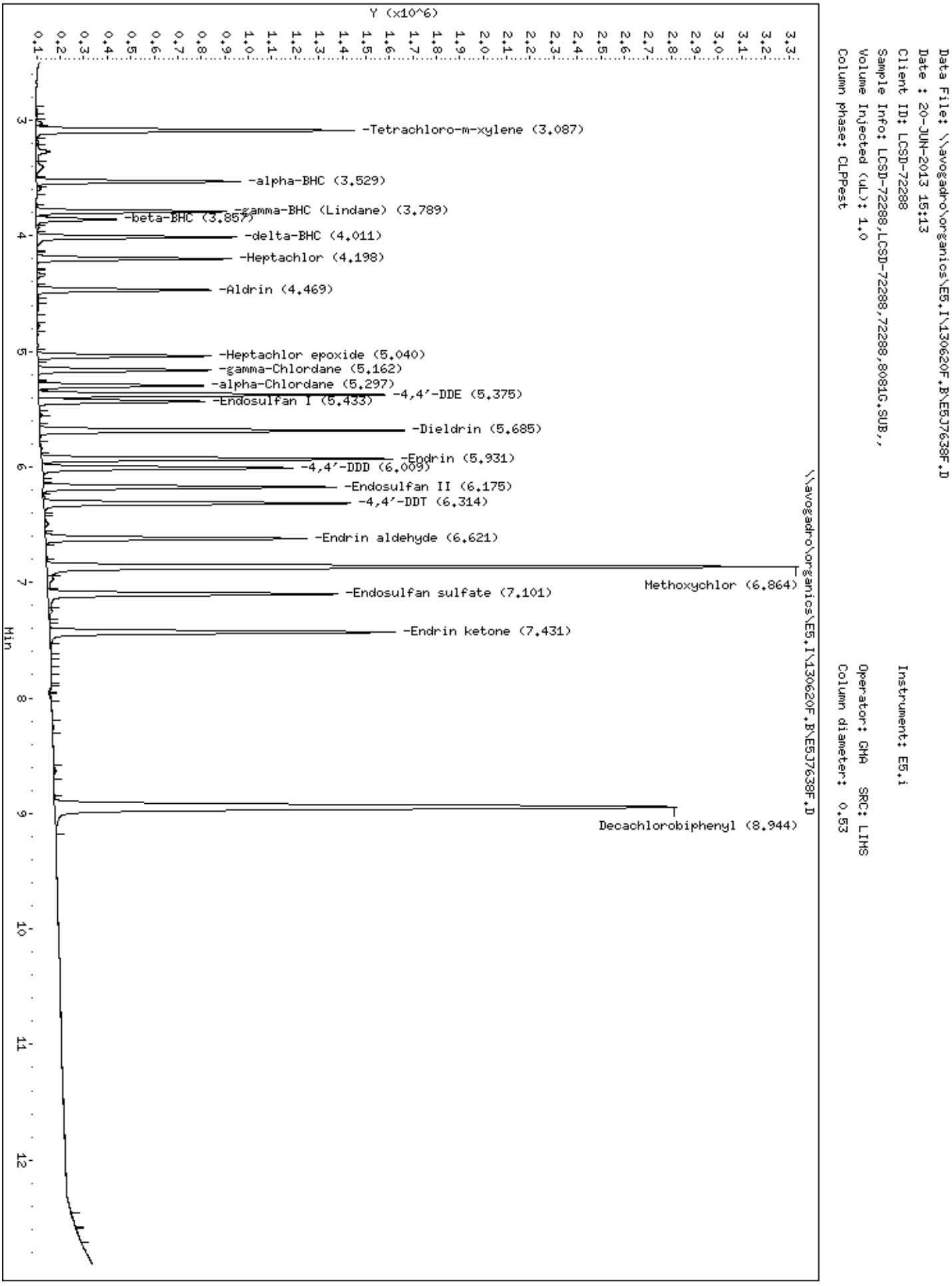
Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.087	3.085	0.002	2434278	0.05399	18		
$ 2 Decachlorobiphenyl					CAS #: 2051-24-3		
8.944	8.944	0.000	7557400	0.11755	39		
6 alpha-BHC					CAS #: 319-84-6		
3.529	3.527	0.002	870605	0.01782	5.9		
7 gamma-BHC (Lindane)					CAS #: 58-89-9		
3.789	3.786	0.003	1288212	0.01766	5.9		
8 Heptachlor					CAS #: 76-44-8		
4.198	4.195	0.003	1349041	0.01819	6.1		
9 Aldrin					CAS #: 309-00-2		
4.469	4.465	0.004	1222030	0.01773	5.9		

Data File: \\avogadro\organics\E5.I\130620F.B\E5J7638F.D
Report Date: 25-Jun-2013 10:19

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
10 beta-BHC					CAS #: 319-85-7		
3.857	3.855	0.002	559660	0.01872	6.2		
11 delta-BHC					CAS #: 319-86-8		
4.010	4.008	0.002	1358078	0.01874	6.2		
14 Heptachlor epoxide					CAS #: 1024-57-3		
5.039	5.035	0.004	1210123	0.01810	6.0		
15 Endosulfan I					CAS #: 959-98-8		
5.433	5.429	0.004	704488	0.01776	5.9		
16 gamma-Chlordane					CAS #: 5103-74-2		
5.162	5.158	0.004	735746	0.01806	6.0		
17 alpha-Chlordane					CAS #: 5103-71-9		
5.296	5.292	0.004	1157357	0.01796	6.0		
18 4,4'-DDE					CAS #: 72-55-9		
5.374	5.371	0.003	1472925	0.04019	13		
19 Dieldrin					CAS #: 60-57-1		
5.684	5.680	0.004	2640591	0.03706	12		
20 Endrin					CAS #: 72-20-8		
5.930	5.926	0.004	1495687	0.03955	13		
21 4,4'-DDD					CAS #: 72-54-8		
6.009	6.004	0.005	1907870	0.03777	12		
22 Endosulfan II					CAS #: 33213-65-9		
6.174	6.169	0.005	2159830	0.03704	12		
23 4,4'-DDT					CAS #: 50-29-3		
6.314	6.310	0.004	2277329	0.04011	13		
24 Endrin aldehyde					CAS #: 7421-93-4		
6.620	6.616	0.004	1112187	0.03888	13		
25 Endosulfan sulfate					CAS #: 1031-07-8		
7.100	7.096	0.004	2339397	0.04024	13		
26 Methoxychlor					CAS #: 72-43-5		
6.864	6.860	0.004	5897570	0.20205	67		
27 Endrin ketone					CAS #: 53494-70-5		
7.430	7.427	0.003	1468564	0.03823	13		


Data File: \\avogadro\organics\E5.i\130620F.B\E5J7638F.D
Date : 20-JUN-2013 15:13
Client ID: LCSD-72288
Sample Info: LCSD-72288,LCSD-72288,72288,8081G,SUB,,
Volume Injected (uL): 1.0
Column phase: CLPPest
Instrument: E5.i
Operator: GMA SRC: LIMS
Column diameter: 0.53
Y (x10^6)
Min
-Tetrachloro-m-xylene (3.087)
-alpha-BHC (3.529)
-gamma-BHC (Lindane) (3.789)
-beta-BHC (3.857)
-delta-BHC (4.011)
-Heptachlor (4.198)
-Aldrin (4.469)
-Heptachlor epoxide (5.040)
-gamma-Chlordane (5.162)
-alpha-Chlordane (5.297)
-4,4'-DDE (5.375)
-Endosulfan I (5.433)
-Dieldrin (5.685)
-Endrin (5.931)
-4,4'-DDD (6.009)
-Endosulfan II (6.175)
-4,4'-DDT (6.314)
-Endrin aldehyde (6.621)
Methoxychlor (6.864)
-Endosulfan sulfate (7.101)
-Endrin ketone (7.431)
Decachlorobiphenyl (8.944)
\\avogadro\organics\E5.i\130620F.B\E5J7638F.D

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7638R.D
Report Date: 25-Jun-2013 10:21

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\130620R.B\E5J7638R.D
Lab Smp Id: LCSD-72288 Client Smp ID: LCSD-72288
Inj Date : 20-JUN-2013 15:13
Operator : GMA SRC: LIMS Inst ID: E5.i
Smp Info : LCSD-72288,LCSD-72288,72288,8081G.SUB,,
Misc Info :
Comment   :
Method   : \\avogadro\organics\E5.I\130620R.B\E58081r.m
Meth Date : 21-Jun-2013 13:08 E5.i Quant Type: ESTD
Cal Date : 19-JUN-2013 18:15 Cal File: E5J7618R.D
Als bottle: 22 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8081G.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

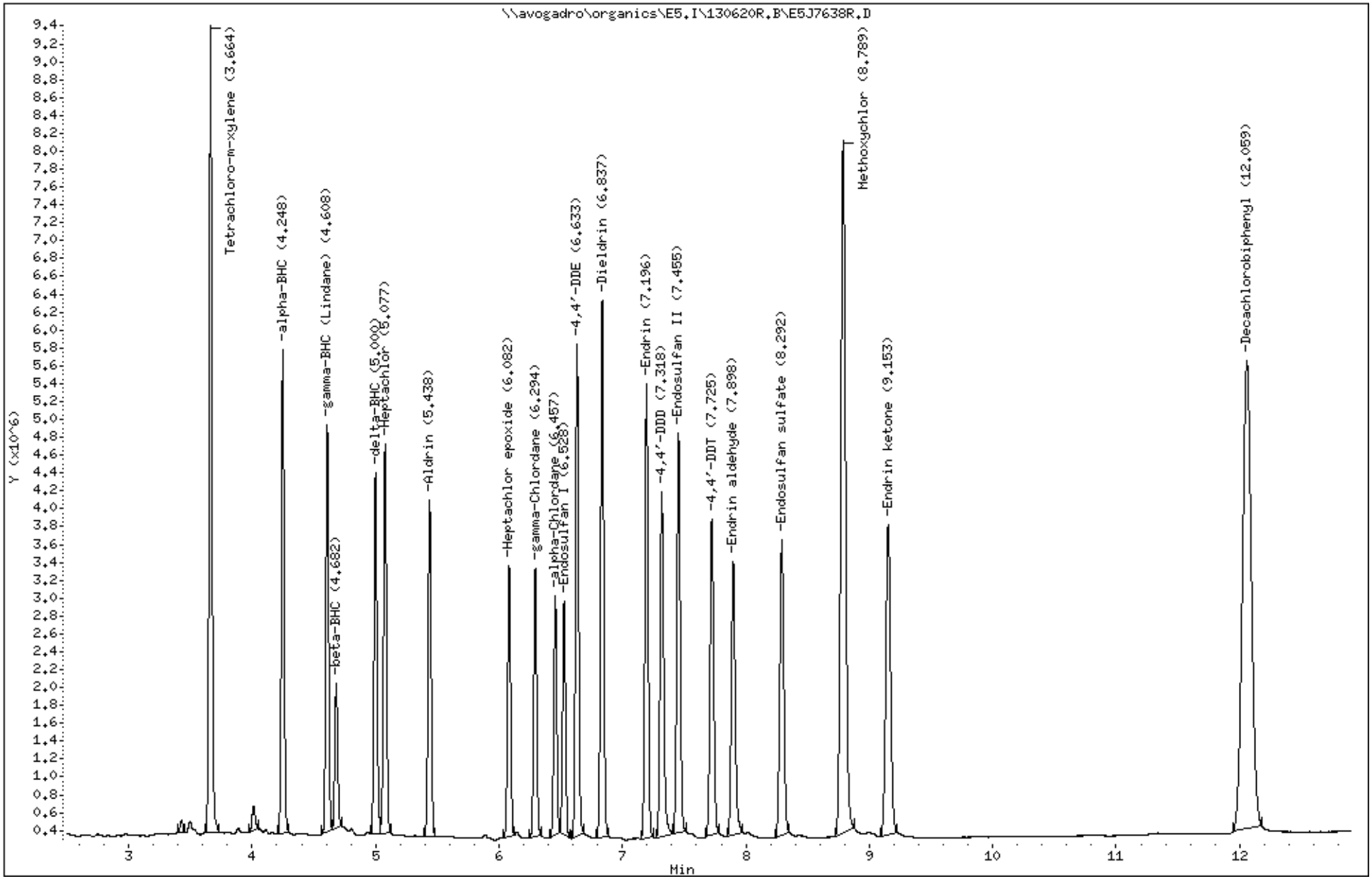
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.664	3.661	0.003	9026455	0.05985	20		
$ 2 Decachlorobiphenyl						CAS #: 2051-24-3	
12.059	12.065	-0.006	26369168	0.11096	37		
6 alpha-BHC						CAS #: 319-84-6	
4.248	4.246	0.002	8185279	0.01837	6.1		
7 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.608	4.606	0.002	7085090	0.01825	6.1		
8 Heptachlor						CAS #: 76-44-8	
5.077	5.075	0.002	7373616	0.01858	6.2		
9 Aldrin						CAS #: 309-00-2	
5.438	5.435	0.003	6448307	0.01820	6.1		
10 beta-BHC						CAS #: 319-85-7	
4.681	4.679	0.002	2618682	0.01587	5.3		

Data File: \\avogadro\organics\E5.I\130620R.B\E5J7638R.D
Report Date: 25-Jun-2013 10:21

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
11 delta-BHC					CAS #: 319-86-8		
4.999	4.997	0.002	6599849	0.01910	6.4		
14 Heptachlor epoxide					CAS #: 1024-57-3		
6.082	6.080	0.002	5203021	0.01851	6.2		
15 Endosulfan I					CAS #: 959-98-8		
6.528	6.525	0.003	2614861	0.01835	6.1		
16 gamma-Chlordane					CAS #: 5103-74-2		
6.294	6.290	0.004	5106164	0.01882	6.3		
17 alpha-Chlordane					CAS #: 5103-71-9		
6.456	6.453	0.003	4484441	0.01818	6.0		
18 4,4'-DDE					CAS #: 72-55-9		
6.633	6.630	0.003	9401122	0.03734	12		
19 Dieldrin					CAS #: 60-57-1		
6.836	6.834	0.002	10247583	0.03795	13		
20 Endrin					CAS #: 72-20-8		
7.195	7.193	0.002	5079441	0.04217	14		
21 4,4'-DDD					CAS #: 72-54-8		
7.318	7.317	0.001	7904647	0.03895	13		
22 Endosulfan II					CAS #: 33213-65-9		
7.454	7.452	0.002	8567988	0.03641	12		
23 4,4'-DDT					CAS #: 50-29-3		
7.724	7.724	0.000	7332994	0.03940	13		
24 Endrin aldehyde					CAS #: 7421-93-4		
7.898	7.896	0.002	3055931	0.03838	13		
25 Endosulfan sulfate					CAS #: 1031-07-8		
8.291	8.290	0.001	7494338	0.03782	13		
26 Methoxychlor					CAS #: 72-43-5		
8.789	8.789	0.000	20461723	0.19803	66		
27 Endrin ketone					CAS #: 53494-70-5		
9.153	9.153	0.000	3466236	0.03775	12		

Data File: \\avogadro\organics\E5.i\130620R.B\E5J7638R.D
Date : 20-JUN-2013 15:13
Client ID: LCSD-72288
Instrument: E5.i
Sample Info: LCSD-72288,LCSD-72288,72288,8081G.SUB,,
Volume Injected (uL): 1.0
Operator: GMA SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.53



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

PREP BATCH REPORT

Prep Start Date: **06/18/2013 08:37**
Prep End Date: **06/18/2013 17:23** Prep Code: **PEST_S_PR** Prep Type: **SONC/SW3550B** Prep Factor Units: **mL / g**
Prep Batch ID: **72288** Technician: **Jodie B Warner**

QC Matrix: NA2SO4 Solvent (1): MECL2 Solvent (3): HEXANE Solvent (5): N/A Clean Up (1): N/A Clean Up (3): N/A
QC Matrix Lot: 121756 Solvent (1) Lot: DI 364 Solvent (3) Lot: DH 335 Solvent (5) Lot: N/A Clean Up (1) Lot: N/A Clean Up (1) Lot: N/A

Filter?: FILTER Solvent (2): ACE Solvent (4): N/A Solvent (6): N/A Clean Up (2): N/A Clean Up (4): N/A
Filter Lot: FC003203 Solvent (2) Lot: 125597 Solvent (4) Lot: N/A Solvent (6) Lot: N/A Clean Up (2) Lot: N/A Clean Up (4) Lot: N/A

Start Time: N/A Cycles/Hour 0 Sonicator Tuned?Yes Bath Temp1 (C): N/A Therm ID1: N/A
End Time: N/A

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	CNCNTR Unit
MB-72288	BatchQC		30	10	OPW130514A	1			JBW	TM			06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (MB-72288): /CU_130618C (LOT: MKBH2986V) /jdorsey																			
LCS-72288	BatchQC		30	10	OPW130514A	1	OPW130522A	1	JBW	TM			06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (LCS-72288): /CU_130618C (LOT: MKBH2986V) /jdorsey																			
LCSD-72288	BatchQC		30	10	OPW130514A	1	OPW130522A	1	JBW	TM			06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (LCSD-72288): /CU_130618C (LOT: MKBH2986V) /jdorsey																			
M0967-01A	RS-BF-A79-061313	S	30	10	OPW130514A	1			JBW	TM	07/05/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0967-01A): /CU_130618C (LOT: MKBH2986V) /jdorsey																			
M0967-02A	RS-BF-A81-061313	S	30.3	10	OPW130514A	1			JBW	TM	07/05/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0967-02A): /CU_130618C (LOT: MKBH2986V) /jdorsey																			
M0975-04A	COMP-A-061313	S	30.3	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-04A): /CU_130618C (LOT: MKBH2986V) /jdorsey																			
M0975-07A	COMP-B-061313	S	30.1	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-07A): /CU_130618C (LOT: MKBH2986V) /jdorsey																			
M0975-11A	COMP-C-061313	S	30.4	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-11A): /CU_130618C (LOT: MKBH2986V) /jdorsey																			
M0975-14A	COMP-D-061313	S	30.1	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-14A): /CU_130618C (LOT: MKBH2986V) /jdorsey																			
M0975-18A	COMP-E-061313	S	30	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-18A): /CU_130618C (LOT: MKBH2986V) /jdorsey																			

James Kyle Dorsey 06/18/2013 Jodie B Warner 06/18/2013
Analyst Reviewed Date Manager Reviewed Date

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

Logbook ID: 50.0149-05/13

JKD
06/18/13

Percent Moisture and Percent Solids Report

Lab Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
M0975-01A	A-1-3-061313	06/18/2013	20.881	79.119	Yes
M0975-02A	A-2-2-061313	06/18/2013	25.000	75.000	Yes
M0975-03A	A-3-1-061313	06/18/2013	18.921	81.079	Yes
M0975-04A	COMP-A-061313	06/18/2013	21.460	78.540	Yes
M0975-05A	B-1-4-061313	06/18/2013	18.650	81.350	Yes
M0975-06A	B-2-1-061313	06/18/2013	18.229	81.771	Yes
M0975-07A	COMP-B-061313	06/18/2013	20.671	79.329	Yes
M0975-08A	C-1-2-061313	06/18/2013	23.940	76.060	Yes
M0975-09A	C-2-3-061313	06/18/2013	25.535	74.465	Yes
M0975-10A	C-3-2-061313	06/18/2013	23.295	76.705	Yes
M0975-11A	COMP-C-061313	06/18/2013	17.278	82.722	Yes
M0975-12A	D-1-1-061313	06/18/2013	17.479	82.521	Yes
M0975-13A	D-3-4-061313	06/18/2013	19.204	80.796	Yes
M0975-14A	COMP-D-061313	06/18/2013	20.900	79.100	Yes
M0975-15A	E-1-3-061313	06/18/2013	15.889	84.111	Yes
M0975-16A	E-2-4-061313	06/18/2013	24.763	75.237	Yes
M0975-17A	E-3-2-061313	06/18/2013	23.279	76.721	Yes
M0975-18A	COMP-E-061313	06/18/2013	16.103	83.897	Yes

Spectrum Analytical, Inc. RI Division E5 Injection Log
GC Semivolatiles Laboratory

METHOD: 8081
ICAL DATE: 6/19/13
ANALYST: Qwo

START BATCH: 130619BF.B
END BATCH: 130619BF.B

Start: 19-JUN-13 13:50
End: 19-JUN-13 19:07

Internal Standard:
Comments:

8081 ICAC

Inlet Maintenance By:
Liner :
Column :
Inlet Seal:
Septum :

Reviewed By: 6/20/13

Manual Integration: Qwo 6/20/13

MI Review: 6/20/13

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	SURROGATES FRONT DCB	SURROGATES REAR TCMX	SURROGATES REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E5J7603F/R	13:50	PIBLKJA	PIBLKJA		AQ	31	33	31	29*	1					
E5J7604F/R	14:08	RESCJ5	RESCJ5		SL					1					
E5J7605F/R	14:25	PEMJ5	PEMJ5		AQ					1					
E5J7606F/R	14:43	TOXAPH6J5	TOXAPH6J5		AQ					1					
E5J7607F/R	15:00	TOXAPH1J5	TOXAPH1J5		AQ					1					MI_F2
E5J7608F/R	15:18	TOXAPH2J5	TOXAPH2J5		AQ					1					
E5J7609F/R	15:36	TOXAPH3J5	TOXAPH3J5		AQ					1					
E5J7610F/R	15:53	TOXAPH4J5	TOXAPH4J5		AQ					1					MI_F28
E5J7611F/R	16:11	TOXAPH5J5	TOXAPH5J5		AQ					1					MI_F28_2
E5J7612F/R	16:28	TC3J5	TC3J5		AQ					1					
E5J7613F/R	16:46	INDC6J5	INDC6J5		AQ					1					
E5J7614F/R	17:04	INDC1J5	INDC1J5		AQ					1					
E5J7615F/R	17:22	INDC2J5	INDC2J5		AQ					1					
E5J7616F/R	17:39	INDC3J5	INDC3J5		AQ					1					
E5J7617F/R	17:57	INDC4J5	INDC4J5		AQ					1					
E5J7618F/R	18:15	INDC5J5	INDC5J5		AQ					1					
E5J7619F/R	18:32	INDCICVJ5	INDCICVJ5		AQ					1					
E5J7620F/R	18:50	PIBLKJA	PIBLKJA	13061	AQ	34	32	32	29*	1					
E5J7621F/R	19:07	PEMJA	PEMJA	13061	AQ					1					

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
* - Surrogate is outside of control limits
D - Surrogate is diluted

Qwo 6/20/13

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E5

Spectrum Analytical, Inc. RI Division E5 Injection Log
GC Semivolatiles Laboratory

METHOD: 8081 ANALYST: Camp
ICAL DATE: 6/19/13

START BATCH: 130620F.B Start: 20-JUN-13 12:15
END BATCH: 130620F.B End: 21-JUN-13 04:01

Inlet Maintenance By:
Liner :
Column :
Inlet Seal: J
Septum :

Internal Standard:
Comments: STDs Page 77

Reviewed By: 6/21/13 Manual Integration: N/A MI Review: NA

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	FRONT DCB	REAR TCMX	REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E5J7628F/R	12:15	PIBLKJA	PIBLKJA		AQ	30*	31	35	29*	1			✓		
E5J7629F/R	12:32	PEMJA	PEMJA		AQ					1			✓		
E5J7630F/R	12:50	INDC3JA	INDC3JA		AQ					1			✓		
E5J7631F/R	13:08	TOXAPH3JA	TOXAPH3JA		AQ					1			✓		
E5J7632F/R	13:26	TC3JA	TC3JA		AQ					1			✓		
E5J7633F/R	13:43	MB-72221	MB-7221	72221	AQ	92	101	104	94	1			✓		
E5J7634F/R	14:01	LCS-72221	LCS-7221	72221	AQ	94	101	104	96	1			✓		
E5J7635F/R	14:18	M0939-01B	ET01 GRAB	72221	AQ	76	87	90	83	1			✓		
E5J7636F/R	14:36	MB-72288	MB-72288	72288	SL	89	96	100	90	1			✓		
E5J7637F/R	14:56	LCS-72288	LCS-72288	72288	SL	91	97	99	92	1			✓		
E5J7638F/R	15:13	LCSD-72288	LCSD-72288	72288	SL	90	98	100	92	1			✓		
E5J7639F/R	15:31	M0967-01A	RS-BF-A79-06131	72288	SL	66	76	75	74	1			✓		
E5J7640F/R	15:48	M0975-02A	RS-BF-A81-06131	72288	SL	62	71	70	68	1			✓		
E5J7641F/R	16:06	M0975-04A	COMP-A-061313	72288	SL	65	73	74	72	1			✓		
E5J7642F/R	16:23	M0975-07A	COMP-B-061313	72288	SL	60	68	68	66	1			✓		
E5J7643F/R	16:41	M0975-11A	COMP-C-061313	72288	SL	71	78	81	76	1			✓		
E5J7644F/R	16:58	M0975-14A	COMP-D-061313	72288	SL	71	78	82	78	1			✓		
E5J7645F/R	17:15	M0975-18A	COMP-E-061313	72288	SL	70	74	78	75	1			✓		
E5J7646F/R	17:33	MB-72321	MB-72321	72338	AQ	84	92	93	88	1			✓		
E5J7647F/R	17:50	LCS-72338	LCS-72338	72338	AQ	85	96	96	93	1			✓		
E5J7648F/R	18:08	LCSD-72338	LCSD-72338	72338	AQ	84	95	95	91	1			✓		
E5J7649F/R	18:25	M0992-01A	WC-PAH-3A-1	72338	AQ	61	51	65	51	1			✓		
E5J7650F/R	18:43	M0992-01AMS	WC-PAH-3A-1MS	72338	AQ	56	47	65	47	1			✓		
E5J7651F/R	19:00	PIBLKJB	PIBLKJB		AQ	32	34	34	32	1			✓		
E5J7652F/R	19:18	PEMJB	PEMJB		AQ					1			✓		
E5J7653F/R	19:35	INDC3JB	INDC3JB		AQ					1			✓		
E5J7654F/R	19:53	TOXAPH3JB	TOXAPH3JB		AQ					1			✓		

- One or more target compounds are above the calibration range
- One or more spike compounds are outside of control limits
- Surrogate is outside of control limits
- Surrogate is diluted

6/21/13

M9975

Spectrum Analytical, Inc. RI Division E5 Injection Log
GC Semivolatiles Laboratory

METHOD: 8081
ICAL DATE: 6/9/13
ANALYST:

START BATCH: 130620F.B
END BATCH: 130620F.B

Start: 20-JUN-13 12:15
End: 21-JUN-13 04:01

Internal Standard:
Comments: STDs Pceeje 47

Inlet Maintenance By:
Liner :
Column :
Inlet Seal: 6
Septum :

Reviewed By: 6/21/13
Manual Integration: w/in
MI Review: MA

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	SURROGATES FRONT DCB	SURROGATES REAR TCMX	SURROGATES REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E5J7655F/R	20:10	TC3JB	TC3JB		AQ					1			✓		
E5J7656F/R	20:28	MB-72127	MB-72127	72127	AQ	82	88	96	92	1			✓		
E5J7657F/R	20:45	LCS-72127	LCS-72127	72127	AQ	85	90	101	94	1			✓		
E5J7658F/R	21:02	LCSD-72127	LCSD-72127	72127	AQ	81	86	94	91	1			✓		
E5J7659F/R	21:20	M0891-02B	OU7-060413FB	72127	AQ	79	56	91	60	1			✓		
E5J7660F/R	21:37	M0891-04B	OU7-MW142D	72127	AQ	74	71	83	76	1			✓		
E5J7661F/R	21:55	M0891-06B	OU7-MW142I	72127	AQ	74	68	88	72	1			✓		
E5J7662F/R	22:12	M0891-08B	OU7-MW143D	72127	AQ	75	56	88	59	1			✓		
E5J7663F/R	22:29	M0891-10B	OU7-MW143I	72127	AQ	76	55	90	58	1			✓		
E5J7664F/R	22:47	M0891-12B	OU7-MW148S	72127	AQ	70	67	84	72	1			✓		
E5J7665F/R	23:04	M0891-14B	OU7-060413FD	72127	AQ	72	72	84	79	1			✓		
E5J7666F/R	23:22	PIBLKJC	PIBLKJC		AQ	30	32	35	34	1			✓		
E5J7667F/R	23:39	PEMJC	PEMJC		AQ					1			✓		
E5J7668F/R	23:57	INDC3JC	INDC3JC		AQ					1			✓		
E5J7669F/R	00:14	TOXAPH3JC	TOXAPH3JC		AQ					1			✓		
E5J7670F/R	00:32	TC3JC	TC3JC		AQ					1			✓		
E5J7671F/R	00:49	MB-72316	MB-72316	72316	SL	79	89	95	95	1			✓		
E5J7672F/R	01:07	LCS-72316	LCS-72316	72316	SL	78	88	94	94	1			✓		
E5J7673F/R	01:24	LCSD-72316	LCSD-72316	72316	SL	75	88	89	94	1			✓		
E5J7674F/R	01:41	M0954-01A	5-N-5A	72316	SL	59	65	81	70	1			✓		
E5J7675F/R	01:59	M0954-02A	5-N-5B	72316	SL	66	69	84	79	1			✓		
E5J7676F/R	02:16	M0954-09A	2-AREA1-E5A	72316	SL	62	84	88	74	1			✓		
E5J7677F/R	02:34	M0954-10A	2-AREA1-E5B	72316	SL	67	69	80	84	1			✓		
E5J7678F/R	02:51	PIBLKJD	PIBLKJD		AQ	31	32	34	31	1			✓		
E5J7679F/R	03:08	PEMJD	PEMJS		AQ					1			✓		
E5J7680F/R	03:26	INDC3JD	INDC3JD		AQ					1			✓		not reached
E5J7681F/R	03:43	TOXAPH3JD	TOXAPH3JD		AQ					1			✓		

E One or more target compounds are above the calibration range
R One or more spike compounds are outside of control limits
* Surrogate is outside of control limits
D Surrogate is diluted

6/21/13

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E5

M0957

Spectrum Analytical, Inc. RI Division E5 Injection Log
GC Semivolatiles Laboratory

METHOD: 8081
ICAL DATE: 4/4/13

ANALYST: DLW

START BATCH: 130620F.B
END BATCH: 130620F.B

Start: 20-JUN-13 12:15
End: 21-JUN-13 04:01

Internal Standard:
Comments: STDs Page 77

Inlet Maintenance By:
Liner :
Column :
Inlet Seal: 5
Septum :

Reviewed By: 6/21/13 Manual Integration: WM MI Review: MM

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	SURROGATES FRONT DCB	SURROGATES REAR TCMX	SURROGATES REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E5J7682F/R	04:01	TC3JD	TC3JD		AQ					1			✓		

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
* - Surrogate is outside of control limits
D - Surrogate is diluted

DLW 6/21/13

Standard ID's

Comments

Reviewed_____

* PCB Organics *

REPORT NARRATIVE

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

Client : GZA GeoEnvironmental of NY Buffalo

Project: Former Signore Facility

Laboratory Workorder / SDG #: M0975

SW846 8082A, PCB by GC-ECD

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 8082A

IV. PREPARATION

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

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard

Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest 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.

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

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

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. 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

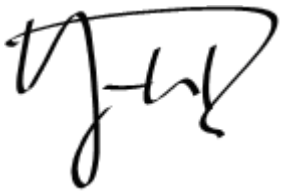
The following samples were manually integrated:

AR16601D2 Aroclor-1260 on front column , Decachlorobiphenyl on front column due to M6

AR16603DK Aroclor-1260 on rear column due to M6

AR16606D2 Aroclor-1016 on front column , Aroclor-1260 on front column , Decachlorobiphenyl on front column 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:_____6/27/2013_____

Data Flag/Qualifiers:

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 an 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 aldol condensation byproducts.

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.

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

2R - FORM II ARO-2

SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	MB-72289	93	92	89	90			0
02	LCS-72289	100	97	89	90			0
03	LCSD-72289	97	95	91	93			0
04	COMP-A-061313	78	77	81	75			0
05	COMP-B-061313	74	73	73	75			0
06	COMP-C-061313	86	85	90	83			0
07	COMP-D-061313	85	85	89	82			0
08	COMP-E-061313	84	82	82	79			0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(34-147)
DCB = Decachlorobiphenyl	(60-125)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

som13.06.03.A

Page 1 of 1 SW846

3P - FORM III ARO-4

SOIL AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-72289

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72289 LCS Lot No.: A072217

Date Extracted: 06/18/2013 Date Analyzed (1): 06/19/2013

Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC	#	QC LIMITS
Aroclor-1016	133.3330	121.5978	91		40-140
Aroclor-1260	133.3330	122.4739	92		60-130

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 06/19/2013

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC	#	QC LIMITS
Aroclor-1016	133.3330	113.8541	85		40-140
Aroclor-1260	133.3330	84.1892	63		60-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

som13.06.03.A

3P - FORM III ARO-4
SOIL AROCLOR LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-72289

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCSD-72289 LCS Lot No.: A072217

Date Extracted: 06/18/2013 Date Analyzed (1): 06/19/2013

Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC	#	QC LIMITS	%RPD	#	RPD LIMIT
Aroclor-1016	133.3330	120.6033	90		40-140	1.0		30
Aroclor-1260	133.3330	125.2841	94		60-130	2.0		30

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 06/19/2013

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC	#	QC LIMITS	%RPD	#	RPD LIMIT
Aroclor-1016	133.3330	114.7297	86		40-140	1.0		30
Aroclor-1260	133.3330	86.2962	65		60-130	3.0		30

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

RPD: 0 out of 4 outside limits.

COMMENTS:

som13.06.03.A

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-72289

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab File ID: E2M1009F.D / E2M1009R.D Lab Sample ID: MB-72289

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/18/2013

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 06/19/2013 Date Analyzed (2): 06/19/2013

Time Analyzed (1): 10:58 Time Analyzed (2): 10:58

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-72289	LCS-72289	06/19/2013	06/19/2013
02	LCSD-72289	LCSD-72289	06/19/2013	06/19/2013
03	COMP-A-061313	M0975-04A	06/19/2013	06/19/2013
04	COMP-B-061313	M0975-07A	06/19/2013	06/19/2013
05	COMP-C-061313	M0975-11A	06/19/2013	06/19/2013
06	COMP-D-061313	M0975-14A	06/19/2013	06/19/2013
07	COMP-E-061313	M0975-18A	06/19/2013	06/19/2013

COMMENTS:

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-A-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-04A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E2M1014F.D/E2M1014R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1014F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

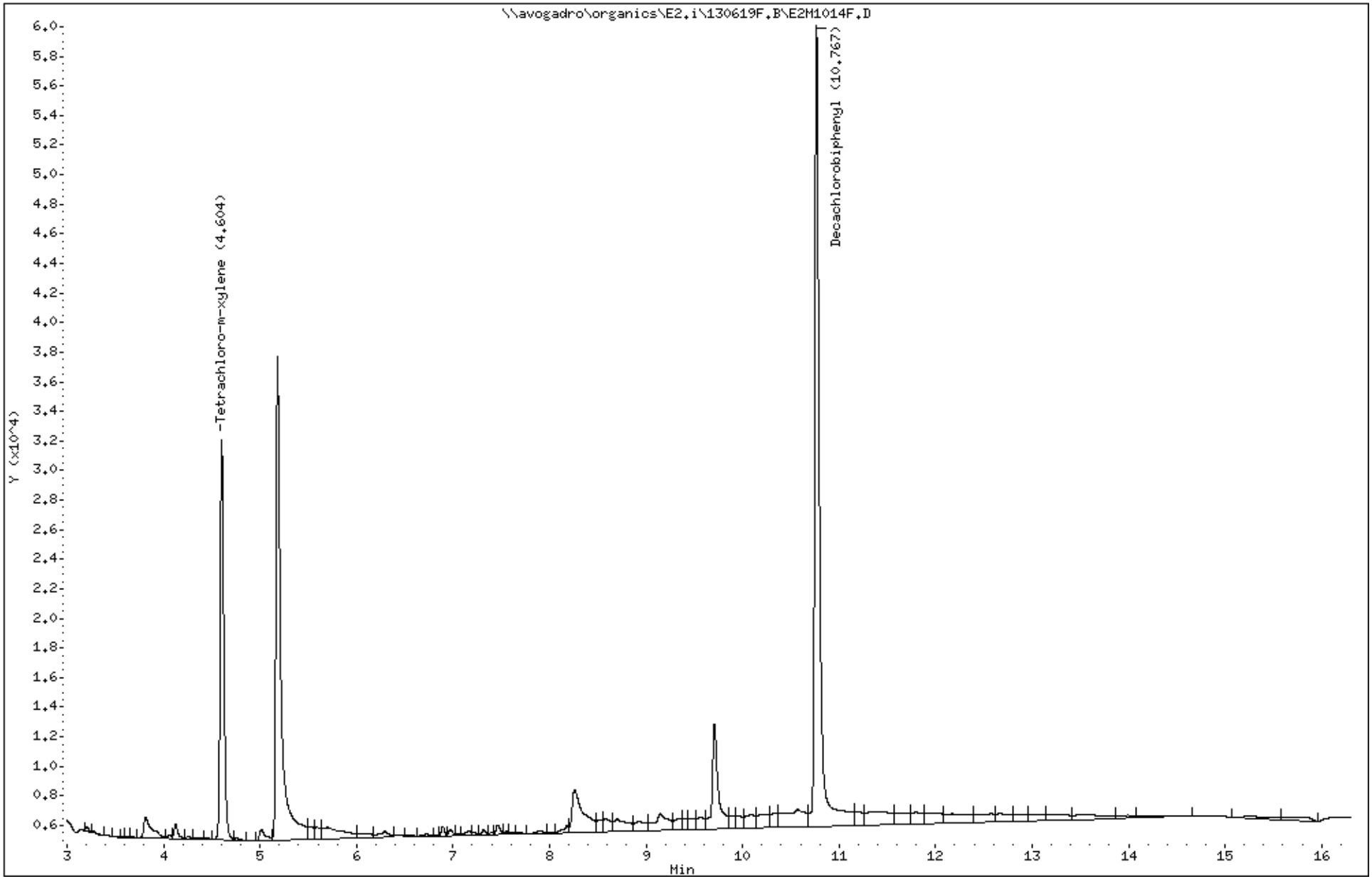
Data file : \\avogadro\organics\E2.i\130619F.B\E2M1014F.D
Lab Smp Id: M0975-04A Client Smp ID: COMP-A-061313
Inj Date : 19-JUN-2013 12:36
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-04A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.300	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.603	4.565	0.038	26986	0.04669	15		
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
10.766	10.728	0.038	1901070	0.09705	32		

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1014F.D
Date : 19-JUN-2013 12:36
Client ID: COMP-A-061313
Instrument: E2.i
Sample Info: M0975-04A,,72289,8082A,sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1014R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

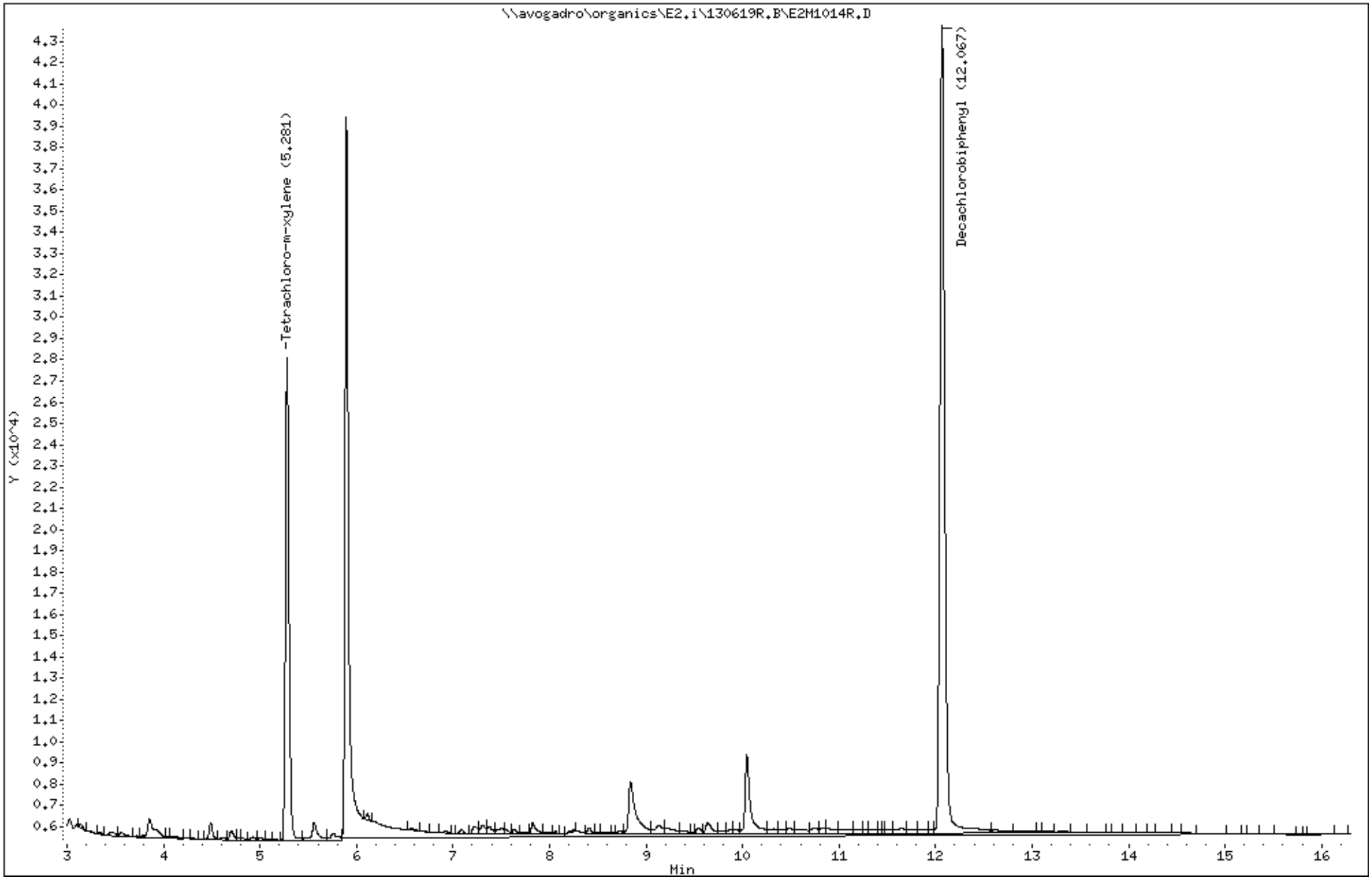
Data file : \\avogadro\organics\E2.i\130619R.B\E2M1014R.D
Lab Smp Id: M0975-04A Client Smp ID: COMP-A-061313
Inj Date : 19-JUN-2013 12:36
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-04A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.300	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.280	5.242	0.038	22657	0.04599		15	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
12.067	12.018	0.049	38045	0.08974		30	

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1014R.D
Date : 19-JUN-2013 12:36
Client ID: COMP-A-061313
Instrument: E2.i
Sample Info: M0975-04A,,72289,8082A,sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-B-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-07A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E2M1015F.D/E2M1015R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1015F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

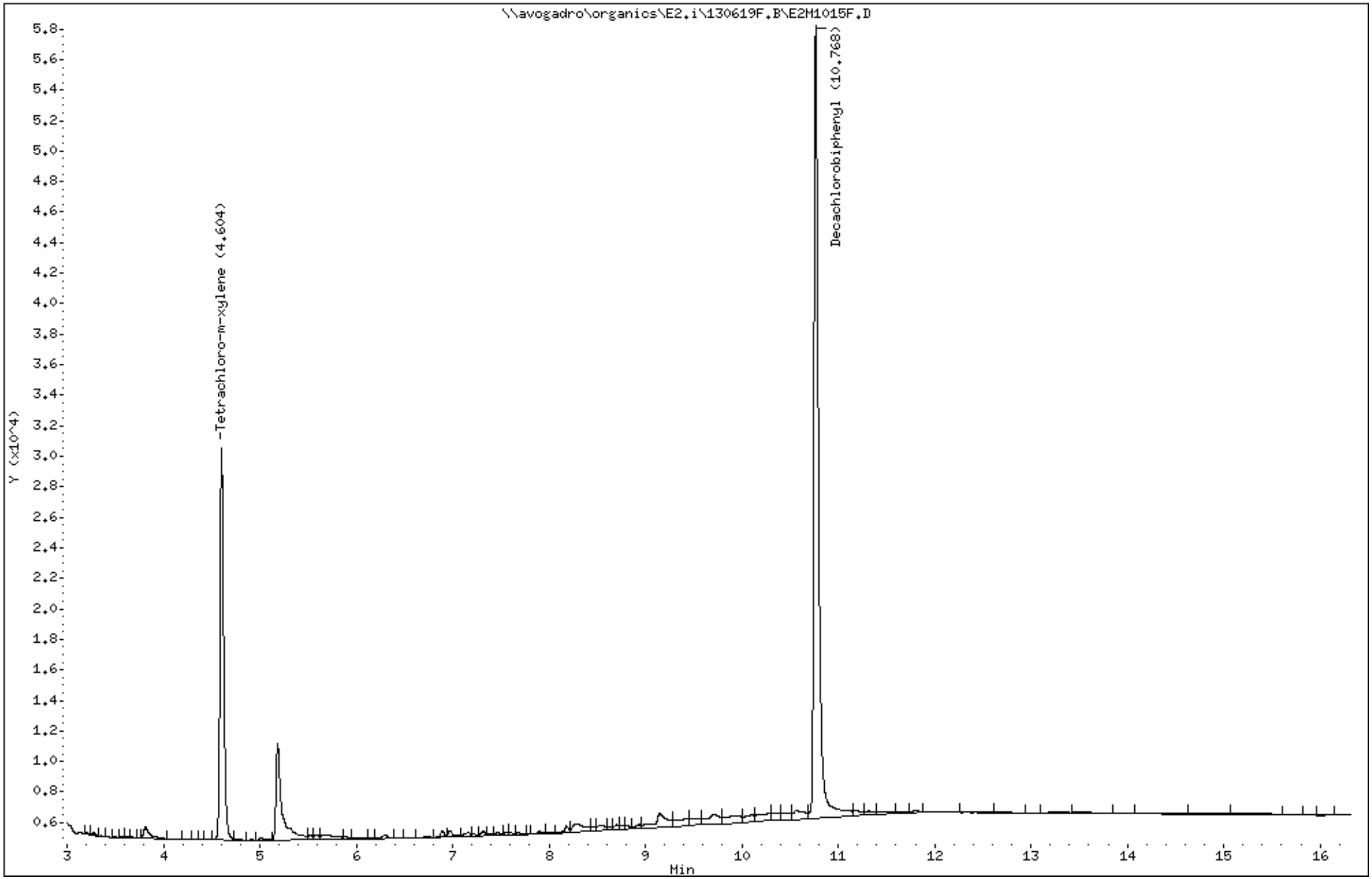
Data file : \\avogadro\organics\E2.i\130619F.B\E2M1015F.D
Lab Smp Id: M0975-07A Client Smp ID: COMP-B-061313
Inj Date : 19-JUN-2013 12:56
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-07A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.603	4.565	0.038	25626	0.04434		15	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
10.767	10.728	0.039	1723923	0.08801		29	

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1015F.D
Date : 19-JUN-2013 12:56
Client ID: COMP-B-061313 Instrument: E2.i
Sample Info: M0975-07A,,72289,8082A.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: LIMS
Column phase: CLPPest Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1015R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

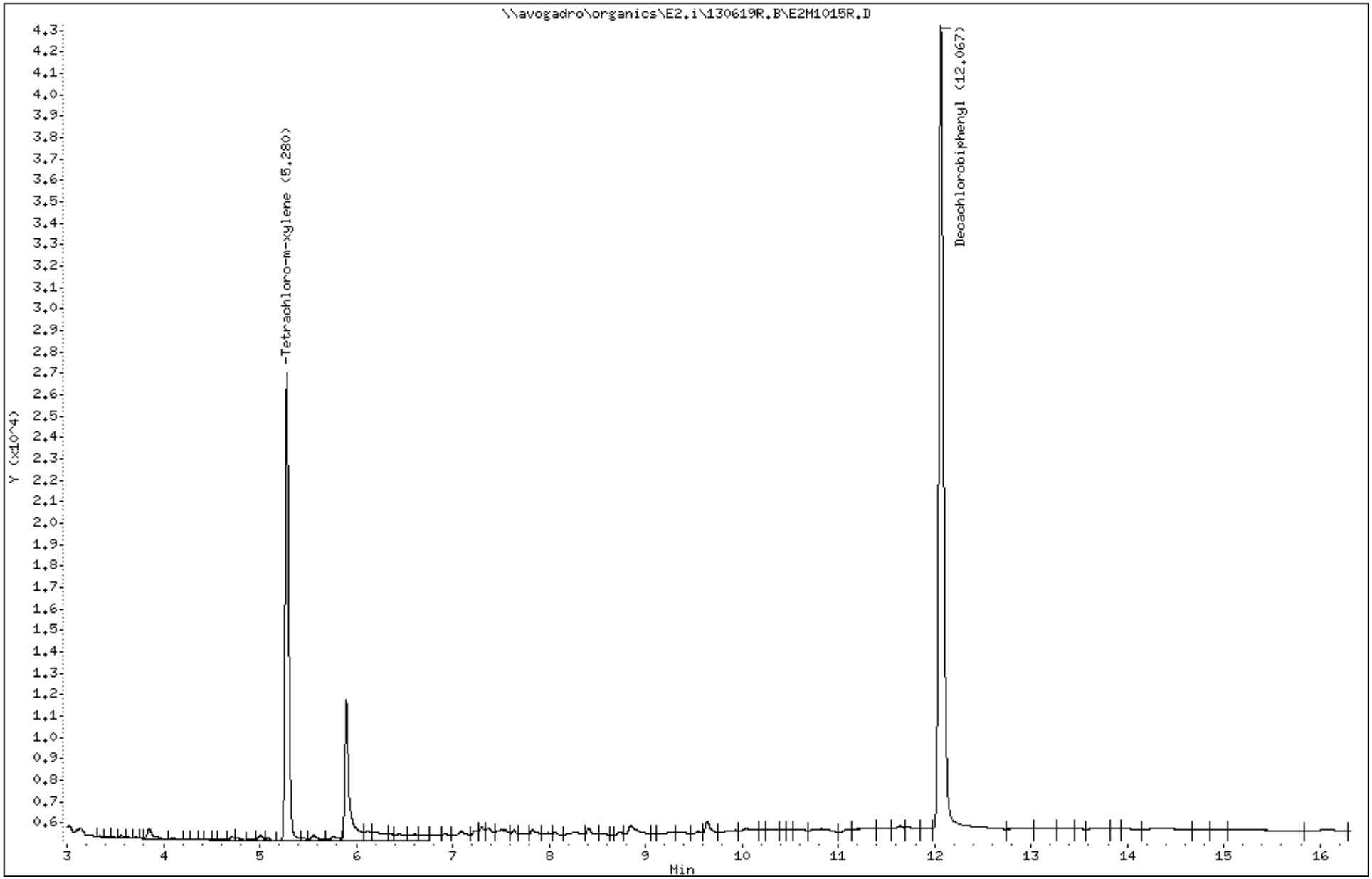
Data file : \\avogadro\organics\E2.i\130619R.B\E2M1015R.D
Lab Smp Id: M0975-07A Client Smp ID: COMP-B-061313
Inj Date : 19-JUN-2013 12:56
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-07A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.280	5.242	0.038	21695	0.04404		15	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
12.066	12.018	0.048	38082	0.08983		30	

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1015R.D
Date : 19-JUN-2013 12:56
Client ID: COMP-B-061313
Instrument: E2.i
Sample Info: M0975-07A,,72289,8082A,sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-C-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-11A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E2M1016F.D/E2M1016R.D

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1016F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

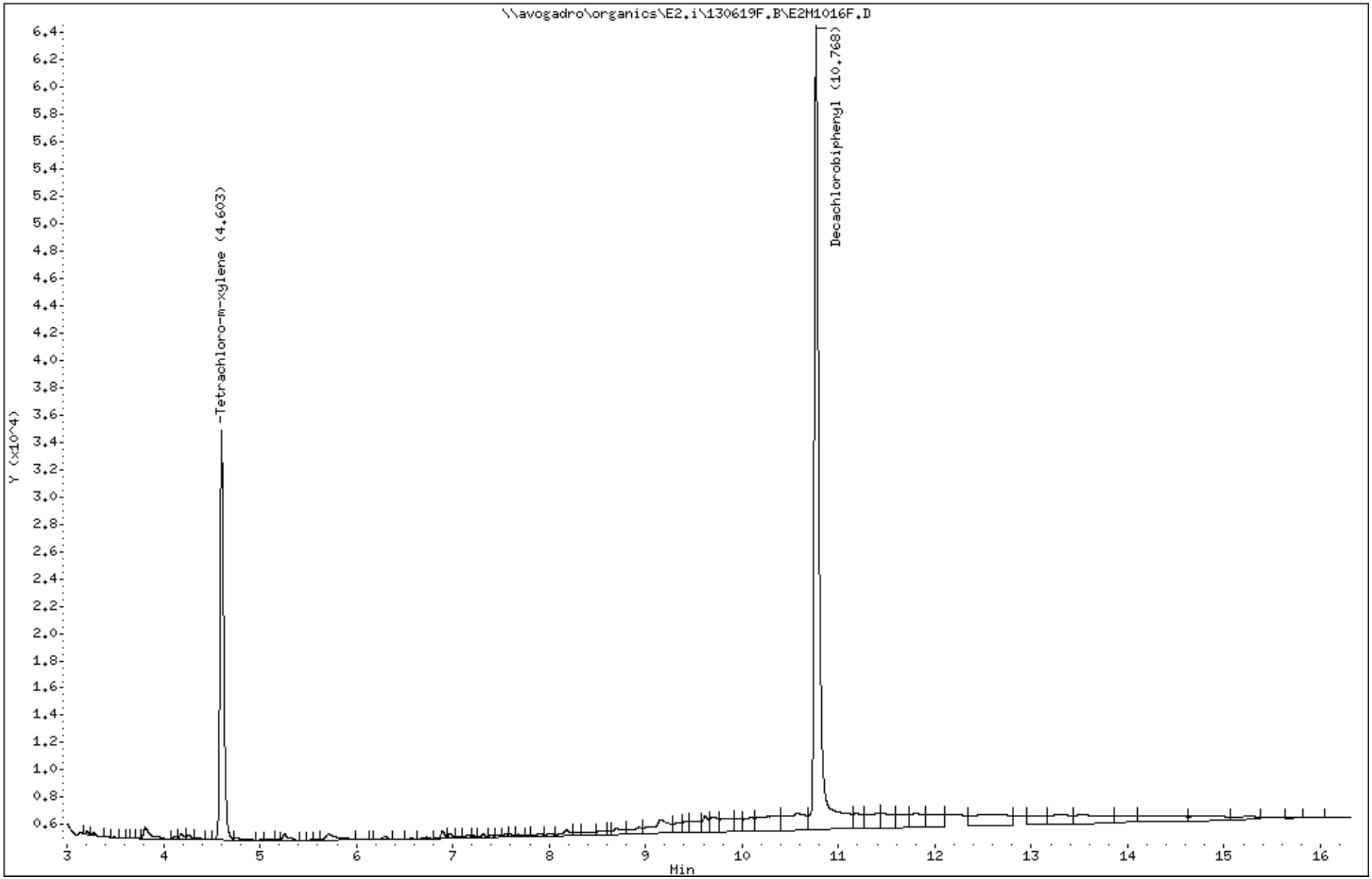
Data file : \\avogadro\organics\E2.i\130619F.B\E2M1016F.D
Lab Smp Id: M0975-11A Client Smp ID: COMP-C-061313
Inj Date : 19-JUN-2013 13:16
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-11A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.603	4.565	0.038	29890	0.05171	17		
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
10.767	10.728	0.039	2112790	0.10786	35		

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1016F.D
Date : 19-JUN-2013 13:16
Client ID: COMP-C-061313
Instrument: E2.i
Sample Info: M0975-11A,,72289,8082A,sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1016R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

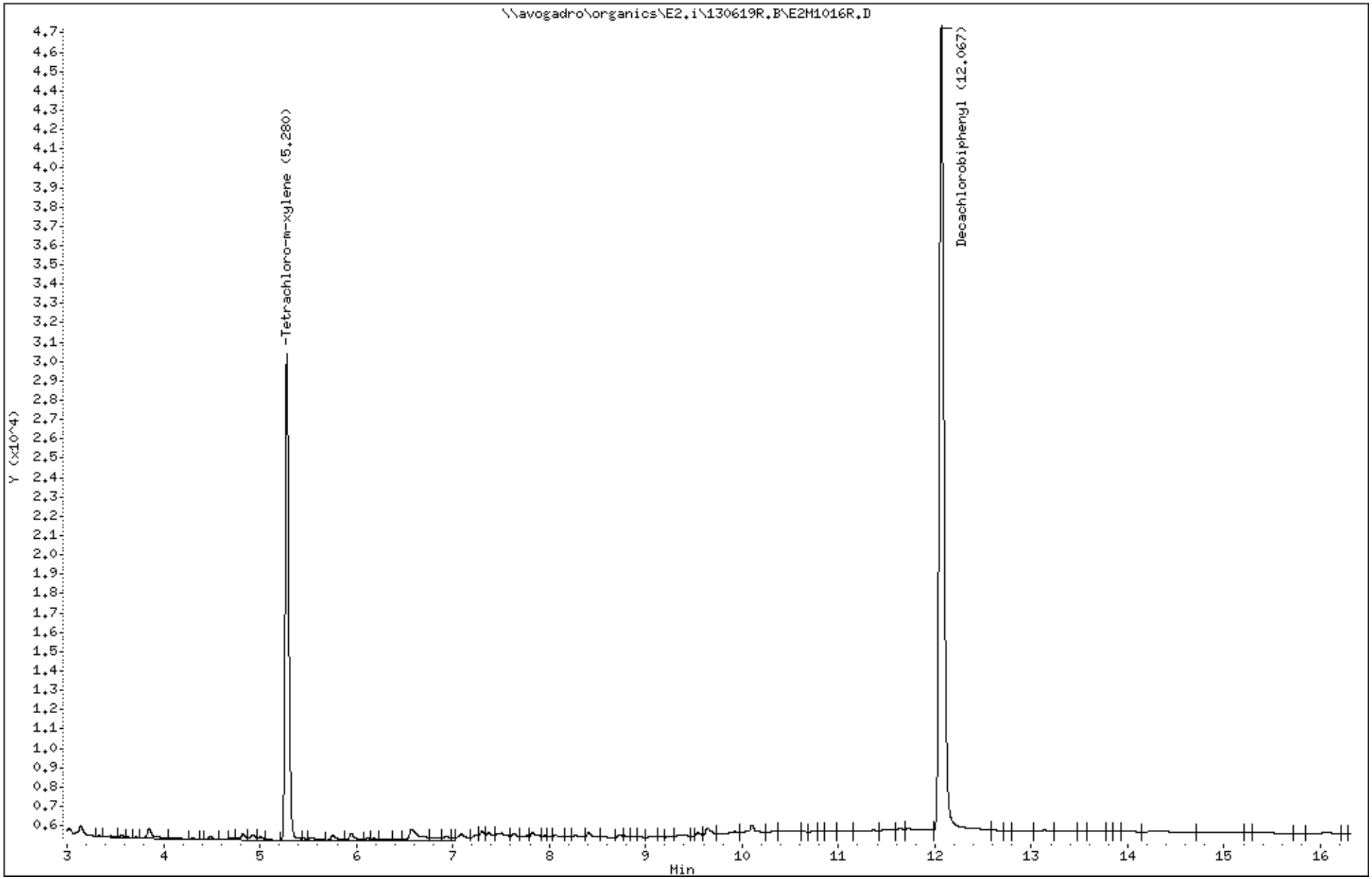
Data file : \\avogadro\organics\E2.i\130619R.B\E2M1016R.D
Lab Smp Id: M0975-11A Client Smp ID: COMP-C-061313
Inj Date : 19-JUN-2013 13:16
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-11A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.279	5.242	0.037	25030	0.05081	17		
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
12.067	12.018	0.049	42225	0.09960	33		

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1016R.D
Date : 19-JUN-2013 13:16
Client ID: COMP-C-061313
Instrument: E2.i
Sample Info: M0975-11A,,72289,8082A,sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-D-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-14A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E2M1017F.D/E2M1017R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1017F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

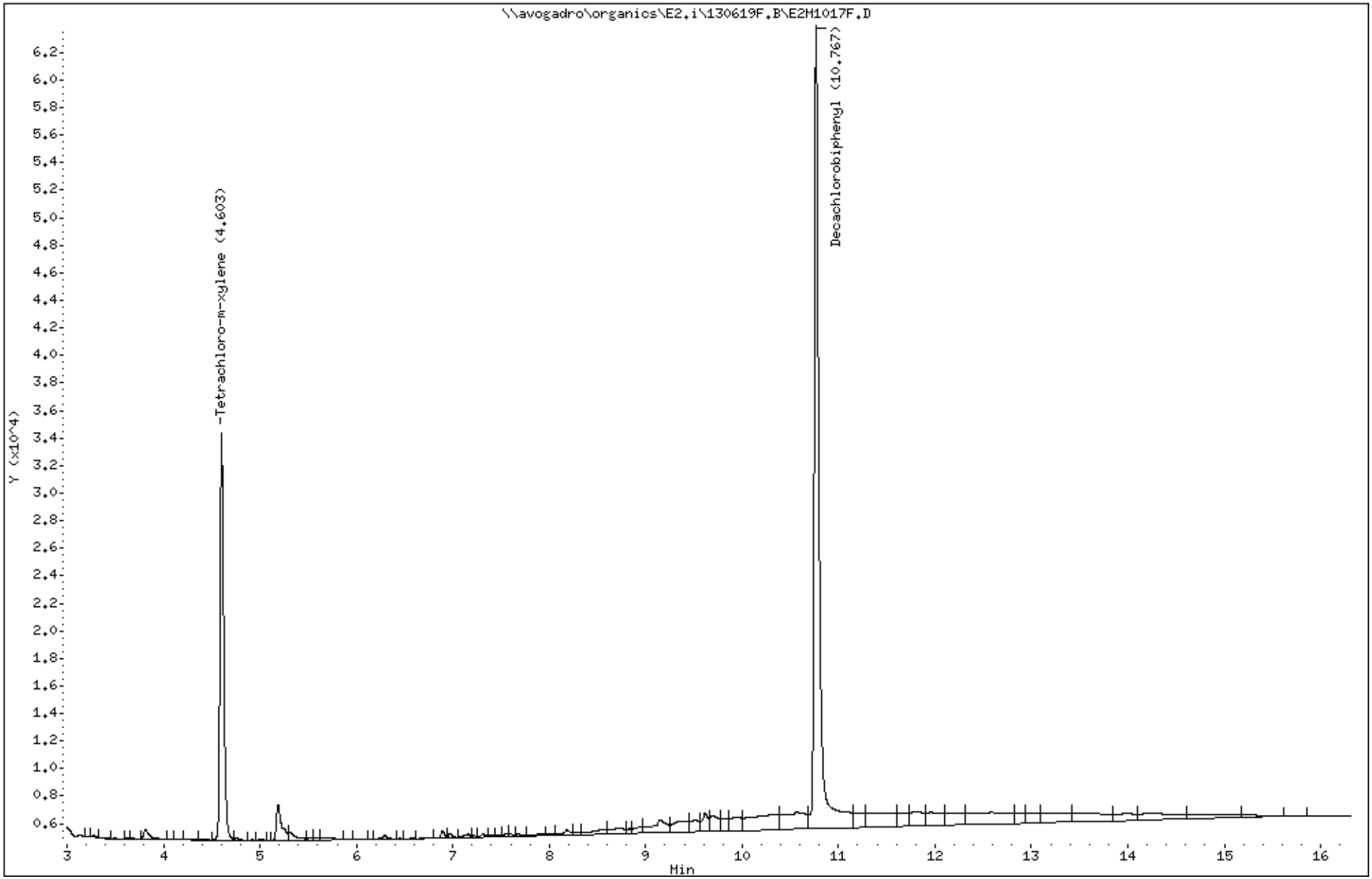
Data file : \\avogadro\organics\E2.i\130619F.B\E2M1017F.D
Lab Smp Id: M0975-14A Client Smp ID: COMP-D-061313
Inj Date : 19-JUN-2013 13:36
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-14A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.602	4.565	0.037	29492	0.05102		17	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
10.767	10.728	0.039	2097624	0.10708		36	

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1017F.D
Date : 19-JUN-2013 13:36
Client ID: COMP-D-061313 Instrument: E2.i
Sample Info: M0975-14A,,72289,8082A,sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: LIMS
Column phase: CLPPest Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1017R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

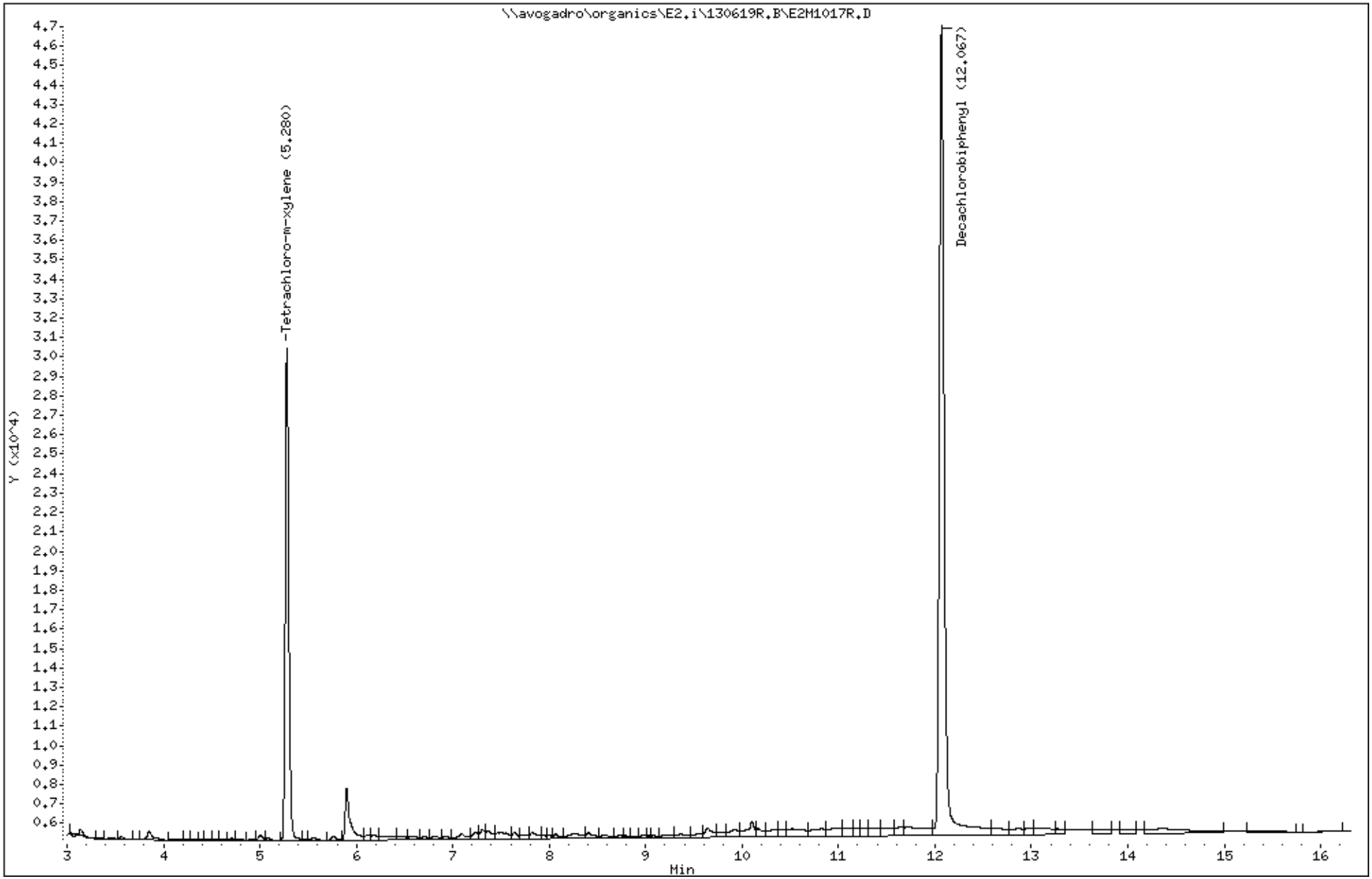
Data file : \\avogadro\organics\E2.i\130619R.B\E2M1017R.D
Lab Smp Id: M0975-14A Client Smp ID: COMP-D-061313
Inj Date : 19-JUN-2013 13:36
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-14A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.279	5.242	0.037	25146	0.05105		17	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
12.067	12.018	0.049	41614	0.09816		33	

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1017R.D
Date : 19-JUN-2013 13:36
Client ID: COMP-D-061313
Instrument: E2.i
Sample Info: M0975-14A,,72289,8082A,sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP-E-061313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0975-18A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E2M1018F.D/E2M1018R.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 06/14/2013

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1018F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

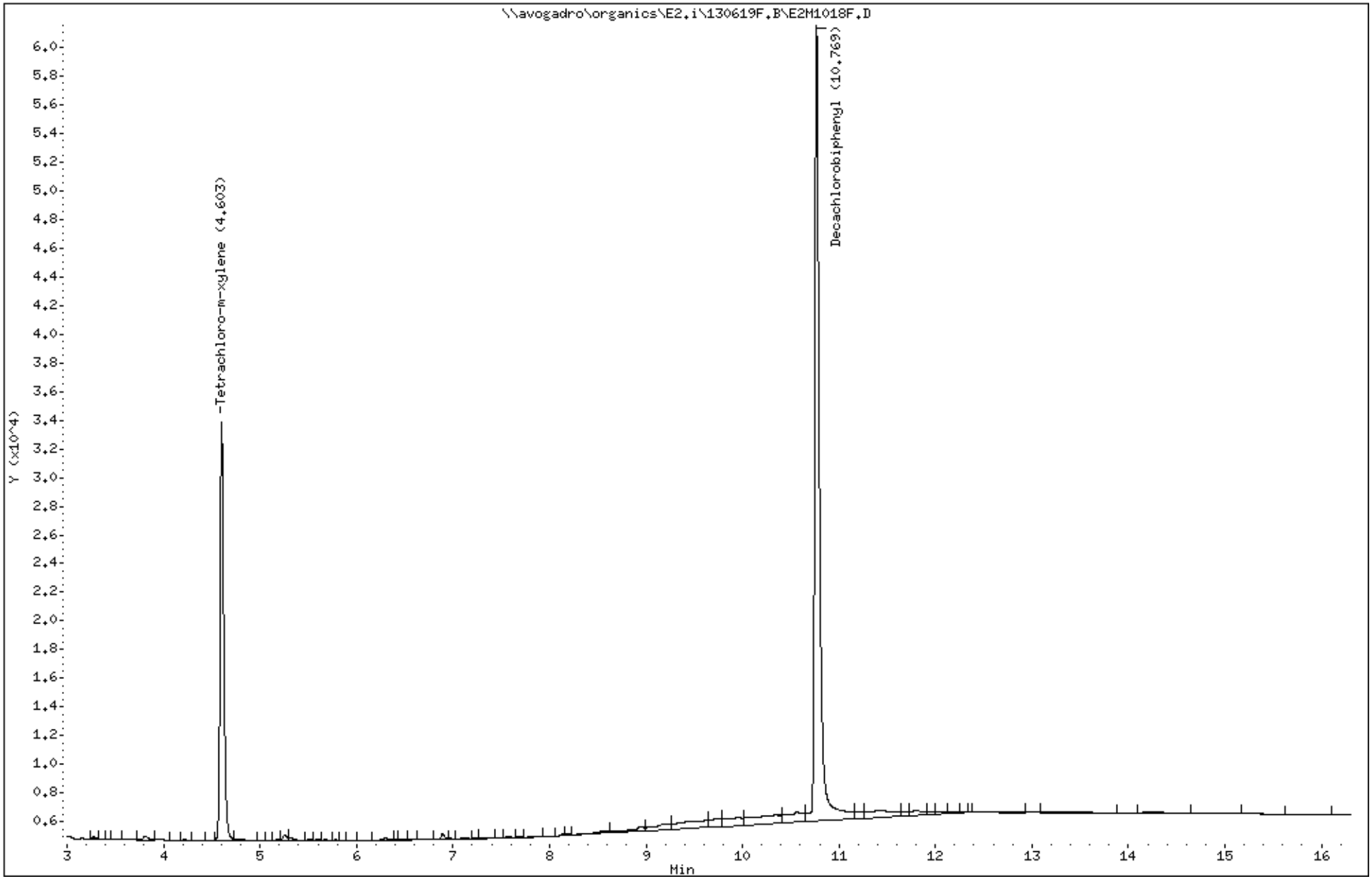
Data file : \\avogadro\organics\E2.i\130619F.B\E2M1018F.D
Lab Smp Id: M0975-18A Client Smp ID: COMP-E-061313
Inj Date : 19-JUN-2013 13:55
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-18A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.602	4.565	0.037	29054	0.05027		17	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
10.768	10.728	0.040	1925980	0.09832		33	

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1018F.D
Date : 19-JUN-2013 13:55
Client ID: COMP-E-061313
Instrument: E2.i
Sample Info: M0975-18A,,72289,8082A,sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1018R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

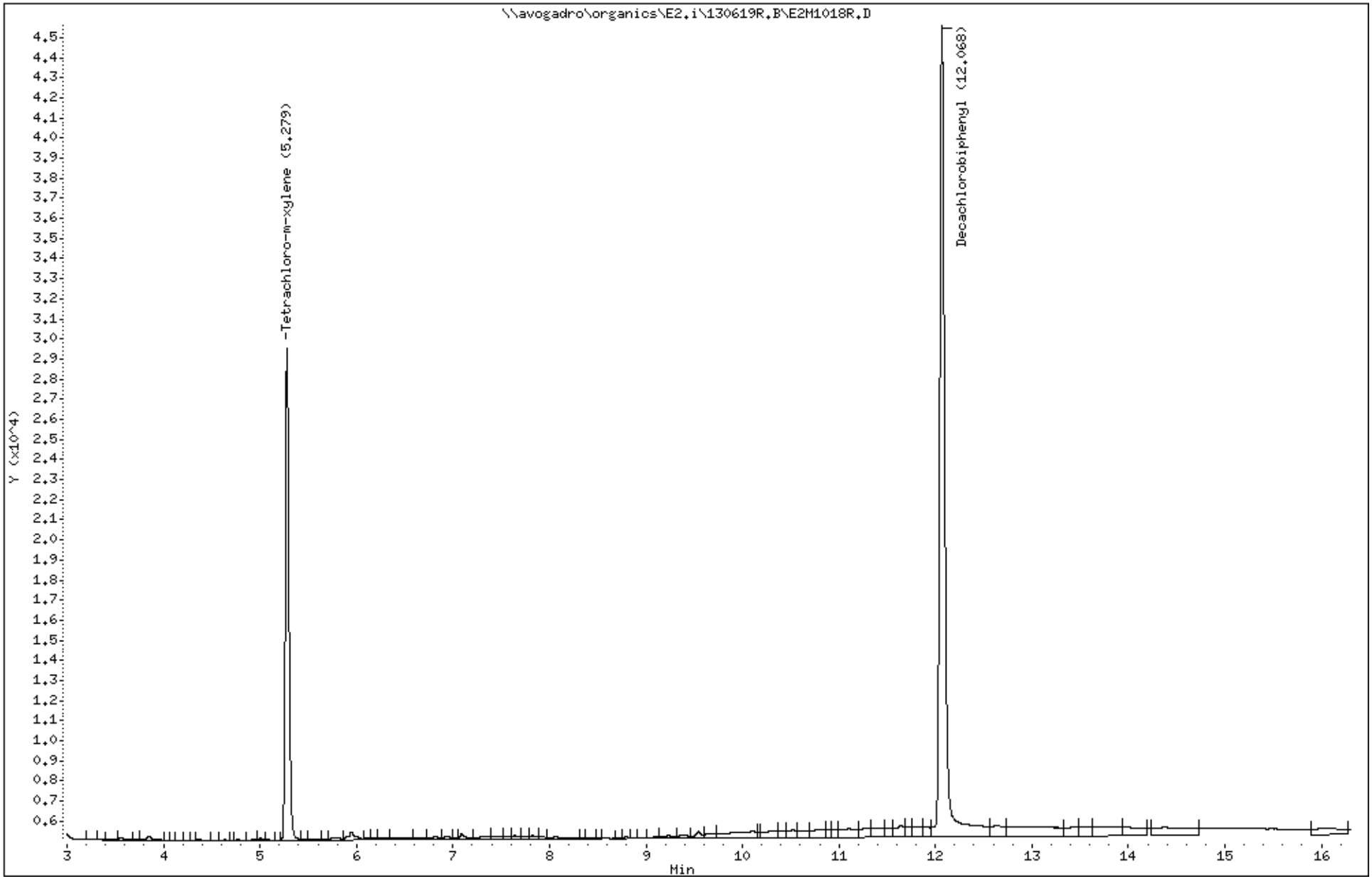
Data file : \\avogadro\organics\E2.i\130619R.B\E2M1018R.D
Lab Smp Id: M0975-18A Client Smp ID: COMP-E-061313
Inj Date : 19-JUN-2013 13:55
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : M0975-18A,,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.279	5.242	0.037	24325	0.04938		16	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
12.067	12.018	0.049	40336	0.09515		32	

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1018R.D
Date : 19-JUN-2013 13:55
Client ID: COMP-E-061313 Instrument: E2.i
Sample Info: M0975-18A,,72289,8082A.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: LIMS
Column phase: CLPPestII Column diameter: 0.32



6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E2

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0 CS6 0.5 CS7 CS8 CS9

GC Column: CLPPest ID: 0.53 (mm) Date(s) Analyzed (1): 05/29/2013 05/30/2013

COMPOUND	PEAK*	RT OF STANDARDS									__	RT WINDOW **	
		CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	RT	FROM	TO
AR1016	1	5.759	5.759	5.757	5.756	5.757	5.758				5.758	5.688	5.828
	2	6.432	6.432	6.431	6.430	6.431	6.432				6.431	6.361	6.501
	3	6.613	6.613	6.612	6.610	6.611	6.612				6.612	6.542	6.682
AR1260	1	8.640	8.640	8.638	8.636	8.636	8.638				8.638	8.568	8.708
	2	8.893	8.892	8.890	8.887	8.886	8.892				8.890	8.820	8.960
	3	9.440	9.440	9.438	9.435	9.435	9.437				9.438	9.368	9.508
AR1242	1	6.609	6.610	6.610	6.610	6.609	6.611				6.610	6.540	6.680
	2	6.689	6.690	6.690	6.690	6.689	6.690				6.690	6.620	6.760
	3	6.870	6.870	6.871	6.871	6.870	6.870				6.870	6.800	6.940
AR1248	1	6.690	6.691	6.690	6.690	6.690	6.691				6.690	6.620	6.760
	2	7.118	7.119	7.118	7.117	7.117	7.119				7.118	7.048	7.188
	3	7.218	7.219	7.219	7.218	7.217	7.220				7.218	7.148	7.288
AR1254	1	7.818	7.818	7.818	7.817	7.817	7.819				7.818	7.748	7.888
	2	8.095	8.095	8.095	8.095	8.094	8.095				8.095	8.025	8.165
	3	8.215	8.215	8.215	8.213	8.213	8.215				8.214	8.144	8.284
TCX (A)		4.566	4.566	4.564	4.564	4.565					4.565	4.515	4.615
DCB (A)		10.730	10.730	10.730	10.728	10.729					10.729	10.629	10.829

* At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; 0.05 minutes for tetrachloro-m-xylene; ± 0.10 minutes for decachlorobiphenyl.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E2

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0 CS6 0.5 CS7 CS8 CS9

GC Column: CLPPestII ID: 0.53 (mm) Date(s) Analyzed (1): 05/29/2013 05/30/2013

COMPOUND	PEAK*	RT OF STANDARDS									__	RT WINDOW **	
		CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	RT	FROM	TO
AR1016	1	7.242	7.242	7.241	7.239	7.241	7.242				7.241	7.171	7.311
	2	7.403	7.402	7.401	7.399	7.401	7.403				7.401	7.331	7.471
	3	7.519	7.518	7.518	7.516	7.517	7.519				7.518	7.448	7.588
AR1260	1	9.055	9.054	9.053	9.051	9.051	9.055				9.053	8.983	9.123
	2	9.220	9.219	9.218	9.216	9.216	9.220				9.218	9.148	9.288
	3	9.519	9.517	9.517	9.514	9.514	9.517				9.516	9.446	9.586
AR1242	1	6.673	6.672	6.672	6.672	6.671	6.673				6.672	6.602	6.742
	2	6.988	6.988	6.988	6.988	6.987	6.988				6.988	6.918	7.058
	3	7.239	7.239	7.240	7.239	7.238	7.240				7.239	7.169	7.309
AR1248	1	7.397	7.399	7.398	7.398	7.397	7.399				7.398	7.328	7.468
	2	7.615	7.616	7.616	7.615	7.614	7.617				7.615	7.545	7.685
	3	7.900	7.900	7.900	7.899	7.899	7.901				7.900	7.830	7.970
AR1254	1	8.310	8.310	8.309	8.308	8.309	8.311				8.309	8.239	8.379
	2	8.480	8.480	8.479	8.478	8.478	8.481				8.479	8.409	8.549
	3	8.893	8.893	8.892	8.890	8.891	8.894				8.892	8.822	8.962
TCX (A)		5.247	5.244	5.242	5.242	5.243					5.243	5.193	5.293
DCB (A)		12.021	12.020	12.020	12.017	12.018					12.019	11.919	12.119

* At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; 0.05 minutes for tetrachloro-m-xylene; ± 0.10 minutes for decachlorobiphenyl.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLOR INITIAL CALIBRATION (MULTIPOINT)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E2 Date(s) Analyzed: 05/29/2013 05/30/2013

GC Column: CLPPest ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0 CS6 0.5 CS7 CS8 CS9 16.0

COMPOUND	PEAK [1]	CALIBRATION FACTORS (CFs) CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	% RSD
AR1016	1	25330	23695	21603	21023	17928	26160				13.5
	2	40330	38595	35643	36054	31359	41360				9.8
	3	21560	20825	19280	19531	17168	22060				8.9
AR1260	1	43620	42770	39533	41163	37762	45440				6.7
	2	36170	36835	34713	36926	35371	38100				3.3
	3	50830	51680	48118	51158	46084	63100				11.4
AR1242	1	15950	15530	15288	14774	14572	16720				5.1
	2	10690	10720	10723	10755	10819	11160				1.6
	3	14440	13935	13260	12534	11887	15620				9.9
AR1248	1	6040	5695	5568	5594	5373	6260				5.7
	2	27170	24980	23215	21988	20123	29220				13.8
	3	16900	15800	15130	14810	13852	17840				9.2
AR1254	1	37460	36125	34093	31211	29086	40340				11.9
	2	24940	24180	23890	22731	21897	24860				5.1
	3	35990	36325	35763	34180	33066	36880				4.1
DCB (A)	l	24188000	21215650	18460225	17371713	16706981					15.8
TCX (A)	e	586600	577200	568600	580675	576925					1.1

[1] At least three peaks for each column are required for identification of Aroclors.

6P - FORM VI ARO-2

AROCLOR INITIAL CALIBRATION (MULTIPOINT)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E2 Date(s) Analyzed: 05/29/2013 05/30/2013

GC Column: CLPPestII ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0 CS6 0.5 CS7 CS8 CS9 16.0

COMPOUND	PEAK [1]	CALIBRATION FACTORS (CFs) CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	% RSD
AR1016	1	41420	39070	35705	35159	30241	46940				15.1
	2	22200	20775	18960	19138	16253	27340				18.2
	3	14670	13945	12865	13060	11580	19140				18.5
AR1260	1	34900	32835	30065	30830	27119	41000				14.6
	2	37330	37195	34483	35140	31524	45680				13.0
	3	37290	37230	34693	35569	32683	45560				12.0
AR1242	1	16730	15545	15008	14104	13333	18820				12.6
	2	9060	8280	8095	7813	7547	10080				11.1
	3	31640	29630	28598	27146	25328	33560				10.2
AR1248	1	10210	9165	8518	8194	7563	10880				13.9
	2	21770	19640	18050	16656	14972	24200				17.6
	3	25320	23255	21708	20444	18906	27860				14.3
AR1254	1	29100	28920	27293	24555	21419	32920				14.6
	2	29820	29735	28953	26334	23956	32940				10.9
	3	33380	35355	35625	33496	31710	35920				4.8
DCB (A)	l	480600	462950	411850	389900	374350					10.9
TCX (A)	e	509200	504900	483400	487175	478413					2.8

[1] At least three peaks for each column are required for identification of Aroclors.

6Q - FORM VI ARO-3

AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E2 Date(s) Analyzed: 05/29/2013 05/30/2013

GC Column: CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK [1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	0.4	1	3.76	3.69	3.83	6318
		2	4.35	4.28	4.42	1900
		3	4.84	4.77	4.91	7090
		4				
		5				
Aroclor-1232	0.4	1	4.84	4.77	4.91	4873
		2	5.16	5.09	5.23	14375
		3	6.06	5.99	6.13	5235
		4				
		5				

[1] At least three peaks for each column are required for identification of multicomponent analytes.

6Q - FORM VI ARO-3

AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Instrument ID: E2 Date(s) Analyzed: 05/29/2013 05/30/2013

GC Column: CLPPestII ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK [1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	0.4	1	4.40	4.33	4.47	5235
		2	5.06	4.99	5.13	1820
		3	5.76	5.69	5.83	6620
		4				
		5				
Aroclor-1232	0.4	1	5.76	5.69	5.83	4428
		2	5.99	5.92	6.06	3448
		3	6.08	6.01	6.15	12360
		4				
		5				

[1] At least three peaks for each column are required for identification of multicomponent analytes.

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 05/29/2013 05/30/2013

EPA Sample No. (AR####3##): AR16603DK Date Analyzed: 06/19/2013

Lab Sample ID: AR16603DK Time Analyzed: 9:31

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	__ CF	CF	%D
AR1016	1	5.796	5.688	5.828	22622.91667	22502.5	-0.5
	2	6.465	6.361	6.501	37223.33333	34370	-7.7
	3	6.646	6.542	6.682	20070.625	18917.5	-5.7
AR1260	1	8.670	8.568	8.708	41714.47917	38547.5	-7.6
	2	8.923	8.820	8.960	36352.5	34950	-3.9
	3	9.470	9.368	9.508	51828.125	49937.5	-3.6
TCX		4.606	4.515	4.615	578000	578850	0.1
DCB		10.771	10.629	10.829	19588513.75	20000500	2.1

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 05/29/2013 05/30/2013

EPA Sample No. (AR####3##): AR16603DK Date Analyzed: 06/19/2013

Lab Sample ID: AR16603DK Time Analyzed: 9:31

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	__ CF	CF	%D
AR1016	1	7.267	7.171	7.311	38089.0625	33545	-11.9
	2	7.426	7.331	7.471	20777.60417	18007.5	-13.3
	3	7.543	7.448	7.588	14210	12115	-14.7
AR1260	1	9.077	8.983	9.123	32791.5625	29927.5	-8.7
	2	9.243	9.148	9.288	36891.875	32372.5	-12.3
	3	9.544	9.446	9.586	37170.72917	32885	-11.5
TCX		5.281	5.193	5.293	492617.5	466150	-5.4
DCB		12.069	11.919	12.119	423930	420800	-0.7

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 05/29/2013 05/30/2013

EPA Sample No. (AR####3##): AR16603DL Date Analyzed: 06/19/2013

Lab Sample ID: AR16603DL Time Analyzed: 14:35

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	__ CF	CF	%D
AR1016	1	5.794	5.688	5.828	22622.91667	22367.5	-1.1
	2	6.464	6.361	6.501	37223.33333	34350	-7.7
	3	6.644	6.542	6.682	20070.625	18642.5	-7.1
AR1260	1	8.672	8.568	8.708	41714.47917	36067.5	-13.5
	2	8.926	8.820	8.960	36352.5	33605	-7.6
	3	9.470	9.368	9.508	51828.125	48402.5	-6.6
TCX		4.604	4.515	4.615	578000	585000	1.2
DCB		10.771	10.629	10.829	19588513.75	19961300	1.9

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 05/29/2013 05/30/2013

EPA Sample No. (AR####3##): AR16603DL Date Analyzed: 06/19/2013

Lab Sample ID: AR16603DL Time Analyzed: 14:35

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	__ CF	CF	%D
AR1016	1	7.267	7.171	7.311	38089.0625	34285	-10.0
	2	7.427	7.331	7.471	20777.60417	18502.5	-10.9
	3	7.543	7.448	7.588	14210	12425	-12.6
AR1260	1	9.077	8.983	9.123	32791.5625	29860	-8.9
	2	9.245	9.148	9.288	36891.875	32330	-12.4
	3	9.545	9.446	9.586	37170.72917	33537.5	-9.8
TCX		5.281	5.193	5.293	492617.5	496200	0.7
DCB		12.070	11.919	12.119	423930	428175	1.0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 05/29/2013 05/30/2013

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.565 DCB: 10.729

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR12213D2	E2M0446F.D	5/29/2013	16:02	4.561	10.723
02	AR12323D2	E2M0449F.D	5/29/2013	17:01	4.559	10.724
03	AR12421D2	E2M0452F.D	5/29/2013	18:00	4.562	10.727
04	AR12426D2	E2M0453F.D	5/29/2013	18:20	4.562	10.728
05	AR12422D2	E2M0454F.D	5/29/2013	18:40	4.563	10.727
06	AR12423D2	E2M0455F.D	5/29/2013	19:00	4.563	10.728
07	AR12424D2	E2M0456F.D	5/29/2013	19:19	4.563	10.727
08	AR12425D2	E2M0457F.D	5/29/2013	19:39	4.563	10.725
09	AR12481D2	E2M0458F.D	5/29/2013	19:59	4.565	10.730
10	AR12486D2	E2M0459F.D	5/29/2013	20:19	4.566	10.732
11	AR12482D2	E2M0460F.D	5/29/2013	20:38	4.565	10.730
12	AR12483D2	E2M0461F.D	5/29/2013	20:58	4.564	10.729
13	AR12484D2	E2M0462F.D	5/29/2013	21:18	4.564	10.728
14	AR12485D2	E2M0463F.D	5/29/2013	21:38	4.563	10.727
15	AR12541D2	E2M0464F.D	5/29/2013	21:58	4.565	10.731
16	AR12546D2	E2M0465F.D	5/29/2013	22:17	4.566	10.731
17	AR12542D2	E2M0466F.D	5/29/2013	22:37	4.566	10.731
18	AR12543D2	E2M0467F.D	5/29/2013	22:57	4.566	10.730
19	AR12544D2	E2M0468F.D	5/29/2013	23:17	4.565	10.730
20	AR12545D2	E2M0469F.D	5/29/2013	23:36	4.565	10.729
21	AR12623D2	E2M0470F.D	5/29/2013	23:56	4.565	10.730
22	AR12683D2	E2M0471F.D	5/30/2013	0:16	4.566	10.729
23	AR16601D2	E2M0472F.D	5/30/2013	0:35	4.566	10.730
24	AR16606D2	E2M0473F.D	5/30/2013	0:55	4.566	10.728
25	AR16602D2	E2M0474F.D	5/30/2013	1:15	4.566	10.730
26	AR16603D2	E2M0475F.D	5/30/2013	1:34	4.564	10.730
27	AR16604D2	E2M0476F.D	5/30/2013	1:54	4.564	10.728

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 05/29/2013 05/30/2013

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION TCX: 4.565 DCB: 10.729					
	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
28	AR16605D2	E2M0477F.D	5/30/2013	2:14	4.565	10.729
29	AR16603DK	E2M1005F.D	6/19/2013	9:31	4.606	10.771
30	MB-72289	E2M1009F.D	6/19/2013	10:58	4.606	10.774
31	LCS-72289	E2M1010F.D	6/19/2013	11:17	4.603	10.767
32	LCSD-72289	E2M1011F.D	6/19/2013	11:37	4.602	10.767
33	COMP-A-061313	E2M1014F.D	6/19/2013	12:36	4.604	10.767
34	COMP-B-061313	E2M1015F.D	6/19/2013	12:56	4.604	10.768
35	COMP-C-061313	E2M1016F.D	6/19/2013	13:16	4.603	10.768
36	COMP-D-061313	E2M1017F.D	6/19/2013	13:36	4.603	10.767
37	COMP-E-061313	E2M1018F.D	6/19/2013	13:55	4.603	10.769
38	AR16603DL	E2M1020F.D	6/19/2013	14:35	4.604	10.771

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 05/29/2013 05/30/2013

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 5.243 DCB: 12.019

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR12213D2	E2M0446R.D	5/29/2013	16:02	5.238	12.011
02	AR12323D2	E2M0449R.D	5/29/2013	17:01	5.236	12.012
03	AR12421D2	E2M0452R.D	5/29/2013	18:00	5.240	12.014
04	AR12426D2	E2M0453R.D	5/29/2013	18:20	5.240	12.018
05	AR12422D2	E2M0454R.D	5/29/2013	18:40	5.241	12.016
06	AR12423D2	E2M0455R.D	5/29/2013	19:00	5.241	12.017
07	AR12424D2	E2M0456R.D	5/29/2013	19:19	5.241	12.016
08	AR12425D2	E2M0457R.D	5/29/2013	19:39	5.240	12.014
09	AR12481D2	E2M0458R.D	5/29/2013	19:59	5.242	12.019
10	AR12486D2	E2M0459R.D	5/29/2013	20:19	5.243	12.021
11	AR12482D2	E2M0460R.D	5/29/2013	20:38	5.243	12.020
12	AR12483D2	E2M0461R.D	5/29/2013	20:58	5.242	12.018
13	AR12484D2	E2M0462R.D	5/29/2013	21:18	5.242	12.018
14	AR12485D2	E2M0463R.D	5/29/2013	21:38	5.241	12.017
15	AR12541D2	E2M0464R.D	5/29/2013	21:58	5.242	12.021
16	AR12546D2	E2M0465R.D	5/29/2013	22:17	5.246	12.022
17	AR12542D2	E2M0466R.D	5/29/2013	22:37	5.244	12.021
18	AR12543D2	E2M0467R.D	5/29/2013	22:57	5.243	12.021
19	AR12544D2	E2M0468R.D	5/29/2013	23:17	5.243	12.020
20	AR12545D2	E2M0469R.D	5/29/2013	23:36	5.243	12.020
21	AR12623D2	E2M0470R.D	5/29/2013	23:56	5.243	12.021
22	AR12683D2	E2M0471R.D	5/30/2013	0:16	5.243	12.019
23	AR16601D2	E2M0472R.D	5/30/2013	0:35	5.247	12.021
24	AR16606D2	E2M0473R.D	5/30/2013	0:55	5.246	12.020
25	AR16602D2	E2M0474R.D	5/30/2013	1:15	5.244	12.020
26	AR16603D2	E2M0475R.D	5/30/2013	1:34	5.242	12.020
27	AR16604D2	E2M0476R.D	5/30/2013	1:54	5.242	12.017

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 05/29/2013 05/30/2013

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION TCX: 5.243 DCB: 12.019							
	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
28	AR16605D2	E2M0477R.D	5/30/2013	2:14	5.243		12.018	
29	AR16603DK	E2M1005R.D	6/19/2013	9:31	5.281		12.069	
30	MB-72289	E2M1009R.D	6/19/2013	10:58	5.268		12.067	
31	LCS-72289	E2M1010R.D	6/19/2013	11:17	5.280		12.065	
32	LCSD-72289	E2M1011R.D	6/19/2013	11:37	5.280		12.067	
33	COMP-A-061313	E2M1014R.D	6/19/2013	12:36	5.281		12.067	
34	COMP-B-061313	E2M1015R.D	6/19/2013	12:56	5.280		12.067	
35	COMP-C-061313	E2M1016R.D	6/19/2013	13:16	5.280		12.067	
36	COMP-D-061313	E2M1017R.D	6/19/2013	13:36	5.280		12.067	
37	COMP-E-061313	E2M1018R.D	6/19/2013	13:55	5.279		12.068	
38	AR16603DL	E2M1020R.D	6/19/2013	14:35	5.281		12.070	

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.
LCS-72289

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCS-72289 Date(s) Analyzed: 06/19/2013 06/19/2013

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (MM)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
Aroclor-1016	1	5.794	5.688	5.828	125.1681		
	2	6.464	6.361	6.501	119.2173		
COLUMN 1	3	6.644	6.542	6.682	120.4081		
	4						
	5					121.597847	
	1	7.266	7.171	7.311	114.9586		
	2	7.426	7.331	7.471	114.2416		
COLUMN 2	3	7.543	7.448	7.588	112.3622		
	4						
	5					113.854139	6.8
Aroclor-1260	1	8.668	8.568	8.708	114.5645		
	2	8.922	8.820	8.960	117.5252		
COLUMN 1	3	9.468	9.368	9.508	135.3319		
	4						
	5					122.473874	
	1	9.076	8.983	9.123	116.2189		
	2	9.192	9.148	9.288	24.5402		
COLUMN 2	3	9.542	9.446	9.586	111.8084		
	4						
	5					84.189170	45.5

At least 3 peaks for each column are required for identification of multicomponent analytes

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.
LCSD-72289

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Lab Sample ID: LCSD-72289 Date(s) Analyzed: 06/19/2013 06/19/2013

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (MM)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
Aroclor-1016	1	5.793	5.688	5.828	124.2840		
	2	6.462	6.361	6.501	117.8651		
COLUMN 1	3	6.643	6.542	6.682	119.6608		
	4						
	5					120.603308	
	1	7.266	7.171	7.311	115.4225		
	2	7.427	7.331	7.471	114.7389		
COLUMN 2	3	7.543	7.448	7.588	114.0277		
	4						
	5					114.729689	5.1
Aroclor-1260	1	8.668	8.568	8.708	116.8899		
	2	8.921	8.820	8.960	120.6978		
COLUMN 1	3	9.467	9.368	9.508	138.2647		
	4						
	5					125.284121	
	1	9.076	8.983	9.123	119.0347		
	2	9.192	9.148	9.288	25.5973		
COLUMN 2	3	9.542	9.446	9.586	114.2566		
	4						
	5					86.296194	45.2

At least 3 peaks for each column are required for identification of multicomponent analytes

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0445F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

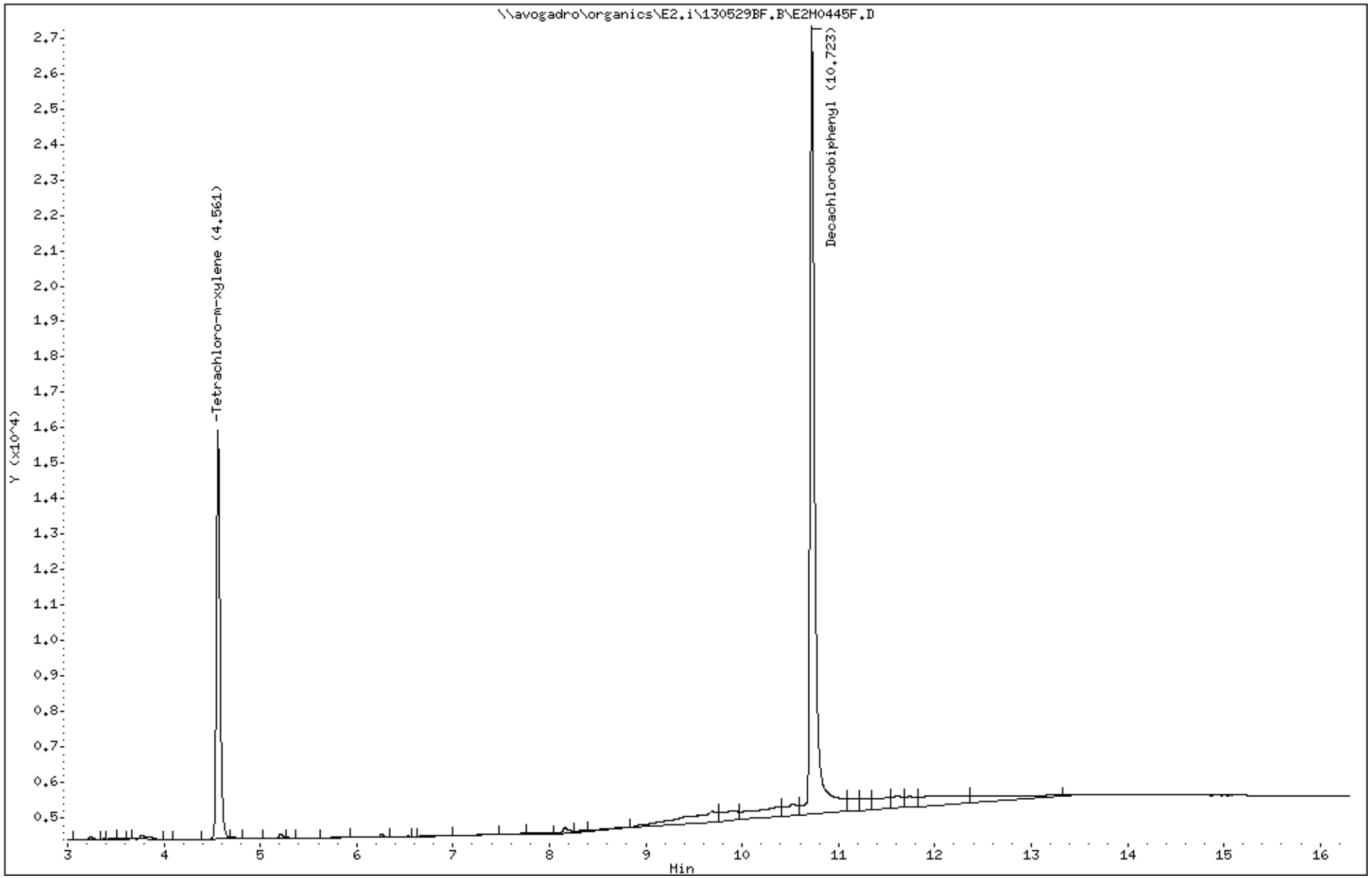
Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0445F.D
Lab Smp Id: AIBLKDA Client Smp ID: AIBLKDA
Inj Date : 29-MAY-2013 15:42
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AIBLKDA,AIBLKDA,,AIBLK.sub,,
Misc Info : 3,,INSTBLANK,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475F.D
Als bottle: 100 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: AIBLK.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.561	4.565	-0.004	11519	0.01993		0.20	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
10.723	10.728	-0.005	814728	0.04159		0.42	

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0445F.D
Date : 29-MAY-2013 15:42
Client ID: AIBLKDA
Instrument: E2.i
Sample Info: AIBLKDA,AIBLKDA,,AIBLK.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0445R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

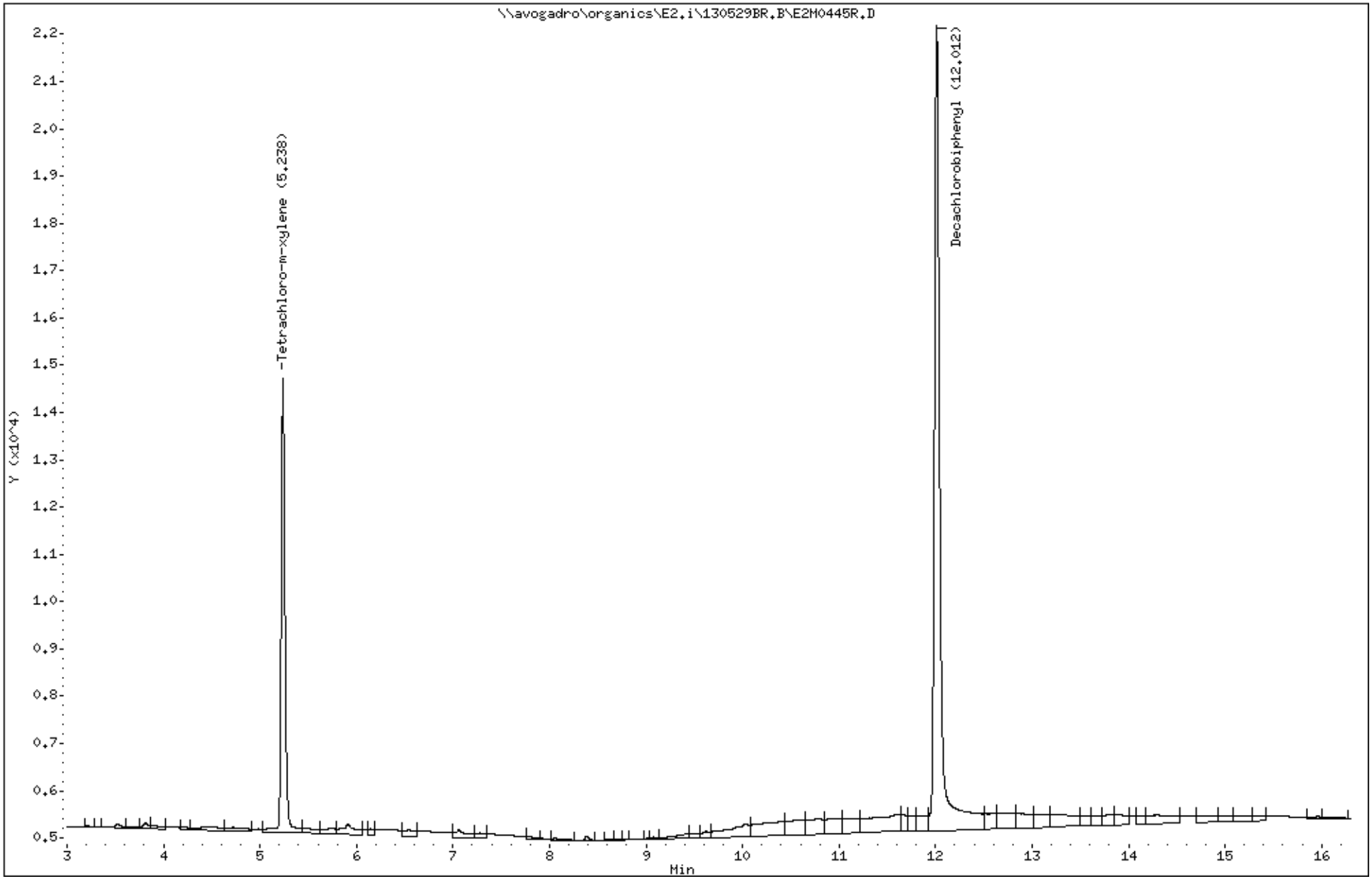
Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0445R.D
Lab Smp Id: AIBLKDA Client Smp ID: AIBLKDA
Inj Date : 29-MAY-2013 15:42
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AIBLKDA,AIBLKDA,,AIBLK.sub,,
Misc Info : 3,,INSTBLANK,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 100 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: AIBLK.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
5.237	5.242	-0.005	9613	0.01951	0.20		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
12.011	12.018	-0.007	17032	0.04018	0.40		

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0445R.D
Date : 29-MAY-2013 15:42
Client ID: AIBLKDA
Instrument: E2.i
Sample Info: AIBLKDA,AIBLKDA,,AIBLK,sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0446F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0446F.D
Lab Smp Id: AR12213D2 Client Smp ID: AR12213D2
Inj Date : 29-MAY-2013 16:02
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12213D2,AR12213D2,,ar1221.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475F.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1221.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

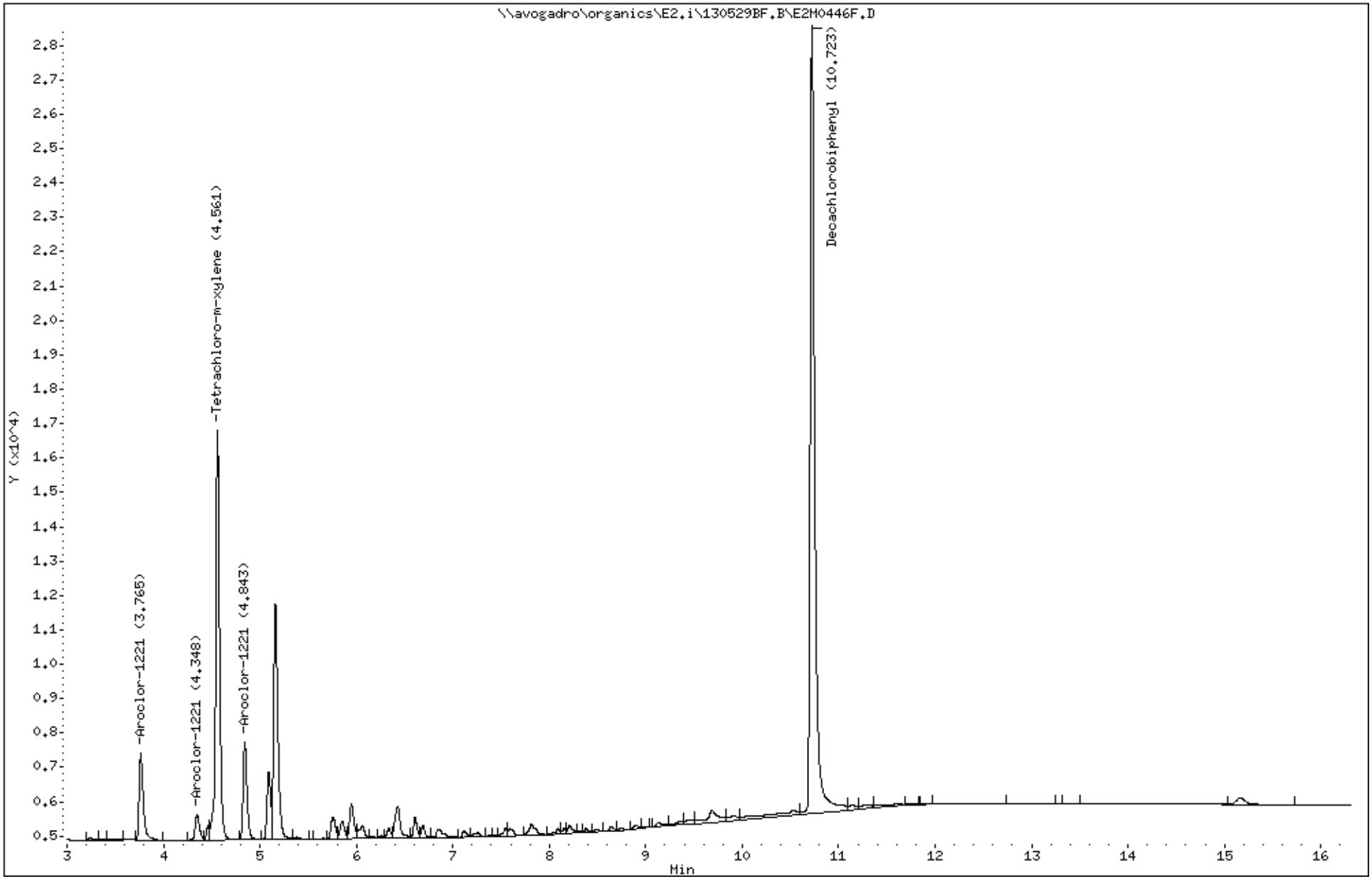
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.560	4.565	-0.005	11889	0.02000	0.020			(a)
3 Aroclor-1221					CAS #: 11104-28-2			
3.764	3.764	0.000	2527	0.40000	0.40	80.00- 120.00	100.00	(a)
4.348	4.348	0.000	760	0.40000	0.40	10.08- 50.08	30.08	
4.843	4.843	0.000	2836	0.40000	0.40	92.23- 132.23	112.23	
		Average of Peak Amounts =		0.40000				
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
10.723	10.728	-0.005	779876	0.04000	0.040			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0446F.D
Date : 29-MAY-2013 16:02
Client ID: AR12213D2
Instrument: E2.i
Sample Info: AR12213D2,AR12213D2,,ar1221.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0446R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0446R.D
Lab Smp Id: AR12213D2 Client Smp ID: AR12213D2
Inj Date : 29-MAY-2013 16:02
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12213D2,AR12213D2,,ar1221.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 16:02 Cal File: E2M0446R.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1221.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

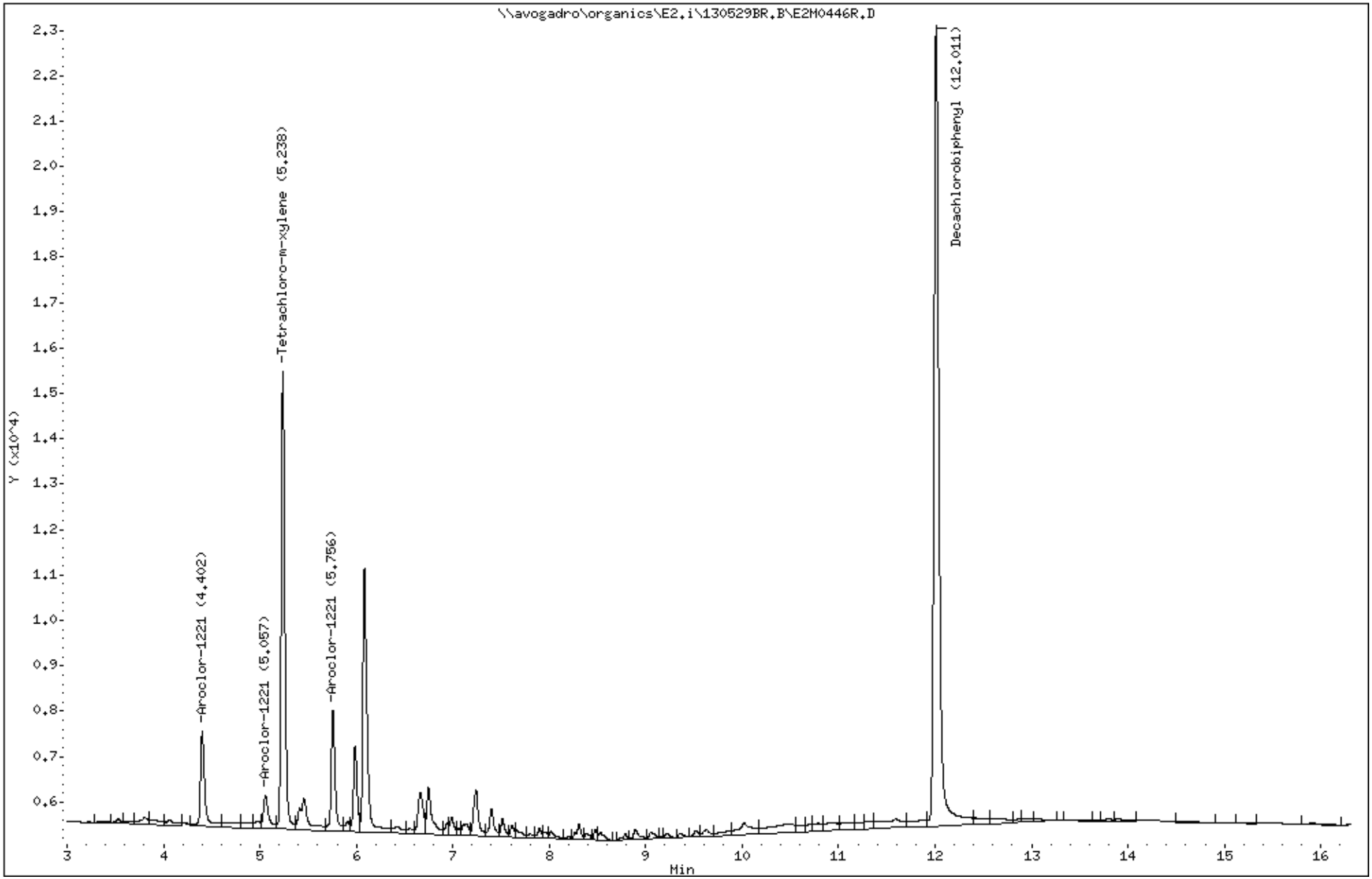
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.237	5.242	-0.005	10077	0.02000	0.020			(a)
2 Aroclor-1221						CAS #: 11104-28-2		
4.402	4.402	0.000	2094	0.40000	0.40	80.00- 120.00	100.00	(a)
5.057	5.057	0.000	728	0.40000	0.40	14.77- 54.77	34.77	
5.756	5.756	0.000	2648	0.40000	0.40	106.46- 146.46	126.46	
Average of Peak Amounts =				0.40000				
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.011	12.018	-0.007	17643	0.04000	0.040			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0446R.D
Date : 29-MAY-2013 16:02
Client ID: AR12213D2
Instrument: E2.i
Sample Info: AR12213D2,AR12213D2,,ar1221.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0449F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0449F.D
Lab Smp Id: AR12323D2 Client Smp ID: AR12323D2
Inj Date : 29-MAY-2013 17:01
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12323D2,AR12323D2,,ar1232.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475F.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1232.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

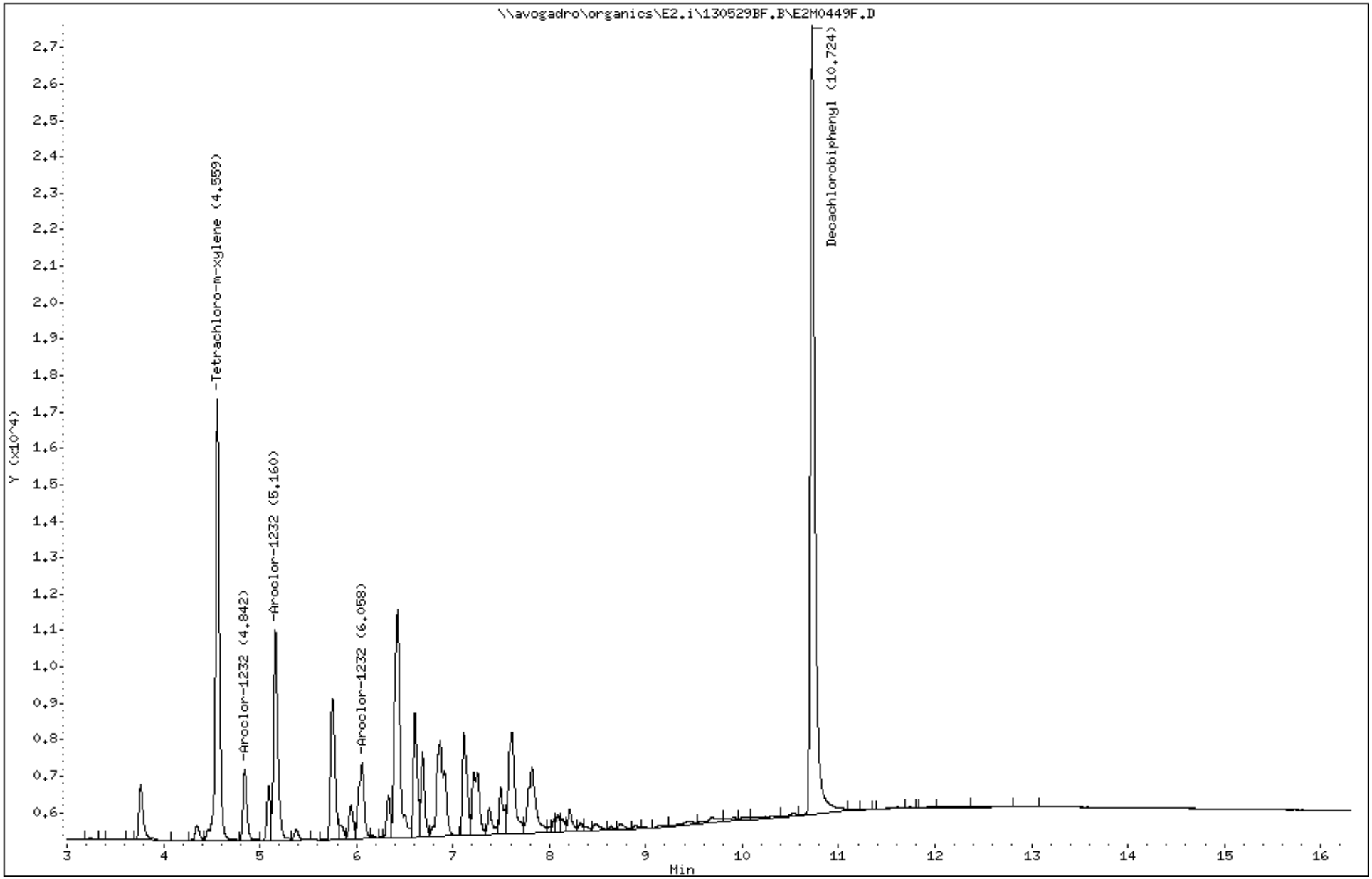
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.558	4.565	-0.007	12105	0.02000	0.020			(a)
4 Aroclor-1232						CAS #: 11141-16-5		
4.841	4.842	-0.001	1949	0.40000	0.40	80.00- 120.00	100.00	(a)
5.159	5.159	0.000	5750	0.40000	0.40	254.95- 294.95	295.02	
6.058	6.058	0.000	2094	0.40000	0.40	86.68- 126.68	107.44	
Average of Peak Amounts =				0.40000				
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.724	10.728	-0.004	727646	0.04000	0.040			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0449F.D
Date : 29-MAY-2013 17:01
Client ID: AR12323D2
Instrument: E2.i
Sample Info: AR12323D2,AR12323D2,,ar1232.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0449R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0449R.D
Lab Smp Id: AR12323D2 Client Smp ID: AR12323D2
Inj Date : 29-MAY-2013 17:01
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12323D2,AR12323D2,,ar1232.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 17:01 Cal File: E2M0449R.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1232.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

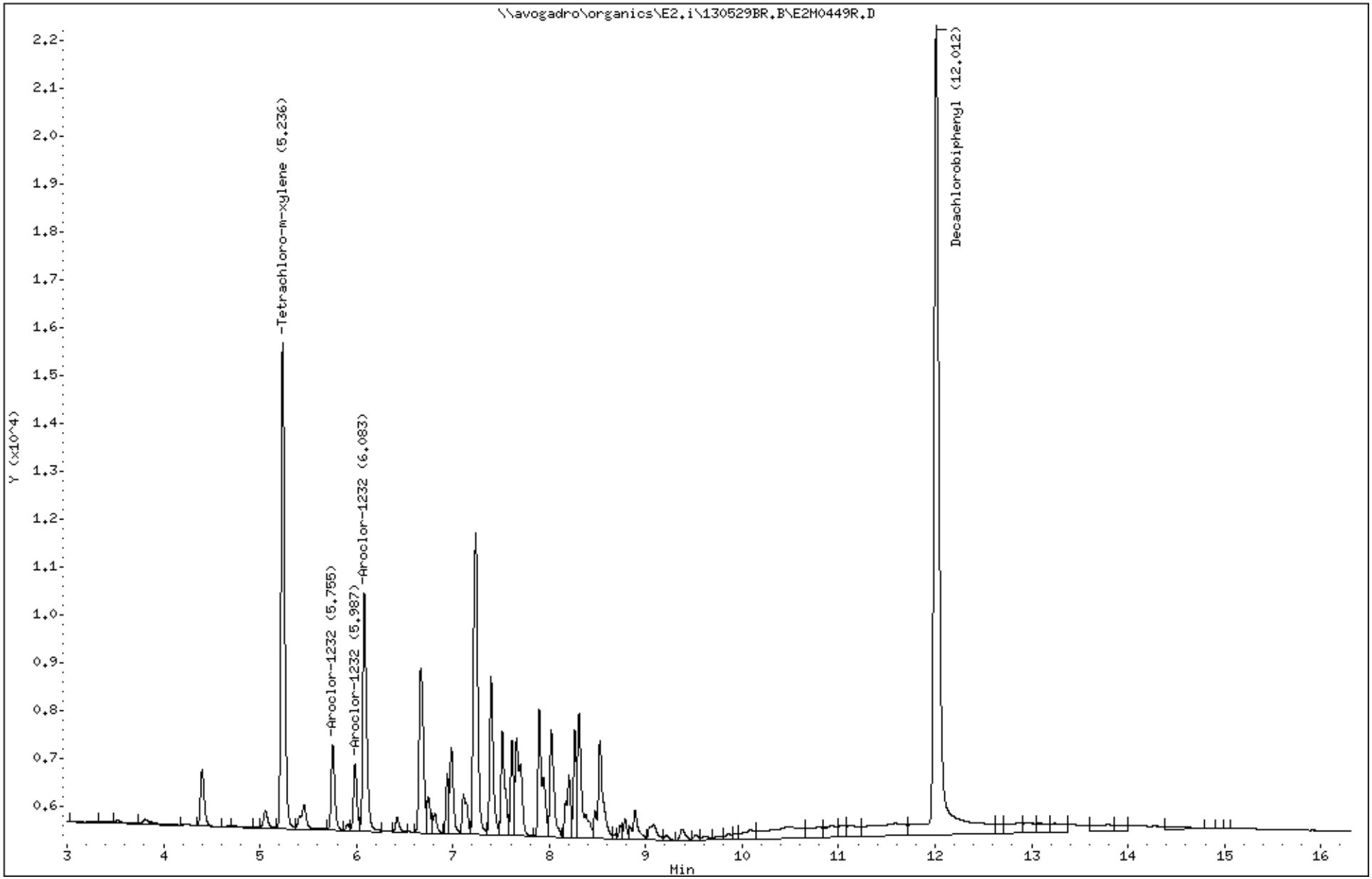
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.236	5.242	-0.006	10152	0.02000	0.020			(a)
3 Aroclor-1232					CAS #: 11141-16-5			
5.755	5.757	-0.002	1771	0.40000	0.40	80.00- 120.00	100.00	(a)
5.986	5.989	-0.003	1379	0.40000	0.40	57.20- 97.20	77.87	
6.082	6.084	-0.002	4944	0.40000	0.40	242.71- 282.71	279.16	
		Average of Peak Amounts =		0.40000				
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
12.011	12.018	-0.007	16906	0.04000	0.040			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0449R.D
Date : 29-MAY-2013 17:01
Client ID: AR12323D2 Instrument: E2.i
Sample Info: AR12323D2,AR12323D2,,ar1232.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: TM
Column phase: CLPPestII Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0452F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0452F.D
Lab Smp Id: AR12421D2 Client Smp ID: AR12421D2
Inj Date : 29-MAY-2013 18:00
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12421D2,AR12421D2,,ar1242.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 18:00 Cal File: E2M0452F.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

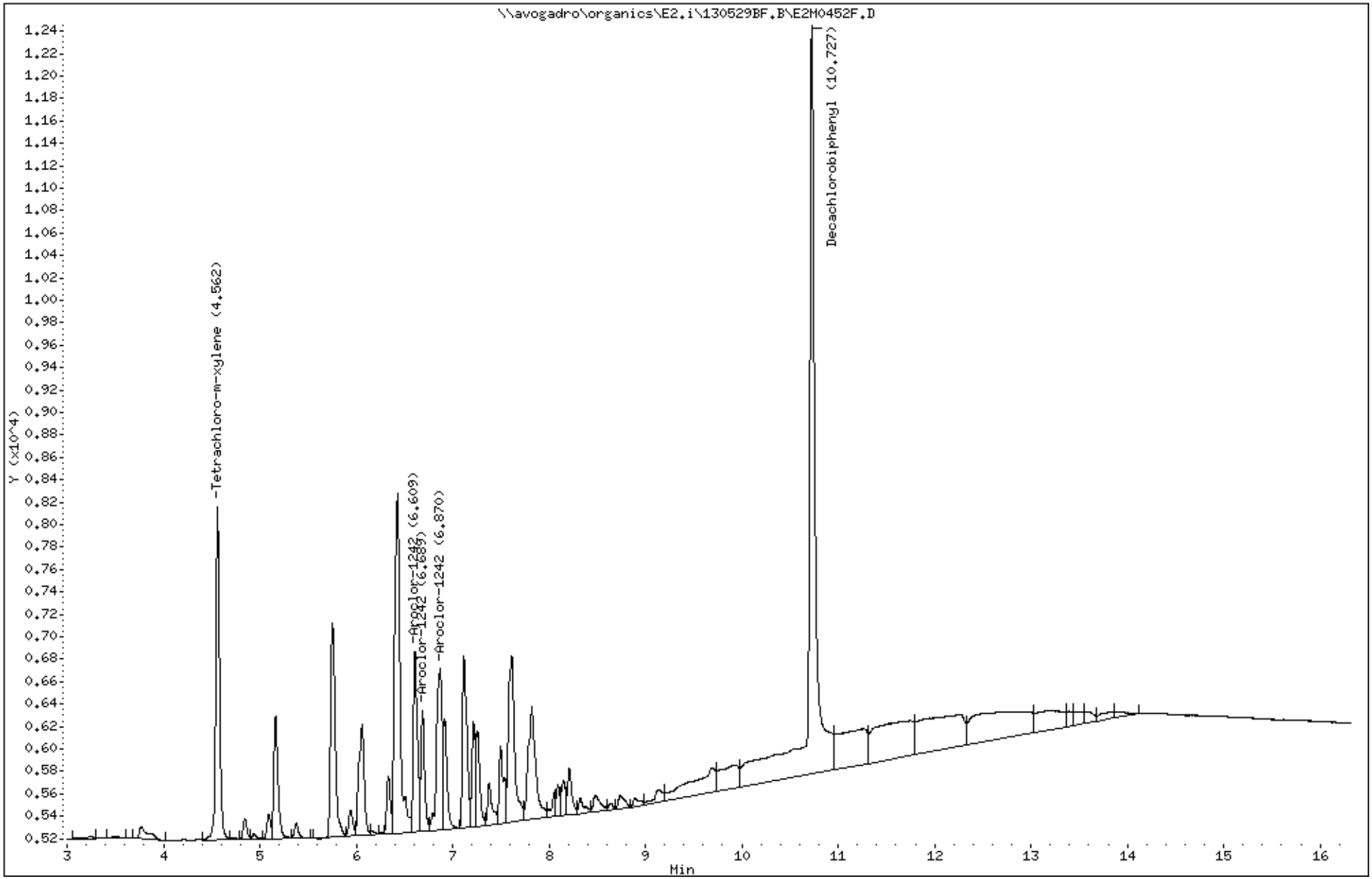
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.561	4.565	-0.004	2967	0.00500	0.0021			(a)
6 Aroclor-1242						CAS #: 53469-21-9		
6.609	6.608	0.001	1595	0.10000	0.10	80.00- 120.00	100.00	(a)
6.688	6.689	-0.001	1069	0.10000	0.100	54.24- 94.24	67.02	
6.869	6.870	-0.001	1444	0.10000	0.10	61.57- 101.57	90.53	
Average of Peak Amounts =					0.10000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.726	10.728	-0.002	346775	0.01000	0.0070			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0452F.D
Date : 29-MAY-2013 18:00
Client ID: AR12421D2
Instrument: E2.i
Sample Info: AR12421D2,AR12421D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0452R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0452R.D
Lab Smp Id: AR12421D2 Client Smp ID: AR12421D2
Inj Date : 29-MAY-2013 18:00
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12421D2,AR12421D2,,ar1242.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 18:00 Cal File: E2M0452R.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

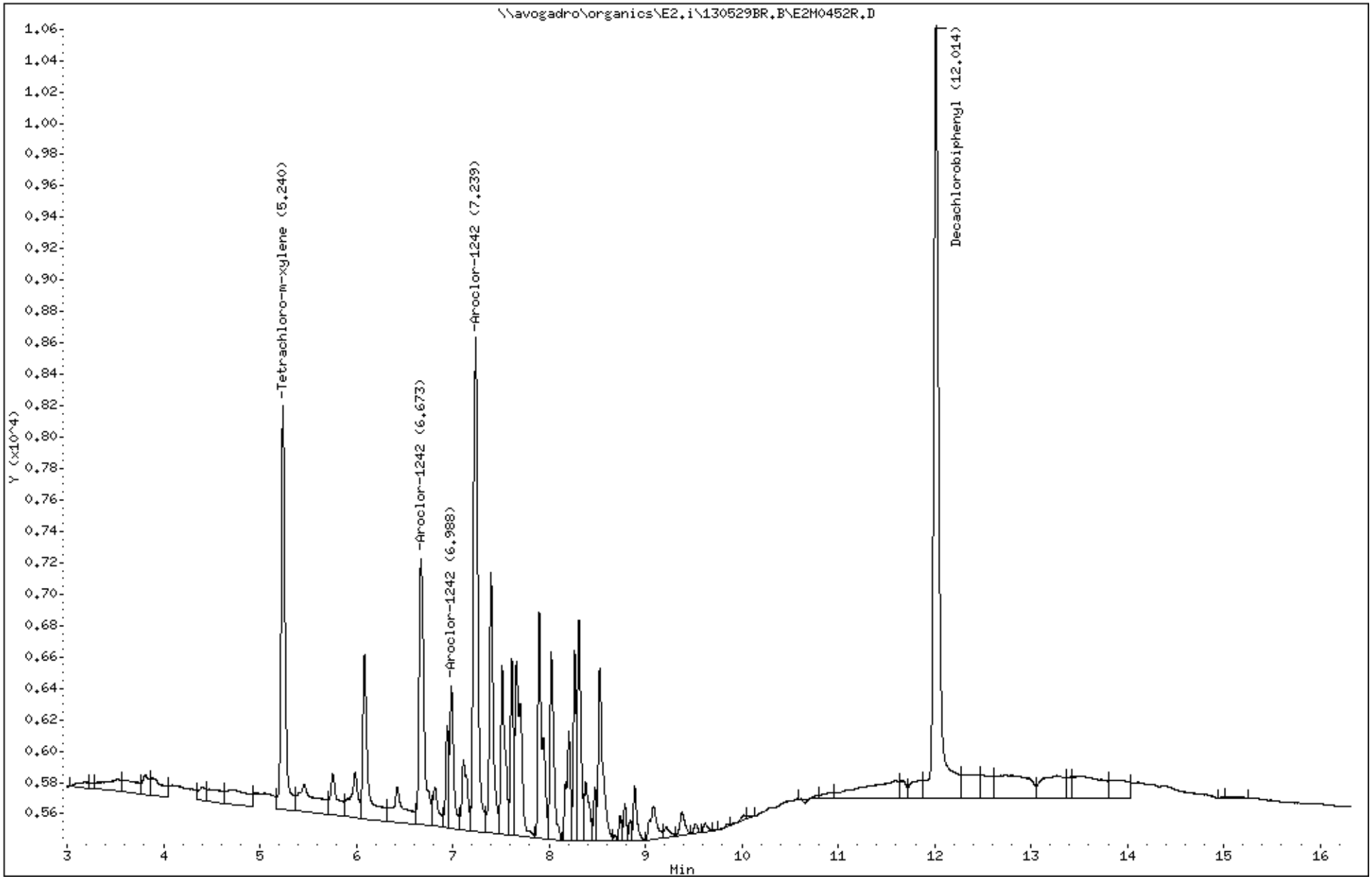
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.239	5.242	-0.003	2559	0.00500	0.0022			(a)
4 Aroclor-1242						CAS #: 53469-21-9		
6.672	6.670	0.002	1673	0.10000	0.10	80.00- 120.00	100.00	(a)
6.987	6.987	0.000	906	0.10000	0.10	36.61- 76.61	54.15	
7.239	7.238	0.001	3164	0.10000	0.10	169.97- 209.97	189.12	
Average of Peak Amounts =				0.10000				
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.014	12.018	-0.004	4920	0.01000	0.0055			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0452R.D
Date : 29-MAY-2013 18:00
Client ID: AR12421D2 Instrument: E2.i
Sample Info: AR12421D2,AR12421D2,,ar1242.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: TM
Column phase: CLPPestII Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0453F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0453F.D
Lab Smp Id: AR12426D2 Client Smp ID: AR12426D2
Inj Date : 29-MAY-2013 18:20
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12426D2,AR12426D2,,ar1242.sub,,
Misc Info : 1,6,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 18:20 Cal File: E2M0453F.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

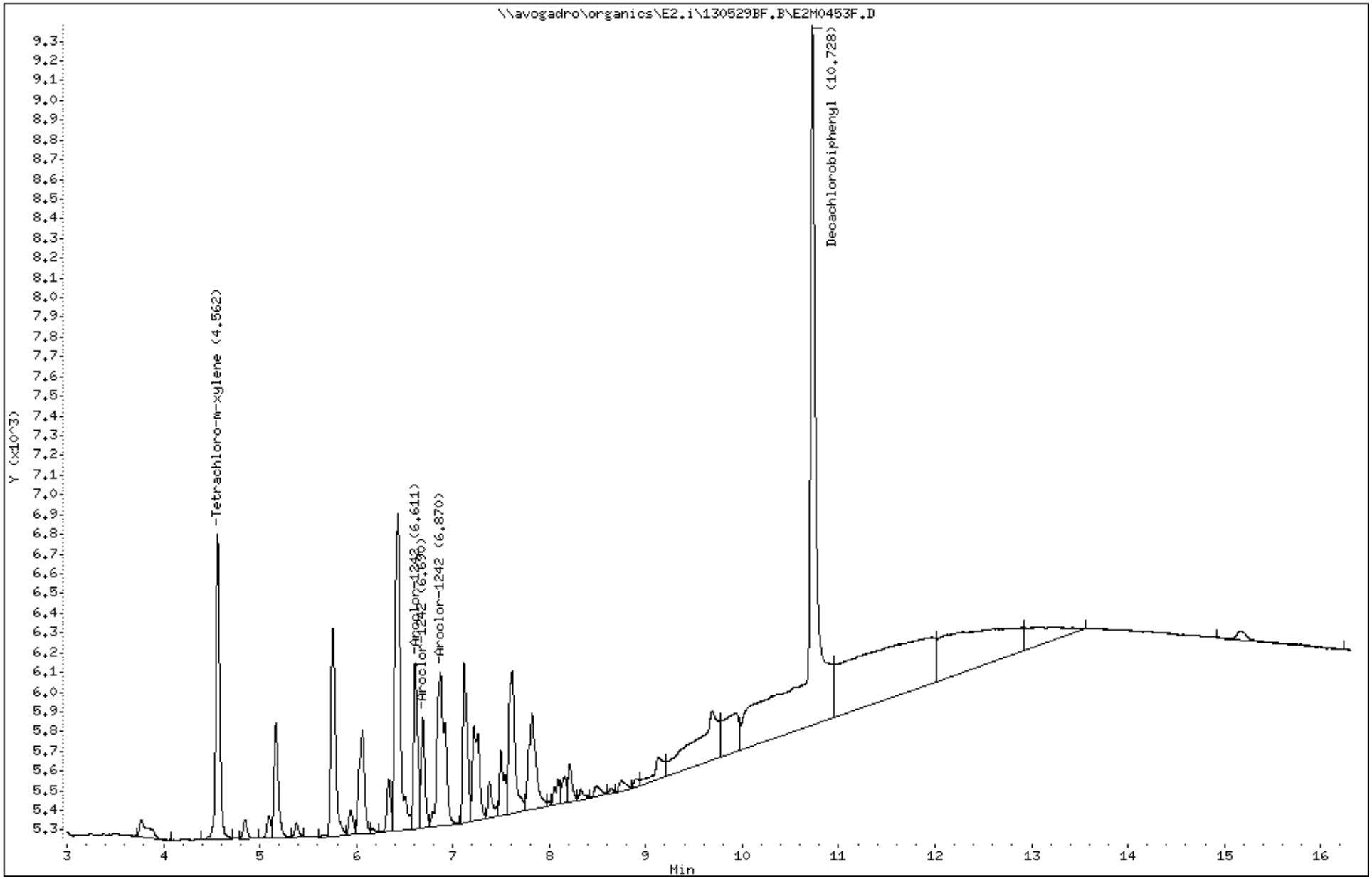
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.562	4.565	-0.003	1545	0.00000	0.0011			(a)
6 Aroclor-1242						CAS #: 53469-21-9		
6.610	6.608	0.002	836	0.05000	0.052	80.00- 120.00	100.00	(a)
6.689	6.689	0.000	558	0.05000	0.051	54.24- 94.24	66.75	
6.870	6.870	0.000	781	0.05000	0.054	61.57- 101.57	93.42	
Average of Peak Amounts =				0.05233				
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.728	10.728	0.000	234261	0.00000	0.0048			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0453F.D
Date : 29-MAY-2013 18:20
Client ID: AR12426D2
Instrument: E2.i
Sample Info: AR12426D2,AR12426D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0453R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0453R.D
Lab Smp Id: AR12426D2 Client Smp ID: AR12426D2
Inj Date : 29-MAY-2013 18:20
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12426D2,AR12426D2,,ar1242.sub,,
Misc Info : 1,6,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 18:20 Cal File: E2M0453R.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

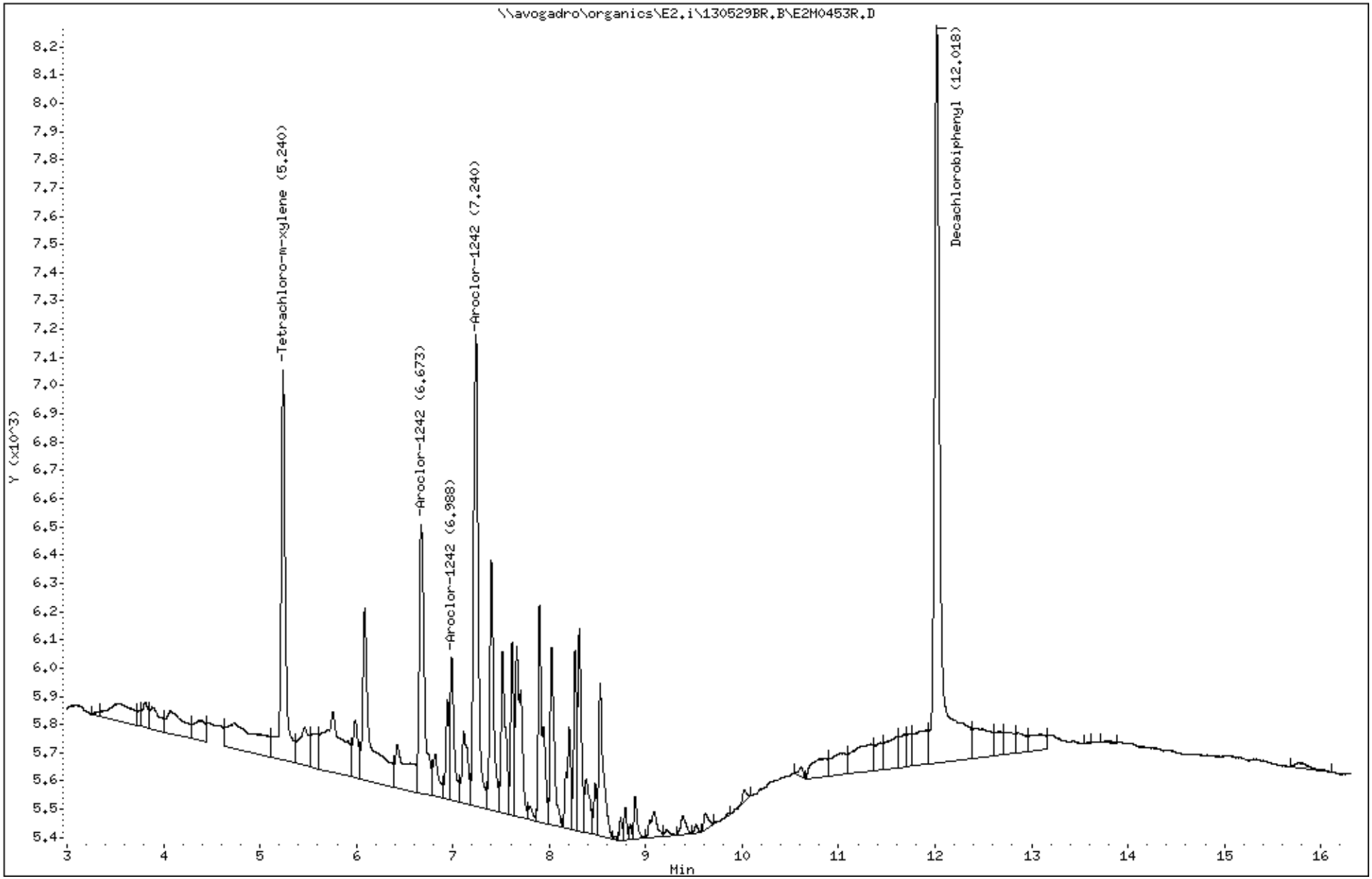
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.240	5.242	-0.002	1375	0.00000	0.0012			(a)
4 Aroclor-1242						CAS #: 53469-21-9		
6.672	6.670	0.002	941	0.05000	0.053	80.00- 120.00	100.00	(a)
6.988	6.987	0.001	504	0.05000	0.053	36.61- 76.61	53.56	
7.239	7.238	0.001	1678	0.05000	0.051	169.97- 209.97	178.32	
Average of Peak Amounts =				0.05233				
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.017	12.018	-0.001	2611	0.00000	0.0029			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0453R.D
Date : 29-MAY-2013 18:20
Client ID: AR12426D2 Instrument: E2.i
Sample Info: AR12426D2,AR12426D2,,ar1242.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: TM
Column phase: CLPPestII Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0454F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0454F.D
Lab Smp Id: AR12422D2 Client Smp ID: AR12422D2
Inj Date : 29-MAY-2013 18:40
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12422D2,AR12422D2,,ar1242.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 18:40 Cal File: E2M0454F.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

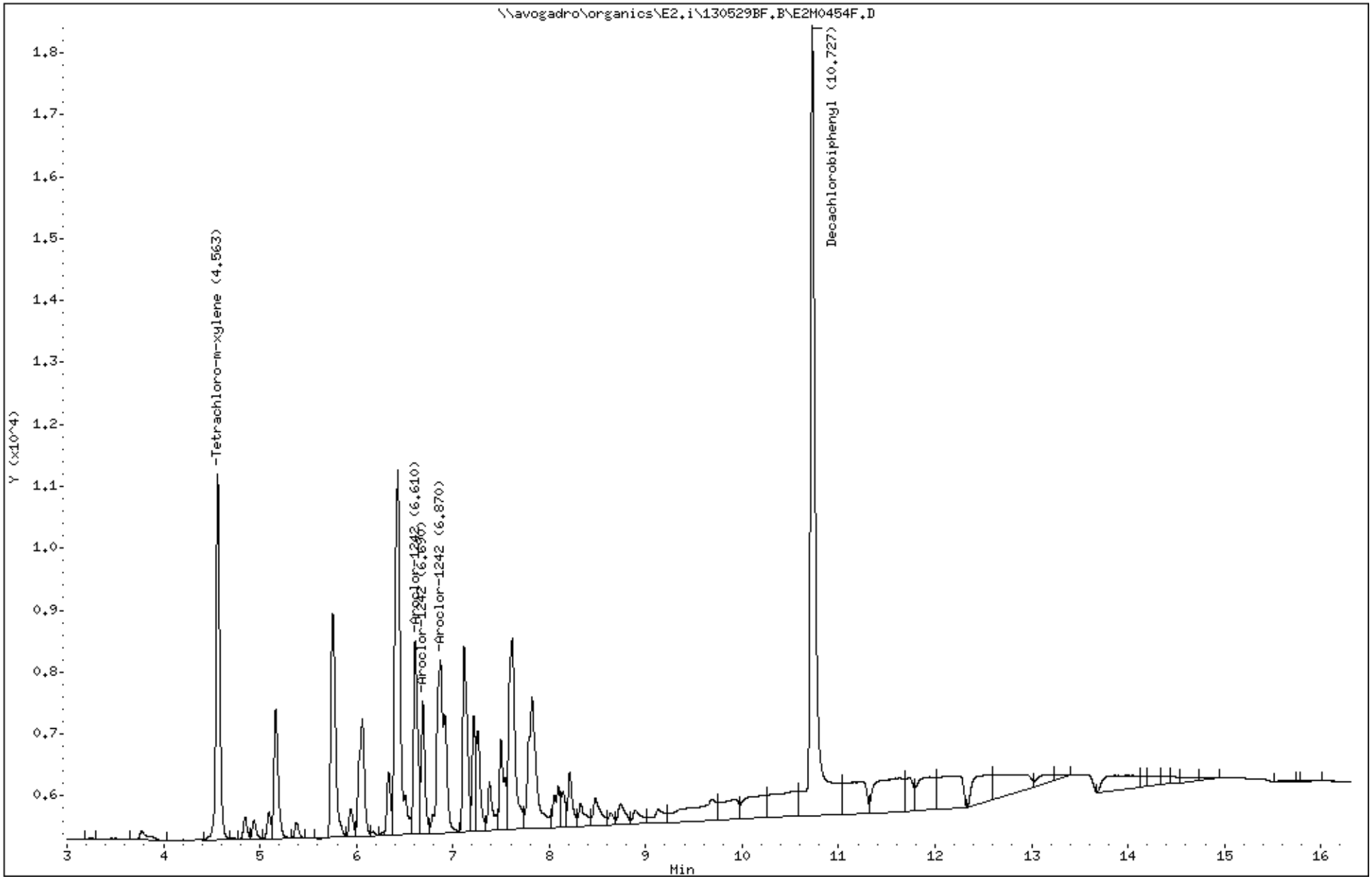
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.562	4.565	-0.003	5886	0.01000	0.0051			(a)
6 Aroclor-1242						CAS #: 53469-21-9		
6.609	6.608	0.001	3106	0.20000	0.20	80.00- 120.00	100.00	(a)
6.689	6.689	0.000	2144	0.20000	0.20	54.24- 94.24	69.03	
6.870	6.870	0.000	2787	0.20000	0.19	61.57- 101.57	89.73	
Average of Peak Amounts =					0.19667			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.726	10.728	-0.002	507782	0.02000	0.012			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0454F.D
Date : 29-MAY-2013 18:40
Client ID: AR12422D2
Instrument: E2.i
Sample Info: AR12422D2,AR12422D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0454R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0454R.D
Lab Smp Id: AR12422D2 Client Smp ID: AR12422D2
Inj Date : 29-MAY-2013 18:40
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12422D2,AR12422D2,,ar1242.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 18:40 Cal File: E2M0454R.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

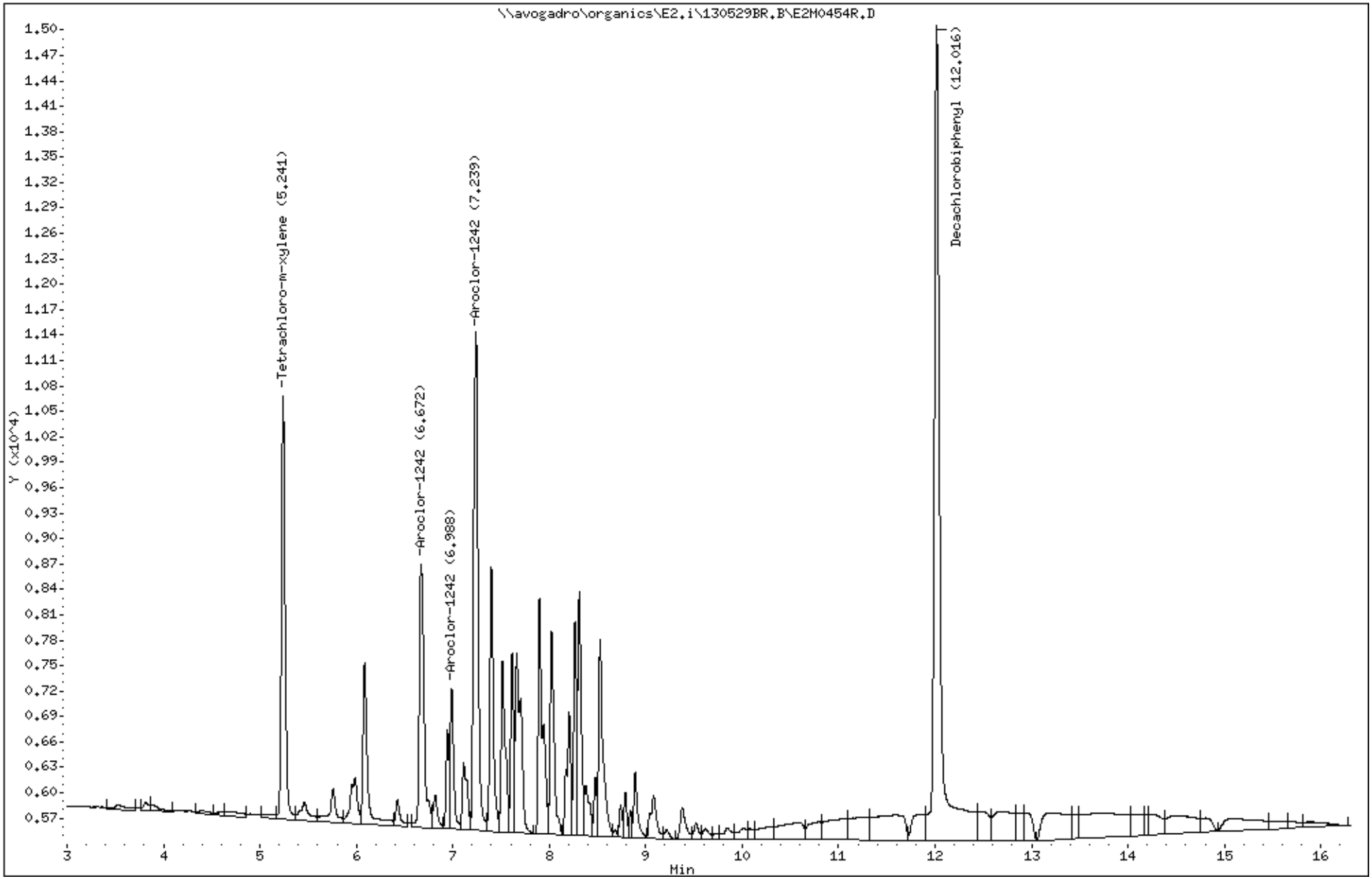
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.240	5.242	-0.002	4972	0.01000	0.0052			(a)
4 Aroclor-1242						CAS #: 53469-21-9		
6.672	6.670	0.002	3109	0.20000	0.18	80.00- 120.00	100.00	(a)
6.987	6.987	0.000	1656	0.20000	0.18	36.61- 76.61	53.26	
7.239	7.238	0.001	5926	0.20000	0.19	169.97- 209.97	190.61	
Average of Peak Amounts =					0.18333			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.016	12.018	-0.002	9612	0.02000	0.013			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0454R.D
Date : 29-MAY-2013 18:40
Client ID: AR12422D2
Instrument: E2.i
Sample Info: AR12422D2,AR12422D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0455F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0455F.D
Lab Smp Id: AR12423D2 Client Smp ID: AR12423D2
Inj Date : 29-MAY-2013 19:00
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12423D2,AR12423D2,,ar1242.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475F.D
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

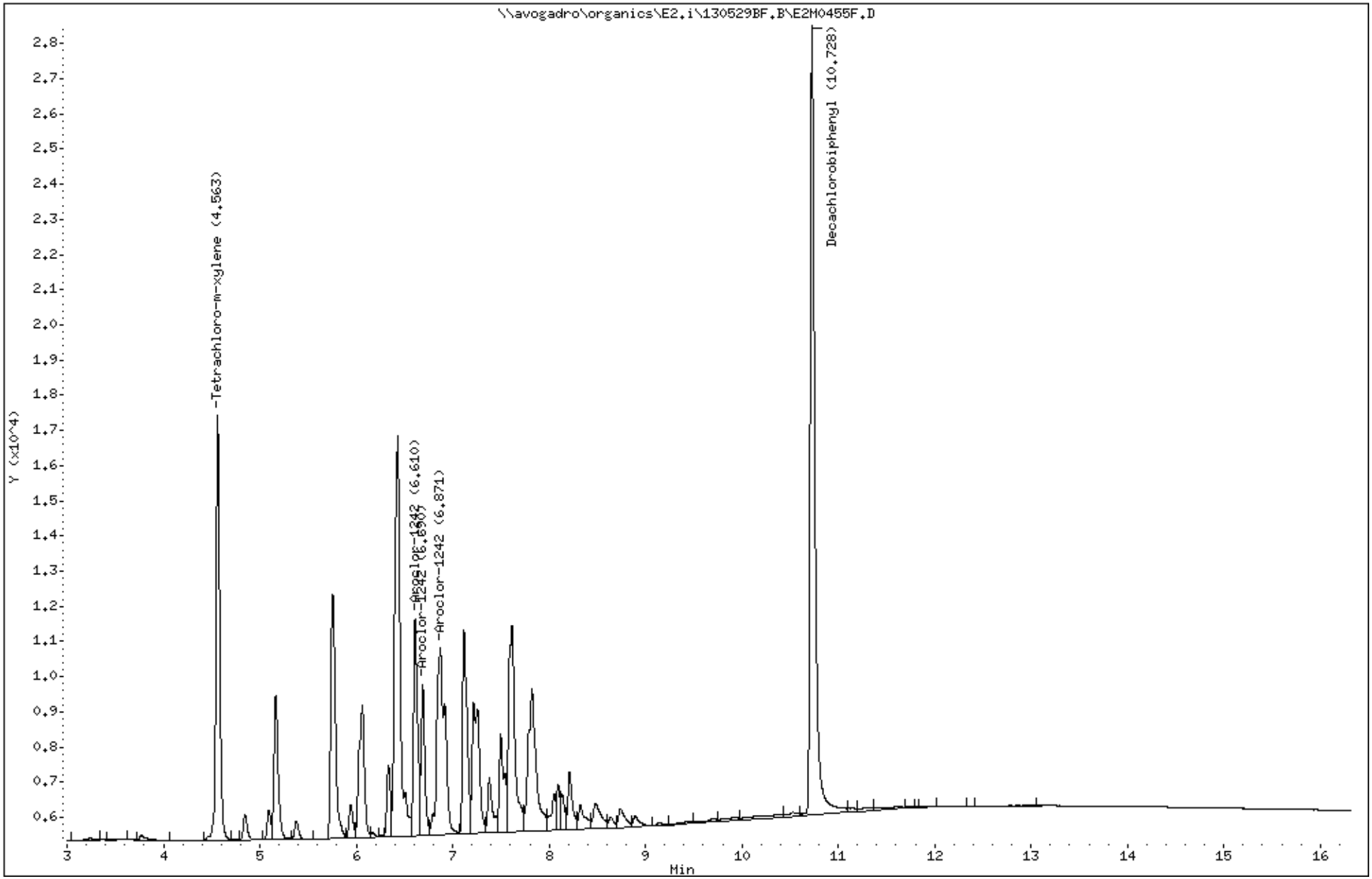
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.563	4.565	-0.002	12042	0.02000	0.020			(a)
6 Aroclor-1242					CAS #: 53469-21-9			
6.610	6.608	0.002	6115	0.40000	0.38	80.00- 120.00	100.00	(a)
6.690	6.689	0.001	4289	0.40000	0.40	54.24- 94.24	70.14	
6.870	6.870	0.000	5304	0.40000	0.37	61.57- 101.57	86.74	
Average of Peak Amounts =					0.38333			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
10.727	10.728	-0.001	763654	0.04000	0.029			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0455F.D
Date : 29-MAY-2013 19:00
Client ID: AR12423D2
Instrument: E2.i
Sample Info: AR12423D2,AR12423D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0455R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0455R.D
Lab Smp Id: AR12423D2 Client Smp ID: AR12423D2
Inj Date : 29-MAY-2013 19:00
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12423D2,AR12423D2,,ar1242.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 19:00 Cal File: E2M0455R.D
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

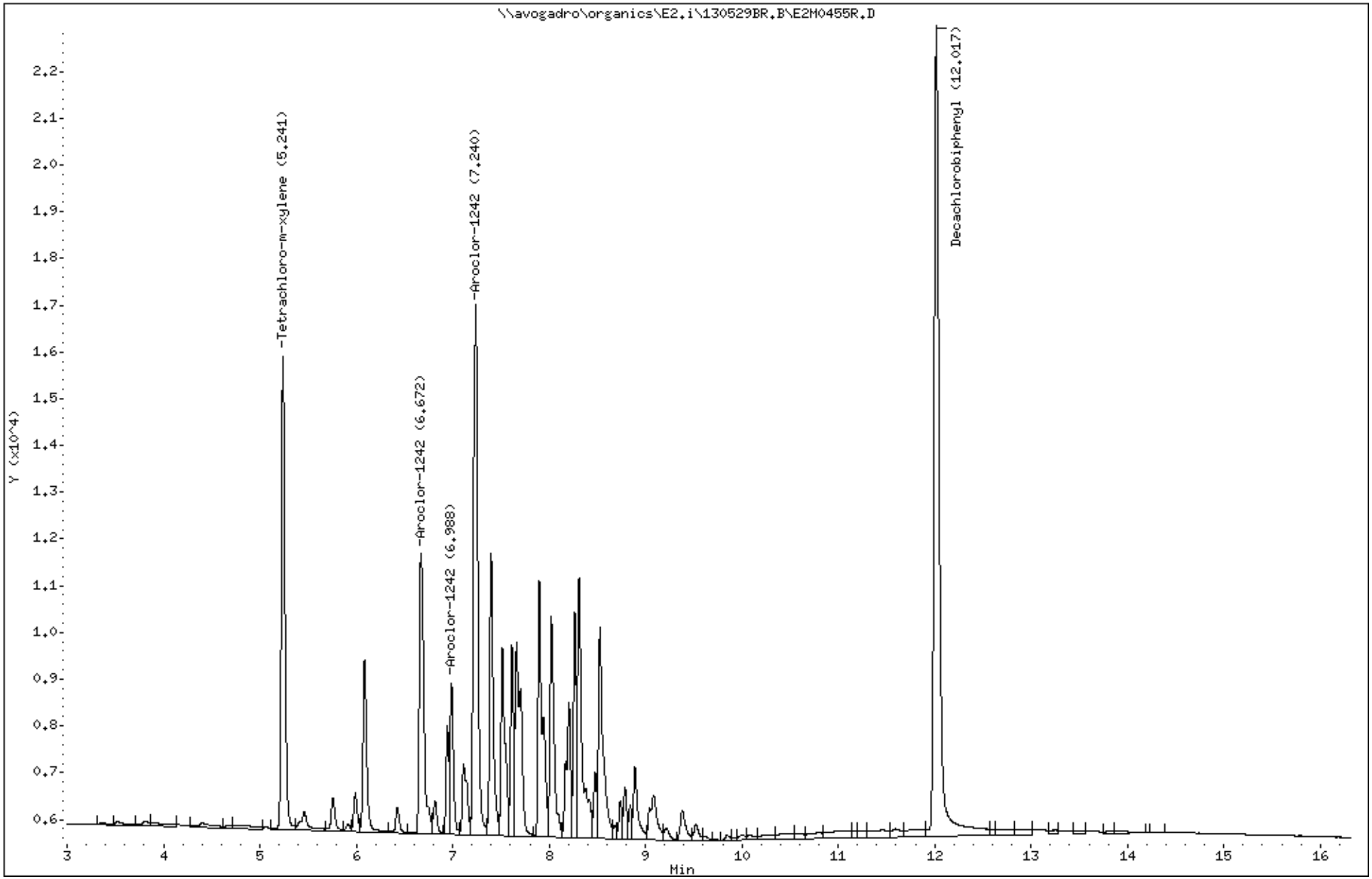
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.240	5.242	-0.002	10086	0.02000	0.020			(a)
4 Aroclor-1242						CAS #: 53469-21-9		
6.672	6.670	0.002	6003	0.40000	0.36	80.00- 120.00	100.00	(a)
6.988	6.987	0.001	3238	0.40000	0.36	36.61- 76.61	53.94	
7.239	7.238	0.001	11439	0.40000	0.37	169.97- 209.97	190.55	
Average of Peak Amounts =					0.36333			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.017	12.018	-0.001	17349	0.04000	0.037			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0455R.D
Date : 29-MAY-2013 19:00
Client ID: AR12423D2
Instrument: E2.i
Sample Info: AR12423D2,AR12423D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0456F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0456F.D
Lab Smp Id: AR12424D2 Client Smp ID: AR12424D2
Inj Date : 29-MAY-2013 19:19
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12424D2,AR12424D2,,ar1242.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 19:19 Cal File: E2M0456F.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

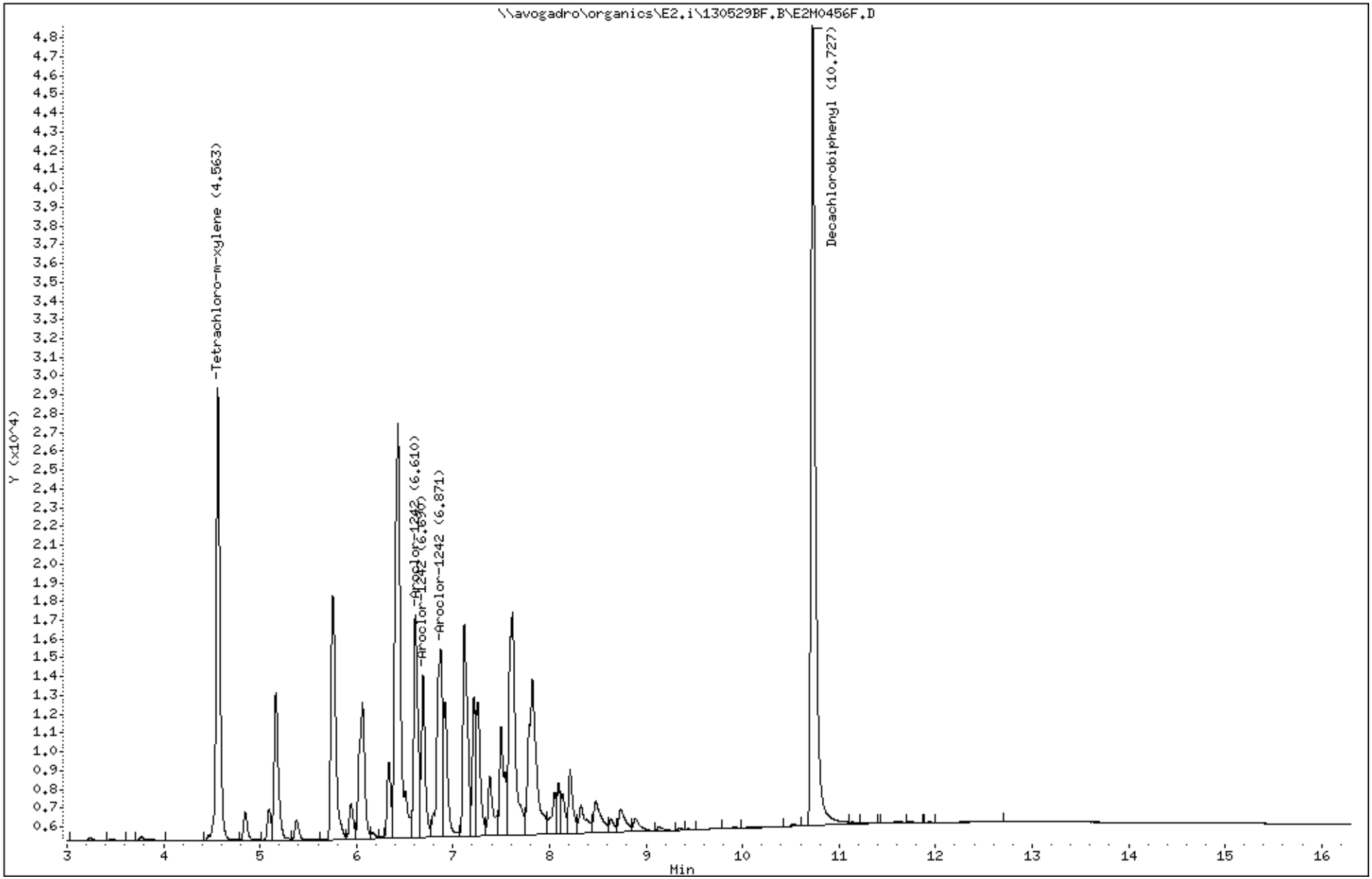
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.563	4.565	-0.002	24025	0.04000	0.040		(a)
6 Aroclor-1242					CAS #: 53469-21-9		
6.610	6.608	0.002	11819	0.80000	0.76	80.00- 120.00	100.00(a)
6.690	6.689	0.001	8604	0.80000	0.80	54.24- 94.24	72.80
6.870	6.870	0.000	10027	0.80000	0.72	61.57- 101.57	84.84
Average of Peak Amounts =					0.76000		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
10.726	10.728	-0.002	1406373	0.08000	0.058		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0456F.D
Date : 29-MAY-2013 19:19
Client ID: AR12424D2
Instrument: E2.i
Sample Info: AR12424D2,AR12424D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0456R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0456R.D
Lab Smp Id: AR12424D2 Client Smp ID: AR12424D2
Inj Date : 29-MAY-2013 19:19
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12424D2,AR12424D2,,ar1242.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 19:19 Cal File: E2M0456R.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

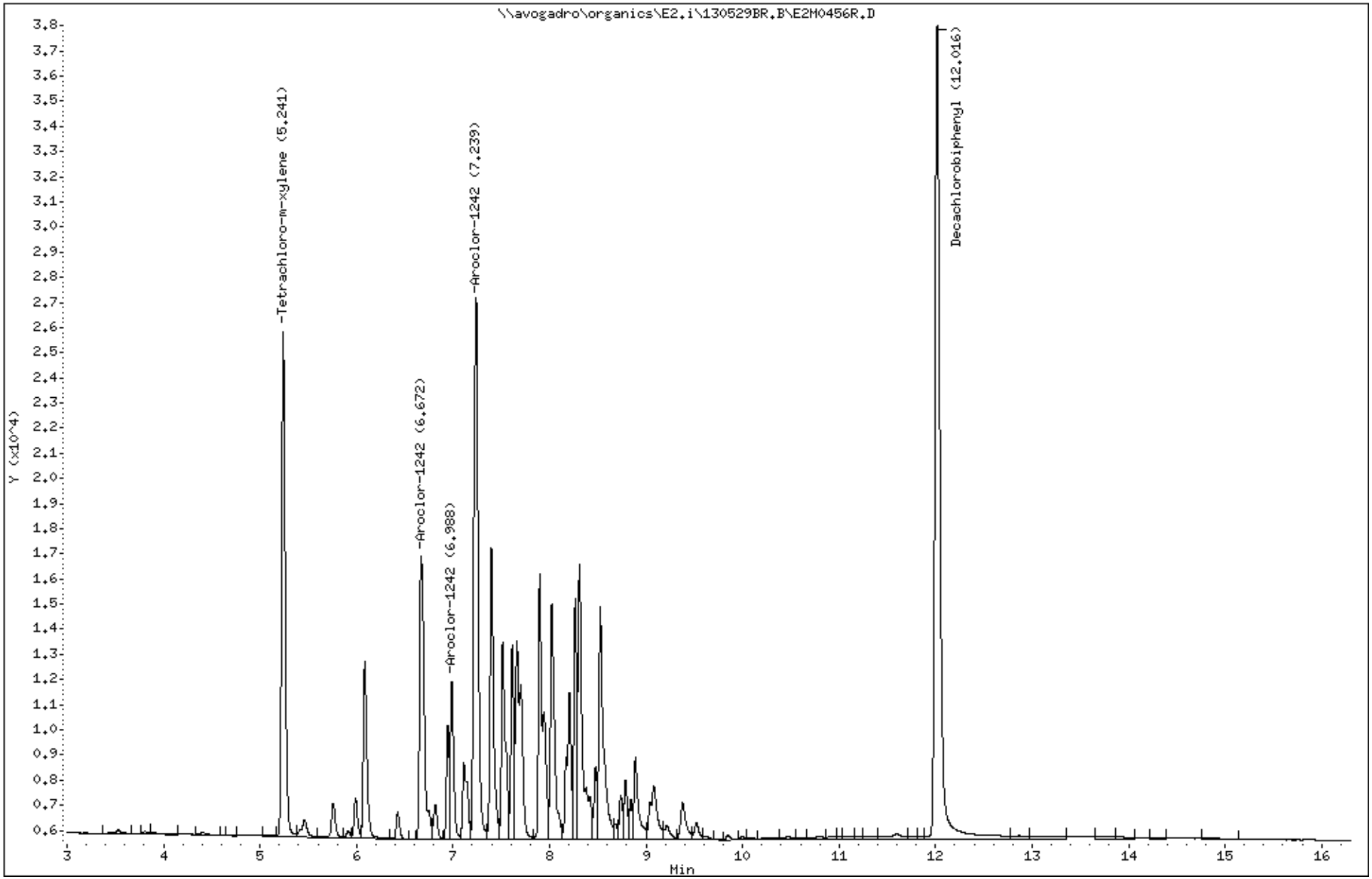
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.240	5.242	-0.002	20002	0.04000	0.040			(a)
4 Aroclor-1242						CAS #: 53469-21-9		
6.672	6.670	0.002	11283	0.80000	0.70	80.00- 120.00	100.00	(a)
6.987	6.987	0.000	6250	0.80000	0.72	36.61- 76.61	55.39	
7.239	7.238	0.001	21717	0.80000	0.72	169.97- 209.97	192.48	
Average of Peak Amounts =					0.71333			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.016	12.018	-0.002	32383	0.08000	0.072			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0456R.D
Date : 29-MAY-2013 19:19
Client ID: AR12424D2
Instrument: E2.i
Sample Info: AR12424D2,AR12424D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0457F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

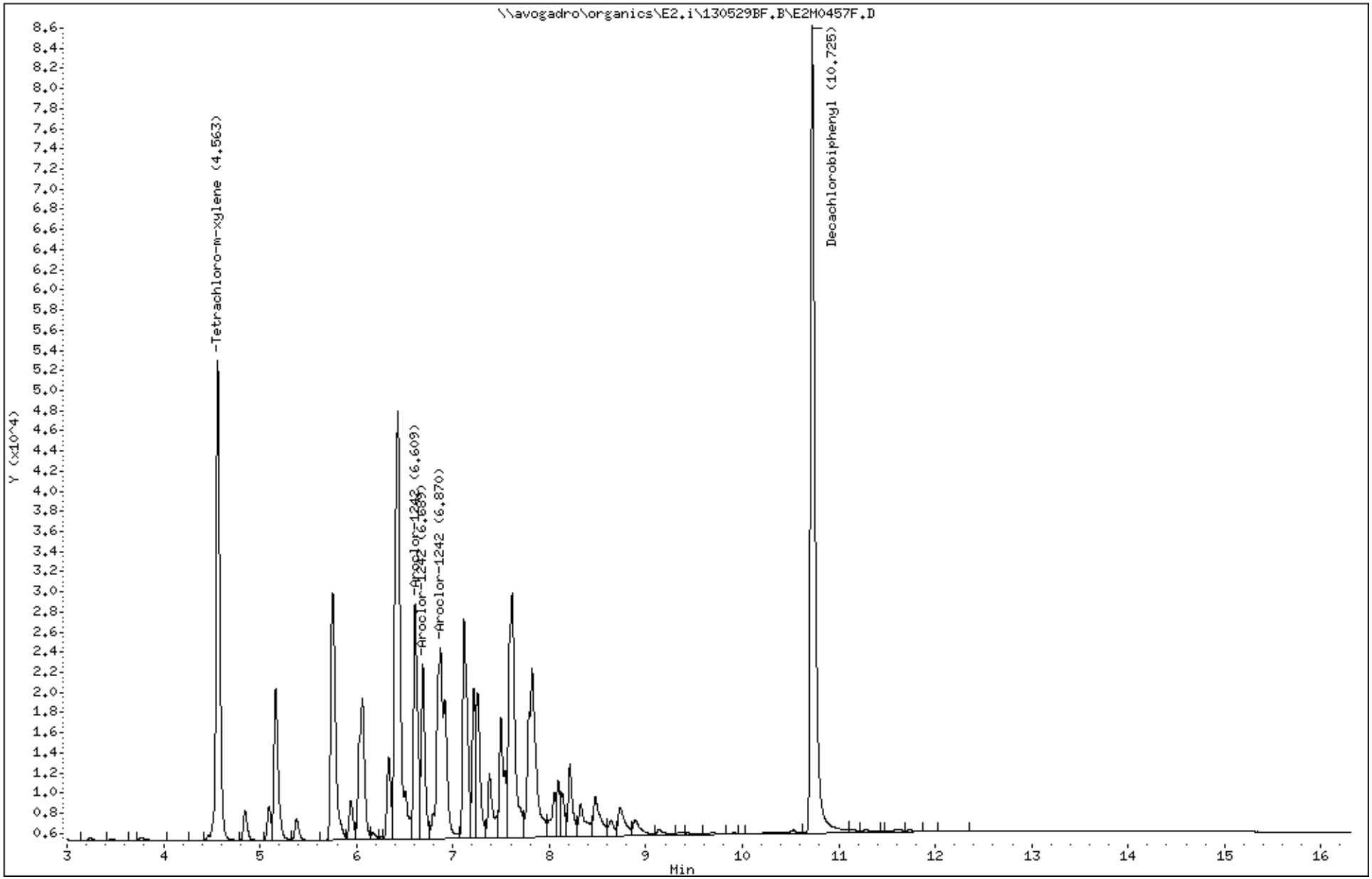
Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0457F.D
Lab Smp Id: AR12425D2 Client Smp ID: AR12425D2
Inj Date : 29-MAY-2013 19:39
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12425D2,AR12425D2,,ar1242.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 19:39 Cal File: E2M0457F.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.563	4.565	-0.002	47542	0.08000	0.080			
6 Aroclor-1242						CAS #: 53469-21-9		
6.608	6.608	0.000	23315	1.60000	1.5	80.00- 120.00		100.00
6.689	6.689	0.000	17310	1.60000	1.6	54.24- 94.24		74.24
6.870	6.870	0.000	19019	1.60000	1.4	61.57- 101.57		81.57
Average of Peak Amounts =					1.50000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.725	10.728	-0.003	2647740	0.16000	0.12			

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0457F.D
Date : 29-MAY-2013 19:39
Client ID: AR12425D2
Instrument: E2.i
Sample Info: AR12425D2,AR12425D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0457R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

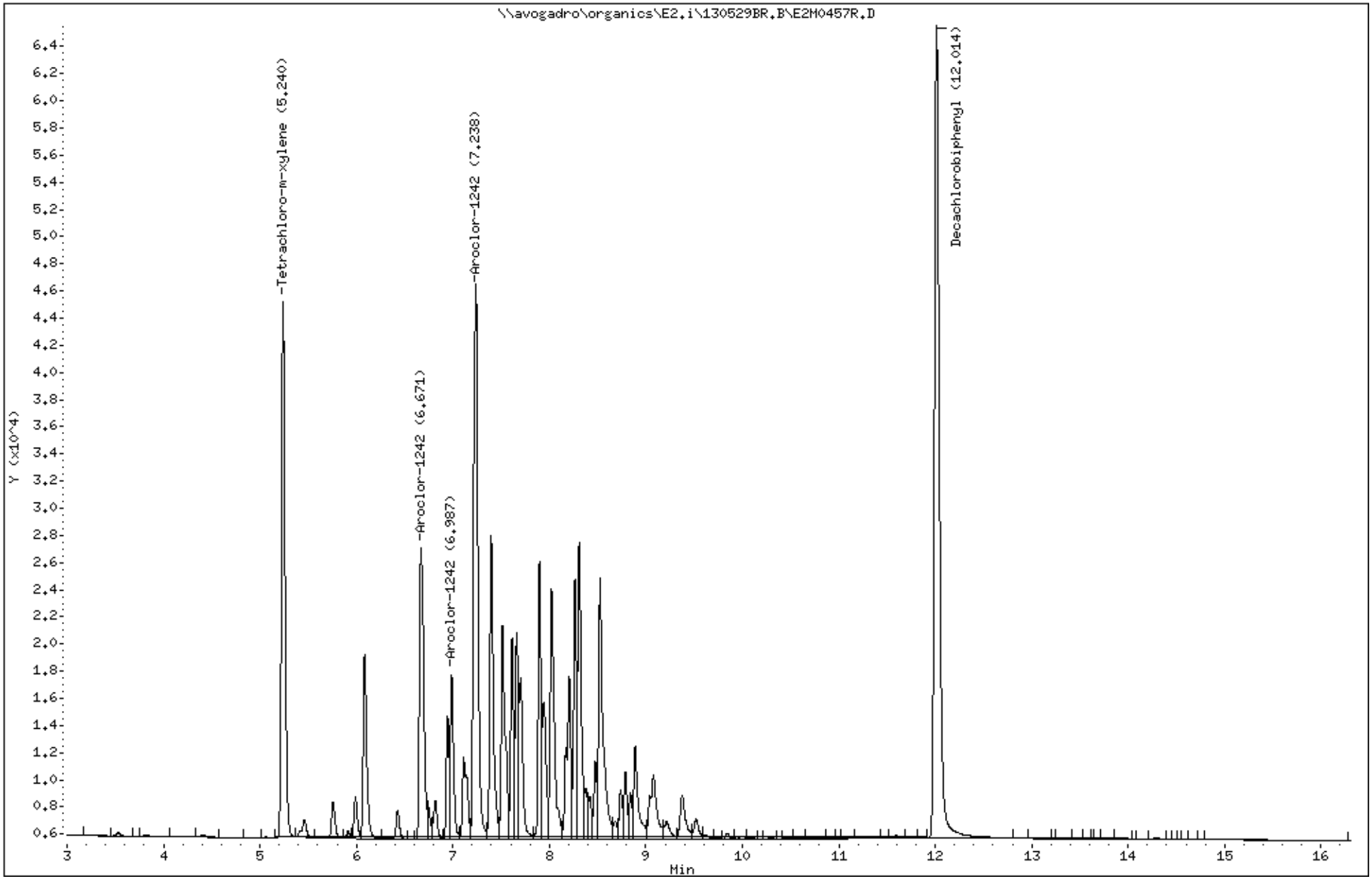
Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0457R.D
Lab Smp Id: AR12425D2 Client Smp ID: AR12425D2
Inj Date : 29-MAY-2013 19:39
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12425D2,AR12425D2,,ar1242.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 19:39 Cal File: E2M0457R.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1242.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.239	5.242	-0.003	39151	0.08000	0.078			
4 Aroclor-1242						CAS #: 53469-21-9		
6.670	6.670	0.000	21332	1.60000	1.4	80.00- 120.00		100.00
6.987	6.987	0.000	12075	1.60000	1.4	36.61- 76.61		56.61
7.238	7.238	0.000	40525	1.60000	1.4	169.97- 209.97		189.97
Average of Peak Amounts =					1.40000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.014	12.018	-0.004	59742	0.16000	0.14			

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0457R.D
Date : 29-MAY-2013 19:39
Client ID: AR12425D2
Instrument: E2.i
Sample Info: AR12425D2,AR12425D2,,ar1242.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0458F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0458F.D
Lab Smp Id: AR12481D2 Client Smp ID: AR12481D2
Inj Date : 29-MAY-2013 19:59
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12481D2,AR12481D2,,ar1248.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 19:59 Cal File: E2M0458F.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

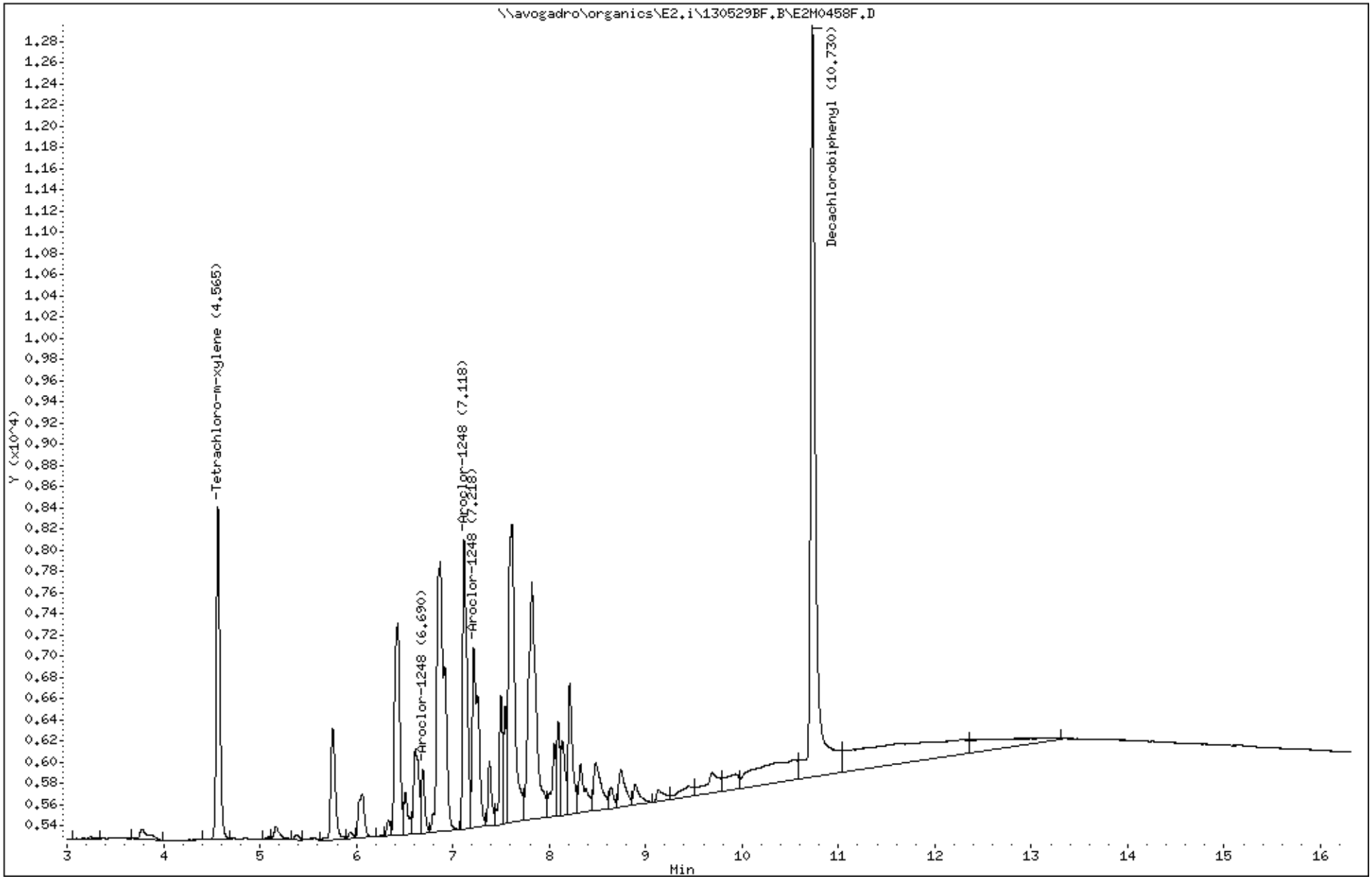
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.564	4.565	-0.001	3135	0.00500	0.0052			(a)
7 Aroclor-1248						CAS #: 12672-29-6		
6.689	6.689	0.000	604	0.10000	0.10	80.00- 120.00	100.00	(a)
7.117	7.116	0.001	2717	0.10000	0.11	354.56- 394.56	449.83	
7.218	7.217	0.001	1690	0.10000	0.10	237.83- 277.83	279.80	
Average of Peak Amounts =					0.10333			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.730	10.728	0.002	278447	0.01000	0.013			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0458F.D
Date : 29-MAY-2013 19:59
Client ID: AR12481D2
Instrument: E2.i
Sample Info: AR12481D2,AR12481D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0458R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0458R.D
Lab Smp Id: AR12481D2 Client Smp ID: AR12481D2
Inj Date : 29-MAY-2013 19:59
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12481D2,AR12481D2,,ar1248.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 19:59 Cal File: E2M0458R.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

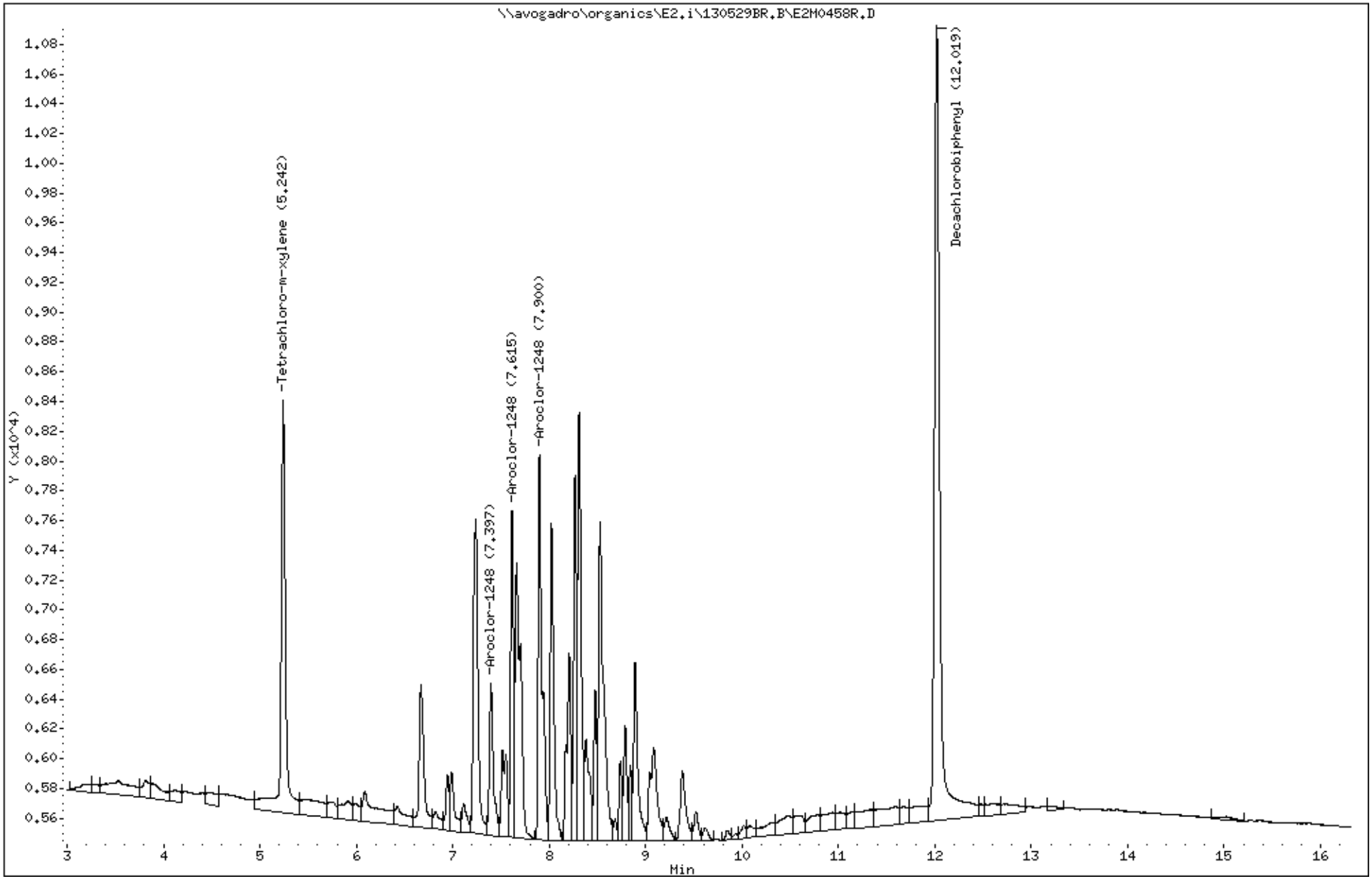
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.242	5.242	0.000	2762	0.00500	0.0054			(a)
5 Aroclor-1248						CAS #: 12672-29-6		
7.397	7.397	0.000	1021	0.10000	0.10	80.00- 120.00	100.00	(a)
7.615	7.614	0.001	2177	0.10000	0.10	177.98- 217.98	213.22	
7.899	7.898	0.001	2532	0.10000	0.10	229.99- 269.99	247.99	
Average of Peak Amounts =					0.10000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.018	12.018	0.000	5340	0.01000	0.012			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0458R.D
Date : 29-MAY-2013 19:59
Client ID: AR12481D2 Instrument: E2.i
Sample Info: AR12481D2,AR12481D2,,ar1248.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: TM
Column phase: CLPPestII Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0459F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0459F.D
Lab Smp Id: AR12486D2 Client Smp ID: AR12486D2
Inj Date : 29-MAY-2013 20:19
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12486D2,AR12486D2,,ar1248.sub,,
Misc Info : 1,6,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 20:19 Cal File: E2M0459F.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

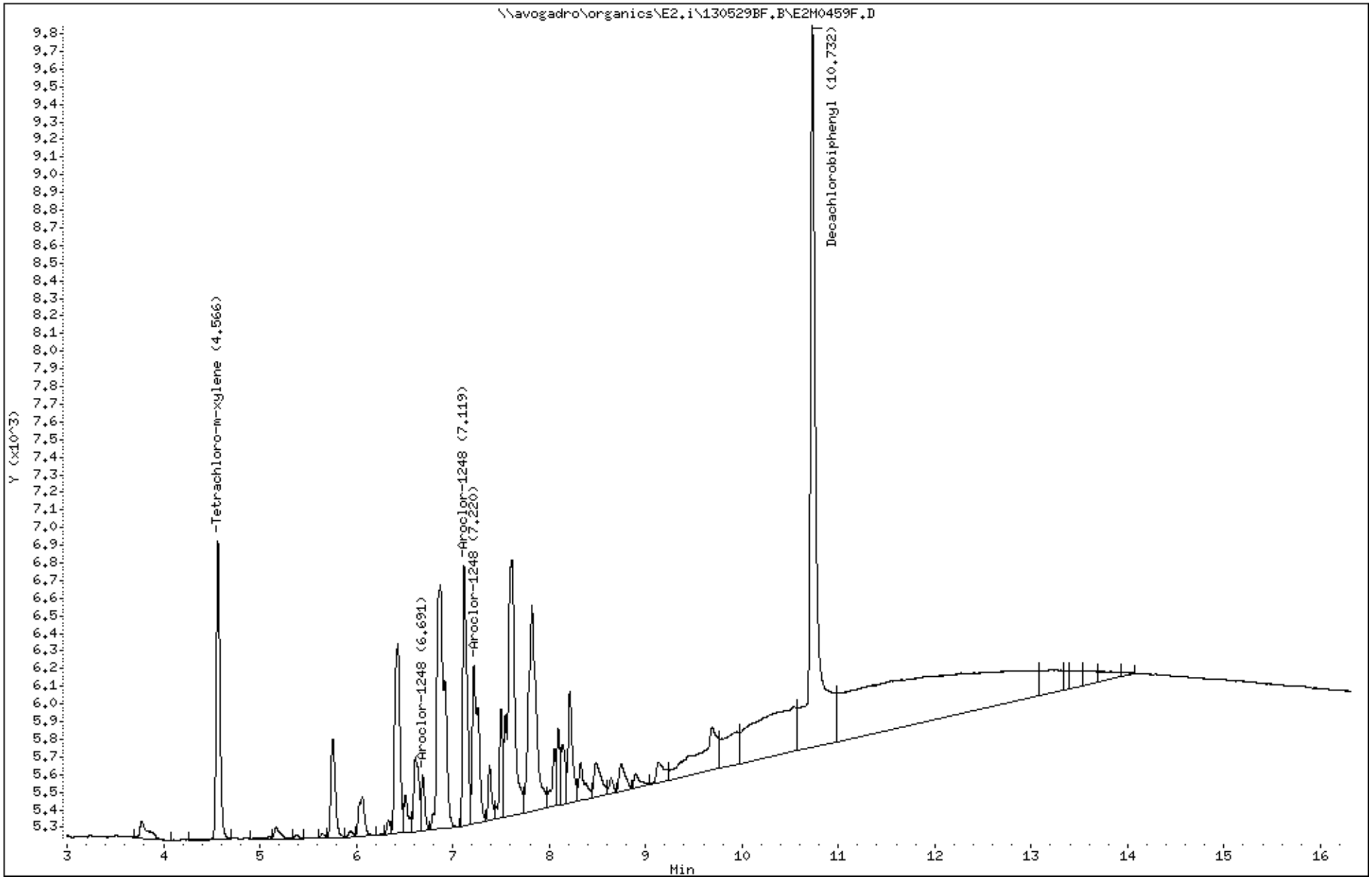
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.565	4.565	0.000	1687	0.00000	0.0028			(a)
7 Aroclor-1248					CAS #: 12672-29-6			
6.691	6.689	0.002	313	0.05000	0.052	80.00- 120.00	100.00	(a)
7.119	7.116	0.003	1461	0.05000	0.055	354.56- 394.56	466.77	
7.219	7.217	0.002	892	0.05000	0.054	237.83- 277.83	284.98	
		Average of Peak Amounts =		0.05367				
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
10.731	10.728	0.003	186229	0.00000	0.0087			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0459F.D
Date : 29-MAY-2013 20:19
Client ID: AR12486D2
Instrument: E2.i
Sample Info: AR12486D2,AR12486D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0459R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0459R.D
Lab Smp Id: AR12486D2 Client Smp ID: AR12486D2
Inj Date : 29-MAY-2013 20:19
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12486D2,AR12486D2,,ar1248.sub,,
Misc Info : 1,6,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 20:19 Cal File: E2M0459R.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

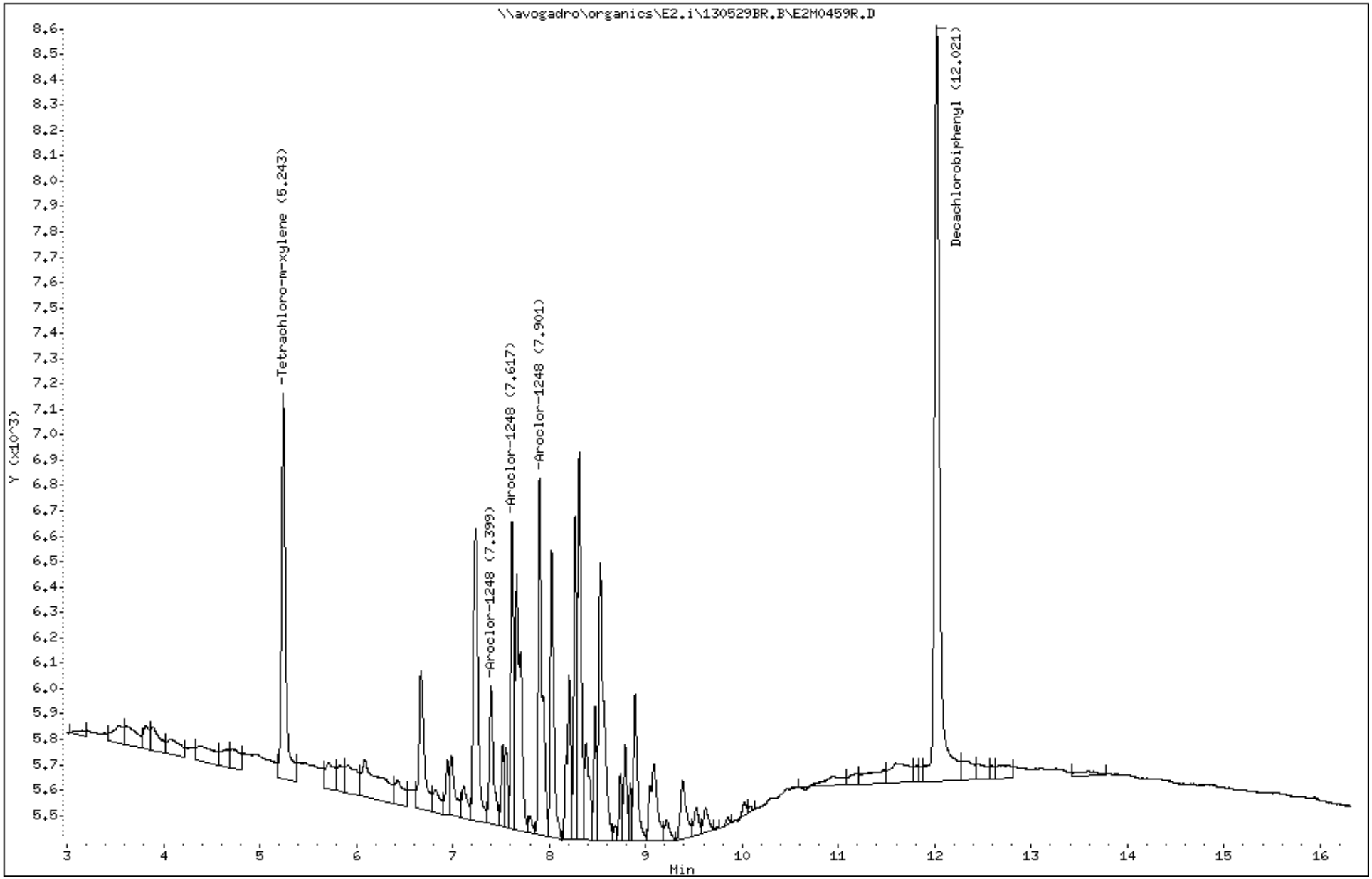
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.243	5.242	0.001	1521	0.00000	0.0030			(a)
5 Aroclor-1248						CAS #: 12672-29-6		
7.398	7.397	0.001	544	0.05000	0.052	80.00- 120.00	100.00	(a)
7.616	7.614	0.002	1210	0.05000	0.053	177.98- 217.98	222.43	
7.901	7.898	0.003	1393	0.05000	0.052	229.99- 269.99	256.07	
		Average of Peak Amounts =		0.05233				
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.020	12.018	0.002	2975	0.00000	0.0067			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0459R.D
Date : 29-MAY-2013 20:19
Client ID: AR12486D2
Instrument: E2.i
Sample Info: AR12486D2,AR12486D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0460F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0460F.D
Lab Smp Id: AR12482D2 Client Smp ID: AR12482D2
Inj Date : 29-MAY-2013 20:38
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12482D2,AR12482D2,,ar1248.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 20:38 Cal File: E2M0460F.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

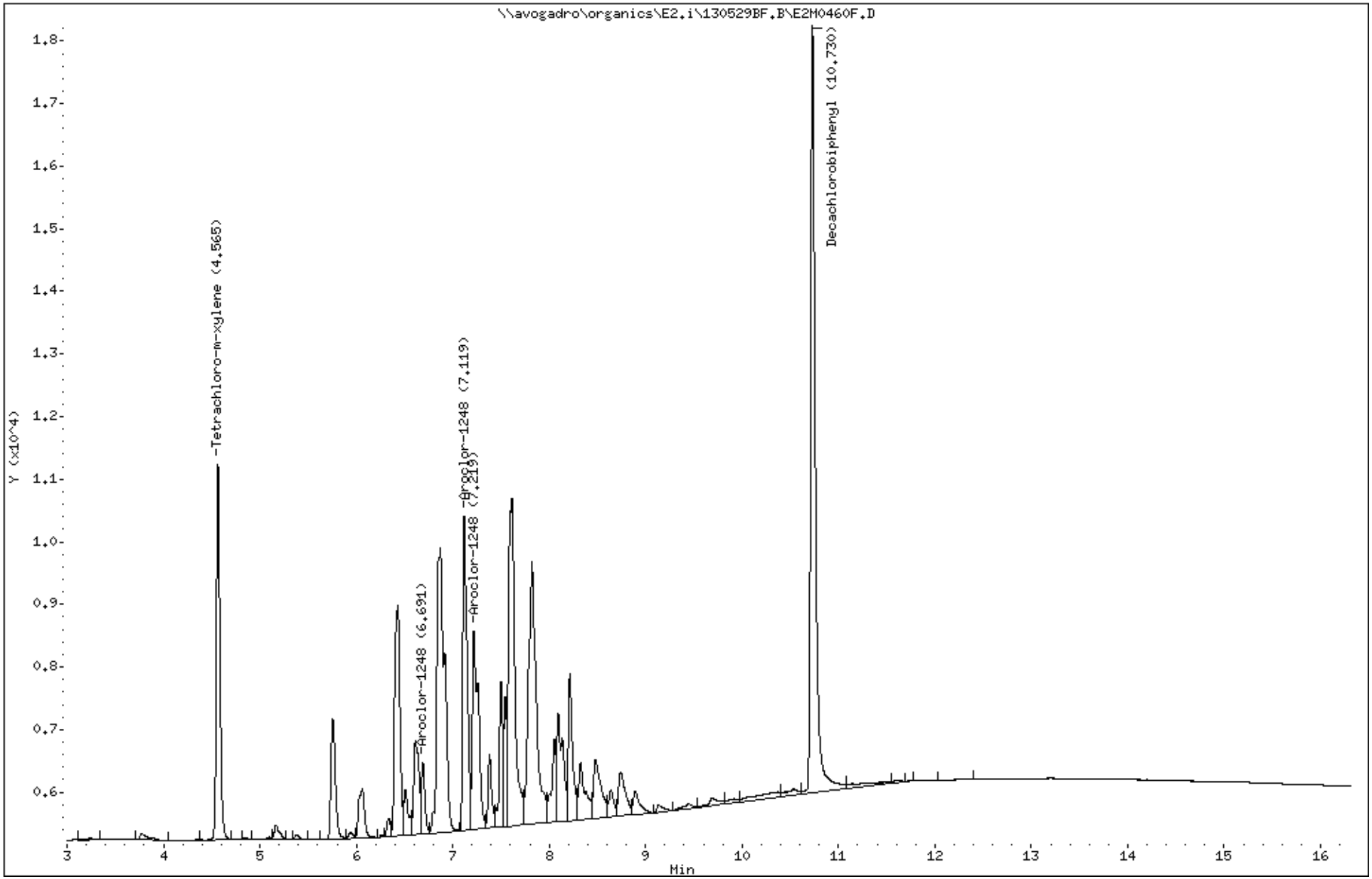
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.565	4.565	0.000	5991	0.01000	0.0099			(a)
7 Aroclor-1248						CAS #: 12672-29-6		
6.690	6.689	0.001	1139	0.20000	0.19	80.00- 120.00	100.00	(a)
7.118	7.116	0.002	4996	0.20000	0.19	354.56- 394.56	438.63	
7.218	7.217	0.001	3160	0.20000	0.19	237.83- 277.83	277.44	
Average of Peak Amounts =					0.19000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.730	10.728	0.002	420890	0.02000	0.021			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0460F.D
Date : 29-MAY-2013 20:38
Client ID: AR12482D2
Instrument: E2.i
Sample Info: AR12482D2,AR12482D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0460R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0460R.D
Lab Smp Id: AR12482D2 Client Smp ID: AR12482D2
Inj Date : 29-MAY-2013 20:38
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12482D2,AR12482D2,,ar1248.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 20:38 Cal File: E2M0460R.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

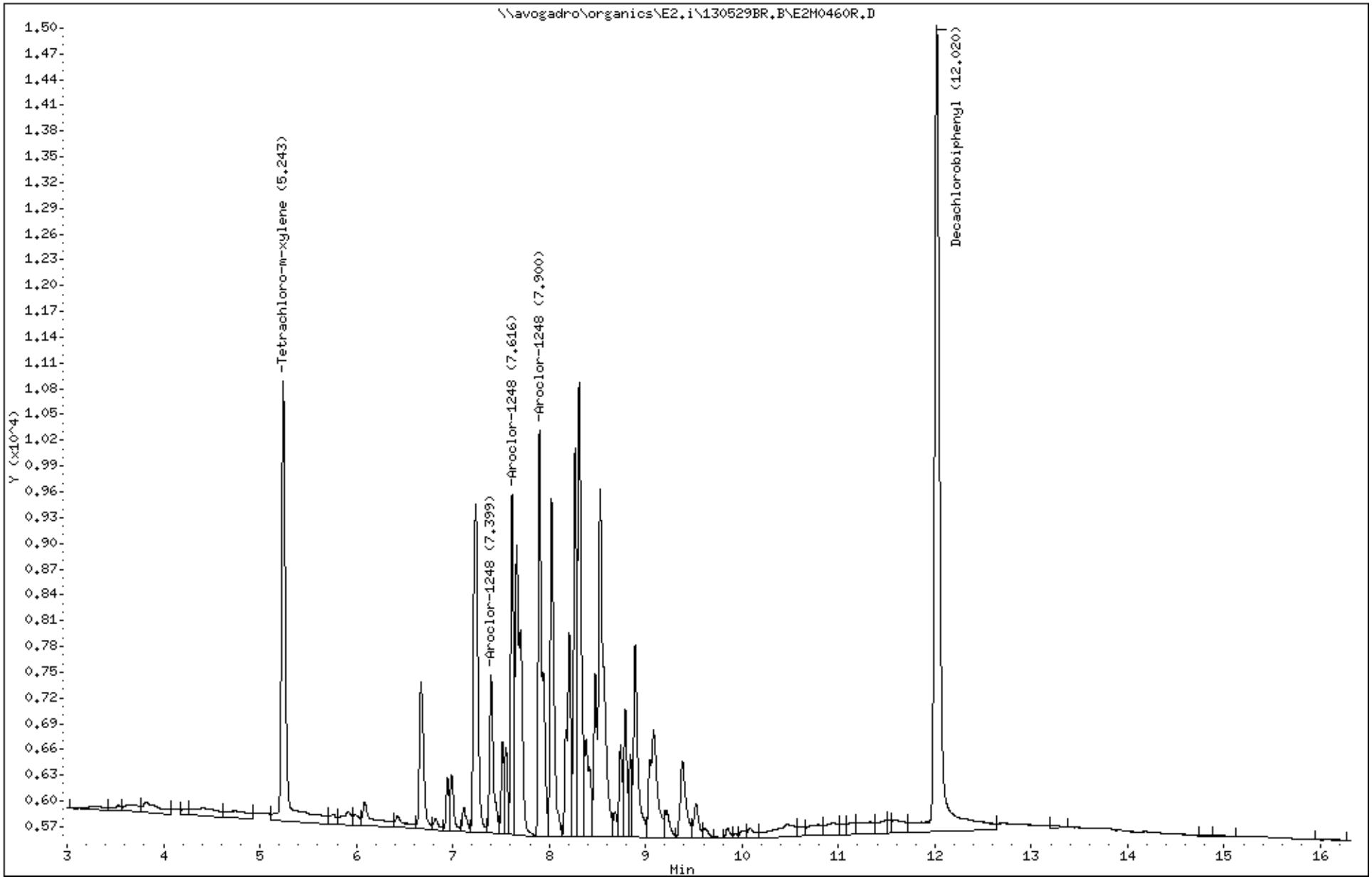
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.242	5.242	0.000	5119	0.01000	0.010			(a)
5 Aroclor-1248					CAS #: 12672-29-6			
7.398	7.397	0.001	1833	0.20000	0.18	80.00- 120.00	100.00	(a)
7.615	7.614	0.001	3928	0.20000	0.18	177.98- 217.98	214.29	
7.900	7.898	0.002	4651	0.20000	0.18	229.99- 269.99	253.74	
Average of Peak Amounts =					0.18000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
12.019	12.018	0.001	9365	0.02000	0.021			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0460R.D
Date : 29-MAY-2013 20:38
Client ID: AR12482D2
Instrument: E2.i
Sample Info: AR12482D2,AR12482D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0461F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0461F.D
Lab Smp Id: AR12483D2 Client Smp ID: AR12483D2
Inj Date : 29-MAY-2013 20:58
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12483D2,AR12483D2,,ar1248.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475F.D
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

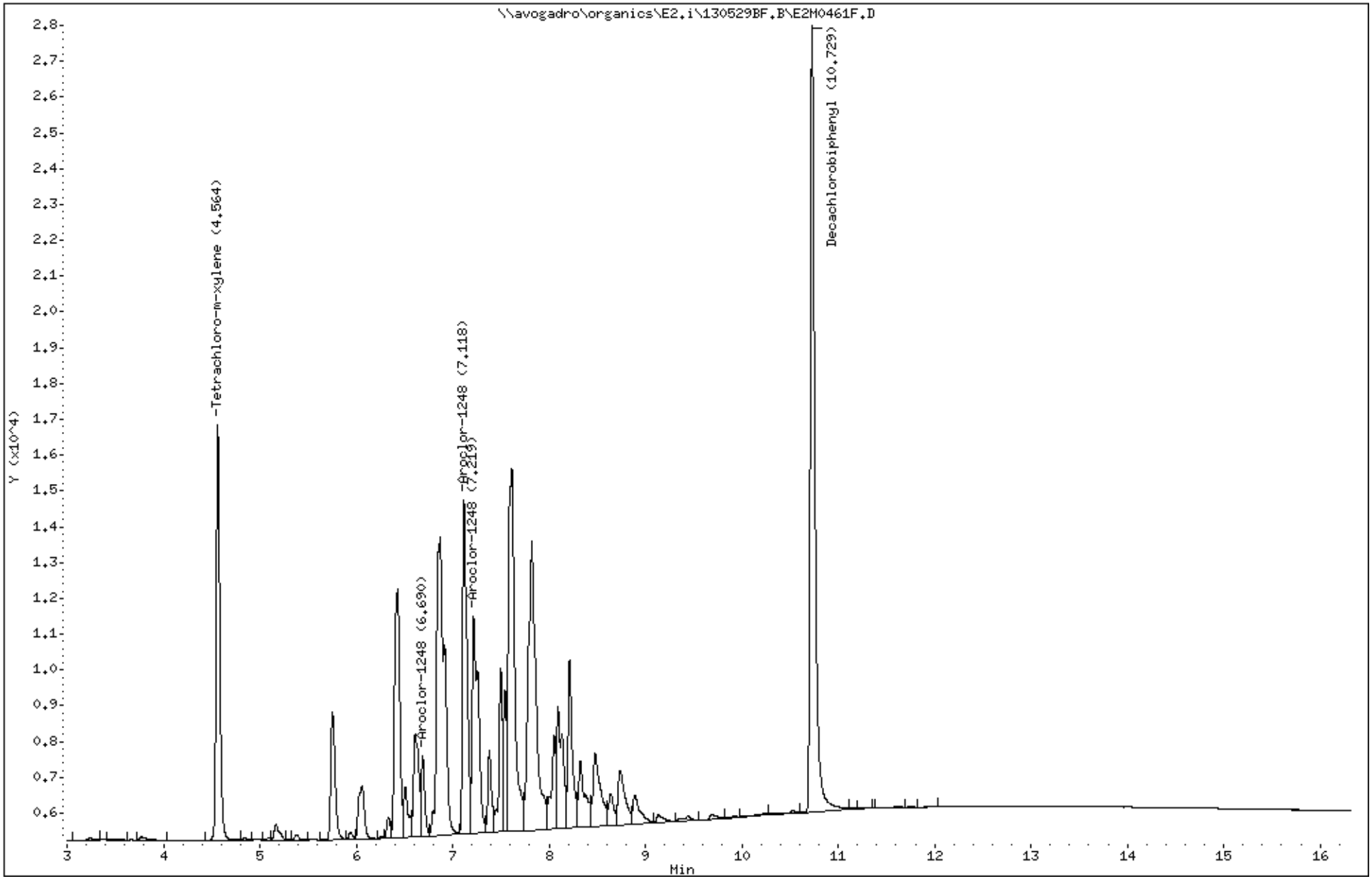
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.564	4.565	-0.001	11596	0.02000	0.019			(a)
7 Aroclor-1248						CAS #: 12672-29-6		
6.690	6.689	0.001	2227	0.40000	0.38	80.00- 120.00	100.00	(a)
7.118	7.116	0.002	9286	0.40000	0.36	354.56- 394.56	416.97	
7.218	7.217	0.001	6052	0.40000	0.37	237.83- 277.83	271.76	
		Average of Peak Amounts =			0.37000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.729	10.728	0.001	738710	0.04000	0.036			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0461F.D
Date : 29-MAY-2013 20:58
Client ID: AR12483D2
Instrument: E2.i
Sample Info: AR12483D2,AR12483D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0461R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0461R.D
Lab Smp Id: AR12483D2 Client Smp ID: AR12483D2
Inj Date : 29-MAY-2013 20:58
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12483D2,AR12483D2,,ar1248.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 20:58 Cal File: E2M0461R.D
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

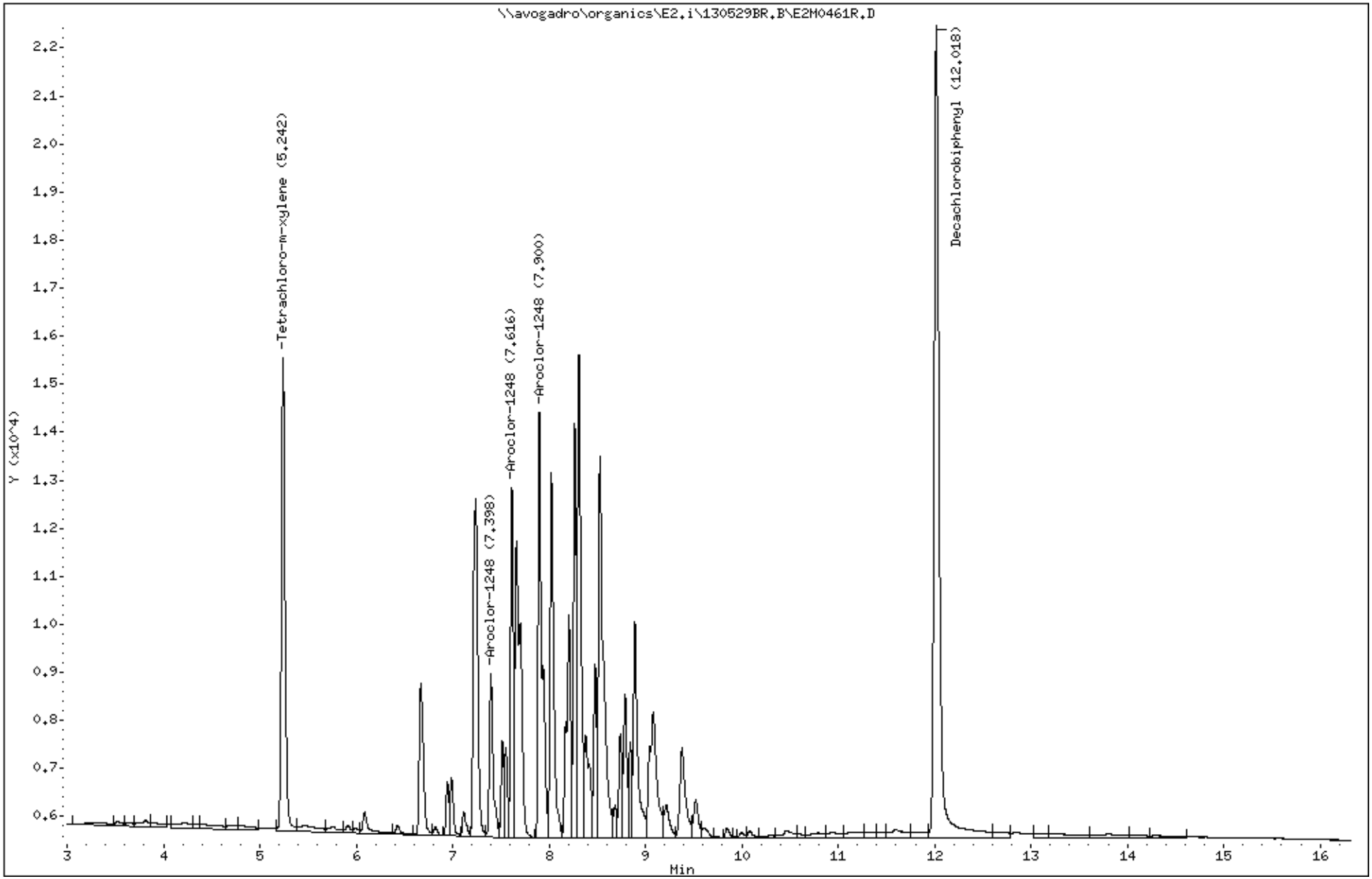
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.241	5.242	-0.001	9819	0.02000	0.019			(a)
5 Aroclor-1248						CAS #: 12672-29-6		
7.398	7.397	0.001	3407	0.40000	0.35	80.00- 120.00	100.00	(a)
7.615	7.614	0.001	7220	0.40000	0.34	177.98- 217.98	211.92	
7.900	7.898	0.002	8683	0.40000	0.35	229.99- 269.99	254.86	
		Average of Peak Amounts =			0.34667			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.018	12.018	0.000	16915	0.04000	0.038			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0461R.D
Date : 29-MAY-2013 20:58
Client ID: AR12483D2
Instrument: E2.i
Sample Info: AR12483D2,AR12483D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0462F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0462F.D
Lab Smp Id: AR12484D2 Client Smp ID: AR12484D2
Inj Date : 29-MAY-2013 21:18
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12484D2,AR12484D2,,ar1248.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 21:18 Cal File: E2M0462F.D
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

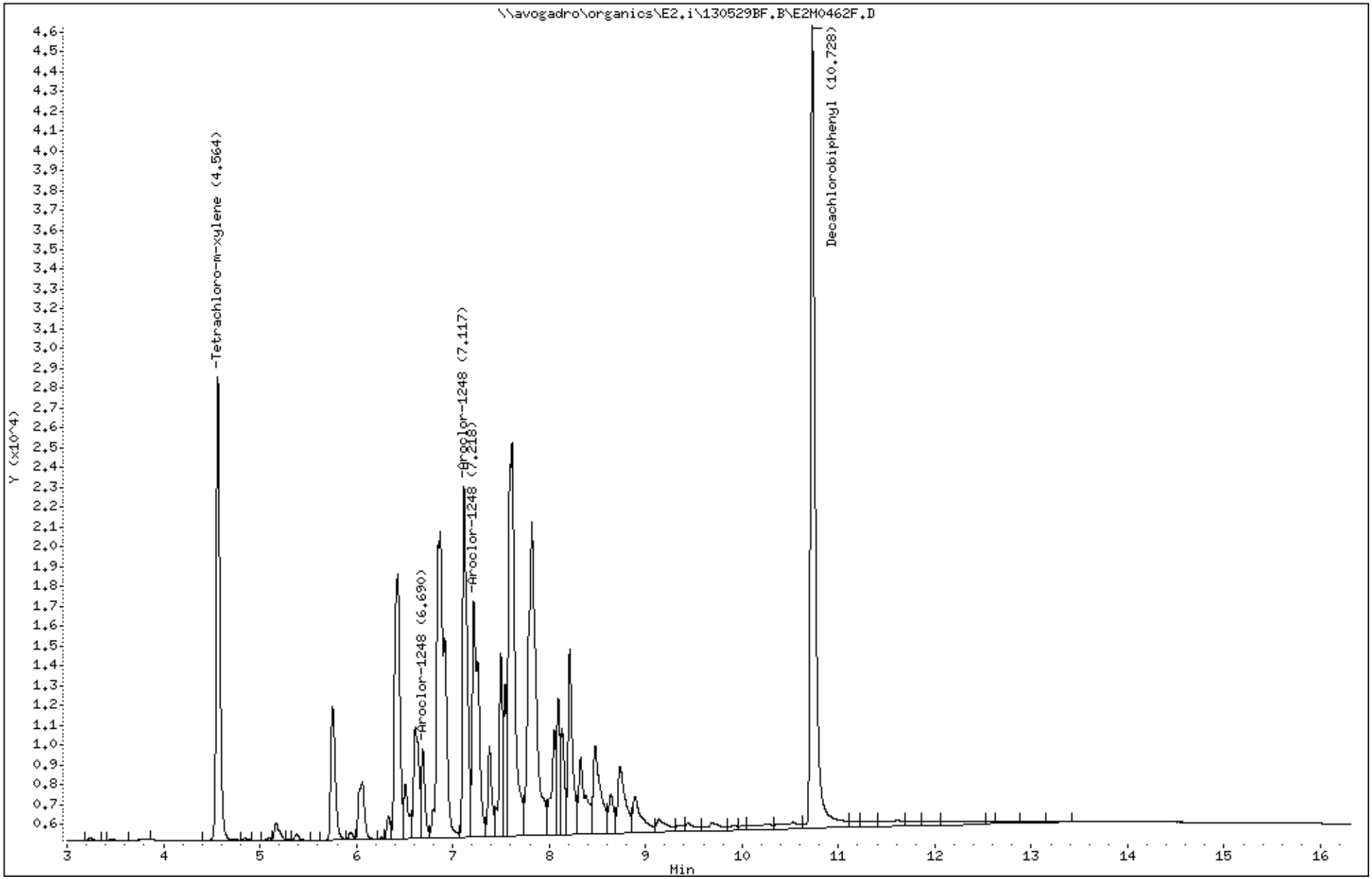
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.563	4.565	-0.002	23350	0.04000	0.039			(a)
7 Aroclor-1248						CAS #: 12672-29-6		
6.690	6.689	0.001	4475	0.80000	0.77	80.00- 120.00	100.00	(a)
7.117	7.116	0.001	17590	0.80000	0.69	354.56- 394.56	393.07	
7.218	7.217	0.001	11848	0.80000	0.74	237.83- 277.83	264.76	
Average of Peak Amounts =					0.73333			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.728	10.728	0.000	1409115	0.08000	0.069			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0462F.D
Date : 29-MAY-2013 21:18
Client ID: AR12484D2
Instrument: E2.i
Sample Info: AR12484D2,AR12484D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0462R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0462R.D
Lab Smp Id: AR12484D2 Client Smp ID: AR12484D2
Inj Date : 29-MAY-2013 21:18
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12484D2,AR12484D2,,ar1248.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 21:18 Cal File: E2M0462R.D
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

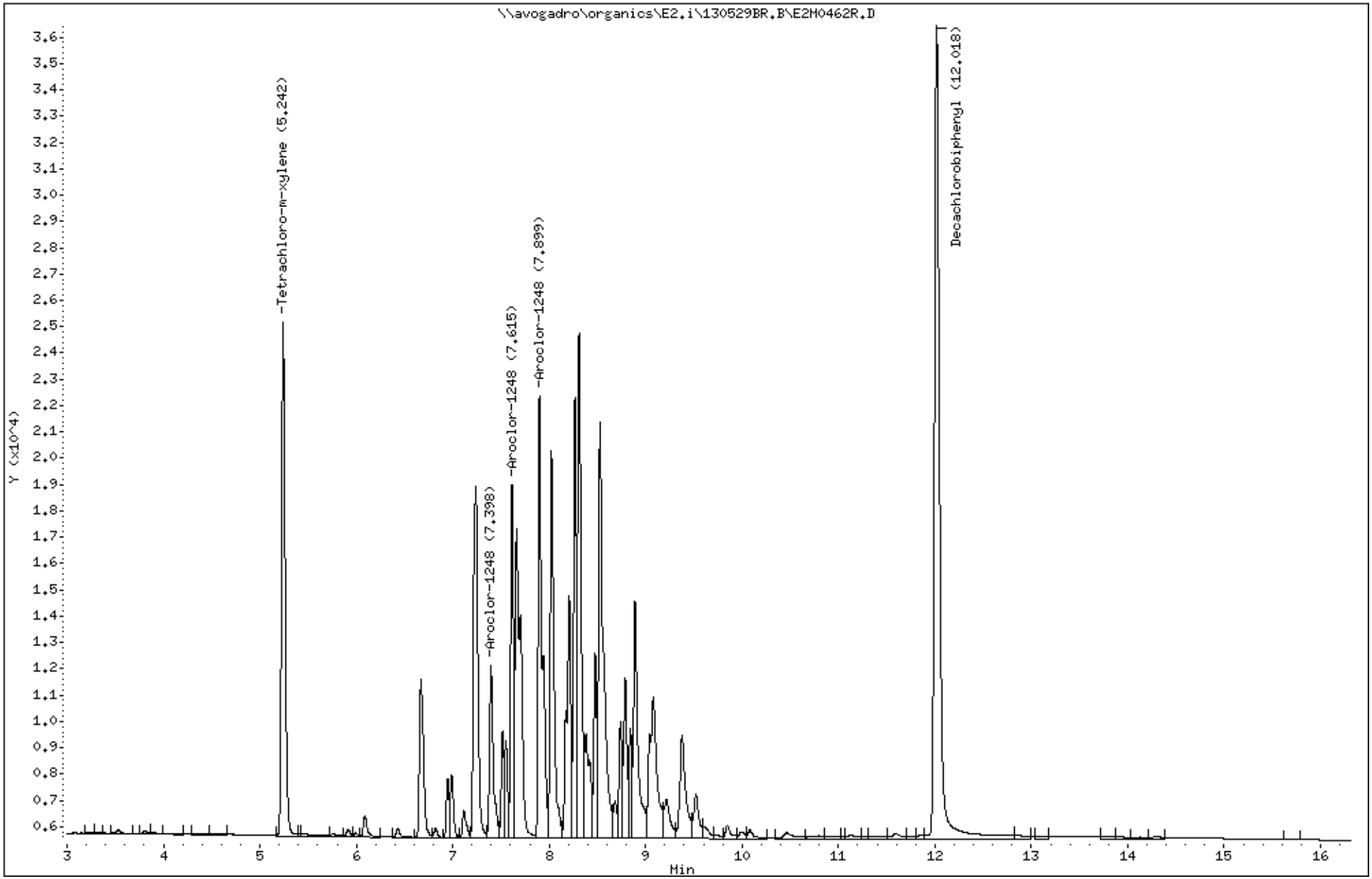
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.241	5.242	-0.001	19444	0.04000	0.038			(a)
5 Aroclor-1248						CAS #: 12672-29-6		
7.397	7.397	0.000	6555	0.80000	0.70	80.00- 120.00	100.00	(a)
7.615	7.614	0.001	13325	0.80000	0.66	177.98- 217.98	203.28	
7.899	7.898	0.001	16355	0.80000	0.69	229.99- 269.99	249.50	
		Average of Peak Amounts =			0.68333			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.018	12.018	0.000	30938	0.08000	0.071			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0462R.D
Date : 29-MAY-2013 21:18
Client ID: AR12484D2
Instrument: E2.i
Sample Info: AR12484D2,AR12484D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0463F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

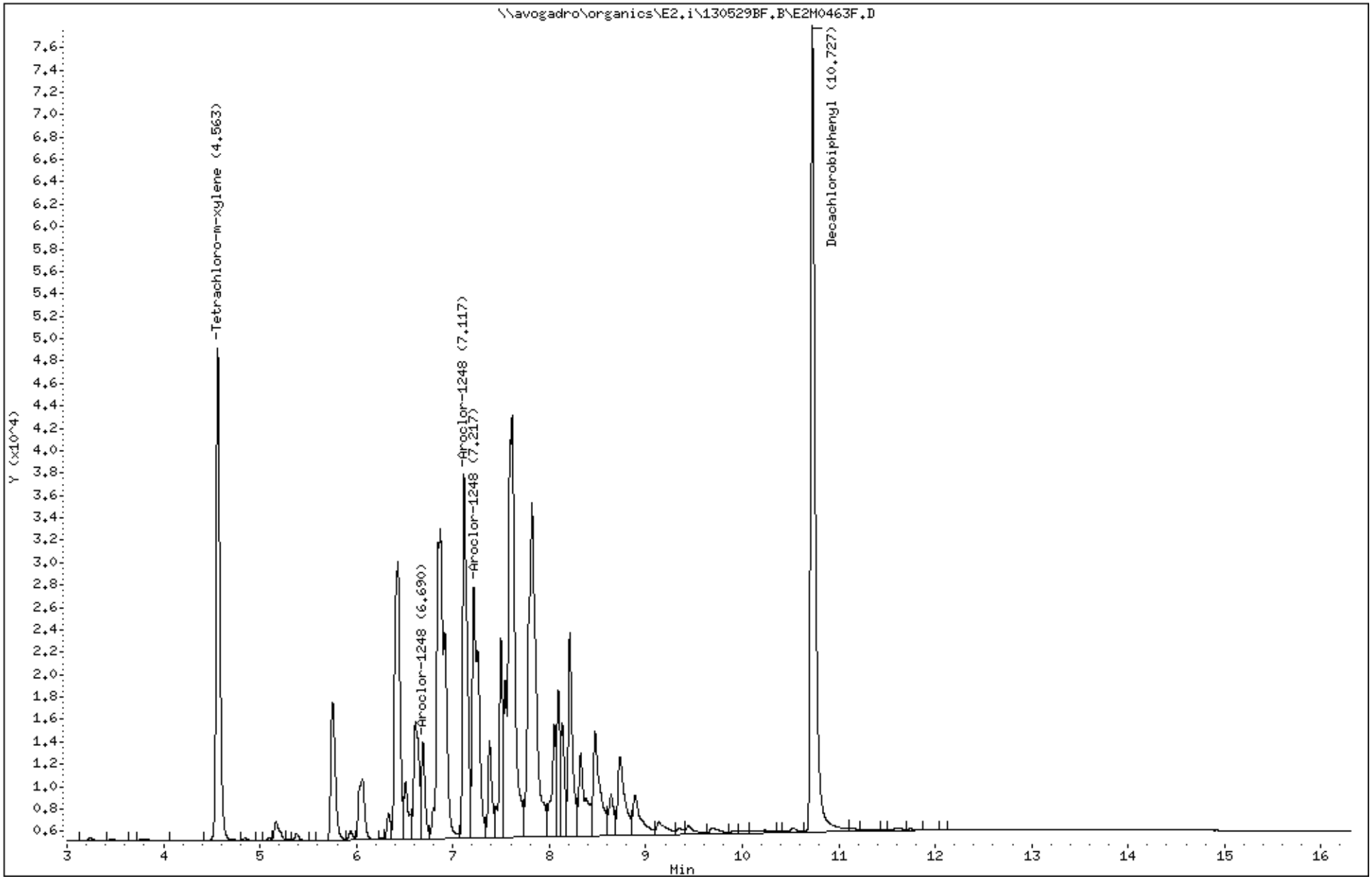
Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0463F.D
Lab Smp Id: AR12485D2 Client Smp ID: AR12485D2
Inj Date : 29-MAY-2013 21:38
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12485D2,AR12485D2,,ar1248.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 21:38 Cal File: E2M0463F.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.563	4.565	-0.002	43921	0.08000	0.075			
7 Aroclor-1248						CAS #: 12672-29-6		
6.689	6.689	0.000	8596	1.60000	1.5	80.00- 120.00		100.00
7.116	7.116	0.000	32197	1.60000	1.3	354.56- 394.56		374.56
7.217	7.217	0.000	22163	1.60000	1.4	237.83- 277.83		257.83
Average of Peak Amounts =					1.40000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.727	10.728	-0.001	2403043	0.16000	0.12			

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0463F.D
Date : 29-MAY-2013 21:38
Client ID: AR12485D2
Instrument: E2.i
Sample Info: AR12485D2,AR12485D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0463R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

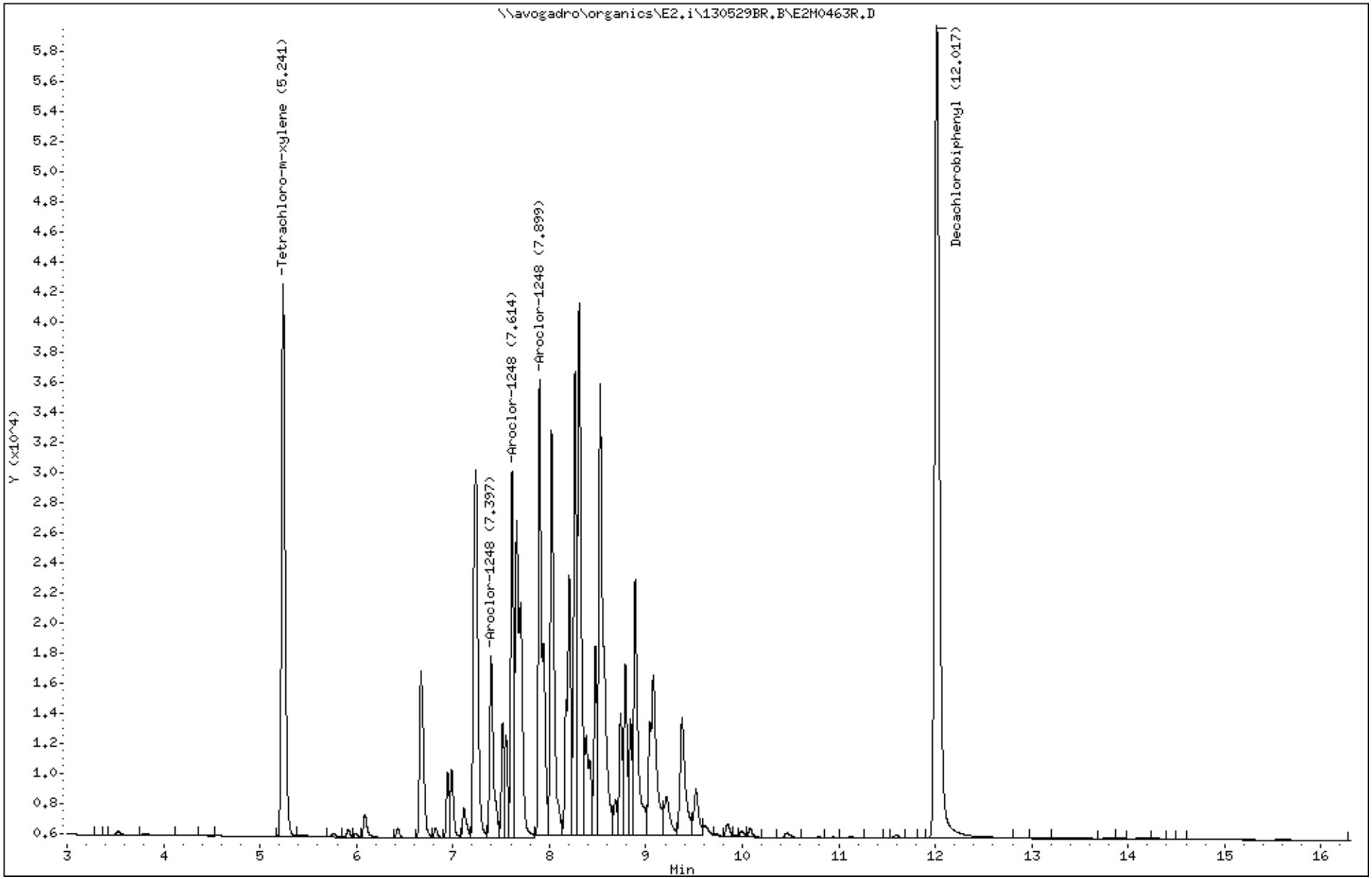
Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0463R.D
Lab Smp Id: AR12485D2 Client Smp ID: AR12485D2
Inj Date : 29-MAY-2013 21:38
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12485D2,AR12485D2,,ar1248.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 21:38 Cal File: E2M0463R.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1248.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.240	5.242	-0.002	36589	0.08000	0.073			
5 Aroclor-1248						CAS #: 12672-29-6		
7.397	7.397	0.000	12100	1.60000	1.3	80.00- 120.00		100.00
7.614	7.614	0.000	23955	1.60000	1.2	177.98- 217.98		197.98
7.898	7.898	0.000	30249	1.60000	1.3	229.99- 269.99		249.99
Average of Peak Amounts =					1.26667			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.016	12.018	-0.002	54044	0.16000	0.12			

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0463R.D
Date : 29-MAY-2013 21:38
Client ID: AR12485D2
Instrument: E2.i
Sample Info: AR12485D2,AR12485D2,,ar1248.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0464F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0464F.D
Lab Smp Id: AR12541D2 Client Smp ID: AR12541D2
Inj Date : 29-MAY-2013 21:58
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12541D2,AR12541D2,,ar1254.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 21:58 Cal File: E2M0464F.D
Als bottle: 19 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

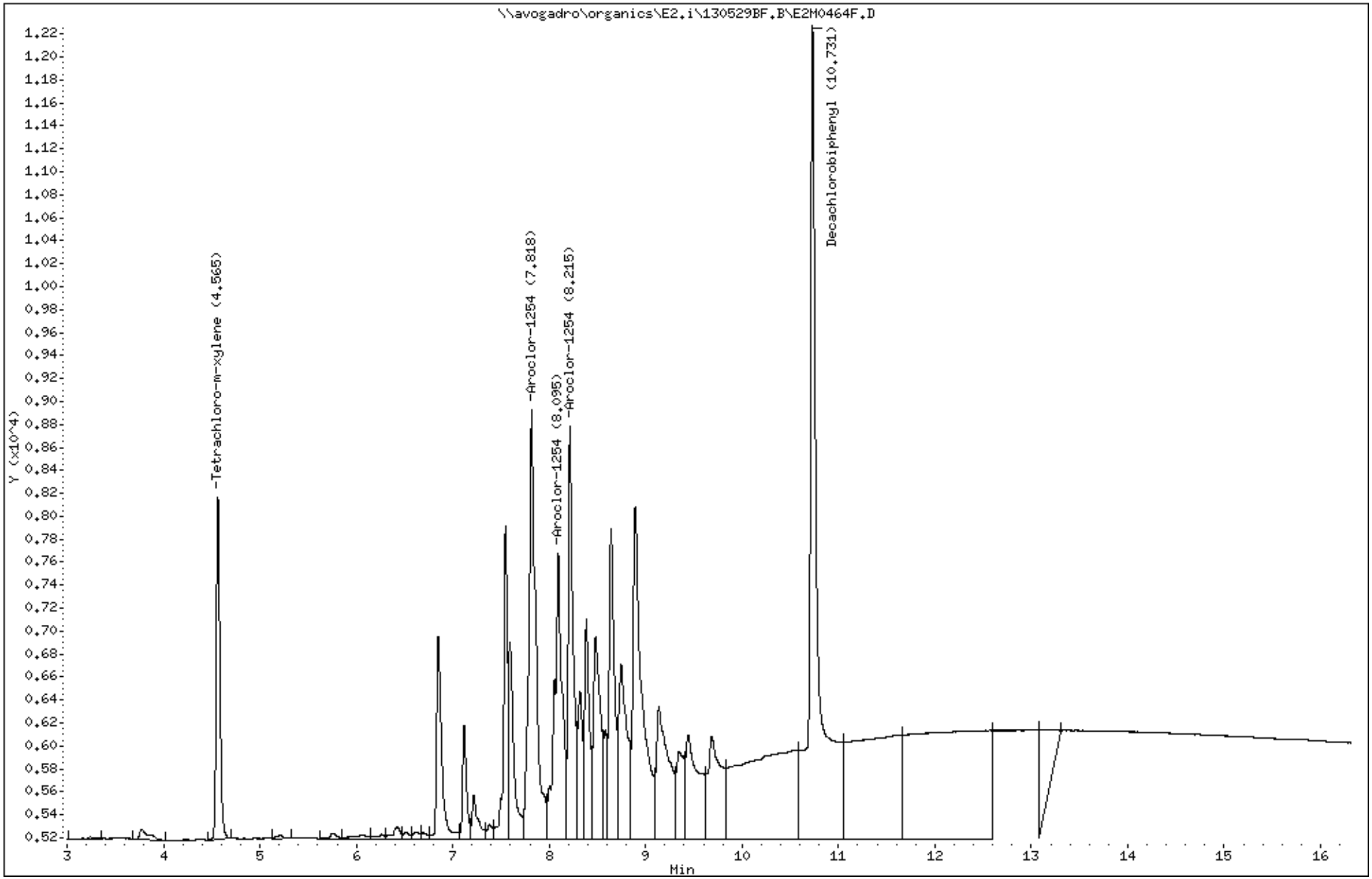
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.564	4.565	-0.001	2978	0.00500	0.0051		(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
10.730	10.728	0.002	437128	0.01000	0.019		(a)
8 Aroclor-1254					CAS #: 11097-69-1		
7.817	7.816	0.001	3746	0.10000	0.10	80.00- 120.00	100.00(a)
8.094	8.094	0.000	2494	0.10000	0.10	55.28- 95.28	66.58
8.214	8.212	0.002	3599	0.10000	0.10	93.68- 133.68	96.08
Average of Peak Amounts =				0.10000			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0464F.D
Date : 29-MAY-2013 21:58
Client ID: AR12541D2
Instrument: E2.i
Sample Info: AR12541D2,AR12541D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0464R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0464R.D
Lab Smp Id: AR12541D2 Client Smp ID: AR12541D2
Inj Date : 29-MAY-2013 21:58
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12541D2,AR12541D2,,ar1254.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 21:58 Cal File: E2M0464R.D
Als bottle: 19 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

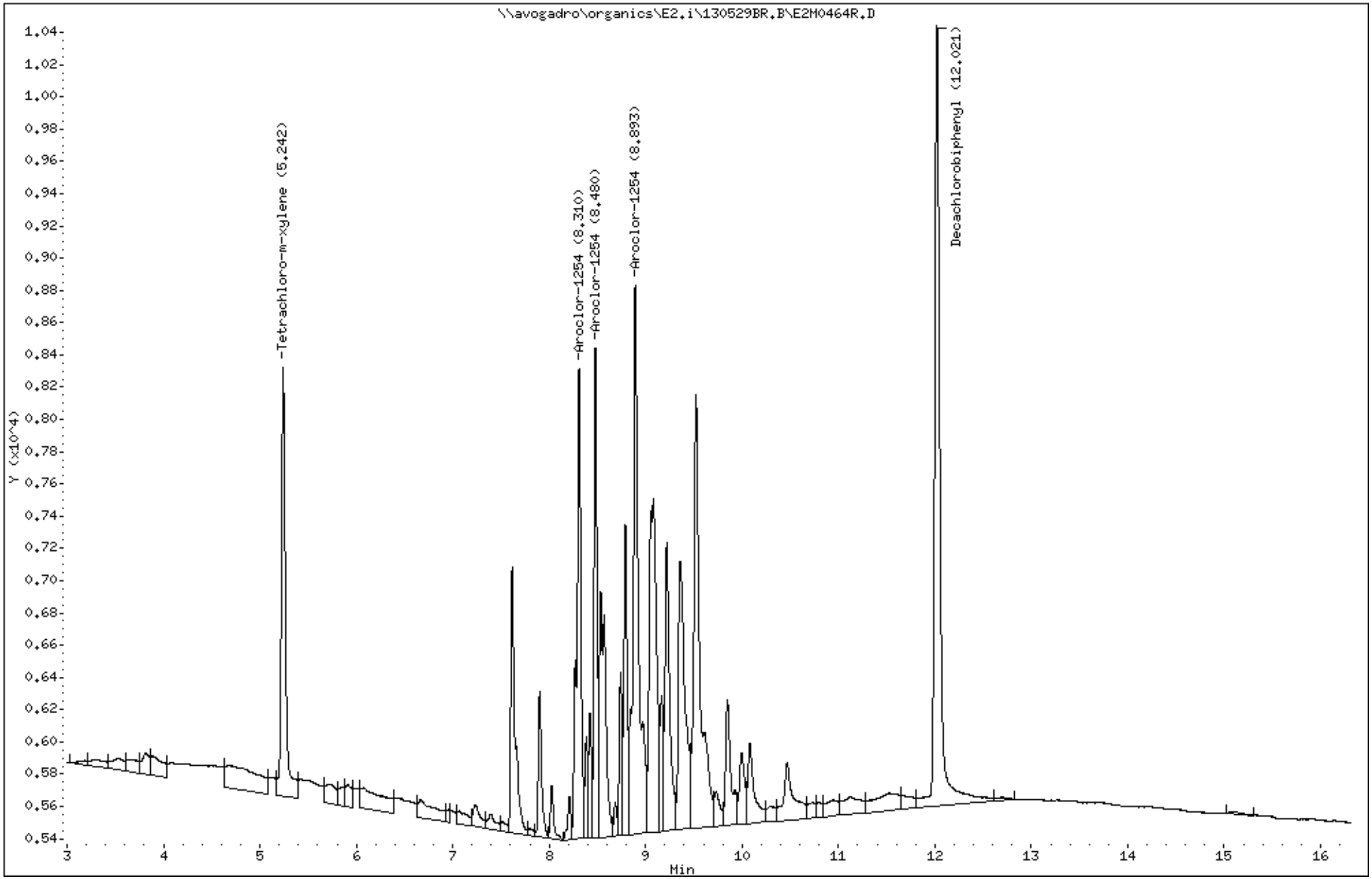
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.242	5.242	0.000	2651	0.00500	0.0054			(a)
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.021	12.018	0.003	4839	0.01000	0.012			(a)
7 Aroclor-1254						CAS #: 11097-69-1		
8.310	8.308	0.002	2910	0.10000	0.10	80.00- 120.00	100.00	(a)
8.480	8.478	0.002	2982	0.10000	0.10	91.84- 131.84	102.47	
8.893	8.890	0.003	3338	0.10000	0.10	128.05- 168.05	114.71	
Average of Peak Amounts =					0.10000			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0464R.D
Date : 29-MAY-2013 21:58
Client ID: AR12541D2
Instrument: E2.i
Sample Info: AR12541D2,AR12541D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0465F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0465F.D
Lab Smp Id: AR12546D2 Client Smp ID: AR12546D2
Inj Date : 29-MAY-2013 22:17
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12546D2,AR12546D2,,ar1254.sub,,
Misc Info : 1,6,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 22:17 Cal File: E2M0465F.D
Als bottle: 20 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

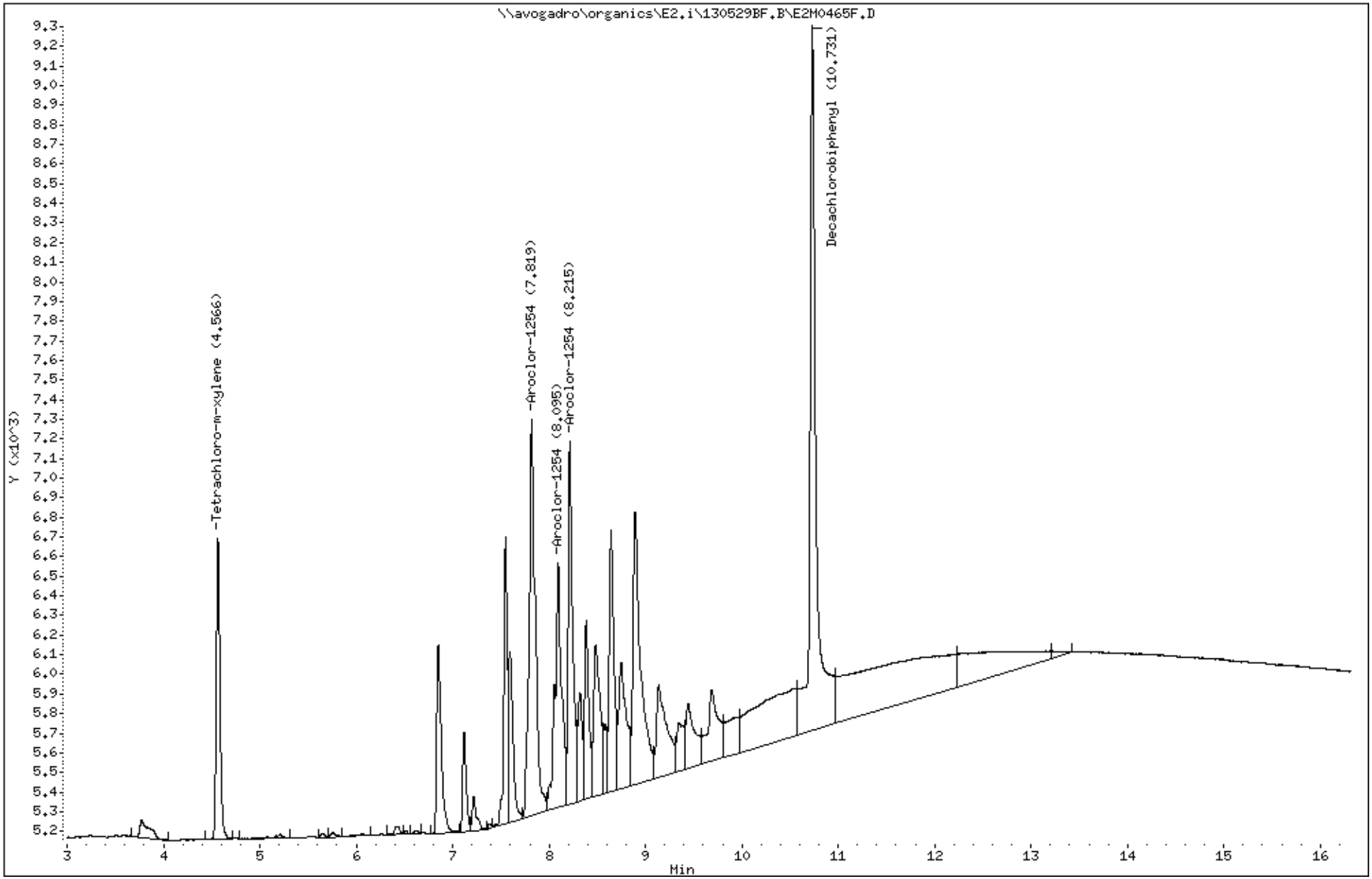
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.566	4.565	0.001	1529	0.00000	0.0026			(a)
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.731	10.728	0.003	166401	0.00000	0.0072			(a)
8 Aroclor-1254						CAS #: 11097-69-1		
7.818	7.816	0.002	2017	0.05000	0.054	80.00- 120.00	100.00	(a)
8.095	8.094	0.001	1243	0.05000	0.051	55.28- 95.28	61.63	
8.215	8.212	0.003	1844	0.05000	0.051	93.68- 133.68	91.42	
Average of Peak Amounts =					0.05200			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0465F.D
Date : 29-MAY-2013 22:17
Client ID: AR12546D2
Instrument: E2.i
Sample Info: AR12546D2,AR12546D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0465R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0465R.D
Lab Smp Id: AR12546D2 Client Smp ID: AR12546D2
Inj Date : 29-MAY-2013 22:17
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12546D2,AR12546D2,,ar1254.sub,,
Misc Info : 1,6,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 22:17 Cal File: E2M0465R.D
Als bottle: 20 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

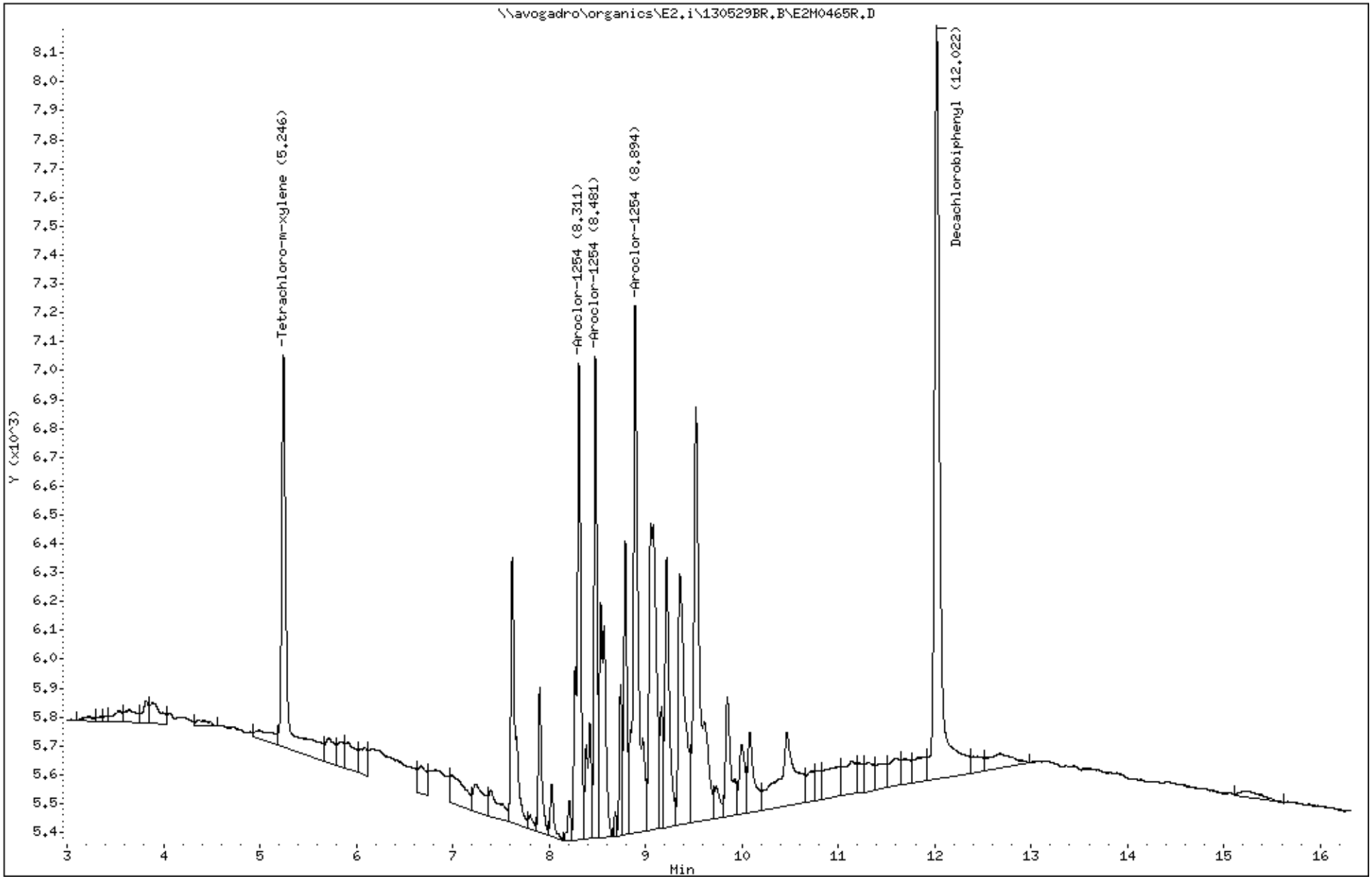
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
5.245	5.242	0.003	1353	0.00000	0.0027		(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
12.021	12.018	0.003	2607	0.00000	0.0062		(a)
7 Aroclor-1254					CAS #: 11097-69-1		
8.310	8.308	0.002	1646	0.05000	0.053	80.00- 120.00	100.00(a)
8.480	8.478	0.002	1647	0.05000	0.052	91.84- 131.84	100.06
8.893	8.890	0.003	1796	0.05000	0.052	128.05- 168.05	109.11
Average of Peak Amounts =					0.05233		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0465R.D
Date : 29-MAY-2013 22:17
Client ID: AR12546D2
Instrument: E2.i
Sample Info: AR12546D2,AR12546D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0466F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0466F.D
Lab Smp Id: AR12542D2 Client Smp ID: AR12542D2
Inj Date : 29-MAY-2013 22:37
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12542D2,AR12542D2,,ar1254.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 22:37 Cal File: E2M0466F.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

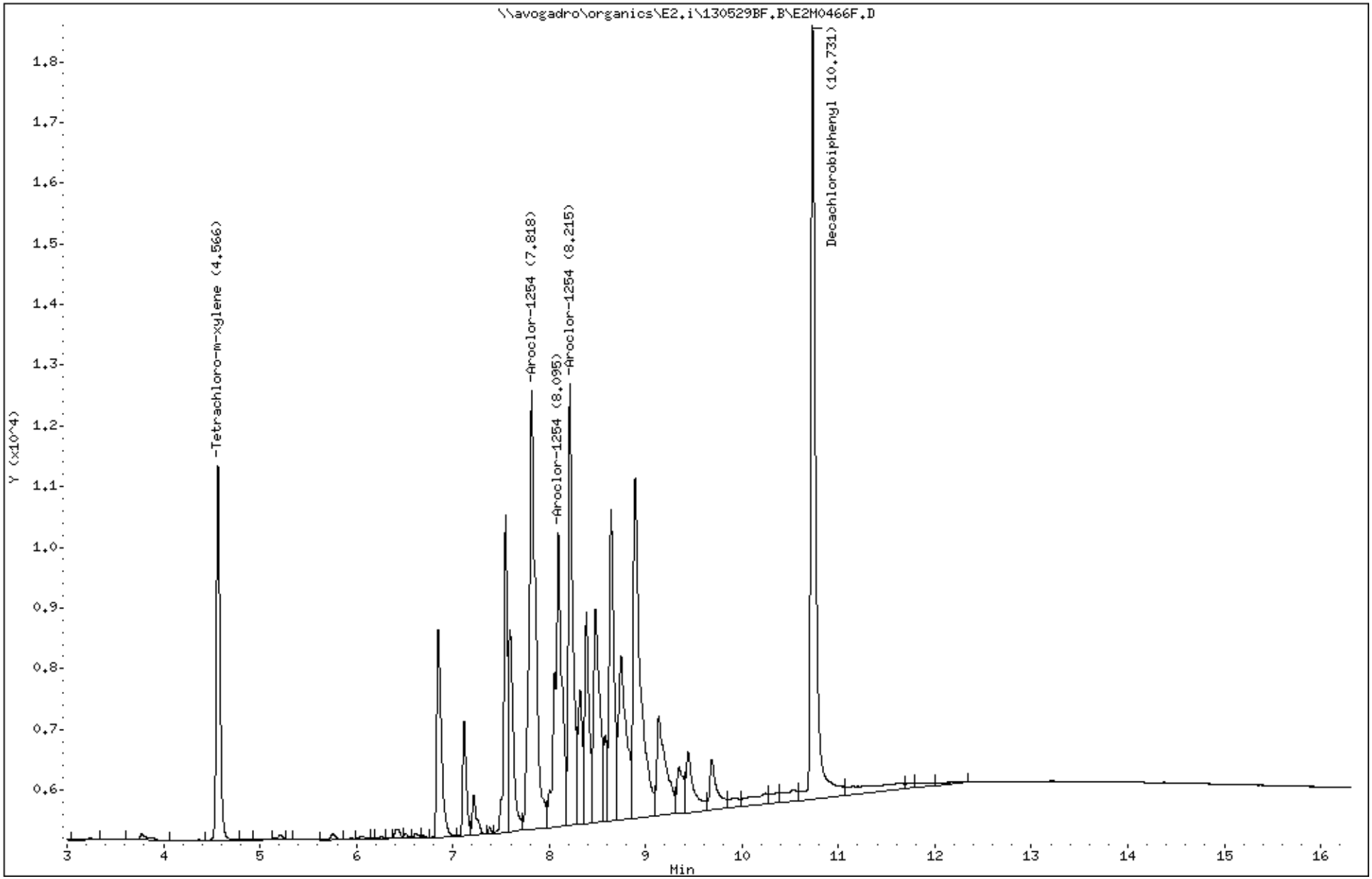
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.565	4.565	0.000	6163	0.01000	0.010		(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
10.731	10.728	0.003	452466	0.02000	0.019		(a)
8 Aroclor-1254					CAS #: 11097-69-1		
7.817	7.816	0.001	7225	0.20000	0.20	80.00- 120.00	100.00(a)
8.095	8.094	0.001	4836	0.20000	0.20	55.28- 95.28	66.93
8.214	8.212	0.002	7265	0.20000	0.20	93.68- 133.68	100.55
Average of Peak Amounts =				0.20000			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0466F.D
Date : 29-MAY-2013 22:37
Client ID: AR12542D2
Instrument: E2.i
Sample Info: AR12542D2,AR12542D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0466R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0466R.D
Lab Smp Id: AR12542D2 Client Smp ID: AR12542D2
Inj Date : 29-MAY-2013 22:37
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12542D2,AR12542D2,,ar1254.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 22:37 Cal File: E2M0466R.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

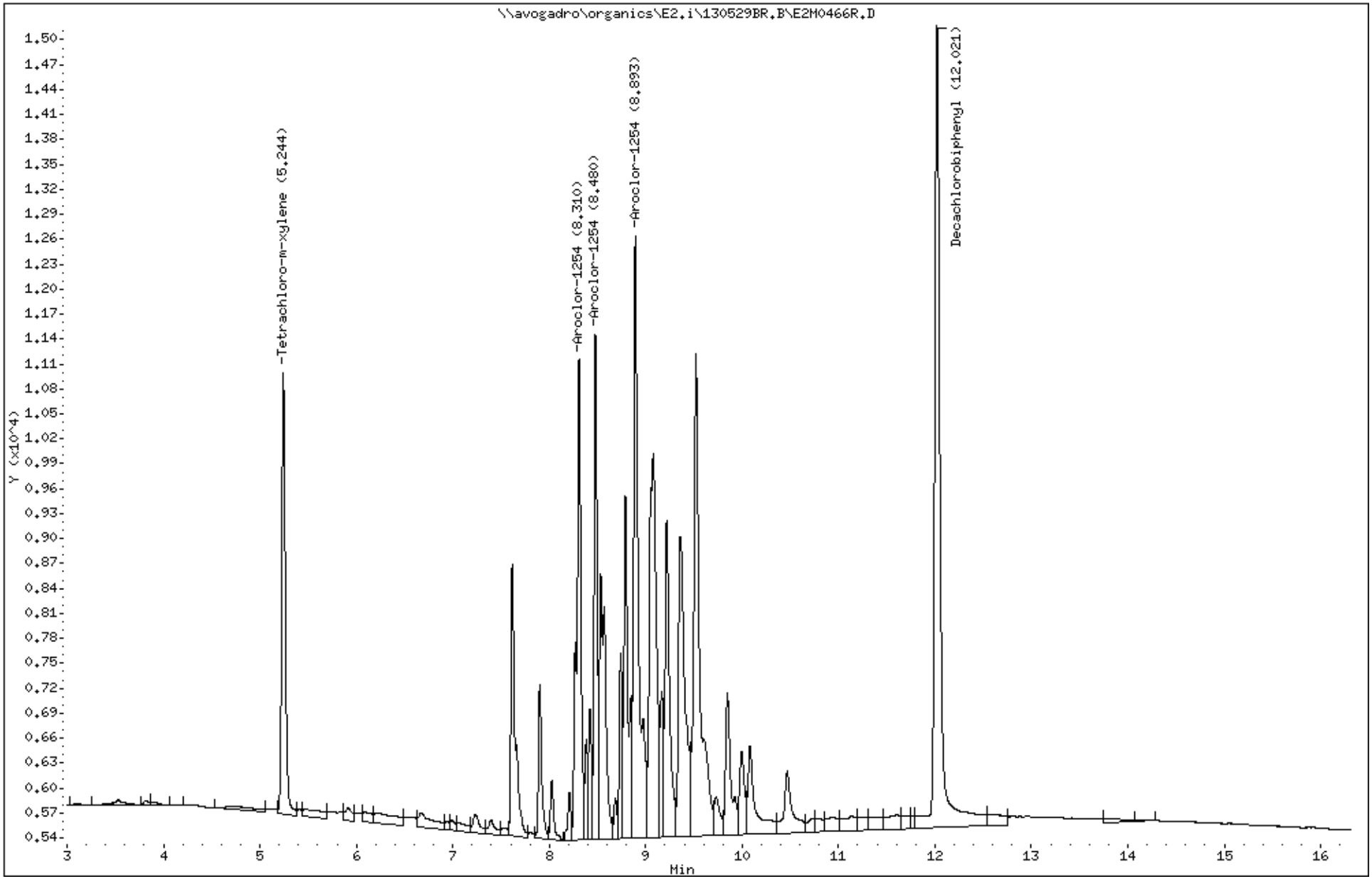
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
5.243	5.242	0.001	5301	0.01000	0.011		(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
12.021	12.018	0.003	9646	0.02000	0.023		(a)
7 Aroclor-1254					CAS #: 11097-69-1		
8.309	8.308	0.001	5784	0.20000	0.19	80.00- 120.00	100.00(a)
8.479	8.478	0.001	5947	0.20000	0.19	91.84- 131.84	102.82
8.892	8.890	0.002	7071	0.20000	0.20	128.05- 168.05	122.25
Average of Peak Amounts =					0.19333		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0466R.D
Date : 29-MAY-2013 22:37
Client ID: AR12542D2
Instrument: E2.i
Sample Info: AR12542D2,AR12542D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0467F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0467F.D
Lab Smp Id: AR12543D2 Client Smp ID: AR12543D2
Inj Date : 29-MAY-2013 22:57
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12543D2,AR12543D2,,ar1254.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475F.D
Als bottle: 22 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

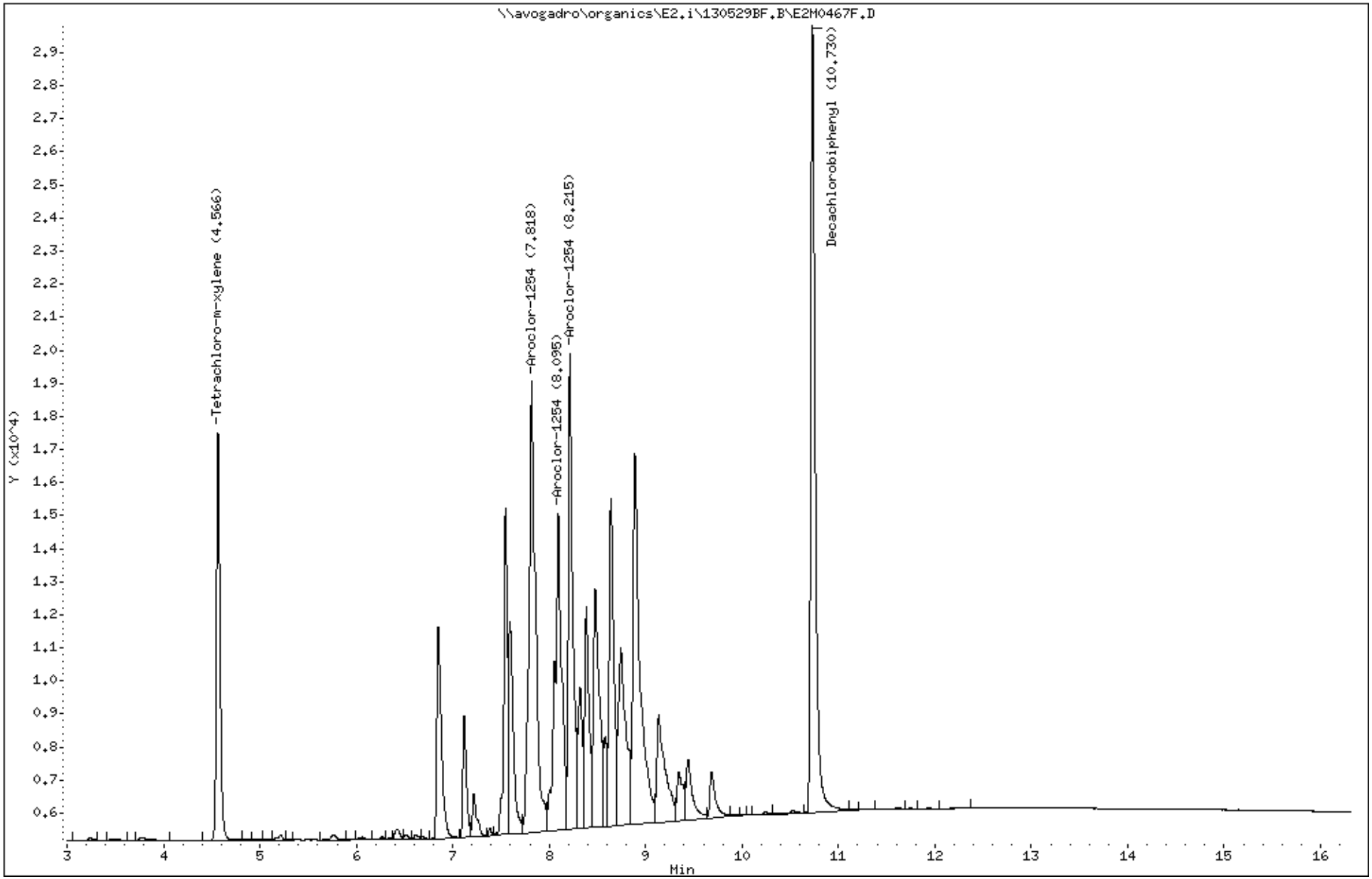
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)		
RT	EXP RT	DLT RT	RESPONSE			TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.566	4.565	0.001	12278	0.02000	0.021		(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
10.730	10.728	0.002	787655	0.04000	0.033		(a)
8 Aroclor-1254					CAS #: 11097-69-1		
7.818	7.816	0.002	13637	0.40000	0.37	80.00- 120.00	100.00(a)
8.095	8.094	0.001	9556	0.40000	0.39	55.28- 95.28	70.07
8.214	8.212	0.002	14305	0.40000	0.39	93.68- 133.68	104.90
Average of Peak Amounts =					0.38333		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0467F.D
Date : 29-MAY-2013 22:57
Client ID: AR12543D2
Instrument: E2.i
Sample Info: AR12543D2,AR12543D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0467R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0467R.D
Lab Smp Id: AR12543D2 Client Smp ID: AR12543D2
Inj Date : 29-MAY-2013 22:57
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12543D2,AR12543D2,,ar1254.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 22:57 Cal File: E2M0467R.D
Als bottle: 22 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

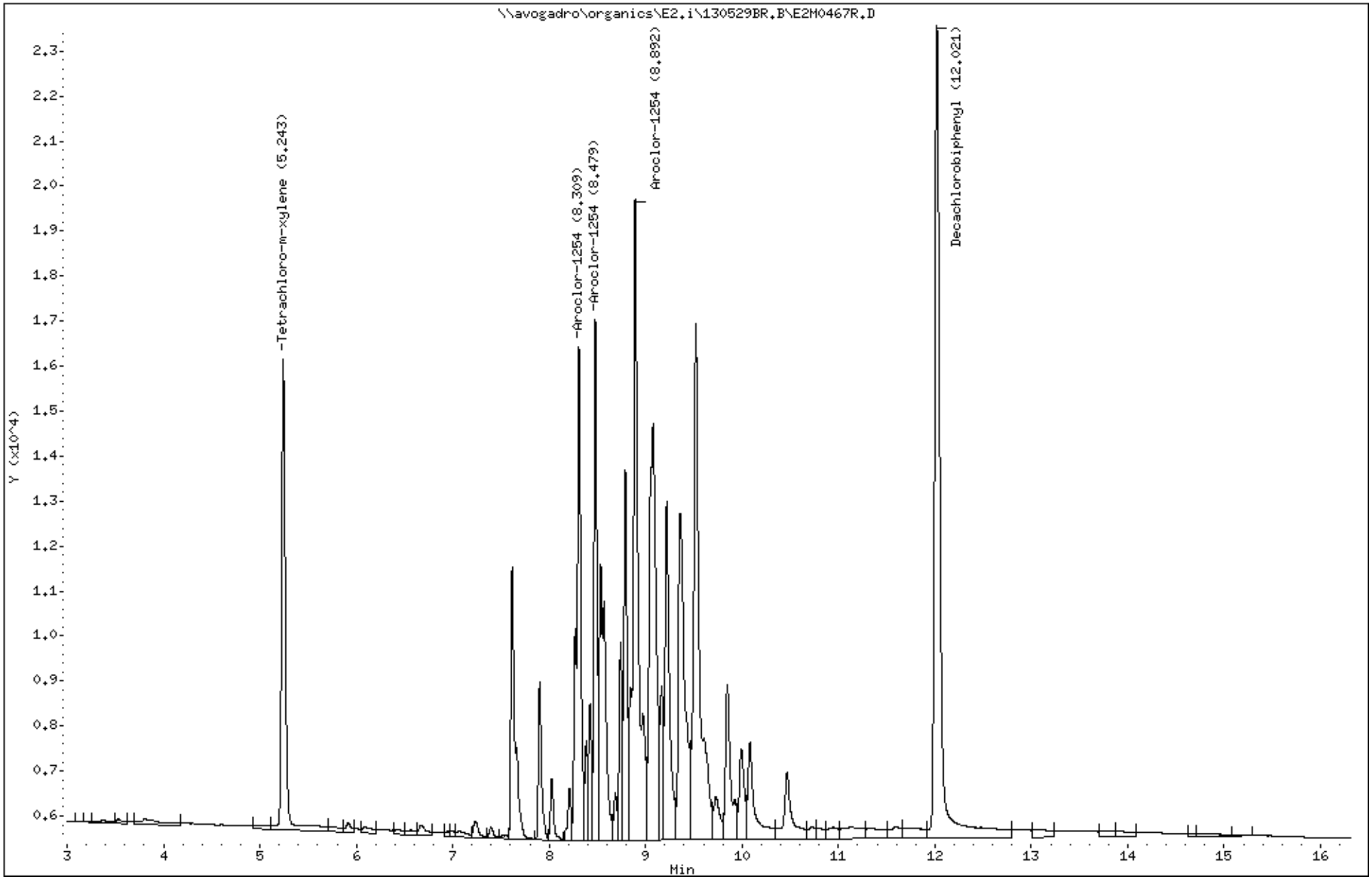
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.243	5.242	0.001	10473	0.02000	0.021			(a)
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.020	12.018	0.002	18028	0.04000	0.042			(a)
7 Aroclor-1254						CAS #: 11097-69-1		
8.309	8.308	0.001	10917	0.40000	0.37	80.00- 120.00	100.00	(a)
8.479	8.478	0.001	11581	0.40000	0.38	91.84- 131.84	106.08	
8.892	8.890	0.002	14250	0.40000	0.41	128.05- 168.05	130.53	
Average of Peak Amounts =					0.38667			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0467R.D
Date : 29-MAY-2013 22:57
Client ID: AR12543D2
Instrument: E2.i
Sample Info: AR12543D2,AR12543D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0468F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0468F.D
Lab Smp Id: AR12544D2 Client Smp ID: AR12544D2
Inj Date : 29-MAY-2013 23:17
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12544D2,AR12544D2,,ar1254.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 23:17 Cal File: E2M0468F.D
Als bottle: 23 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

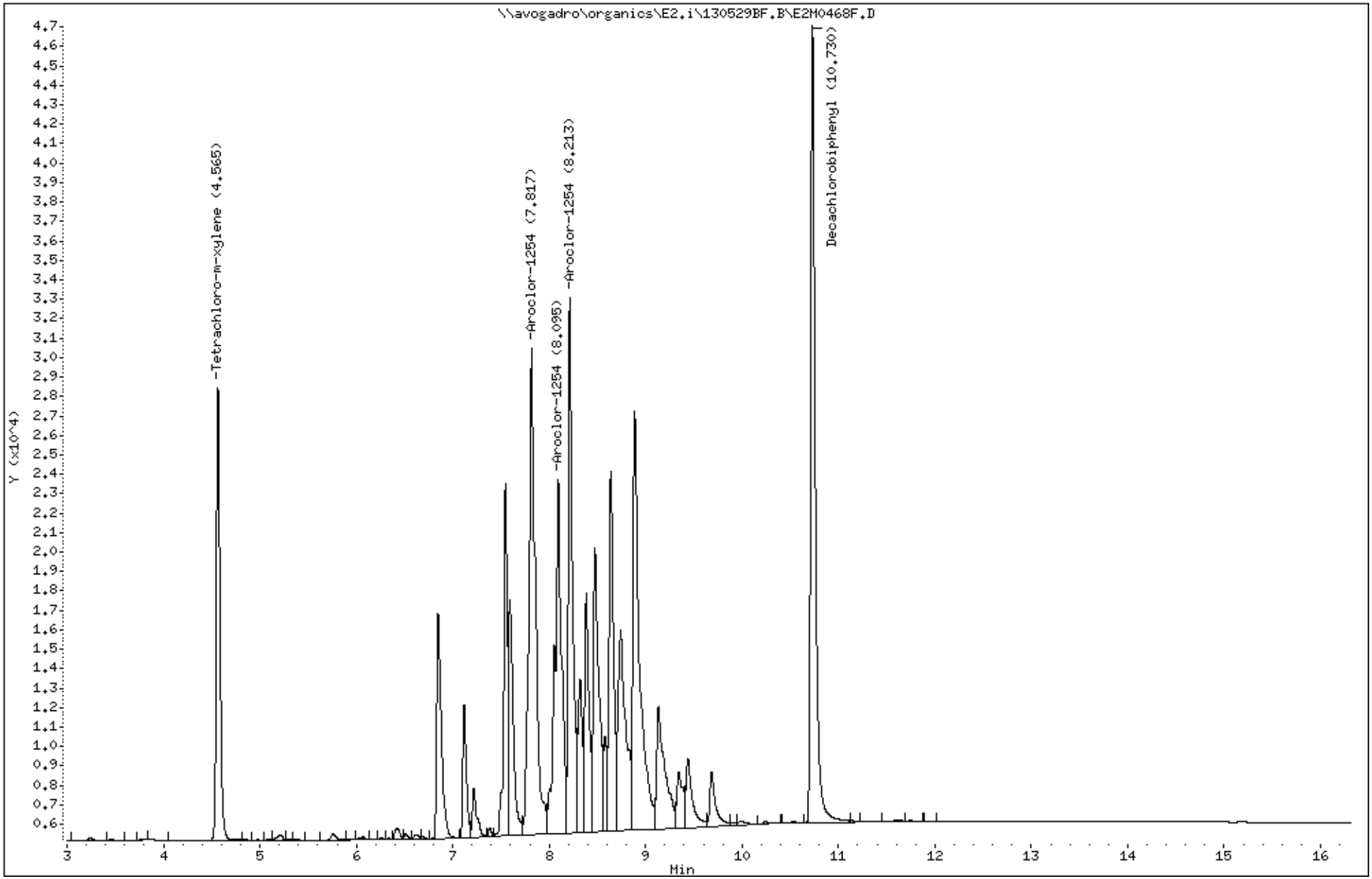
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.564	4.565	-0.001	23290	0.04000	0.039			(a)
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.729	10.728	0.001	1362202	0.08000	0.058			
8 Aroclor-1254						CAS #: 11097-69-1		
7.817	7.816	0.001	24969	0.80000	0.70	80.00- 120.00	100.00(a)	
8.094	8.094	0.000	18185	0.80000	0.75	55.28- 95.28	72.83	
8.213	8.212	0.001	27344	0.80000	0.76	93.68- 133.68	109.51	
Average of Peak Amounts =					0.73667			

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0468F.D
Date : 29-MAY-2013 23:17
Client ID: AR12544D2
Instrument: E2.i
Sample Info: AR12544D2,AR12544D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0468R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0468R.D
Lab Smp Id: AR12544D2 Client Smp ID: AR12544D2
Inj Date : 29-MAY-2013 23:17
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12544D2,AR12544D2,,ar1254.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 23:17 Cal File: E2M0468R.D
Als bottle: 23 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

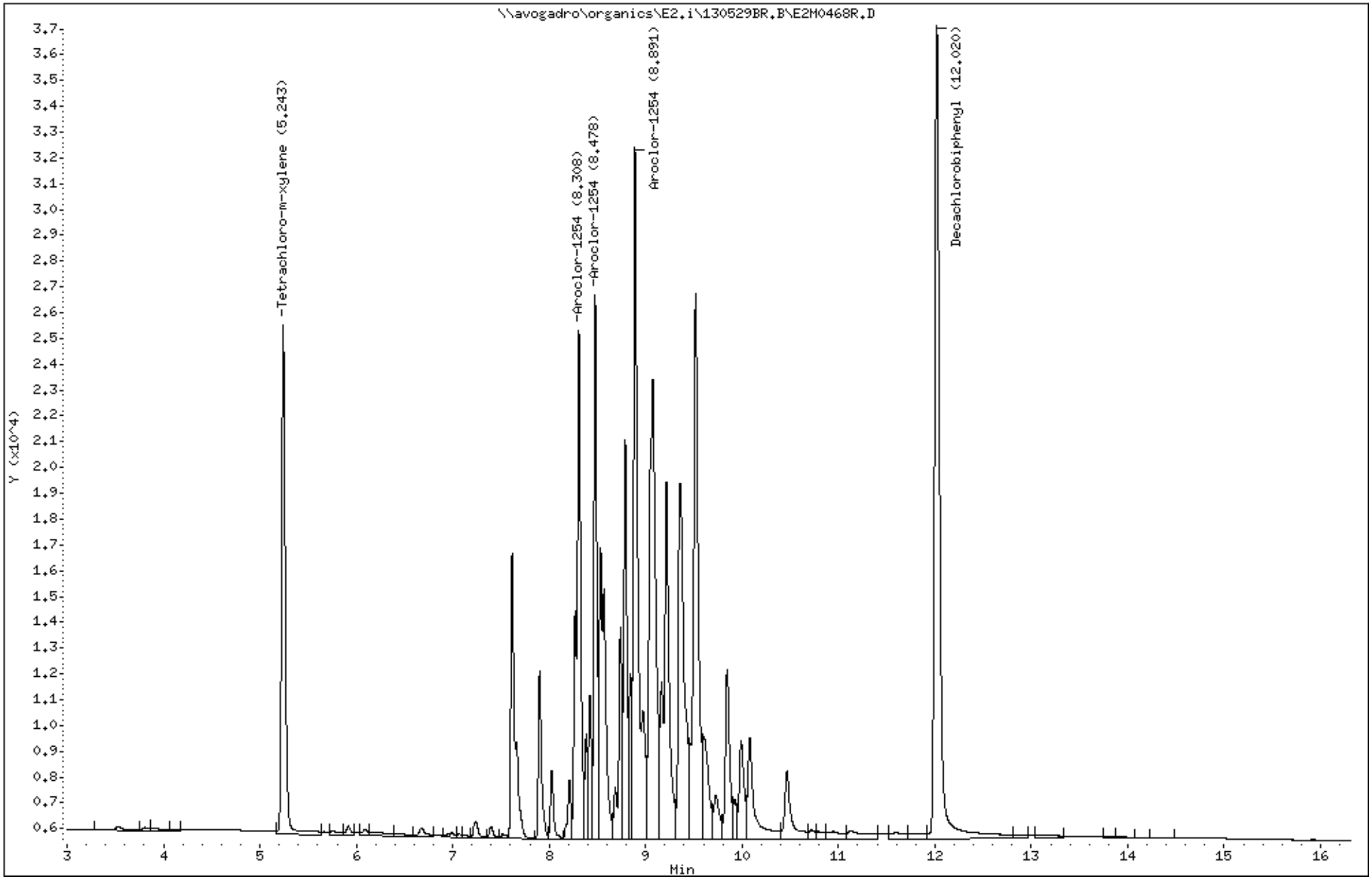
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
5.242	5.242	0.000	19722	0.04000	0.039		(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
12.019	12.018	0.001	31459	0.08000	0.073		
7 Aroclor-1254					CAS #: 11097-69-1		
8.308	8.308	0.000	19644	0.80000	0.69	80.00- 120.00	100.00(a)
8.477	8.478	-0.001	21067	0.80000	0.71	91.84- 131.84	107.24
8.890	8.890	0.000	26797	0.80000	0.77	128.05- 168.05	136.41
Average of Peak Amounts =					0.72333		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0468R.D
Date : 29-MAY-2013 23:17
Client ID: AR12544D2
Instrument: E2.i
Sample Info: AR12544D2,AR12544D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0469F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

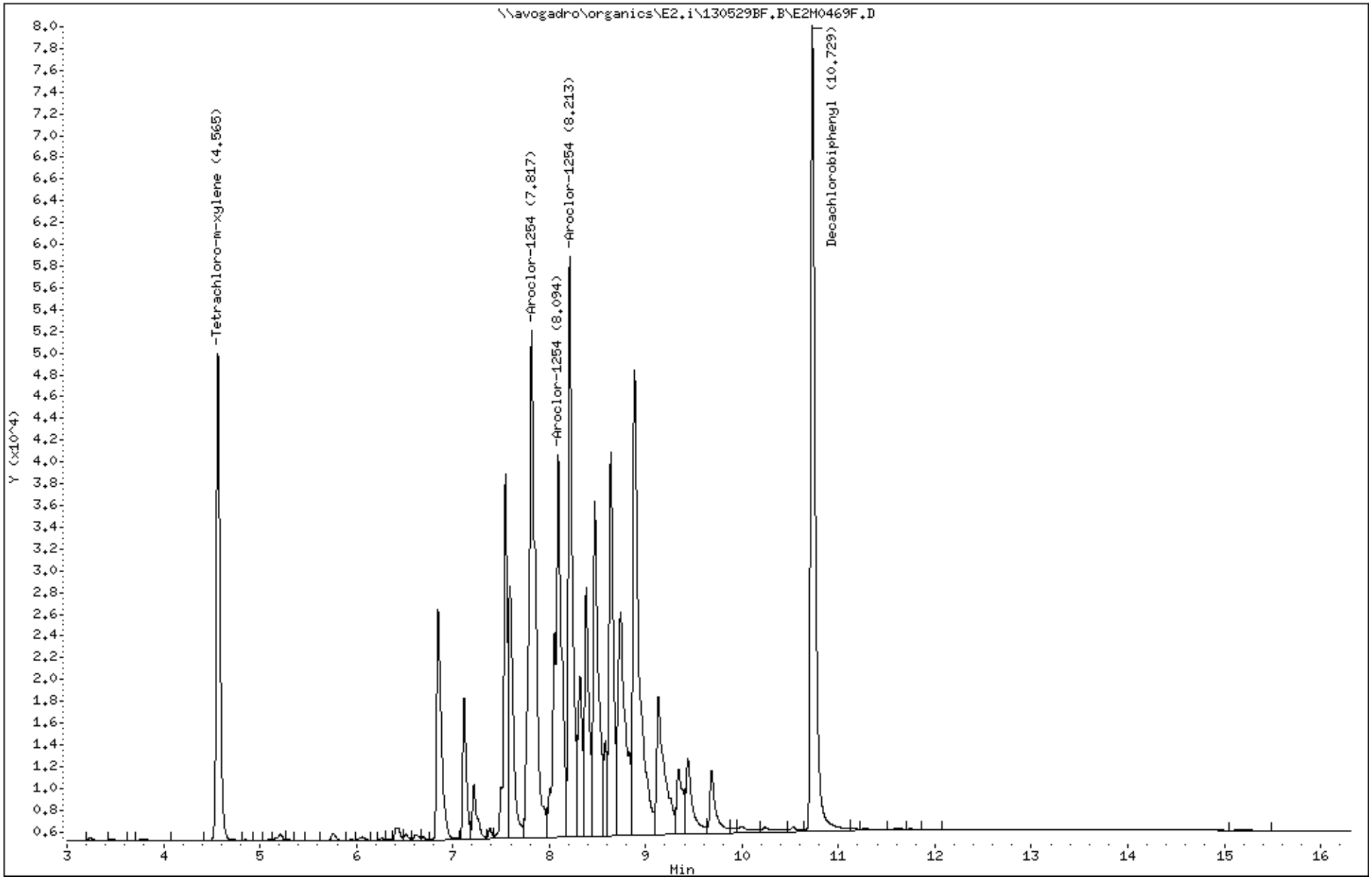
Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0469F.D
Lab Smp Id: AR12545D2 Client Smp ID: AR12545D2
Inj Date : 29-MAY-2013 23:36
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12545D2,AR12545D2,,ar1254.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 23:36 Cal File: E2M0469F.D
Als bottle: 24 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.565	4.565	0.000	44744	0.08000	0.075			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.728	10.728	0.000	2452774	0.16000	0.10			
8 Aroclor-1254						CAS #: 11097-69-1		
7.816	7.816	0.000	46537	1.60000	1.3	80.00- 120.00		100.00
8.094	8.094	0.000	35035	1.60000	1.5	55.28- 95.28		75.28
8.212	8.212	0.000	52905	1.60000	1.5	93.68- 133.68		113.68
Average of Peak Amounts =					1.43333			

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0469F.D
Date : 29-MAY-2013 23:36
Client ID: AR12545D2
Instrument: E2.i
Sample Info: AR12545D2,AR12545D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0469R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

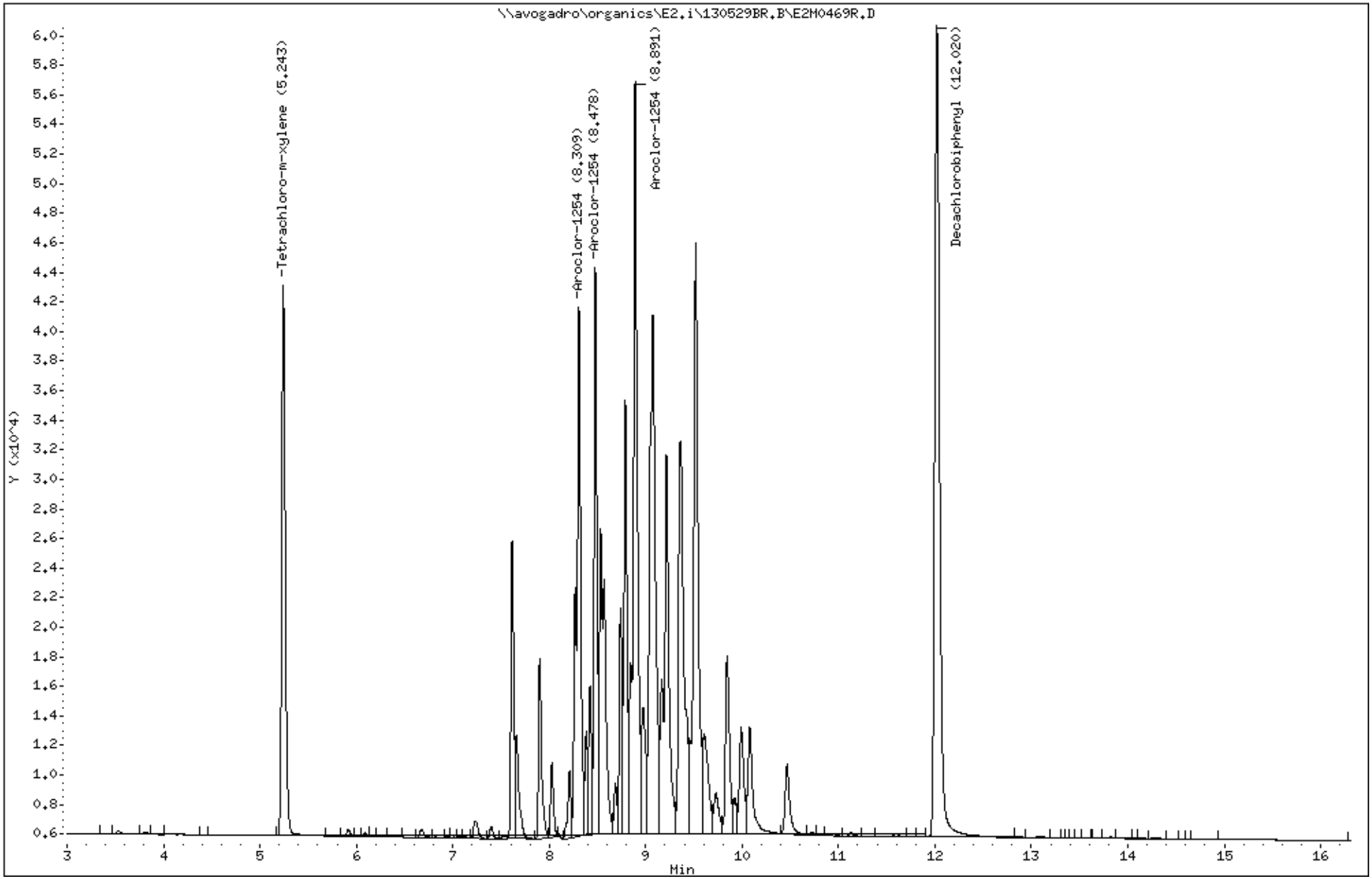
Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0469R.D
Lab Smp Id: AR12545D2 Client Smp ID: AR12545D2
Inj Date : 29-MAY-2013 23:36
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12545D2,AR12545D2,,ar1254.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 23:36 Cal File: E2M0469R.D
Als bottle: 24 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT	AMOUNTS ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.243	5.242	0.001	37238	0.08000	0.073			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.020	12.018	0.002	54755	0.16000	0.13			
7 Aroclor-1254						CAS #: 11097-69-1		
8.308	8.308	0.000	34270	1.60000	1.2	80.00- 120.00		100.00
8.478	8.478	0.000	38329	1.60000	1.3	91.84- 131.84		111.84
8.890	8.890	0.000	50736	1.60000	1.5	128.05- 168.05		148.05
Average of Peak Amounts =					1.33333			

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0469R.D
Date : 29-MAY-2013 23:36
Client ID: AR12545D2
Instrument: E2.i
Sample Info: AR12545D2,AR12545D2,,ar1254.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0470F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0470F.D
Lab Smp Id: AR12623D2 Client Smp ID: AR12623D2
Inj Date : 29-MAY-2013 23:56
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12623D2,AR12623D2,,ar1262.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475F.D
Als bottle: 25 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1262.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

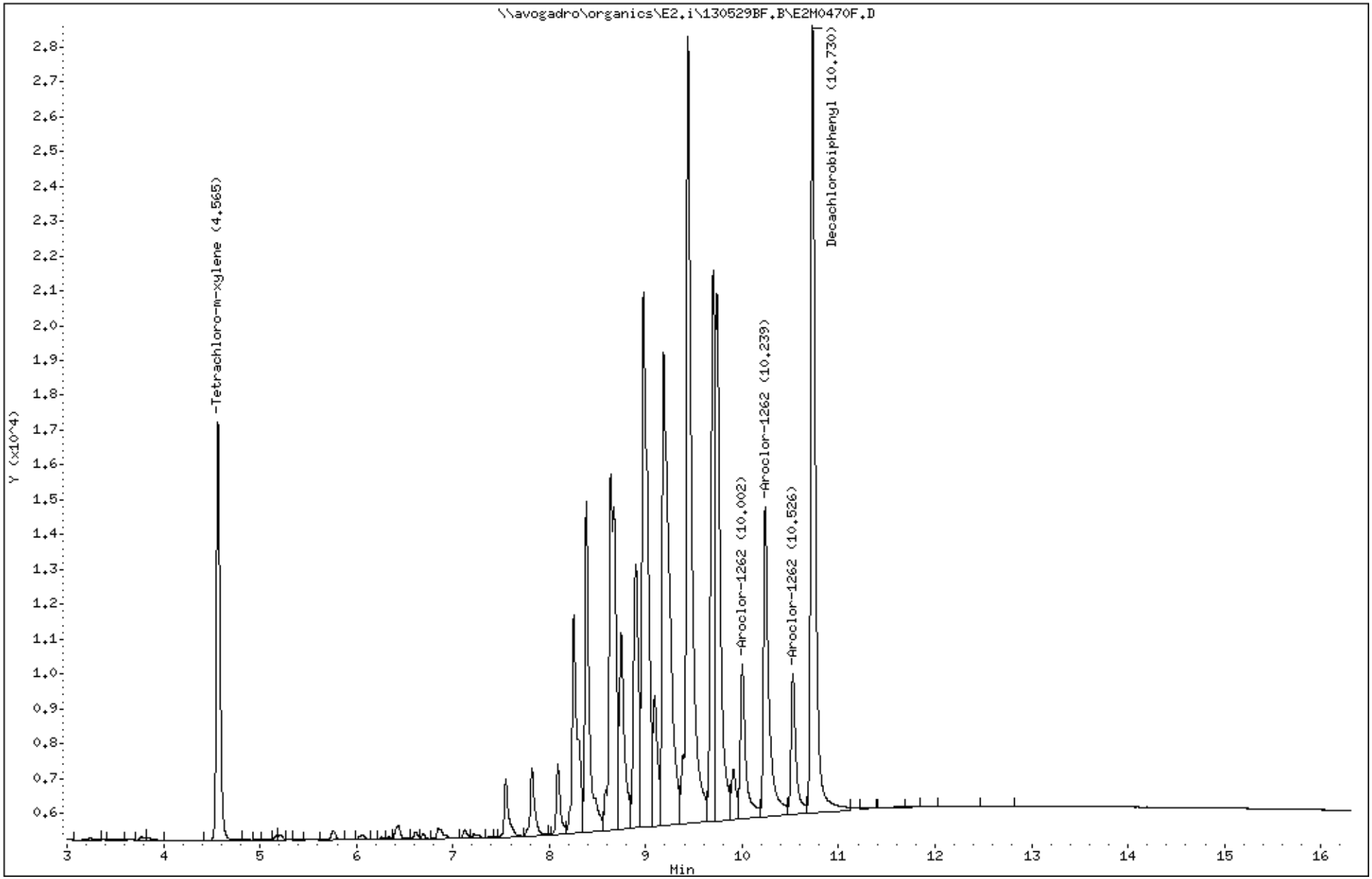
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.565	4.565	0.000	12021	0.02000	0.020			(a)
2 Aroclor-1262					CAS #: 37324-23-5			
10.001	10.001	0.000	4443	0.40000	0.40	80.00- 120.00	100.00	
10.239	10.239	0.000	8865	0.40000	0.40	179.53- 219.53	199.53	
10.525	10.525	0.000	4039	0.40000	0.40	70.91- 110.91	90.91	
Average of Peak Amounts =					0.40000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
10.729	10.728	0.001	762974	0.04000	0.032			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0470F.D
Date : 29-MAY-2013 23:56
Client ID: AR12623D2
Instrument: E2.i
Sample Info: AR12623D2,AR12623D2,,ar1262.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0470R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0470R.D
Lab Smp Id: AR12623D2 Client Smp ID: AR12623D2
Inj Date : 29-MAY-2013 23:56
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12623D2,AR12623D2,,ar1262.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 29-MAY-2013 23:56 Cal File: E2M0470R.D
Als bottle: 25 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1262.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

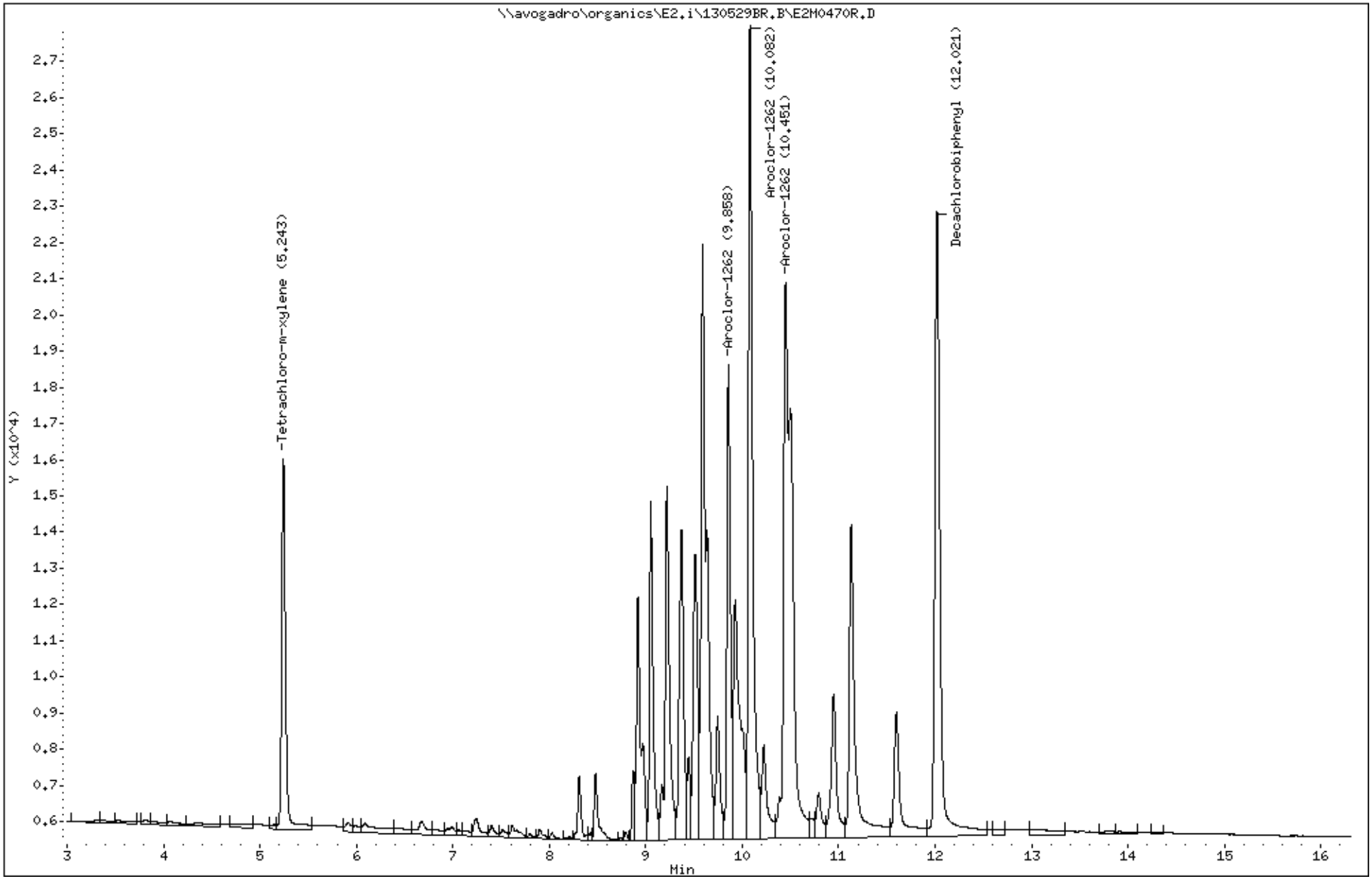
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.243	5.242	0.001	10222	0.02000	0.020			(a)
10 Aroclor-1262					CAS #: 37324-23-5			
9.857	9.857	0.000	13121	0.40000	0.40	80.00- 120.00	100.00	(a)
10.081	10.081	0.000	22281	0.40000	0.40	149.81- 189.81	169.81	
10.450	10.450	0.000	15342	0.40000	0.40	96.93- 136.93	116.93	
Average of Peak Amounts =					0.40000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
12.020	12.018	0.002	17216	0.04000	0.040			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0470R.D
Date : 29-MAY-2013 23:56
Client ID: AR12623D2
Instrument: E2.i
Sample Info: AR12623D2,AR12623D2,,ar1262.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0471F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0471F.D
Lab Smp Id: AR12683D2 Client Smp ID: AR12683D2
Inj Date : 30-MAY-2013 00:16
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12683D2,AR12683D2,,ar1268.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475F.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1268.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

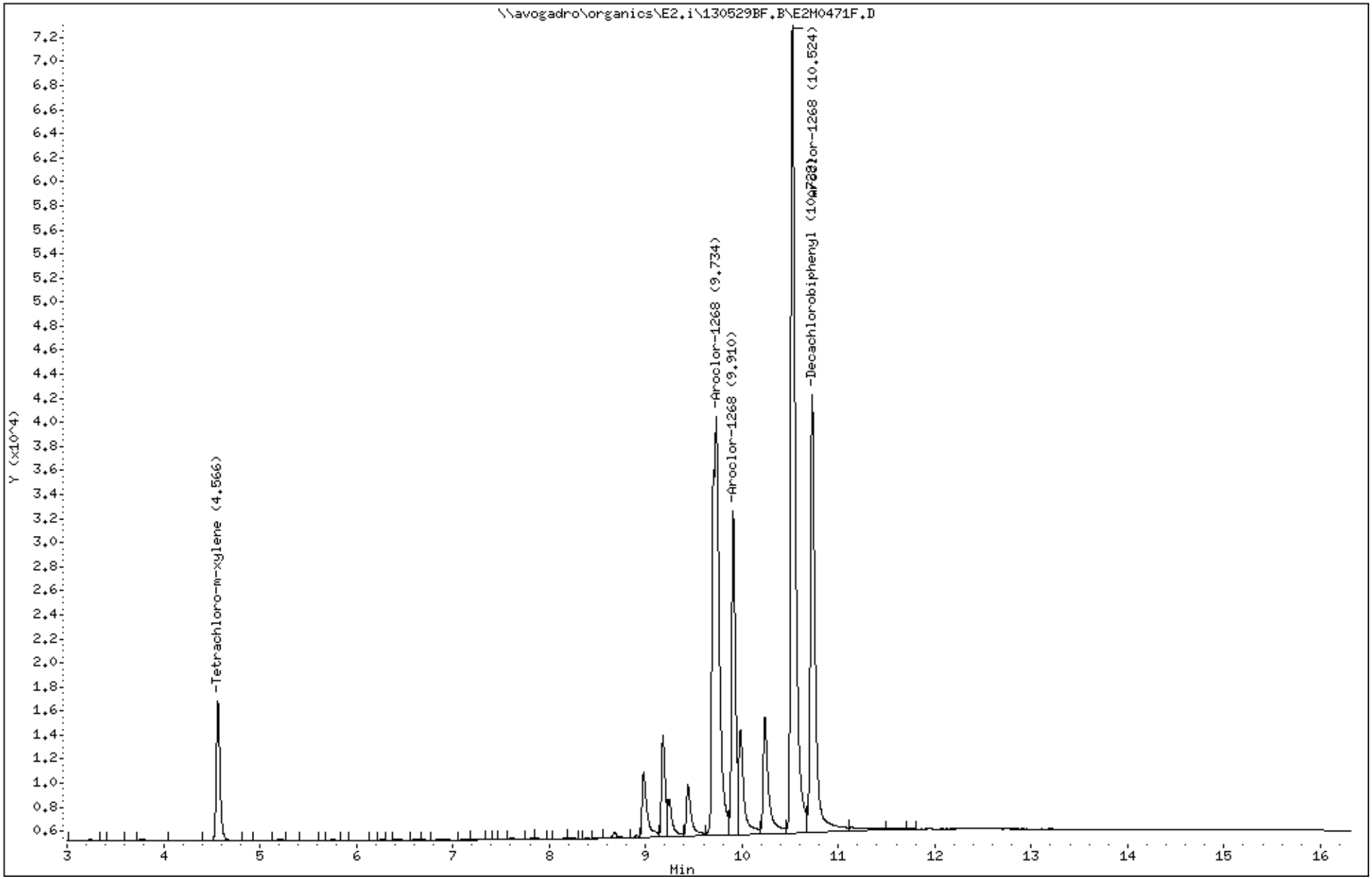
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.565	4.565	0.000	11579	0.02000	0.020			(a)
10 Aroclor-1268						CAS #: 11100-14-4		
9.733	9.733	0.000	34819	0.40000	0.40	80.00- 120.00	100.00	(a)
9.910	9.910	0.000	26763	0.40000	0.40	56.86- 96.86	76.86	
10.523	10.523	0.000	66964	0.40000	0.40	172.32- 212.32	192.32	
Average of Peak Amounts =				0.40000				
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.729	10.728	0.001	1287870	0.04000	0.049			(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0471F.D
Date : 30-MAY-2013 00:16
Client ID: AR12683D2
Instrument: E2.i
Sample Info: AR12683D2,AR12683D2,,ar1268.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0471R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0471R.D
Lab Smp Id: AR12683D2 Client Smp ID: AR12683D2
Inj Date : 30-MAY-2013 00:16
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR12683D2,AR12683D2,,ar1268.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 00:16 Cal File: E2M0471R.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1268.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

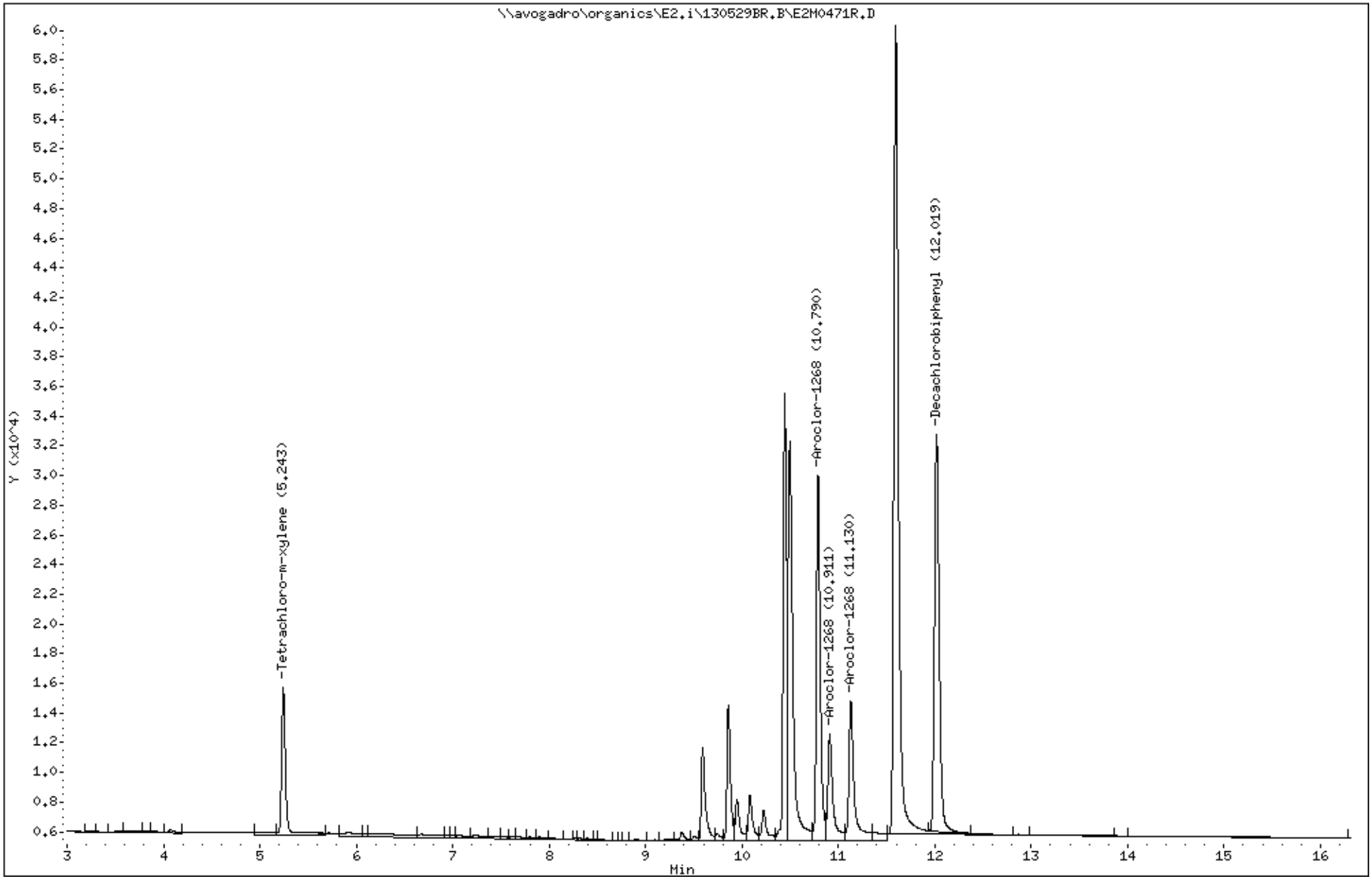
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
5.243	5.242	0.001	9981	0.02000	0.020		(a)
9 Aroclor-1268					CAS #: 11100-14-4		
10.790	10.790	0.000	24628	0.40000	0.40	80.00- 120.00	100.00(a)
10.911	10.911	0.000	7200	0.40000	0.40	9.24- 49.24	29.24
11.129	11.129	0.000	9393	0.40000	0.40	18.14- 58.14	38.14
		Average of Peak Amounts =		0.40000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
12.019	12.018	0.001	26790	0.04000	0.056		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0471R.D
Date : 30-MAY-2013 00:16
Client ID: AR12683D2
Instrument: E2.i
Sample Info: AR12683D2,AR12683D2,,ar1268.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0472F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0472F.D
Lab Smp Id: AR16601D2 Client Smp ID: AR16601D2
Inj Date : 30-MAY-2013 00:35
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16601D2,AR16601D2,,ar1660.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 00:35 Cal File: E2M0472F.D
Als bottle: 27 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

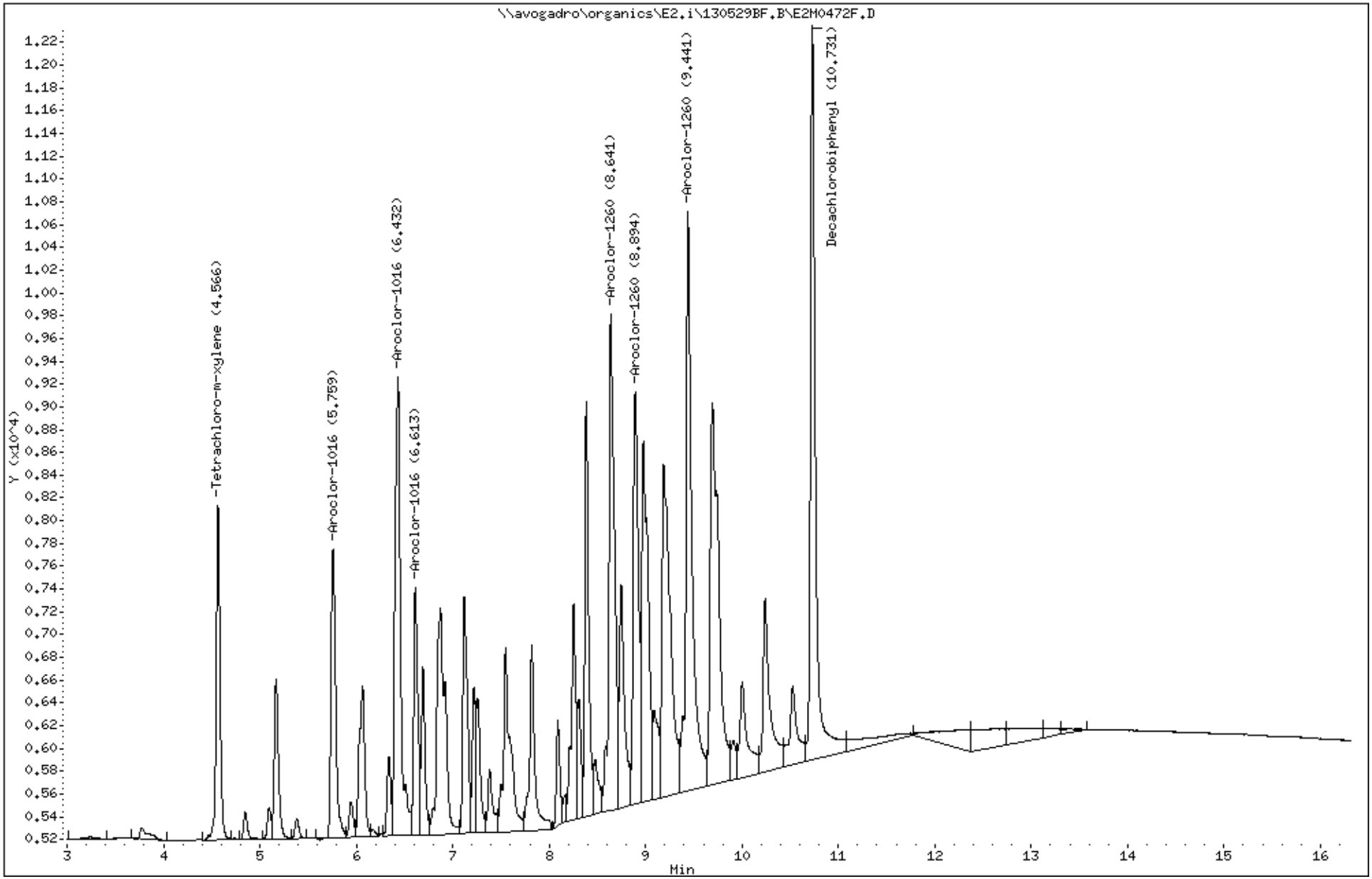
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.566	4.565	0.001	2933	0.00500	0.0051			(a)
5 Aroclor-1016					CAS #: 12674-11-2			
5.759	5.756	0.003	2533	0.10000	0.11	80.00- 120.00	100.00	(a)
6.431	6.431	0.000	4033	0.10000	0.11	154.92- 194.92	159.22	
6.613	6.611	0.002	2156	0.10000	0.11	75.76- 115.76	85.12	
Average of Peak Amounts =					0.11000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
10.730	10.728	0.002	241880	0.01000	0.012			(aM)M6 TM 06/04
9 Aroclor-1260					CAS #: 11096-82-5			
8.640	8.635	0.005	4362	0.10000	0.10	80.00- 120.00	100.00	(aM)M6 TM 06/04
8.893	8.885	0.008	3617	0.10000	0.099	73.67- 113.67	82.92	
9.440	9.435	0.005	5083	0.10000	0.098	102.04- 142.04	116.53	
Average of Peak Amounts =					0.09900			

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0472F.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0472F.D
Date : 30-MAY-2013 00:35
Client ID: AR16601D2
Instrument: E2.i
Sample Info: AR16601D2,AR16601D2,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0472R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0472R.D
Lab Smp Id: AR16601D2 Client Smp ID: AR16601D2
Inj Date : 30-MAY-2013 00:35
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16601D2,AR16601D2,,ar1660.sub,,
Misc Info : 1,1,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 00:35 Cal File: E2M0472R.D
Als bottle: 27 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

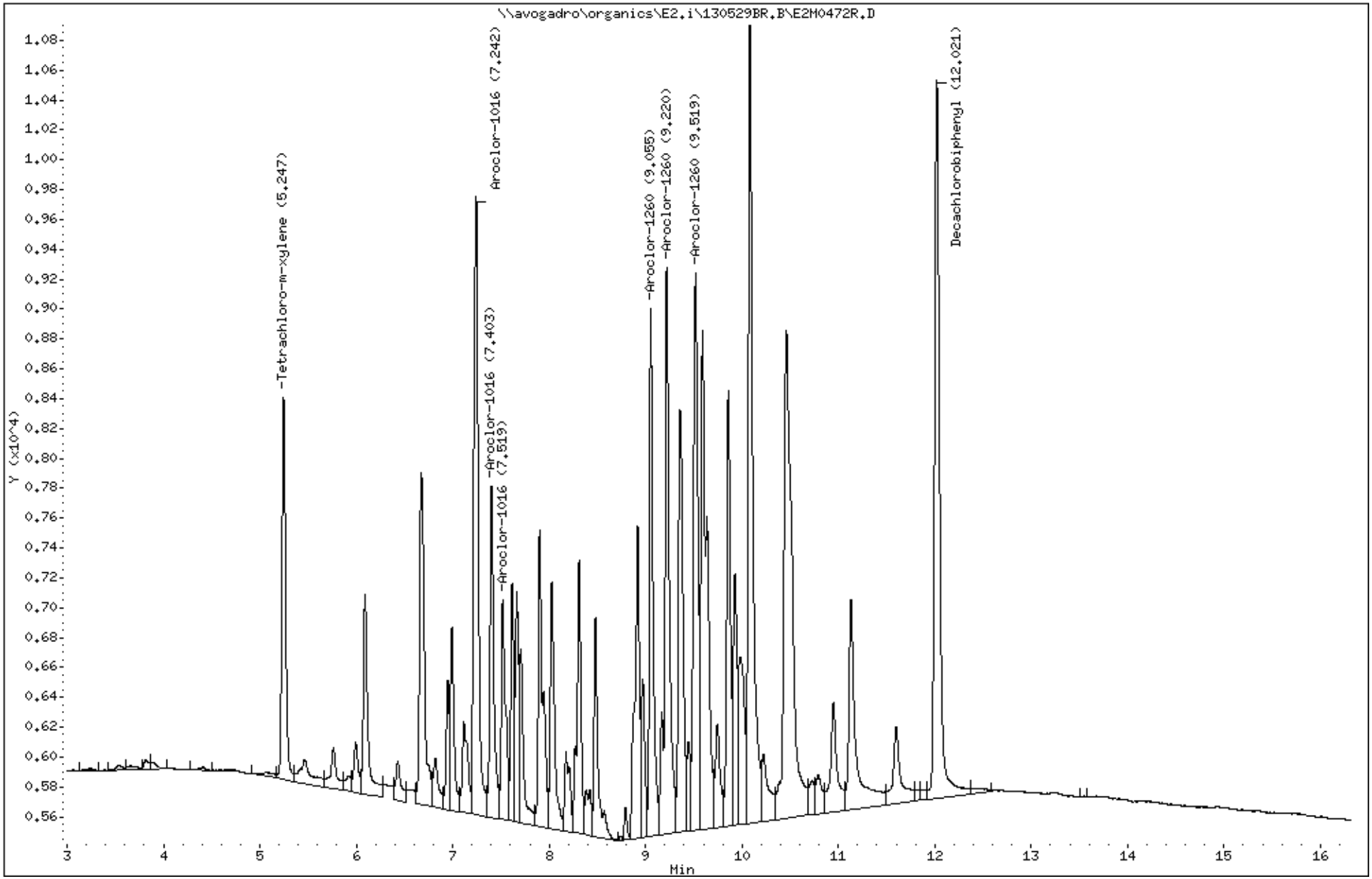
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.246	5.242	0.004	2546	0.00500	0.0051			(a)
6 Aroclor-1016						CAS #: 12674-11-2		
7.242	7.240	0.002	4142	0.10000	0.10	80.00- 120.00	100.00	(a)
7.403	7.400	0.003	2220	0.10000	0.10	33.79- 73.79	53.60	
7.518	7.516	0.002	1467	0.10000	0.10	16.38- 56.38	35.42	
Average of Peak Amounts =				0.10000				
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.021	12.018	0.003	4806	0.01000	0.010			(a)
8 Aroclor-1260						CAS #: 11096-82-5		
9.054	9.051	0.003	3490	0.10000	0.10	80.00- 120.00	100.00	(a)
9.220	9.215	0.005	3733	0.10000	0.10	96.25- 136.25	106.96	
9.518	9.514	0.004	3729	0.10000	0.10	98.14- 138.14	106.85	
Average of Peak Amounts =				0.10000				

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0472R.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0472R.D
Date : 30-MAY-2013 00:35
Client ID: AR16601D2
Instrument: E2.i
Sample Info: AR16601D2,AR16601D2,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0473F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0473F.D
Lab Smp Id: AR16606D2 Client Smp ID: AR16606D2
Inj Date : 30-MAY-2013 00:55
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16606D2,AR16606D2,,ar1660.sub,,
Misc Info : 1,6,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 00:55 Cal File: E2M0473F.D
Als bottle: 28 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

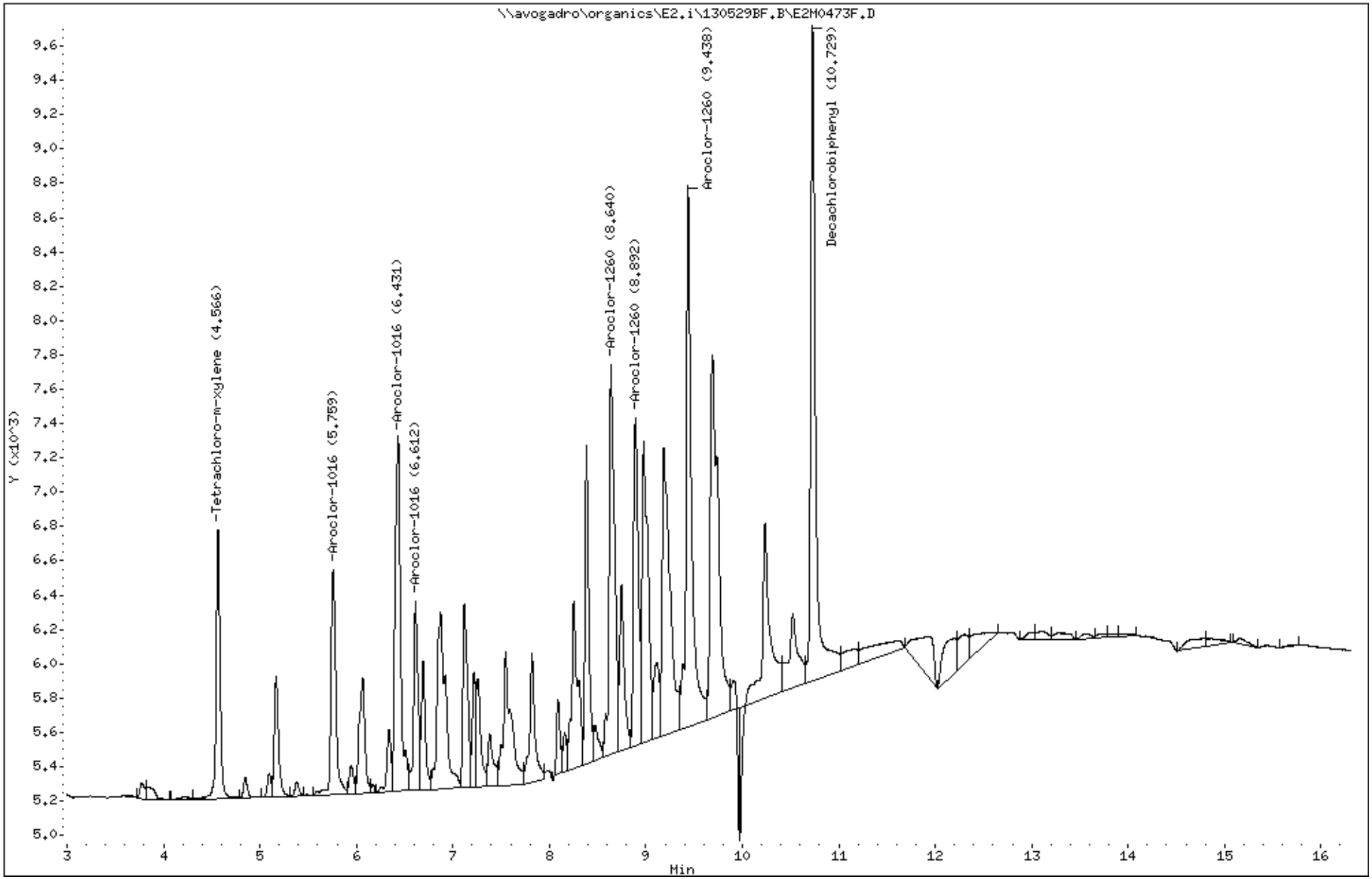
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.565	4.565	0.000	1562	0.00000	0.0027		(a)	
5 Aroclor-1016						CAS #: 12674-11-2		
5.758	5.756	0.002	1308	0.05000	0.058	80.00- 120.00	100.00	(aM)M6 TM 06/04
6.431	6.431	0.000	2068	0.05000	0.056	154.92- 194.92	158.10	
6.611	6.611	0.000	1103	0.05000	0.055	75.76- 115.76	84.33	
Average of Peak Amounts =					0.05633			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.728	10.728	0.000	139734	0.00000	0.0071		(aM)M6 TM 06/04	
9 Aroclor-1260						CAS #: 11096-82-5		
8.638	8.635	0.003	2272	0.05000	0.054	80.00- 120.00	100.00	(aM)M6 TM 06/04
8.891	8.885	0.006	1905	0.05000	0.052	73.67- 113.67	83.85	
9.436	9.435	0.001	3155	0.05000	0.061	102.04- 142.04	138.86	
Average of Peak Amounts =					0.05567			

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0473F.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0473F.D
Date : 30-MAY-2013 00:55
Client ID: AR16606D2 Instrument: E2.i
Sample Info: AR16606D2,AR16606D2,,ar1660.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: TM
Column phase: CLPPest Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0473R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0473R.D
Lab Smp Id: AR16606D2 Client Smp ID: AR16606D2
Inj Date : 30-MAY-2013 00:55
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16606D2,AR16606D2,,ar1660.sub,,
Misc Info : 1,6,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 00:55 Cal File: E2M0473R.D
Als bottle: 28 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

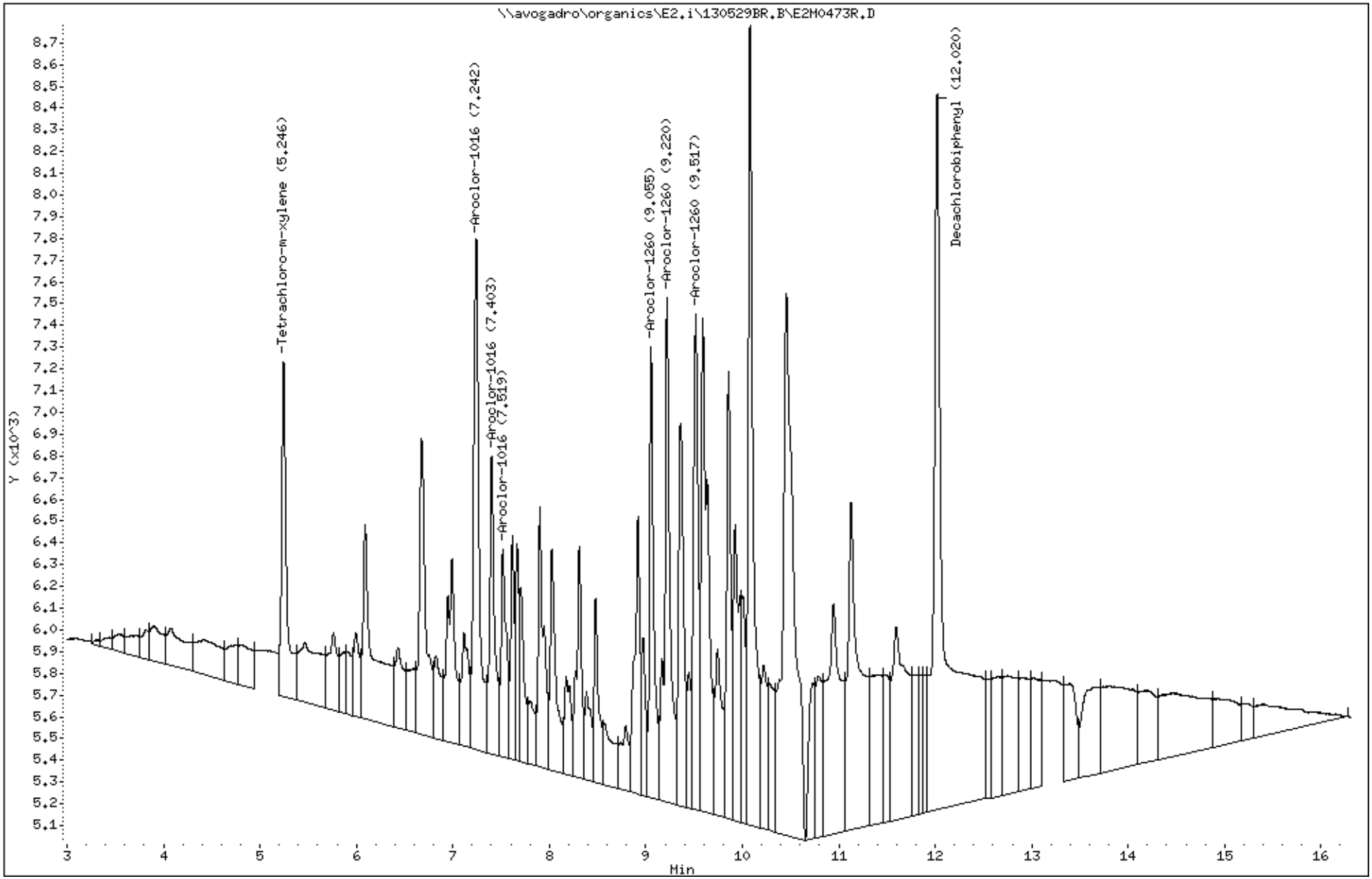
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.245	5.242	0.003	1535	0.00000	0.0031			(a)
6 Aroclor-1016						CAS #: 12674-11-2		
7.242	7.240	0.002	2347	0.05000	0.053	80.00- 120.00	100.00	(a)
7.402	7.400	0.002	1367	0.05000	0.055	33.79- 73.79	58.24	
7.518	7.516	0.002	957	0.05000	0.057	16.38- 56.38	40.78	
Average of Peak Amounts =				0.05500				
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.019	12.018	0.001	3286	0.00000	0.0069			(a)
8 Aroclor-1260						CAS #: 11096-82-5		
9.054	9.051	0.003	2050	0.05000	0.054	80.00- 120.00	100.00	(a)
9.219	9.215	0.004	2284	0.05000	0.055	96.25- 136.25	111.41	
9.517	9.514	0.003	2278	0.05000	0.055	98.14- 138.14	111.12	
Average of Peak Amounts =				0.05467				

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0473R.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0473R.D
Date : 30-MAY-2013 00:55
Client ID: AR16606D2
Instrument: E2.i
Sample Info: AR16606D2,AR16606D2,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0474F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0474F.D
Lab Smp Id: AR16602D2 Client Smp ID: AR16602D2
Inj Date : 30-MAY-2013 01:15
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16602D2,AR16602D2,,ar1660.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:15 Cal File: E2M0474F.D
Als bottle: 29 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

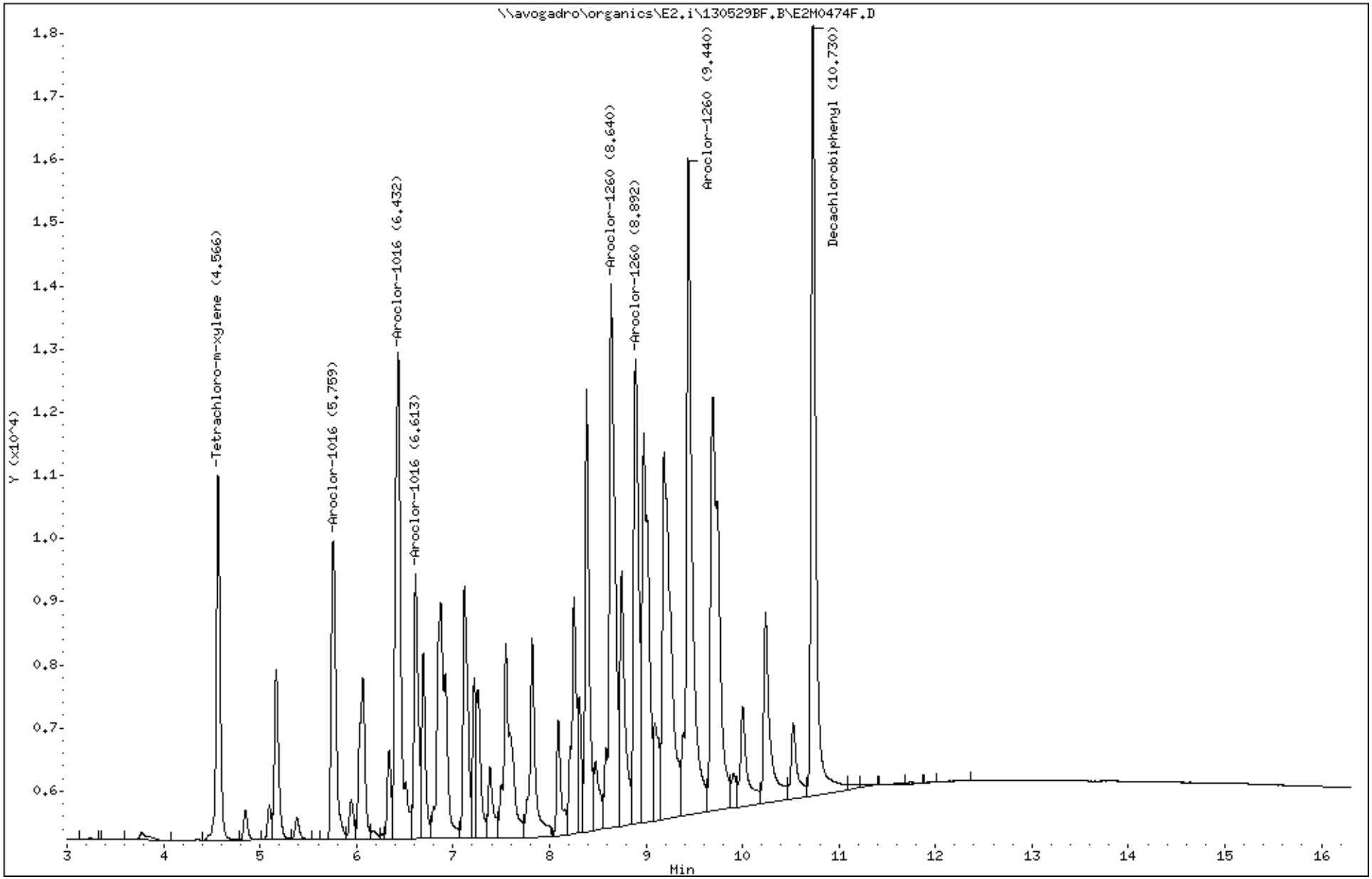
	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$	1 Tetrachloro-m-xylene						CAS #: 877-09-8		
	4.565	4.565	0.000	5772	0.01000	0.0100			(a)
	5 Aroclor-1016						CAS #: 12674-11-2		
	5.758	5.756	0.002	4739	0.20000	0.21	80.00- 120.00	100.00	(a)
	6.431	6.431	0.000	7719	0.20000	0.21	154.92- 194.92	162.88	
	6.612	6.611	0.001	4165	0.20000	0.21	75.76- 115.76	87.89	
		Average of Peak Amounts =			0.21000				
$	11 Decachlorobiphenyl						CAS #: 2051-24-3		
	10.730	10.728	0.002	424313	0.02000	0.022			(a)
	9 Aroclor-1260						CAS #: 11096-82-5		
	8.639	8.635	0.004	8554	0.20000	0.20	80.00- 120.00	100.00	(a)
	8.892	8.885	0.007	7367	0.20000	0.20	73.67- 113.67	86.12	
	9.439	9.435	0.004	10336	0.20000	0.20	102.04- 142.04	120.83	
		Average of Peak Amounts =			0.20000				

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0474F.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0474F.D
Date : 30-MAY-2013 01:15
Client ID: AR16602D2 Instrument: E2.i
Sample Info: AR16602D2,AR16602D2,,ar1660.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: TM
Column phase: CLPPest Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0474R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0474R.D
Lab Smp Id: AR16602D2 Client Smp ID: AR16602D2
Inj Date : 30-MAY-2013 01:15
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16602D2,AR16602D2,,ar1660.sub,,
Misc Info : 1,2,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:15 Cal File: E2M0474R.D
Als bottle: 29 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

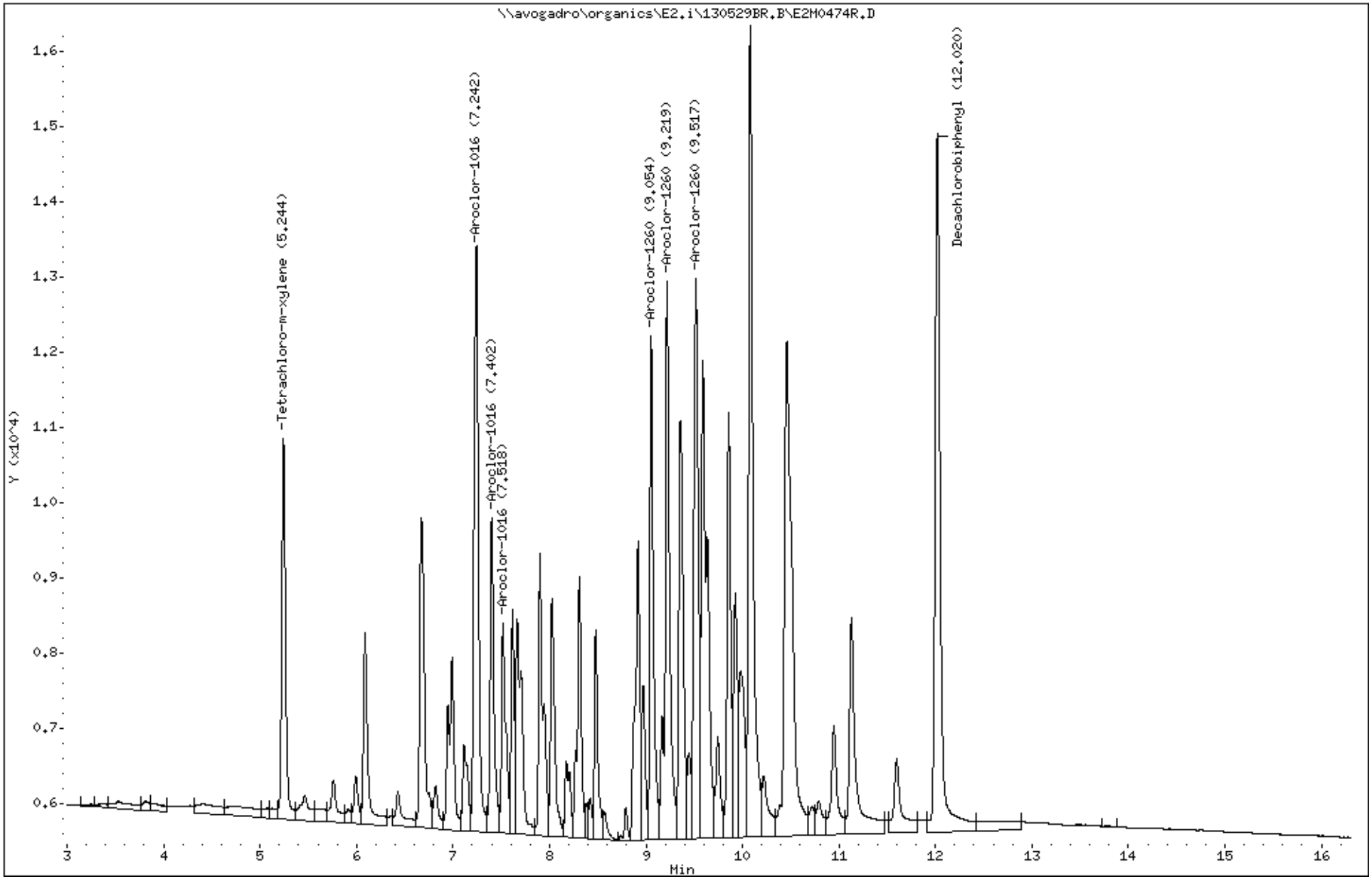
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.243	5.242	0.001	5049	0.01000	0.010			(a)
6 Aroclor-1016						CAS #: 12674-11-2		
7.241	7.240	0.001	7814	0.20000	0.18	80.00- 120.00	100.00	(a)
7.401	7.400	0.001	4155	0.20000	0.18	33.79- 73.79	53.17	
7.517	7.516	0.001	2789	0.20000	0.18	16.38- 56.38	35.69	
Average of Peak Amounts =					0.18000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.020	12.018	0.002	9259	0.02000	0.020			(a)
8 Aroclor-1260						CAS #: 11096-82-5		
9.053	9.051	0.002	6567	0.20000	0.18	80.00- 120.00	100.00	(a)
9.218	9.215	0.003	7439	0.20000	0.18	96.25- 136.25	113.28	
9.517	9.514	0.003	7446	0.20000	0.19	98.14- 138.14	113.39	
Average of Peak Amounts =					0.18333			

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0474R.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0474R.D
Date : 30-MAY-2013 01:15
Client ID: AR16602D2
Instrument: E2.i
Sample Info: AR16602D2,AR16602D2,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0475F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0475F.D
Lab Smp Id: AR16603D2 Client Smp ID: AR16603D2
Inj Date : 30-MAY-2013 01:34
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16603D2,AR16603D2,,ar1660.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475F.D
Als bottle: 30 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

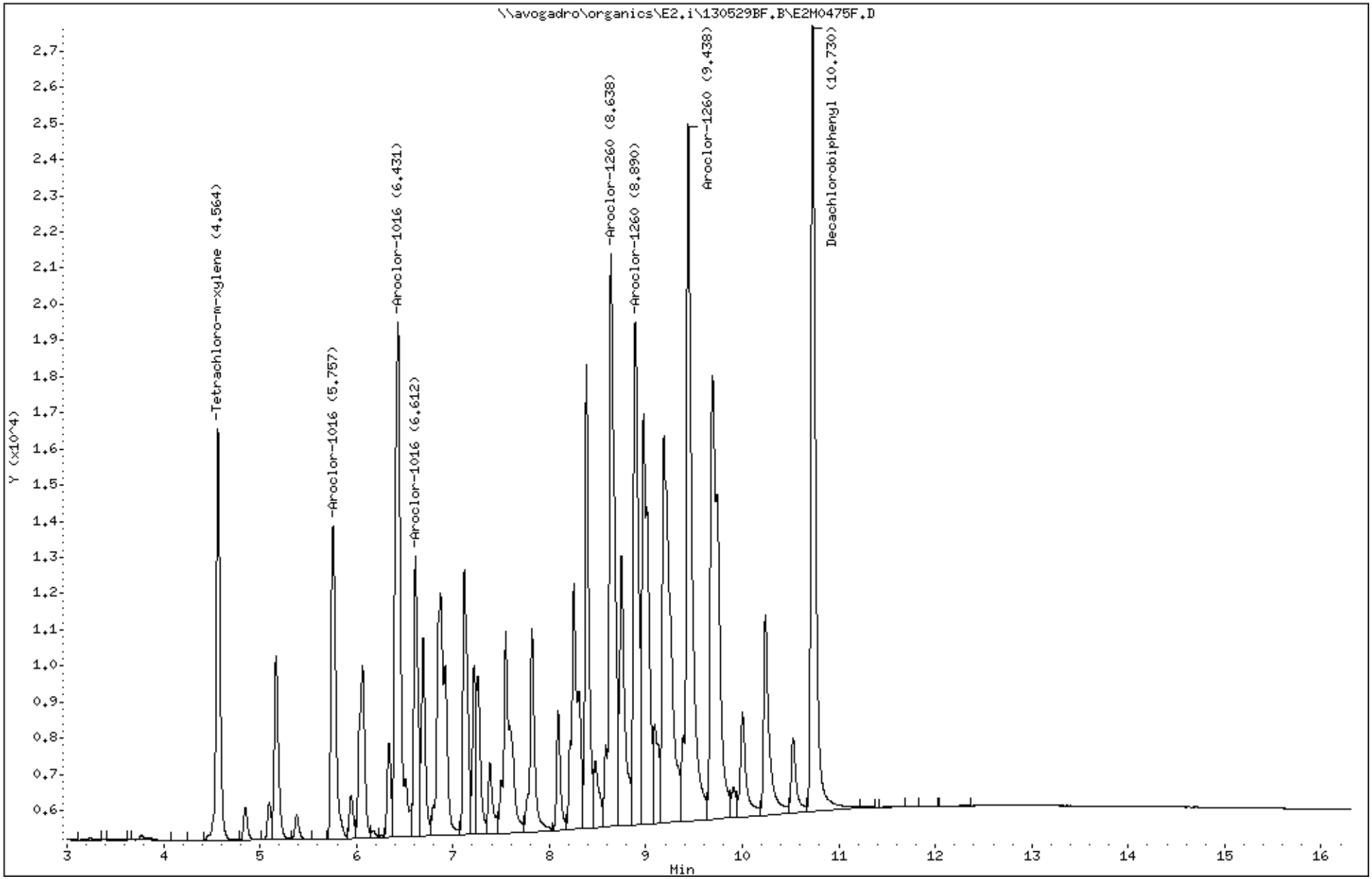
	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$	1 Tetrachloro-m-xylene					CAS #: 877-09-8			
	4.564	4.565	-0.001	11372	0.02000	0.020			(a)
	5 Aroclor-1016					CAS #: 12674-11-2			
	5.756	5.756	0.000	8641	0.40000	0.38	80.00- 120.00	100.00	(a)
	6.430	6.431	-0.001	14257	0.40000	0.38	154.92- 194.92	164.99	
	6.611	6.611	0.000	7712	0.40000	0.38	75.76- 115.76	89.25	
	Average of Peak Amounts =					0.38000			
$	11 Decachlorobiphenyl					CAS #: 2051-24-3			
	10.729	10.728	0.001	738409	0.04000	0.038			(a)
	9 Aroclor-1260					CAS #: 11096-82-5			
	8.638	8.635	0.003	15813	0.40000	0.38	80.00- 120.00	100.00	(a)
	8.890	8.885	0.005	13885	0.40000	0.38	73.67- 113.67	87.81	
	9.438	9.435	0.003	19247	0.40000	0.37	102.04- 142.04	121.72	
	Average of Peak Amounts =					0.37667			

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0475F.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0475F.D
Date : 30-MAY-2013 01:34
Client ID: AR16603D2 Instrument: E2.i
Sample Info: AR16603D2,AR16603D2,,ar1660.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: TM
Column phase: CLPPest Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0475R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0475R.D
Lab Smp Id: AR16603D2 Client Smp ID: AR16603D2
Inj Date : 30-MAY-2013 01:34
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16603D2,AR16603D2,,ar1660.sub,,
Misc Info : 1,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:34 Cal File: E2M0475R.D
Als bottle: 30 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

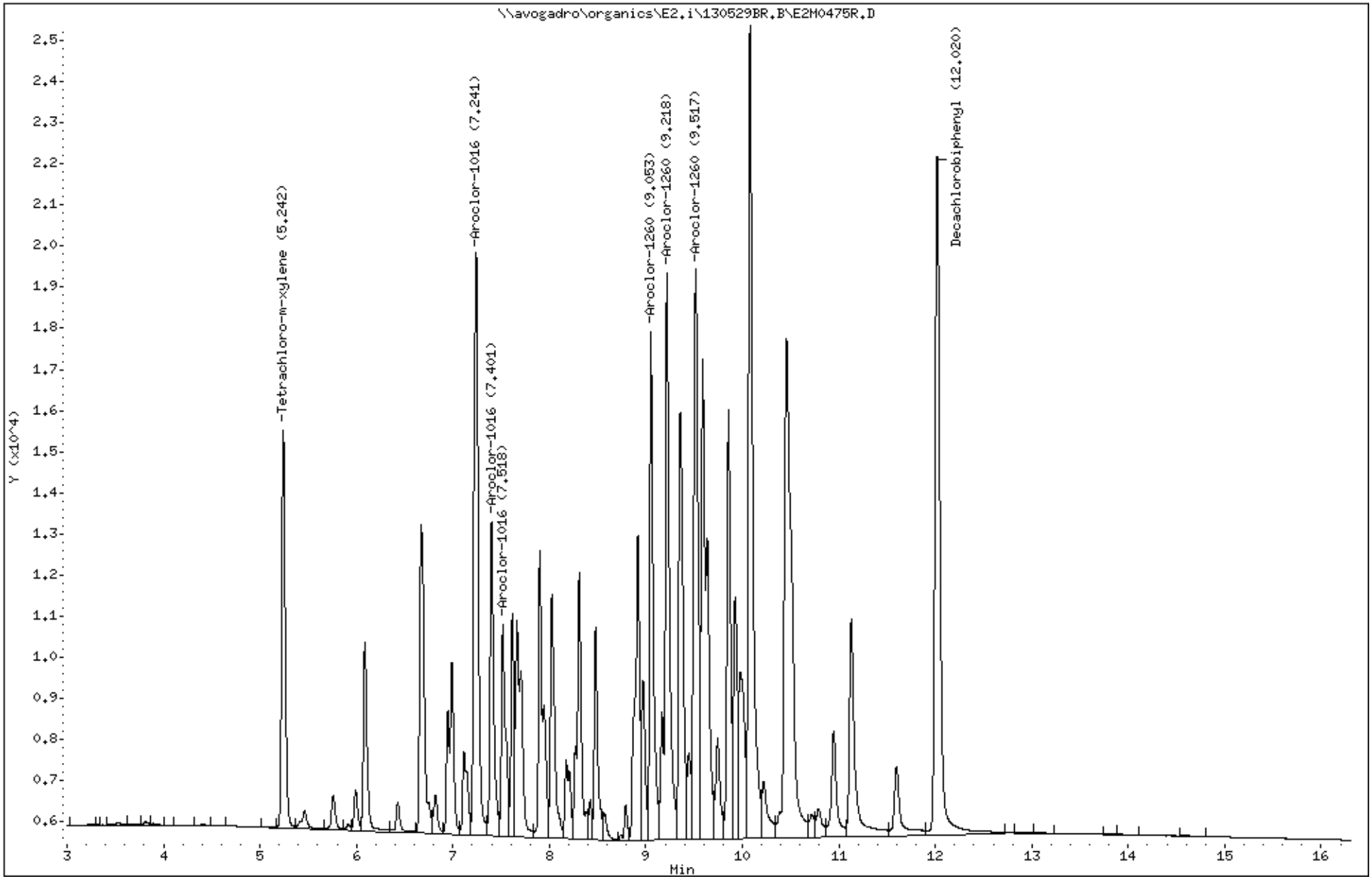
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.242	5.242	0.000	9668	0.02000	0.020			(a)
6 Aroclor-1016					CAS #: 12674-11-2			
7.240	7.240	0.000	14282	0.40000	0.35	80.00- 120.00	100.00	(a)
7.401	7.400	0.001	7584	0.40000	0.34	33.79- 73.79	53.10	
7.517	7.516	0.001	5146	0.40000	0.34	16.38- 56.38	36.03	
Average of Peak Amounts =					0.34333			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
12.019	12.018	0.001	16474	0.04000	0.039			(a)
8 Aroclor-1260					CAS #: 11096-82-5			
9.052	9.051	0.001	12026	0.40000	0.35	80.00- 120.00	100.00	(a)
9.217	9.215	0.002	13793	0.40000	0.36	96.25- 136.25	114.69	
9.516	9.514	0.002	13877	0.40000	0.36	98.14- 138.14	115.39	
Average of Peak Amounts =					0.35667			

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0475R.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0475R.D
Date : 30-MAY-2013 01:34
Client ID: AR16603D2
Instrument: E2.i
Sample Info: AR16603D2,AR16603D2,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0476F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0476F.D
Lab Smp Id: AR16604D2 Client Smp ID: AR16604D2
Inj Date : 30-MAY-2013 01:54
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16604D2,AR16604D2,,ar1660.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:54 Cal File: E2M0476F.D
Als bottle: 31 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

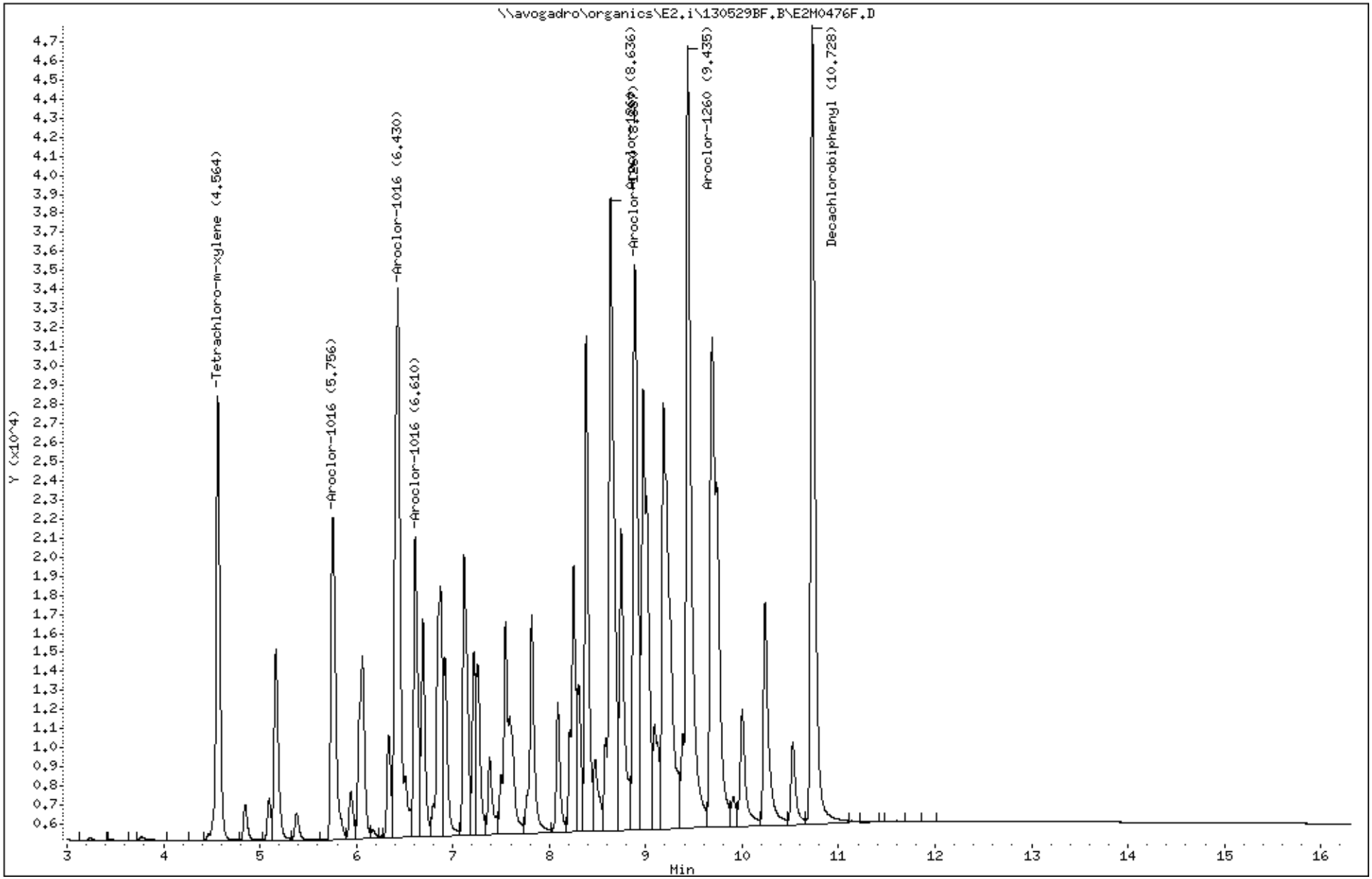
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.563	4.565	-0.002	23227	0.04000	0.040			(a)
5 Aroclor-1016						CAS #: 12674-11-2		
5.755	5.756	-0.001	16818	0.80000	0.74	80.00- 120.00	100.00	(a)
6.429	6.431	-0.002	28843	0.80000	0.77	154.92- 194.92	171.50	
6.610	6.611	-0.001	15625	0.80000	0.78	75.76- 115.76	92.91	
Average of Peak Amounts =					0.76333			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.727	10.728	-0.001	1389737	0.08000	0.071			
9 Aroclor-1260						CAS #: 11096-82-5		
8.636	8.635	0.001	32930	0.80000	0.79	80.00- 120.00	100.00	(a)
8.886	8.885	0.001	29541	0.80000	0.81	73.67- 113.67	89.71	
9.435	9.435	0.000	40926	0.80000	0.79	102.04- 142.04	124.28	
Average of Peak Amounts =					0.79667			

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0476F.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0476F.D
Date : 30-MAY-2013 01:54
Client ID: AR16604D2
Instrument: E2.i
Sample Info: AR16604D2,AR16604D2,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0476R.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0476R.D
Lab Smp Id: AR16604D2 Client Smp ID: AR16604D2
Inj Date : 30-MAY-2013 01:54
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16604D2,AR16604D2,,ar1660.sub,,
Misc Info : 1,4,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 01:54 Cal File: E2M0476R.D
Als bottle: 31 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

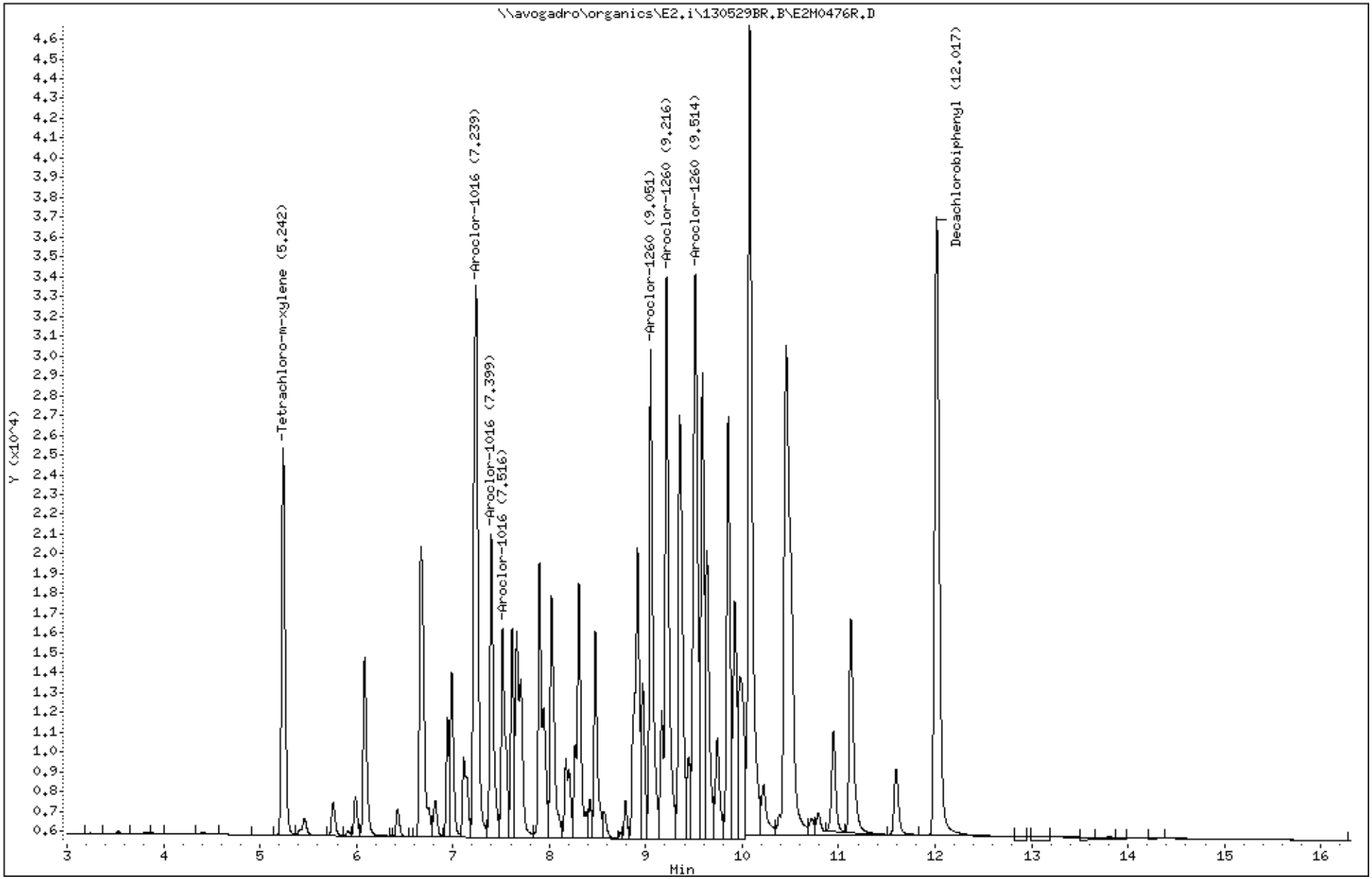
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.241	5.242	-0.001	19487	0.04000	0.040			(a)
6 Aroclor-1016						CAS #: 12674-11-2		
7.239	7.240	-0.001	28127	0.80000	0.71	80.00- 120.00	100.00	(a)
7.399	7.400	-0.001	15310	0.80000	0.71	33.79- 73.79	54.43	
7.515	7.516	-0.001	10448	0.80000	0.71	16.38- 56.38	37.15	
Average of Peak Amounts =					0.71000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.016	12.018	-0.002	31192	0.08000	0.075			
8 Aroclor-1260						CAS #: 11096-82-5		
9.051	9.051	0.000	24664	0.80000	0.73	80.00- 120.00	100.00	(a)
9.215	9.215	0.000	28112	0.80000	0.74	96.25- 136.25	113.98	
9.513	9.514	-0.001	28455	0.80000	0.75	98.14- 138.14	115.37	
Average of Peak Amounts =					0.74000			

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0476R.D
Report Date: 04-Jun-2013 10:25

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0476R.D
Date : 30-MAY-2013 01:54
Client ID: AR16604D2
Instrument: E2.i
Sample Info: AR16604D2,AR16604D2,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0477F.D
Report Date: 04-Jun-2013 10:25

Spectrum Analytical, Inc. RI Division

Quantitation Report

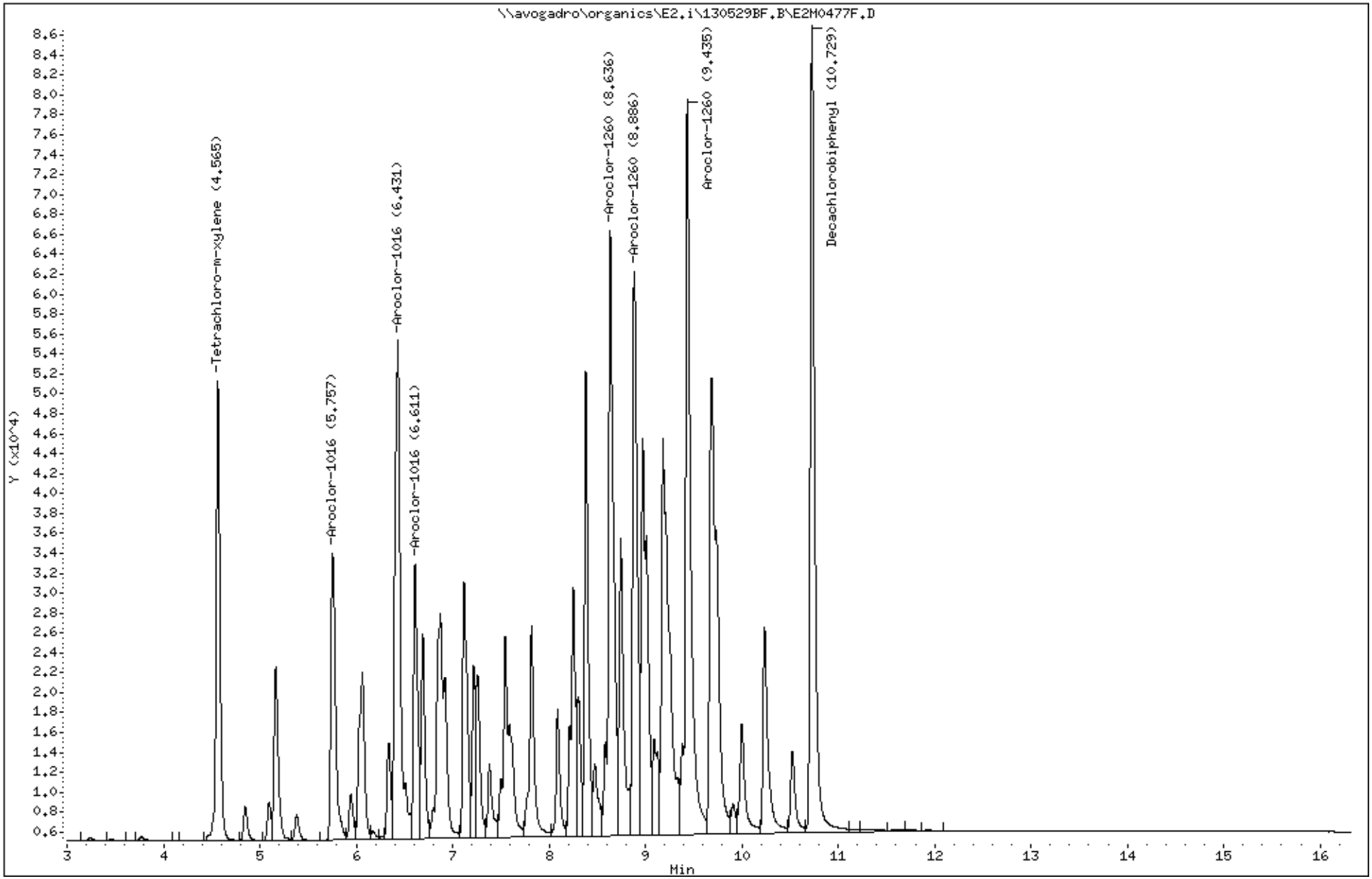
Data file : \\avogadro\organics\E2.i\130529BF.B\E2M0477F.D
Lab Smp Id: AR16605D2 Client Smp ID: AR16605D2
Inj Date : 30-MAY-2013 02:14
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16605D2,AR16605D2,,ar1660.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BF.B\E2_LL_PCB_F.m
Meth Date : 30-May-2013 12:49 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 32 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1	Tetrachloro-m-xylene					CAS #: 877-09-8		
	4.565	4.565	0.000	46154	0.08000	0.080		
5	Aroclor-1016					CAS #: 12674-11-2		
	5.756	5.756	0.000	28684	1.60000	1.3	80.00- 120.00	100.00
	6.431	6.431	0.000	50174	1.60000	1.3	154.92- 194.92	174.92
	6.611	6.611	0.000	27468	1.60000	1.4	75.76- 115.76	95.76
	Average of Peak Amounts =				1.33333			
$ 11	Decachlorobiphenyl					CAS #: 2051-24-3		
	10.728	10.728	0.000	2673117	0.16000	0.14		
9	Aroclor-1260					CAS #: 11096-82-5		
	8.635	8.635	0.000	60419	1.60000	1.4	80.00- 120.00	100.00
	8.885	8.885	0.000	56594	1.60000	1.6	73.67- 113.67	93.67
	9.435	9.435	0.000	73734	1.60000	1.4	102.04- 142.04	122.04
	Average of Peak Amounts =				1.46667			

Data File: \\avogadro\organics\E2.i\130529BF.B\E2M0477F.D
Date : 30-MAY-2013 02:14
Client ID: AR16605D2 Instrument: E2.i
Sample Info: AR16605D2,AR16605D2,,ar1660.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: TM
Column phase: CLPPest Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0477R.D
Report Date: 04-Jun-2013 10:26

Spectrum Analytical, Inc. RI Division

Quantitation Report

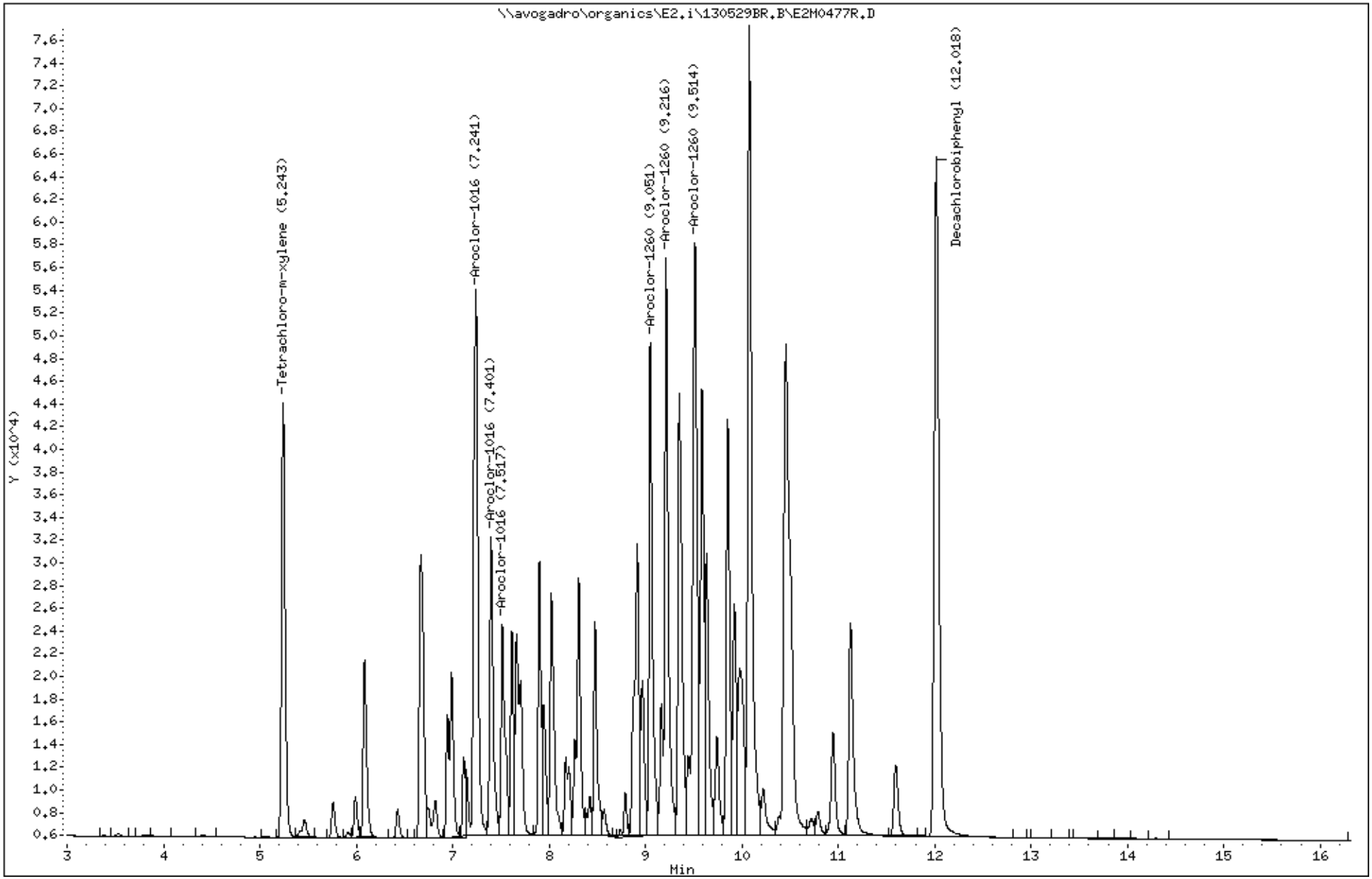
Data file : \\avogadro\organics\E2.i\130529BR.B\E2M0477R.D
Lab Smp Id: AR16605D2 Client Smp ID: AR16605D2
Inj Date : 30-MAY-2013 02:14
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16605D2,AR16605D2,,ar1660.sub,,
Misc Info : 1,5,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130529BR.B\E2_LL_PCB_R.m
Meth Date : 30-May-2013 12:59 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 32 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

				AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.242	5.242	0.000	38273	0.08000	0.078		
6 Aroclor-1016						CAS #: 12674-11-2	
7.240	7.240	0.000	48385	1.60000	1.3	80.00- 120.00	100.00
7.400	7.400	0.000	26005	1.60000	1.2	33.79- 73.79	53.75
7.516	7.516	0.000	18528	1.60000	1.3	16.38- 56.38	38.29
Average of Peak Amounts =					1.26667		
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
12.018	12.018	0.000	59896	0.16000	0.14		
8 Aroclor-1260						CAS #: 11096-82-5	
9.051	9.051	0.000	43391	1.60000	1.3	80.00- 120.00	100.00
9.215	9.215	0.000	50438	1.60000	1.4	96.25- 136.25	116.24
9.514	9.514	0.000	52293	1.60000	1.4	98.14- 138.14	120.52
Average of Peak Amounts =					1.36667		

Data File: \\avogadro\organics\E2.i\130529BR.B\E2M0477R.D
Date : 30-MAY-2013 02:14
Client ID: AR16605D2
Instrument: E2.i
Sample Info: AR16605D2,AR16605D2,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619F.B\E2M1005F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130619F.B\E2M1005F.D
Lab Smp Id: AR16603DK Client Smp ID: AR16603DK
Inj Date : 19-JUN-2013 09:31
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16603DK,AR16603DK,,ar1660.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

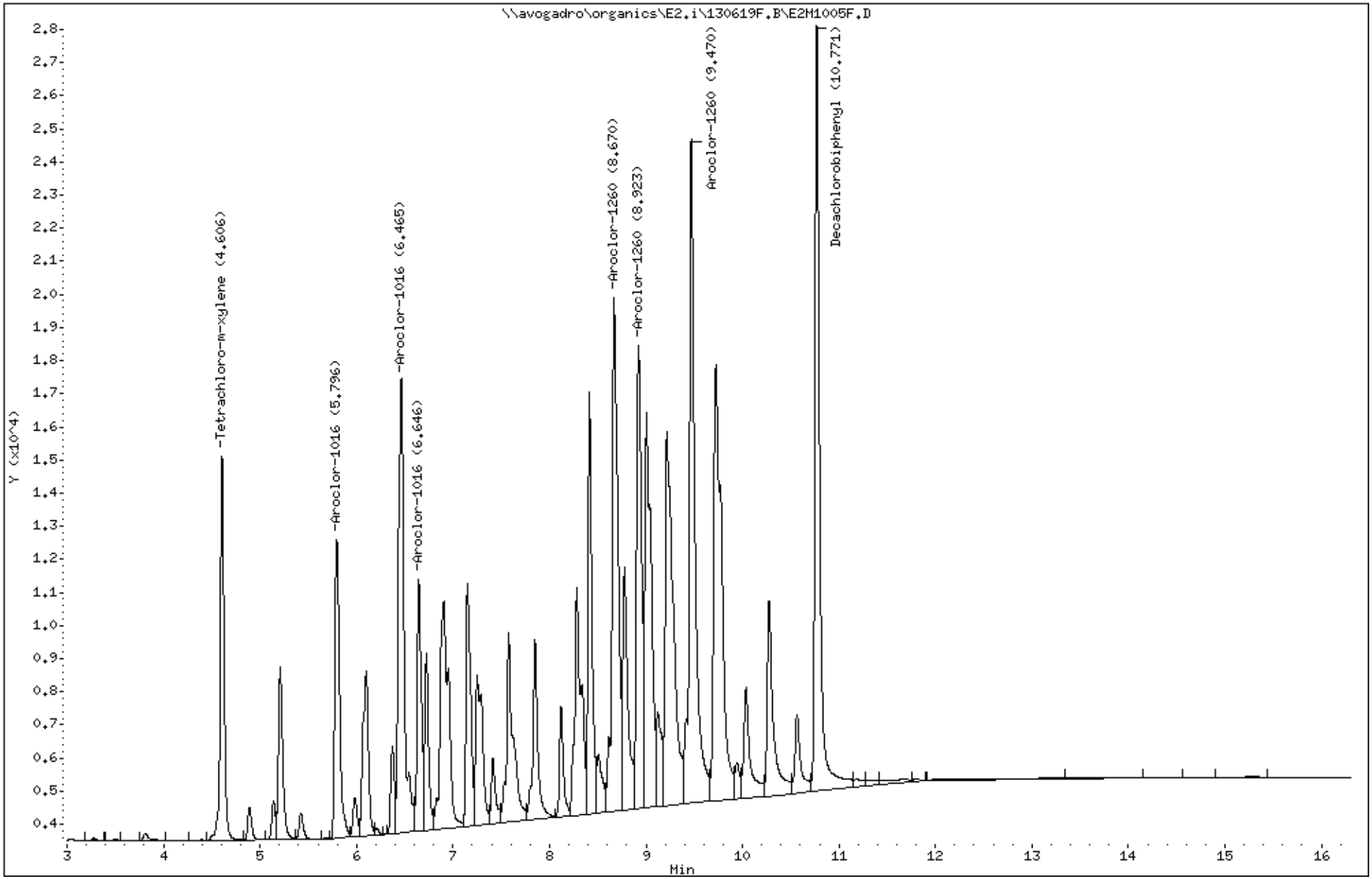
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.606	4.565	0.041	11577	0.02000	0.020			(a)
5 Aroclor-1016						CAS #: 12674-11-2		
5.795	5.756	0.039	9001	0.40000	0.40	80.00- 120.00	100.00	(a)
6.464	6.431	0.033	13748	0.40000	0.37	133.57- 173.57	152.74	
6.645	6.611	0.034	7567	0.40000	0.38	63.35- 103.35	84.07	
Average of Peak Amounts =					0.38333			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.770	10.728	0.042	800020	0.04000	0.041			(a)
9 Aroclor-1260						CAS #: 11096-82-5		
8.669	8.635	0.034	15419	0.40000	0.37	80.00- 120.00	100.00	(a)
8.923	8.885	0.038	13980	0.40000	0.38	73.17- 113.17	90.67	
9.469	9.435	0.034	19975	0.40000	0.38	114.20- 154.20	129.55	
Average of Peak Amounts =					0.37667			

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1005F.D
Report Date: 19-Jun-2013 16:05

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1005F.D
Date : 19-JUN-2013 09:31
Client ID: AR16603DK
Instrument: E2.i
Sample Info: AR16603DK,AR16603DK,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1005R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130619R.B\E2M1005R.D
Lab Smp Id: AR16603DK Client Smp ID: AR16603DK
Inj Date : 19-JUN-2013 09:31
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16603DK,AR16603DK,,ar1660.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

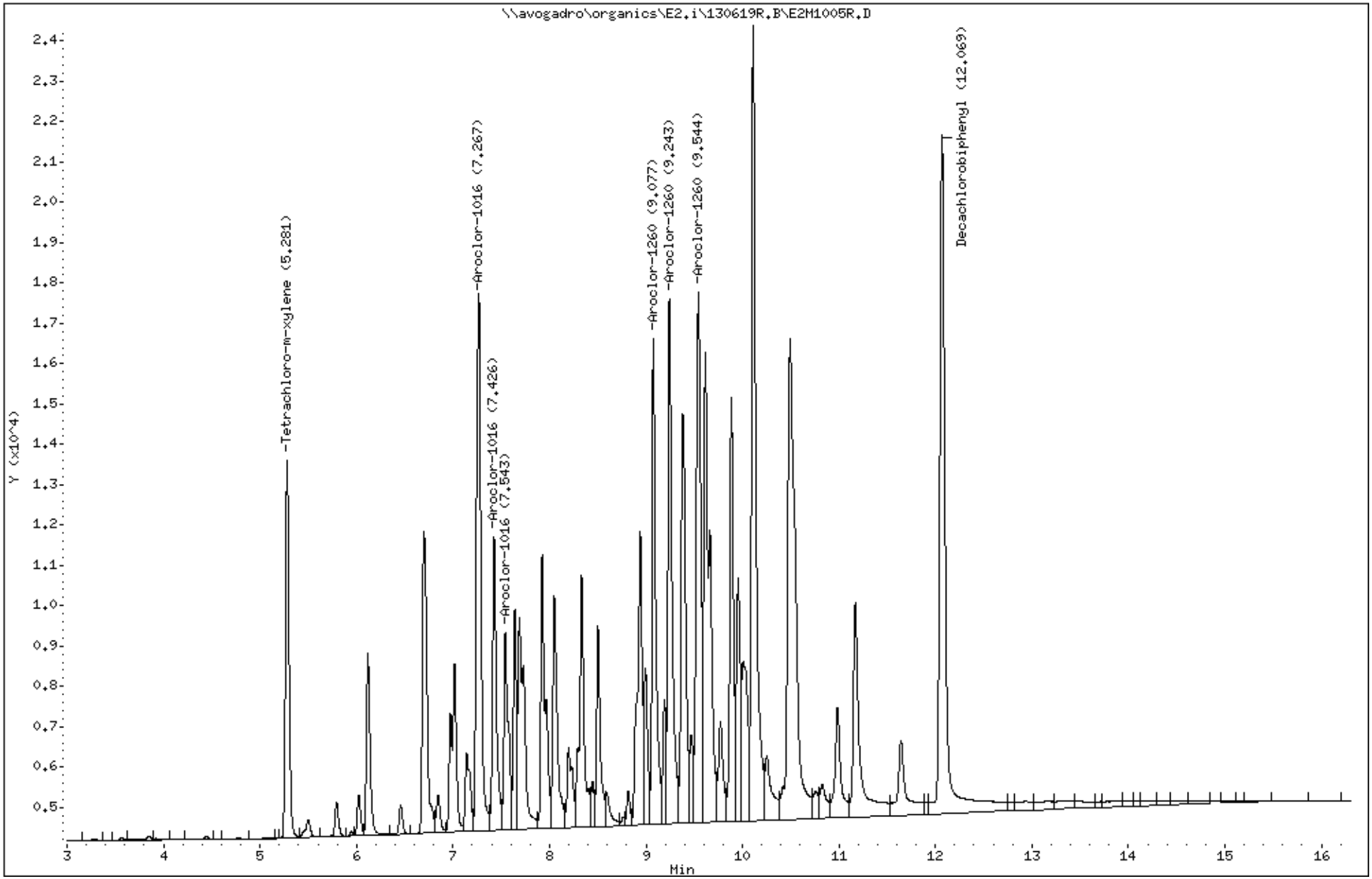
			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
5.280	5.242	0.038	9323	0.02000	0.019		(a)
6 Aroclor-1016					CAS #: 12674-11-2		
7.266	7.240	0.026	13418	0.40000	0.35	80.00- 120.00	100.00(a)
7.426	7.400	0.026	7203	0.40000	0.35	71.09- 111.09	53.68
7.542	7.516	0.026	4846	0.40000	0.34	68.12- 108.12	36.12
Average of Peak Amounts =					0.34667		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
12.069	12.018	0.051	16832	0.04000	0.040		(a)
8 Aroclor-1260					CAS #: 11096-82-5		
9.076	9.051	0.025	11971	0.40000	0.36	80.00- 120.00	100.00(aM)M6 TM 06/19
9.243	9.215	0.028	12949	0.40000	0.35	88.27- 128.27	108.17
9.543	9.514	0.029	13154	0.40000	0.35	92.32- 132.32	109.88
Average of Peak Amounts =					0.35333		

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1005R.D
Report Date: 19-Jun-2013 16:06

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1005R.D
Date : 19-JUN-2013 09:31
Client ID: AR16603DK
Instrument: E2.i
Sample Info: AR16603DK,AR16603DK,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619F.B\E2M1020F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130619F.B\E2M1020F.D
Lab Smp Id: AR16603DL Client Smp ID: AR16603DL
Inj Date : 19-JUN-2013 14:35
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16603DL,AR16603DL,,ar1660.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

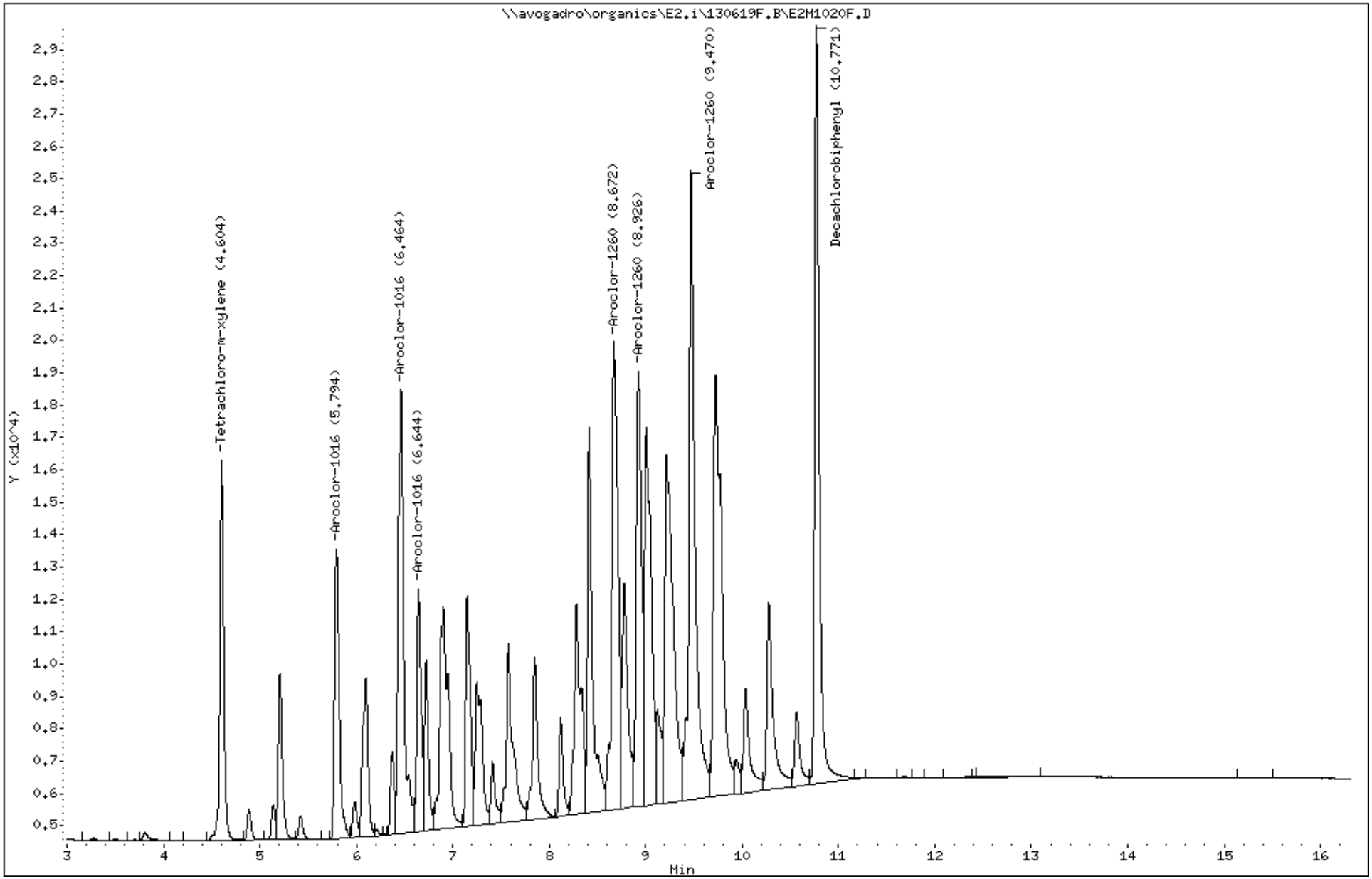
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.603	4.565	0.038	11700	0.02000	0.020			(a)
5 Aroclor-1016						CAS #: 12674-11-2		
5.794	5.756	0.038	8947	0.40000	0.40	80.00- 120.00	100.00	(a)
6.463	6.431	0.032	13740	0.40000	0.37	133.57- 173.57	153.57	
6.644	6.611	0.033	7457	0.40000	0.37	63.35- 103.35	83.35	
Average of Peak Amounts =					0.38000			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
10.770	10.728	0.042	798452	0.04000	0.041			(a)
9 Aroclor-1260						CAS #: 11096-82-5		
8.671	8.635	0.036	14427	0.40000	0.34	80.00- 120.00	100.00	(a)
8.925	8.885	0.040	13442	0.40000	0.37	73.17- 113.17	93.17	
9.470	9.435	0.035	19361	0.40000	0.37	114.20- 154.20	134.20	
Average of Peak Amounts =					0.36000			

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1020F.D
Report Date: 19-Jun-2013 16:05

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1020F.D
Date : 19-JUN-2013 14:35
Client ID: AR16603DL
Instrument: E2.i
Sample Info: AR16603DL,AR16603DL,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1020R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130619R.B\E2M1020R.D
Lab Smp Id: AR16603DL Client Smp ID: AR16603DL
Inj Date : 19-JUN-2013 14:35
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : AR16603DL,AR16603DL,,ar1660.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

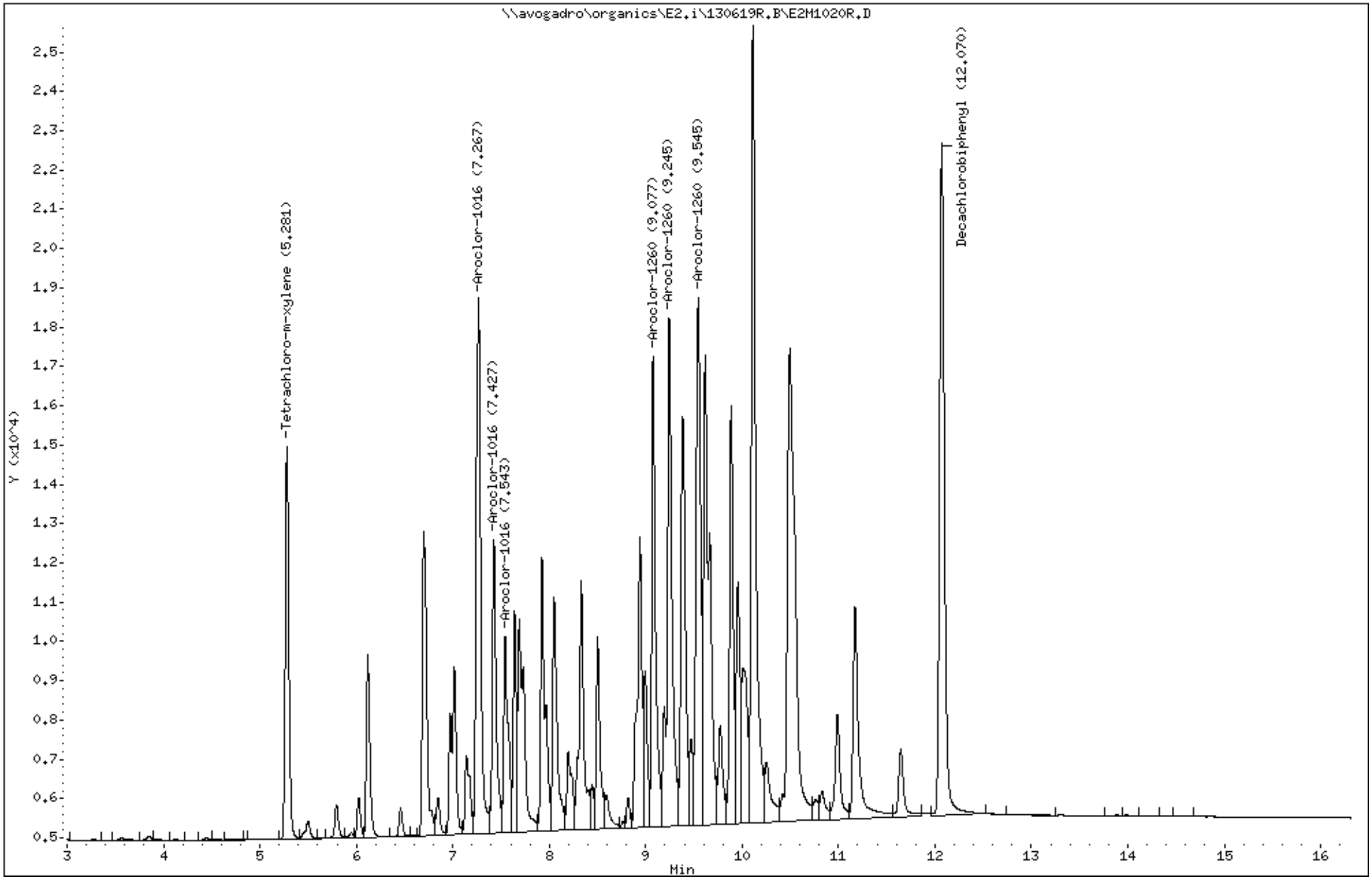
				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.280	5.242	0.038	9924	0.02000	0.020			(a)
6 Aroclor-1016						CAS #: 12674-11-2		
7.266	7.240	0.026	13714	0.40000	0.36	80.00- 120.00	100.00	(a)
7.426	7.400	0.026	7401	0.40000	0.36	71.09- 111.09	53.97	
7.543	7.516	0.027	4970	0.40000	0.35	68.12- 108.12	36.24	
Average of Peak Amounts =					0.35667			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.070	12.018	0.052	17127	0.04000	0.040			(a)
8 Aroclor-1260						CAS #: 11096-82-5		
9.077	9.051	0.026	11944	0.40000	0.36	80.00- 120.00	100.00	(a)
9.244	9.215	0.029	12932	0.40000	0.35	88.27- 128.27	108.27	
9.545	9.514	0.031	13415	0.40000	0.36	92.32- 132.32	112.32	
Average of Peak Amounts =					0.35667			

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1020R.D
Report Date: 19-Jun-2013 16:06

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1020R.D
Date : 19-JUN-2013 14:35
Client ID: AR16603DL
Instrument: E2.i
Sample Info: AR16603DL,AR16603DL,,ar1660.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-72289

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-72289

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E2M1009F.D/E2M1009R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1009F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

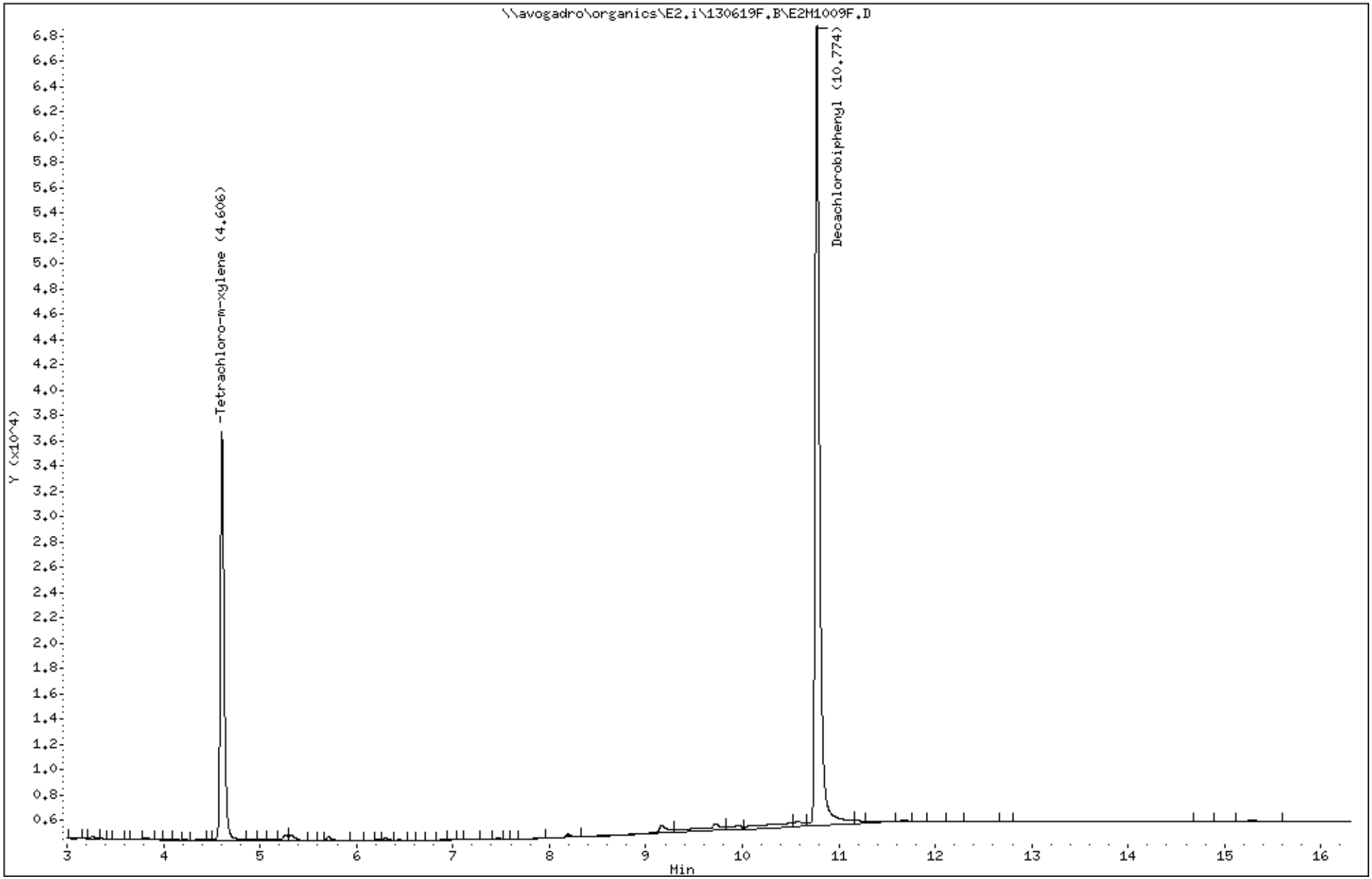
Data file : \\avogadro\organics\E2.i\130619F.B\E2M1009F.D
Lab Smp Id: MB-72289 Client Smp ID: MB-72289
Inj Date : 19-JUN-2013 10:58
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : MB-72289,MB-72289,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.606	4.565	0.041	32279	0.05585		19	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
10.773	10.728	0.045	2096488	0.10703		36	

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1009F.D
Date : 19-JUN-2013 10:58
Client ID: MB-72289 Instrument: E2.i
Sample Info: MB-72289,MB-72289,72289,8082A.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: LIMS
Column phase: CLPPest Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1009R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

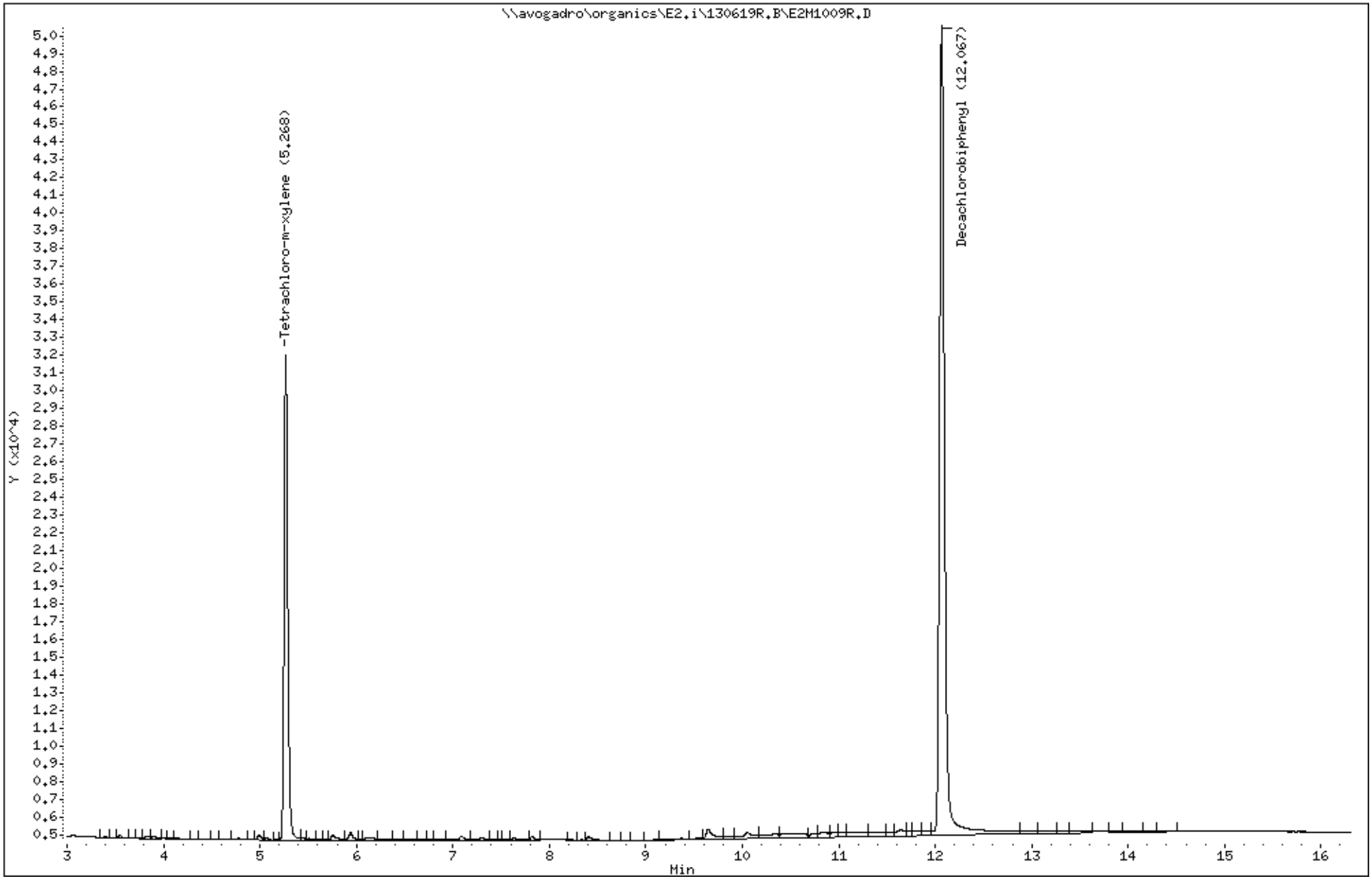
Data file : \\avogadro\organics\E2.i\130619R.B\E2M1009R.D
Lab Smp Id: MB-72289 Client Smp ID: MB-72289
Inj Date : 19-JUN-2013 10:58
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : MB-72289,MB-72289,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.267	5.242	0.025	27214	0.05524		18	
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
12.067	12.018	0.049	45548	0.10744		36	

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1009R.D
Date : 19-JUN-2013 10:58
Client ID: MB-72289
Instrument: E2.i
Sample Info: MB-72289,MB-72289,72289,8082A.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-72289(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-72289

Sample wt/vol: 30 (g/mL) G Lab File ID: E2M1010F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	120	P

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-72289(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-72289

Sample wt/vol: 30 (g/mL) G Lab File ID: E2M1010R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	110	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	84	P

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1010F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

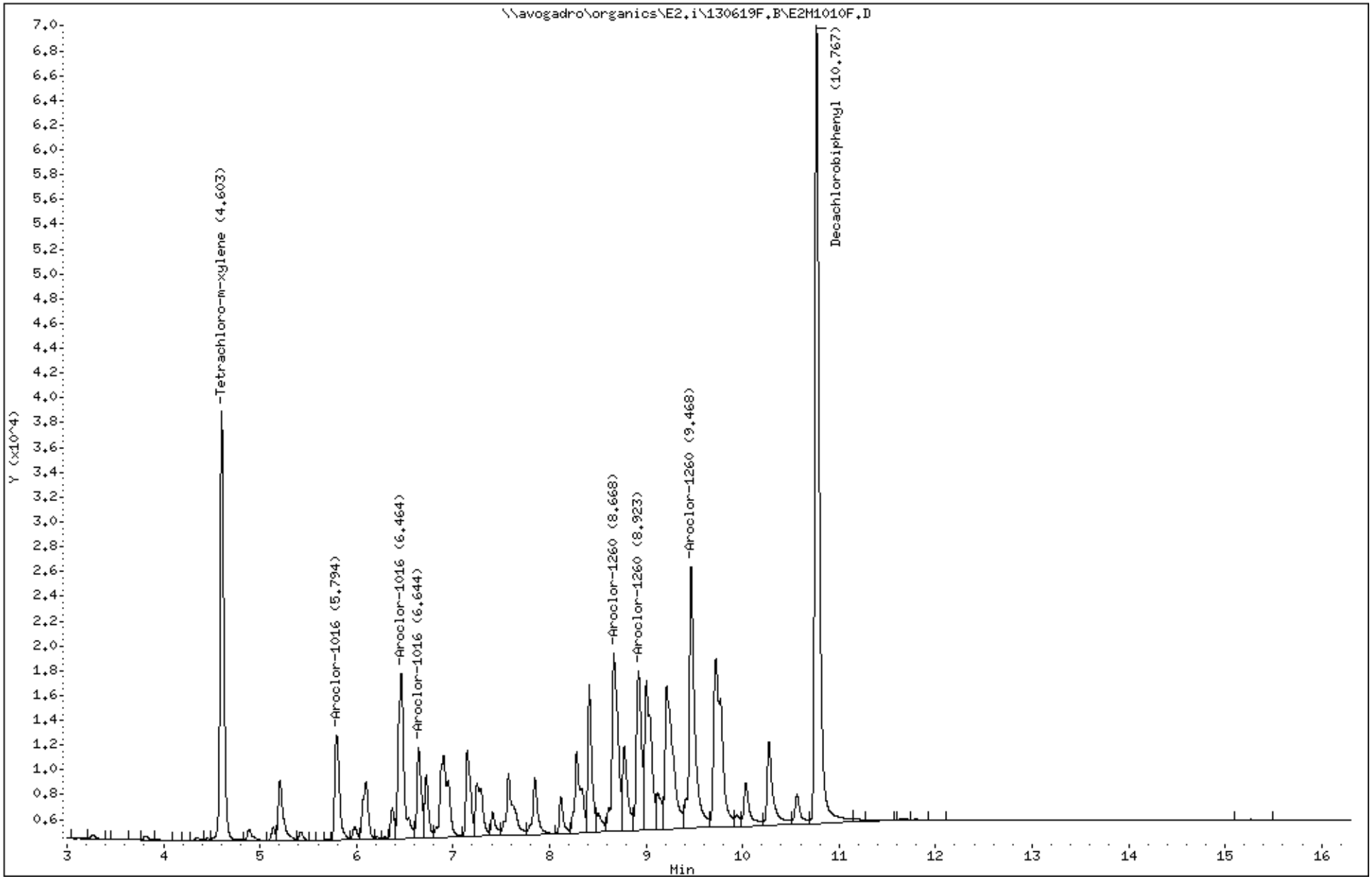
Data file : \\avogadro\organics\E2.i\130619F.B\E2M1010F.D
Lab Smp Id: LCS-72289 Client Smp ID: LCS-72289
Inj Date : 19-JUN-2013 11:17
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : LCS-72289,LCS-72289,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.603	4.565	0.038	34514	0.05971	20		
5 Aroclor-1016					CAS #: 12674-11-2		
5.794	5.756	0.038	8495	0.37550	120	80.00- 120.00	100.00
6.463	6.431	0.032	13313	0.35765	120	133.57- 173.57	156.72
6.644	6.611	0.033	7250	0.36122	120	63.35- 103.35	85.34
	Average of Peak Concentrations =				120		
9 Aroclor-1260					CAS #: 11096-82-5		
8.668	8.635	0.033	14337	0.34369	110	80.00- 120.00	100.00
8.922	8.885	0.037	12817	0.35258	120	73.17- 113.17	89.40
9.467	9.435	0.032	21042	0.40600	140	114.20- 154.20	146.77
	Average of Peak Concentrations =				120		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
10.767	10.728	0.039	2101100	0.10726	36		

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1010F.D
Date : 19-JUN-2013 11:17
Client ID: LCS-72289
Instrument: E2.i
Sample Info: LCS-72289,LCS-72289,72289,8082A.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPest
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1010R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

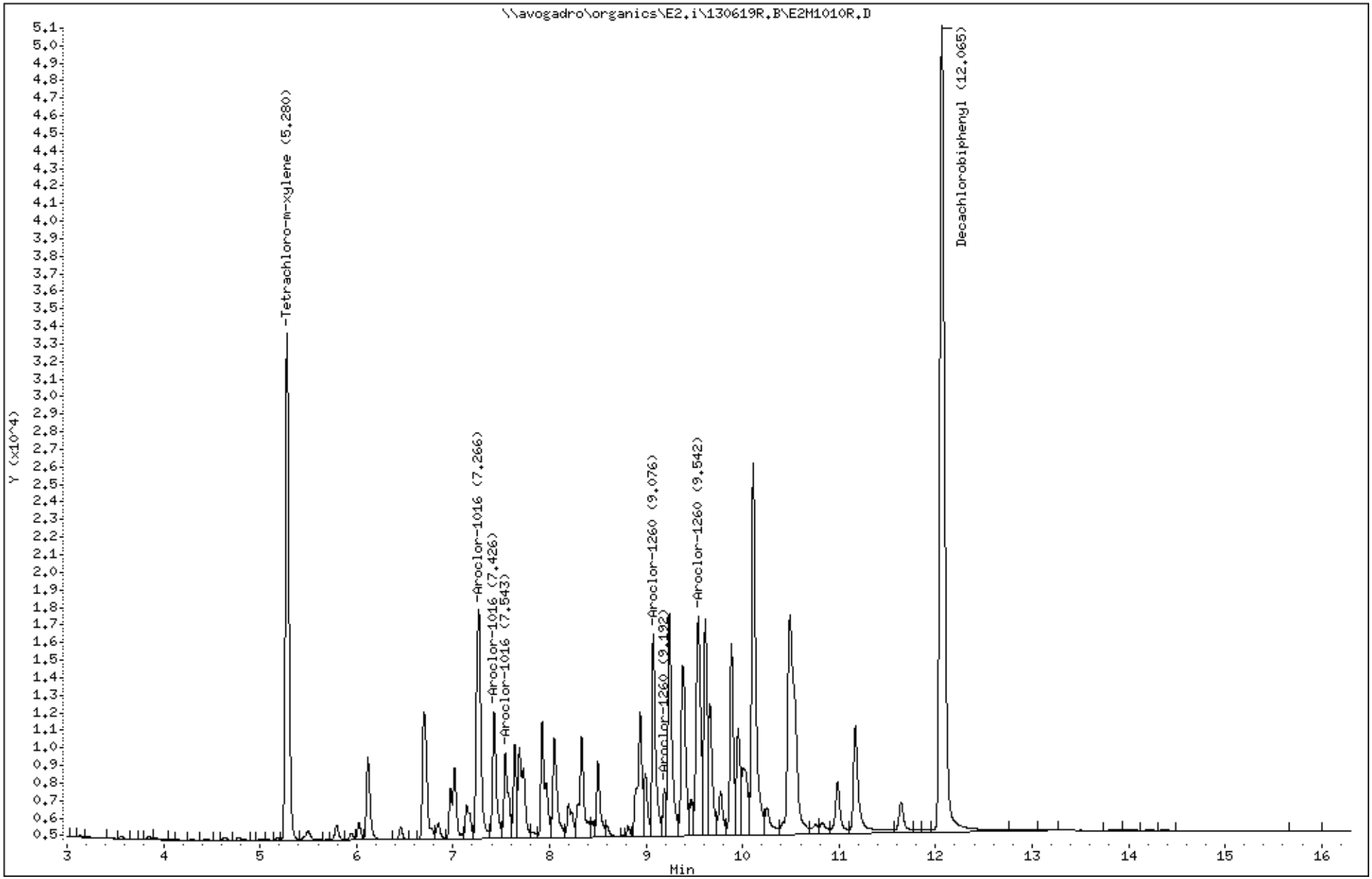
Data file : \\avogadro\organics\E2.i\130619R.B\E2M1010R.D
Lab Smp Id: LCS-72289 Client Smp ID: LCS-72289
Inj Date : 19-JUN-2013 11:17
Operator : TM   SRC: LIMS Inst ID: E2.i
Smp Info : LCS-72289,LCS-72289,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
5.279	5.242	0.037	28701	0.05826	19		
6 Aroclor-1016					CAS #: 12674-11-2		
7.266	7.240	0.026	13136	0.34488	110	80.00- 120.00	100.00
7.426	7.400	0.026	7121	0.34272	110	71.09- 111.09	54.21
7.542	7.516	0.026	4790	0.33709	110	68.12- 108.12	36.46
Average of Peak Concentrations =					110		
8 Aroclor-1260					CAS #: 11096-82-5		
9.075	9.051	0.024	11433	0.34866	120	80.00- 120.00	100.00
9.191	9.215	-0.024	2716	0.07362	24	88.27- 128.27	23.76
9.542	9.514	0.028	12468	0.33543	110	92.32- 132.32	109.05
Average of Peak Concentrations =					84		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
12.065	12.018	0.047	45953	0.10840	36		

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1010R.D
Date : 19-JUN-2013 11:17
Client ID: LCS-72289
Instrument: E2.i
Sample Info: LCS-72289,LCS-72289,72289,8082A.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-72289(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-72289

Sample wt/vol: 30 (g/mL) G Lab File ID: E2M1011F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	130	P

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-72289(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0975 Mod. Ref No.: SDG No.: SM0975

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-72289

Sample wt/vol: 30 (g/mL) G Lab File ID: E2M1011R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 06/18/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/19/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	110	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	86	P

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1011F.D
Report Date: 19-Jun-2013 16:05

Spectrum Analytical, Inc. RI Division

Quantitation Report

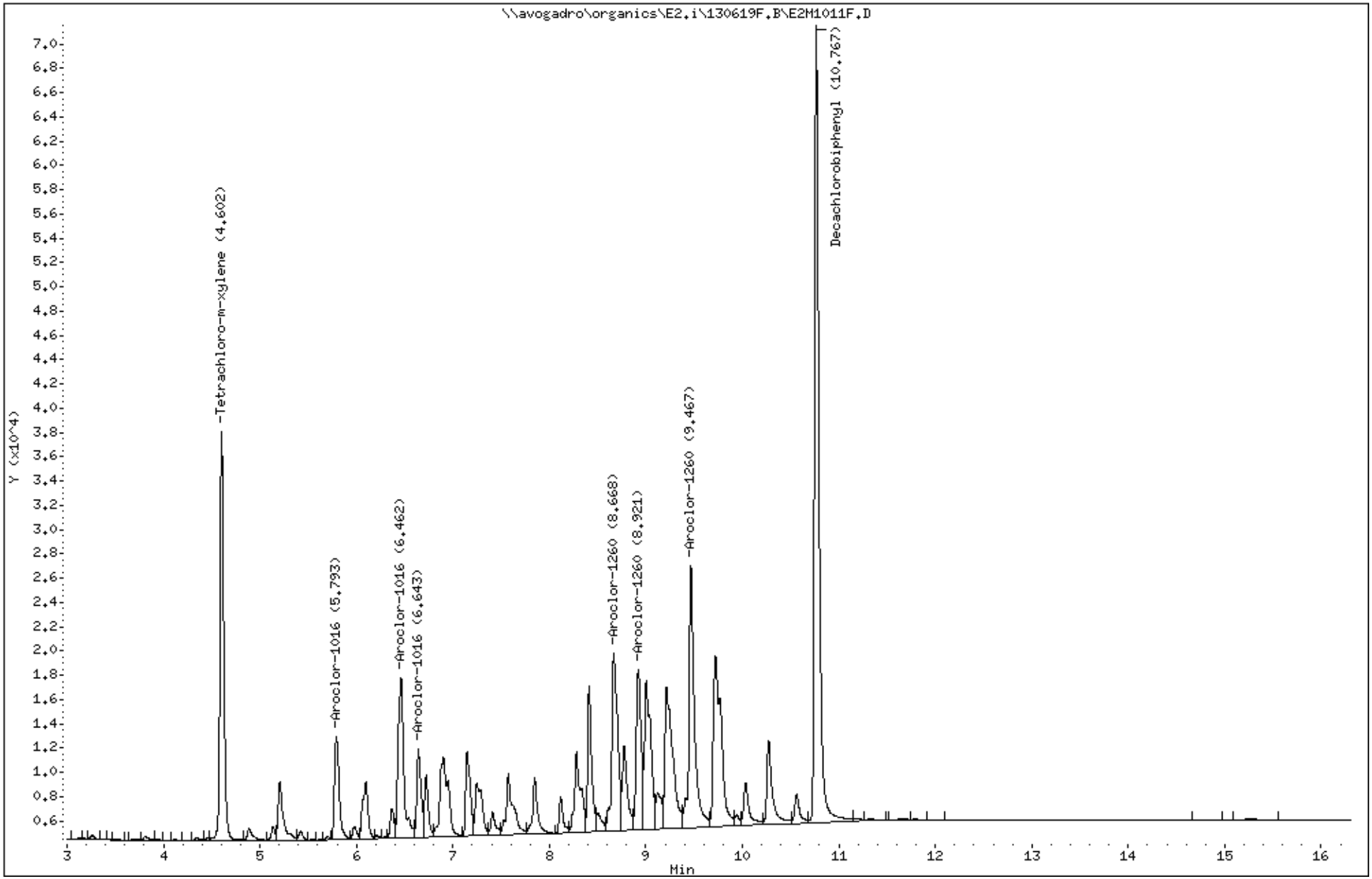
Data file : \\avogadro\organics\E2.i\130619F.B\E2M1011F.D
Lab Smp Id: LCSD-72289 Client Smp ID: LCSD-72289
Inj Date : 19-JUN-2013 11:37
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : LCSD-72289,LCSD-72289,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619F.B\E2_LL_PCB_F.m
Meth Date : 19-Jun-2013 15:07 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477F.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.602	4.565	0.037	33729	0.05835	0.58		
5 Aroclor-1016						CAS #: 12674-11-2	
5.792	5.756	0.036	8435	0.37285	3.7	80.00- 120.00	100.00
6.462	6.431	0.031	13162	0.35360	3.5	133.57- 173.57	156.04
6.642	6.611	0.031	7205	0.35898	3.6	63.35- 103.35	85.42
Average of Peak Concentrations =					3.6		
9 Aroclor-1260						CAS #: 11096-82-5	
8.667	8.635	0.032	14628	0.35067	3.5	80.00- 120.00	100.00
8.921	8.885	0.036	13163	0.36209	3.6	73.17- 113.17	89.98
9.466	9.435	0.031	21498	0.41479	4.1	114.20- 154.20	146.96
Average of Peak Concentrations =					3.8		
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3	
10.766	10.728	0.038	2132848	0.10888	1.1		

Data File: \\avogadro\organics\E2.i\130619F.B\E2M1011F.D
Date : 19-JUN-2013 11:37
Client ID: LCSD-72289 Instrument: E2.i
Sample Info: LCSD-72289,LCSD-72289,72289,8082A.sub,,
Volume Injected (uL): 1.0 Operator: TM SRC: TM
Column phase: CLPPest Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\130619R.B\E2M1011R.D
Report Date: 19-Jun-2013 16:06

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\130619R.B\E2M1011R.D
Lab Smp Id: LCSD-72289 Client Smp ID: LCSD-72289
Inj Date : 19-JUN-2013 11:37
Operator : TM   SRC: TM Inst ID: E2.i
Smp Info : LCSD-72289,LCSD-72289,72289,8082A.sub,,
Misc Info : 2,3,,1
Comment   :
Method   : \\avogadro\organics\E2.i\130619R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2013 15:08 tmcdaniel Quant Type: ESTD
Cal Date : 30-MAY-2013 02:14 Cal File: E2M0477R.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8082A.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

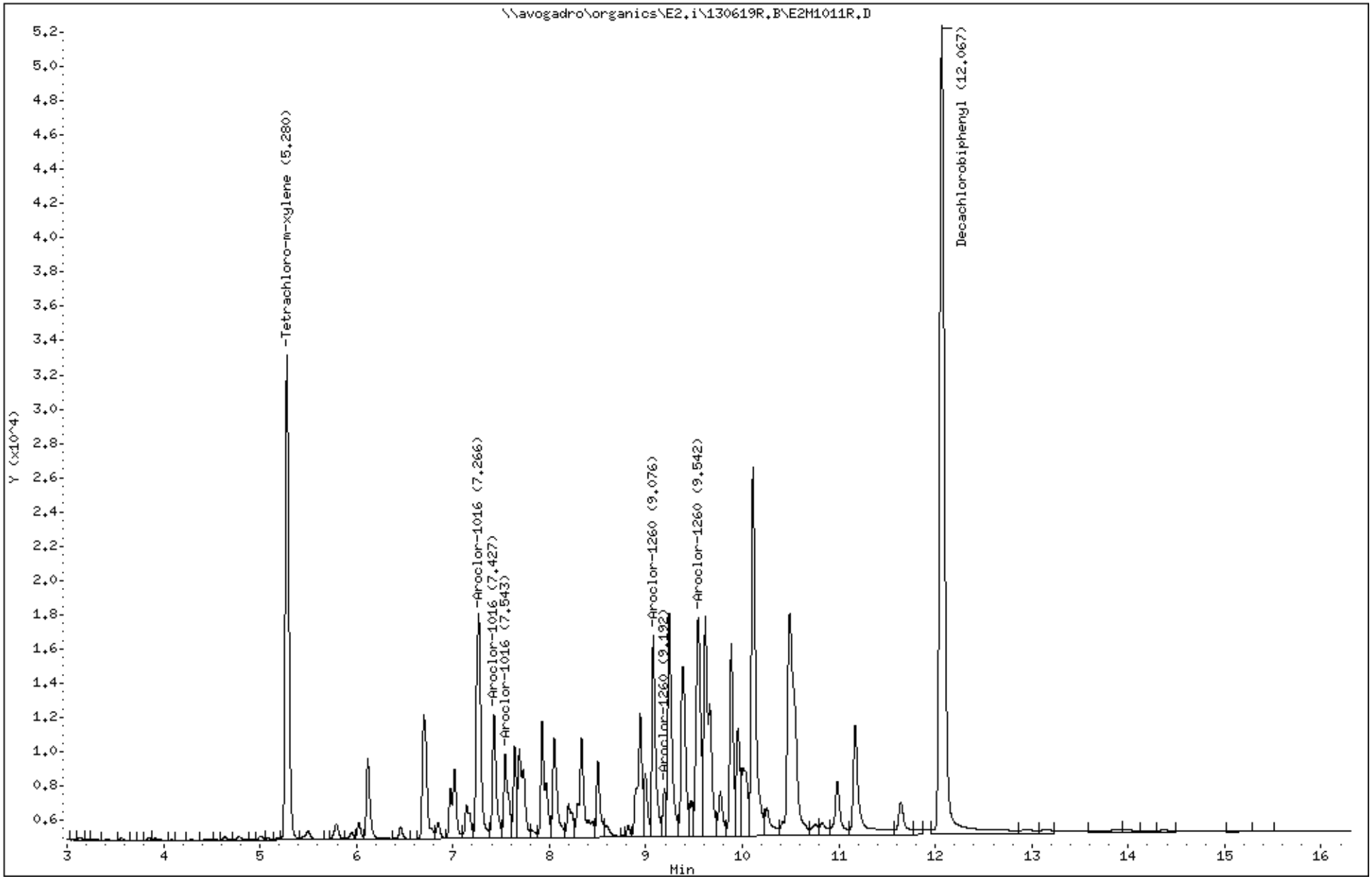
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
5.279	5.242	0.037	28118	0.05708	0.57			(H)
6 Aroclor-1016						CAS #: 12674-11-2		
7.266	7.240	0.026	13189	0.34627	3.5	80.00- 120.00	100.00	
7.426	7.400	0.026	7152	0.34422	3.4	71.09- 111.09	54.23	
7.542	7.516	0.026	4861	0.34208	3.4	68.12- 108.12	36.86	
Average of Peak Concentrations =					3.4			
8 Aroclor-1260						CAS #: 11096-82-5		
9.076	9.051	0.025	11710	0.35710	3.6	80.00- 120.00	100.00	
9.192	9.215	-0.023	2833	0.07679	0.77	88.27- 128.27	24.19	
9.542	9.514	0.028	12741	0.34277	3.4	92.32- 132.32	108.80	
Average of Peak Concentrations =					2.6			
$ 11 Decachlorobiphenyl						CAS #: 2051-24-3		
12.067	12.018	0.049	47134	0.11118	1.1			

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1011R.D
Report Date: 19-Jun-2013 16:06

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\E2.i\130619R.B\E2M1011R.D
Date : 19-JUN-2013 11:37
Client ID: LCSD-72289
Instrument: E2.i
Sample Info: LCSD-72289,LCSD-72289,72289,8082A.sub,,
Volume Injected (uL): 1.0
Operator: TM SRC: TM
Column phase: CLPPestII
Column diameter: 0.32



M0975

Tuesday, June 18, 2013 17:23

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

PREP BATCH REPORT

Prep Start Date: **06/18/2013 08:40**
Prep End Date: **06/18/2013 17:22**
Prep Batch ID: **72289**

Prep Code: **PCB_S_PR**
Technician: **Jodie B Warner**

Prep Type: **SONC/SW3550B**

Prep Factor Units: **mL / g**

QC Matrix: NA2SO4
QC Matrix Lot: 121756

Solvent (1): MECL2
Solvent (1) Lot: DI 364

Solvent (3): HEXANE
Solvent (3) Lot: DH 335

Solvent (5): N/A
Solvent (5) 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: FC003203

Solvent (2): ACE
Solvent (2) Lot: 125597

Solvent (4): N/A
Solvent (4) Lot: N/A

Solvent (6): N/A
Solvent (6) 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

Start Time: N/A
End Time: N/A

Cycles/Hour 0

Sonicator Tuned? Yes

Bath Temp1 (C): N/A

Therm ID1: N/A

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	CNCNTR Unit
MB-72289	BatchQC		30	10	OPW130514A	1			JBW	TM			06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (MB-72289): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			
LCS-72289	BatchQC		30	10	OPW130514A	1	OPW130404A	1	JBW	TM			06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (LCS-72289): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			
LCSD-72289	BatchQC		30	10	OPW130514A	1	OPW130404A	1	JBW	TM			06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (LCSD-72289): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			
M0967-01A	RS-BF-A79-061313	S	30	10	OPW130514A	1			JBW	TM	07/05/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0967-01A): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			
M0967-02A	RS-BF-A81-061313	S	30.3	10	OPW130514A	1			JBW	TM	07/05/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0967-02A): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			
M0975-04A	COMP-A-061313	S	30.3	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-04A): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			
M0975-07A	COMP-B-061313	S	30.1	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-07A): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			
M0975-11A	COMP-C-061313	S	30.4	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-11A): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			
M0975-14A	COMP-D-061313	S	30.1	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-14A): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			
M0975-18A	COMP-E-061313	S	30	10	OPW130514A	1			JBW	TM	06/26/13	01	06/18/13	JKD	R21		☐	☐	Turbo Vap 1
CLEAN UP (M0975-18A): /ACID_130618B (LOT: B00M5126) /jdorsey, /CU_130618B (LOT: MKBH2986V) /jdorsey																			

James Kyle Dorsey — 06/18/2013
Analyst Reviewed — Date

Jodie B Warner — 06/18/2013
Manager Reviewed — Date

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

Logbook ID: 50.0149-05/13

JKD 06/18/13

Percent Moisture and Percent Solids Report

Lab Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
M0975-01A	A-1-3-061313	06/18/2013	20.881	79.119	Yes
M0975-02A	A-2-2-061313	06/18/2013	25.000	75.000	Yes
M0975-03A	A-3-1-061313	06/18/2013	18.921	81.079	Yes
M0975-04A	COMP-A-061313	06/18/2013	21.460	78.540	Yes
M0975-05A	B-1-4-061313	06/18/2013	18.650	81.350	Yes
M0975-06A	B-2-1-061313	06/18/2013	18.229	81.771	Yes
M0975-07A	COMP-B-061313	06/18/2013	20.671	79.329	Yes
M0975-08A	C-1-2-061313	06/18/2013	23.940	76.060	Yes
M0975-09A	C-2-3-061313	06/18/2013	25.535	74.465	Yes
M0975-10A	C-3-2-061313	06/18/2013	23.295	76.705	Yes
M0975-11A	COMP-C-061313	06/18/2013	17.278	82.722	Yes
M0975-12A	D-1-1-061313	06/18/2013	17.479	82.521	Yes
M0975-13A	D-3-4-061313	06/18/2013	19.204	80.796	Yes
M0975-14A	COMP-D-061313	06/18/2013	20.900	79.100	Yes
M0975-15A	E-1-3-061313	06/18/2013	15.889	84.111	Yes
M0975-16A	E-2-4-061313	06/18/2013	24.763	75.237	Yes
M0975-17A	E-3-2-061313	06/18/2013	23.279	76.721	Yes
M0975-18A	COMP-E-061313	06/18/2013	16.103	83.897	Yes

Spectrum Analytical, Inc. RI Division E2 Injection Log
GC Semivolatiles Laboratory

METHOD: 8082 ANALYST: TM
ICAL DATE: 5/29/13

START BATCH: 130529BF.B Start: 29-MAY-13 15:42
END BATCH: 130529BF.B End: 30-MAY-13 02:34

Inlet Maintenance By: TM
Liner : New
Column : Cut Guard Column
Inlet Seal: New
Septum : New

Internal Standard:
Comments: 8082 ICAL

Reviewed By: 6/4/13 Manual Integration: NA MI Review: NA

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	SURROGATES FRONT DCB	SURROGATES REAR TCMX	SURROGATES REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E2M0445F/R	15:42	AIBLKDA	AIBLKDA		AQ	100	69	98	67	1			✓		
E2M0446F/R	16:02	AR12213D2	AR12213D2		AQ					1			✓		PW130523A
E2M0447F/R	16:22	AR12321D2	AR12323D2		AQ					1			—		~~PW130523B~~ TM 5/29/13 not using
E2M0448F/R	16:42	AR12322D2	AR12323D2		AQ					1			—		not using
E2M0449F/R	17:01	AR12323D2	AR12323D2		AQ					1			✓		PW130523B
E2M0450F/R	17:21	AR12324D2	AR12323D2		AQ					1			—		not using
E2M0451F/R	17:40	AR12325D2	AR12323D2		AQ					1			—		not using
E2M0452F/R	18:00	AR12421D2	AR12421D2		AQ					1			✓		PW130523F
E2M0453F/R	18:20	AR12426D2	AR12426D2		AQ					1			✓		↓ J
E2M0454F/R	18:40	AR12422D2	AR12422D2		AQ					1			✓		PW130523G
E2M0455F/R	19:00	AR12423D2	AR12423D2		AQ					1			✓		PW130521A
E2M0456F/R	19:19	AR12424D2	AR12424D2		AQ					1			✓		PW130523H
E2M0457F/R	19:39	AR12425D2	AR12425D2		AQ					1			✓		↓ I
E2M0458F/R	19:59	AR12481D2	AR12481D2		AQ					1			✓		K
E2M0459F/R	20:19	AR12486D2	AR12486D2		AQ					1			✓		P
E2M0460F/R	20:38	AR12482D2	AR12482D2		AQ					1			✓		PW130523L
E2M0461F/R	20:58	AR12483D2	AR12483D2		AQ					1			✓		PW130521B
E2M0462F/R	21:18	AR12484D2	AR12484D2		AQ					1			✓		PW130523M
E2M0463F/R	21:38	AR12485D2	AR12485D2		AQ					1			✓		↓ N
E2M0464F/R	21:58	AR12541D2	AR12541D2		AQ					1			✓		Q
E2M0465F/R	22:17	AR12546D2	AR12546D2		AQ					1			✓		↓ U
E2M0466F/R	22:37	AR12542D2	AR12542D2		AQ					1			✓		PW130523R
E2M0467F/R	22:57	AR12543D2	AR12543D2		AQ					1			✓		PW130521C
E2M0468F/R	23:17	AR12544D2	AR12544D2		AQ					1			✓		PW130523S
E2M0469F/R	23:36	AR12545D2	AR12545D2		AQ					1			✓		↓ T
E2M0470F/R	23:56	AR12623D2	AR12623D2		AQ					1			✓		↓ E
E2M0471F/R	00:16	AR12683D2	AR12683D2		AQ					1			✓		PW130523O

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
* - Surrogate is outside of control limits
D - Surrogate is diluted

TM 6/4/13

Spectrum Analytical, Inc. RI Division E2 Injection Log
GC Semivolatiles Laboratory

METHOD: 8082
ICAL DATE: 5/29/13

ANALYST: TM

START BATCH: 130529BF.B Start: 29-MAY-13 15:42
END BATCH: 130529BF.B End: 30-MAY-13 02:34

Inlet Maintenance By: TM
Liner : new
Column : cut 6uard Column
Inlet Seal: new
Septum : new

Internal Standard:
Comments: 8082 ICAL

Reviewed By: CM 6/4/13

Manual Integration: TM 5/29/13

MI Review: CM 6/4/13

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	SURROGATES FRONT DCB	SURROGATES REAR TCMX	SURROGATES REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E2M0472F/R	00:35	AR16601D2	AR16601D2		AQ					1					MI_F9_11 PW130523 V
E2M0473F/R	00:55	AR16606D2	AR16606D2		AQ					1					MI_F5_9_11 ↓ Z
E2M0474F/R	01:15	AR16602D2	AR16602D2		AQ					1					PW130523 W
E2M0475F/R	01:34	AR16603D2	AR16603D2		AQ					1					PW130521 U
E2M0476F/R	01:54	AR16604D2	AR16604D2		AQ					1					PW130523 X
E2M0477F/R	02:14	AR16605D2	AR16605D2		AQ					1					↓ Y
E2M0478F/R	02:34	AR1660ICVDA	AR1660ICVDA		AQ					1					PW130523 E

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
* - Surrogate is outside of control limits
D - Surrogate is diluted

TM
6/4/13

M0975

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E2

Spectrum Analytical, Inc. RI Division E2 Injection Log
GC Semivolatiles Laboratory

METHOD: 8082 ANALYST: TM
ICAL DATE: 5/29/13

START BATCH: 130619F.B Start: 19-JUN-13 09:11
END BATCH: 130619F.B End: 19-JUN-13 14:35

STD's on Pg 75

Internal Standard:
Comments:

Inlet Maintenance By:
Liner :
Column :
Inlet Seal: I
Septum :

Reviewed By: CC 6/19/13 Manual Integration: TM 6/19/13 MI Review: CC 6/19/13

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	SURROGATES FRONT DCB	SURROGATES REAR TCMX	SURROGATES REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E2M1004F/R	09:11	AIBLKDK	AIBLKDK		AQ					1				✓	
E2M1005F/R	09:31	AR16603DK	AR16603DK		AQ					1			✓	✓	MI R8
E2M1006F/R	09:51	AR12423DK	AR12423DK		AQ					1			✓	✓	
E2M1007F/R	10:10	AR12483DK	AR12483DK		AQ					1			✓	✓	
E2M1008F/R	10:30	AR12543DK	AR12543DK		AQ					1			✓	✓	
E2M1009F/R	10:58	MB-72289	MB-72289	72289	SL	93	89	92	90	1				✓	
E2M1010F/R	11:17	LCS-72289	LCS-72289	72289	SL	100	89	97	90	1				✓	
E2M1011F/R	11:37	LCSD-72289	LCSD-72289	72289	AQ	97	91	95	93	1				✓	
E2M1012F/R	11:57	M0967-01A	RS-BF-A79-06131	72289	SL	76	79	75	76	1				✓	
E2M1013F/R	12:17	M0967-02A	RS-BF-A81-06131	72289	SL	74	72	73	72	1				✓	
E2M1014F/R	12:36	M0975-04A	COMP-A-061313	72289	SL	78	81	77	75	1				✓	
E2M1015F/R	12:56	M0975-07A	COMP-B-061313	72289	SL	74	73	73	75	1				✓	
E2M1016F/R	13:16	M0975-11A	COMP-C-061313	72289	SL	86	90	85	83	1				✓	
E2M1017F/R	13:36	M0975-14A	COMP-D-061313	72289	SL	85	89	85	82	1				✓	
E2M1018F/R	13:55	M0975-18A	COMP-E-061313	72289	SL	84	82	82	79	1				✓	
E2M1019F/R	14:15	AIBLKDL	AIBLKDL		AQ					1				✓	
E2M1020F/R	14:35	AR16603DL	AR16603DL		AQ					1			✓	✓	

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
* - Surrogate is outside of control limits
D - Surrogate is diluted

Reviewed

TM 6/19/13

* Metals *

REPORT NARRATIVE

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

Client : GZA GeoEnvironmental of NY Buffalo

Project: Former Signore Facility

Laboratory Workorder / SDG #: M0975

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 code: 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: COMP-E-061313 (M0975-18AMS).

Percent recoveries were within the QC limits with the following exceptions:

COMP-E-061313 (M0975-18AMS), recovery is below criteria for Antimony at 46% with criteria of (80-120).

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on sample: COMP-E-061313 (M0975-18APDS).

COMP-E-061313 (M0975-18APDS) for Antimony due to recovery of this element outside of QC limits in the matrix spike.

E. Duplicate sample:

Duplicate analyses were performed on sample: COMP-E-061313 (M0975-18ADUP).

Relative percent differences were within the QC limits with the following exceptions:

COMP-E-061313 (M0975-18ADUP), Duplicate analysis not within control limit for Manganese.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on sample: COMP-E-061313 (M0975-18ASD).

Percent differences were within the QC limits.

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: 06/26/13

Data Flag/Qualifiers:

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 an 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 aldol condensation byproducts.

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.

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: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

SOW No.: SW846

EPA Sample No.	Lab Sample ID
COMP-A-061313	M0975-04
COMP-B-061313	M0975-07
COMP-C-061313	M0975-11
COMP-D-061313	M0975-14
COMP-E-061313	M0975-18
COMP-E-061313D	M0975-18DUP
COMP-E-061313S	M0975-18MS

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 Fawler Name: Sharyn Bhawler

Date: 6/26/13 Title: QAO

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

COMP-A-061313

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Matrix (soil/water): SOIL Lab Sample ID: M0975-04

Level (low/med): MED Date Received: 06/14/2013

% Solids: 78.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18800			P
7440-36-0	Antimony	0.42	U	N	P
7440-38-2	Arsenic	16.1			P
7440-39-3	Barium	240			P
7440-41-7	Beryllium	0.87			P
7440-43-9	Cadmium	0.017	U		P
7440-70-2	Calcium	2610			P
7440-47-3	Chromium	20.7			P
7440-48-4	Cobalt	15.0			P
7440-50-8	Copper	17.1			P
7439-89-6	Iron	31700			P
7439-92-1	Lead	19.2			P
7439-95-4	Magnesium	3940			P
7439-96-5	Manganese	875		*	P
7439-97-6	Mercury	0.044	B		CV
7440-02-0	Nickel	26.7			P
7440-09-7	Potassium	1310			P
7782-49-2	Selenium	0.90	B		P
7440-22-4	Silver	0.15	B		P
7440-23-5	Sodium	13.7	B		P
7440-28-0	Thallium	0.25	U		P
7440-62-2	Vanadium	21.0			P
7440-66-6	Zinc	86.8			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

COMP-B-061313

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Matrix (soil/water): SOIL Lab Sample ID: M0975-07

Level (low/med): MED Date Received: 06/14/2013

% Solids: 79.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17200			P
7440-36-0	Antimony	0.29	U	N	P
7440-38-2	Arsenic	15.0			P
7440-39-3	Barium	251			P
7440-41-7	Beryllium	0.81			P
7440-43-9	Cadmium	0.10	B		P
7440-70-2	Calcium	2230			P
7440-47-3	Chromium	18.7			P
7440-48-4	Cobalt	14.5			P
7440-50-8	Copper	17.9			P
7439-89-6	Iron	32900			P
7439-92-1	Lead	17.7			P
7439-95-4	Magnesium	3800			P
7439-96-5	Manganese	812		*	P
7439-97-6	Mercury	0.048	B		CV
7440-02-0	Nickel	27.3			P
7440-09-7	Potassium	1050			P
7782-49-2	Selenium	0.49	U		P
7440-22-4	Silver	0.12	B		P
7440-23-5	Sodium	14.3	B		P
7440-28-0	Thallium	0.17	U		P
7440-62-2	Vanadium	19.2			P
7440-66-6	Zinc	79.9			P

Comments:

1 EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET COMP-C-061313

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Matrix (soil/water): SOIL Lab Sample ID: M0975-11

Level (low/med): MED Date Received: 06/14/2013

% Solids: 82.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16800			P
7440-36-0	Antimony	0.35	U	N	P
7440-38-2	Arsenic	16.7			P
7440-39-3	Barium	282			P
7440-41-7	Beryllium	0.80			P
7440-43-9	Cadmium	0.16	B		P
7440-70-2	Calcium	2640			P
7440-47-3	Chromium	18.2			P
7440-48-4	Cobalt	14.0			P
7440-50-8	Copper	18.5			P
7439-89-6	Iron	31200			P
7439-92-1	Lead	23.3			P
7439-95-4	Magnesium	3650			P
7439-96-5	Manganese	1320		*	P
7439-97-6	Mercury	0.052			CV
7440-02-0	Nickel	25.0			P
7440-09-7	Potassium	1270			P
7782-49-2	Selenium	0.93	B		P
7440-22-4	Silver	0.20	B		P
7440-23-5	Sodium	13.3	B		P
7440-28-0	Thallium	0.29	B		P
7440-62-2	Vanadium	19.1			P
7440-66-6	Zinc	87.8			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

COMP-D-061313

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Matrix (soil/water): SOIL Lab Sample ID: M0975-14

Level (low/med): MED Date Received: 06/14/2013

% Solids: 79.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18100			P
7440-36-0	Antimony	0.33	U	N	P
7440-38-2	Arsenic	17.1			P
7440-39-3	Barium	266			P
7440-41-7	Beryllium	0.86			P
7440-43-9	Cadmium	0.082	B		P
7440-70-2	Calcium	2450			P
7440-47-3	Chromium	19.4			P
7440-48-4	Cobalt	14.7			P
7440-50-8	Copper	20.6			P
7439-89-6	Iron	34700			P
7439-92-1	Lead	21.1			P
7439-95-4	Magnesium	4070			P
7439-96-5	Manganese	951		*	P
7439-97-6	Mercury	0.044	B		CV
7440-02-0	Nickel	27.4			P
7440-09-7	Potassium	1160			P
7782-49-2	Selenium	0.83	B		P
7440-22-4	Silver	0.13	B		P
7440-23-5	Sodium	13.7	B		P
7440-28-0	Thallium	0.19	U		P
7440-62-2	Vanadium	20.6			P
7440-66-6	Zinc	85.2			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

COMP-E-061313

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Matrix (soil/water): SOIL Lab Sample ID: M0975-18

Level (low/med): MED Date Received: 06/14/2013

% Solids: 83.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16600			P
7440-36-0	Antimony	0.32	U	N	P
7440-38-2	Arsenic	15.4			P
7440-39-3	Barium	258			P
7440-41-7	Beryllium	0.75			P
7440-43-9	Cadmium	0.11	B		P
7440-70-2	Calcium	2010			P
7440-47-3	Chromium	17.8			P
7440-48-4	Cobalt	14.3			P
7440-50-8	Copper	20.6			P
7439-89-6	Iron	32600			P
7439-92-1	Lead	20.6			P
7439-95-4	Magnesium	3660			P
7439-96-5	Manganese	979		*	P
7439-97-6	Mercury	0.044			CV
7440-02-0	Nickel	25.2			P
7440-09-7	Potassium	1060			P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.17	B		P
7440-23-5	Sodium	12.9	B		P
7440-28-0	Thallium	0.25	B		P
7440-62-2	Vanadium	19.2			P
7440-66-6	Zinc	83.7			P

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	06/18/13 15:21				06/18/13 15:39		06/18/13 15:57		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury	5.0	4.83	96.6	5.0	4.85	96.9	4.90	98.0	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: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	06/21/13 10:35				06/21/13 10:58		06/21/13 11:20		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	10868.29	108.7	10000.0	10995.38	110.0	10726.60	107.3	P
Antimony	500.0	499.15	99.8	500.0	508.41	101.7	510.02	102.0	P
Arsenic	500.0	510.69	102.1	500.0	515.80	103.2	510.21	102.0	P
Barium	10000.0	10457.44	104.6	10000.0	10522.68	105.2	10421.70	104.2	P
Beryllium	250.0	253.96	101.6	250.0	254.67	101.9	251.09	100.4	P
Cadmium	250.0	264.52	105.8	250.0	267.02	106.8	263.49	105.4	P
Calcium	25000.0	24913.24	99.7	25000.0	25279.88	101.1	25064.29	100.3	P
Chromium	1000.0	1068.11	106.8	1000.0	1070.50	107.0	1063.86	106.4	P
Cobalt	2500.0	2640.38	105.6	2500.0	2648.22	105.9	2620.94	104.8	P
Copper	1250.0	1278.91	102.3	1250.0	1271.19	101.7	1258.47	100.7	P
Iron	5000.0	5457.99	109.2	5000.0	5519.77	110.4	5413.77	108.3	P
Lead	500.0	509.41	101.9	500.0	517.32	103.5	516.36	103.3	P
Magnesium	25000.0	25972.92	103.9	25000.0	26230.51	104.9	25820.65	103.3	P
Manganese	2500.0	2580.71	103.2	2500.0	2593.07	103.7	2559.14	102.4	P
Nickel	2500.0	2661.50	106.5	2500.0	2670.72	106.8	2645.09	105.8	P
Potassium	25000.0	25320.49	101.3	25000.0	26550.41	106.2	24489.62	98.0	P
Selenium	500.0	499.44	99.9	500.0	502.26	100.5	502.46	100.5	P
Silver	1250.0	1315.94	105.3	1250.0	1312.52	105.0	1301.64	104.1	P
Sodium	25000.0	25622.14	102.5	25000.0	26870.97	107.5	24711.97	98.8	P
Thallium	500.0	491.85	98.4	500.0	499.83	100	497.80	99.6	P
Vanadium	2500.0	2582.01	103.3	2500.0	2579.25	103.2	2564.85	102.6	P
Zinc	2500.0	2714.99	108.6	2500.0	2731.36	109.3	2696.69	107.9	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: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					06/21/13 11:57				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10317.41	103.2			P
Antimony				500.0	497.76	99.6	506.57	101.3	P
Arsenic				500.0	495.50	99.1			P
Barium				10000.0	10142.10	101.4			P
Beryllium				250.0	243.45	97.4			P
Cadmium				250.0	255.41	102.2			P
Calcium				25000.0	24176.39	96.7			P
Chromium				1000.0	1023.69	102.4			P
Cobalt				2500.0	2527.69	101.1			P
Copper				1250.0	1228.86	98.3			P
Iron				5000.0	5250.27	105.0	5255.85	105.1	P
Lead				500.0	499.42	99.9			P
Magnesium				25000.0	25156.56	100.6			P
Manganese				2500.0	2495.16	99.8	2582.30	103.3	P
Nickel				2500.0	2554.97	102.2			P
Potassium				25000.0	25426.50	101.7			P
Selenium				500.0	492.43	98.5			P
Silver				1250.0	1267.28	101.4			P
Sodium				25000.0	25726.62	102.9			P
Thallium				500.0	481.20	96.2			P
Vanadium				2500.0	2491.82	99.7			P
Zinc				2500.0	2594.95	103.8			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: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID: **MB-72291**

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

FIMS2_130618B

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	06/18/13 15:41	C	06/18/13 15:59	C		C		C	M
Mercury	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: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID: **MB-72322**

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

OPTIMA3_130621B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 06/21/13 11:01	C	06/21/13 11:23	C	06/21/13 12:01	C	Preparation Blank	C	M
Aluminum	69.3	B	66.0	U	66.0	U	66.0	U	1.216	B	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	4.5	B	0.410	U	P
Barium	1.2	B	1.1	U	1.3	B	1.3	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	114.1	B	110.0	U	110.0	U	6.100	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.019	U	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	0.9	U	0.8	U	0.8	U	0.8	U	0.043	U	P
Potassium	76.0	U	76.0	U	76.0	U	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	0.143	B	P
Sodium	-154.1	B	-183.4	B	-248.8	B	-289.0	B	1.100	U	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: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

OPTIMA3_130621B

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	06/21/13 12:38	C		C		C		C	M
Antimony			9.3	U							P
Iron			31.0	U							P
Manganese			10.0	U							P

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

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	559713	556353.1	111.3				
Antimony	0	600	11	656.4	109.4				
Arsenic	0	100	11	109.9	109.9				
Barium	0	500	3	544.5	108.9				
Beryllium	0	500	0	519	103.8				
Cadmium	0	1000	0	1016.8	101.7				
Calcium	500000	500000	568742	558203.1	111.6				
Chromium	0	500	1	495	99.0				
Cobalt	0	500	3	473.3	94.7				
Copper	0	500	9	548.2	109.6				
Iron	200000	200000	200981	199218.8	99.6				
Lead	0	500	-5	471.7	94.3				
Magnesium	500000	500000	514236	513659	102.7				
Manganese	0	500	0	516.4	103.3				
Nickel	0	1000	2	926.7	92.7				
Potassium	0	25000	262	26876.2	107.5				
Selenium	0	500	7	502	100.4				
Silver	0	200	3	234.4	117.2				
Sodium	0	25000	283	26884.1	107.5				
Thallium	0	100	-3	85	85.0				
Vanadium	0	500	-10	512	102.4				
Zinc	0	1000	8	954.4	95.4				

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

COMP-E-061313S

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 83.9

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	8.8		0.32	U	19.2	46	N	P
Arsenic	75-125	33.0		15.4		19.2	92		P
Barium	75-125	625		258		385	96		P
Beryllium	75-125	10.5		0.75		9.6	102		P
Cadmium	75-125	9.9		0.11	B	9.6	102		P
Chromium	75-125	57.3		17.8		38.5	103		P
Cobalt	75-125	114		14.3		96.0	104		P
Copper	75-125	69.8		20.6		47.8	103		P
Lead	75-125	37.5		20.6		19.2	88		P
Nickel	75-125	124		25.2		96.0	103		P
Selenium	75-125	19.2		0.54	U	19.2	100		P
Silver	75-125	52.4		0.054	B	47.8	110		P
Thallium	75-125	18.4		0.19	B	19.2	95		P
Vanadium	75-125	115		19.2		96.0	99		P
Zinc	75-125	174		83.7		96.0	95		P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

COMP-E-061313A

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

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		481.52		0.38	U	455.0	106		P

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

COMP-E-061313D

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 83.9 % Solids for Duplicate: 83.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		16587.2287		16734.3075		0.9		P
Antimony		0.3200	U	0.3300	U			P
Arsenic		15.4438		14.4834		6.4		P
Barium		257.7411		231.8033		10.6		P
Beryllium	0.2	0.7500		0.7034		6.4		P
Cadmium		0.1133	B	0.0526	B	73.2		P
Calcium		2010.9021		1896.2280		5.9		P
Chromium		17.8472		18.1492		1.7		P
Cobalt		14.2525		13.2267		7.5		P
Copper		20.5530		17.3676		16.8		P
Iron		32599.0507		29648.6894		9.5		P
Lead		20.6177		19.0925		7.7		P
Magnesium		3656.3874		3672.0427		0.4		P
Manganese		979.2127		770.1297		23.9	*	P
Nickel		25.1627		24.8704		1.2		P
Potassium		1057.9679		1079.1365		2		P
Selenium		0.5400	U	0.7582	B	200		P
Silver		0.1684	B	0.1122	B	40.1		P
Sodium		12.8570	B	13.4477	B	4.5		P
Thallium		0.2548	B	0.2732	B	7		P
Vanadium		19.2042		19.2350		0.2		P
Zinc		83.7134		77.5260		7.7		P

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-72291

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

7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-72322

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum				455.0	463.1		364	546.0	101.8
Antimony				22.8	23.7		18.2	27.3	103.9
Arsenic				22.8	22.8		18.2	27.3	100.0
Barium				455.0	468.3		364	546.0	102.9
Beryllium				11.4	11.2		9.1	13.6	98.2
Cadmium				11.4	11.7		9.1	13.6	102.6
Calcium				1135.0	1101.6		908	1362.0	97.1
Chromium				45.5	47.1		36.4	54.6	103.5
Cobalt				113.5	117.7		90.8	136.2	103.7
Copper				56.5	56.3		45.2	67.8	99.6
Iron				227.5	245.2		182	273.0	107.8
Lead				22.8	23.2		18.2	27.3	101.8
Magnesium				1135.0	1171.1		908	1362.0	103.2
Manganese				113.5	115.3		90.8	136.2	101.6
Nickel				113.5	117.6		90.8	136.2	103.6
Potassium				1135.0	1113.8		908	1362.0	98.1
Selenium				22.8	21.5		18.2	27.3	94.3
Silver				56.5	57.2		42.4	67.8	101.2
Sodium				1135.0	1118.7		908	1362.0	98.6
Thallium				22.8	21.9		18.2	27.3	96.1
Vanadium				113.5	113.7		90.8	136.2	100.2
Zinc				113.5	116.5		90.8	136.2	102.6

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

COMP-E-061313

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

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	389655.29		381554.43		2		P
Antimony	9.30	U	46.50	U			P
Arsenic	362.80		365.69		1		P
Barium	6054.67		6029.61		0		P
Beryllium	17.62		18.44		5		P
Cadmium	2.66	B	4.45	U	100		P
Calcium	47238.67		48644.56		3		P
Chromium	419.25		417.16		1		P
Cobalt	334.81		347.79		4		P
Copper	482.82		476.57		1		P
Iron	38289.68		37727.05		2		P
Lead	484.34		496.55		3		P
Magnesium	85893.23		86615.20		1		P
Manganese	23002.96		24289.67		6		P
Nickel	591.10		609.88		3		P
Potassium	24853.02		25933.66		4		P
Selenium	12.00	U	60.00	U			P
Silver	6.90	B	34.50	U	100		P
Sodium	302.03	B	145.00	U	100		P
Thallium	6.20	B	31.00	U	100		P
Vanadium	451.13		444.33		2		P
Zinc	1966.54		1988.16		1		P

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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

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

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

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: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

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:

U.S. EPA - CLP

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Instrument Type: P InstrumentID: OPTIMA3 Date: 03/03/2010

Preparation Method: 3005A

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:

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

ICP ID Number: OPTIMA3 Date: 3/22/2013

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Co
Aluminum	308.21		0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0524709	0.0000000	0.0813952	0.0208555	0.0000000
Arsenic	188.97	0.0211768	-0.0144099	-0.1293530	0.0000000	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	0.0340687	0.0000000	0.0000000
Calcium	227.54	0.0000000		-37.6317000	0.0000000	154.2530000
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	-0.1055780	0.0000000	0.0000000
Iron	273.95	0.1353110	0.0000000		0.0629507	0.0000000
Lead	220.35	-0.0646768	0.0000000	0.0402248	0.0000000	0.0000000
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	-0.2617180
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0463483	0.0206586	-0.4046580	0.0000000	-0.4462920
Silver	328.06	0.0000000	0.0000000	-0.0397677	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	-0.0178616	-0.0847627	-0.0140225	2.5469000
Titanium	334.94	0.0055152	-0.0099349	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0441272	0.0000000	0.0000000
Zinc	206.20	0.0128739	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: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

ICP ID Number: OPTIMA3 Date: 3/22/2013

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	12.8721000	0.3052440	0.0000000	0.0000000	0.0000000
Arsenic	188.97	-8.5884200	0.0000000	0.0000000	0.0000000	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	-0.5446510	0.0000000
Calcium	227.54	0.0000000	0.0000000	0.0000000	52.9720000	0.0000000
Chromium	267.71		0.0000000	0.4053390	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.1592230	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	0.0451725	0.4845090	0.1475910	0.0797307	0.0000000
Magnesium	279.07	0.0000000	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		0.2826600
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.3886040	-0.1531550	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.1975820	0.0000000	0.2934860	0.0000000	
Titanium	334.94	0.2542870	0.0000000	0.0000000	0.0000000	0.1359400
Vanadium	292.40	-3.1034300	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	-2.4395100	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: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

ICP ID Number: OPTIMA3 Date: 3/22/2013

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	V	___	___	___
Aluminum	308.21	0.0000000	4.6508100			
Antimony	206.83	-0.8473160	-1.2603800			
Arsenic	188.97	0.0000000	0.0000000			
Barium	233.52	0.0000000	-1.1393900			
Beryllium	313.10	-1.7951400	-0.0449437			
Cadmium	226.50	0.2180210	0.0000000			
Calcium	227.54	0.0000000	62.2286000			
Chromium	267.71	0.0000000	-0.4256330			
Cobalt	228.61	2.0452400	0.0000000			
Copper	324.75	0.0000000	-0.2212660			
Iron	273.95	-2.1905500	-14.8783000			
Lead	220.35	-0.5895250	0.0000000			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	0.0000000	0.0000000			
Silver	328.06	0.0000000	-5.3154700			
Sodium	589.59	0.0000000	0.0000000			
Thallium	190.80	0.8213800	2.1141200			
Titanium	334.94		0.0000000			
Vanadium	292.40	1.0836500				
Zinc	206.20	0.0000000	0.0000000			

Comments:

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12

ICP LINEAR RANGES (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

ICP ID Number: OPTIMA3 Date: 3/18/2013

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	10000	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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13

PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Preparation Method: 7471B Batch ID: 72291

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	06/18/2013	0.60	100
CCV	06/18/2013	0.60	100
ICB	06/18/2013	0.60	100
ICV	06/18/2013	0.60	100
S0	06/18/2013	0.60	100
S0.2	06/18/2013	0.60	100
S1.0	06/18/2013	0.60	100
S10.0	06/18/2013	0.60	100
S2.0	06/18/2013	0.60	100
S5.0	06/18/2013	0.60	100
COMP-A-061313	06/18/2013	0.56	100
COMP-B-061313	06/18/2013	0.51	100
COMP-C-061313	06/18/2013	0.54	100
COMP-D-061313	06/18/2013	0.55	100
COMP-E-061313	06/18/2013	0.58	100
LCSS	06/18/2013	0.60	100
PBS	06/18/2013	0.60	100

Comments:

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13

PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Preparation Method: 3050B Batch ID: 72322

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
COMP-A-061313	06/20/2013	1.14	50
COMP-B-061313	06/20/2013	1.65	50
COMP-C-061313	06/20/2013	1.31	50
COMP-D-061313	06/20/2013	1.46	50
COMP-E-061313	06/20/2013	1.40	50
COMP-E-061313D	06/20/2013	1.39	50
COMP-E-061313S	06/20/2013	1.41	50
LCSS	06/20/2013	1.00	50
PBS	06/20/2013	1.00	50

Comments:

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Instrument ID Number: FIMS2 Method: CV

Start Date: 06/18/2013 End Date: 06/18/2013

FIMS2_130618B

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	1511																X									
S0.2	1.0	1512																X									
S1.0	1.0	1514																X									
S2.0	1.0	1516																X									
S5.0	1.0	1517																X									
S10.0	1.0	1519																X									
ICV	1.0	1521																X									
ICB	1.0	1522																X									
PBS	1.0	1524																X									
LCSS	1.0	1526																X									
ZZZZZZ	1.0	1527																										
ZZZZZZ	1.0	1529																										
ZZZZZZ	1.0	1531																										
ZZZZZZ	1.0	1532																										
ZZZZZZ	1.0	1534																										
COMP-A-061313	1.0	1536																X									
COMP-B-061313	1.0	1537																X									
CCV	1.0	1539																X									
CCB	1.0	1541																X									
COMP-C-061313	1.0	1542																X									
COMP-D-061313	1.0	1544																X									
COMP-E-061313	1.0	1546																X									
ZZZZZZ	1.0	1547																										
ZZZZZZ	1.0	1549																										
ZZZZZZ	1.0	1551																										
ZZZZZZ	1.0	1552																										
ZZZZZZ	1.0	1554																										
ZZZZZZ	20.0	1556																										
CCV	1.0	1557																X									
CCB	1.0	1559																X									

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Instrument ID Number: OPTIMA3 Method: P

Start Date: 06/21/2013 End Date: 06/21/2013

OPTIMA3_130621B

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	1021		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	1024		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	1028		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	1032		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	1035		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	1039		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	1043																									
ZZZZZZ	1.0	1047																									
ICSA	1.0	1050		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.0	1054		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	1058		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	1101		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	1105		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	1109		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	1112																									
ZZZZZZ	1.0	1116																									
CCV	1.0	1120		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	1123		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
COMP-A-061313	1.0	1127		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
COMP-B-061313	1.0	1131		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
COMP-C-061313	1.0	1135		X	X	X	X	X	X	X	X	X	X		X	X			X	X	X	X	X	X	X	X	
COMP-D-061313	1.0	1138		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
COMP-E-061313	1.0	1142		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
COMP-E-061313D	1.0	1146		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
COMP-E-061313S	1.0	1150			X	X	X	X	X		X	X	X		X				X		X	X		X	X	X	
COMP-E-061313L	5.0	1153		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
CCV	1.0	1157		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	1201		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
COMP-E-061313A	1.0	1205			X																						
COMP-A-061313	20.0	1208												X													
COMP-B-061313	20.0	1212												X													
COMP-C-061313	20.0	1216												X			X										

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 21.0056491.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM0975

Instrument ID Number: OPTIMA3 Method: P

Start Date: 06/21/2013 End Date: 06/21/2013

OPTIMA3_130621B

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
COMP-D-061313	20.0	1219												X													
COMP-E-061313	20.0	1223												X													
COMP-E-061313D	20.0	1227												X													
COMP-E-061313L	100.0	1230												X													
CCV	1.0	1234			X									X			X										
CCB	1.0	1238			X									X			X										

Instrument Raw Data

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Reprocessing Begun
Logged In Analyst: mitOptima3 **Technique: ICP Continuous**

Results Data Set (original): B13062102
Results Library (original): C:\pe\Administrator\Results\Results.mdb
Results Data Set (reprocessed): B13062102A
Results Library (reprocessed): C:\pe\Administrator\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 6/21/2013 10:21:05 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:48 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	1702178.1	21812.91	1.28%	100.00	%
Lu 261.542	1104656.4	13918.71	1.26%	100.0	%
Ag 328.068†	-3722.1	64.35	1.73%	[0.00]	mg/L
Al 308.215†	4580.9	76.24	1.66%	[0.00]	mg/L
As 188.979†	5.2	0.42	8.06%	[0.00]	mg/L
Ba 233.527†	-104.2	4.99	4.78%	[0.00]	mg/L
Be 313.107†	-1557.1	34.55	2.22%	[0.00]	mg/L
Co 228.616†	-42.4	2.58	6.07%	[0.00]	mg/L
Cr 267.716†	51.2	6.06	11.83%	[0.00]	mg/L
Cu 324.752†	2874.0	64.85	2.26%	[0.00]	mg/L
Fe 273.955†	-504.5	4.31	0.86%	[0.00]	mg/L
Mg 279.077†	-845.8	35.08	4.15%	[0.00]	mg/L
Mn 257.610†	-269.7	12.17	4.51%	[0.00]	mg/L
Ni 231.604†	-64.9	5.77	8.89%	[0.00]	mg/L
Pb 220.353†	55.9	1.37	2.45%	[0.00]	mg/L
Sb 206.836†	50.0	4.04	8.07%	[0.00]	mg/L
Se 196.026†	-13.3	2.72	20.51%	[0.00]	mg/L
Tl 190.801†	-3.1	1.53	48.76%	[0.00]	mg/L
V 292.402†	-44.1	37.90	86.02%	[0.00]	mg/L
Zn 206.200†	81.2	2.54	3.13%	[0.00]	mg/L
Cd 226.502†	-79.6	5.90	7.41%	[0.00]	mg/L
Ti 334.940†	140.6	21.90	15.58%	[0.00]	mg/L
Ca 227.546†	108.0	0.28	0.26%	[0.00]	mg/L
Na 589.592†	1295.0	62.07	4.79%	[0.00]	mg/L
K 766.490†	1706.0	21.45	1.26%	[0.00]	mg/L

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Sequence No.: 2 **Autosampler Location: 9**
Sample ID: S1 **Date Collected: 6/21/2013 10:24:43 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:50 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	1588436.5	62595.38	3.94%	93.318	%
Lu 261.542	1035207.2	41363.78	4.00%	93.71	%
Ag 328.068†	347906.8	11243.30	3.23%	[2.5]	mg/L
Al 308.215†	369997.6	12805.88	3.46%	[20]	mg/L
As 188.979†	1066.2	59.92	5.62%	[1]	mg/L
Ba 233.527†	1630497.9	40802.36	2.50%	[20]	mg/L
Be 313.107†	904309.1	24477.20	2.71%	[0.5]	mg/L
Co 228.616†	151546.9	4881.19	3.22%	[5]	mg/L
Cr 267.716†	112531.0	3511.52	3.12%	[2]	mg/L
Cu 324.752†	519702.6	11405.38	2.19%	[2.5]	mg/L
Fe 273.955†	207808.1	6578.32	3.17%	[10]	mg/L

Mg 279.077†	685439.9	20253.79	2.95%	[50]	mg/L
Mn 257.610†	2461036.7	61320.27	2.49%	[5]	mg/L
Ni 231.604†	111221.0	3489.59	3.14%	[5]	mg/L
Pb 220.353†	4461.6	245.42	5.50%	[1]	mg/L
Sb 206.836†	1534.0	86.38	5.63%	[1]	mg/L
Se 196.026†	728.2	39.14	5.38%	[1]	mg/L
Tl 190.801†	1050.9	49.59	4.72%	[1]	mg/L
V 292.402†	497631.7	12254.11	2.46%	[5]	mg/L
Zn 206.200†	123364.3	3723.26	3.02%	[5]	mg/L
Cd 226.502†	19696.4	587.28	2.98%	[0.5]	mg/L
Ti 334.940†	552733.6	14444.82	2.61%	[1]	mg/L
Ca 227.546†	8672.2	464.88	5.36%	[50]	mg/L
Na 589.592†	187490.1	8660.52	4.62%	[50]	mg/L
K 766.490†	56448.4	2630.00	4.66%	[50]	mg/L

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Sequence No.: 3 **Autosampler Location: 10**
Sample ID: S2 **Date Collected: 6/21/2013 10:28:26 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:51 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	1550625.4	24443.13	1.58%	91.097	%
Lu 261.542	1009583.5	14896.44	1.48%	91.39	%
Ag 328.068†	183783.7	3267.08	1.78%	[1.25]	mg/L
Al 308.215†	194821.0	3874.25	1.99%	[10]	mg/L
As 188.979†	554.2	11.04	1.99%	[0.5]	mg/L
Ba 233.527†	858087.6	4552.04	0.53%	[10]	mg/L
Be 313.107†	467790.7	2556.13	0.55%	[0.25]	mg/L
Co 228.616†	81029.2	1567.15	1.93%	[2.5]	mg/L
Cr 267.716†	59392.6	1084.27	1.83%	[1]	mg/L
Cu 324.752†	262636.2	4965.29	1.89%	[1.25]	mg/L
Fe 273.955†	110610.7	2111.07	1.91%	[5]	mg/L
Mg 279.077†	349840.6	6673.23	1.91%	[25]	mg/L
Mn 257.610†	1292700.2	7041.54	0.54%	[2.5]	mg/L
Ni 231.604†	59391.8	1082.36	1.82%	[2.5]	mg/L
Pb 220.353†	2380.4	42.58	1.79%	[0.5]	mg/L
Sb 206.836†	813.4	13.95	1.72%	[0.5]	mg/L
Se 196.026†	384.1	10.83	2.82%	[0.5]	mg/L
Tl 190.801†	558.0	8.43	1.51%	[0.5]	mg/L
V 292.402†	251758.0	4588.76	1.82%	[2.5]	mg/L
Zn 206.200†	66107.7	1201.44	1.82%	[2.5]	mg/L
Cd 226.502†	10436.9	208.96	2.00%	[0.25]	mg/L
Ti 334.940†	284924.2	1807.60	0.63%	[0.5]	mg/L
Ca 227.546†	4513.8	88.36	1.96%	[25]	mg/L
Na 589.592†	94737.2	2788.44	2.94%	[25]	mg/L
K 766.490†	28562.0	866.93	3.04%	[25]	mg/L

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Sequence No.: 4 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 6/21/2013 10:32:08 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:52 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	1576649.2	49733.63	3.15%	92.625	%
Lu 261.542	1032079.4	33401.41	3.24%	93.43	%
Ag 328.068†	3695.2	158.65	4.29%	[0.025]	mg/L
Al 308.215†	4352.6	361.65	8.31%	[0.2]	mg/L
As 188.979†	12.7	1.90	14.98%	[0.01]	mg/L
Ba 233.527†	18749.6	955.34	5.10%	[0.2]	mg/L

Be 313.107†	9617.6	385.00	4.00%	[0.005] mg/L
Co 228.616†	1683.2	54.35	3.23%	[0.05] mg/L
Cr 267.716†	1220.6	49.37	4.04%	[0.02] mg/L
Cu 324.752†	5632.2	318.96	5.66%	[0.025] mg/L
Fe 273.955†	2380.2	90.15	3.79%	[0.1] mg/L
Mg 279.077†	7592.1	375.54	4.95%	[0.5] mg/L
Mn 257.610†	28357.5	1394.45	4.92%	[0.05] mg/L
Ni 231.604†	1222.6	47.70	3.90%	[0.05] mg/L
Pb 220.353†	55.4	9.65	17.43%	[0.01] mg/L
Sb 206.836†	31.9	7.13	22.32%	[0.01] mg/L
Se 196.026†	9.2	5.17	55.99%	[0.01] mg/L
Tl 190.801†	9.1	1.21	13.27%	[0.01] mg/L
V 292.402†	5385.0	255.89	4.75%	[0.05] mg/L
Zn 206.200†	1370.4	51.97	3.79%	[0.05] mg/L
Cd 226.502†	216.4	7.92	3.66%	[0.005] mg/L
Ti 334.940†	6057.7	263.75	4.35%	[0.01] mg/L
Ca 227.546†	97.3	14.19	14.59%	[0.5] mg/L
Na 589.592†	1459.3	86.97	5.96%	[0.5] mg/L
K 766.490†	663.2	76.80	11.58%	[0.5] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	140700	0.00000	0.999750	
Al 308.215	3	Lin Thru 0	0.0	18700	0.00000	0.999778	
As 188.979	3	Lin Thru 0	0.0	1075	0.00000	0.999875	
Ba 233.527	3	Lin Thru 0	0.0	82380	0.00000	0.999783	
Be 313.107	3	Lin Thru 0	0.0	1821000	0.00000	0.999906	
Co 228.616	3	Lin Thru 0	0.0	30730	0.00000	0.999625	
Cr 267.716	3	Lin Thru 0	0.0	56890	0.00000	0.999758	
Cu 324.752	3	Lin Thru 0	0.0	208300	0.00000	0.999991	
Fe 273.955	3	Lin Thru 0	0.0	21050	0.00000	0.999675	
Mg 279.077	3	Lin Thru 0	0.0	13770	0.00000	0.999965	
Mn 257.610	3	Lin Thru 0	0.0	497200	0.00000	0.999799	
Ni 231.604	3	Lin Thru 0	0.0	22550	0.00000	0.999640	
Pb 220.353	3	Lin Thru 0	0.0	4522	0.00000	0.999648	
Sb 206.836	3	Lin Thru 0	0.0	1553	0.00000	0.999670	
Se 196.026	3	Lin Thru 0	0.0	736.2	0.00000	0.999761	
Tl 190.801	3	Lin Thru 0	0.0	1064	0.00000	0.999700	
V 292.402	3	Lin Thru 0	0.0	99760	0.00000	0.999989	
Zn 206.200	3	Lin Thru 0	0.0	25030	0.00000	0.999600	
Cd 226.502	3	Lin Thru 0	0.0	39860	0.00000	0.999721	
Ti 334.940	3	Lin Thru 0	0.0	556200	0.00000	0.999924	
Ca 227.546	3	Lin Thru 0	0.0	174.9	0.00000	0.999867	
Na 589.592	3	Lin Thru 0	0.0	3758	0.00000	0.999989	
K 766.490	3	Lin Thru 0	0.0	1132	0.00000	0.999987	

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Sequence No.: 5 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 6/21/2013 10:35:47 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:53 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.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1560938.4	91.702	%	0.2734				0.30%
Lu 261.542	1019464.7	92.29	%	0.251				0.27%
Ag 328.068†	183737.0	1.3159	mg/L	0.05126	1.3159	mg/L	0.05126	3.90%
QC value within limits for Ag 328.068 Recovery = 105.28%								
Al 308.215†	203424.1	10.868	mg/L	0.4573	10.868	mg/L	0.4573	4.21%
QC value within limits for Al 308.215 Recovery = 108.68%								
As 188.979†	538.6	0.51069	mg/L	0.007519	0.51069	mg/L	0.007519	1.47%
QC value within limits for As 188.979 Recovery = 102.14%								
Ba 233.527†	861268.5	10.457	mg/L	0.0218	10.457	mg/L	0.0218	0.21%
QC value within limits for Ba 233.527 Recovery = 104.57%								
Be 313.107†	460624.6	0.25396	mg/L	0.000702	0.25396	mg/L	0.000702	0.28%

QC value within limits for Be 313.107 Recovery = 101.58%
Co 228.616† 81183.9 2.6404 mg/L 0.11376 2.6404 mg/L 0.11376 4.31%
QC value within limits for Co 228.616 Recovery = 105.62%
Cr 267.716† 60763.2 1.0681 mg/L 0.04503 1.0681 mg/L 0.04503 4.22%
QC value within limits for Cr 267.716 Recovery = 106.81%
Cu 324.752† 266195.0 1.2789 mg/L 0.05033 1.2789 mg/L 0.05033 3.94%
QC value within limits for Cu 324.752 Recovery = 102.31%
Fe 273.955† 114121.0 5.4580 mg/L 0.23806 5.4580 mg/L 0.23806 4.36%
QC value within limits for Fe 273.955 Recovery = 109.16%
Mg 279.077† 357540.0 25.973 mg/L 1.1970 25.973 mg/L 1.1970 4.61%
QC value within limits for Mg 279.077 Recovery = 103.89%
Mn 257.610† 1283094.6 2.5807 mg/L 0.00592 2.5807 mg/L 0.00592 0.23%
QC value within limits for Mn 257.610 Recovery = 103.23%
Ni 231.604† 59996.0 2.6615 mg/L 0.12012 2.6615 mg/L 0.12012 4.51%
QC value within limits for Ni 231.604 Recovery = 106.46%
Pb 220.353† 2305.5 0.50941 mg/L 0.008995 0.50941 mg/L 0.008995 1.77%
QC value within limits for Pb 220.353 Recovery = 101.88%
Sb 206.836† 792.7 0.49915 mg/L 0.004097 0.49915 mg/L 0.004097 0.82%
QC value within limits for Sb 206.836 Recovery = 99.83%
Se 196.026† 366.0 0.49944 mg/L 0.009297 0.49944 mg/L 0.009297 1.86%
QC value within limits for Se 196.026 Recovery = 99.89%
Tl 190.801† 536.8 0.49185 mg/L 0.008208 0.49185 mg/L 0.008208 1.67%
QC value within limits for Tl 190.801 Recovery = 98.37%
V 292.402† 257335.6 2.5820 mg/L 0.10465 2.5820 mg/L 0.10465 4.05%
QC value within limits for V 292.402 Recovery = 103.28%
Zn 206.200† 67886.7 2.7150 mg/L 0.12848 2.7150 mg/L 0.12848 4.73%
QC value within limits for Zn 206.200 Recovery = 108.60%
Cd 226.502† 10503.2 0.26452 mg/L 0.012967 0.26452 mg/L 0.012967 4.90%
QC value within limits for Cd 226.502 Recovery = 105.81%
Ti 334.940† 282504.8 0.50781 mg/L 0.000820 0.50781 mg/L 0.000820 0.16%
QC value within limits for Ti 334.940 Recovery = Not calculated
Ca 227.546† 4444.8 24.913 mg/L 0.3230 24.913 mg/L 0.3230 1.30%
QC value within limits for Ca 227.546 Recovery = 99.65%
Na 589.592† 96279.6 25.622 mg/L 0.1684 25.622 mg/L 0.1684 0.66%
QC value within limits for Na 589.592 Recovery = 102.49%
K 766.490† 28654.8 25.320 mg/L 0.1878 25.320 mg/L 0.1878 0.74%
QC value within limits for K 766.490 Recovery = 101.28%
All analyte(s) passed QC.

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Sequence No.: 6 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 6/21/2013 10:39:29 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:54 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	1633488.6	95.965	%	0.0275				0.03%
Lu 261.542	1059288.0	95.89	%	0.184				0.19%
Ag 328.068†	0.4	0.00001	mg/L	0.001923	0.00001	mg/L	0.001923	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	1296.3	0.06933	mg/L	0.009021	0.06933	mg/L	0.009021	13.01%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.7	0.00068	mg/L	0.001216	0.00068	mg/L	0.001216	178.63%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	95.4	0.00116	mg/L	0.000414	0.00116	mg/L	0.000414	35.75%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	46.6	0.00003	mg/L	0.000005	0.00003	mg/L	0.000005	20.59%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	15.2	0.00050	mg/L	0.000054	0.00050	mg/L	0.000054	10.85%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	5.3	0.00009	mg/L	0.000174	0.00009	mg/L	0.000174	187.42%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	53.5	0.00026	mg/L	0.000609	0.00026	mg/L	0.000609	236.76%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	61.8	0.00294	mg/L	0.000279	0.00294	mg/L	0.000279	9.50%
QC value within limits for Fe 273.955 Recovery = Not calculated								

Mg 279.077† 391.6 0.02845 mg/L 0.003286 0.02845 mg/L 0.003286 11.55%
QC value within limits for Mg 279.077 Recovery = Not calculated
Mn 257.610† 171.0 0.00034 mg/L 0.000110 0.00034 mg/L 0.000110 32.02%
QC value within limits for Mn 257.610 Recovery = Not calculated
Ni 231.604† 9.6 0.00043 mg/L 0.000042 0.00043 mg/L 0.000042 9.92%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 0.8 0.00018 mg/L 0.001506 0.00018 mg/L 0.001506 824.64%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 2.9 0.00187 mg/L 0.003287 0.00187 mg/L 0.003287 175.40%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 0.4 0.00053 mg/L 0.000683 0.00053 mg/L 0.000683 129.46%
QC value within limits for Se 196.026 Recovery = Not calculated
Tl 190.801† -0.3 -0.00033 mg/L 0.005149 -0.00033 mg/L 0.005149 >999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† 73.3 0.00073 mg/L 0.000376 0.00073 mg/L 0.000376 51.15%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 206.200† 54.4 0.00217 mg/L 0.000177 0.00217 mg/L 0.000177 8.14%
QC value within limits for Zn 206.200 Recovery = Not calculated
Cd 226.502† 6.2 0.00015 mg/L 0.000097 0.00015 mg/L 0.000097 62.49%
QC value within limits for Cd 226.502 Recovery = Not calculated
Ti 334.940† 216.1 0.00039 mg/L 0.000158 0.00039 mg/L 0.000158 40.75%
QC value within limits for Ti 334.940 Recovery = Not calculated
Ca 227.546† 5.1 0.02927 mg/L 0.051342 0.02927 mg/L 0.051342 175.39%
QC value within limits for Ca 227.546 Recovery = Not calculated
Na 589.592† -579.2 -0.15415 mg/L 0.007738 -0.15415 mg/L 0.007738 5.02%
QC value within limits for Na 589.592 Recovery = Not calculated
K 766.490† 67.8 0.05994 mg/L 0.037654 0.05994 mg/L 0.037654 62.82%
QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 7 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 6/21/2013 10:43:08 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:55 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	1623387.3	95.371	%	2.1279				2.23%
Lu 261.542	1064242.3	96.34	%	2.195				2.28%
Ag 328.068†	4533.5	0.03242	mg/L	0.000250	0.03242	mg/L	0.000250	0.77%
QC value within limits for Ag 328.068 Recovery = 108.08%								
Al 308.215†	4115.7	0.21989	mg/L	0.005977	0.21989	mg/L	0.005977	2.72%
QC value within limits for Al 308.215 Recovery = 109.94%								
As 188.979†	25.8	0.02422	mg/L	0.004127	0.02422	mg/L	0.004127	17.04%
QC value within limits for As 188.979 Recovery = 121.11%								
Ba 233.527†	18001.1	0.21857	mg/L	0.003785	0.21857	mg/L	0.003785	1.73%
QC value within limits for Ba 233.527 Recovery = 109.28%								
Be 313.107†	9465.5	0.00524	mg/L	0.000097	0.00524	mg/L	0.000097	1.86%
QC value within limits for Be 313.107 Recovery = 104.72%								
Co 228.616†	1695.3	0.05512	mg/L	0.002271	0.05512	mg/L	0.002271	4.12%
QC value within limits for Co 228.616 Recovery = 110.24%								
Cr 267.716†	1199.4	0.02108	mg/L	0.000843	0.02108	mg/L	0.000843	4.00%
QC value within limits for Cr 267.716 Recovery = 105.41%								
Cu 324.752†	6528.8	0.03137	mg/L	0.000550	0.03137	mg/L	0.000550	1.75%
QC value within limits for Cu 324.752 Recovery = 104.58%								
Fe 273.955†	4581.3	0.21840	mg/L	0.004591	0.21840	mg/L	0.004591	2.10%
QC value within limits for Fe 273.955 Recovery = 109.20%								
Mg 279.077†	7391.1	0.53692	mg/L	0.006061	0.53692	mg/L	0.006061	1.13%
QC value within limits for Mg 279.077 Recovery = 107.38%								
Mn 257.610†	27447.9	0.05521	mg/L	0.000898	0.05521	mg/L	0.000898	1.63%
QC value within limits for Mn 257.610 Recovery = 110.41%								
Ni 231.604†	1225.1	0.05434	mg/L	0.002193	0.05434	mg/L	0.002193	4.03%
QC value within limits for Ni 231.604 Recovery = 108.69%								
Pb 220.353†	52.5	0.01160	mg/L	0.001086	0.01160	mg/L	0.001086	9.37%
QC value within limits for Pb 220.353 Recovery = 115.99%								
Sb 206.836†	43.3	0.02767	mg/L	0.004216	0.02767	mg/L	0.004216	15.24%

QC value greater than the upper limit for Sb 206.836 Recovery = 138.33%

Se 196.026†	18.2	0.02475 mg/L	0.005268	0.02475 mg/L	0.005268	21.28%
QC value within limits for Se 196.026 Recovery = 82.50%						
Tl 190.801†	21.3	0.01980 mg/L	0.001457	0.01980 mg/L	0.001457	7.36%
QC value within limits for Tl 190.801 Recovery = 98.99%						
V 292.402†	5181.7	0.05197 mg/L	0.000715	0.05197 mg/L	0.000715	1.38%
QC value within limits for V 292.402 Recovery = 103.95%						
Zn 206.200†	1361.5	0.05445 mg/L	0.002622	0.05445 mg/L	0.002622	4.82%
QC value within limits for Zn 206.200 Recovery = 108.90%						
Cd 226.502†	213.3	0.00536 mg/L	0.000132	0.00536 mg/L	0.000132	2.46%
QC value within limits for Cd 226.502 Recovery = 107.28%						
Ti 334.940†	11193.9	0.02013 mg/L	0.000456	0.02013 mg/L	0.000456	2.27%
QC value within limits for Ti 334.940 Recovery = 100.63%						
Ca 227.546†	138.0	0.78295 mg/L	0.102317	0.78295 mg/L	0.102317	13.07%
QC value within limits for Ca 227.546 Recovery = 97.87%						
Na 589.592†	3047.7	0.81105 mg/L	0.014942	0.81105 mg/L	0.014942	1.84%
QC value within limits for Na 589.592 Recovery = 81.11%						
K 766.490†	1076.1	0.95088 mg/L	0.033740	0.95088 mg/L	0.033740	3.55%
QC value within limits for K 766.490 Recovery = 95.09%						

QC Failed. Continue with analysis.

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Sequence No.: 8 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 6/21/2013 10:47:04 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:55 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	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1619945.0	95.169	%	4.4115				4.64%
Lu 261.542	1061532.9	96.10	%	4.431				4.61%
Ag 328.068†	4314.9	0.03086	mg/L	0.000446	0.03086	mg/L	0.000446	1.44%
QC value within limits for Ag 328.068 Recovery = 102.86%								
Al 308.215†	3695.5	0.19743	mg/L	0.015935	0.19743	mg/L	0.015935	8.07%
QC value within limits for Al 308.215 Recovery = 98.71%								
As 188.979†	20.9	0.01967	mg/L	0.002281	0.01967	mg/L	0.002281	11.60%
QC value within limits for As 188.979 Recovery = 98.34%								
Ba 233.527†	16769.4	0.20361	mg/L	0.004853	0.20361	mg/L	0.004853	2.38%
QC value within limits for Ba 233.527 Recovery = 101.81%								
Be 313.107†	8926.0	0.00494	mg/L	0.000080	0.00494	mg/L	0.000080	1.62%
QC value within limits for Be 313.107 Recovery = 98.74%								
Co 228.616†	1668.6	0.05425	mg/L	0.001364	0.05425	mg/L	0.001364	2.51%
QC value within limits for Co 228.616 Recovery = 108.50%								
Cr 267.716†	1176.6	0.02068	mg/L	0.000664	0.02068	mg/L	0.000664	3.21%
QC value within limits for Cr 267.716 Recovery = 103.40%								
Cu 324.752†	6047.2	0.02906	mg/L	0.000754	0.02906	mg/L	0.000754	2.59%
QC value within limits for Cu 324.752 Recovery = 96.86%								
Fe 273.955†	4250.9	0.20266	mg/L	0.004893	0.20266	mg/L	0.004893	2.41%
QC value within limits for Fe 273.955 Recovery = 101.33%								
Mg 279.077†	6944.0	0.50444	mg/L	0.009383	0.50444	mg/L	0.009383	1.86%
QC value within limits for Mg 279.077 Recovery = 100.89%								
Mn 257.610†	25659.1	0.05161	mg/L	0.001241	0.05161	mg/L	0.001241	2.40%
QC value within limits for Mn 257.610 Recovery = 103.22%								
Ni 231.604†	1203.8	0.05340	mg/L	0.001369	0.05340	mg/L	0.001369	2.56%
QC value within limits for Ni 231.604 Recovery = 106.80%								
Pb 220.353†	45.2	0.00999	mg/L	0.001534	0.00999	mg/L	0.001534	15.36%
QC value within limits for Pb 220.353 Recovery = 99.86%								
Sb 206.836†	35.2	0.02243	mg/L	0.002198	0.02243	mg/L	0.002198	9.80%
QC value within limits for Sb 206.836 Recovery = 112.15%								
Se 196.026†	23.1	0.03139	mg/L	0.002034	0.03139	mg/L	0.002034	6.48%
QC value within limits for Se 196.026 Recovery = 104.65%								
Tl 190.801†	20.2	0.01876	mg/L	0.001627	0.01876	mg/L	0.001627	8.67%
QC value within limits for Tl 190.801 Recovery = 93.78%								
V 292.402†	4862.0	0.04877	mg/L	0.001087	0.04877	mg/L	0.001087	2.23%
QC value within limits for V 292.402 Recovery = 97.54%								
Zn 206.200†	1336.9	0.05347	mg/L	0.001668	0.05347	mg/L	0.001668	3.12%
QC value within limits for Zn 206.200 Recovery = 106.93%								

Cd 226.502†	207.9	0.00523 mg/L	0.000170	0.00523 mg/L	0.000170	3.24%
QC value within limits for Cd 226.502 Recovery = 104.59%						
Ti 334.940†	10401.2	0.01870 mg/L	0.000456	0.01870 mg/L	0.000456	2.44%
QC value within limits for Ti 334.940 Recovery = 93.50%						
Ca 227.546†	139.6	0.79149 mg/L	0.030555	0.79149 mg/L	0.030555	3.86%
QC value within limits for Ca 227.546 Recovery = 98.94%						
Na 589.592†	3109.1	0.82739 mg/L	0.074486	0.82739 mg/L	0.074486	9.00%
QC value within limits for Na 589.592 Recovery = 82.74%						
K 766.490†	1142.8	1.0098 mg/L	0.13947	1.0098 mg/L	0.13947	13.81%
QC value within limits for K 766.490 Recovery = 100.98%						

All analyte(s) passed QC.

Sequence No.: 9 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 6/21/2013 10:50:41 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:56 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.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1460629.2	85.809	%	1.3361				1.56%
Lu 261.542	948380.3	85.85	%	1.463				1.70%
Ag 328.068†	-31.8	0.00279	mg/L	0.001015	0.00279	mg/L	0.001015	36.43%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	10464721.5	559.71	mg/L	19.791	559.71	mg/L	19.791	3.54%
QC value within limits for Al 308.215 Recovery = 111.94%								
As 188.979†	0.9	0.01110	mg/L	0.000957	0.01110	mg/L	0.000957	8.62%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	241.6	0.00293	mg/L	0.000112	0.00293	mg/L	0.000112	3.81%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-263.5	-0.00015	mg/L	0.000057	-0.00015	mg/L	0.000057	38.13%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	87.0	0.00284	mg/L	0.000105	0.00284	mg/L	0.000105	3.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	74.7	0.00131	mg/L	0.000278	0.00131	mg/L	0.000278	21.20%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-2487.5	0.00929	mg/L	0.000572	0.00929	mg/L	0.000572	6.15%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	4232787.9	200.98	mg/L	4.281	200.98	mg/L	4.281	2.13%
QC value within limits for Fe 273.955 Recovery = 100.49%								
Mg 279.077†	7078911.8	514.24	mg/L	19.880	514.24	mg/L	19.880	3.87%
QC value within limits for Mg 279.077 Recovery = 102.85%								
Mn 257.610†	37.8	0.00008	mg/L	0.000151	0.00008	mg/L	0.000151	199.11%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	44.4	0.00198	mg/L	0.000378	0.00198	mg/L	0.000378	19.15%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-150.9	-0.00525	mg/L	0.002500	-0.00525	mg/L	0.002500	47.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	81.2	0.01086	mg/L	0.009518	0.01086	mg/L	0.009518	87.68%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-53.0	0.00676	mg/L	0.005726	0.00676	mg/L	0.005726	84.69%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-29.3	-0.00348	mg/L	0.001957	-0.00348	mg/L	0.001957	56.30%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-90.2	-0.00977	mg/L	0.000194	-0.00977	mg/L	0.000194	1.98%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	392.5	0.00848	mg/L	0.000384	0.00848	mg/L	0.000384	4.52%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	421.8	-0.00048	mg/L	0.000058	-0.00048	mg/L	0.000058	12.14%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	-1500.8	-0.00021	mg/L	0.000083	-0.00021	mg/L	0.000083	40.28%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	98130.9	568.74	mg/L	11.925	568.74	mg/L	11.925	2.10%
QC value within limits for Ca 227.546 Recovery = 113.75%								
Na 589.592†	1062.3	0.28269	mg/L	0.043003	0.28269	mg/L	0.043003	15.21%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490†	296.6	0.26206	mg/L	0.033568	0.26206	mg/L	0.033568	12.81%

QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 6**
Sample ID: ICSAB **Date Collected: 6/21/2013 10:54:27 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:57 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1479701.6	86.930	%	0.4955				0.57%
Lu 261.542	960572.2	86.96	%	0.555				0.64%
Ag 328.068†	32272.1	0.23438	mg/L	0.005565	0.23438	mg/L	0.005565	2.37%
QC value within limits for Ag 328.068 Recovery = 117.19%								
Al 308.215†	10401939.9	556.35	mg/L	1.596	556.35	mg/L	1.596	0.29%
QC value within limits for Al 308.215 Recovery = 111.27%								
As 188.979†	102.6	0.10985	mg/L	0.002642	0.10985	mg/L	0.002642	2.41%
QC value within limits for As 188.979 Recovery = 109.85%								
Ba 233.527†	44812.0	0.54454	mg/L	0.018612	0.54454	mg/L	0.018612	3.42%
QC value within limits for Ba 233.527 Recovery = 108.91%								
Be 313.107†	945101.6	0.51898	mg/L	0.002342	0.51898	mg/L	0.002342	0.45%
QC value within limits for Be 313.107 Recovery = 103.80%								
Co 228.616†	14548.4	0.47328	mg/L	0.014754	0.47328	mg/L	0.014754	3.12%
QC value within limits for Co 228.616 Recovery = 94.66%								
Cr 267.716†	28157.9	0.49495	mg/L	0.014043	0.49495	mg/L	0.014043	2.84%
QC value within limits for Cr 267.716 Recovery = 98.99%								
Cu 324.752†	109797.7	0.54820	mg/L	0.016356	0.54820	mg/L	0.016356	2.98%
QC value within limits for Cu 324.752 Recovery = 109.64%								
Fe 273.955†	4195517.6	199.22	mg/L	0.508	199.22	mg/L	0.508	0.26%
QC value within limits for Fe 273.955 Recovery = 99.61%								
Mg 279.077†	7070966.9	513.66	mg/L	1.127	513.66	mg/L	1.127	0.22%
QC value within limits for Mg 279.077 Recovery = 102.73%								
Mn 257.610†	256744.7	0.51639	mg/L	0.016207	0.51639	mg/L	0.016207	3.14%
QC value within limits for Mn 257.610 Recovery = 103.28%								
Ni 231.604†	20891.1	0.92667	mg/L	0.027496	0.92667	mg/L	0.027496	2.97%
QC value within limits for Ni 231.604 Recovery = 92.67%								
Pb 220.353†	2008.2	0.47168	mg/L	0.013026	0.47168	mg/L	0.013026	2.76%
QC value within limits for Pb 220.353 Recovery = 94.34%								
Sb 206.836†	1092.2	0.65639	mg/L	0.018794	0.65639	mg/L	0.018794	2.86%
QC value within limits for Sb 206.836 Recovery = 109.40%								
Se 196.026†	311.9	0.50204	mg/L	0.024188	0.50204	mg/L	0.024188	4.82%
QC value within limits for Se 196.026 Recovery = 100.41%								
Tl 190.801†	67.8	0.08500	mg/L	0.001486	0.08500	mg/L	0.001486	1.75%
QC value within limits for Tl 190.801 Recovery = 85.00%								
V 292.402†	51802.6	0.51200	mg/L	0.016024	0.51200	mg/L	0.016024	3.13%
QC value within limits for V 292.402 Recovery = 102.40%								
Zn 206.200†	24034.9	0.95440	mg/L	0.030037	0.95440	mg/L	0.030037	3.15%
QC value within limits for Zn 206.200 Recovery = 95.44%								
Cd 226.502†	40950.3	1.0168	mg/L	0.03079	1.0168	mg/L	0.03079	3.03%
QC value within limits for Cd 226.502 Recovery = 101.68%								
Ti 334.940†	-1499.7	-0.00043	mg/L	0.000189	-0.00043	mg/L	0.000189	44.20%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	96326.5	558.20	mg/L	18.180	558.20	mg/L	18.180	3.26%
QC value within limits for Ca 227.546 Recovery = 111.64%								
Na 589.592†	101021.7	26.884	mg/L	0.1026	26.884	mg/L	0.1026	0.38%
QC value within limits for Na 589.592 Recovery = 107.54%								
K 766.490†	30415.5	26.876	mg/L	0.1355	26.876	mg/L	0.1355	0.50%
QC value within limits for K 766.490 Recovery = 107.50%								

All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 6/21/2013 10:58:09 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:57 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	1556044.5	91.415	%	3.6030				3.94%
Lu 261.542	1015995.6	91.97	%	3.663				3.98%
Ag 328.068†	183256.9	1.3125	mg/L	0.03949	1.3125	mg/L	0.03949	3.01%
QC value within limits for Ag 328.068 Recovery = 105.00%								
Al 308.215†	205799.8	10.995	mg/L	0.2938	10.995	mg/L	0.2938	2.67%
QC value within limits for Al 308.215 Recovery = 109.95%								
As 188.979†	544.0	0.51580	mg/L	0.012689	0.51580	mg/L	0.012689	2.46%
QC value within limits for As 188.979 Recovery = 103.16%								
Ba 233.527†	866643.5	10.523	mg/L	0.0934	10.523	mg/L	0.0934	0.89%
QC value within limits for Ba 233.527 Recovery = 105.23%								
Be 313.107†	461910.1	0.25467	mg/L	0.002314	0.25467	mg/L	0.002314	0.91%
QC value within limits for Be 313.107 Recovery = 101.87%								
Co 228.616†	81425.0	2.6482	mg/L	0.08126	2.6482	mg/L	0.08126	3.07%
QC value within limits for Co 228.616 Recovery = 105.93%								
Cr 267.716†	60899.4	1.0705	mg/L	0.03252	1.0705	mg/L	0.03252	3.04%
QC value within limits for Cr 267.716 Recovery = 107.05%								
Cu 324.752†	264585.9	1.2712	mg/L	0.04042	1.2712	mg/L	0.04042	3.18%
QC value within limits for Cu 324.752 Recovery = 101.70%								
Fe 273.955†	115423.0	5.5198	mg/L	0.14240	5.5198	mg/L	0.14240	2.58%
QC value within limits for Fe 273.955 Recovery = 110.40%								
Mg 279.077†	361086.0	26.231	mg/L	0.7321	26.231	mg/L	0.7321	2.79%
QC value within limits for Mg 279.077 Recovery = 104.92%								
Mn 257.610†	1289239.7	2.5931	mg/L	0.02489	2.5931	mg/L	0.02489	0.96%
QC value within limits for Mn 257.610 Recovery = 103.72%								
Ni 231.604†	60203.9	2.6707	mg/L	0.07432	2.6707	mg/L	0.07432	2.78%
QC value within limits for Ni 231.604 Recovery = 106.83%								
Pb 220.353†	2341.2	0.51732	mg/L	0.012620	0.51732	mg/L	0.012620	2.44%
QC value within limits for Pb 220.353 Recovery = 103.46%								
Sb 206.836†	807.1	0.50841	mg/L	0.014074	0.50841	mg/L	0.014074	2.77%
QC value within limits for Sb 206.836 Recovery = 101.68%								
Se 196.026†	368.1	0.50226	mg/L	0.005609	0.50226	mg/L	0.005609	1.12%
QC value within limits for Se 196.026 Recovery = 100.45%								
Tl 190.801†	545.3	0.49983	mg/L	0.015903	0.49983	mg/L	0.015903	3.18%
QC value within limits for Tl 190.801 Recovery = 99.97%								
V 292.402†	257059.7	2.5792	mg/L	0.07594	2.5792	mg/L	0.07594	2.94%
QC value within limits for V 292.402 Recovery = 103.17%								
Zn 206.200†	68296.2	2.7314	mg/L	0.07812	2.7314	mg/L	0.07812	2.86%
QC value within limits for Zn 206.200 Recovery = 109.25%								
Cd 226.502†	10603.2	0.26702	mg/L	0.007306	0.26702	mg/L	0.007306	2.74%
QC value within limits for Cd 226.502 Recovery = 106.81%								
Ti 334.940†	283500.1	0.50960	mg/L	0.004420	0.50960	mg/L	0.004420	0.87%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4508.8	25.280	mg/L	0.6260	25.280	mg/L	0.6260	2.48%
QC value within limits for Ca 227.546 Recovery = 101.12%								
Na 589.592†	100972.3	26.871	mg/L	1.3405	26.871	mg/L	1.3405	4.99%
QC value within limits for Na 589.592 Recovery = 107.48%								
K 766.490†	30046.7	26.550	mg/L	1.3621	26.550	mg/L	1.3621	5.13%
QC value within limits for K 766.490 Recovery = 106.20%								

All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 6/21/2013 11:01:50 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:58 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	1631272.8	95.834	%	3.9952				4.17%
Lu 261.542	1070221.0	96.88	%	4.049				4.18%
Ag 328.068†	36.8	0.00026	mg/L	0.001777	0.00026	mg/L	0.001777	673.76%

QC value within limits for Ag 328.068 Recovery = Not calculated
Al 308.215† 453.9 0.02428 mg/L 0.013150 0.02428 mg/L 0.013150 54.17%
QC value within limits for Al 308.215 Recovery = Not calculated
As 188.979† 1.8 0.00167 mg/L 0.002734 0.00167 mg/L 0.002734 163.90%
QC value within limits for As 188.979 Recovery = Not calculated
Ba 233.527† 56.8 0.00069 mg/L 0.000209 0.00069 mg/L 0.000209 30.33%
QC value within limits for Ba 233.527 Recovery = Not calculated
Be 313.107† 25.6 0.00001 mg/L 0.000041 0.00001 mg/L 0.000041 283.24%
QC value within limits for Be 313.107 Recovery = Not calculated
Co 228.616† 7.8 0.00025 mg/L 0.000139 0.00025 mg/L 0.000139 54.45%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† 2.6 0.00005 mg/L 0.000137 0.00005 mg/L 0.000137 300.55%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 324.752† 302.8 0.00145 mg/L 0.000699 0.00145 mg/L 0.000699 48.06%
QC value within limits for Cu 324.752 Recovery = Not calculated
Fe 273.955† 29.6 0.00141 mg/L 0.001345 0.00141 mg/L 0.001345 95.22%
QC value within limits for Fe 273.955 Recovery = Not calculated
Mg 279.077† 71.7 0.00521 mg/L 0.003849 0.00521 mg/L 0.003849 73.90%
QC value within limits for Mg 279.077 Recovery = Not calculated
Mn 257.610† 133.0 0.00027 mg/L 0.000026 0.00027 mg/L 0.000026 9.65%
QC value within limits for Mn 257.610 Recovery = Not calculated
Ni 231.604† 7.1 0.00032 mg/L 0.000302 0.00032 mg/L 0.000302 95.30%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 6.5 0.00144 mg/L 0.001329 0.00144 mg/L 0.001329 92.02%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 8.6 0.00551 mg/L 0.001243 0.00551 mg/L 0.001243 22.58%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -1.2 -0.00166 mg/L 0.011214 -0.00166 mg/L 0.011214 674.22%
QC value within limits for Se 196.026 Recovery = Not calculated
Tl 190.801† -1.9 -0.00181 mg/L 0.001554 -0.00181 mg/L 0.001554 86.05%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† 48.2 0.00048 mg/L 0.000024 0.00048 mg/L 0.000024 4.94%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 206.200† 16.8 0.00067 mg/L 0.000467 0.00067 mg/L 0.000467 69.68%
QC value within limits for Zn 206.200 Recovery = Not calculated
Cd 226.502† 1.9 0.00005 mg/L 0.000197 0.00005 mg/L 0.000197 418.18%
QC value within limits for Cd 226.502 Recovery = Not calculated
Ti 334.940† 94.3 0.00017 mg/L 0.000179 0.00017 mg/L 0.000179 104.58%
QC value within limits for Ti 334.940 Recovery = Not calculated
Ca 227.546† 20.0 0.11406 mg/L 0.048682 0.11406 mg/L 0.048682 42.68%
QC value within limits for Ca 227.546 Recovery = Not calculated
Na 589.592† -689.1 -0.18339 mg/L 0.023807 -0.18339 mg/L 0.023807 12.98%
QC value within limits for Na 589.592 Recovery = Not calculated
K 766.490† 28.2 0.02489 mg/L 0.130919 0.02489 mg/L 0.130919 526.07%
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-72322~PBS **Date Collected: 6/21/2013 11:05:29 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:04:59 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-72322~PBS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1590215.6	93.422	%	3.6896				3.95%
Lu 261.542	1048482.9	94.91	%	3.772				3.97%
Ag 328.068†	401.5	0.00285	mg/L	0.000937	0.00285	mg/L	0.000937	32.84%
Al 308.215†	454.6	0.02431	mg/L	0.010592	0.02431	mg/L	0.010592	43.57%
As 188.979†	1.1	0.00098	mg/L	0.000972	0.00098	mg/L	0.000972	98.96%
Ba 233.527†	2.7	0.00003	mg/L	0.000106	0.00003	mg/L	0.000106	320.00%
Be 313.107†	-13.0	-0.00001	mg/L	0.000031	-0.00001	mg/L	0.000031	490.04%
Co 228.616†	4.2	0.00014	mg/L	0.000413	0.00014	mg/L	0.000413	301.67%
Cr 267.716†	21.4	0.00038	mg/L	0.000094	0.00038	mg/L	0.000094	24.96%
Cu 324.752†	432.7	0.00208	mg/L	0.000751	0.00208	mg/L	0.000751	36.11%
Fe 273.955†	424.9	0.02019	mg/L	0.000762	0.02019	mg/L	0.000762	3.78%
Mg 279.077†	36.6	0.00266	mg/L	0.003563	0.00266	mg/L	0.003563	134.09%

Mn 257.610†	207.9	0.00042	mg/L	0.000025	0.00042	mg/L	0.000025 5.93%
Ni 231.604†	-7.8	-0.00035	mg/L	0.000362	-0.00035	mg/L	0.000362 104.79%
Pb 220.353†	2.5	0.00056	mg/L	0.001020	0.00056	mg/L	0.001020 181.33%
Sb 206.836†	11.4	0.00736	mg/L	0.002448	0.00736	mg/L	0.002448 33.28%
Se 196.026†	-0.2	-0.00021	mg/L	0.003353	-0.00021	mg/L	0.003353 >999.9%
Tl 190.801†	-1.6	-0.00151	mg/L	0.001844	-0.00151	mg/L	0.001844 121.88%
V 292.402†	37.0	0.00037	mg/L	0.000304	0.00037	mg/L	0.000304 81.90%
Zn 206.200†	31.5	0.00126	mg/L	0.000206	0.00126	mg/L	0.000206 16.39%
Cd 226.502†	-6.3	-0.00016	mg/L	0.000130	-0.00016	mg/L	0.000130 81.36%
Ti 334.940†	216.4	0.00039	mg/L	0.000072	0.00039	mg/L	0.000072 18.53%
Ca 227.546†	7.8	0.04524	mg/L	0.078740	0.04524	mg/L	0.078740 174.05%
Na 589.592†	-892.7	-0.23756	mg/L	0.005815	-0.23756	mg/L	0.005815 2.45%
K 766.490†	-29.4	-0.02594	mg/L	0.049361	-0.02594	mg/L	0.049361 190.28%

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Sequence No.: 14 **Autosampler Location: 39**
Sample ID: LCS-72322~LCS **Date Collected: 6/21/2013 11:09:07 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:00 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-72322~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1562764.9	91.810	%	4.4177				4.81%
Lu 261.542	1031956.0	93.42	%	4.544				4.86%
Ag 328.068†	159766.2	1.1444	mg/L	0.01189	1.1444	mg/L	0.01189	1.04%
Al 308.215†	173360.8	9.2618	mg/L	0.12055	9.2618	mg/L	0.12055	1.30%
As 188.979†	480.1	0.45518	mg/L	0.019767	0.45518	mg/L	0.019767	4.34%
Ba 233.527†	771360.0	9.3657	mg/L	0.11671	9.3657	mg/L	0.11671	1.25%
Be 313.107†	408689.7	0.22452	mg/L	0.003575	0.22452	mg/L	0.003575	1.59%
Co 228.616†	72334.3	2.3535	mg/L	0.03179	2.3535	mg/L	0.03179	1.35%
Cr 267.716†	53592.5	0.94205	mg/L	0.014657	0.94205	mg/L	0.014657	1.56%
Cu 324.752†	234221.0	1.1253	mg/L	0.01544	1.1253	mg/L	0.01544	1.37%
Fe 273.955†	102558.1	4.9033	mg/L	0.06840	4.9033	mg/L	0.06840	1.39%
Mg 279.077†	322420.7	23.422	mg/L	0.3391	23.422	mg/L	0.3391	1.45%
Mn 257.610†	1146106.4	2.3052	mg/L	0.02957	2.3052	mg/L	0.02957	1.28%
Ni 231.604†	53040.4	2.3529	mg/L	0.02960	2.3529	mg/L	0.02960	1.26%
Pb 220.353†	2097.3	0.46314	mg/L	0.022142	0.46314	mg/L	0.022142	4.78%
Sb 206.836†	753.3	0.47476	mg/L	0.019638	0.47476	mg/L	0.019638	4.14%
Se 196.026†	315.5	0.43055	mg/L	0.014282	0.43055	mg/L	0.014282	3.32%
Tl 190.801†	477.7	0.43805	mg/L	0.019787	0.43805	mg/L	0.019787	4.52%
V 292.402†	226577.3	2.2739	mg/L	0.03186	2.2739	mg/L	0.03186	1.40%
Zn 206.200†	58277.3	2.3307	mg/L	0.03354	2.3307	mg/L	0.03354	1.44%
Cd 226.502†	9274.3	0.23366	mg/L	0.003227	0.23366	mg/L	0.003227	1.38%
Ti 334.940†	677.9	0.00109	mg/L	0.000068	0.00109	mg/L	0.000068	6.28%
Ca 227.546†	3930.7	22.032	mg/L	1.0920	22.032	mg/L	1.0920	4.96%
Na 589.592†	84074.6	22.374	mg/L	1.3898	22.374	mg/L	1.3898	6.21%
K 766.490†	25208.6	22.275	mg/L	1.4707	22.275	mg/L	1.4707	6.60%

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Sequence No.: 15 **Autosampler Location: 40**
Sample ID: M0967-01A~RS-BF-A79-0613 **Date Collected: 6/21/2013 11:12:41 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:00 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0967-01A~RS-BF-A79-0613

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1609008.0	94.526	%	0.6880				0.73%
Lu 261.542	1043854.7	94.50	%	0.667				0.71%
Ag 328.068†	196.3	0.00189	mg/L	0.001289	0.00189	mg/L	0.001289	68.07%
Al 308.215†	366410.7	19.597	mg/L	0.1723	19.597	mg/L	0.1723	0.88%
As 188.979†	9.7	0.01014	mg/L	0.002569	0.01014	mg/L	0.002569	25.35%
Ba 233.527†	5892.1	0.07163	mg/L	0.004589	0.07163	mg/L	0.004589	6.41%
Be 313.107†	-9856.5	0.00061	mg/L	0.000094	0.00061	mg/L	0.000094	15.39%

Co 228.616†	289.5	0.00256	mg/L	0.000538	0.00256	mg/L	0.000538	21.02%
Cr 267.716†	4111.9	0.07228	mg/L	0.002019	0.07228	mg/L	0.002019	2.79%
Cu 324.752†	1535.6	0.00822	mg/L	0.000713	0.00822	mg/L	0.000713	8.67%
Fe 273.955†	164615.1	7.8266	mg/L	0.05687	7.8266	mg/L	0.05687	0.73%
Mg 279.077†	3041.5	0.22095	mg/L	0.009401	0.22095	mg/L	0.009401	4.25%
Mn 257.610†	40904.4	0.08227	mg/L	0.002973	0.08227	mg/L	0.002973	3.61%
Ni 231.604†	173.5	0.00770	mg/L	0.000466	0.00770	mg/L	0.000466	6.05%
Pb 220.353†	297.2	0.06864	mg/L	0.001369	0.06864	mg/L	0.001369	2.00%
Sb 206.836†	11.8	0.00812	mg/L	0.001267	0.00812	mg/L	0.001267	15.60%
Se 196.026†	-2.7	-0.00026	mg/L	0.008997	-0.00026	mg/L	0.008997	>999.9%
Tl 190.801†	-2.6	-0.00489	mg/L	0.003027	-0.00489	mg/L	0.003027	61.95%
V 292.402†	9518.3	0.09165	mg/L	0.002883	0.09165	mg/L	0.002883	3.15%
Zn 206.200†	243.8	0.00967	mg/L	0.000901	0.00967	mg/L	0.000901	9.32%
Cd 226.502†	14.3	-0.00080	mg/L	0.000009	-0.00080	mg/L	0.000009	1.18%
Ti 334.940†	1865640.1	3.3544	mg/L	0.02470	3.3544	mg/L	0.02470	0.74%
Ca 227.546†	-11.9	0.21831	mg/L	0.026780	0.21831	mg/L	0.026780	12.27%
Na 589.592†	-810.1	-0.21557	mg/L	0.014908	-0.21557	mg/L	0.014908	6.92%
K 766.490†	1757.9	1.5533	mg/L	0.03254	1.5533	mg/L	0.03254	2.09%

Sequence No.: 16 **Autosampler Location: 41**
Sample ID: M0967-02A~RS-BF-A81-0613 **Date Collected: 6/21/2013 11:16:21 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:01 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0967-02A~RS-BF-A81-0613

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1635270.1	96.069	%	6.0740				6.32%
Lu 261.542	1058685.3	95.84	%	6.166				6.43%
Ag 328.068†	170.2	0.00166	mg/L	0.001255	0.00166	mg/L	0.001255	75.80%
Al 308.215†	353558.5	18.910	mg/L	0.1531	18.910	mg/L	0.1531	0.81%
As 188.979†	9.3	0.00949	mg/L	0.004541	0.00949	mg/L	0.004541	47.85%
Ba 233.527†	5034.1	0.06121	mg/L	0.003200	0.06121	mg/L	0.003200	5.23%
Be 313.107†	-10436.7	0.00061	mg/L	0.000356	0.00061	mg/L	0.000356	58.40%
Co 228.616†	272.8	0.00166	mg/L	0.000571	0.00166	mg/L	0.000571	34.47%
Cr 267.716†	3610.2	0.06346	mg/L	0.002449	0.06346	mg/L	0.002449	3.86%
Cu 324.752†	1234.5	0.00660	mg/L	0.001313	0.00660	mg/L	0.001313	19.89%
Fe 273.955†	131180.1	6.2385	mg/L	0.32000	6.2385	mg/L	0.32000	5.13%
Mg 279.077†	3006.5	0.21840	mg/L	0.002756	0.21840	mg/L	0.002756	1.26%
Mn 257.610†	39455.9	0.07936	mg/L	0.004140	0.07936	mg/L	0.004140	5.22%
Ni 231.604†	125.5	0.00557	mg/L	0.000401	0.00557	mg/L	0.000401	7.19%
Pb 220.353†	267.2	0.06213	mg/L	0.004745	0.06213	mg/L	0.004745	7.64%
Sb 206.836†	3.9	0.00342	mg/L	0.004868	0.00342	mg/L	0.004868	142.22%
Se 196.026†	-2.0	0.00019	mg/L	0.001152	0.00019	mg/L	0.001152	595.28%
Tl 190.801†	-1.4	-0.00405	mg/L	0.002068	-0.00405	mg/L	0.002068	51.08%
V 292.402†	8806.2	0.08437	mg/L	0.004514	0.08437	mg/L	0.004514	5.35%
Zn 206.200†	202.8	0.00801	mg/L	0.000702	0.00801	mg/L	0.000702	8.76%
Cd 226.502†	6.6	-0.00094	mg/L	0.000243	-0.00094	mg/L	0.000243	25.71%
Ti 334.940†	1963369.0	3.5301	mg/L	0.02865	3.5301	mg/L	0.02865	0.81%
Ca 227.546†	-5.2	0.19782	mg/L	0.073089	0.19782	mg/L	0.073089	36.95%
Na 589.592†	-906.6	-0.24128	mg/L	0.010653	-0.24128	mg/L	0.010653	4.42%
K 766.490†	1627.8	1.4384	mg/L	0.19705	1.4384	mg/L	0.19705	13.70%

Sequence No.: 17 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 6/21/2013 11:20:00 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:02 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	1597502.0	93.850	%	3.6548				3.89%
Lu 261.542	1043938.1	94.50	%	3.704				3.92%

Ag 328.068†	181733.3	1.3016 mg/L	0.05961	1.3016 mg/L	0.05961	4.58%
QC value within limits for Ag 328.068 Recovery = 104.13%							
Al 308.215†	200773.4	10.727 mg/L	0.5164	10.727 mg/L	0.5164	4.81%
QC value within limits for Al 308.215 Recovery = 107.27%							
As 188.979†	538.1	0.51021 mg/L	0.030799	0.51021 mg/L	0.030799	6.04%
QC value within limits for As 188.979 Recovery = 102.04%							
Ba 233.527†	858325.9	10.422 mg/L	0.0364	10.422 mg/L	0.0364	0.35%
QC value within limits for Ba 233.527 Recovery = 104.22%							
Be 313.107†	455395.5	0.25109 mg/L	0.000544	0.25109 mg/L	0.000544	0.22%
QC value within limits for Be 313.107 Recovery = 100.43%							
Co 228.616†	80586.6	2.6209 mg/L	0.12542	2.6209 mg/L	0.12542	4.79%
QC value within limits for Co 228.616 Recovery = 104.84%							
Cr 267.716†	60521.5	1.0639 mg/L	0.05099	1.0639 mg/L	0.05099	4.79%
QC value within limits for Cr 267.716 Recovery = 106.39%							
Cu 324.752†	261939.1	1.2585 mg/L	0.05871	1.2585 mg/L	0.05871	4.67%
QC value within limits for Cu 324.752 Recovery = 100.68%							
Fe 273.955†	113195.1	5.4138 mg/L	0.26132	5.4138 mg/L	0.26132	4.83%
QC value within limits for Fe 273.955 Recovery = 108.28%							
Mg 279.077†	355443.9	25.821 mg/L	1.2988	25.821 mg/L	1.2988	5.03%
QC value within limits for Mg 279.077 Recovery = 103.28%							
Mn 257.610†	1272372.8	2.5591 mg/L	0.00920	2.5591 mg/L	0.00920	0.36%
QC value within limits for Mn 257.610 Recovery = 102.37%							
Ni 231.604†	59626.3	2.6451 mg/L	0.12816	2.6451 mg/L	0.12816	4.85%
QC value within limits for Ni 231.604 Recovery = 105.80%							
Pb 220.353†	2336.9	0.51636 mg/L	0.030375	0.51636 mg/L	0.030375	5.88%
QC value within limits for Pb 220.353 Recovery = 103.27%							
Sb 206.836†	809.5	0.51002 mg/L	0.028616	0.51002 mg/L	0.028616	5.61%
QC value within limits for Sb 206.836 Recovery = 102.00%							
Se 196.026†	368.2	0.50246 mg/L	0.028844	0.50246 mg/L	0.028844	5.74%
QC value within limits for Se 196.026 Recovery = 100.49%							
Tl 190.801†	543.1	0.49780 mg/L	0.029052	0.49780 mg/L	0.029052	5.84%
QC value within limits for Tl 190.801 Recovery = 99.56%							
V 292.402†	255624.6	2.5649 mg/L	0.12487	2.5649 mg/L	0.12487	4.87%
QC value within limits for V 292.402 Recovery = 102.59%							
Zn 206.200†	67428.7	2.6967 mg/L	0.13619	2.6967 mg/L	0.13619	5.05%
QC value within limits for Zn 206.200 Recovery = 107.87%							
Cd 226.502†	10462.7	0.26349 mg/L	0.013440	0.26349 mg/L	0.013440	5.10%
QC value within limits for Cd 226.502 Recovery = 105.40%							
Ti 334.940†	282236.8	0.50733 mg/L	0.000300	0.50733 mg/L	0.000300	0.06%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	4470.6	25.064 mg/L	1.5037	25.064 mg/L	1.5037	6.00%
QC value within limits for Ca 227.546 Recovery = 100.26%							
Na 589.592†	92859.5	24.712 mg/L	0.7271	24.712 mg/L	0.7271	2.94%
QC value within limits for Na 589.592 Recovery = 98.85%							
K 766.490†	27714.6	24.490 mg/L	0.7291	24.490 mg/L	0.7291	2.98%
QC value within limits for K 766.490 Recovery = 97.96%							

All analyte(s) passed QC.

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Sequence No.: 18 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 6/21/2013 11:23:41 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:03 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	1634600.7	96.030	%	2.4990				2.60%
Lu 261.542	1071898.5	97.03	%	2.513				2.59%
Ag 328.068†	54.4	0.00039	mg/L	0.000900	0.00039	mg/L	0.000900	231.64%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	305.0	0.01631	mg/L	0.007424	0.01631	mg/L	0.007424	45.51%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.1	0.00195	mg/L	0.000543	0.00195	mg/L	0.000543	27.84%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	103.9	0.00126	mg/L	0.000872	0.00126	mg/L	0.000872	69.10%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	91.8	0.00005	mg/L	0.000055	0.00005	mg/L	0.000055	106.92%

QC value within limits for Be 313.107 Recovery = Not calculated
Co 228.616† 14.2 0.00046 mg/L 0.000243 0.00046 mg/L 0.000243 52.64%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† 3.4 0.00006 mg/L 0.000391 0.00006 mg/L 0.000391 647.06%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 324.752† 257.0 0.00123 mg/L 0.000993 0.00123 mg/L 0.000993 80.51%
QC value within limits for Cu 324.752 Recovery = Not calculated
Fe 273.955† 15.6 0.00075 mg/L 0.000814 0.00075 mg/L 0.000814 108.85%
QC value within limits for Fe 273.955 Recovery = Not calculated
Mg 279.077† 85.1 0.00618 mg/L 0.003009 0.00618 mg/L 0.003009 48.68%
QC value within limits for Mg 279.077 Recovery = Not calculated
Mn 257.610† 323.2 0.00065 mg/L 0.000324 0.00065 mg/L 0.000324 49.81%
QC value within limits for Mn 257.610 Recovery = Not calculated
Ni 231.604† 11.0 0.00049 mg/L 0.000308 0.00049 mg/L 0.000308 62.93%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† -0.5 -0.00011 mg/L 0.001183 -0.00011 mg/L 0.001183 >999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 3.4 0.00219 mg/L 0.001294 0.00219 mg/L 0.001294 59.24%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 0.4 0.00049 mg/L 0.004646 0.00049 mg/L 0.004646 951.97%
QC value within limits for Se 196.026 Recovery = Not calculated
Tl 190.801† -2.8 -0.00268 mg/L 0.000918 -0.00268 mg/L 0.000918 34.27%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† 52.0 0.00052 mg/L 0.000361 0.00052 mg/L 0.000361 69.33%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 206.200† 18.6 0.00074 mg/L 0.000442 0.00074 mg/L 0.000442 59.54%
QC value within limits for Zn 206.200 Recovery = Not calculated
Cd 226.502† 4.8 0.00012 mg/L 0.000097 0.00012 mg/L 0.000097 80.28%
QC value within limits for Cd 226.502 Recovery = Not calculated
Ti 334.940† 217.2 0.00039 mg/L 0.000095 0.00039 mg/L 0.000095 24.21%
QC value within limits for Ti 334.940 Recovery = Not calculated
Ca 227.546† 1.3 0.00734 mg/L 0.063306 0.00734 mg/L 0.063306 862.84%
QC value within limits for Ca 227.546 Recovery = Not calculated
Na 589.592† -935.1 -0.24885 mg/L 0.006404 -0.24885 mg/L 0.006404 2.57%
QC value within limits for Na 589.592 Recovery = Not calculated
K 766.490† -12.1 -0.01068 mg/L 0.068700 -0.01068 mg/L 0.068700 643.04%
QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 19 **Autosampler Location: 42**
Sample ID: M0975-04A~COMP-A-061313 **Date Collected: 6/21/2013 11:27:20 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:03 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-04A~COMP-A-061313

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1599028.5	93.940	%	1.7724				1.89%
Lu 261.542	960483.3	86.95	%	1.022				1.18%
Ag 328.068†	-963.0	0.00267	mg/L	0.000676	0.00267	mg/L	0.000676	25.33%
Al 308.215†	6305521.2	337.25	mg/L	4.551	337.25	mg/L	4.551	1.35%
As 188.979†	252.2	0.28879	mg/L	0.011465	0.28879	mg/L	0.011465	3.97%
Ba 233.527†	354022.1	4.2977	mg/L	0.06832	4.2977	mg/L	0.06832	1.59%
Be 313.107†	26180.4	0.01559	mg/L	0.000301	0.01559	mg/L	0.000301	1.93%
Co 228.616†	8315.6	0.26916	mg/L	0.006408	0.26916	mg/L	0.006408	2.38%
Cr 267.716†	21488.1	0.37153	mg/L	0.009154	0.37153	mg/L	0.009154	2.46%
Cu 324.752†	52170.6	0.30623	mg/L	0.004657	0.30623	mg/L	0.004657	1.52%
Fe 273.955†	11108368.7	527.69	mg/L	6.911	527.69	mg/L	6.911	1.31%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	970836.9	70.525	mg/L	1.1802	70.525	mg/L	1.1802	1.67%
Mn 257.610†	7787405.8	15.663	mg/L	0.2062	15.663	mg/L	0.2062	1.32%
Ni 231.604†	10768.5	0.47768	mg/L	0.011986	0.47768	mg/L	0.011986	2.51%
Pb 220.353†	1557.4	0.34293	mg/L	0.010313	0.34293	mg/L	0.010313	3.01%
Sb 206.836†	89.8	0.00461	mg/L	0.004376	0.00461	mg/L	0.004376	94.91%
Se 196.026†	-119.3	0.01603	mg/L	0.006084	0.01603	mg/L	0.006084	37.96%
Tl 190.801†	-30.1	0.00242	mg/L	0.000358	0.00242	mg/L	0.000358	14.83%
V 292.402†	39806.3	0.37617	mg/L	0.006486	0.37617	mg/L	0.006486	1.72%

Zn 206.200†	38970.7	1.5537	mg/L	0.02874	1.5537	mg/L	0.02874	1.85%
Cd 226.502†	1150.8	-0.00004	mg/L	0.000791	-0.00004	mg/L	0.000791	>999.9%
Ti 334.940†	371110.7	0.66559	mg/L	0.012631	0.66559	mg/L	0.012631	1.90%
Ca 227.546†	4730.5	46.819	mg/L	0.8964	46.819	mg/L	0.8964	1.91%
Na 589.592†	921.0	0.24509	mg/L	0.056642	0.24509	mg/L	0.056642	23.11%
K 766.490†	26546.6	23.458	mg/L	1.3962	23.458	mg/L	1.3962	5.95%

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Sequence No.: 20 **Autosampler Location: 43**
Sample ID: M0975-07A~COMP-B-061313 **Date Collected: 6/21/2013 11:31:07 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:04 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-07A~COMP-B-061313

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1662321.8	97.659	%	0.1369				0.14%
Lu 261.542	962650.6	87.14	%	0.571				0.66%
Ag 328.068†	-1408.7	0.00322	mg/L	0.000344	0.00322	mg/L	0.000344	10.68%
Al 308.215†	8433285.6	451.06	mg/L	2.162	451.06	mg/L	2.162	0.48%
As 188.979†	341.1	0.39351	mg/L	0.008061	0.39351	mg/L	0.008061	2.05%
Ba 233.527†	540806.5	6.5652	mg/L	0.04524	6.5652	mg/L	0.04524	0.69%
Be 313.107†	36104.4	0.02110	mg/L	0.000195	0.02110	mg/L	0.000195	0.92%
Co 228.616†	11673.5	0.37833	mg/L	0.007614	0.37833	mg/L	0.007614	2.01%
Cr 267.716†	28340.0	0.48976	mg/L	0.010159	0.48976	mg/L	0.010159	2.07%
Cu 324.752†	81553.8	0.46971	mg/L	0.003516	0.46971	mg/L	0.003516	0.75%
Fe 273.955†	15575588.9	739.90	mg/L	3.457	739.90	mg/L	3.457	0.47%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1369965.7	99.519	mg/L	0.7092	99.519	mg/L	0.7092	0.71%
Mn 257.610†	10568043.9	21.256	mg/L	0.0909	21.256	mg/L	0.0909	0.43%
Ni 231.604†	16092.7	0.71385	mg/L	0.013700	0.71385	mg/L	0.013700	1.92%
Pb 220.353†	2115.2	0.46421	mg/L	0.009836	0.46421	mg/L	0.009836	2.12%
Sb 206.836†	116.1	0.00145	mg/L	0.004541	0.00145	mg/L	0.004541	313.28%
Se 196.026†	-178.5	0.00662	mg/L	0.007293	0.00662	mg/L	0.007293	110.15%
Tl 190.801†	-43.5	0.00241	mg/L	0.002217	0.00241	mg/L	0.002217	91.90%
V 292.402†	53206.6	0.50147	mg/L	0.004580	0.50147	mg/L	0.004580	0.91%
Zn 206.200†	52459.7	2.0915	mg/L	0.01707	2.0915	mg/L	0.01707	0.82%
Cd 226.502†	1720.1	0.00269	mg/L	0.001307	0.00269	mg/L	0.001307	48.60%
Ti 334.940†	387142.9	0.69380	mg/L	0.008801	0.69380	mg/L	0.008801	1.27%
Ca 227.546†	5379.8	58.481	mg/L	0.9086	58.481	mg/L	0.9086	1.55%
Na 589.592†	1402.7	0.37330	mg/L	0.043472	0.37330	mg/L	0.043472	11.65%
K 766.490†	31198.6	27.568	mg/L	0.4447	27.568	mg/L	0.4447	1.61%

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Sequence No.: 21 **Autosampler Location: 44**
Sample ID: M0975-11A~COMP-C-061313 **Date Collected: 6/21/2013 11:35:00 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:05 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-11A~COMP-C-061313

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1663752.2	97.743	%	5.2491				5.37%
Lu 261.542	994940.4	90.07	%	2.586				2.87%
Ag 328.068†	-890.6	0.00440	mg/L	0.000941	0.00440	mg/L	0.000941	21.40%
Al 308.215†	6788505.9	363.09	mg/L	1.602	363.09	mg/L	1.602	0.44%
As 188.979†	322.6	0.36169	mg/L	0.014760	0.36169	mg/L	0.014760	4.08%
Ba 233.527†	503507.6	6.1123	mg/L	0.14143	6.1123	mg/L	0.14143	2.31%
Be 313.107†	29199.7	0.01731	mg/L	0.000442	0.01731	mg/L	0.000442	2.55%
Co 228.616†	9363.9	0.30320	mg/L	0.009065	0.30320	mg/L	0.009065	2.99%
Cr 267.716†	22978.2	0.39354	mg/L	0.012345	0.39354	mg/L	0.012345	3.14%
Cu 324.752†	70479.8	0.40151	mg/L	0.005101	0.40151	mg/L	0.005101	1.27%
Fe 273.955†	12581558.4	597.67	mg/L	3.327	597.67	mg/L	3.327	0.56%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1088135.6	79.046	mg/L	2.1365	79.046	mg/L	2.1365	2.70%

Mn 257.610†	12930113.8	26.007	mg/L	0.1400	26.007	mg/L	0.1400	0.54%
Concentration greater than upper limit for Mn 257.610.								
Ni 231.604†	12204.0	0.54136	mg/L	0.016375	0.54136	mg/L	0.016375	3.02%
Pb 220.353†	2303.7	0.50529	mg/L	0.016158	0.50529	mg/L	0.016158	3.20%
Sb 206.836†	93.0	0.00084	mg/L	0.004036	0.00084	mg/L	0.004036	480.49%
Se 196.026†	-130.6	0.02008	mg/L	0.010904	0.02008	mg/L	0.010904	54.29%
Tl 190.801†	-27.8	0.00634	mg/L	0.003298	0.00634	mg/L	0.003298	51.99%
V 292.402†	43889.0	0.41406	mg/L	0.009551	0.41406	mg/L	0.009551	2.31%
Zn 206.200†	47700.7	1.9023	mg/L	0.04829	1.9023	mg/L	0.04829	2.54%
Cd 226.502†	1445.3	0.00352	mg/L	0.001250	0.00352	mg/L	0.001250	35.48%
Ti 334.940†	388701.9	0.69715	mg/L	0.012609	0.69715	mg/L	0.012609	1.81%
Ca 227.546†	6108.5	57.322	mg/L	1.2321	57.322	mg/L	1.2321	2.15%
Na 589.592†	1079.8	0.28736	mg/L	0.052020	0.28736	mg/L	0.052020	18.10%
K 766.490†	31147.9	27.523	mg/L	2.5305	27.523	mg/L	2.5305	9.19%

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Sequence No.: 22 **Autosampler Location: 45**
Sample ID: M0975-14A~COMP-D-061313 **Date Collected: 6/21/2013 11:38:47 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:05 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-14A~COMP-D-061313

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1659337.9	97.483	%	0.5950				0.61%
Lu 261.542	954086.0	86.37	%	0.479				0.56%
Ag 328.068†	-1329.7	0.00306	mg/L	0.000515	0.00306	mg/L	0.000515	16.83%
Al 308.215†	7803652.9	417.38	mg/L	7.089	417.38	mg/L	7.089	1.70%
As 188.979†	347.6	0.39550	mg/L	0.000963	0.39550	mg/L	0.000963	0.24%
Ba 233.527†	506646.0	6.1505	mg/L	0.08302	6.1505	mg/L	0.08302	1.35%
Be 313.107†	34003.0	0.01995	mg/L	0.000299	0.01995	mg/L	0.000299	1.50%
Co 228.616†	10460.3	0.33886	mg/L	0.002205	0.33886	mg/L	0.002205	0.65%
Cr 267.716†	25992.0	0.44818	mg/L	0.002177	0.44818	mg/L	0.002177	0.49%
Cu 324.752†	83746.8	0.47593	mg/L	0.006191	0.47593	mg/L	0.006191	1.30%
Fe 273.955†	14719259.8	699.22	mg/L	11.117	699.22	mg/L	11.117	1.59%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1293747.5	93.982	mg/L	1.3332	93.982	mg/L	1.3332	1.42%
Mn 257.610†	10925320.5	21.974	mg/L	0.3691	21.974	mg/L	0.3691	1.68%
Ni 231.604†	14281.9	0.63353	mg/L	0.003156	0.63353	mg/L	0.003156	0.50%
Pb 220.353†	2227.3	0.48837	mg/L	0.001112	0.48837	mg/L	0.001112	0.23%
Sb 206.836†	100.3	-0.00402	mg/L	0.002868	-0.00402	mg/L	0.002868	71.34%
Se 196.026†	-158.3	0.01915	mg/L	0.011264	0.01915	mg/L	0.011264	58.83%
Tl 190.801†	-40.1	0.00273	mg/L	0.005251	0.00273	mg/L	0.005251	192.56%
V 292.402†	50427.6	0.47528	mg/L	0.007180	0.47528	mg/L	0.007180	1.51%
Zn 206.200†	49357.3	1.9679	mg/L	0.02634	1.9679	mg/L	0.02634	1.34%
Cd 226.502†	1601.0	0.00189	mg/L	0.000782	0.00189	mg/L	0.000782	41.29%
Ti 334.940†	388399.7	0.69625	mg/L	0.007006	0.69625	mg/L	0.007006	1.01%
Ca 227.546†	5318.3	56.611	mg/L	0.4404	56.611	mg/L	0.4404	0.78%
Na 589.592†	1185.7	0.31555	mg/L	0.024217	0.31555	mg/L	0.024217	7.67%
K 766.490†	30310.7	26.784	mg/L	0.4205	26.784	mg/L	0.4205	1.57%

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Sequence No.: 23 **Autosampler Location: 46**
Sample ID: M0975-18A~COMP-E-061313 **Date Collected: 6/21/2013 11:42:36 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:06 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-18A~COMP-E-061313

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1597222.7	93.834	%	0.6280				0.67%
Lu 261.542	954045.9	86.37	%	0.419				0.48%
Ag 328.068†	-1123.0	0.00396	mg/L	0.001386	0.00396	mg/L	0.001386	35.02%
Al 308.215†	7285258.5	389.66	mg/L	0.656	389.66	mg/L	0.656	0.17%
As 188.979†	315.9	0.36280	mg/L	0.004018	0.36280	mg/L	0.004018	1.11%

Ba 233.527†	498754.2	6.0547	mg/L	0.03652	6.0547	mg/L	0.03652	0.60%
Be 313.107†	29806.6	0.01762	mg/L	0.000073	0.01762	mg/L	0.000073	0.41%
Co 228.616†	10334.7	0.33481	mg/L	0.003550	0.33481	mg/L	0.003550	1.06%
Cr 267.716†	24370.7	0.41925	mg/L	0.004460	0.41925	mg/L	0.004460	1.06%
Cu 324.752†	85874.8	0.48282	mg/L	0.002630	0.48282	mg/L	0.002630	0.54%
Fe 273.955†	14055818.2	667.71	mg/L	1.014	667.71	mg/L	1.014	0.15%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1182395.6	85.893	mg/L	0.6286	85.893	mg/L	0.6286	0.73%
Mn 257.610†	11436784.7	23.003	mg/L	0.0327	23.003	mg/L	0.0327	0.14%
Ni 231.604†	13325.3	0.59110	mg/L	0.006620	0.59110	mg/L	0.006620	1.12%
Pb 220.353†	2212.2	0.48434	mg/L	0.005169	0.48434	mg/L	0.005169	1.07%
Sb 206.836†	93.4	-0.00482	mg/L	0.002197	-0.00482	mg/L	0.002197	45.60%
Se 196.026†	-155.8	0.01095	mg/L	0.003504	0.01095	mg/L	0.003504	32.01%
Tl 190.801†	-33.9	0.00599	mg/L	0.008047	0.00599	mg/L	0.008047	134.43%
V 292.402†	47887.0	0.45113	mg/L	0.002549	0.45113	mg/L	0.002549	0.56%
Zn 206.200†	49316.1	1.9665	mg/L	0.01259	1.9665	mg/L	0.01259	0.64%
Cd 226.502†	1563.3	0.00266	mg/L	0.000507	0.00266	mg/L	0.000507	19.05%
Ti 334.940†	381227.5	0.68343	mg/L	0.005056	0.68343	mg/L	0.005056	0.74%
Ca 227.546†	3886.0	47.239	mg/L	0.4093	47.239	mg/L	0.4093	0.87%
Na 589.592†	1134.9	0.30203	mg/L	0.022891	0.30203	mg/L	0.022891	7.58%
K 766.490†	28125.8	24.853	mg/L	0.4467	24.853	mg/L	0.4467	1.80%

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Sequence No.: 24 **Autosampler Location: 47**
Sample ID: M0975-18ADUP~COMP-E-0613 **Date Collected: 6/21/2013 11:46:23 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:07 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-18ADUP~COMP-E-0613

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1600744.4	94.041	%	0.7615				0.81%
Lu 261.542	975610.4	88.32	%	1.608				1.82%
Ag 328.068†	-1232.3	0.00262	mg/L	0.000609	0.00262	mg/L	0.000609	23.29%
Al 308.215†	7297357.4	390.30	mg/L	4.194	390.30	mg/L	4.194	1.07%
As 188.979†	293.3	0.33780	mg/L	0.008790	0.33780	mg/L	0.008790	2.60%
Ba 233.527†	445353.5	5.4065	mg/L	0.08960	5.4065	mg/L	0.08960	1.66%
Be 313.107†	27549.9	0.01641	mg/L	0.000306	0.01641	mg/L	0.000306	1.87%
Co 228.616†	9526.9	0.30849	mg/L	0.006116	0.30849	mg/L	0.006116	1.98%
Cr 267.716†	24484.9	0.42330	mg/L	0.008571	0.42330	mg/L	0.008571	2.02%
Cu 324.752†	70482.6	0.40507	mg/L	0.006541	0.40507	mg/L	0.006541	1.61%
Fe 273.955†	13286716.3	631.17	mg/L	6.731	631.17	mg/L	6.731	1.07%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1178976.4	85.645	mg/L	1.4421	85.645	mg/L	1.4421	1.68%
Mn 257.610†	8930537.0	17.962	mg/L	0.1867	17.962	mg/L	0.1867	1.04%
Ni 231.604†	13076.6	0.58006	mg/L	0.011973	0.58006	mg/L	0.011973	2.06%
Pb 220.353†	2025.3	0.44530	mg/L	0.010745	0.44530	mg/L	0.010745	2.41%
Sb 206.836†	83.9	-0.00877	mg/L	0.003829	-0.00877	mg/L	0.003829	43.65%
Se 196.026†	-143.7	0.01768	mg/L	0.015053	0.01768	mg/L	0.015053	85.12%
Tl 190.801†	-32.4	0.00637	mg/L	0.000728	0.00637	mg/L	0.000728	11.42%
V 292.402†	47477.3	0.44863	mg/L	0.008059	0.44863	mg/L	0.008059	1.80%
Zn 206.200†	45352.9	1.8082	mg/L	0.03310	1.8082	mg/L	0.03310	1.83%
Cd 226.502†	1426.3	0.00123	mg/L	0.000335	0.00123	mg/L	0.000335	27.33%
Ti 334.940†	389328.0	0.69797	mg/L	0.012802	0.69797	mg/L	0.012802	1.83%
Ca 227.546†	3598.9	44.227	mg/L	0.5702	44.227	mg/L	0.5702	1.29%
Na 589.592†	1178.6	0.31365	mg/L	0.018993	0.31365	mg/L	0.018993	6.06%
K 766.490†	28483.7	25.169	mg/L	0.2310	25.169	mg/L	0.2310	0.92%

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Sequence No.: 25 **Autosampler Location: 48**
Sample ID: M0975-18AMS~COMP-E-06131 **Date Collected: 6/21/2013 11:50:10 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:08 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-18AMS~COMP-E-06131

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1587718.1	93.276	%	0.8585				0.92%
Lu 261.542	962391.0	87.12	%	1.925				2.21%
Ag 328.068†	171556.4	1.2388	mg/L	0.02774	1.2388	mg/L	0.02774	2.24%
Al 308.215†	7115551.2	380.57	mg/L	2.694	380.57	mg/L	2.694	0.71%
As 188.979†	766.0	0.78147	mg/L	0.016708	0.78147	mg/L	0.016708	2.14%
Ba 233.527†	1217707.8	14.784	mg/L	0.3273	14.784	mg/L	0.3273	2.21%
Be 313.107†	450889.1	0.24916	mg/L	0.005333	0.24916	mg/L	0.005333	2.14%
Co 228.616†	83072.4	2.7012	mg/L	0.06273	2.7012	mg/L	0.06273	2.32%
Cr 267.716†	77501.6	1.3547	mg/L	0.02972	1.3547	mg/L	0.02972	2.19%
Cu 324.752†	330859.0	1.6512	mg/L	0.03721	1.6512	mg/L	0.03721	2.25%
Fe 273.955†	12448763.6	591.39	mg/L	3.866	591.39	mg/L	3.866	0.65%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1442986.3	104.82	mg/L	2.332	104.82	mg/L	2.332	2.22%
Mn 257.610†	10664926.1	21.451	mg/L	0.1291	21.451	mg/L	0.1291	0.60%
Ni 231.604†	66340.1	2.9429	mg/L	0.06876	2.9429	mg/L	0.06876	2.34%
Pb 220.353†	4028.5	0.88802	mg/L	0.018161	0.88802	mg/L	0.018161	2.05%
Sb 206.836†	430.9	0.20818	mg/L	0.007486	0.20818	mg/L	0.007486	3.60%
Se 196.026†	186.9	0.45309	mg/L	0.009015	0.45309	mg/L	0.009015	1.99%
Tl 190.801†	438.6	0.43455	mg/L	0.011786	0.43455	mg/L	0.011786	2.71%
V 292.402†	272788.7	2.7116	mg/L	0.06262	2.7116	mg/L	0.06262	2.31%
Zn 206.200†	103317.0	4.1266	mg/L	0.09303	4.1266	mg/L	0.09303	2.25%
Cd 226.502†	10609.1	0.23503	mg/L	0.006302	0.23503	mg/L	0.006302	2.68%
Ti 334.940†	450273.7	0.80757	mg/L	0.022864	0.80757	mg/L	0.022864	2.83%
Ca 227.546†	8086.8	67.758	mg/L	0.9769	67.758	mg/L	0.9769	1.44%
Na 589.592†	86142.1	22.924	mg/L	0.4105	22.924	mg/L	0.4105	1.79%
K 766.490†	50491.1	44.616	mg/L	0.7743	44.616	mg/L	0.7743	1.74%

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Sequence No.: 26 **Autosampler Location: 49**
Sample ID: M0975-18ASD~COMP-E-061313 **Date Collected: 6/21/2013 11:53:58 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:08 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-18ASD~COMP-E-061313

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1629080.3	95.706	%	3.8420				4.01%
Lu 261.542	1047713.4	94.85	%	3.872				4.08%
Ag 328.068†	-94.0	0.00190	mg/L	0.000788	0.00190	mg/L	0.000788	41.56%
Al 308.215†	1426760.0	76.311	mg/L	0.2973	76.311	mg/L	0.2973	0.39%
As 188.979†	62.3	0.07314	mg/L	0.002835	0.07314	mg/L	0.002835	3.88%
Ba 233.527†	99338.0	1.2059	mg/L	0.05257	1.2059	mg/L	0.05257	4.36%
Be 313.107†	6268.6	0.00369	mg/L	0.000208	0.00369	mg/L	0.000208	5.64%
Co 228.616†	2146.6	0.06956	mg/L	0.003409	0.06956	mg/L	0.003409	4.90%
Cr 267.716†	4856.3	0.08343	mg/L	0.004045	0.08343	mg/L	0.004045	4.85%
Cu 324.752†	16650.7	0.09531	mg/L	0.004707	0.09531	mg/L	0.004707	4.94%
Fe 273.955†	3063843.6	145.55	mg/L	0.638	145.55	mg/L	0.638	0.44%
Mg 279.077†	238466.8	17.323	mg/L	0.7003	17.323	mg/L	0.7003	4.04%
Mn 257.610†	2415303.7	4.8579	mg/L	0.02593	4.8579	mg/L	0.02593	0.53%
Ni 231.604†	2749.7	0.12198	mg/L	0.006299	0.12198	mg/L	0.006299	5.16%
Pb 220.353†	456.3	0.09931	mg/L	0.004700	0.09931	mg/L	0.004700	4.73%
Sb 206.836†	25.7	0.00295	mg/L	0.007071	0.00295	mg/L	0.007071	239.70%
Se 196.026†	-31.2	0.00585	mg/L	0.009074	0.00585	mg/L	0.009074	155.17%
Tl 190.801†	-11.9	-0.00284	mg/L	0.002245	-0.00284	mg/L	0.002245	79.16%
V 292.402†	9494.3	0.08887	mg/L	0.005551	0.08887	mg/L	0.005551	6.25%
Zn 206.200†	9971.0	0.39763	mg/L	0.017982	0.39763	mg/L	0.017982	4.52%
Cd 226.502†	307.0	-0.00027	mg/L	0.000447	-0.00027	mg/L	0.000447	167.31%
Ti 334.940†	74557.0	0.13366	mg/L	0.004731	0.13366	mg/L	0.004731	3.54%
Ca 227.546†	747.5	9.7289	mg/L	0.27475	9.7289	mg/L	0.27475	2.82%
Na 589.592†	-586.0	-0.15595	mg/L	0.003823	-0.15595	mg/L	0.003823	2.45%
K 766.490†	5869.8	5.1867	mg/L	0.27090	5.1867	mg/L	0.27090	5.22%

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Sequence No.: 27 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 6/21/2013 11:57:46 AM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:09 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	1599155.6	93.948	%	3.1951				3.40%
Lu 261.542	1058249.9	95.80	%	3.293				3.44%
Ag 328.068†	176939.6	1.2673	mg/L	0.02629	1.2673	mg/L	0.02629	2.07%
QC value within limits for Ag 328.068 Recovery = 101.38%								
Al 308.215†	193116.6	10.317	mg/L	0.2270	10.317	mg/L	0.2270	2.20%
QC value within limits for Al 308.215 Recovery = 103.17%								
As 188.979†	522.7	0.49550	mg/L	0.019730	0.49550	mg/L	0.019730	3.98%
QC value within limits for As 188.979 Recovery = 99.10%								
Ba 233.527†	835298.7	10.142	mg/L	0.2156	10.142	mg/L	0.2156	2.13%
QC value within limits for Ba 233.527 Recovery = 101.42%								
Be 313.107†	441551.0	0.24345	mg/L	0.005695	0.24345	mg/L	0.005695	2.34%
QC value within limits for Be 313.107 Recovery = 97.38%								
Co 228.616†	77719.4	2.5277	mg/L	0.05530	2.5277	mg/L	0.05530	2.19%
QC value within limits for Co 228.616 Recovery = 101.11%								
Cr 267.716†	58236.4	1.0237	mg/L	0.02055	1.0237	mg/L	0.02055	2.01%
QC value within limits for Cr 267.716 Recovery = 102.37%								
Cu 324.752†	255775.6	1.2289	mg/L	0.02945	1.2289	mg/L	0.02945	2.40%
QC value within limits for Cu 324.752 Recovery = 98.31%								
Fe 273.955†	109775.0	5.2503	mg/L	0.10859	5.2503	mg/L	0.10859	2.07%
QC value within limits for Fe 273.955 Recovery = 105.01%								
Mg 279.077†	346302.1	25.157	mg/L	0.5361	25.157	mg/L	0.5361	2.13%
QC value within limits for Mg 279.077 Recovery = 100.63%								
Mn 257.610†	1240564.0	2.4952	mg/L	0.05402	2.4952	mg/L	0.05402	2.17%
QC value within limits for Mn 257.610 Recovery = 99.81%								
Ni 231.604†	57594.8	2.5550	mg/L	0.05545	2.5550	mg/L	0.05545	2.17%
QC value within limits for Ni 231.604 Recovery = 102.20%								
Pb 220.353†	2260.3	0.49942	mg/L	0.018800	0.49942	mg/L	0.018800	3.76%
QC value within limits for Pb 220.353 Recovery = 99.88%								
Sb 206.836†	789.7	0.49776	mg/L	0.020675	0.49776	mg/L	0.020675	4.15%
QC value within limits for Sb 206.836 Recovery = 99.55%								
Se 196.026†	360.9	0.49243	mg/L	0.023483	0.49243	mg/L	0.023483	4.77%
QC value within limits for Se 196.026 Recovery = 98.49%								
Tl 190.801†	525.0	0.48120	mg/L	0.019857	0.48120	mg/L	0.019857	4.13%
QC value within limits for Tl 190.801 Recovery = 96.24%								
V 292.402†	248348.8	2.4918	mg/L	0.05074	2.4918	mg/L	0.05074	2.04%
QC value within limits for V 292.402 Recovery = 99.67%								
Zn 206.200†	64885.0	2.5950	mg/L	0.05628	2.5950	mg/L	0.05628	2.17%
QC value within limits for Zn 206.200 Recovery = 103.80%								
Cd 226.502†	10141.9	0.25541	mg/L	0.005478	0.25541	mg/L	0.005478	2.14%
QC value within limits for Cd 226.502 Recovery = 102.16%								
Ti 334.940†	271920.5	0.48879	mg/L	0.010717	0.48879	mg/L	0.010717	2.19%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4312.3	24.176	mg/L	0.9552	24.176	mg/L	0.9552	3.95%
QC value within limits for Ca 227.546 Recovery = 96.71%								
Na 589.592†	96672.2	25.727	mg/L	0.3601	25.727	mg/L	0.3601	1.40%
QC value within limits for Na 589.592 Recovery = 102.91%								
K 766.490†	28774.8	25.426	mg/L	0.3470	25.426	mg/L	0.3470	1.36%
QC value within limits for K 766.490 Recovery = 101.71%								

All analyte(s) passed QC.

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Sequence No.: 28 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 6/21/2013 12:01:21 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:10 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	1719821.4	101.04	%	4.462				4.42%

Lu 261.542	1123362.9	101.7 %		4.61				4.54%
Ag 328.068†	80.6	0.00057 mg/L		0.000907	0.00057 mg/L		0.000907	158.02%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	114.2	0.00611 mg/L		0.011233	0.00611 mg/L		0.011233	183.87%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	4.8	0.00447 mg/L		0.004518	0.00447 mg/L		0.004518	101.17%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	106.6	0.00129 mg/L		0.000729	0.00129 mg/L		0.000729	56.27%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	235.7	0.00013 mg/L		0.000039	0.00013 mg/L		0.000039	30.25%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	13.0	0.00042 mg/L		0.000166	0.00042 mg/L		0.000166	39.29%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	5.6	0.00010 mg/L		0.000209	0.00010 mg/L		0.000209	212.29%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	120.3	0.00058 mg/L		0.000606	0.00058 mg/L		0.000606	104.70%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	191.2	0.00909 mg/L		0.001798	0.00909 mg/L		0.001798	19.79%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	91.2	0.00663 mg/L		0.002927	0.00663 mg/L		0.002927	44.17%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	301.1	0.00061 mg/L		0.000156	0.00061 mg/L		0.000156	25.78%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	5.6	0.00025 mg/L		0.000312	0.00025 mg/L		0.000312	124.30%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-1.2	-0.00026 mg/L		0.001706	-0.00026 mg/L		0.001706	659.62%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	1.2	0.00077 mg/L		0.002414	0.00077 mg/L		0.002414	312.94%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.8	0.00106 mg/L		0.002066	0.00106 mg/L		0.002066	194.58%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-2.3	-0.00218 mg/L		0.000623	-0.00218 mg/L		0.000623	28.54%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	31.2	0.00031 mg/L		0.000218	0.00031 mg/L		0.000218	69.69%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	19.2	0.00077 mg/L		0.000268	0.00077 mg/L		0.000268	34.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	0.0	0.00000 mg/L		0.000229	0.00000 mg/L		0.000229	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	127.3	0.00023 mg/L		0.000135	0.00023 mg/L		0.000135	59.20%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	-3.5	-0.01979 mg/L		0.070684	-0.01979 mg/L		0.070684	357.17%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Na 589.592†	-1085.8	-0.28895 mg/L		0.007624	-0.28895 mg/L		0.007624	2.64%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490†	-66.3	-0.05862 mg/L		0.099814	-0.05862 mg/L		0.099814	170.28%
QC value within limits for K 766.490 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 29 **Autosampler Location: 50**
Sample ID: M0975-18APDS~COMP-E-06131 **Date Collected: 6/21/2013 12:05:00 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:10 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-18APDS~COMP-E-06131

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1614868.9	94.871	%	2.6338				2.78%
Lu 261.542	968169.3	87.64	%	2.134				2.43%
Ag 328.068†	164744.8	1.1914	mg/L	0.01133	1.1914	mg/L	0.01133	0.95%
Al 308.215†	7323173.5	391.67	mg/L	5.903	391.67	mg/L	5.903	1.51%
As 188.979†	785.6	0.80634	mg/L	0.015530	0.80634	mg/L	0.015530	1.93%
Ba 233.527†	1256122.7	15.251	mg/L	0.1461	15.251	mg/L	0.1461	0.96%
Be 313.107†	442885.5	0.24455	mg/L	0.002651	0.24455	mg/L	0.002651	1.08%
Co 228.616†	82355.5	2.6781	mg/L	0.02599	2.6781	mg/L	0.02599	0.97%
Cr 267.716†	77504.2	1.3536	mg/L	0.01416	1.3536	mg/L	0.01416	1.05%
Cu 324.752†	337964.5	1.6919	mg/L	0.01942	1.6919	mg/L	0.01942	1.15%

Fe 273.955†	13760307.7	653.70	mg/L	10.527	653.70	mg/L	10.527	1.61%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1453262.9	105.57	mg/L	0.970	105.57	mg/L	0.970	0.92%
Mn 257.610†	12106806.5	24.351	mg/L	0.3812	24.351	mg/L	0.3812	1.57%
Ni 231.604†	66141.6	2.9341	mg/L	0.02850	2.9341	mg/L	0.02850	0.97%
Pb 220.353†	4149.4	0.91246	mg/L	0.019836	0.91246	mg/L	0.019836	2.17%
Sb 206.836†	862.2	0.48152	mg/L	0.004295	0.48152	mg/L	0.004295	0.89%
Se 196.026†	173.3	0.45396	mg/L	0.010944	0.45396	mg/L	0.010944	2.41%
Tl 190.801†	427.0	0.42722	mg/L	0.008446	0.42722	mg/L	0.008446	1.98%
V 292.402†	275530.6	2.7365	mg/L	0.02843	2.7365	mg/L	0.02843	1.04%
Zn 206.200†	105918.9	4.2305	mg/L	0.04821	4.2305	mg/L	0.04821	1.14%
Cd 226.502†	10592.8	0.23122	mg/L	0.002354	0.23122	mg/L	0.002354	1.02%
Ti 334.940†	382113.6	0.68494	mg/L	0.014804	0.68494	mg/L	0.014804	2.16%
Ca 227.546†	7893.1	68.998	mg/L	1.1694	68.998	mg/L	1.1694	1.69%
Na 589.592†	84387.2	22.457	mg/L	0.4730	22.457	mg/L	0.4730	2.11%
K 766.490†	51841.5	45.809	mg/L	0.9782	45.809	mg/L	0.9782	2.14%

Sequence No.: 30 **Autosampler Location: 68**
Sample ID: M0975-04A~COMP-A-0613 20X **Date Collected: 6/21/2013 12:08:48 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:11 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-04A~COMP-A-0613 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1643092.4	96.529	%	1.4273				1.48%
Lu 261.542	1078948.3	97.67	%	1.423				1.46%
Ag 328.068†	-89.6	-0.00013	mg/L	0.000955	-0.00013	mg/L	0.000955	725.43%
Al 308.215†	293610.5	15.704	mg/L	0.0310	15.704	mg/L	0.0310	0.20%
As 188.979†	12.0	0.01414	mg/L	0.001726	0.01414	mg/L	0.001726	12.21%
Ba 233.527†	17908.1	0.21740	mg/L	0.007763	0.21740	mg/L	0.007763	3.57%
Be 313.107†	1461.4	0.00086	mg/L	0.000084	0.00086	mg/L	0.000084	9.75%
Co 228.616†	437.8	0.01418	mg/L	0.000557	0.01418	mg/L	0.000557	3.93%
Cr 267.716†	1081.6	0.01869	mg/L	0.000778	0.01869	mg/L	0.000778	4.16%
Cu 324.752†	2637.5	0.01566	mg/L	0.000937	0.01566	mg/L	0.000937	5.98%
Fe 273.955†	596853.7	28.353	mg/L	0.0508	28.353	mg/L	0.0508	0.18%
Mg 279.077†	49900.6	3.6249	mg/L	0.11260	3.6249	mg/L	0.11260	3.11%
Mn 257.610†	404636.3	0.81385	mg/L	0.002079	0.81385	mg/L	0.002079	0.26%
Ni 231.604†	555.5	0.02464	mg/L	0.000759	0.02464	mg/L	0.000759	3.08%
Pb 220.353†	79.9	0.01743	mg/L	0.000442	0.01743	mg/L	0.000442	2.53%
Sb 206.836†	6.6	0.00150	mg/L	0.004046	0.00150	mg/L	0.004046	269.31%
Se 196.026†	-4.4	0.00343	mg/L	0.008013	0.00343	mg/L	0.008013	233.59%
Tl 190.801†	-4.8	-0.00281	mg/L	0.001624	-0.00281	mg/L	0.001624	57.68%
V 292.402†	1986.7	0.01869	mg/L	0.001190	0.01869	mg/L	0.001190	6.37%
Zn 206.200†	2063.8	0.08231	mg/L	0.003480	0.08231	mg/L	0.003480	4.23%
Cd 226.502†	57.6	-0.00011	mg/L	0.000151	-0.00011	mg/L	0.000151	137.95%
Ti 334.940†	18037.9	0.03235	mg/L	0.000761	0.03235	mg/L	0.000761	2.35%
Ca 227.546†	215.9	2.2967	mg/L	0.08040	2.2967	mg/L	0.08040	3.50%
Na 589.592†	-943.3	-0.25104	mg/L	0.031473	-0.25104	mg/L	0.031473	12.54%
K 766.490†	1477.2	1.3053	mg/L	0.06560	1.3053	mg/L	0.06560	5.03%

Sequence No.: 31 **Autosampler Location: 69**
Sample ID: M0975-07A~COMP-B-0613 20X **Date Collected: 6/21/2013 12:12:27 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:12 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-07A~COMP-B-0613 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1626582.8	95.559	%	4.0796				4.27%
Lu 261.542	1067390.8	96.63	%	4.202				4.35%
Ag 328.068†	-41.9	0.00046	mg/L	0.001931	0.00046	mg/L	0.001931	420.94%
Al 308.215†	414391.9	22.164	mg/L	0.2185	22.164	mg/L	0.2185	0.99%

As 188.979†	24.4	0.02724	mg/L	0.003722	0.02724	mg/L	0.003722	13.66%
Ba 233.527†	28418.2	0.34498	mg/L	0.025315	0.34498	mg/L	0.025315	7.34%
Be 313.107†	1920.4	0.00112	mg/L	0.000044	0.00112	mg/L	0.000044	3.91%
Co 228.616†	628.4	0.02037	mg/L	0.000951	0.02037	mg/L	0.000951	4.67%
Cr 267.716†	1494.6	0.02581	mg/L	0.001724	0.02581	mg/L	0.001724	6.68%
Cu 324.752†	4054.0	0.02402	mg/L	0.002335	0.02402	mg/L	0.002335	9.72%
Fe 273.955†	907145.3	43.093	mg/L	0.3751	43.093	mg/L	0.3751	0.87%
Mg 279.077†	73226.2	5.3194	mg/L	0.38913	5.3194	mg/L	0.38913	7.32%
Mn 257.610†	583633.3	1.1739	mg/L	0.01089	1.1739	mg/L	0.01089	0.93%
Ni 231.604†	867.6	0.03849	mg/L	0.001572	0.03849	mg/L	0.001572	4.08%
Pb 220.353†	113.0	0.02454	mg/L	0.000861	0.02454	mg/L	0.000861	3.51%
Sb 206.836†	10.6	0.00281	mg/L	0.001539	0.00281	mg/L	0.001539	54.68%
Se 196.026†	-9.6	0.00137	mg/L	0.002946	0.00137	mg/L	0.002946	215.52%
Tl 190.801†	-6.9	-0.00389	mg/L	0.001606	-0.00389	mg/L	0.001606	41.29%
V 292.402†	2742.2	0.02563	mg/L	0.001654	0.02563	mg/L	0.001654	6.45%
Zn 206.200†	2875.9	0.11469	mg/L	0.005144	0.11469	mg/L	0.005144	4.48%
Cd 226.502†	91.6	-0.00006	mg/L	0.000085	-0.00006	mg/L	0.000085	144.24%
Ti 334.940†	19134.9	0.03429	mg/L	0.002515	0.03429	mg/L	0.002515	7.33%
Ca 227.546†	261.7	3.1116	mg/L	0.13854	3.1116	mg/L	0.13854	4.45%
Na 589.592†	-1001.9	-0.26662	mg/L	0.036025	-0.26662	mg/L	0.036025	13.51%
K 766.490†	1678.0	1.4827	mg/L	0.08277	1.4827	mg/L	0.08277	5.58%

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Sequence No.: 32 **Autosampler Location: 70**
Sample ID: M0975-11A~COMP-C-0613 20X **Date Collected: 6/21/2013 12:16:06 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:13 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-11A~COMP-C-0613 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1688176.6	99.177	%	1.6901				1.70%
Lu 261.542	1100344.6	99.61	%	1.779				1.79%
Ag 328.068†	34.9	0.00084	mg/L	0.001716	0.00084	mg/L	0.001716	203.53%
Al 308.215†	327213.1	17.501	mg/L	0.1267	17.501	mg/L	0.1267	0.72%
As 188.979†	20.4	0.02248	mg/L	0.002168	0.02248	mg/L	0.002168	9.64%
Ba 233.527†	25406.8	0.30843	mg/L	0.013795	0.30843	mg/L	0.013795	4.47%
Be 313.107†	1607.8	0.00094	mg/L	0.000016	0.00094	mg/L	0.000016	1.70%
Co 228.616†	505.4	0.01637	mg/L	0.000486	0.01637	mg/L	0.000486	2.97%
Cr 267.716†	1209.6	0.02069	mg/L	0.001293	0.02069	mg/L	0.001293	6.25%
Cu 324.752†	3258.1	0.01921	mg/L	0.000851	0.01921	mg/L	0.000851	4.43%
Fe 273.955†	711815.5	33.814	mg/L	0.2035	33.814	mg/L	0.2035	0.60%
Mg 279.077†	56084.4	4.0742	mg/L	0.19067	4.0742	mg/L	0.19067	4.68%
Mn 257.610†	713560.4	1.4352	mg/L	0.00860	1.4352	mg/L	0.00860	0.60%
Ni 231.604†	651.7	0.02891	mg/L	0.000307	0.02891	mg/L	0.000307	1.06%
Pb 220.353†	131.6	0.02868	mg/L	0.001842	0.02868	mg/L	0.001842	6.42%
Sb 206.836†	5.7	0.00052	mg/L	0.001583	0.00052	mg/L	0.001583	305.97%
Se 196.026†	-11.0	-0.00390	mg/L	0.004398	-0.00390	mg/L	0.004398	112.81%
Tl 190.801†	-2.2	-0.00017	mg/L	0.003626	-0.00017	mg/L	0.003626	>999.9%
V 292.402†	2181.7	0.02041	mg/L	0.001302	0.02041	mg/L	0.001302	6.38%
Zn 206.200†	2528.3	0.10085	mg/L	0.001794	0.10085	mg/L	0.001794	1.78%
Cd 226.502†	73.7	0.00000	mg/L	0.000016	0.00000	mg/L	0.000016	711.21%
Ti 334.940†	18683.6	0.03351	mg/L	0.001515	0.03351	mg/L	0.001515	4.52%
Ca 227.546†	306.1	3.0178	mg/L	0.09506	3.0178	mg/L	0.09506	3.15%
Na 589.592†	-1180.7	-0.31422	mg/L	0.000792	-0.31422	mg/L	0.000792	0.25%
K 766.490†	1483.4	1.3108	mg/L	0.12742	1.3108	mg/L	0.12742	9.72%

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Sequence No.: 33 **Autosampler Location: 71**
Sample ID: M0975-14A~COMP-D-0613 20X **Date Collected: 6/21/2013 12:19:46 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:13 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-14A~COMP-D-0613 20X

Analyte	Mean Corrected	Calib.	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	1645525.0	96.672	%	3.1751				3.28%
Lu 261.542	1082012.7	97.95	%	3.236				3.30%
Ag 328.068†	12.2	0.00078	mg/L	0.000541	0.00078	mg/L	0.000541	68.97%
Al 308.215†	379065.6	20.274	mg/L	0.0396	20.274	mg/L	0.0396	0.20%
As 188.979†	22.6	0.02524	mg/L	0.006003	0.02524	mg/L	0.006003	23.78%
Ba 233.527†	24921.1	0.30253	mg/L	0.008602	0.30253	mg/L	0.008602	2.84%
Be 313.107†	1715.8	0.00100	mg/L	0.000022	0.00100	mg/L	0.000022	2.17%
Co 228.616†	540.8	0.01753	mg/L	0.000352	0.01753	mg/L	0.000352	2.01%
Cr 267.716†	1294.9	0.02228	mg/L	0.000427	0.02228	mg/L	0.000427	1.91%
Cu 324.752†	3868.3	0.02280	mg/L	0.000736	0.02280	mg/L	0.000736	3.23%
Fe 273.955†	842694.7	40.032	mg/L	0.0965	40.032	mg/L	0.0965	0.24%
Mg 279.077†	65028.8	4.7239	mg/L	0.13439	4.7239	mg/L	0.13439	2.84%
Mn 257.610†	597652.5	1.2021	mg/L	0.00192	1.2021	mg/L	0.00192	0.16%
Ni 231.604†	727.5	0.03227	mg/L	0.001167	0.03227	mg/L	0.001167	3.62%
Pb 220.353†	120.0	0.02607	mg/L	0.001044	0.02607	mg/L	0.001044	4.01%
Sb 206.836†	3.3	-0.00160	mg/L	0.003770	-0.00160	mg/L	0.003770	235.01%
Se 196.026†	-5.7	0.00555	mg/L	0.002650	0.00555	mg/L	0.002650	47.75%
Tl 190.801†	-3.5	-0.00093	mg/L	0.000889	-0.00093	mg/L	0.000889	95.72%
V 292.402†	2438.1	0.02271	mg/L	0.000746	0.02271	mg/L	0.000746	3.29%
Zn 206.200†	2562.0	0.10216	mg/L	0.002781	0.10216	mg/L	0.002781	2.72%
Cd 226.502†	77.6	-0.00024	mg/L	0.000205	-0.00024	mg/L	0.000205	83.89%
Ti 334.940†	18222.5	0.03266	mg/L	0.001037	0.03266	mg/L	0.001037	3.18%
Ca 227.546†	243.0	2.8905	mg/L	0.07965	2.8905	mg/L	0.07965	2.76%
Na 589.592†	-1132.6	-0.30142	mg/L	0.018923	-0.30142	mg/L	0.018923	6.28%
K 766.490†	1467.1	1.2964	mg/L	0.12163	1.2964	mg/L	0.12163	9.38%

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Sequence No.: 34 **Autosampler Location: 72**
Sample ID: M0975-18A~COMP-E-0613 20X **Date Collected: 6/21/2013 12:23:26 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:14 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-18A~COMP-E-0613 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1650049.7	96.938	%	2.9542				3.05%
Lu 261.542	1078965.8	97.67	%	2.974				3.04%
Ag 328.068†	-100.8	-0.00005	mg/L	0.001702	-0.00005	mg/L	0.001702	>999.9%
Al 308.215†	356025.7	19.042	mg/L	0.0386	19.042	mg/L	0.0386	0.20%
As 188.979†	16.4	0.01927	mg/L	0.003069	0.01927	mg/L	0.003069	15.93%
Ba 233.527†	25369.5	0.30797	mg/L	0.019527	0.30797	mg/L	0.019527	6.34%
Be 313.107†	1522.1	0.00090	mg/L	0.000010	0.00090	mg/L	0.000010	1.12%
Co 228.616†	538.9	0.01746	mg/L	0.000769	0.01746	mg/L	0.000769	4.40%
Cr 267.716†	1246.7	0.02141	mg/L	0.000819	0.02141	mg/L	0.000819	3.82%
Cu 324.752†	4112.3	0.02379	mg/L	0.001626	0.02379	mg/L	0.001626	6.84%
Fe 273.955†	806022.0	38.290	mg/L	0.0737	38.290	mg/L	0.0737	0.19%
Mg 279.077†	62205.5	4.5188	mg/L	0.30226	4.5188	mg/L	0.30226	6.69%
Mn 257.610†	629470.9	1.2661	mg/L	0.00245	1.2661	mg/L	0.00245	0.19%
Ni 231.604†	704.6	0.03126	mg/L	0.001303	0.03126	mg/L	0.001303	4.17%
Pb 220.353†	116.4	0.02525	mg/L	0.002005	0.02525	mg/L	0.002005	7.94%
Sb 206.836†	1.7	-0.00244	mg/L	0.001882	-0.00244	mg/L	0.001882	77.15%
Se 196.026†	-7.6	0.00237	mg/L	0.004249	0.00237	mg/L	0.004249	179.34%
Tl 190.801†	-4.8	-0.00232	mg/L	0.002296	-0.00232	mg/L	0.002296	98.79%
V 292.402†	2336.7	0.02176	mg/L	0.001441	0.02176	mg/L	0.001441	6.62%
Zn 206.200†	2557.3	0.10199	mg/L	0.004327	0.10199	mg/L	0.004327	4.24%
Cd 226.502†	78.7	-0.00012	mg/L	0.000087	-0.00012	mg/L	0.000087	71.11%
Ti 334.940†	18821.9	0.03374	mg/L	0.002366	0.03374	mg/L	0.002366	7.01%
Ca 227.546†	178.7	2.4573	mg/L	0.17185	2.4573	mg/L	0.17185	6.99%
Na 589.592†	-1154.2	-0.30716	mg/L	0.017302	-0.30716	mg/L	0.017302	5.63%
K 766.490†	1341.3	1.1853	mg/L	0.13312	1.1853	mg/L	0.13312	11.23%

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Sequence No.: 35 **Autosampler Location: 73**
Sample ID: M0975-18ADUP~COMP-E- 20X **Date Collected: 6/21/2013 12:27:07 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:15 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Mean Data: M0975-18ADUP~COMP-E- 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1669950.4	98.107	%	3.1595				3.22%
Lu 261.542	1087825.4	98.48	%	3.220				3.27%
Ag 328.068†	15.8	0.00072	mg/L	0.001032	0.00072	mg/L	0.001032	142.91%
Al 308.215†	341969.2	18.290	mg/L	0.1671	18.290	mg/L	0.1671	0.91%
As 188.979†	18.0	0.02036	mg/L	0.002185	0.02036	mg/L	0.002185	10.73%
Ba 233.527†	21813.8	0.26481	mg/L	0.010152	0.26481	mg/L	0.010152	3.83%
Be 313.107†	1425.3	0.00084	mg/L	0.000041	0.00084	mg/L	0.000041	4.90%
Co 228.616†	490.2	0.01588	mg/L	0.000379	0.01588	mg/L	0.000379	2.39%
Cr 267.716†	1174.7	0.02028	mg/L	0.000634	0.02028	mg/L	0.000634	3.13%
Cu 324.752†	3153.2	0.01879	mg/L	0.000952	0.01879	mg/L	0.000952	5.06%
Fe 273.955†	727840.0	34.576	mg/L	0.3106	34.576	mg/L	0.3106	0.90%
Mg 279.077†	59487.4	4.3214	mg/L	0.16385	4.3214	mg/L	0.16385	3.79%
Mn 257.610†	466825.9	0.93893	mg/L	0.008531	0.93893	mg/L	0.008531	0.91%
Ni 231.604†	678.7	0.03011	mg/L	0.000864	0.03011	mg/L	0.000864	2.87%
Pb 220.353†	109.1	0.02378	mg/L	0.001528	0.02378	mg/L	0.001528	6.43%
Sb 206.836†	3.2	-0.00121	mg/L	0.002733	-0.00121	mg/L	0.002733	226.30%
Se 196.026†	-1.9	0.00900	mg/L	0.010210	0.00900	mg/L	0.010210	113.39%
Tl 190.801†	-5.2	-0.00288	mg/L	0.002177	-0.00288	mg/L	0.002177	75.72%
V 292.402†	2273.6	0.02129	mg/L	0.000896	0.02129	mg/L	0.000896	4.21%
Zn 206.200†	2344.3	0.09349	mg/L	0.003755	0.09349	mg/L	0.003755	4.02%
Cd 226.502†	72.1	-0.00008	mg/L	0.000081	-0.00008	mg/L	0.000081	95.93%
Ti 334.940†	18171.0	0.03258	mg/L	0.001283	0.03258	mg/L	0.001283	3.94%
Ca 227.546†	180.7	2.3293	mg/L	0.12125	2.3293	mg/L	0.12125	5.21%
Na 589.592†	-1119.9	-0.29803	mg/L	0.019004	-0.29803	mg/L	0.019004	6.38%
K 766.490†	1169.6	1.0335	mg/L	0.13300	1.0335	mg/L	0.13300	12.87%

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Sequence No.: 36 **Autosampler Location: 74**
Sample ID: M0975-18ASD~COMP-E- 100X **Date Collected: 6/21/2013 12:30:48 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:15 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: M0975-18ASD~COMP-E- 100X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1664206.5	97.769	%	2.8256				2.89%
Lu 261.542	1088149.2	98.51	%	2.918				2.96%
Ag 328.068†	10.4	0.00021	mg/L	0.000529	0.00021	mg/L	0.000529	256.02%
Al 308.215†	67024.0	3.5848	mg/L	0.08222	3.5848	mg/L	0.08222	2.29%
As 188.979†	1.4	0.00213	mg/L	0.004599	0.00213	mg/L	0.004599	215.69%
Ba 233.527†	4871.8	0.05914	mg/L	0.000951	0.05914	mg/L	0.000951	1.61%
Be 313.107†	358.1	0.00021	mg/L	0.000047	0.00021	mg/L	0.000047	22.47%
Co 228.616†	107.7	0.00349	mg/L	0.000134	0.00349	mg/L	0.000134	3.83%
Cr 267.716†	246.2	0.00423	mg/L	0.000110	0.00423	mg/L	0.000110	2.61%
Cu 324.752†	671.7	0.00402	mg/L	0.000169	0.00402	mg/L	0.000169	4.19%
Fe 273.955†	158835.1	7.5454	mg/L	0.03676	7.5454	mg/L	0.03676	0.49%
Mg 279.077†	11965.5	0.86921	mg/L	0.022887	0.86921	mg/L	0.022887	2.63%
Mn 257.610†	123829.6	0.24906	mg/L	0.001368	0.24906	mg/L	0.001368	0.55%
Ni 231.604†	130.1	0.00577	mg/L	0.000139	0.00577	mg/L	0.000139	2.41%
Pb 220.353†	23.6	0.00511	mg/L	0.001271	0.00511	mg/L	0.001271	24.86%
Sb 206.836†	4.8	0.00241	mg/L	0.002619	0.00241	mg/L	0.002619	108.50%
Se 196.026†	-3.9	-0.00278	mg/L	0.001196	-0.00278	mg/L	0.001196	43.05%
Tl 190.801†	-3.0	-0.00239	mg/L	0.000193	-0.00239	mg/L	0.000193	8.08%
V 292.402†	485.2	0.00454	mg/L	0.000290	0.00454	mg/L	0.000290	6.40%
Zn 206.200†	504.8	0.02013	mg/L	0.000240	0.02013	mg/L	0.000240	1.19%
Cd 226.502†	18.7	0.00006	mg/L	0.000249	0.00006	mg/L	0.000249	438.67%
Ti 334.940†	3495.6	0.00627	mg/L	0.000155	0.00627	mg/L	0.000155	2.48%
Ca 227.546†	28.3	0.44464	mg/L	0.026439	0.44464	mg/L	0.026439	5.95%
Na 589.592†	-1289.8	-0.34324	mg/L	0.016396	-0.34324	mg/L	0.016396	4.78%
K 766.490†	137.6	0.12162	mg/L	0.038034	0.12162	mg/L	0.038034	31.27%

==========

Sequence No.: 37 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 6/21/2013 12:34:29 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:16 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	1613568.1	94.794	%	1.7270				1.82%
Lu 261.542	1059637.5	95.92	%	1.800				1.88%
Ag 328.068†	176418.4	1.2636	mg/L	0.06010	1.2636	mg/L	0.06010	4.76%
QC value within limits for Ag 328.068 Recovery = 101.09%								
Al 308.215†	193354.8	10.330	mg/L	0.5551	10.330	mg/L	0.5551	5.37%
QC value within limits for Al 308.215 Recovery = 103.30%								
As 188.979†	526.2	0.49883	mg/L	0.016217	0.49883	mg/L	0.016217	3.25%
QC value within limits for As 188.979 Recovery = 99.77%								
Ba 233.527†	866731.5	10.524	mg/L	0.0868	10.524	mg/L	0.0868	0.82%
QC value within limits for Ba 233.527 Recovery = 105.24%								
Be 313.107†	457013.3	0.25197	mg/L	0.002019	0.25197	mg/L	0.002019	0.80%
QC value within limits for Be 313.107 Recovery = 100.79%								
Co 228.616†	78342.3	2.5479	mg/L	0.13525	2.5479	mg/L	0.13525	5.31%
QC value within limits for Co 228.616 Recovery = 101.92%								
Cr 267.716†	58723.9	1.0322	mg/L	0.05248	1.0322	mg/L	0.05248	5.08%
QC value within limits for Cr 267.716 Recovery = 103.22%								
Cu 324.752†	252426.9	1.2128	mg/L	0.05857	1.2128	mg/L	0.05857	4.83%
QC value within limits for Cu 324.752 Recovery = 97.02%								
Fe 273.955†	109892.4	5.2558	mg/L	0.27353	5.2558	mg/L	0.27353	5.20%
QC value within limits for Fe 273.955 Recovery = 105.12%								
Mg 279.077†	343904.9	24.982	mg/L	1.3624	24.982	mg/L	1.3624	5.45%
QC value within limits for Mg 279.077 Recovery = 99.93%								
Mn 257.610†	1283888.8	2.5823	mg/L	0.02206	2.5823	mg/L	0.02206	0.85%
QC value within limits for Mn 257.610 Recovery = 103.29%								
Ni 231.604†	57859.7	2.5667	mg/L	0.13362	2.5667	mg/L	0.13362	5.21%
QC value within limits for Ni 231.604 Recovery = 102.67%								
Pb 220.353†	2292.5	0.50656	mg/L	0.013666	0.50656	mg/L	0.013666	2.70%
QC value within limits for Pb 220.353 Recovery = 101.31%								
Sb 206.836†	803.6	0.50657	mg/L	0.015171	0.50657	mg/L	0.015171	2.99%
QC value within limits for Sb 206.836 Recovery = 101.31%								
Se 196.026†	359.4	0.49030	mg/L	0.011527	0.49030	mg/L	0.011527	2.35%
QC value within limits for Se 196.026 Recovery = 98.06%								
Tl 190.801†	531.9	0.48763	mg/L	0.016087	0.48763	mg/L	0.016087	3.30%
QC value within limits for Tl 190.801 Recovery = 97.53%								
V 292.402†	248054.1	2.4889	mg/L	0.12873	2.4889	mg/L	0.12873	5.17%
QC value within limits for V 292.402 Recovery = 99.55%								
Zn 206.200†	65064.4	2.6021	mg/L	0.13631	2.6021	mg/L	0.13631	5.24%
QC value within limits for Zn 206.200 Recovery = 104.09%								
Cd 226.502†	10155.6	0.25576	mg/L	0.013165	0.25576	mg/L	0.013165	5.15%
QC value within limits for Cd 226.502 Recovery = 102.30%								
Ti 334.940†	281559.9	0.50612	mg/L	0.004495	0.50612	mg/L	0.004495	0.89%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4361.1	24.452	mg/L	0.7283	24.452	mg/L	0.7283	2.98%
QC value within limits for Ca 227.546 Recovery = 97.81%								
Na 589.592†	93645.7	24.921	mg/L	0.2447	24.921	mg/L	0.2447	0.98%
QC value within limits for Na 589.592 Recovery = 99.68%								
K 766.490†	27744.8	24.516	mg/L	0.3846	24.516	mg/L	0.3846	1.57%
QC value within limits for K 766.490 Recovery = 98.07%								

All analyte(s) passed QC.

==========

Sequence No.: 38 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 6/21/2013 12:38:11 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:17 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	1543077.2	90.653	%	1.5392				1.70%
Lu 261.542	1018113.3	92.17	%	1.628				1.77%
Ag 328.068†	-10.8	-0.00007	mg/L	0.000986	-0.00007	mg/L	0.000986	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	308.8	0.01651	mg/L	0.005757	0.01651	mg/L	0.005757	34.87%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.7	0.00155	mg/L	0.002717	0.00155	mg/L	0.002717	175.17%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	113.6	0.00138	mg/L	0.000898	0.00138	mg/L	0.000898	65.08%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	57.9	0.00003	mg/L	0.000032	0.00003	mg/L	0.000032	99.69%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	15.1	0.00049	mg/L	0.000298	0.00049	mg/L	0.000298	60.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	18.5	0.00033	mg/L	0.000088	0.00033	mg/L	0.000088	27.12%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	114.1	0.00055	mg/L	0.000127	0.00055	mg/L	0.000127	23.15%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	66.6	0.00318	mg/L	0.000737	0.00318	mg/L	0.000737	23.17%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	66.3	0.00482	mg/L	0.001169	0.00482	mg/L	0.001169	24.26%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	203.7	0.00041	mg/L	0.000254	0.00041	mg/L	0.000254	62.08%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	2.4	0.00011	mg/L	0.000416	0.00011	mg/L	0.000416	382.02%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	11.4	0.00252	mg/L	0.000869	0.00252	mg/L	0.000869	34.46%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	4.4	0.00285	mg/L	0.003339	0.00285	mg/L	0.003339	117.10%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.2	-0.00030	mg/L	0.001464	-0.00030	mg/L	0.001464	487.48%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-2.9	-0.00270	mg/L	0.001164	-0.00270	mg/L	0.001164	43.11%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	115.5	0.00116	mg/L	0.000492	0.00116	mg/L	0.000492	42.46%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	27.3	0.00109	mg/L	0.000412	0.00109	mg/L	0.000412	37.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	-2.4	-0.00006	mg/L	0.000028	-0.00006	mg/L	0.000028	45.91%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	114.4	0.00021	mg/L	0.000129	0.00021	mg/L	0.000129	62.67%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	5.7	0.03252	mg/L	0.039253	0.03252	mg/L	0.039253	120.71%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Na 589.592†	-1191.7	-0.31713	mg/L	0.028254	-0.31713	mg/L	0.028254	8.91%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490†	2.5	0.00221	mg/L	0.078363	0.00221	mg/L	0.078363	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								

All analyte(s) passed QC.

==========

Sequence No.: 39 **Autosampler Location: 51**
Sample ID: MB-72345~PBW **Date Collected: 6/21/2013 12:41:50 PM**
Analyst: **Data Type: Reprocessed on 6/21/2013 2:05:18 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-72345~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1696894.6	99.690	%	2.8040				2.81%
Lu 261.542	1110835.5	100.6	%	2.90				2.89%
Ag 328.068†	180.0	0.00128	mg/L	0.000876	0.00128	mg/L	0.000876	68.31%
Al 308.215†	-79.8	-0.00427	mg/L	0.005199	-0.00427	mg/L	0.005199	121.71%
As 188.979†	2.8	0.00265	mg/L	0.001625	0.00265	mg/L	0.001625	61.36%
Ba 233.527†	-2.9	-0.00004	mg/L	0.000061	-0.00004	mg/L	0.000061	172.36%
Be 313.107†	111.8	0.00006	mg/L	0.000028	0.00006	mg/L	0.000028	45.41%

==========

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\mitFIMS2\Sample Information\0618b.sif
Batch ID: Null
Results Data Set: HG13061802
Results Library: C:\data-AA\mitFIMS2\Results\Results.mdb

==========

Method Loaded
Method Name: Comm Hg **Method Last Saved: 12/19/2012 4:02:38 PM**
Method Description: Hg Anallysis 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: 6/18/2013 3:11:18 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]	0.0004	0.0021	0.0004	15:12:17	Yes
2		[0.00]	0.0003	0.0036	0.0003	15:12:57	Yes
Mean:		[0.00]	0.0003				
SD:		0.00	0.0001				
%RSD:		0.00	27.11				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S0.20 **Date Collected: 6/18/2013 3:12:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0026	0.0161	0.0029	15:13:57	Yes
2		[0.2]	0.0028	0.0138	0.0031	15:14:37	Yes
Mean:		[0.2]	0.0027				
SD:		0.0	0.0001				
%RSD:		0.0	4.73				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01334 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S1.0 **Date Collected: 6/18/2013 3:14:39 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]	0.0152	0.0933	0.0155	15:15:37	Yes
2		[1]	0.0147	0.0817	0.0150	15:16:17	Yes
Mean:		[1]	0.0149				

SD: 0 0.0003
%RSD: 0 2.29
Standard number 2 applied. [1]
Correlation Coef.: 0.999295 Slope: 0.01489 Intercept: 0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S2.0 **Date Collected: 6/18/2013 3:16:19 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]	0.0299	0.1701	0.0302	15:17:16	Yes
2		[2]	0.0302	0.1743	0.0305	15:17:56	Yes
Mean:		[2]	0.0301				
SD:		0	0.0002				
%RSD:		0	0.72				

Standard number 3 applied. [2]
Correlation Coef.: 0.999842 Slope: 0.01500 Intercept: 0.00000

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S5.0 **Date Collected: 6/18/2013 3:17:58 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]	0.0753	0.4341	0.0756	15:18:56	Yes
2		[5]	0.0765	0.4392	0.0768	15:19:36	Yes
Mean:		[5]	0.0759				
SD:		0	0.0009				
%RSD:		0	1.13				

Standard number 4 applied. [5]
Correlation Coef.: 0.999959 Slope: 0.01514 Intercept: 0.00000

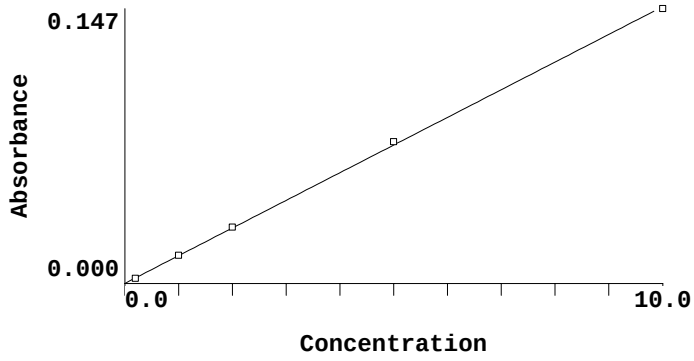
==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: S10.0 **Date Collected: 6/18/2013 3:19:38 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]	0.1482	0.8610	0.1485	15:20:35	Yes
2		[10]	0.1466	0.8575	0.1469	15:21:15	Yes
Mean:		[10]	0.1474				
SD:		0	0.0012				
%RSD:		0	0.80				

Standard number 5 applied. [10]
Correlation Coef.: 0.999856 Slope: 0.01483 Intercept: 0.00000
The calibration curve may not be linear.



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	27.1
S0.20	0.0027	0.2	0.180	0.00	4.7
S1.0	0.0149	1.0	1.008	0.00	2.3
S2.0	0.0301	2.0	2.026	0.00	0.7
S5.0	0.0759	5.0	5.114	0.00	1.1
S10.0	0.1474	10.0	9.935	0.00	0.8

Correlation Coef.: 0.999856 Slope: 0.01483 Intercept: 0.00000

==========

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 6/18/2013 3:21:18 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	4.838	4.838	0.0718	0.4183	0.0721	15:22:16	Yes
2	4.819	4.819	0.0715	0.4192	0.0718	15:22:56	Yes
Mean:	4.828	4.828	0.0716				
SD:	0.013	0.013	0.0002				
%RSD:	0.279	0.279	0.28				

QC value within limits for Hg 253.7 Recovery = 96.57%
All analyte(s) passed QC.

==========

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 6/18/2013 3:22:57 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	0.013	0.013	0.0002	0.0064	0.0005	15:23:58	Yes
2	-0.023	-0.023	-0.0003	-0.0086	-0.0000	15:24:37	Yes
Mean:	-0.005	-0.005	-0.0001				
SD:	0.025	0.025	0.0004				
%RSD:	482.2	482.2	482.17				

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-72291 **Date Collected: 6/18/2013 3:24:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-72291

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0001	0.0030	0.0002	15:25:37	Yes
2	-0.004	-0.004	-0.0001	-0.0026	0.0003	15:26:17	Yes
Mean:	-0.005	-0.005	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	19.95	19.95	19.95				

==========

Sequence No.: 10 **Autosampler Location: 18**
Sample ID: LCS-72291 **Date Collected: 6/18/2013 3:26:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LCS-72291

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.449	4.449	0.0660	0.3912	0.0663	15:27:16	Yes
2	4.448	4.448	0.0660	0.3897	0.0663	15:27:56	Yes
Mean:	4.448	4.448	0.0660				
SD:	0.001	0.001	0.0000				
%RSD:	0.013	0.013	0.01				

==========

Sequence No.: 11 **Autosampler Location: 19**
Sample ID: M0955-09B **Date Collected: 6/18/2013 3:27:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0955-09B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.258	0.258	0.0038	0.0218	0.0041	15:28:55	Yes
2	0.266	0.266	0.0040	0.0260	0.0043	15:29:35	Yes
Mean:	0.262	0.262	0.0039				
SD:	0.006	0.006	0.0001				
%RSD:	2.364	2.364	2.36				

==========

Sequence No.: 12 **Autosampler Location: 20**
Sample ID: M0955-10B **Date Collected: 6/18/2013 3:29:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0955-10B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.856	0.856	0.0127	0.0786	0.0130	15:30:35	Yes
2	0.844	0.844	0.0125	0.0734	0.0128	15:31:15	Yes
Mean:	0.850	0.850	0.0126				
SD:	0.009	0.009	0.0001				
%RSD:	1.041	1.041	1.04				

==========

Sequence No.: 13 **Autosampler Location: 21**
Sample ID: M0955-11B **Date Collected: 6/18/2013 3:31:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0955-11B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.284	0.284	0.0042	0.0272	0.0045	15:32:14	Yes
2	0.280	0.280	0.0042	0.0297	0.0045	15:32:54	Yes
Mean:	0.282	0.282	0.0042				
SD:	0.003	0.003	0.0000				
%RSD:	1.001	1.001	1.00				

Sequence No.: 14 **Autosampler Location: 22**
Sample ID: M0967-01A **Date Collected: 6/18/2013 3:32:56 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0967-01A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.019	0.019	0.0003	0.0056	0.0006	15:33:54	Yes
2	0.016	0.016	0.0002	0.0058	0.0006	15:34:34	Yes
Mean:	0.017	0.017	0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	15.30	15.30	15.30				

Sequence No.: 15 **Autosampler Location: 23**
Sample ID: M0967-02A **Date Collected: 6/18/2013 3:34:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0967-02A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.021	0.021	0.0003	0.0083	0.0006	15:35:34	Yes
2	0.030	0.030	0.0005	0.0128	0.0008	15:36:13	Yes
Mean:	0.025	0.025	0.0004				
SD:	0.007	0.007	0.0001				
%RSD:	27.33	27.33	27.33				

Sequence No.: 16 **Autosampler Location: 24**
Sample ID: M0975-04A **Date Collected: 6/18/2013 3:36:15 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0975-04A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.196	0.196	0.0029	0.0222	0.0032	15:37:13	Yes
2	0.193	0.193	0.0029	0.0179	0.0032	15:37:53	Yes
Mean:	0.195	0.195	0.0029				
SD:	0.002	0.002	0.0000				
%RSD:	1.060	1.060	1.06				

Sequence No.: 17 **Autosampler Location: 25**
Sample ID: M0975-07A **Date Collected: 6/18/2013 3:37:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0975-07A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.187	0.187	0.0028	0.0164	0.0031	15:38:52	Yes

2	0.200	0.200	0.0030	0.0234	0.0033	15:39:32	Yes
Mean:	0.194	0.194	0.0029				
SD:	0.010	0.010	0.0001				
%RSD:	5.045	5.045	5.04				

Sequence No.: 18 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 6/18/2013 3:39:34 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	4.870	4.870	0.0722	0.4343	0.0726	15:40:33	Yes
2	4.824	4.824	0.0716	0.4223	0.0719	15:41:13	Yes
Mean:	4.847	4.847	0.0719				
SD:	0.033	0.033	0.0005				
%RSD:	0.677	0.677	0.68				

QC value within limits for Hg 253.7 Recovery = 96.94%
All analyte(s) passed QC.

Sequence No.: 19 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/18/2013 3:41:14 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	-0.013	-0.013	-0.0002	-0.0014	0.0001	15:42:15	Yes
2	-0.010	-0.010	-0.0001	-0.0023	0.0002	15:42:55	Yes
Mean:	-0.011	-0.011	-0.0002				
SD:	0.003	0.003	0.0000				
%RSD:	22.71	22.71	22.71				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 20 **Autosampler Location: 26**
Sample ID: M0975-11A **Date Collected: 6/18/2013 3:42:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0975-11A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.228	0.228	0.0034	0.0184	0.0037	15:43:57	Yes
2	0.233	0.233	0.0035	0.0246	0.0038	15:44:37	Yes
Mean:	0.230	0.230	0.0034				
SD:	0.004	0.004	0.0001				
%RSD:	1.618	1.618	1.62				

Sequence No.: 21 **Autosampler Location: 27**
Sample ID: M0975-14A **Date Collected: 6/18/2013 3:44:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0975-14A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.208	0.208	0.0031	0.0264	0.0034	15:45:37	Yes
2	0.171	0.171	0.0025	0.0156	0.0029	15:46:17	Yes
Mean:	0.190	0.190	0.0028				
SD:	0.026	0.026	0.0004				
%RSD:	13.72	13.72	13.72				

Sequence No.: 22 **Autosampler Location: 28**
Sample ID: M0975-18A **Date Collected: 6/18/2013 3:46:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0975-18A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.208	0.208	0.0031	0.0207	0.0034	15:47:16	Yes
2	0.217	0.217	0.0032	0.0218	0.0035	15:47:56	Yes
Mean:	0.212	0.212	0.0031				
SD:	0.007	0.007	0.0001				
%RSD:	3.088	3.088	3.09				

Sequence No.: 23 **Autosampler Location: 29**
Sample ID: M0988-01A **Date Collected: 6/18/2013 3:47:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0988-01A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	67.54	67.54	1.0019	7.4414	1.0022	15:48:56	Yes
	Sample concentration is greater than that of the highest standard.						
2	67.60	67.60	1.0028	7.4164	1.0031	15:49:36	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	67.57	67.57	1.0023				
SD:	0.044	0.044	0.0006				
%RSD:	0.065	0.065	0.06				
	Sample concentration is greater than that of the highest standard.						

Sequence No.: 24 **Autosampler Location: 30**
Sample ID: M0988-02A **Date Collected: 6/18/2013 3:49:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0988-02A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	11.87	11.87	0.1761	1.0414	0.1764	15:50:35	Yes
	Sample concentration is greater than that of the highest standard.						
2	11.89	11.89	0.1764	1.0507	0.1767	15:51:15	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	11.88	11.88	0.1762				
SD:	0.017	0.017	0.0002				
%RSD:	0.141	0.141	0.14				
	Sample concentration is greater than that of the highest standard.						

Sequence No.: 25 **Autosampler Location: 31**
Sample ID: M0988-02ADUP **Date Collected: 6/18/2013 3:51:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0988-02ADUP

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	12.18	12.18	0.1807	1.0867	0.1811	15:52:15	Yes
	Sample concentration is greater than that of the highest standard.						
2	12.14	12.14	0.1800	1.0697	0.1804	15:52:55	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	12.16	12.16	0.1804				
SD:	0.033	0.033	0.0005				
%RSD:	0.274	0.274	0.27				

Sample concentration is greater than that of the highest standard.

Sequence No.: 26 **Autosampler Location: 32**
Sample ID: M0988-02AMS **Date Collected: 6/18/2013 3:52:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0988-02AMS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	13.85	13.85	0.2054	1.2305	0.2057	15:53:58	Yes
	Sample concentration is greater than that of the highest standard.						
2	13.94	13.94	0.2068	1.2340	0.2071	15:54:38	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	13.89	13.89	0.2061				
SD:	0.064	0.064	0.0010				
%RSD:	0.462	0.462	0.46				

Sample concentration is greater than that of the highest standard.

Sequence No.: 27 **Autosampler Location: 33**
Sample ID: M0994-01A **Date Collected: 6/18/2013 3:54:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0994-01A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	24.85	24.85	0.3686	2.2658	0.3689	15:55:38	Yes
	Sample concentration is greater than that of the highest standard.						
2	24.78	24.78	0.3676	2.2368	0.3680	15:56:17	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	24.81	24.81	0.3681				
SD:	0.045	0.045	0.0007				
%RSD:	0.182	0.182	0.18				

Sample concentration is greater than that of the highest standard.

Sequence No.: 28 **Autosampler Location: 34**
Sample ID: M0988-01A 20x **Date Collected: 6/18/2013 3:56:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0988-01A 20x

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.984	6.984	0.1036	0.6102	0.1039	15:57:16	Yes
2	7.064	7.064	0.1048	0.6208	0.1051	15:57:56	Yes
Mean:	7.024	7.024	0.1042				
SD:	0.057	0.057	0.0008				
%RSD:	0.807	0.807	0.81				

Sequence No.: 29 **Autosampler Location: 7**

Sample ID: CCV **Date Collected: 6/18/2013 3:57:57 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	4.927	4.927	0.0731	0.4341	0.0734	15:58:58	Yes
2	4.874	4.874	0.0723	0.4291	0.0726	15:59:38	Yes
Mean:	4.901	4.901	0.0727				
SD:	0.037	0.037	0.0005				
%RSD:	0.756	0.756	0.76				

QC value within limits for Hg 253.7 Recovery = 98.01%
All analyte(s) passed QC.

==========

Sequence No.: 30 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/18/2013 3:59:40 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	0.002	0.002	0.0000	-0.0000	0.0003	16:00:40	Yes
2	0.000	0.000	-0.0000	0.0003	0.0003	16:01:20	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	228.9	228.9	228.87				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 31 **Autosampler Location: 35**
Sample ID: M0988-02A 3x **Date Collected: 6/18/2013 4:01:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0988-02A 3x

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.107	4.107	0.0609	0.3668	0.0612	16:02:21	Yes
2	4.246	4.246	0.0630	0.3595	0.0633	16:03:01	Yes
Mean:	4.177	4.177	0.0620				
SD:	0.098	0.098	0.0015				
%RSD:	2.353	2.353	2.35				

==========

Sequence No.: 32 **Autosampler Location: 36**
Sample ID: M0988-02ADUP 3x **Date Collected: 6/18/2013 4:03:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0988-02ADUP 3x

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.396	4.396	0.0652	0.3759	0.0655	16:04:01	Yes
2	4.381	4.381	0.0650	0.3713	0.0653	16:04:41	Yes
Mean:	4.389	4.389	0.0651				
SD:	0.010	0.010	0.0002				
%RSD:	0.238	0.238	0.24				

==========

Sequence No.: 33 **Autosampler Location: 37**
Sample ID: M0988-02AMS 3x **Date Collected: 6/18/2013 4:04:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0988-02AMS 3x

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.143	5.143	0.0763	0.4388	0.0766	16:05:41	Yes
2	5.113	5.113	0.0758	0.4359	0.0762	16:06:20	Yes
Mean:	5.128	5.128	0.0761				
SD:	0.022	0.022	0.0003				
%RSD:	0.421	0.421	0.42				

==========

Sequence No.: 34 **Autosampler Location: 38**
Sample ID: M0994-01A 10x **Date Collected: 6/18/2013 4:06:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: M0994-01A 10x

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.903	2.903	0.0431	0.2461	0.0434	16:07:20	Yes
2	2.874	2.874	0.0426	0.2411	0.0430	16:08:00	Yes
Mean:	2.888	2.888	0.0428				
SD:	0.021	0.021	0.0003				
%RSD:	0.711	0.711	0.71				

==========

Sequence No.: 35 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 6/18/2013 4:08:02 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	5.026	5.026	0.0746	0.4249	0.0749	16:09:02	Yes
2	5.015	5.015	0.0744	0.4222	0.0747	16:09:42	Yes
Mean:	5.021	5.021	0.0745				
SD:	0.008	0.008	0.0001				
%RSD:	0.157	0.157	0.16				

QC value within limits for Hg 253.7 Recovery = 100.41%
All analyte(s) passed QC.

==========

Sequence No.: 36 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/18/2013 4:09:44 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	0.010	0.010	0.0001	0.0037	0.0005	16:10:44	Yes
2	0.024	0.024	0.0004	0.0097	0.0007	16:11:23	Yes
Mean:	0.017	0.017	0.0003				
SD:	0.010	0.010	0.0001				
%RSD:	59.14	59.14	59.14				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Prep Start Date: **06/18/2013 12:15**
Prep End Date: **06/18/2013 13:00** Prep Code: **SW7471A_PR** Prep Type: **7471B/SW7471B** Prep Factor Units: **mL / g**
Prep Batch ID: **72291** Technician: **David T Camara**

QC Matrix: N/A | Conc HNO3 1112120 | 5% KMnO4 IR13061701 | Reagent 5 Lot: N/A
QC Matrix Lot: N/A | Conc HNO3 (mL): 1.25 | 5% KMnO4 (mL): 15.0 | Reagent 5 (mL): N/A

Filter?: N/A | Conc HCl 4112073 | Reagent 4 Lot: N/A | Reagent 6 Lot: N/A
Filter Lot: N/A | Conc HCl (mL): 3.75 | Reagent 4 (mL): N/A | Reagent 6 (mL): N/A

Digestion Start Time 1: 06/18/2013 12:15 | Digestion Start Time 2: 06/18/2013 12:30 | Block Temp (C): 97 | Therm ID1: MT-47
Digestion End Time 1: 06/18/2013 12:17 | Digestion End Time 2: 06/18/2013 13:00 | Corr Fac -2

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	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
S0.2			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
40 uL II130617A																			
S1.0			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
200 uL II130617A																			
S2.0			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
400 uL II130617A																			
S5.0			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
1000 uL II130617A																			
S10.0			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
2000 uL II130617A																			
ICV			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
1000 uL II130617B																			
ICB			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
CCV			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
1000 uL II130617B																			
CCB			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
MB-72291			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
LCS-72291			0.6	100	--	--	--	--					06/18/13	DTC	HgLab		☐	☐	HB-K
1000 uL II130617C																			
M0955-09B	WGL-SD-SD02-0613	S	0.59	100	--	--	--	--			07/03/13	01	06/18/13	DTC	HgLab		☐	☐	HB-K
																			DoD
TAL																			
M0955-10B	WGL-SD-SD03-0613	S	0.55	100	--	--	--	--			07/03/13	01	06/18/13	DTC	HgLab		☐	☐	HB-K
																			DoD
TAL																			
M0955-11B	WGL-SD-SD04-0613	S	0.54	100	--	--	--	--			07/03/13	01	06/18/13	DTC	HgLab		☐	☐	HB-K
																			DoD
TAL																			
M0957-01A	RS-BF-A79-061313	S	0.56	100	--	--					07/05/13	01	06/18/13	DTC	HgLab		☐	☐	HB-2
TAL																			

DC 6/18/13

Logbook ID: 100.0128 -06/13

M0955

Page 797 of 806

M0975

Tuesday, June 18, 2013 14:58

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

PREP BATCH REPORT

Prep Start Date: **06/18/2013 12:15**
Prep End Date: **06/18/2013 13:00**
Prep Batch ID: **72291**

Prep Code: **SW7471A_PR**
Technician: **David T Camara**

Prep Type: **7471B/SW7471B**

Prep Factor Units: **mL / g**

QC Matrix: N/A
QC Matrix Lot: N/A

Conc HNO3 1112120
Conc HNO3 (mL): 1.25

5% KMnO4 IR13061701
5% KMnO4 (mL): 15.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HCl 4112073
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

Digestion Start Time 1: 06/18/2013 12:15
Digestion End Time 1: 06/18/2013 12:17

Digestion Start Time 2: 06/18/2013 12:30
Digestion End Time 2: 06/18/2013 13:00

Block Temp (C): 97

Therm ID1: MT-47
Corr Fac -2

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
M0967-02A	RS-BF-A81-061313	S	0.58	100	--	--	--	--			07/05/13	01	06/18/13	DTC	HgLab		☐	☐	HB-2
TAL																			
M0975-04A	COMP-A-061313	S	0.56	100	--	--	--	--			06/26/13	01	06/18/13	DTC	HgLab		☐	☐	HB-2
TAL																			
M0975-07A	COMP-B-061313	S	0.51	100	--	--	--	--			06/26/13	01	06/18/13	DTC	HgLab		☐	☐	HB-2
TAL																			
M0975-11A	COMP-C-061313	S	0.54	100	--	--	--	--			06/26/13	01	06/18/13	DTC	HgLab		☐	☐	HB-2
TAL																			
M0975-14A	COMP-D-061313	S	0.55	100	--	--	--	--			06/26/13	01	06/18/13	DTC	HgLab		☐	☐	HB-2
TAL																			
M0975-18A	COMP-E-061313	S	0.58	100	--	--	--	--			06/26/13	01	06/18/13	DTC	HgLab		☐	☐	HB-2
TAL																			
M0988-01A	121-S04-061413-1	S	0.56	100	--	--	--	--			06/21/13	01	06/18/13	DTC	HgLab		☐	☐	HB-2
M0988-02A	225-B01-061413-1	S	0.52	100	--	--	--	--			06/21/13	01	06/18/13	DTC	HgLab		☐	☐	HB-2
M0988-02ADUP	225-B01-061413-1	S	0.53	100	--	--	--	--			06/21/13		06/18/13	DTC	HgLab		☐	☐	HB-2
M0988-02AMS	225-B01-061413-1	S	0.53	100	--	--	--	--			06/21/13		06/18/13	DTC	HgLab		☐	☐	HB-2
1000 uL II130617C																			
M0994-01A	225-B02-061713-1	S	0.54	100	--	--	--	--			06/24/13		06/18/13	DTC	HgLab		☐	☐	HB-2

David T Camara 06/18/2013
Analyst Reviewed Date

Manager Reviewed Date

DC 6/18/13

Page 798 of 806

Logbook ID: 100.0128 -06/13

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

PREP BATCH REPORT

Prep Start Date: **06/20/2013 11:15**
Prep End Date: **06/20/2013 12:45** Prep Code: **ICP_S_PR** Prep Type: **3050B/SW3050B** Prep Factor Units: **mL / g**
Prep Batch ID: **72322** Technician: **David T Camara**

QC Matrix: N/A 1:1 HNO3 **1112120** 30% H2O2 **125018** Reagent 5 Lot: N/A
QC Matrix Lot: N/A 1:1 HNO3 (mL): **5.0** 30% H2O2 (mL): **5.0** Reagent 5 (mL): N/A

Filter?: N/A Conc HNO3 **1112120** Conc HCl **4112073** Reagent 6 Lot: N/A
Filter Lot: N/A Conc HNO3 (mL): **2.5** Conc HCl (mL): **5.0** Reagent 6 (mL): N/A

Digestion Start Time 1: 06/20/2013 11:15 Digestion Start Time 2: 06/20/2013 12:30 Block Temp (C): 97 Therm ID1: MT-102
Digestion End Time 1: 06/20/2013 12:00 Digestion End Time 2: 06/20/2013 12:45 Corr Fac -1

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-72322			1	50	--	--	--	--					06/20/13	DTC	ICPLab		☐	☐	HB-B
LCS-72322			1	50	--	--	--	--					06/20/13	DTC	ICPLab		☐	☐	HB-B
455 uL II130603A, 455 uL IP130227A, 45.5 uL IP130311A, 45.5 uL IP130311B																			
M0967-01A	RS-BF-A79-061313	S	1.61	50	--	--	--	--			07/05/13	01	06/20/13	DTC	ICPLab		☐	☐	HB-B
TAL																			
M0967-02A	RS-BF-A81-061313	S	1.34	50	--	--	--	--			07/05/13	01	06/20/13	DTC	ICPLab		☐	☐	HB-B
TAL																			
M0975-04A	COMP-A-061313	S	1.14	50	--	--	--	--			06/26/13	01	06/20/13	DTC	ICPLab		☐	☐	HB-B
TAL																			
M0975-07A	COMP-B-061313	S	1.65	50	--	--	--	--			06/26/13	01	06/20/13	DTC	ICPLab		☐	☐	HB-B
TAL																			
M0975-11A	COMP-C-061313	S	1.31	50	--	--	--	--			06/26/13	01	06/20/13	DTC	ICPLab		☐	☐	HB-B
TAL																			
M0975-14A	COMP-D-061313	S	1.46	50	--	--	--	--			06/26/13	01	06/20/13	DTC	ICPLab		☐	☐	HB-B
TAL																			
M0975-18A	COMP-E-061313	S	1.4	50	--	--	--	--			06/26/13	01	06/20/13	DTC	ICPLab		☐	☐	HB-B
TAL																			
M0975-18ADUP	COMP-E-061313	S	1.39	50	--	--	--	--			06/26/13		06/20/13	DTC	ICPLab		☐	☐	HB-B
TAL																			
M0975-18AMS	COMP-E-061313	S	1.41	50	--	--	--	--			06/26/13		06/20/13	DTC	ICPLab		☐	☐	HB-B
455 uL II130603A, 455 uL IP130227A, 45.5 uL IP130311A, 45.5 uL IP130311B, TAL																			

David T Camara 06/20/2013 NEA 6/21/13 DC 6/20/13
Analyst Reviewed Date Manager Reviewed Date

Logbook ID 100.0124-05/13

Percent Moisture and Percent Solids Report

Lab Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
M0975-01A	A-1-3-061313	06/18/2013	20.881	79.119	Yes
M0975-02A	A-2-2-061313	06/18/2013	25.000	75.000	Yes
M0975-03A	A-3-1-061313	06/18/2013	18.921	81.079	Yes
M0975-04A	COMP-A-061313	06/18/2013	21.460	78.540	Yes
M0975-05A	B-1-4-061313	06/18/2013	18.650	81.350	Yes
M0975-06A	B-2-1-061313	06/18/2013	18.229	81.771	Yes
M0975-07A	COMP-B-061313	06/18/2013	20.671	79.329	Yes
M0975-08A	C-1-2-061313	06/18/2013	23.940	76.060	Yes
M0975-09A	C-2-3-061313	06/18/2013	25.535	74.465	Yes
M0975-10A	C-3-2-061313	06/18/2013	23.295	76.705	Yes
M0975-11A	COMP-C-061313	06/18/2013	17.278	82.722	Yes
M0975-12A	D-1-1-061313	06/18/2013	17.479	82.521	Yes
M0975-13A	D-3-4-061313	06/18/2013	19.204	80.796	Yes
M0975-14A	COMP-D-061313	06/18/2013	20.900	79.100	Yes
M0975-15A	E-1-3-061313	06/18/2013	15.889	84.111	Yes
M0975-16A	E-2-4-061313	06/18/2013	24.763	75.237	Yes
M0975-17A	E-3-2-061313	06/18/2013	23.279	76.721	Yes
M0975-18A	COMP-E-061313	06/18/2013	16.103	83.897	Yes

Internal Chain of Custody

Client: GZA_BUFFALO

Work Order: M0975 **Profile Name:** GZA_SINGNORE

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
01A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
01A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
01A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
02A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
02A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
02A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
03A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
03A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
03A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
04A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
04A	001	SW6010_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
04A	001	SW7471	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
04A	001	SW7471	Out	David T Camara	6/18/2013 11:50:21 AM
04A	001	SW7471	In	David T Camara	6/18/2013 1:28:04 PM
04A	001	SW7471	In	Jodie B Warner	6/24/2013 12:00:18 PM
04A	001	SW8081_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
04A	001	SW8081_S	Out	Jodie B Warner	6/18/2013 9:39:49 AM
04A	001	SW8081_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
04A	001	SW8081_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
04A	001	SW8082_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
04A	001	SW8082_S	Out	Jodie B Warner	6/18/2013 9:39:54 AM
04A	001	SW8082_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
04A	001	SW8082_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
04A	001	SW8270_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
04A	001	SW8270_S	Out	Jodie B Warner	6/18/2013 9:39:56 AM
04A	001	SW8270_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
04A	001	SW8270_S	Out	Jodie B Warner	6/24/2013 11:01:22 AM
04A	001	SW8270_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
05A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
05A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
05A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM

Internal Chain of Custody

Client: GZA_BUFFALO

Work Order: M0975 **Profile Name:** GZA_SINGNORE

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
06A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
06A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
06A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
07A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
07A	001	SW6010_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
07A	001	SW7471	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
07A	001	SW7471	Out	David T Camara	6/18/2013 11:50:21 AM
07A	001	SW7471	In	David T Camara	6/18/2013 1:28:04 PM
07A	001	SW7471	In	Jodie B Warner	6/24/2013 12:00:18 PM
07A	001	SW8081_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
07A	001	SW8081_S	Out	Jodie B Warner	6/18/2013 9:39:49 AM
07A	001	SW8081_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
07A	001	SW8081_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
07A	001	SW8082_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
07A	001	SW8082_S	Out	Jodie B Warner	6/18/2013 9:39:54 AM
07A	001	SW8082_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
07A	001	SW8082_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
07A	001	SW8270_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
07A	001	SW8270_S	Out	Jodie B Warner	6/18/2013 9:39:56 AM
07A	001	SW8270_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
07A	001	SW8270_S	Out	Jodie B Warner	6/24/2013 11:01:22 AM
07A	001	SW8270_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
08A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
08A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
08A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
09A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
09A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
09A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
10A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
10A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
10A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM

Internal Chain of Custody

Client: GZA_BUFFALO

Work Order: M0975 **Profile Name:** GZA_SINGNORE

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
11A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
11A	001	SW6010_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
11A	001	SW7471	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
11A	001	SW7471	Out	David T Camara	6/18/2013 11:50:21 AM
11A	001	SW7471	In	David T Camara	6/18/2013 1:28:04 PM
11A	001	SW7471	In	Jodie B Warner	6/24/2013 12:00:18 PM
11A	001	SW8081_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
11A	001	SW8081_S	Out	Jodie B Warner	6/18/2013 9:39:49 AM
11A	001	SW8081_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
11A	001	SW8081_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
11A	001	SW8082_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
11A	001	SW8082_S	Out	Jodie B Warner	6/18/2013 9:39:54 AM
11A	001	SW8082_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
11A	001	SW8082_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
11A	001	SW8270_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
11A	001	SW8270_S	Out	Jodie B Warner	6/18/2013 9:39:56 AM
11A	001	SW8270_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
11A	001	SW8270_S	Out	Jodie B Warner	6/24/2013 11:01:22 AM
11A	001	SW8270_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
12A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
12A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
12A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
13A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
13A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
13A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM

Internal Chain of Custody

Client: GZA_BUFFALO

Work Order: M0975 **Profile Name:** GZA_SINGNORE

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
14A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
14A	001	SW6010_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
14A	001	SW7471	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
14A	001	SW7471	Out	David T Camara	6/18/2013 11:50:21 AM
14A	001	SW7471	In	David T Camara	6/18/2013 1:28:04 PM
14A	001	SW7471	In	Jodie B Warner	6/24/2013 12:00:18 PM
14A	001	SW8081_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
14A	001	SW8081_S	Out	Jodie B Warner	6/18/2013 9:39:49 AM
14A	001	SW8081_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
14A	001	SW8081_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
14A	001	SW8082_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
14A	001	SW8082_S	Out	Jodie B Warner	6/18/2013 9:39:54 AM
14A	001	SW8082_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
14A	001	SW8082_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
14A	001	SW8270_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
14A	001	SW8270_S	Out	Jodie B Warner	6/18/2013 9:39:56 AM
14A	001	SW8270_S	In	Jodie B Warner	6/18/2013 10:38:00 AM
14A	001	SW8270_S	Out	Jodie B Warner	6/24/2013 11:01:22 AM
14A	001	SW8270_S	In	Jodie B Warner	6/24/2013 12:00:18 PM
15A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
15A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
15A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
16A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
16A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
16A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
17A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
17A	001	SW8260_LOW_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
17A	001	SW8260_MED_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM

Internal Chain of Custody

Client: GZA_BUFFALO

Work Order: M0975 **Profile Name:** GZA_SINGNORE

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
18A	001	PMoist	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
18A	001	SW6010_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
18A	001	SW7471	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
18A	001	SW7471	Out	David T Camara	6/18/2013 11:50:21 AM
18A	001	SW7471	In	David T Camara	6/18/2013 1:28:04 PM
18A	001	SW7471	In	Jodie B Warner	6/24/2013 12:00:18 PM
18A	001	SW8081_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
18A	001	SW8082_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
18A	001	SW8270_S	In	LOGIN: tmcdaniel	6/14/2013 4:12:00 PM
18A	001	SW8270_S	Out	Jodie B Warner	6/24/2013 11:01:22 AM
18A	001	SW8270_S	In	Jodie B Warner	6/24/2013 12:00:18 PM

Last Page of Data Report