

January 30, 2013

Mr. Lewis Norry
Norry Management Corporation
1465 Monroe Avenue
Rochester, New York 14618

Re: Preliminary Phase II Environmental Site Assessment
3750 Monroe Avenue, Pittsford, New York
LaBella Project No. 212440

Dear Mr. Norry:

This letter documents the work completed to further evaluate the Recognized Environmental Condition (REC) identified in the Phase I Environmental Site Assessment (ESA) Report conducted at the above-referenced property, hereinafter referred to as the "Site." A Site location map is included as Figure 1. Specifically, the Phase I ESA identified the historical use of the Site and one underground storage tank (UST) as a REC. The historic UST was identified on a map obtained from the Town of Pittsford, included in this letter as Attachment B. The historic use of the Site included various plating and machining operations.

Based on the Phase I ESA findings, LaBella was requested to complete a Phase II ESA in the vicinity of the former UST (i.e., in the parking lot to the northwest of the Site building) and around the Site in order to evaluate the overall condition of the Site. The Phase II ESA included several phases/iterations of work to further evaluate the Site based on the data obtained. The Phase II ESA consisted of the following scope:

- Geophysical Survey – a geophysical survey was completed to evaluate the area where historic mapping indicated the potential for an UST.
- Test Pitting Evaluation – areas of suspect magnetic anomalies were further evaluated by excavating test pits to confirm/deny the presence of a UST in these locations.
- Soil Boring Evaluation – the soil boring work consisted of 3 separate days of drilling with each subsequent day based on the data obtained from the previous soil boring and groundwater monitoring work.
- Groundwater Evaluation – Each iteration of the soil boring evaluation included installing groundwater monitoring wells to evaluate the extent of impacts in the groundwater.

Each of the above phases are discussed separately below.

Geophysical Survey

The geophysical study was completed by AMEC Geomatrix Inc. (AMEC), on May 5, 2012. The northwestern portion of the Site was surveyed using the Geonics EM61. A copy of the geophysical report completed by AMEC is included in Attachment A. The survey identified two magnetic anomalies that could potentially be related to USTs. Based on these results, three test pits (see below) were excavated at the Site in the locations

of the two magnetic anomalies and in the historic UST area depicted on the map identified as part of the Phase I ESA.

Soil Boring Evaluation

The soil boring work was completed in stages. Ten soil borings (designated GP-01 through GP-10) and three groundwater monitoring wells (designated MW-01 through MW-03) were completed at the Site on May 10, 2012. Based on preliminary data obtained from the first round of soil analysis, an additional six borings (designated GP-11 through GP-16) and five monitoring wells (designated MW-11, MW-12, MW-14, GP-15 and MW-16) were completed at the Site on May 30, 2012, and an additional eight borings (designated GP-17 through GP-24) and eight monitoring wells (designated MW-17 through MW-24) were completed at the Site on June 12, 2012. Copies of the soil boring logs are included in Attachment C.

Between the various sampling days, a total of ten soil and nineteen groundwater samples were submitted for laboratory analysis. The samples were sent to Accutest Laboratories, Spectrum Analytical or Paradigm Environmental Services analyzed for one or more of the below parameters:

- United States Environmental Protection Agency (USEPA) Target Compound List (TCL) and New York State Department of Environmental Conservation (NYSDEC) Commissioner Policy 51 (CP-51) list volatile organic compounds (VOCs) using USEPA Method 8260;
- NYSDEC CP-51 list semi-volatile organic compounds using USEPA Method 8270;
- Cyanide using USEPA Method 9012;
- Resource Conservation and Recovery Act (RCRA) Metals using USEPA Methods 6010/7470/7471;
- Pesticides using USEPA Method 8081; and
- Polychlorinated biphenyls (PCBs) using USEPA Method 8082.

Field screening of the borings for the presence of volatile organic compounds (VOCs) was performed with a MiniRae 3000 photoionization detector (PID) and for the borings completed after the initial May 10, 2012, investigation, a ppbRae 3000 PID. A petroleum odor and slightly elevated PID readings (up to 8.3 parts per million) were noted in TP-01 at depths between approximately 1-ft and 4-ft bgs. Suspicious staining, odors or PID readings above zero parts per million were not observed in any of the initial soil borings (i.e., GP-01 through GP-10) by the on-Site LaBella Geologist. However, the supplemental borings (GP-11 through GP-24) which were screened by the on-Site LaBella Geologist with the more sensitive PPBRae did reveal slightly elevated PID (i.e., above 0 ppm) readings in several borings. Staining and/or suspicious odors were not observed in these borings. Borings with elevated readings are summarized in Table A, located on the following page. Only borings listed in Table A were identified to have elevated PID readings (i.e., above 0 ppm) or these borings had samples submitted for analytical testing.

Test Pitting Evaluation

LaBella retained the services of TREC Environmental Inc. (TREC) to implement the test pitting work on May 10, 2012. The location of the test pits are shown on Figure 2. Copies of the test pit logs are included in Attachment C. As discussed above, two of the test pits, TP-01 and TP-02, were excavated in the location of magnetic anomalies identified by the geophysical survey. Both test pits were excavated to approximately 6-ft. below ground surface (bgs) and native soils in the test pits generally consisted of clayey silts. TP-01 encountered a vertical steel pipe which appeared to be a former fence post embedded in a piece of concrete

just below the asphalt parking surface. A petroleum odor was noted in soils between approximately 2-ft. and 4-ft. bgs. The maximum PID reading in this depth interval was 8.3 parts per million (ppm) at approximately 3-ft. bgs. As such, sample TP-01 was collected from 3-ft. bgs and submitted for laboratory analysis of the below parameters:

- United States Environmental Protection Agency (USEPA) Target Compound List (TCL) and New York State Department of Environmental Conservation (NYSDEC) Commissioner Policy 51 (CP-51) list volatile organic compounds (VOCs) using USEPA Method 8260; and
- NYSDEC CP-51 list semi-volatile organic compounds using USEPA Method 8270.

An approximately 2-ft. long piece of steel, an apparent sign post, was encountered approximately 2-ft. bgs in test pit TP-02. Evidence of impairment (e.g., elevated PID readings, suspicious odors or staining, etc.) was not identified in TP-02.

The third test pit, TP-03, was excavated in the location of the UST based on the mapping obtained from the Town of Pittsford during the Phase I ESA. Test Pit TP-03 also encountered an apparent portion of a steel sign post, also approximately 2-ft. in length. This piece of metal was encountered at approximately 6-in. bgs. Evidence of impairment (e.g., elevated PID readings, suspicious odors or staining, etc.) or backfill was not identified in TP-03.

Geology and Hydrogeology

LaBella retained the services of TREC Environmental Inc. (TREC) to implement a direct push (i.e. Geoprobe®) soil boring and sampling program of the overburden at the Site. In addition, TREC also excavated three test pits. Geologic conditions described herein are based on 24 borings and three test pits advanced at the Site. Underneath the asphalt pavement (where present), fill material consisting primarily of sand and gravel was encountered in soil borings advanced in the parking areas and gravel-covered areas of the Site. This apparent fill material was observed to depths of up to approximately 1.5-ft. bgs. to an approximate depth of 2 to 5 feet below the ground surface (bgs). In general, native soils encountered beneath the fill material consisted of: sandy silts or silty sands (generally between 1-ft. to 5-ft. bgs); atop clayey silts or silty clays (generally to a depth of 8 to 12 feet bgs); atop silty fine sand (generally to a depth of 12 feet to 16 feet bgs, with the exception of GP-23, see below). Saturated soils were generally encountered in the deeper silty fine sand interval. Trace deposits of pea stone were encountered in silt below the clayey silt layer, generally in the area to the northwest of the Site building, specifically in borings GP-08 and GP-09.

Table A
Test Boring/Well Summary and Soil PID Readings

Boring ID	Sample Interval (depth in ft)												Submitted Sample Depth (feet bgs)	Analytical Parameters
	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24		
GP-08	0	0	0	0	0	0							8'	VOCs and SVOCs
GP-11	0	0	0	0	0	190-300	--	--	--	--	--	--	11'-12'	VOCs
GP-14	0	0	0	0	600-1,100	1-40 ppm	19-50 ppm		--	--	--	--	10'-12'	VOCs
GP-16	3,600	0	0	300-1,950	11-16 ppm		--	--	--	--	--	--	9'-11'	VOCs
GP-21	842	0	0	1,050	13 ppm	21 ppm	5,000	2,050	2,100	0	0	0	22'-23.8'	VOCs
GP-23	5,100	700	0	201	5,100	2,700	21	--	--	--	--	--	0'-2'	RCRA Metals and Cyanide
GP-24	0	0	0	0	51 ppm		21 ppm	--	--	--	--	--	8'-12'	VOCs, SVOCs, RCRA Metals, PCBs, Pesticides and Cyanide

Notes:

1. All PID readings were collected utilizing a PPBRAe 3000 photoionization detector and are expressed in parts per **billion**, unless noted.
2. The PID screening is performed as a method of determining general presence or absence of VOCs in soil, and to provide a basis for selecting samples for laboratory analysis. The readings obtained provide only an indication of the relative levels of VOC presence in the soil, and are not considered to be a direct quantization of actual soil VOC concentration
3. "--" denotes boring not completed to above-listed depth or insufficient recovery occurred at specified depth.
4. "VOCs" denotes TCL and CP-51 VOC lists.
5. "SVOCs" denotes TCL and CP-51 VOC lists.
6. Borings not listed in this table did not have elevated PID readings (i.e., above 0 ppm) or did not have any samples submitted for analytical testing.

In general, soil borings were advanced to between 12-ft and 16-ft bgs in order to access the water table, however one boring (GP-21) was advanced to direct-push equipment “refusal”, which is assumed to have been caused by hard overburden material (clayey silt with gravel). Specifically, refusal was encountered within soil boring GP-21 at a depth of 23.8 feet bgs.

Groundwater was encountered within the monitoring wells installed at the Site at depths ranging from approximately 1.5 feet BGS (MW-19) to 9 feet BGS (MW-15). Based upon a well head elevation survey and static water levels, groundwater flow beneath the Site, on the southern side of the Creek, is interpreted to be generally to the north. Subsequent to purging and sampling the wells, each well was surveyed for location and elevation and a groundwater contour map developed (refer to attached Figure 2).

Soil Analytical Results

Soil sampling at the Site included collecting/analyzing: eight samples for VOCs, four samples for SVOCs, two samples for RCRA metals (including cyanide), one sample for pesticides and one sample for PCBs. Analytical data associated with the samples indicated concentrations of trichloroethylene (TCE; a chlorinated solvent) in soil samples GP-14 and GP-16 and methylene chloride in soil samples GP-11, GP-14 and GP-16 at levels exceeding NYSDEC Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (SCOs) (refer to Table 1). In addition, calcium and iron were detected in soil samples GP-23 and GP-24 at levels exceeding Unrestricted SCOs for metals (refer to Table 3). However, based on the nature of these two metals, these exceedences do not appear to be significant. Soil data are summarized in attached Tables 1 through 5 and laboratory analytical reports are included in Attachment D. It should be noted that samples with elevated concentrations of the above-noted compounds were collected in the area to the northwest of the Site building (refer to Figure 2).

Groundwater Analytical Results

Groundwater sampling at the Site consisted of collecting/analyzing: eighteen samples for VOCs and one sample for SVOCs, Metals, Pesticide and PCBs. Analytical data associated with groundwater samples indicated several chlorinated solvents (including TCE, tetrachloroethylene (PERC), cis-1,2-Dichloroethene and vinyl chloride) present in twelve of the eighteen groundwater samples at concentrations exceeding NYSDEC Technical and Operational Guidance Standards (TOGS) 1.1.1 Groundwater Standards & Guidance Values. In addition, several metals were detected in sample MW-24 at concentrations exceeding NYSDEC TOGS 1.1.1 Groundwater Standards; however, the water was observed to be turbid with fine sand and silt and as such, the detection of metals at this location may not be representative of groundwater conditions. Groundwater data are summarized in the attached Tables 6 through 8 and laboratory analytical reports are included in Attachment D.

It should be noted that samples with elevated concentrations of the above-noted compounds were collected in the area to the northwest of the Site building (refer to Figure 2). The extent of chlorinated VOCs (specifically TCE and its breakdown products) above the NYSDEC Part 703 Groundwater Standards appears to extend to the north to beyond the edge of the main parking lot. However, a monitoring well, installed in the ‘overflow’ parking lot north of the creek that bisects the Site (a tributary to Allens Creek), did not detect VOCs above the reported detection limits in the groundwater at this location (refer to attached Figure 2). It should also be noted that monitoring wells installed on the eastern side of the building (MW-01) and on the northern side of the building (MW-02) did not detect VOCs above the reported laboratory detection limits (with the exception of acetone in MW-02, which is a known laboratory contaminant).

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Conclusions and Recommendations

Based on the findings of this preliminary Phase II ESA, the elevated concentrations of chlorinated solvents in soil and groundwater appear limited to the parking area to the northwest of the Site building (refer to Figure 2). As such, additional investigation or remedial activities appear warranted in this area of the Site. In addition, LaBella recommends that the NYSDEC be contacting regarding the results of this investigation.

If I can be of any further assistance, please do not hesitate to contact me at (585) 454-6110.

Respectfully Submitted,

LABELLA ASSOCIATES, P.C.

A handwritten signature in black ink, appearing to read 'D. Noll', with a stylized flourish at the end.

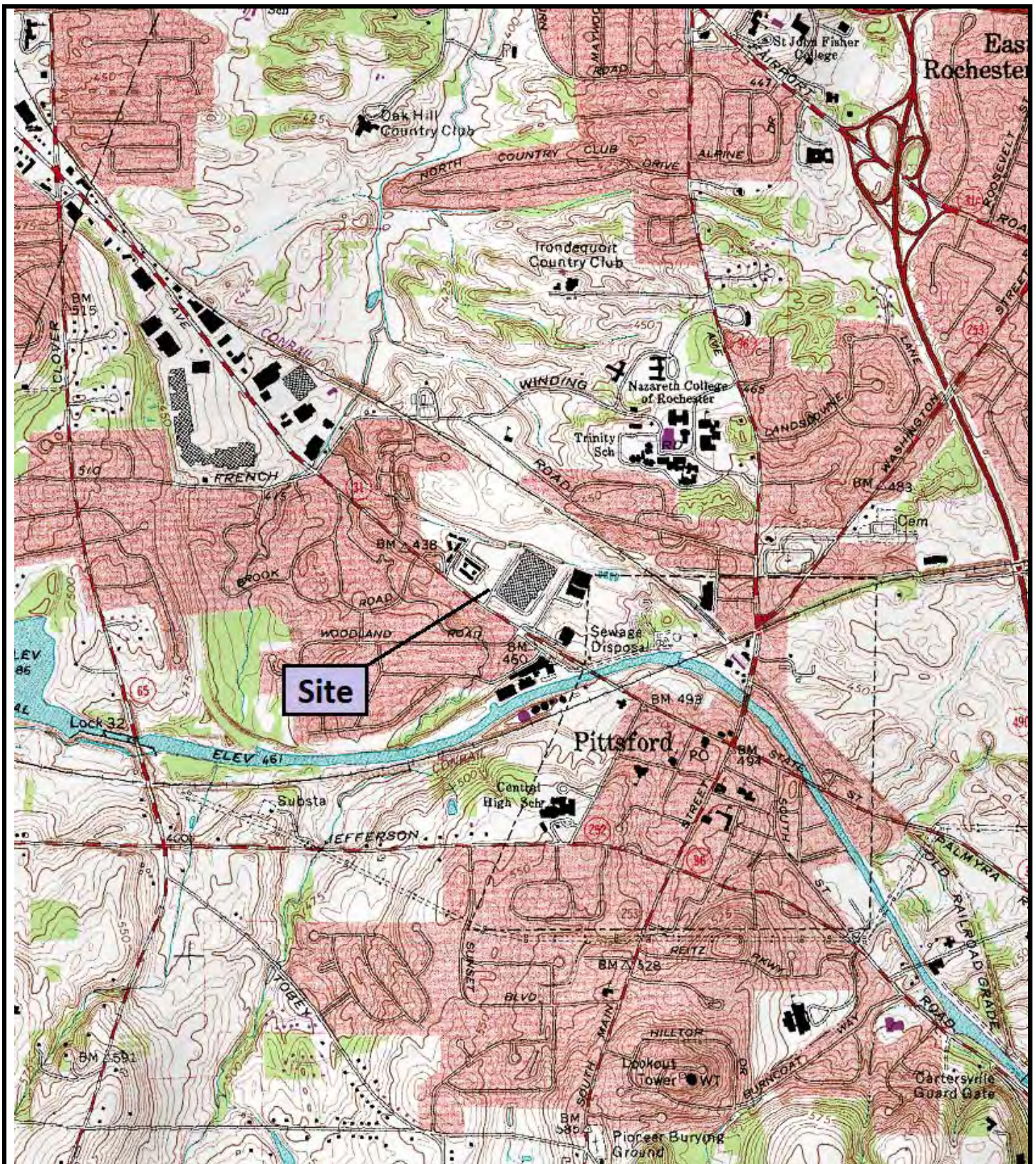
Daniel Noll, PE
Environmental Engineer

DPN/JMG/lk

Attachments

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Figures



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 NOT TO SCALE

FIGURE 1 SITE LOCATION MAP

3750 Monroe Avenue
Pittsford, New York 14534

ABELLA

PROJECT NO. 212440

Legend

- Groundwater Monitoring Well Location
- Soil Boring Location
- Groundwater Contour (ft) 6.15.2012
- Property Boundary
- Test Pit Location

Note:

(1) All locations are approximate.

(2) Well GPMW-19 was not utilized to calculate groundwater flow direction.

(3) Well ID: **GPMW-11**
Site Specific Groundwater Elevation: **95.98**

Site Specific Surface
Water Elevation of Drainage Feature:
95.55 ft

Phase II Environmental
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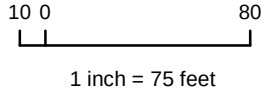
Norry Management
Corporation

Subsurface Investigation
Locations



Issued For: **FINAL**

Date: 06/15/2012
Drawn By: MFP
Reviewed By: DPN



[211734]

[FIGURE 2]

Table 1
3750 Monroe Avenue, Town of Pittsford, New York
Summary of Detected VOCs in Soil
Results in Micrograms per Kilogram (µg/kg) or Parts per Billion (ppb)

Sample ID	GP-08-10´	TP-01	GP-11 11´-12´	GP-11 11´-12´	GP-14 10´-12´	GP-14 10´-12´	GP-16 9´-11´	GP-16 9´-11´	GP-21 22´-23.8´	GP-24 8´-12´	NYSDEC Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375-6.8(b) Restricted Commercial Use Soil Cleanup Objectives
Date of Sample Collection	5/10/2012	5/10/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	6/12/2012	6/12/2012		
Tetrachloroethene	ND < 130	ND < 130	ND < 5.3	ND < 350	ND < 5.3	ND < 330	ND < 6.0	ND < 350	ND < 5.5	ND < 10	13000	150,000
Trichloroethene	ND < 130	ND < 130	360 E	460 B	1,300 E	940 B	1,400 E	1,800 B	76	ND < 10	470	200,000
cis-1,2-Dichloroethene	ND < 130	ND < 130	17	ND < 350	44	ND < 330	3.6 J	ND < 350	ND < 5.5	2.9 J	250	500,000
trans-1,2-Dichloroethene	ND < 130	ND < 130	ND < 5.3	ND < 350	ND < 5.3	ND < 330	1.5 J	ND < 350	2.5 J	ND < 10	190	500,000
1,1-Dichloroethene	ND < 130	ND < 130	ND < 5.3	ND < 350	6.1	ND < 330	3.8 J	ND < 350	ND < 5.5	ND < 10	330	500,000
1,1-Dichloroethane	ND < 130	ND < 130	ND < 5.3	ND < 350	2.4 J	ND < 330	ND < 6.0	ND < 350	ND < 5.5	ND < 10	270	240,000
Acetone	ND < 330	ND < 330	4.4 J	ND < 350	ND < 5.3	ND < 330	ND < 6.0	ND < 350	ND < 5.5	ND < 10	50	500,000
Carbon disulfide	ND < 330	ND < 330	2.2 J	ND < 350	ND < 5.3	ND < 330	ND < 6.0	ND < 350	ND < 5.5	ND < 10	NL	NL
Methylene chloride	ND < 130	ND < 130	ND < 5.3	83 BJ	ND < 5.3	73 BJ	ND < 6.0	73 BJ	ND < 5.5	ND < 10	50	500,000
1,2-Dichloroethane	ND < 130	ND < 130	ND < 5.3	ND < 350	2.4 J	ND < 330	ND < 6.0	ND < 350	ND < 5.5	ND < 10	20	30,000
1,2-Dichlorobenzene	N/A	N/A	1.2 J	ND < 350	ND < 5.3	ND < 330	ND < 6.0	ND < 350	ND < 5.5	ND < 10	1100	500,000

Bold and Shaded Type denotes that the reported concentration exceeds its associated Part 375-6.8(a) Unrestricted Use Soil Cleanup Objective (SCO

ND < 11.0 denotes compound not detected above the method detection limit shown

NL indicates that the compound is not listed in this set of standards

J = Laboratory Data Qualifier that indicates "analyte detected below quantitation limits"

B = Laboratory Data Qualifier that indicates "method blank contained trace levels of analyte"

E = Laboratory Data Qualifier that indicates "value above quantitation range"

N/A = not analyzed

Table 2
3750 Monroe Avenue, Town of Pittsford, New York
Summary of Detected Semi Volatile Organic Compounds (SVOCs) in Soil
Results in Milligrams per Kilogram (mg/kg) or Parts Per Million (ppm)

Sample ID	GP-08-10'	TP-01	GP-24 8'-12'	NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives
Date of Sample Collection	6/12/2012	6/12/2012	6/12/2012	
Acenaphthylene	ND<0.290	0.344	ND < 0.400	100
Phenanthrene	ND<0.290	0.327	ND < 0.400	100
Di-n-butylphthalate	N/A	N/A	0.210 J	8.1**
Fluoranthene	ND<0.290	0.840	ND < 0.400	100
Pyrene	ND<0.290	0.855	ND < 0.400	100
Benzo(a)anthracene	ND<0.290	0.542	ND < 0.400	1
Chrysene	ND<0.290	0.427	ND < 0.400	1
Bis(2-ethylhexyl)phthalate	N/A	N/A	0.110 J	50*
Benzo(b)fluoranthene	ND<0.290	0.545	ND < 0.400	1
Benzo(a)pyrene	ND<0.290	0.474	ND < 0.400	1

ND < 11.0 denotes compound not detected above the method detection limit shown.

NL indicates that the compound is not listed in this set of standards

J = Laboratory Data Qualifier that indicates "analyte detected below quantitation limits"

B = Laboratory Data Qualifier that indicates "method blank contained trace levels of analyte"

E = Laboratory Data Qualifier that indicates "value above quantitation range"

N/A = not analyzed

*Indicates no Part 375-6 SCO for this compound; SCO from NYSDEC Commissioner Policy 51 Supplemental SCOs for Residential sites

**Indicates no Part 375-6 SCO for this compound; SCO from NYSDEC Commissioner Policy 51 Supplemental SCOs for Protection of Groundwater

Table 3
3750 Monroe Avenue, Town of Pittsford, New York
Summary of Metals in Soil
Results in Milligrams per Kilogram (mg/kg) or Parts Per Million (ppm)

Sample ID	GP-23 0'-2'	GP-24 8'-12'	NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375- 6.8(b): Restricted Commercial Use Soil Cleanup Objectives
Date of Sample Collection	6/12/2012	6/12/2012		
Target Analyte List (TAL) Metals plus Cyanide				
Aluminum	5,100	2,500	10,000**	Not Listed
Antimony	ND < 1.1	0.53 BJ	12**	Not Listed
Arsenic	1.1	0.77 J	13	16
Barium	29 B	15 B	350	400
Beryllium	0.091 J	0.052 J	7.2	590
Cadmium	0.42	0.15 J	2.5	9.3
Calcium	49,000	33,000	10,000**	Not Listed
Chromium	9.1	5.0	30***	1,500***
Cobalt	4.4	2.5 J	20**	Not Listed
Copper	12 B	6.4 B	50	270
Iron	11,000	5,900	2,000*	Not Listed
Lead	3.5	1.3	63	1,000
Magnesium	13,000	9,400	Not Listed	Not Listed
Manganese	380	230	1,600	10,000
Mercury	0.017 J	ND < 0.047	0.18	2.8
Nickel	9.0	4.8	30	310
Potassium	760	330	Not Listed	Not Listed
Selenium	ND < 1.6	ND < 1.5	3.9	1,500
Silver	ND < 1.6	ND < 1.5	2	1,500
Sodium	140	120	Not Listed	Not Listed
Thallium	ND < 1.1	ND < 0.99	5**	Not Listed
Vanadium	14	7.5	39**	Not Listed
Zinc	27 B	14 B	109	10,000
Cyanide	ND < 1.0	ND < 1.2	27	27

ND < 11.0 denotes compound not detected above the method detection limit shown.
Bold and Shaded Type denotes that the reported concentration exceeds its associated Part 375-6.8(a) Unrestricted Use Soil Cleanup Objective (SCO)
J = Laboratory Data Qualifier that indicates "analyte detected below quantitation limits"
B = Laboratory Data Qualifier that indicates "method blank contained trace levels of analyte"
*Indicates no Part 375-6 SCO for this compound; SCO from NYSDEC Commissioner Policy 51 Supplemental SCOs for Residential Sites
**Indicates no Part 375-6 SCO for this compound; SCO from NYSDEC Commissioner Policy 51 Supplemental SCOs for Protection of Ecological Resources
***Indicates SCO is for trivalent Chromium

Table 4
3750 Monroe Avenue
Town of Pittsford, New York
Summary of Test Pit Samples - Pesticides
Results in Milligrams per Kilogram (mg/Kg) or Parts Per Million (PPM)

Sample ID	Geoprobe Samples	NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives	NYCRR Part 375-6.8(b) Restricted Use Soil Cleanup Objectives: Protection of Public Health: Restricted Residential	NYCRR Part 375-6.8(b) Restricted Use Soil Cleanup Objectives: Protection of Groundwater
	TP-22-1'-2.5'-Dup.			
Sample Collection Date	6/12/12			
Pesticides				
alpha-BHC	ND < 0.002	0.02	0.48	0.02
beta-BHC	ND < 0.002	0.036	0.36	0.09
delta-BHC	ND < 0.002	0.04	100	0.25
gamma-BHC (Lindane)	ND < 0.002	NA	NA	NA
Heptachlor	ND < 0.002	0.042	2.1	0.38
Aldrin	ND < 0.002	0.005	0.097	0.19
Heptachlor Epoxide	ND < 0.002	0.077*	.077*	0.02**
Endosulfan I	ND < 0.002	2.4	24	102
Dieldrin	ND < 0.002	0.005	0.2	0.1
4,4'-DDE	ND < 0.002	0.0033	8.9	17
Endrin	ND < 0.002	0.014	11	0.06
Endosulfan II	ND < 0.002	2.4	24	102
4,4'-DDD	ND < 0.002	0.0033	13	14
Endosulfan Sulfate	ND < 0.002	2.4	24	1,000
4,4'-DDT	ND < 0.002	0.0033	7.9	136
Methoxychlor	ND < 0.002	100*	100	900
Endrin Ketone	ND < 0.002	NA	NA	NA
Endrin Aldehyde	ND < 0.002	NA	NA	NA
alpha-Chlordane	ND < 0.002	0.094	4.2	2.9
gamma-Chlordane	ND < 0.002	0.54*	0.54*	14**
Toxaphene	ND < 0.002	NA	NA	NA

Notes:
Pesticide analysis by United States Environmental Protection Agency (USEPA) Method SW846 8081
Bold type indicates that the constituent was detected above NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives
ND = not detected
*Indicates no Part 375-6 SCO for this compound; SCO from NYSDEC Commissioner Policy 51 Supplemental SCOs for Residential Facilities
**Indicates no Part 375-6 SCO for this compound; SCO from NYSDEC Commissioner Policy 51 Supplemental SCOs for Protection of Groundwater
NOTE: VALIDATION OF THIS DATA HAS NOT YET BEEN COMPLETED.

Table 5
3750 Monroe Avenue
Town of Pittsford, New York
Summary of Geoprobe Samples - Polychlorinated Biphenyls (PCBs)
Results in Milligrams per Kilogram (mg/Kg) or Parts Per Million (PPM)

Sample ID	Geoprobe Samples	NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives	NYCRR Part 375-6.8(b) Restricted Use Soil Cleanup Objectives: Protection of Public Health: Restricted Residential	NYCRR Part 375-6.8(b) Restricted Use Soil Cleanup Objectives: Protection of Groundwater
	GP-24, 8'-12'			
Sample Collection Date	6/12/12			
Polychlorinated Biphenyls				
Aroclor 1016	ND < 0.004	NA	NA	NA
Aroclor 1221	ND < 0.004	NA	NA	NA
Aroclor 1232	ND < 0.004	NA	NA	NA
Aroclor 1242	ND < 0.004	NA	NA	NA
Aroclor 1248	ND < 0.004	NA	NA	NA
Aroclor 1254	ND < 0.004	NA	NA	NA
Aroclor 1260	ND < 0.004	NA	NA	NA
TOTAL	ND	0.1	1	3.2

Notes:
PCB analysis by United States Environmental Protection Agency (USEPA) Method SW846 8082.
ND = not detected
NOTE: VALIDATION OF THIS DATA HAS NOT YET BEEN COMPLETED.

Table 6
3750 Monroe Avenue, Town of Pittsford, New York
Summary of Detected VOCs in Groundwater
Results in Micrograms per Liter (µg/L) or Parts per Billion (ppb)

Well ID	MW-01	MW-02	MW-03	MW-03 (Re-Test)	GP-13/MW-13	GP-15/MW-15	MW-11	MW-12	NYSDEC TOGS 1.1.1 Groundwater Standards & Guidance Values
Sample/Screened Interval	2'-12' BGS	6'-16' BGS	2'-12' BGS	2'-12' BGS	Estim. 8'-16'	Estim. 2'-12'BGS	5'-15' BGS	5'-15' BGS	
Date of Sample Collection	5/11/2012	5/11/2012	5/11/2012	5/17/2012	5/30/2012	5/30/2012	5/31/2012	5/31/2012	
Tetrachloroethene	ND < 1.0	ND < 1.0	ND < 1.0	ND < 100	ND < 5.0	1.2 J	ND < 5.0	19	5
Trichloroethene	ND < 1.0	ND < 1.0	1,110	2,730	0.55 J	20	3,200	1,300	5
cis-1,2-Dichloroethene	ND < 1.0	ND < 1.0	418	492	ND < 5.0	ND < 5.0	220	32 J	5
trans-1,2-Dichloroethene	ND < 1.0	ND < 1.0	3.1	ND < 100	ND < 5.0	ND < 5.0	2.6 J	60	5
Vinyl chloride	ND < 1.0	ND < 1.0	181	ND < 100	ND < 5.0	ND < 5.0	41	ND < 5.0	2
1,1,1-Trichloroethane	ND < 1.0	ND < 1.0	4.7	ND < 100	ND < 5.0	0.71 J	1.9 J	1.4 J	5
1,1-Dichloroethene	ND < 1.0	ND < 1.0	16.1	ND < 100	ND < 5.0	ND < 5.0	36	14	5
1,1-Dichloroethane	ND < 1.0	ND < 1.0	14.3	ND < 100	ND < 5.0	ND < 5.0	32	2.2 J	5
Acetone	ND < 5.0	7.3	ND < 5.0	ND < 500	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	50
methyl tert butyl ether (MTBE)	ND < 1.0	ND < 1.0	3.7	N/A	ND < 5.0	ND < 5.0	0.85 J	ND < 5.0	NS
Toluene	ND < 1.0	ND < 1.0	1.4	ND < 100	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	5
m,p,-Xylene	ND < 1.0	ND < 1.0	1.7	ND < 100	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	5
o-Xylene	ND < 1.0	ND < 1.0	ND < 1.0	ND < 100	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	5
Xylene (total)	ND < 1.0	ND < 1.0	2.7	ND	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	NS
Methylene chloride	ND < 2.0	ND < 2.0	ND < 2.0	ND < 250	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	5
Chloroform	ND < 1.0	ND < 1.0	ND < 1.0	ND < 100	ND < 5.0	0.94 J	ND < 5.0	ND < 5.0	7
Benzene	ND < 0.50	ND < 0.50	ND < 0.50	ND < 35.0	ND < 5.0	ND < 5.0	ND < 5.0	0.58 J	1
1,1,2-Trichloroethane	ND < 1.0	ND < 1.0	ND < 1.0	ND < 100	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	1
Naphthalene	ND < 5.0	ND < 5.0	ND < 5.0	N/A	ND < 5.0	2.5 J	3.2 J	2.1 J	10
2-Hexanone	ND < 5.0	ND < 5.0	ND < 5.0	ND < 250	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	50
1,2-Dichloroethane	ND < 1.0	ND < 1.0	ND < 1.0	ND < 100	ND < 5.0	ND < 5.0	ND < 5.0	2.7 J	0.6

NS indicates there is No Standard or Guidance Value published in NYSDEC Division of Water’s Technical and Operational Guidance Series (TOGS) 1.1.1 Memorandum

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ND<11.0 denotes compound not detected above the method detection limit shown.

N/A = not analyzed

J = Laboratory Data Qualifier that indicates "analyte detected below quantitation limits"

E = Laboratory Data Qualifier that indicates "value above quantitation range"

J:\Norry Management Corporation\212440\Specifications\LAB.2012.06.22.GW summary tables

Table 6 (continued)
3750 Monroe Avenue, Town of Pittsford, New York
Summary of Detected VOCs in Groundwater
Results in Micrograms per Liter (µg/L) or Parts per Billion (ppb)

Well ID	MW-14	MW-16	MW-17	MW-18 (2X Dilution)	MW-19	MW-20	Blind Duplicate (MW-20)	NYSDEC TOGS 1.1.1 Groundwater Standards & Guidance Values
Sample/Screened Interval	5'-15' BGS	3'-13' BGS	2'-12' BGS	2'-12' BGS	2'-12' BGS	2'-12' BGS		
Date of Sample Collection	5/31/2012	5/31/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	
Tetrachloroethene	16	0.72 J	0.96 J	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	5
Trichloroethene	79,000	25,000	8,500	4.4 J	ND < 5.0	44	58	5
cis-1,2-Dichloroethene	1,400 J	190	260	ND < 10	ND < 5.0	5.9	6.3	5
trans-1,2-Dichloroethene	57	4.7 J	30	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	5
Vinyl chloride	2.3 J	1.1 J	1.1 J	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	2
1,1,1-Trichloroethane	5.4	7.0	ND < 5.0	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	5
1,1-Dichloroethene	390 E	90	29	ND < 10	ND < 5.0	1.5 J	2.0 J	5
1,1-Dichloroethane	140	22	3.6 J	ND < 10	ND < 5.0	2.1 J	2.2 J	5
Acetone	ND < 5.0	3.3 J	14	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	50
methyl tert butyl ether (MTBE)	ND < 5.0	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	NS
Toluene	0.65 J	8.3	0.64 J	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	5
m,p,-Xylene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	5
o-Xylene	2.1 J	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	5
Xylene (total)	2.1 J	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	NS
Methylene chloride	0.87 J	0.60 J	ND < 5.0	2.5 J	ND < 5.0	ND < 5.0	ND < 5.0	5
Chloroform	5.4	2.4 J	ND < 5.0	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	7
Benzene	3.6 J	1.8 J	0.55 J	ND < 10	ND < 5.0	0.71 J	0.73 J	1
1,1,2-Trichloroethane	17	3.0 J	1.1 J	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	1
Naphthalene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	10
2-Hexanone	ND < 5.0	ND < 5.0	5.4	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	50
1,2-Dichloroethane	110	3.2 J	ND < 5.0	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	0.6

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Bold and Shaded Type denotes that the reported value exceeds its associated NYSDEC TOGS 1.1.1 Groundwater Standard or Guidance Value.

ND<11.0 denotes compound not detected above the method detection limit shown.

N/A = not analyzed

J = Laboratory Data Qualifier that indicates "analyte detected below quantitation limits"

E = Laboratory Data Qualifier that indicates "value above quantitation range"

Table 6 (continued)
3750 Monroe Avenue, Town of Pittsford, New York
Summary of Detected VOCs in Groundwater
Results in Micrograms per Liter (µg/L) or Parts per Billion (ppb)

Well ID	MW-21	MW-22	MW-23	MW-24	Method Blank	Field Blank	NYSDEC TOGS 1.1.1 Groundwater Standards & Guidance Values
Sample/Screened Interval	18'-23' BGS	2'-12' BGS	4'-14' BGS	4'-14' BGS			
Date of Sample Collection	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	
Tetrachloroethene	ND < 5.0	2.4 J	3.7 J	3.9 J	ND < 5.0	ND < 5.0	5
Trichloroethene	1,400	220	43,000	51,000	1.4 J	ND < 5.0	5
cis-1,2-Dichloroethene	160	1.9 J	960 J	1,900 J	ND < 5.0	ND < 5.0	5
trans-1,2-Dichloroethene	23	0.94 J	11	14	ND < 5.0	ND < 5.0	5
Vinyl chloride	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	2
1,1,1-Trichloroethane	ND < 5.0	ND < 5.0	ND < 5.0	2.2 J	ND < 5.0	ND < 5.0	5
1,1-Dichloroethene	5.5	0.69 J	120	400 J	ND < 5.0	ND < 5.0	5
1,1-Dichloroethane	2.9 J	ND < 5.0	33	45	ND < 5.0	ND < 5.0	5
Acetone	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	50
methyl tert butyl ether (MTBE)	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	NS
Toluene	0.70 J	0.84 J	1.4 J	ND < 5.0	ND < 5.0	ND < 5.0	5
m,p,-Xylene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	5
o-Xylene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	5
Xylene (total)	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	NS
Methylene chloride	ND < 5.0	ND < 5.0	1.7 J	ND < 5.0	ND < 5.0	ND < 5.0	5
Chloroform	ND < 5.0	ND < 5.0	8.7	9.9	ND < 5.0	ND < 5.0	7
Benzene	ND < 5.0	ND < 5.0	1.7 J	3.0 J	ND < 5.0	ND < 5.0	1
1,1,2-Trichloroethane	ND < 5.0	ND < 5.0	6.4	8.4	ND < 5.0	ND < 5.0	1
Naphthalene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	10
2-Hexanone	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	50
1,2-Dichloroethane	ND < 5.0	ND < 5.0	13	8.4	ND < 5.0	ND < 5.0	0.6

NS indicates there is No Standard or Guidance Value published in NYSDEC Division of Water’s Technical and Operational Guidance Series (TOGS) 1.1.1 Memorandum

Bold and Shaded Type denotes that the reported value exceeds its associated NYSDEC TOGS 1.1.1 Groundwater Standard or Guidance Value.

ND<11.0 denotes compound not detected above the method detection limit shown.

N/A = not analyzed

J = Laboratory Data Qualifier that indicates "analyte detected below quantitation limits"

E = Laboratory Data Qualifier that indicates "value above quantitation range"

Table 7
3750 Monroe Avenue, Town of Pittsford, New York
Summary of Detected SVOCs in Groundwater
Results in Micrograms per Liter (µg/L) or Parts per Billion (ppb)

Well ID	MW-24	NYSDEC TOGS 1.1.1 Groundwater Standards & Guidance Values (Class GA)
Sample/Screened Interval	4'-14' BGS	
Date of Sample Collection	6/13/2012	
Di-n-butylphthalate	2.1 J	50
Bis(2-ethylhexyl)phthalate	1.5 J	5

NS indicates there is No Standard or Guidance Value published in NYSDEC Division of Water's Technical and Operational Guidance Series (TOGS) 1.1.1 Memorandum

Bold and Shaded Type denotes that the reported value exceeds its associated NYSDEC TOGS 1.1.1 Groundwater Standard or Guidance Value.

Only detected compounds are listed

N/A = not analyzed

J = Laboratory Data Qualifier that indicates "analyte detected below quantitation limits"

E = Laboratory Data Qualifier that indicates "value above quantitation range"

J:\Norry Management Corporation\212440\Specifications\LAB.2012.06.22.GW summary tables

Table 8

3750 Monroe Avenue, Town of Pittsford, New York
 Summary of Metals in Groundwater
 Results in Milligrams per Liter (mg/L) or Parts Per Million (ppm)

Sample ID	MW-24	NYSDEC TOGS 1.1.1 Groundwater Standards & Guidance Values
Sample/Screened Interval	4'-14' BGS	
Sample Collection Date	6/13/2012	
Target Analyte List (TAL) Metals		
Aluminum	300	0.1*
Antimony	ND < 0.020	0.003
Arsenic	0.23	0.025
Barium	2.7	1.000
Beryllium	0.010	0.003
Cadmium	0.030	0.005
Calcium	5,400	NL
Chromium	0.680	0.050
Cobalt	0.360	0.005*
Copper	1.0	0.200
Iron	760.0	0.300
Lead	0.180	0.025
Magnesium	950.0	35.000
Manganese	36.0	0.3
Mercury	0.00078	0.0007
Nickel	0.590	0.100
Potassium	22	NL
Selenium	0.053 B	0.010
Silver	ND < 0.030	0.050
Sodium	67.0	20.000
Thallium	0.057	0.0005
Vanadium	0.690	0.014*
Zinc	1.4	2.000

Note - This sample was noted to be turbid during sampling.

Bold and Shaded Type denotes that the reported value exceeds its associated NYSDEC TOGS 1.1.1 Groundwater Standard or Guidance Value.

B = Laboratory Data Qualifier that indicates "method blank contained trace levels of analyte"

NL indicates that the compound is not listed in this set of standards

* Indicates Standard for a Water Class other than GA

J:\Norry Management Corporation\212440\Specifications\LAB.2012.06.22.GW summary tables

ATTACHMENT A – Geophysical Report

90 B John Muir Drive
Amherst, New York 14228
(716) 565-0624 • Fax (716) 565-0625



May 15, 2012

Dan Noll, P.E.
Project Manager
LaBella Associates, P.C.
300 State Street, Suite 201
Rochester, NY 14614

Transmitted via email to: Noll, Dan [dnoll@LaBellaPC.com]

Dear Mr. Noll:

Subject: Geophysical Survey Results, 3750 Monroe Ave, Pittsford, NY

1.0 INTRODUCTION

This letter report presents the results of the geophysical investigation performed for LaBella Associates, P.C. in support of their environmental investigation of a property located at 3750 Monroe Avenue in Pittsford, NY (the Site). The survey area was a portion of an asphalt paved parking lot where historical information (collected by others) suggested the possibility of an Underground Storage Tank (UST).

The geophysical investigation was designed to geophysically characterize the subsurface and focus a follow-up intrusive investigation, if warranted. The information provided herein is intended to assist LaBella with their assessment of potential environmental concerns at the Site. The objective for the geophysical survey was to explore for subsurface anomalies. AMEC Environment and Infrastructure, Inc. (Amec) performed data acquisition on May 5th 2012 at a time when no vehicles were present in the study area.

2.0 METHODOLOGY

A reference grid was installed at the site to facilitate data acquisition along lines spaced three feet apart. The grid was marked with orange and white spray paint with select coordinates labeled to allow subsequent work if necessary. Grid Coordinate 0N,0E was selected to coincide with parking space markers at the southwest corner of the survey area. "Grid North" was taken as the direction perpendicular to the orientation of the parking spaces.

The site was geophysically surveyed using the Geonics EM61. The EM61 unit is a high sensitivity, high resolution time domain electromagnetic (TDEM) metal detector that can detect both ferrous and nonferrous metallic objects. It has an approximate investigation depth of 10 feet. The processing console is contained in a backpack worn by the operator which is

interfaced to a digital data logger. The transmitter and two receiver coils are located on a two-wheeled cart that is pulled by the operator.

The device's transmitter coil generates a pulsed primary EM field at a rate of 150 pulses per second, inducing eddy currents into the subsurface. The decay rates of these eddy currents are measured by two, 3.28 foot by 1.64 foot (1 meter by $\frac{1}{2}$ meter) rectangular receiver coils. By taking the measurements at a relatively long time frame after termination of the primary pulse, the response is practically independent of the survey area's terrain conductivity. Specifically, the decay rates of the eddy currents are much longer for metals than for normal soils allowing the discrimination of the two.



EM61 in use (photo not from this site)

Data are collected from the EM61's two receiver coils. One of the receiver coils is located coincident to the transmitter coil. The other receiver coil is located 1.31 feet (0.4 meters) above the transmitter coil. Data from the top receiver coil are stored on Channel 1 of a digital data logger. Data from the bottom receiver coil are stored on Channel 2 of the data logger. Channel 1 and Channel 2 data are simultaneously recorded at each station location. The

instrument responses are recorded in units of milliVolts (mV). Data were recorded

digitally by a data logger at a rate of approximately 2 measurements per foot along the survey lines which were spaced 3 feet apart.

3.0 RESULTS

The EM61 data for the site are shown in Figure 1. The color bar to the right of the map indicates the colors associated with the respective measured values. Areas suspected to be free of buried metals are shown as color shades of blue. All areas exhibiting a response greater than background (0 to 20 mVolts) likely contain buried metals. These areas are depicted in shades of dark blue through yellow on the figure.

Dan Noll, P.E.
LaBella Associates, P.C.
May 15, 2012
Page 3

Anomaly A – Anomaly A is a zone of buried metal anomalies located in the north east portion of the survey area. A portion of this anomaly appears to be associated with responses from what may be remnants of an old fence line (discussed below as Anomaly B). Anomaly A may represent a UST, remnants of a UST or other miscellaneous buried metals.

Anomaly B is north – south trending line of buried metal responses. This anomaly is similar to what would be expected from remnants of a fence line with the steel posts cut at grade. This anomaly is called out here for reference in the event that historical drawings containing the target UST may also show this old fence (and knowing the fence location may assist in refining the mapped position of the potential UST.

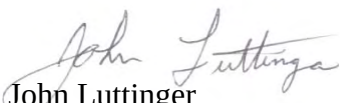
Several linear anomalies were observed and are interpreted to be related to subsurface utilities of culverts. These are denoted with dashed red lines on Figure 1. Any of the above background responses may be significant from an environmental perspective however they are more likely associated with miscellaneous buried metals.

4.0 LIMITATIONS

The geophysical methods used during this survey are established, indirect techniques for non-destructive subsurface reconnaissance exploration. As these instruments utilize indirect methods, they are subject to inherent limitations and ambiguities. Metallic surface features (electrical wires, scrap metal, etc.) preclude reliable non-invasive data/results beneath, and in the immediate vicinity of, the surface features. Targets such as buried drums, buried tanks, conduits, etc. are detectable only if they produce recognizable anomalies or patterns against the background geophysical data collected. As with any remote sensing technique, the anomalies identified during a geophysical survey should be further investigated by other techniques such as historical aerial photography, test pit excavation and/or test boring, if warranted.

Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely yours,
AMEC Environment and Infrastructure, Inc.


John Luttinger
Senior Geophysicist

ATTACHMENT B – Map from the Town of Pittsford

151.120-01-022

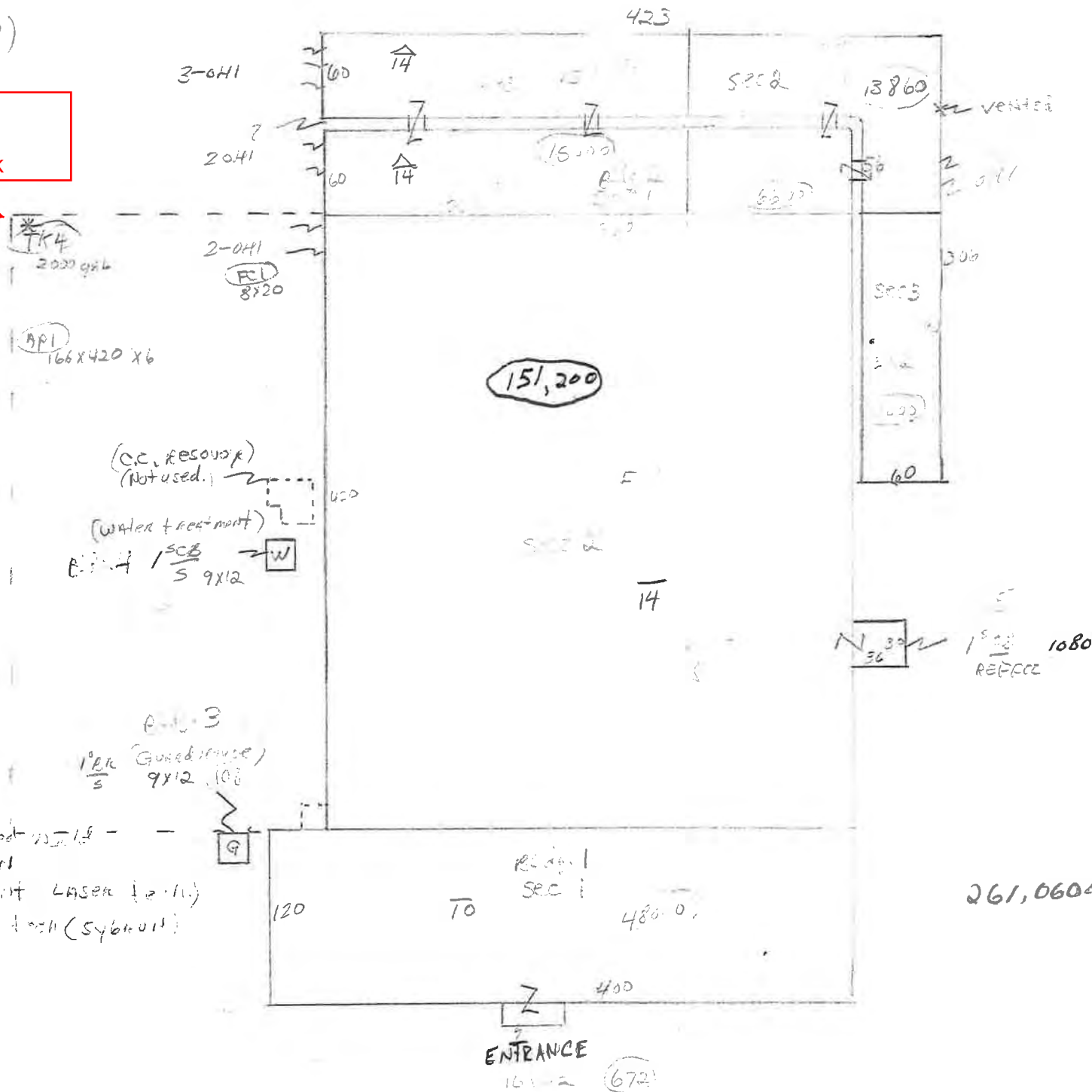
Hwy 100 S. 3750 MONROE AVE.

41.70 ACR.

Site Map Identified by Phase I ESA

(1=100)

Apparent
Underground
Storage Tank



ATTACHMENT C – Field Logs



TEST PIT LOG

PROJECT

Phase II ESA

3750 Monroe Avenue, Pittsford, NY

Test Pit: TP-01

SHEET 1 OF 1

JOB #:

CHKD BY:

300 STATE STREET, ROCHESTER, NY

ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: TREC

TEST PIT LOCATION: Eastern Pit

TIME: 13:15 TO 13:50

EXCAVATOR: Paul Wiley

GROUND SURFACE ELEVATION:

DATUM:

LABELLA REPRESENTATIVE: J. Jaskowiak

DATE: 5/10/2012

WEATHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0			Asphalt Fill (concrete with vertical pipe (likely fence post))		SAMPLE at 3' bgs
2			SILT/CLAY - petroleum odor	6.1	
			SILT - petroleum odor	8.3	
			CLAY - petroleum odor	2.3	
4			CLAY - no odor	0.0	
			CLAY - no odor	0.0	
6					
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				-Ft.	Approx. -ft. BGS	

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED.

3) ABBREVIATIONS:

and = 35 to 50 %

some = 20 to 35%

little = 10 to 20%

trace = 1 to 10%

c = coarse

m = medium

f = fine

vf = very fine

BGS = Below the Ground Surface

NA = Not Applicable

Test Pit: TP-01



TEST PIT LOG

PROJECT

Phase II ESA

3750 Monroe Avenue, Pittsford, NY

Test Pit: TP-02

SHEET 1 OF 1

JOB #:

CHKD BY:

300 STATE STREET, ROCHESTER, NY

ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: TREC

TEST PIT LOCATION: Eastern Pit

TIME: 14:06 TO 14:15

EXCAVATOR: Paul Wiley

GROUND SURFACE ELEVATION:

DATUM:

LABELLA REPRESENTATIVE: J. Jaskowiak

DATE: 5/10/2012

WEATHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0			Grass Topsoil 2' long piece of metal (sign post)		
2			Loamy SILT - light brown		
4			SILT and CLAY - gray		
			SILT and CLAY - gray		
6			SILT and CLAY - gray		
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				-Ft.	Approx. -ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED.
 - ABBREVIATIONS:
 - and = 35 to 50 %
 - some = 20 to 35%
 - little = 10 to 20%
 - trace = 1 to 10%
 - c = coarse
 - m = medium
 - f = fine
 - vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

Test Pit: TP-02



TEST PIT LOG

PROJECT

Phase II ESA

3750 Monroe Avenue, Pittsford, NY

Test Pit: TP-03

SHEET 1 OF 1

JOB #:

CHKD BY:

300 STATE STREET, ROCHESTER, NY

ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: TREC

TEST PIT LOCATION: Eastern Pit

TIME: 14:22 TO 14:39

EXCAVATOR: Paul Wiley

GROUND SURFACE ELEVATION:

DATUM:

LABELLA REPRESENTATIVE: J. Jaskowiak

DATE: 5/10/2012

WEATHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0			Asphalt Fill/subbase 2' long piece of metal (sign post)	0.0	
2			Fill - Loam and weathered stone		
4			SILT - gray		
			SILT and CLAY - gray	0.0	
6			Organic - soil/roots	0.0	
			CLAY		
8			CLAY		
10					
12					

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		-Ft.	Approx. -ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED.
 - ABBREVIATIONS:
 - and = 35 to 50 %
 - some = 20 to 35%
 - little = 10 to 20%
 - trace = 1 to 10%
 - c = coarse
 - m = medium
 - f = fine
 - vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

Test Pit: TP-03

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS				TEST BORING LOG			BORING: GP-01		
				Phase II ESA 3750 Monroe Avenue, Pittsford, NY			SHEET 1 OF JOB: CHKD BY:		
CONTRACTOR: TREC				BORING LOCATION:			TIME: TO		
DRILLER: Chad				GROUND SURFACE ELEVATION:			DATUM:		
LABELLA REPRESENTATIVE: J. Gillen				START DATE: 5/10/2012		END DATE:			
TYPE OF DRILL RIG: AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: Direct Push								DRIVE SAMPLER TYPE: INSIDE DIAMETER: ~1.8-Inch OTHER:	
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS			
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE						
0		40"	2"	Grass	0.0				
			3"	Crushed asphalt	0.0				
2			2'	Tan, dry SAND, some SILT	0.0				
4				Brown CLAY, some SILT, little SAND	0.0				
6		48"	5'	Brown CLAY, some SILT, little SAND	0.0				
				Brown/Tan CLAY, some SILT and SAND	0.0				
8			7'	Tan fine SAND, some SILT, wet (gw)	0.0				
10		48"	SAMPLE:GP-01 - 8'		0.0				
12			Tan fine SAND, some SILT, wet (gw)	0.0					
14			Bottom of Exploration - 12'		0.0				
16					0.0				
18					0.0				
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:			
DATE	TIME	ELAPSED TIME		-Ft.	~8'				
GENERAL NOTES									
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.									
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER									
3) Abbreviations									
and = 35 to 50 %									
some = 20 to 35%									
little = 10 to 20%									
trace = 1 to 10%									
c = coarse									
m = medium									
f = fine									
vf = very fine									
BGS = Below the Ground Surface									
NA = Not Applicable									
						BORING: GP-01			



300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST BORING LOG

Phase II ESA
3750 Monroe Avenue, Pittsford, NY

BORING: GP-02
SHEET 1 OF
JOB:
CHKD BY:

CONTRACTOR: TREC BORING LOCATION: TIME: TO
DRILLER: Chad GROUND SURFACE ELEVATION: DATUM:
LABELLA REPRESENTATIVE: J. Gillen START DATE: 5/10/2012 END DATE:

TYPE OF DRILL RIG: DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0			1"	Grass	0.0	
2	26"		14" 16"	Tan SAND and SILT, moist	0.0	
				Crushed brick, little crushed asphalt	0.0	
				Tan SAND and SILT, moist	0.0	
					0.0	
4						
6		40"	6'	Tan SAND and SILT, moist	0.0	
8				SAMPLE: GP-02 - 6'	0.0	
				Tan SAND and SILT, wet	0.0	
					0.0	
10		48"		Tan SAND and SILT, wet	0.0	
12					0.0	
					0.0	
					0.0	
14				Bottom of Exploration - 12'		
16						
18						
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER	NOTES: MW-01 Installed. SWL (510/12): 4.3' bgs
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED	
				-Ft.		

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations
and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%
c = coarse
m = medium
f = fine
vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: GP-02



300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST BORING LOG

Phase II ESA
3750 Monroe Avenue, Pittsford, NY

BORING: **GP-03**

SHEET 1 OF

JOB:

CHKD BY:

CONTRACTOR: TREC

DRILLER: Chad

LABELLA REPRESENTATIVE: J. Gillen

BORING LOCATION:

GROUND SURFACE ELEVATION:

START DATE: 5/10/2012

END DATE:

TIME: TO

DATUM:

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE:

OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:

INSIDE DIAMETER: ~1.8-Inch

OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0			1"	Gravel	0.0	
2		14"	14"	Tan/brown SAND and SILT SAMPLE: GP-3 - 14"	0.0	
4					0.0	
6		42"	5'	Tan/brown SAND and SILT, moist SAMPLE: GP-3 - 5'	0.0	
8			7'	Dark brown/gray CLAY, some SILT, no odor	0.0	
				Brown/gray/green CLAY and SILT, no odor	0.0	
10		48"	10'	Brown/gray/green CLAY and SILT, no odor, moist	0.0	
12				Brown/tan fine SAND and SILT, moist/wet	0.0	
14		48"		Brown/tan fine SAND and SILT, wet		
16						
18				Bottom of Exploration - 16'		
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		-Ft.	~10'	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations
 - and = 35 to 50 %
 - some = 20 to 35%
 - little = 10 to 20%
 - trace = 1 to 10%
 - c = coarse
 - m = medium
 - f = fine
 - vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: **GP-03**

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS				TEST BORING LOG			BORING: GP-04 SHEET 1 OF JOB: CHKD BY:	
				Phase II ESA 3750 Monroe Avenue, Pittsford, NY				
CONTRACTOR: TREC		BORING LOCATION:		TIME:		TO		
DRILLER: Chad		GROUND SURFACE ELEVATION:		DATUM:				
LABELLA REPRESENTATIVE: J. Gillen		START DATE: 5/10/2012		END DATE:				
TYPE OF DRILL RIG: AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: Direct Push				DRIVE SAMPLER TYPE: INSIDE DIAMETER: ~1.8-Inch OTHER:				
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS		
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE					
0			1"	Grass				
2		44"		Tan SAND, some SILT, dry	0.0			
4					0.0			
6		46"	4.5'	Tan SAND, some SILT, dry	0.0			
8			6'	SAMPLE: GP-04 - 6' Dark brown/gray CLAY, some SILT, moist, no odor	0.0			
10			7.5'	Dark brown/black CLAY, some SILT, no odor, dry	0.0			
12		48"	9'	Dark brown/black CLAY, some SILT, no odor, dry	0.0			
14			10'	Dark brown/gray CLAY, some SILT, moist, no odor	0.0			
16				Brown/gray/green CLAY and SILT, moist, no odor	0.0			
18		48"		Brown/tan SILT and CLAY, wet, little orange staining				
20				Bottom of Exploration - 16'				
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES: <u>MW-02 installed; SWL (5/11/12); 7.47' bgs</u>		
DATE	TIME	ELAPSED TIME						
				-Ft.				
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER 3) Abbreviations and = 35 to 50 % c = coarse some = 20 to 35% m = medium BGS = Below the Ground Surface little = 10 to 20% f = fine NA = Not Applicable trace = 1 to 10% vf = very fine								
						BORING: GP-04		

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS				TEST BORING LOG			BORING: GP-05	
				Phase II ESA 3750 Monroe Avenue, Pittsford, NY			SHEET 1 OF JOB: CHKD BY:	
CONTRACTOR: TREC				BORING LOCATION:		TIME: TO		
DRILLER: Chad				GROUND SURFACE ELEVATION:		DATUM:		
LABELLA REPRESENTATIVE: J. Gillen				START DATE: 5/10/2012		END DATE:		
TYPE OF DRILL RIG:				DRIVE SAMPLER TYPE:				
AUGER SIZE AND TYPE:				INSIDE DIAMETER: ~1.8-Inch				
OVERBURDEN SAMPLING METHOD: Direct Push				OTHER:				
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS		
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE					
0			1"	Grass	0.0			
2		36"		Tan SILT and fine SAND	0.0			
					0.0			
					0.0			
4			3'	Tan/brown fine SAND and SILT	0.0			
6		48"	5'	Tan/brown fine SAND and SILT	0.0			
					0.0			
				Dark brown/gray CLAY and SILT	0.0			
					0.0			
8			6'	Tan/brown CLAY and SILT, moist	0.0			
10		22"		Tan/brown CLAY and SILT, moist	0.0			
12					0.0			
14		48"	13'	Dark brown SILT and SAND, no odor	0.0			
16				SAMPLE: GP-05 - 13'				
				Brown/tan SILT and SAND, wet (gw)	0.0			
					0.0			
18				Bottom of Exploration - 16' bgs	0.0			
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:		
DATE	TIME	ELAPSED TIME		-Ft.	~13'			
GENERAL NOTES								
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.								
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER								
3) Abbreviations								
and = 35 to 50 %								
some = 20 to 35%								
little = 10 to 20%								
trace = 1 to 10%								
c = coarse								
m = medium								
f = fine								
vf = very fine								
BGS = Below the Ground Surface								
NA = Not Applicable								
						BORING: GP-05		

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS				TEST BORING LOG			BORING: GP-06		
				Phase II ESA 3750 Monroe Avenue, Pittsford, NY			SHEET 1 OF JOB: CHKD BY:		
CONTRACTOR: TREC				BORING LOCATION:			TIME: TO		
DRILLER: Chad				GROUND SURFACE ELEVATION:			DATUM:		
LABELLA REPRESENTATIVE: J. Gillen				START DATE: 5/10/2012		END DATE:			
TYPE OF DRILL RIG: AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: Direct Push								DRIVE SAMPLER TYPE: INSIDE DIAMETER: ~1.8-Inch OTHER:	
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS			
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE						
0			4"	Asphalt/gravel	0.0				
2		36"		Brown/gray SILT	0.0				
					0.0				
4					0.0				
6		42"	5'	Brown/gray SILT	0.0				
				Brown/tan SILT, some fine SAND	0.0				
8					0.0				
					0.0				
10		48"		Brown/tan SILT, some fine SAND	0.0				
					0.0				
12					0.0				
14		48"	14'	Brown/tan SILT, some fine SAND, wet SAMPLE: GP-06 - 14'	0.0				
					0.0				
16					0.0				
				Bottom of Exploration - 16' bgs					
18									
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER	NOTES:			
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED				
				-Ft.	~9'				
GENERAL NOTES									
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.									
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER									
3) Abbreviations									
and = 35 to 50 %									
some = 20 to 35%									
little = 10 to 20%									
trace = 1 to 10%									
c = coarse									
m = medium									
f = fine									
vf = very fine									
BGS = Below the Ground Surface									
NA = Not Applicable									
						BORING: GP-06			

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS				TEST BORING LOG			BORING: GP-07		
				Phase II ESA 3750 Monroe Avenue, Pittsford, NY			SHEET 1 OF JOB: CHKD BY:		
CONTRACTOR: TREC				BORING LOCATION:			TIME: TO		
DRILLER: Chad				GROUND SURFACE ELEVATION:			DATUM:		
LABELLA REPRESENTATIVE: J. Gillen				START DATE: 5/10/2012		END DATE:			
TYPE OF DRILL RIG: AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: Direct Push								DRIVE SAMPLER TYPE: INSIDE DIAMETER: ~1.8-Inch OTHER:	
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS			
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE						
0			4"	Gravel	0.0				
2		46"	2.5'	Tan SILT and SAND, dry	0.0				
4				Dark brown/gray SILT and CLAY, moist, no odor	0.0				
6		42"	7.5'	Dark brown/gray SILT and CLAY, moist, no odor	0.0				
8				Tan/brown SILT and fine SAND, wet	0.0				
10		48"	SAMPLE: GP-07 - 8'	Tan/brown SILT and fine SAND, wet	0.0				
12					0.0				
14				Bottom of Exploration - 12'					
16									
18									
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:			
DATE	TIME	ELAPSED TIME		-Ft.	~7.5'				
GENERAL NOTES									
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.									
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER									
3) Abbreviations									
and = 35 to 50 %									
some = 20 to 35%									
little = 10 to 20%									
trace = 1 to 10%									
c = coarse									
m = medium									
f = fine									
vf = very fine									
BGS = Below the Ground Surface									
NA = Not Applicable									
BORING: GP-07									

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS				TEST BORING LOG			BORING: GP-08		
				Phase II ESA 3750 Monroe Avenue, Pittsford, NY			SHEET 1 OF JOB: CHKD BY:		
CONTRACTOR: TREC				BORING LOCATION:			TIME: TO		
DRILLER: Chad				GROUND SURFACE ELEVATION:			DATUM:		
LABELLA REPRESENTATIVE: J. Gillen				START DATE: 5/10/2012		END DATE:			
TYPE OF DRILL RIG: AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: Direct Push								DRIVE SAMPLER TYPE: INSIDE DIAMETER: ~1.8-Inch OTHER:	
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS			
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE						
0			4"	Asphalt/gravel	0.0				
2		32"		Brown/tan SILT and SAND, some coarse gravel, no odor	0.0				
4					0.0				
6		40"	5'	Brown/tan SILT and SAND, some coarse gravel, no odor	0.0				
8				Dark brown CLAY, some SILT	0.0				
10			9.5'	Dark brown SILT, some pea gravel, wet, no odor	0.0				
12				SAMPLE: GP-08 - 10'	0.0				
14				Brown/tan SILT, some fine SAND, wet	0.0				
16				Bottom of Exploration - 12'					
18									
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:			
DATE	TIME	ELAPSED TIME		-Ft.					
GENERAL NOTES									
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.									
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER									
3) Abbreviations									
and = 35 to 50 %									
some = 20 to 35%									
little = 10 to 20%									
trace = 1 to 10%									
c = coarse									
m = medium									
f = fine									
vf = very fine									
BGS = Below the Ground Surface									
NA = Not Applicable									
BORING: GP-08									

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS				TEST BORING LOG			BORING: GP-09	
				Phase II ESA 3750 Monroe Avenue, Pittsford, NY			SHEET 1 OF JOB: CHKD BY:	
CONTRACTOR: TREC				BORING LOCATION:		TIME: TO		
DRILLER: Chad				GROUND SURFACE ELEVATION:		DATUM:		
LABELLA REPRESENTATIVE: J. Gillen				START DATE: 5/10/2012		END DATE:		
TYPE OF DRILL RIG:				DRIVE SAMPLER TYPE:				
AUGER SIZE AND TYPE:				INSIDE DIAMETER: ~1.8-Inch				
OVERBURDEN SAMPLING METHOD: Direct Push				OTHER:				
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS		
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE					
0		38"	14"	Crushed asphalt and gravel	0.0			
2			24"	Tan/brown SILT and fine SAND	0.0			
				Dark brown CLAY, some SILT, no odor	0.0			
4								
6		40"	5'	Dark brown CLAY, some SILT, no odor	0.0			
8				Dark brown SILT, some pea gravel, no odor	0.0			
					0.0			
10		40'	9'	Dark brown SILT, some pea gravel, no odor, wet	0.0			
12				Brown/tan SILT and fine SAND, little orange staining, no odor, wet	0.0			
					0.0			
14				Bottom of Exploration - 12'				
16								
18								
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:		
DATE	TIME	ELAPSED TIME		-Ft.	~8'			
GENERAL NOTES								
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.								
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER								
3) Abbreviations								
and = 35 to 50 %								
some = 20 to 35%								
little = 10 to 20%								
trace = 1 to 10%								
c = coarse								
m = medium								
f = fine								
vf = very fine								
BGS = Below the Ground Surface								
NA = Not Applicable								
						BORING: GP-09		



300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST BORING LOG

Phase II ESA
3750 Monroe Avenue, Pittsford, NY

BORING: **GP-10**

SHEET 1 OF

JOB:

CHKD BY:

CONTRACTOR: TREC BORING LOCATION: TIME: TO
DRILLER: Chad GROUND SURFACE ELEVATION: DATUM:
LABELLA REPRESENTATIVE: J. Gillen START DATE: 5/10/2012 END DATE:

TYPE OF DRILL RIG: DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0			2"	Asphalt and gravel	0.0	
2		36"		Brown/gray SILT and CLAY	0.0	
4					0.0	
6		40"		Brown/gray SILT and CLAY	0.0	
8					0.0	
10		36"	9'	Brown/gray SILT and CLAY	0.0	
12				Brown/tan SILT and fine SAND, wet, no odor	0.0	
14				Bottom of Exploration - 12'		
16						
18						
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES: MW-03 installed; SWL (5/11/2012): 4.7' bgs
DATE	TIME	ELAPSED TIME		-Ft.		

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations
 - and = 35 to 50 %
 - some = 20 to 35%
 - little = 10 to 20%
 - trace = 1 to 10%
 - c = coarse
 - m = medium
 - f = fine
 - vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: **GP-10**

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling			BORING: GP-11 SHEET 1 OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Jim A. & Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: to North of GP-10/MW-03, near stream in grass GROUND SURFACE ELEVATION NA START DATE: 5/30/2012 END DATE: 5/30/2012 DATUM: NA					
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:		
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS		
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE					
0	0' to 4'	S-1	3.5'	grass, topsoil atop reddish-brown Clayey Silt	0 ppb			
2		39"			0 ppb			
4				dark reddish-brown Silty Clay				
6	4' to 8'	S-2	7.5'	dark gray Silty Clay, trace brick, moist	0 ppb			
8		36"		wood, organics and gray Sand atop dark brown Silty Clay	0 ppb			
10	8' to 12'	S-3	10'	gray Silty Clay, trace Gravel at 11 feet BGS	0 ppb	sample 11-12		
12					190-300 ppb			
14				End of Boring @ 12 feet BGS				
16								
WATER LEVEL DATA			DEPTH (FT)		NOTES: Set 1-inch PVC well (MW-11) to 15 feet BGS with 10 feet of 0.010-inch slot well screen. Used 3.25-inch casing and disposable point to set well. Sand pack from bottom to 3 feet BGS, with bentonite clay plug above sand pack. Finished at grade with flush-mount road box.			
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING				GROUNDWATER ENCOUNTERED
				12 feet BGS				
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE								
							BORING: GP-11	

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-12 SHEET 1 OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Jim A. & Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: to West of Suite 200 and Northwestern portion of Site Building, in grass GROUND SURFACE ELEVATION NA DATUM: NA START DATE: 5/30/2012 END DATE: 5/30/2012						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:			
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0	0' to 4'	S-1		grass, reworked native and fill material brown and brownish-gray Sand, Silt, and Gravel, trace asphalt	0 ppb				
2		36"			0 ppb				
4									
6	4' to 8'	S-2		light gray and dark gray Silt, trace Clay, moist @ 8 feet BGS	0 ppb				
8		39"			0 ppb				
10	8' to 12'	S-3	11'	gray Silty Clay, trace Gravel at 11 feet BGS reddish-brown Silty f Sand, saturated	0 ppb	sample 10-11			
12		36"			0 ppb				
14	12' to 16'	S-4		reddish-brown Silty f Sand, saturated End of Boring @ 16 feet BGS	0 ppb				
16		48"			0 ppb				
			DEPTH (FT)		NOTES: Set 1-inch PVC well (MW-12) to 15 feet BGS with 10 feet of 0.010-inch slot well screen. Finished at grade with flush-mount road box.				
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF			GROUNDWATER		
DATE	TIME	ELAPSED TIME	CASING	BORING			ENCOUNTERED		
				16 feet BGS			8 feet BGS		
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-12			

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-13 SHEET 1 OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Jim A. & Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: Near Northwestern corner of Site Building, in grass GROUND SURFACE ELEVATION NA START DATE: 5/30/2012 END DATE: 5/30/2012 DATUM: NA						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:			
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0	0' to 4'	S-1		grass brown Sand, Silt, and Gravel (fill)	0 ppb				
2		30"			0 ppb				
4									
6	4' to 8'	S-2		reddish-brown Clayey Silt, trace Gravel	0 ppb				
8		30"			0 ppb				
10	8' to 12'	S-3		gray Silty Clay, trace Gravel at 11 feet BGS	0 ppb				
12		40"			0 ppb				
14	12' to 16'	S-4		gray and brownish-gray Silty f Sand, trace Clay, saturated	0 ppb				
16		48"			0 ppb				
							similar to above, but reddish-brown		
				End of Boring @ 16 feet BGS					
WATER LEVEL DATA			DEPTH (FT)		NOTES: Set temporary 1-inch PVC well to grab groundwater sample (GP-13). Well point removed after sampling.				
			BOTTOM OF CASING	BOTTOM OF BORING			GROUNDWATER ENCOUNTERED		
DATE	TIME	ELAPSED TIME		16 feet BGS			10 feet BGS		
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-13			

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling			BORING: GP-14 SHEET 1 OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Jim A. & Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In grass to South of active loading docks GROUND SURFACE ELEVATION NA START DATE: 5/30/2012 END DATE: 5/30/2012 DATUM: NA					
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:		
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS		
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE					
0	0' to 4'	S-1		grass, topsoil atop reddish-brown Clayey Silt	0 ppb			
2		40"			0 ppb			
4								
6	4' to 8'	S-2		reddish-brown Silt, trace Clay, wet to saturated	0 ppb	sample 6-8		
8		44"			0 ppb			
10	8' to 12'	S-3	9'	similar to above, saturated	600-1,100 ppb	sample 10-12		
12		36"			brownish-gray Silty f Sand, saturated		1-40 ppm	
14	12' to 16'	S-4		gray Silty f Sand, saturated	19-50 ppm			
16								
			DEPTH (FT)		NOTES:			
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER	Set 1-inch PVC well (MW-14) to 15 feet BGS with 10 feet of 0.010-inch slot well screen. Used 3.25-inch casing and disposable point to set well. Sand pack from bottom to 3 feet BGS, with bentonite clay plug above sand pack. Finished at grade with flush-mount road box.		
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED			
				16 feet BGS	5 feet BGS			
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE								
						BORING: GP-14		

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-15 SHEET 1 OF OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Jim A. & Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In grass approx. 80 feet to South of GP-14/MW-14 GROUND SURFACE ELEVATION NA START DATE: 5/30/2012 END DATE: 5/30/2012 DATUM: NA						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:			
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0	0' to 4'	S-1	1.5'	grass and coarse-grained fill material	0 ppb				
2		34"		reddish light brown Clayey Silt, moist	0 ppb				
4									
6	4' to 8'	S-2		similar to above, but more Clay, moist to wet	0 ppb				
8		46"			0 ppb				
10	8' to 12'	S-3		similar to above, but trace f Sand, trace f Gravel	0 ppb				
12		27"			0 ppb				
14				End of Boring @ 12 feet BGS					
16									
			DEPTH (FT)			NOTES: Set 1-inch PVC well to grab groundwater sample (GP-15). Well point left as "stick-up" well after sampling.			
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER				
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED				
				12 feet BGS	5 feet BGS				
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-15			

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling			BORING: GP-16 SHEET 1 OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Jim A. & Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In asphalt parking lot, to West of active loading docks GROUND SURFACE ELEVATION NA START DATE: 5/30/2012 END DATE: 5/30/2012 DATUM: NA					
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:		
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS		
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE					
0	0' to 4'	S-1	0.5'	asphalt and Gravel sub-base, f/c Gravel grayish-brown to reddish-brown Clayey Silt	3,600 ppb (in gravel sub-base)			
2		24"			0 ppb			
4								
6	4' to 8'	S-2		grayish-brown to reddish-brown Silty f Sand, trace Clay, wet @ 6 feet BGS	0 ppb			
8		36"			300-1,950 ppb			
10	8' to 12'	S-3		reddish-brown Silty f Sand, saturated	11-16 ppm	sample 9-11		
12		24"						
14				End of boring at 12 feet BGS				
16								
WATER LEVEL DATA			DEPTH (FT)		NOTES: Set 1-inch PVC well (MW-16) to 13 feet BGS with 10 feet of 0.010-inch slot well screen. Used 3.25-inch casing and disposable point to set well. Sand pack from bottom to 1.5 feet BGS, with bentonite clay plug above sand pack. Finished at grade with flush-mount road box.			
			BOTTOM OF CASING	BOTTOM OF BORING				GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME		12 feet BGS				6 feet BGS
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE								
						BORING: GP-16		

 LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-17 SHEET 1 OF OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Jim A. & Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In asphalt parking lot, to West of building GROUND SURFACE ELEVATION NA START DATE: 5/30/2012 END DATE: 5/30/2012 DATUM: NA						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push			DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:						
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0				No sampling; boring advanced to ~12-ft bgs and well installed.					
2									
4									
6									
8									
10									
12									
14									
16									
			DEPTH (FT)			NOTES: Set 1-inch PVC well (MW-17) to ~11 feet BGS.			
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER				
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED				
				12 feet BGS					
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-17			

 LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-18 SHEET 1 OF OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Jim A. & Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In asphalt parking lot, to West of building GROUND SURFACE ELEVATION NA START DATE: 5/30/2012 END DATE: 5/30/2012 DATUM: NA						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push			DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:						
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0				No sampling; boring advanced to ~12-ft bgs and well installed.					
2									
4									
6									
8									
10									
12									
14									
16									
			DEPTH (FT)			NOTES: Set 1-inch PVC well (MW-18) to ~12 feet BGS.			
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER				
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED				
				12 feet BGS					
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-18			

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-19 SHEET 1 OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In asphalt parking lot, to North of GP-11 and Creek GROUND SURFACE ELEVATION NA START DATE: 6/12/2012 END DATE: 6/12/2012 DATUM: NA						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:			
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0	0' to 4'	S-1	2'	asphalt and Gravel sub-base atop brown and gray Clayey Silt and f/c Gravel	0 ppb				
2		33"			0 ppb				
4				gray Clayey Silt, moist to wet					
6	4' to 8'	S-2	7'	Similar to above	0 ppb				
8		24"		bluish-gray f Sandy Silt with red mottling	0 ppb				
10	8' to 12'	S-3		brown atop gray Silty f Sand, saturated	0 ppb				
12		46"			0 ppb				
14				End of boring at 12 feet BGS					
16									
			DEPTH (FT)			NOTES: Set 1-inch PVC well (MW-19) to 12 feet BGS with 10 feet of 0.010-inch slot well screen. Finished at grade with flush-mount road box.			
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED				
DATE	TIME	ELAPSED TIME							
				12 feet BGS	10 feet BGS				
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-19			

 LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-20 SHEET 1 OF OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Jim A. & Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In asphalt parking lot, to Northwest of building GROUND SURFACE ELEVATION NA START DATE: 5/30/2012 END DATE: 5/30/2012 DATUM: NA						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push			DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:						
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0				No sampling; boring advanced to ~12-ft bgs and well installed.					
2									
4									
6									
8									
10									
12									
14									
16									
			DEPTH (FT)			NOTES: Set 1-inch PVC well (MW-20) to ~12 feet BGS.			
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER				
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED				
				12 feet BGS					
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-20			

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling			BORING: GP-21 SHEET 1 OF 2 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In asphalt parking lot, to South of GP/MW-16 GROUND SURFACE ELEVATION NA START DATE: 6/12/2012 END DATE: 6/12/2012 DATUM: NA					
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:		
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS		
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE					
0	0' to 4'	S-1	1.5'	asphalt and Gravel sub-base with tar	842 ppb			
2		46"		grayish-brown Silt atop gray Clayey Silt	0 ppb			
4					0 ppb			
6	4' to 8'	S-2		grayish-brown to reddish-brown Silt, trace f Sand, moist to wet	0 ppb			
8		36"			1,050 ppb			
10	8' to 12'	S-3		reddish-brown to grayish-brown Silty f Sand, saturated	13 ppm			
12		36"			21 ppm			
14	12' to 16'	S-4		Similar to above	5,000 ppb			
16		36"			2,050 ppb			
WATER LEVEL DATA			DEPTH (FT)		NOTES: Set 1-inch PVC well (MW-21) to 23 feet BGS with 5 feet of 0.010-inch slot well screen. Used 3.25-inch casing and disposable point to set well. Sand pack from bottom to 16.5 feet BGS, with bentonite clay above sand pack. Finished at grade with flush-mount road box.			
			BOTTOM OF CASING	BOTTOM OF BORING				GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME		23.8 feet BGS				8 feet BGS
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE								
							BORING: GP-21	

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling			BORING: GP-21 SHEET 2 OF 2 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In asphalt parking lot, to South of GP/MW-16 GROUND SURFACE ELEVATION NA START DATE: 6/12/2012 END DATE: 6/12/2012 DATUM: NA					
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:		
DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS		
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE					
16	16' to 20'	S-5		Similar to above	2,100 ppb			
18					0 ppb			
20								
22	20' to 23.8'	S-6	22'	Similar to above gray Clayey Silt with f Gravel, hard Refusal at 23.8 feet BGS	0 ppb	sample 22-23.8		
24					0 ppb			
WATER LEVEL DATA			DEPTH (FT)		NOTES: Set 1-inch PVC well (MW-21) to 23 feet BGS with 5 feet of 0.010-inch slot well screen. Used 3.25-inch casing and disposable point to set well. Sand pack from bottom to 16.5 feet BGS, with bentonite clay above sand pack. Finished at grade with flush-mount road box.			
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING				GROUNDWATER ENCOUNTERED
				23.8 feet BGS				8 feet BGS
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE								
						BORING: GP-21		

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-22 SHEET 1 OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In asphalt driveway to West of Southern Loading Dock GROUND SURFACE ELEVATION NA START DATE: 6/12/2012 END DATE: 6/12/2012 DATUM: NA						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:			
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0	0' to 4'	S-1		asphalt and Gravel sub-base atop reddish-brown Clayey Silt	0 ppb				
2		36"			0 ppb				
4									
6	4' to 8'	S-2		Similar to above, saturated, trace f Sand	0 ppb				
8		38"			0 ppb				
10	8' to 12'	S-3	11'	Similar to above, but more Clay, saturated gray Silty f Sand, trace Clay	0 ppb				
12		46"			0 ppb				
14				End of boring at 12 feet BGS					
16									
			DEPTH (FT)		NOTES: Set 1-inch PVC well (MW-22) to 12 feet BGS with 10 feet of 0.010-inch slot well screen. Finished at grade with flush-mount road box.				
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF			GROUNDWATER		
DATE	TIME	ELAPSED TIME	CASING	BORING			ENCOUNTERED		
				12 feet BGS			10 feet BGS		
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-22			

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-23 SHEET 1 OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In grass, to North of entrance to Suite 400 GROUND SURFACE ELEVATION NA START DATE: 6/12/2012 END DATE: 6/12/2012 DATUM: NA						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:			
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0	0' to 4'	S-1		topsoil and loamy Silt atop reddish-brown Clayey Silt, trace f Sand	5,100 ppb				
2		40"			700 ppb				
4									
6	4' to 8'	S-2		reddish-brown Silt, trace f Sand, saturated	0 ppb				
8		42"			201 ppb				
10	8' to 12'	S-3		Similar to above	5,100 ppb				
12		24"			2,700 ppb				
14	12' to 14'	S-4		Similar to above, but light brownish-red	21 ppm				
16		12"					End of boring at 14 feet BGS		
			DEPTH (FT)		NOTES: Set 1-inch PVC well (MW-23) to 14 feet BGS with 10 feet of 0.010-inch slot well screen. Left as an unfinished "stick-up" well.				
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF			GROUNDWATER		
DATE	TIME	ELAPSED TIME	CASING	BORING			ENCOUNTERED		
				14 feet BGS			4 feet BGS		
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-23			

 300 STATE STREET, ROCHESTER, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			PROJECT 3750 Monroe Avenue Pittsford, NY Geoprobe® Soil Sampling				BORING: GP-24 SHEET 1 OF 1 PROJECT NO. 212440 CHKD BY:		
CONTRACTOR: TREC DRILLER: Mike E. LABELLA REPRESENTATIVE: K R Miller			BORING LOCATION: In grass, to South of entrance to Suite 400 GROUND SURFACE ELEVATION NA START DATE: 6/12/2012 END DATE: 6/12/2012 DATUM: NA						
TYPE OF DRILL RIG: Geoprobe® Systems 6620 AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Direct-Push						DRIVE SAMPLER TYPE: 4-foot Macro-Core INSIDE DIAMETER: 1.8" OTHER:			
D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN	REMARKS			
	LENGTH OF DRILL STRING	SAMPLE NO. AND RECOVERY	STRATA CHANGE						
0	0' to 4'	S-1		grass, topsoil atop c Gravel and reddish-brown Clayey Silt, trace f Sand, moist	0 ppb				
2		46"			0 ppb				
4									
6	4' to 8'	S-2	7'	Similar to above, saturated	0 ppb				
8		46"			0 ppb				
10	8' to 12'	S-3		Similar to above, but no Gravel, trace Sand, saturated	51 ppm (maximum)				
12		30"							
14	12' to 14'	S-4		Similar to above	21 ppm (maximum)				
16		12"		End of boring at 14 feet BGS					
			DEPTH (FT)		NOTES: Set 1-inch PVC well (MW-24) to 14 feet BGS with 10 feet of 0.010-inch slot well screen. Left as an unfinished "stick-up" well.				
WATER LEVEL DATA			BOTTOM OF	BOTTOM OF			GROUNDWATER		
DATE	TIME	ELAPSED TIME	CASING	BORING			ENCOUNTERED		
				14 feet BGS			5 feet BGS		
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING: GP-24			



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-11

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 5/31/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 4.08 feet BTOC
Depth of Well: +/-15 feet One Well Volume: +/-0.4 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

Time	Gallons Purged	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
11:00	0.05	2.04	6.03	6.52	-53.0	
11:05	0.25	5.23	5.98	6.56	-50.1	
11:10	0.5	6.14	5.94	6.57	-49.2	
11:15	0.75	6.74	6.01	6.60	-50.0	
11:20	1.0	0.82	5.73	6.64	-72.7	
11:25	1.25	0.67	5.68	6.59	-75.1	
11:30	1.5	0.67	5.48	6.50	-77.9	
11:35	1.75	0.64	5.42	6.50	-80.7	
11:40	2.0	0.53	5.07	6.55	-105.4	
Sample @ 11:45		0.50	4.84	6.62	-130.4	

Total +/-2 Gallons Purged

Purge Time Start: 11:00 Purge Time End: 11:40

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-12

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 5/31/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 7.63 feet BTOC
Depth of Well: +/-15 feet One Well Volume: +/-0.3 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

Time	Gallons Purged	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
12:55	0.05	1.31	11.19	6.75	-85.4	
13:00	0.25	0.51	6.68	6.62	-133.3	
13:05	0.5	0.45	7.37	6.66	-265.7	
13:10	0.75	0.48	9.88	6.56	-298.7	
13:15	1.0	0.42	8.40	6.64	-317.2	
13:20	1.25	0.40	7.97	6.64	-325.5	
13:25	1.5	0.39	7.42	6.65	-316.9	
Sample @ 13:30		0.36	7.33	6.65	-315.8	

Total +/-1.5 Gallons Purged

Purge Time Start: 12:55 Purge Time End: 13:25

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-14

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 5/31/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 5.47 feet BTOC
Depth of Well: +/-15 feet One Well Volume: +/-0.4 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

Time	Gallons Purged	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
15:20	0.05	1.68	1.36	7.14	-240.0	
15:25	0.25	1.27	1.36	7.12	-257.3	
15:30	0.5	0.52	1.36	7.16	-335.5	
15:35	0.75	0.42	1.37	7.19	-357.1	
15:40	1.0	0.56	1.33	7.16	-341.3	
Sample @ 15:45		0.60	1.31	7.15	-333.6	

Total +/-1 Gallons Purged

Purge Time Start: 15:20 Purge Time End: 15:40

OBSERVATIONS

Notes:

Purge water slightly turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-16

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 5/31/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 5.01 feet BTOC
Depth of Well: +/-13 feet One Well Volume: +/-0.3 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

Time	Gallons Purged	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
14:15	0.05	2.64	6.71	6.48	-76.7	
14:20	0.25	4.62	7.35	6.58	-68.4	
14:25	0.5	3.58	5.10	6.69	-107.5	
14:30	0.75	0.57	6.35	6.55	-40.3	
14:35	1.0	0.47	5.60	6.66	-55.0	
14:40	1.25	0.44	4.08	6.74	-87.8	
Sample @ 14:45		0.42	4.45	6.71	85.2	

Total +/-1.25 Gallons Purged

Purge Time Start: 14:15 Purge Time End: 14:40

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-17

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 6/13/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 3.50 feet BTOC
Depth of Well: +/-11 feet One Well Volume: +/-0.3 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	Temp (°C)	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
13:05	0.05	20.8	3.89	5.10	7.37	-63.9	
13:10	0.25	21.1	2.69	5.61	7.23	-127.6	
13:15	0.5	20.8	1.97	5.75	7.19	-186.6	
13:20	0.75	20.3	0.28	9.53	7.19	-263.4	
13:25	1.0	20.5	0.18	10.62	7.14	-361.4	
Sample @ 13:30		20.2	0.12	10.69	7.12	-343.9	

Total +/-1 Gallons Purged

Purge Time Start: 13:05 Purge Time End: 13:25

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-18

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 6/13/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 2.85 feet BTOC
Depth of Well: +/-12 feet One Well Volume: +/-0.4 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	Temp (°C)	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
14:10	0.05	21.8	2.55	2.47	7.27	-16.9	
14:15	0.25	21.8	0.68	6.84	6.75	-104.8	
14:20	0.5	21.2	0.51	7.60	6.66	-126.5	
14:25	0.75	20.3	3.99	4.72	7.01	-79.4	
14:30	1.0	18.3	0.56	4.35	7.05	-109.9	
14:35	1.25	18.5	0.37	4.43	6.95	-122.4	
Sample @ 14:40		18.1	0.17	3.11	7.15	-162.9	

Total +/-1.25 Gallons Purged

Purge Time Start: 14:10 Purge Time End: 14:35

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-19

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 6/13/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 0.75 feet BTOC
Depth of Well: +/-12 feet One Well Volume: +/-0.5 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	Temp (°C)	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
11:00	0.05	22.8	0.51	3.30	7.97	102.1	
11:05	0.25	22.9	1.81	3.42	7.99	79.6	
11:10	0.5	22.2	1.91	3.41	8.01	54.0	
11:15	0.75	21.5	2.72	3.41	7.98	-17.0	
11:20	1.0	21.0	1.25	3.41	7.95	-14.9	
11:25	1.25	20.6	0.62	3.40	7.93	-7.9	
Sample @ 11:30	1.5	21.4	1.82	3.41	7.95	-17.5	

Total +/-1.5 Gallons Purged

Purge Time Start: 11:00 Purge Time End: 11:25

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-20

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 6/13/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 3.78 feet BTOC
Depth of Well: +/-12 feet One Well Volume: +/-0.3 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	Temp (°C)	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
11:45	0.05	18.2	0.65	4.70	6.64	-100.1	
11:50	0.25	18.8	0.93	5.32	6.55	-89.3	
11:55	0.5	18.9	0.22	6.60	6.51	-140.1	
12:00	0.75	18.3	0.15	3.43	6.71	-205.2	
12:05	1.0	18.1	0.12	2.58	6.88	-242.5	
12:10	1.25	17.6	0.08	2.35	6.95	-262.9	
12:15	1.5	18.1	0.09	2.34	6.96	-239.5	
Sample @ 12:20		18.0	0.14	2.39	6.95	-242.6	

Total +/-1.5 Gallons Purged

Purge Time Start: 11:45 Purge Time End: 12:15

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

GROUNDWATER COLLECTION AND SAMPLE LOG

WELL I.D.: MW-21

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 6/13/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 3.34 feet BTOC
Depth of Well: +/-23 feet One Well Volume: +/-0.8 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	Temp (°C)	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
15:30	0.05	16.7	0.82	2.57	6.90	-193.0	
15:35	0.25	16.8	0.26	2.61	6.97	-255.5	
15:40	0.5	16.7	0.26	2.58	6.97	-257.7	
15:45	0.75	16.3	0.18	2.48	7.01	-258.4	
15:50	1.0	16.1	0.16	2.45	7.01	-239.7	
Sample @ 15:55		16.3	0.16	2.42	7.01	-262.0	

Total +/-1 Gallons Purged

Purge Time Start: 15:30 Purge Time End: 15:50

OBSERVATIONS

Notes:

Purge water slightly turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-22

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 6/13/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 3.39 feet BTOC
Depth of Well: +/-12 feet One Well Volume: +/-0.4 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	Temp (°C)	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
16:05	0.05	21.0	3.61	5.76	6.59	-48.6	
16:10	0.25	18.3	2.51	5.21	6.76	-121.7	
16:15	0.5	17.3	0.32	2.05	6.97	-241.5	
16:20	0.75	17.2	0.96	1.31	7.15	-220.8	
16:25	1.0	17.1	1.05	1.36	7.13	-196.8	
Sample @ 16:30		17.1	1.12	1.41	7.12	-177.0	

Total +/-1 Gallons Purged

Purge Time Start: 16:05 Purge Time End: 16:25

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-23

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 6/13/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 8.08 feet BTOC
Depth of Well: +/-15 feet One Well Volume: +/-0.3 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	Temp (°C)	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
17:05	0.05	15.8	5.99	0.97	7.28	36.4	
17:10	0.25	14.3	2.25	0.89	7.24	-65.3	
17:15	0.5	14.3	2.42	0.86	7.25	-141.8	
17:20	0.75	14.2	2.31	0.77	7.28	-66.1	
17:25	1.0	14.4	1.71	0.71	7.30	-78.5	
Sample @ 17:30		14.4	1.76	0.71	7.31	-81.5	

Total +/-1 Gallons Purged

Purge Time Start: 17:05 Purge Time End: 17:25

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry



GROUNDWATER COLLECTION AND SAMPLE LOG

300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-24

Project Name: 3750 Monroe Avenue
Location: 3750 Monroe Avenue, Town of Pittsford, Monroe County, New York
Project No.: 212440
Sampled By: K R Miller
Date: 6/13/2012

PURGE VOLUME CALCULATION

Well Diameter: 1 inch Static Water Level: 8.02 feet BTOC
Depth of Well: +/-15 feet One Well Volume: +/-0.3 gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type: NA ☒ Pump – Type: Geotech Geopump II Peristaltic
Sampling Device: NA Pump Rate: +/-0.05 gallons/minute

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	Temp (°C)	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Comments
17:35	0.05	16.2	2.78	0.95	7.37	13.1	
17:40	0.25	18.0	0.32	0.63	7.22	-117.1	
17:45	0.5	17.7	0.23	0.67	7.21	-136.2	
17:50	0.75	17.7	0.12	0.61	7.21	-130.5	
17:55	1.0	17.5	0.07	0.51	7.17	-110.2	
Sample @ 18:00		16.4	0.39	0.61	7.14	-113.2	

Total +/-1 Gallons Purged

Purge Time Start: 17:35 Purge Time End: 17:55

OBSERVATIONS

Notes:

Purge water quite turbid with silt and fine sand.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry

ATTACHMENT D – Laboratory Analytical Reports

Report Date:
29-Jun-12 13:27



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

LaBella Associates
300 State Street, Suite 201
Rochester, NY 14614

Work Order: L1326
Project : LaBella Stand By- 3750 Monroe Ave.
Project #: 212440

Attn: Dan Noll

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
L1326-03	GP-21 22-23.8	Soil	12-Jun-12 13:20	15-Jun-12 09:05
L1326-04	GP-23 0-2	Soil	12-Jun-12 15:00	15-Jun-12 09:05
L1326-06	GP-24 8-12	Soil	12-Jun-12 16:00	15-Jun-12 09:05

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 sample(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAP or USEPA CLP requirements have been met.

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
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1326

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
GP-21 22-23.8	L1326-03	SW8260_LOW_S				
GP-23 0-2	L1326-04				SW6010_S	SEE DATA
GP-23 0-2	L1326-04				SW7471	
GP-24 8-12	L1326-06	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	SEE DATA
GP-24 8-12	L1326-06			SW8082_S	SW7471	

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1326

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_LOW_S					
L1326-03A	SL	6/12/2012	6/15/2012	NA	6/18/2012
L1326-06A	SL	6/12/2012	6/15/2012	NA	6/18/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1326

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8270_S					
L1326-06B	SL	6/12/2012	6/15/2012	6/18/2012	6/18/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1326

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8081_S					
L1326-06B	SL	6/12/2012	6/15/2012	6/18/2012	6/18/2012
SW8082_S					
L1326-06B	SL	6/12/2012	6/15/2012	6/18/2012	6/18/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1326

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_LOW_S					
L1326-03A	SL	SW8260_LOW_S	NA	LOW	1
L1326-06A	SL	SW8260_LOW_S	NA	LOW	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1326

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8270_S					
L1326-06B	SL	SW8270_S	3550B	NA	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1326

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8081_S					
L1326-06B	SL	SW8081_S	3550B	Sulfur	1
SW8082_S					
L1326-06B	SL	SW8082_S	3550B	Acid/Sulfur	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1326

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_S				
L1326-04A	SL	SW6010_S	6/15/2012	6/19/2012
L1326-06B	SL	SW6010_S	6/15/2012	6/19/2012
L1326-06BDUP	SL	SW6010_S	6/15/2012	6/19/2012
L1326-06BMS	SL	SW6010_S	6/15/2012	6/19/2012
SW7471				
L1326-04A	SL	SW7471	6/15/2012	6/19/2012
L1326-06B	SL	SW7471	6/15/2012	6/19/2012
L1326-06BDUP	SL	SW7471	6/15/2012	6/19/2012
L1326-06BMS	SL	SW7471	6/15/2012	6/19/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1326

Client ID: LABELLA

Case:

HC Due: 06/29/12

Report Level: ASP-B

Project: LaBella Stand By

SDG:

Fax Due: 06/19/12

Special Program:

WO Name: LaBella Stand By- 3750 Monroe Ave.

Fax Report: ☒

EDD: ENVIROINSITE_1

Location: LABELLA_STANDBY_CONTRACT, 212440

PO: 212440

EQUIIS_4_NYSDEC

Comments: use this project for between 11-50 samples, no RUSH surcharge base on lab capacity, no charge for MS/MSD or a batch of 7 or more samples, no charge for TB. no hard copy

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1326-01A	GP-21 0.5	06/12/2012 13:00	06/15/2012	Soil	PMoist	/					
L1326-01A	GP-21 0.5	06/12/2012 13:00	06/15/2012	Soil	SW8260_LOW_S	/ 2CVE+special+STARS_VOC+TICs for Cat B	Y	Y		Y	R2
L1326-01A	GP-21 0.5	06/12/2012 13:00	06/15/2012	Soil	SW8260_MED_S	/ 2CVE+special+STARS_VOC+TICs for Cat B	Y	Y		Y	R2
L1326-02A	GP-21 10-12	06/12/2012 13:10	06/15/2012	Soil	PMoist	/	Y	Y			R2
L1326-02A	GP-21 10-12	06/12/2012 13:10	06/15/2012	Soil	SW8081_S	/	Y	Y			R2
L1326-02A	GP-21 10-12	06/12/2012 13:10	06/15/2012	Soil	SW8082_S	/	Y	Y			R2
L1326-02A	GP-21 10-12	06/12/2012 13:10	06/15/2012	Soil	SW8270_S	/ TCL+STARS+TICs	Y	Y		Y	R2
L1326-02B	GP-21 10-12	06/12/2012 13:10	06/15/2012	Soil	SW6010_S	/ TAL	Y	Y		Y	R2
L1326-02B	GP-21 10-12	06/12/2012 13:10	06/15/2012	Soil	SW7471	/ TAL	Y	Y			R2
L1326-02C	GP-21 10-12	06/12/2012 13:10	06/15/2012	Soil	SW8260_LOW_S	/ 2CVE+special+STARS_VOC+TICs for Cat B	Y	Y		Y	R2
L1326-02C	GP-21 10-12	06/12/2012 13:10	06/15/2012	Soil	SW8260_MED_S	/ 2CVE+special+STARS_VOC+TICs for Cat B	Y	Y		Y	R2
L1326-03A	GP-21 22-23.8	06/12/2012 13:20	06/15/2012	Soil	PMoist	/					VOA
L1326-03A	GP-21 22-23.8	06/12/2012 13:20	06/15/2012	Soil	SW8260_LOW_S	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1326-03A	GP-21 22-23.8	06/12/2012 13:20	06/15/2012	Soil	SW8260_MED_S	/ 2CVE+special+STARS_VOC+TICs for Cat B			Y	Y	VOA
L1326-04A	GP-23 0-2	06/12/2012 15:00	06/15/2012	Soil	PMoist	/					H1
L1326-04A	GP-23 0-2	06/12/2012 15:00	06/15/2012	Soil	SW6010_S	/ TAL				Y	H1
L1326-04A	GP-23 0-2	06/12/2012 15:00	06/15/2012	Soil	SW7471	/ TAL					H1
L1326-04A	GP-23 0-2	06/12/2012 15:00	06/15/2012	Soil	SW9012_S	/					H1
L1326-05A	GP-23 13-14	06/12/2012 15:15	06/15/2012	Soil	PMoist	/	Y	Y			R2

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

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1326

Client ID: LABELLA

Project: LaBella Stand By

WO Name: LaBella Stand By- 3750 Monroe Ave.

Location: LABELLA_STANDBY_CONTRACT, 212440

Case:

SDG:

PO: 212440

HC Due: 06/29/12

Fax Due: 06/19/12

Fax Report: ☒

Report Level: ASP-B

Special Program:

EDD: ENVIROINSITE_1

EQUIIS_4_NYSDEC

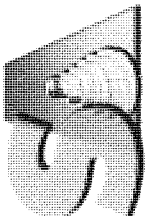
Comments: use this project for between 11-50 samples, no RUSH surcharge base on lab capacity, no charge for MS/MSD or a batch of 7 or more samples, no charge for TB. no hard copy

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1326-05A	GP-23 13-14	06/12/2012 15:15	06/15/2012	Soil	SW8260_LOW_S	/ 2CVE+special+STARS_VOC+TICs for Cat B		Y	Y	Y	R2
L1326-05A	GP-23 13-14	06/12/2012 15:15	06/15/2012	Soil	SW8260_MED_S	/ 2CVE+special+STARS_VOC+TICs for Cat B		Y	Y	Y	R2
L1326-06A	GP-24 8-12	06/12/2012 16:00	06/15/2012	Soil	SW8260_LOW_S	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1326-06A	GP-24 8-12	06/12/2012 16:00	06/15/2012	Soil	SW8260_MED_S	/ 2CVE+special+STARS_VOC+TICs for Cat B		Y		Y	VOA
L1326-06B	GP-24 8-12	06/12/2012 16:00	06/15/2012	Soil	PMoist	/					H1
L1326-06B	GP-24 8-12	06/12/2012 16:00	06/15/2012	Soil	SW6010_S	/ TAL			Y		H1
L1326-06B	GP-24 8-12	06/12/2012 16:00	06/15/2012	Soil	SW7471	/ TAL					H1
L1326-06B	GP-24 8-12	06/12/2012 16:00	06/15/2012	Soil	SW8081_S	/					H1
L1326-06B	GP-24 8-12	06/12/2012 16:00	06/15/2012	Soil	SW8082_S	/					H1
L1326-06B	GP-24 8-12	06/12/2012 16:00	06/15/2012	Soil	SW8270_S	/ TCL+STARS+TICs				Y	H1
L1326-06B	GP-24 8-12	06/12/2012 16:00	06/15/2012	Soil	SW9012_S	/					H1

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

HT = Test logged in but has been placed on hold

Sample Transmittal Documentation



SPECTRUM ANALYTICAL INC.
Featuring
HANIBAL TECHNOLOGY

PLEASE HOLD SOIL SAMPLES CHAIN OF CUSTODY RECORD

Special Handling:
☐ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: LaBella Assoc., P.C.

300 State St.

Rochester, NY

14614

Telephone #: (585) 454-6110

Project Mgr. Dan Neill

Invoice To: same

P.O. No.: _____ RQN: _____

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH

8=NaHSO₄ 9=Deionized Water 10= _____ 11= _____

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

Matrix Type

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

Containers:

Analyses:

List preservative code below:

QA/QC Reporting Notes:

* additional charges may apply

MA DEP MCP CAM Report: Yes ☐ No ☐

CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level

☐ Standard ☐ No QC ☐ DQA*

☐ NY ASP A* ☐ NY ASP B*

☐ NJ Reduced* ☐ NJ Full*

☐ TIER II* ☐ TIER V*

☒ Other ASP Cat B

State-specific reporting standards:

PID readings

PID readings

PID readings

PID readings

PID readings

* VOCs + 10 highest TICs

* * SVOCs + 20 highest TICs

Relinquished by:

Kyle Dan. Th

Redex

Received by:

Redex

6/14/12

6/15/12

7:05

3°C

Temp °C

Time:

Date:

Time:

Date:

Time:

Date:

Time:

Date:

EDD Format

☒ E-mail to

Redex@labellapc.com

☐ Ambient ☐ Load ☐ Refrigerated ☐ Fridge temp _____ °C

☐ Freezer temp _____ °C

Revised July 2010

www.spectrum-analytical.com

FAX 413-789-4076

413-789-9018

11 Almgren Drive • Agawam, MA 01001



SPECTRUM ANALYTICAL, INC.
HANBIL TECHNOLOGY,
Peapack

PLEASE HOLD SOIL SAMPLES CHAIN OF CUSTODY RECORD

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- ☐ All TATs subject to laboratory approval.
- ☐ Min. 24-hour notification needed for rushes.
- ☐ Samples disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: LaBella Assoc. P.C.
300 State St.
Peapack, NJ
14614
Telephone #: (505) 454-6110
Project Mgr. Dan Noll

Invoice To: Stank
P.O. No.: _____ RQN: _____

Project No.: 212440
Site Name: 3750 Monroe Ave
Location: Pittsford State: NY
Sampler(s): KC Miller

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9=Deionized Water 10= _____ 11= _____
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply
MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☐

Containers:

Analyses:

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DOA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☒ Other ASP Cat B
State-specific reporting standards:
PID readings
PID readings
PID readings
PID readings
PID readings
* VOCs + 10 highest TICS
** SVOCs + 20 highest TICS

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
01	GP-21 0.5	6/12/12	13:00	G	SO	1	4		
02	GP-21 10'-12'		13:10	I		1	1		
03	GP-21 22'-23.0'		13:20	I		1	1		
04	GP 23 0-2'		15:00	I		1	1		
05	GP 23 13'-14'		15:15	V		1	1		
06	GP 24 8'-12'		16:00	V		1	1		
Please hold all samples until further notice									
Relinquished by: <u>Kyle P.M.N.</u> Received by: <u>FED-EX</u> Date: <u>6/14/12</u> Time: <u>16:00</u>									
E-mail to: <u>Don@labella.com</u>									
Ambient ☐ Iced ☐ Refrigerated ☐ Fridge temp _____ °C Freezer temp _____ °C									

Received By: <u>SA/In</u>		Page 01 of 00	
Reviewed By: <u>VEB</u>		Log-in Date 06/15/2012	
Work Order: L1326		Client Name: LaBella Associates	
Project Name/Event: LaBella Stand By			
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.			

Lab Sample ID	Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
	HNO3	H2SO4	HCl	NaOH	H3PO4		
L1326-01							
L1326-02							
L1326-03						US	
L1326-04							
L1326-05							
L1326-06						US	

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 8000 2726 6501
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	3 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	06/15/2012
12. Time Received	21:05
Sample Transfer	
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On
IR Temp Gun ID: MT-1	
Coolant Condition: ICE	
Preservative Name/Lot No:	

VOA Matrix Key:

US = Unpreserved Soil A = Air

UA = Unpreserved Aqueous H = HCl

M = MeOH E = Encore

N = NaHSO4 F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Volatiles ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave.

Laboratory Workorder / SDG #: L1326

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: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

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:

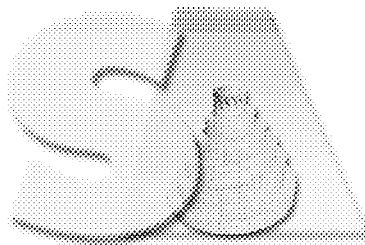
No other unusual occurrences were noted during sample analysis.

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.

A handwritten signature in black ink, appearing to be 'J. H. P.' or similar, written over a horizontal line.

Signed: _____

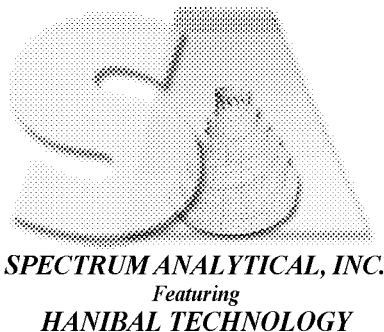
Date: _____ 6/28/2012 _____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-66800	99	96	98	105				0
02	MB-66800	100	107	93	103				0
03	GP-21 22-23.8	102	99	99	105				0
04	GP-24 8-12	105	98	97	105				0

VDMC1 (DBFM) Dibromofluoromethane
 VDMC2 (DCE) = 1,2-Dichloroethane-d4
 VDMC3 (TOL) = Toluene-d8
 VDMC4 (BFB) = Bromofluorobenzene

QC LIMITS
 (65-132)
 (65-128)
 (85-115)
 (77-111)

Column to be used to flag recovery values
 * Values outside of contract required QC limits

som111.10.27.A

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66800

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCS-66800 LCS Lot No.: _____
Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Chloromethane	50.0000	0.0000	49.2464	98		50 - 130
Vinyl chloride	50.0000	0.0000	48.6098	97		60 - 125
Bromomethane	50.0000	0.0000	46.9414	94		30 - 160
Chloroethane	50.0000	0.0000	53.9487	108		40 - 155
Trichlorofluoromethane	50.0000	0.0000	41.2533	83		25 - 185
1,1-Dichloroethene	50.0000	0.0000	55.0221	110		65 - 135
Acetone	50.0000	0.0000	65.0921	130		20 - 160
Carbon disulfide	50.0000	0.0000	49.2704	99		45 - 160
Methylene chloride	50.0000	0.0000	53.7514	108		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	50.2930	101		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	51.2555	103		75 - 126
1,1-Dichloroethane	50.0000	0.0000	51.4103	103		75 - 125
Vinyl acetate	50.0000	0.0000	51.6802	103		65 - 138
2-Butanone	50.0000	0.0000	50.9362	102		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	48.5400	97		65 - 125
Chloroform	50.0000	0.0000	53.3110	107		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	48.9511	98		70 - 135
Carbon tetrachloride	50.0000	0.0000	48.2518	97		65 - 135
1,2-Dichloroethane	50.0000	0.0000	51.7499	103		70 - 135
Benzene	50.0000	0.0000	51.4189	103		75 - 125
Trichloroethene	50.0000	0.0000	47.7108	95		75 - 125
1,2-Dichloropropane	50.0000	0.0000	52.8607	106		70 - 120
Bromodichloromethane	50.0000	0.0000	51.1974	102		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	51.4263	103		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	51.3810	103		45 - 145
Toluene	50.0000	0.0000	49.8640	100		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	52.1475	104		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	52.7318	105		60 - 125
Tetrachloroethene	50.0000	0.0000	41.6962	83		65 - 140
2-Hexanone	50.0000	0.0000	51.1663	102		45 - 145
Dibromochloromethane	50.0000	0.0000	46.8796	94		65 - 130
Chlorobenzene	50.0000	0.0000	47.0199	94		75 - 125
Ethylbenzene	50.0000	0.0000	47.4735	95		75 - 125
m,p-Xylene	100.0000	0.0000	94.5425	95		80 - 125
o-Xylene	50.0000	0.0000	46.3447	93		75 - 125
Xylene (Total)	150.0000	0.0000	140.8872	94		83 - 125
Styrene	50.0000	0.0000	47.0882	94		75 - 125
Bromoform	50.0000	0.0000	41.6458	83		55 - 135
Isopropylbenzene	50.0000	0.0000	45.4662	91		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	47.7701	96		55 - 130
n-Propylbenzene	50.0000	0.0000	47.4803	95		65 - 135
1,3,5-Trimethylbenzene	50.0000	0.0000	48.1854	96		65 - 135
tert-Butylbenzene	50.0000	0.0000	46.8076	94		65 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	47.9371	96		65 - 135

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66800

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCS-66800 LCS Lot No.: _____
Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
sec-Butylbenzene	50.0000	0.0000	47.8600	96		65 - 130
4-Isopropyltoluene	50.0000	0.0000	47.4385	95		75 - 135
1,3-Dichlorobenzene	50.0000	0.0000	44.6837	89		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	44.7408	89		70 - 125
n-Butylbenzene	50.0000	0.0000	48.7078	97		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	45.5276	91		75 - 120
Naphthalene	50.0000	0.0000	46.1985	92		40 - 125
2-Chloroethyl vinyl ether	50.0000	0.0000	48.1212	96		70 - 130

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

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66800

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab File ID: V1M7418.D Lab Sample ID: MB-66800
Instrument ID: V1
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/18/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 14:31
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-66800	LCS-66800	V1M7415.D	13:08
02	GP-21 22-23.8	L1326-03A	V1M7419.D	14:59
03	GP-24 8-12	L1326-06A	V1M7427.D	18:42

COMMENTS: _____

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

EPA SAMPLE NO.

BFB1P

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab File ID: V1M7353.D BFB Injection Date: 06/14/2012
Instrument ID: V1 BFB Injection Time: 13:24
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 80.0% of mass 95	45.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120% of mass 95	122.2
175	5.0 - 9.0% of mass 174	9.2 (7.5)1
176	95.0 - 101% of mass 174	118.6 (97.0)1
177	5.0 - 9.0% of mass 176	7.5 (6.3)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	VSTD0051P	VSTD0051P	V1M7354.D	06/14/2012	13:51
02	VSTD2001P	VSTD2001P	V1M7356.D	06/14/2012	14:47
03	VSTD1001P	VSTD1001P	V1M7357.D	06/14/2012	15:15
04	VSTD0501P	VSTD0501P	V1M7358.D	06/14/2012	15:42
05	VSTD0201P	VSTD0201P	V1M7359.D	06/14/2012	16:10

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

EPA SAMPLE NO.

BFB1R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab File ID: V1M7413.D BFB Injection Date: 06/18/2012
Instrument ID: V1 BFB Injection Time: 11:40
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	42.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	97.9
175	5.0 - 9.0% of mass 174	7.7 (7.8)1
176	95.0 - 101.0% of mass 174	91.1 (93.0)1
177	5.0 - 9.0% of mass 176	6.7 (7.4)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	VSTD0501R	VSTD0501R	V1M7414.D	06/18/2012	12:40
02	LCS-66800	LCS-66800	V1M7415.D	06/18/2012	13:08
03	MB-66800	MB-66800	V1M7418.D	06/18/2012	14:31
04	GP-21 22-23.8	L1326-03A	V1M7419.D	06/18/2012	14:59
05	GP-24 8-12	L1326-06A	V1M7427.D	06/18/2012	18:42

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 06/14/2012 06/14/2012
 EPA Sample No.(VSTD#####): VSTD0501R Date Analyzed: 06/18/2012
 Lab File ID (Standard): V1M7414.D Time Analyzed: 12:40
 Instrument ID: V1 Heated Purge: (Y/N) Y

	IS1 (S1)	AREA	#	RT	#	IS2 (S2)	AREA	#	RT	#	IS3 (S3)	AREA	#	RT	#
12 HOUR STD	2021645			6.346		1854594			10.028		1099930			12.874	
UPPER LIMIT	4043290			6.846		3709188			10.528		2199860			13.374	
LOWER LIMIT	1010823			5.846		927297			9.528		549965			12.374	
EPA SAMPLE NO.															
01 LCS-66800	1862534			6.351		1733775			10.024		1033195			12.879	
02 MB-66800	1620576			6.336		1537005			10.029		996442			12.874	
03 GP-21 22-23.8	1642857			6.347		1456981			10.029		852068			12.875	
04 GP-24 8-12	1543250			6.351		1420348			10.033		934964			12.879	

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.
GP-21 22-23.8

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1326	Mod. Ref No.: SDG No.: SL1326
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1326-03A
Sample wt/vol: 5.10 (g/mL) G	Lab File ID: V1M7419.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec. 12	Date Analyzed: 06/18/2012
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
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	J
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U
156-59-2	cis-1,2-Dichloroethene	38	
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	76	
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GP-21 22-23.8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1326-03A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M7419.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. 12 Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
99-87-6	4-Isopropyltoluene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U
110-75-8	2-Chloroethyl vinyl ether	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-21 22-23.8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1326-03A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M7419.D

Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. 12 Date Analyzed: 06/18/2012

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

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

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

Data File: \\avogadro\organics\V1.I\120618.B\V1M7419.D
Report Date: 19-Jun-2012 12:25

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
Data file : \\avogadro\organics\V1.I\120618.B\V1M7419.D
Lab Smp Id: L1326-03A Client Smp ID: GP-21 22-23.8
Inj Date : 18-JUN-2012 14:59
Operator : V1 SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,L1326-03A,,66800
Misc Info :
Comment :
Method : \\avogadro\organics\V1.I\120618.B\v18260GH.m
Meth Date : 19-Jun-2012 12:22 adatta Quant Type: ISTD
Cal Date : 14-JUN-2012 14:47 Cal File: V1M7356.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2CVE_Labella.sub
Target Version: 4.14
Processing Host: TARGET105

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 5 / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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

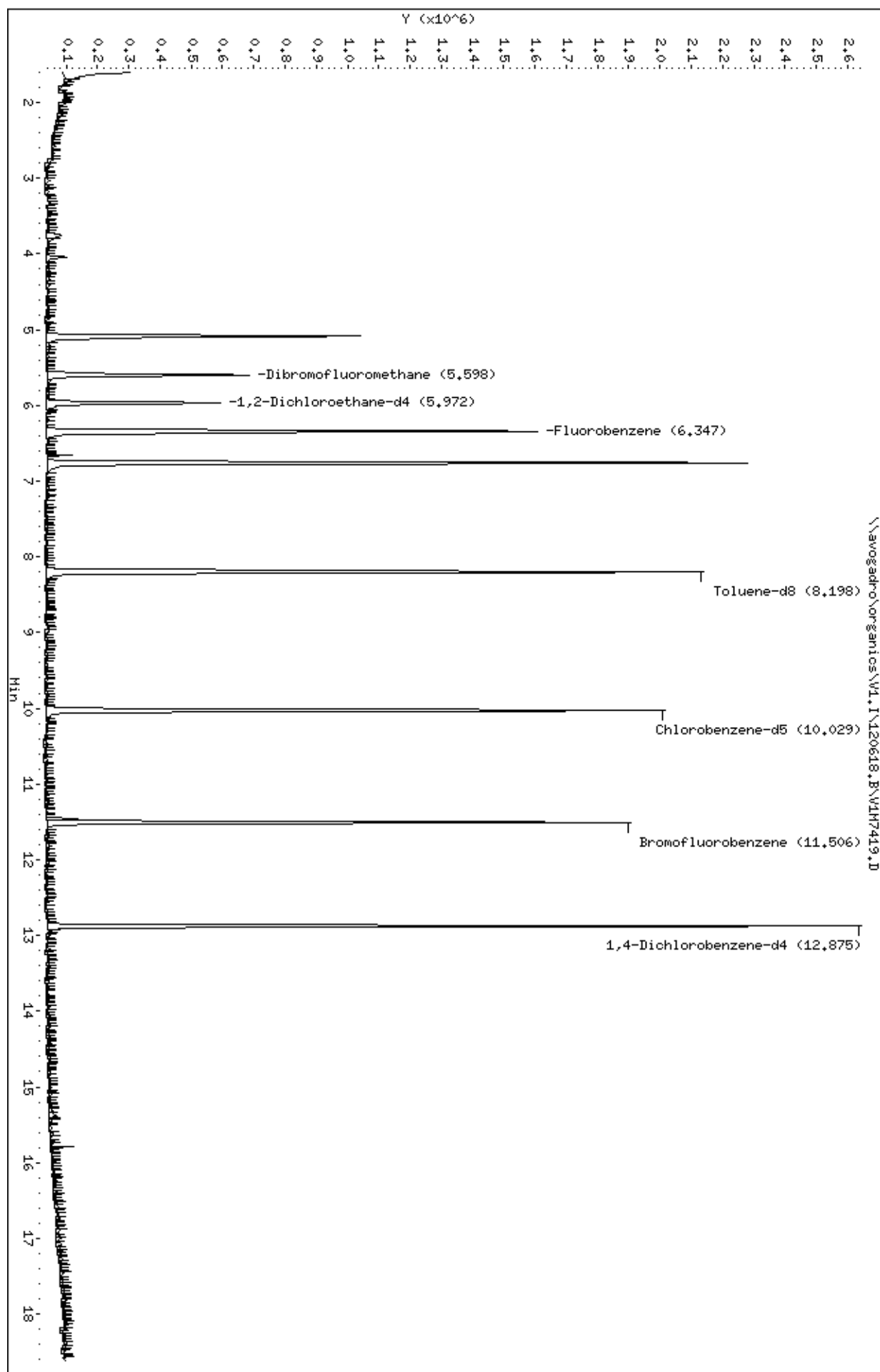
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/Kg)
19 trans-1,2-Dichloroethene	96	4.042	4.052	(0.637)	24059	2.23508	2(a)
25 cis-1,2-Dichloroethene	96	5.086	5.096	(0.801)	464352	34.1864	34
\$ 32 Dibromofluoromethane	113	5.598	5.598	(0.882)	460517	50.7687	50
\$ 37 1,2-Dichloroethane-d4	102	5.972	5.972	(0.941)	90820	49.3845	48
* 41 Fluorobenzene	96	6.346	6.346	(1.000)	1642857	50.0000	
42 Trichloroethene	130	6.760	6.770	(1.065)	994224	68.5853	67
\$ 51 Toluene-d8	98	8.197	8.197	(0.817)	1671761	49.2831	48
* 60 Chlorobenzene-d5	117	10.029	10.019	(1.000)	1456981	50.0000	
\$ 70 Bromofluorobenzene	95	11.505	11.506	(1.147)	670220	52.4188	51
* 84 1,4-Dichlorobenzene-d4	152	12.874	12.874	(1.000)	852068	50.0000	

QC Flag Legend

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

Data File: \\avogadro\organics\VL1\120618.B\VLH7419.D
Date : 18-JUN-2012 14:59
Client ID: GP-21 22-23.8
Sample Info: 5HL1326-03H,66800
Column phase: DB-624

Instrument: VL.i
Operator: VL SRC: LIMS
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\120618.B\V1M7419.D

Date : 18-JUN-2012 14:59

Client ID: GP-21 22-23,8

Instrument: V1.i

Sample Info: 5HL, L1326-03A,,66800

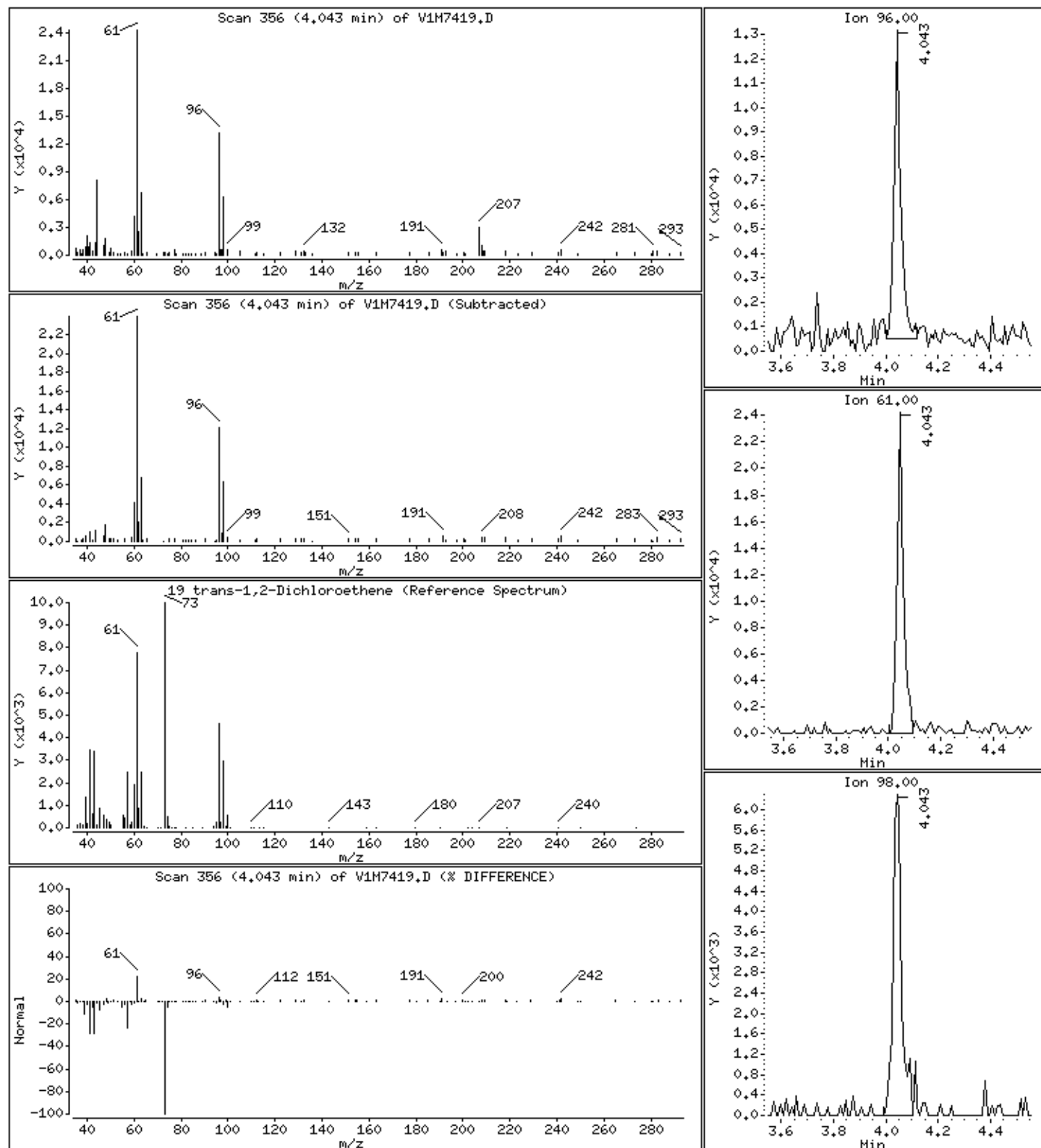
Operator: V1 SRC: LIMS

Column phase: DB-624

Column diameter: 0.25

19 trans-1,2-Dichloroethene

Concentration: 2 ug/Kg



Data File: \\avogadro\organics\V1.I\120618.B\V1M7419.D

Date : 18-JUN-2012 14:59

Client ID: GP-21 22-23.8

Instrument: V1.i

Sample Info: 5HL, L1326-03A,, 66800

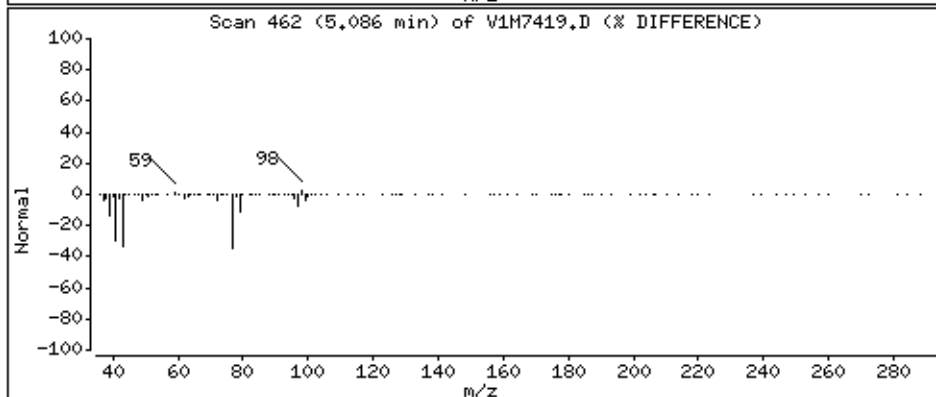
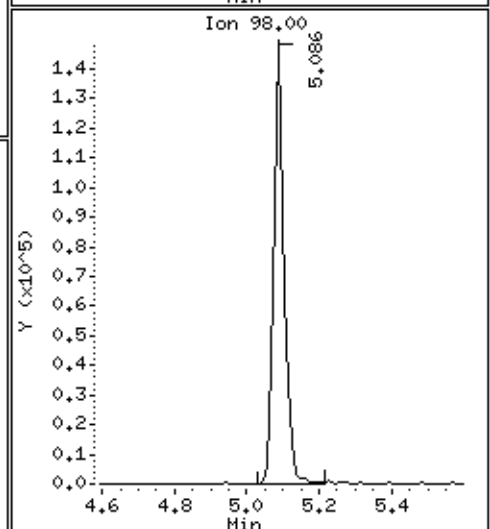
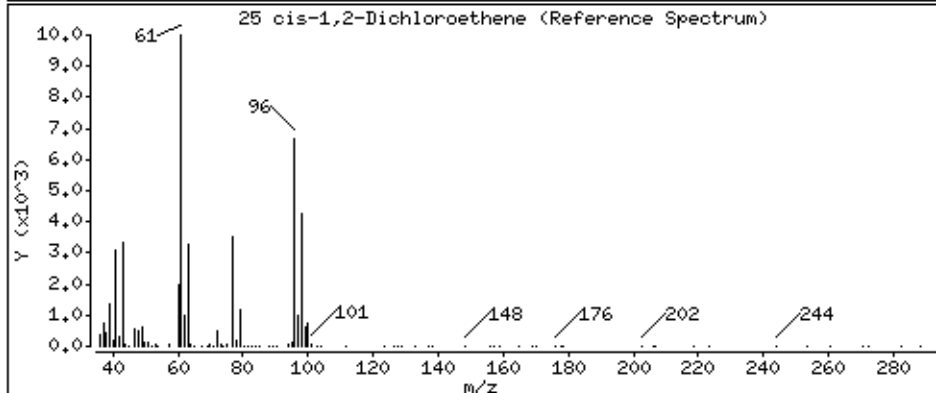
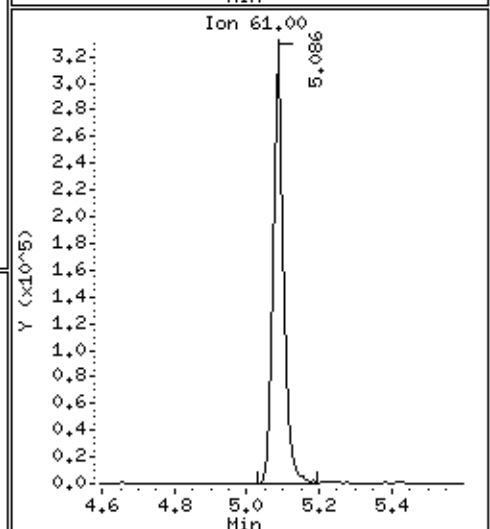
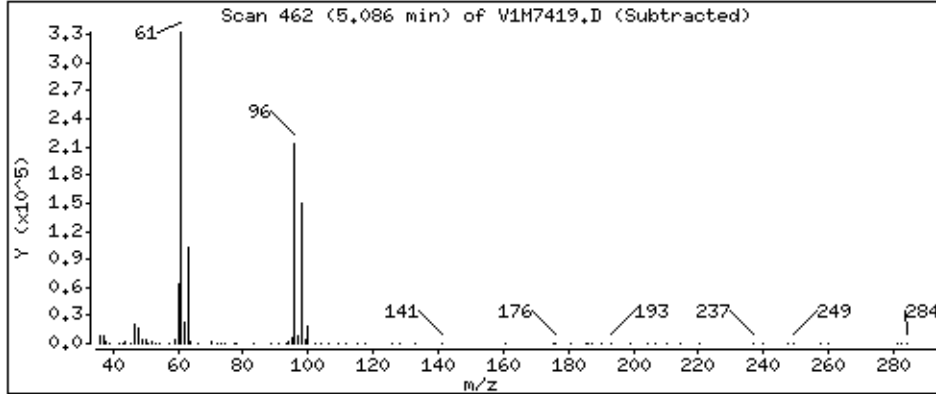
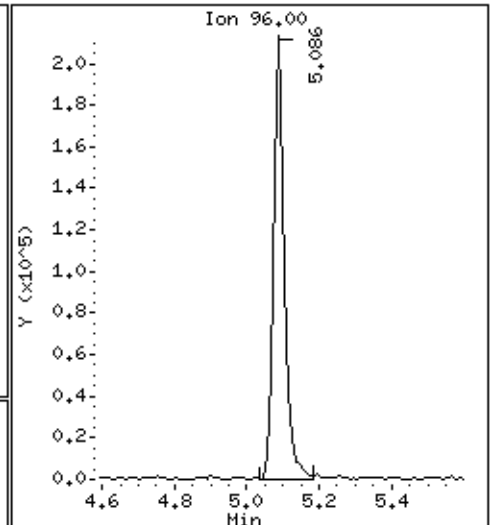
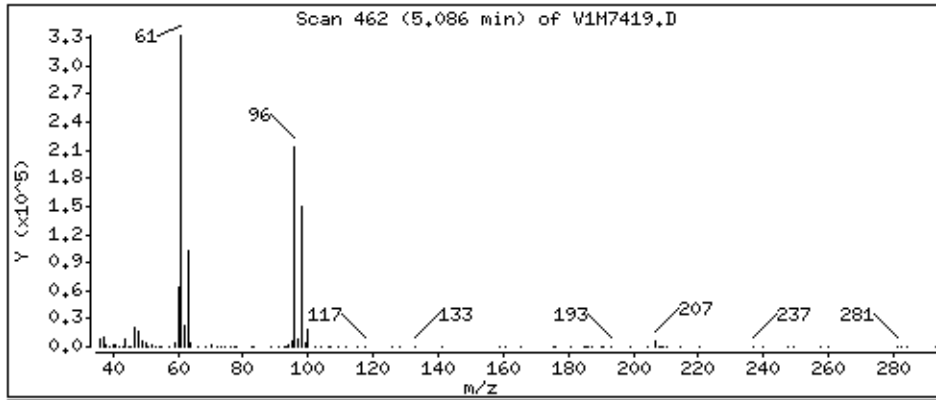
Operator: V1 SRC: LIMS

Column phase: DB-624

Column diameter: 0.25

25 cis-1,2-Dichloroethene

Concentration: 34 ug/Kg



Data File: \\avogadro\organics\V1.I\120618.B\V1M7419.D

Date : 18-JUN-2012 14:59

Client ID: GP-21 22-23.8

Instrument: V1.i

Sample Info: 5HL, L1326-03A,, 66800

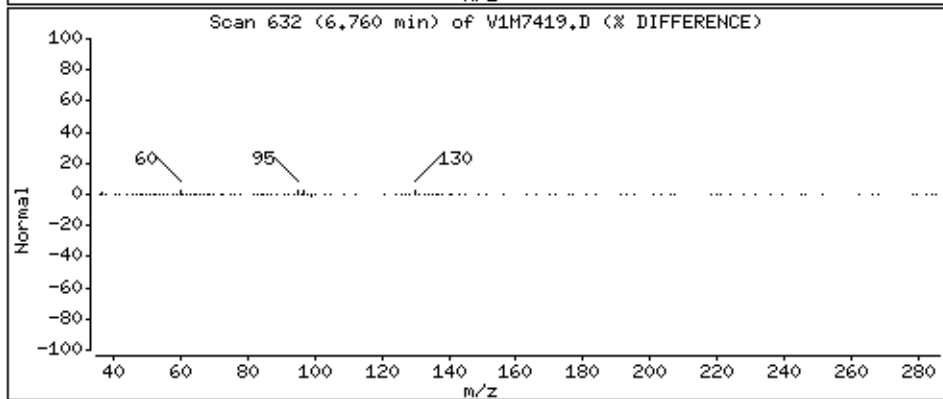
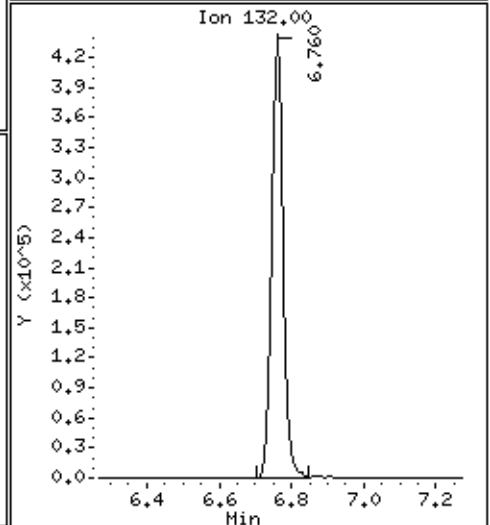
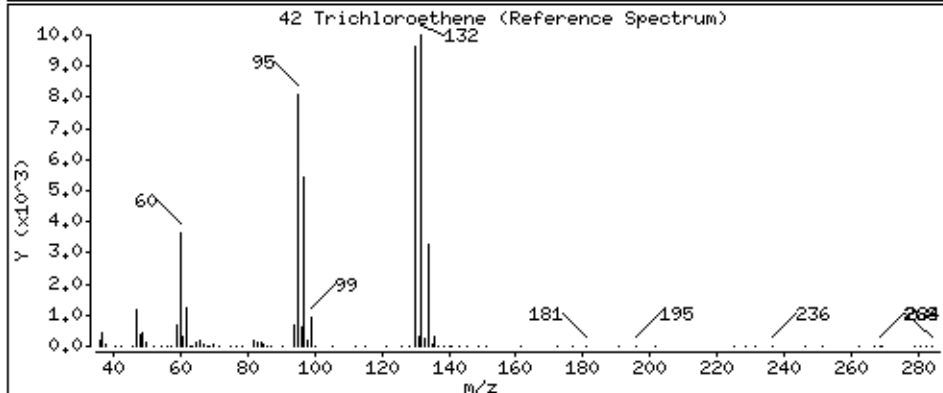
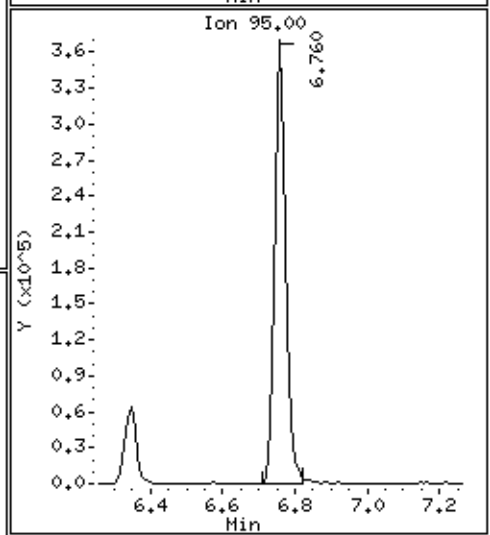
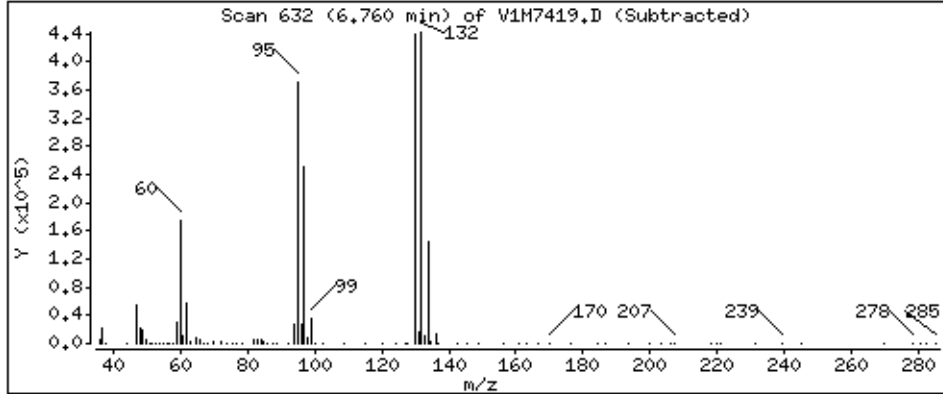
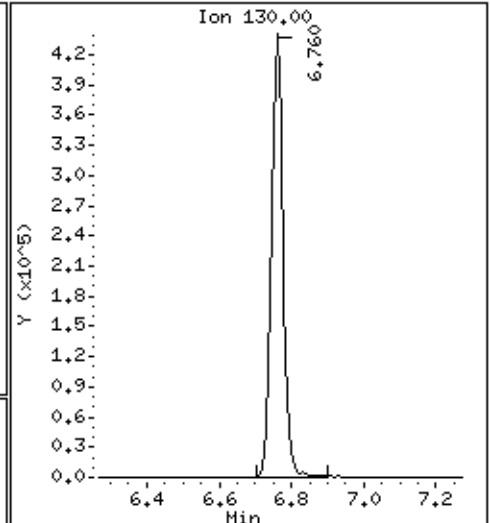
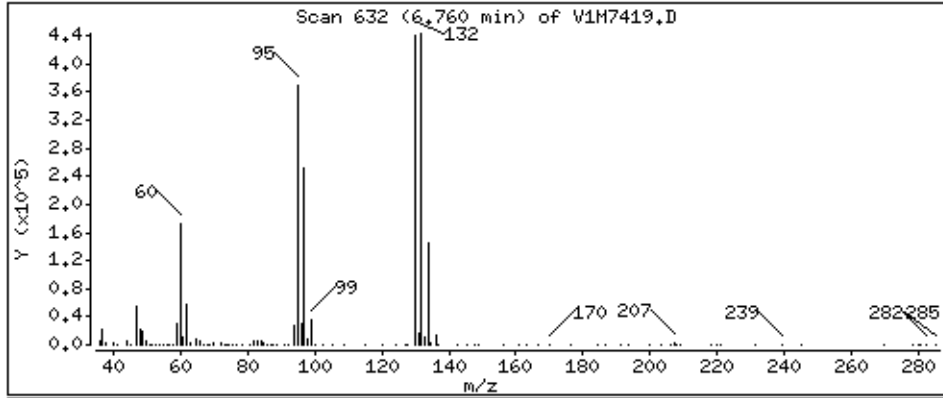
Operator: V1 SRC: LIMS

Column phase: DB-624

Column diameter: 0.25

42 Trichloroethene

Concentration: 67 ug/Kg



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GP-24 8-12

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1326	Mod. Ref No.: _____ SDG No.: SL1326
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1326-06A
Sample wt/vol: 3.00 (g/mL) G	Lab File ID: V1M7427.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec. 18	Date Analyzed: 06/18/2012
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
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	2.9	J
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	100	
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
179601-23-1	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GP-24 8-12

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1326	Mod. Ref No.: _____ SDG No.: SL1326
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1326-06A
Sample wt/vol: 3.00 (g/mL) G	Lab File ID: V1M7427.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec. 18	Date Analyzed: 06/18/2012
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
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
104-51-8	n-Butylbenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
91-20-3	Naphthalene	10	U
110-75-8	2-Chloroethyl vinyl ether	10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-24 8-12

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1326-06A

Sample wt/vol: 3.00 (g/mL) G Lab File ID: V1M7427.D

Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. 18 Date Analyzed: 06/18/2012

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

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

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
 Data file : \\avogadro\organics\V1.I\120618.B\V1M7427.D
 Lab Smp Id: L1326-06A Client Smp ID: GP-24 8-12
 Inj Date : 18-JUN-2012 18:42
 Operator : V1 SRC: LIMS Inst ID: V1.i
 Smp Info : 5ML,L1326-06A,,66800
 Misc Info :
 Comment :
 Method : \\avogadro\organics\V1.I\120618.B\v18260GH.m
 Meth Date : 19-Jun-2012 12:22 adatta Quant Type: ISTD
 Cal Date : 14-JUN-2012 14:47 Cal File: V1M7356.D
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2CVE_Labella.sub
 Target Version: 4.14
 Processing Host: TARGET105

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 5 / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	3.000	Weight of sample (g)
M	0.00000	% Moisture (not decanted)
Va	100.000	Aliquot of methanol (uL)
Cpnd Variable		Local Compound Variable

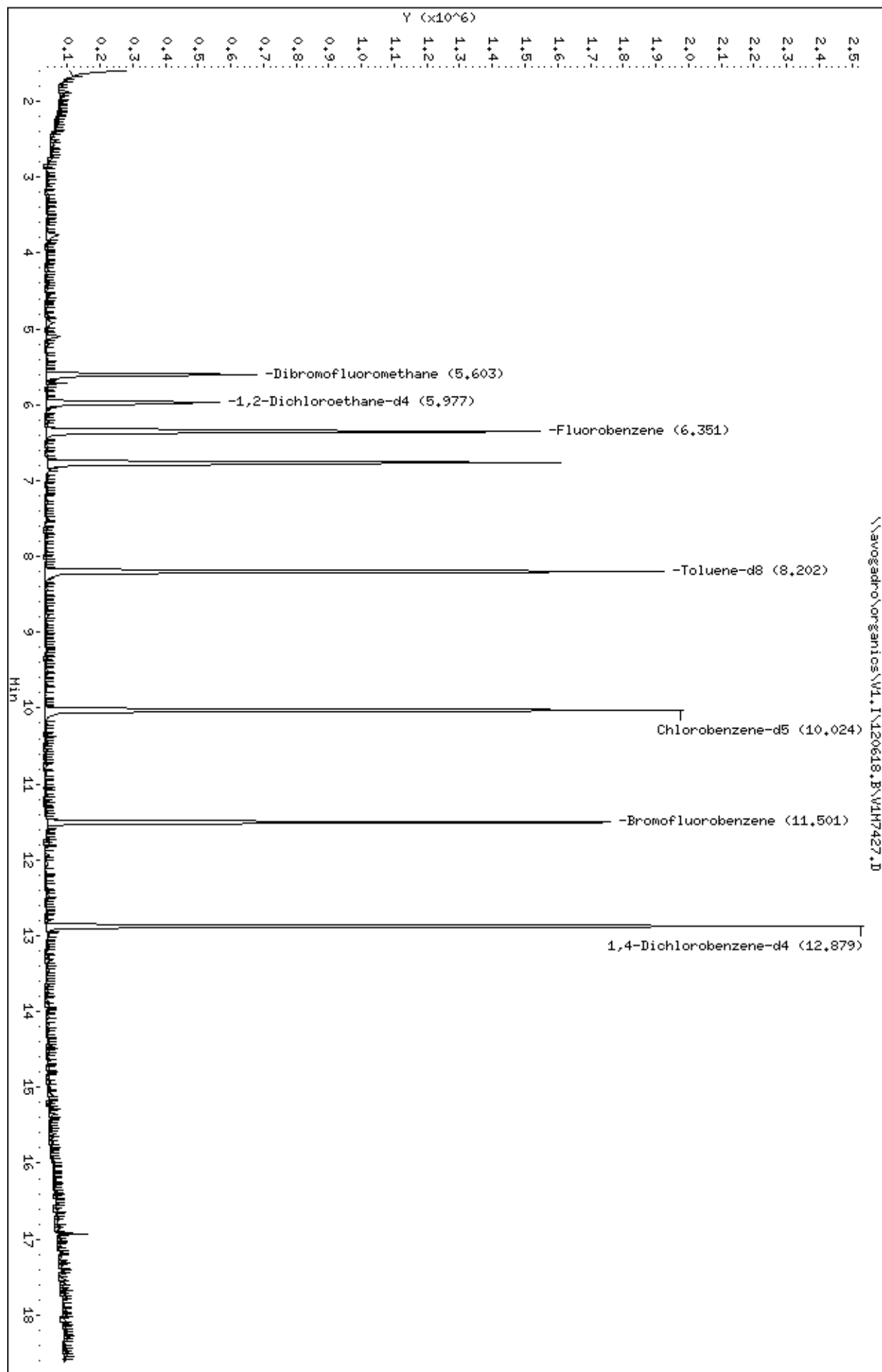
Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
25 cis-1,2-Dichloroethene	96		5.100	5.096	(0.803)		18258	1.43094	2(a)
\$ 32 Dibromofluoromethane	113		5.602	5.598	(0.882)		446541	52.4053	87
\$ 37 1,2-Dichloroethane-d4	102		5.976	5.972	(0.941)		85036	49.2238	82
* 41 Fluorobenzene	96		6.351	6.346	(1.000)		1543250	50.0000	
42 Trichloroethene	130		6.764	6.770	(1.065)		670777	49.2593	82
\$ 51 Toluene-d8	98		8.202	8.197	(0.817)		1600031	48.3851	81
* 60 Chlorobenzene-d5	117		10.033	10.019	(1.000)		1420348	50.0000	
\$ 70 Bromofluorobenzene	95		11.500	11.506	(1.146)		653358	52.4180	87
* 84 1,4-Dichlorobenzene-d4	152		12.878	12.874	(1.000)		934964	50.0000	

QC Flag Legend

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

Data File: \\avogadro\organics\VL1\120618.B\VLH7427.D
 Date : 18-JUN-2012 18:42
 Client ID: GP-24 8-12
 Sample Info: 5HL, L1326-06H, 66800
 Column phase: DB-624

Instrument: VL.i
 Operator: VL SRC: LIMS
 Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\120618.B\V1M7427.D

Date : 18-JUN-2012 18:42

Client ID: GP-24 8-12

Instrument: V1.i

Sample Info: 5HL, L1326-06A,,66800

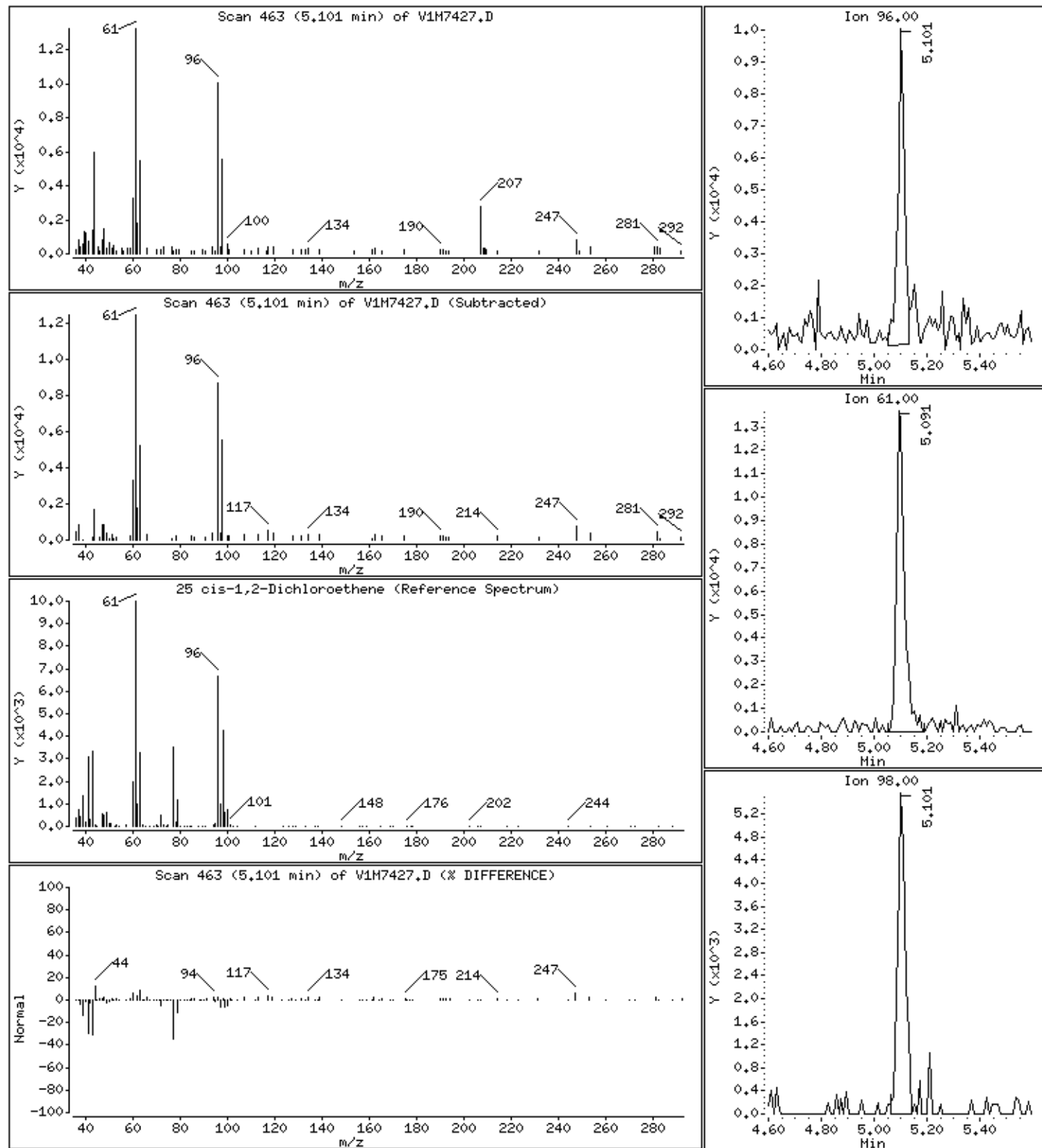
Operator: V1 SRC: LIMS

Column phase: DB-624

Column diameter: 0.25

25 cis-1,2-Dichloroethene

Concentration: 2 ug/Kg



Data File: \\avogadro\organics\V1.I\120618.B\V1M7427.D

Date : 18-JUN-2012 18:42

Client ID: GP-24 8-12

Instrument: V1.i

Sample Info: 5HL, L1326-06A,, 66800

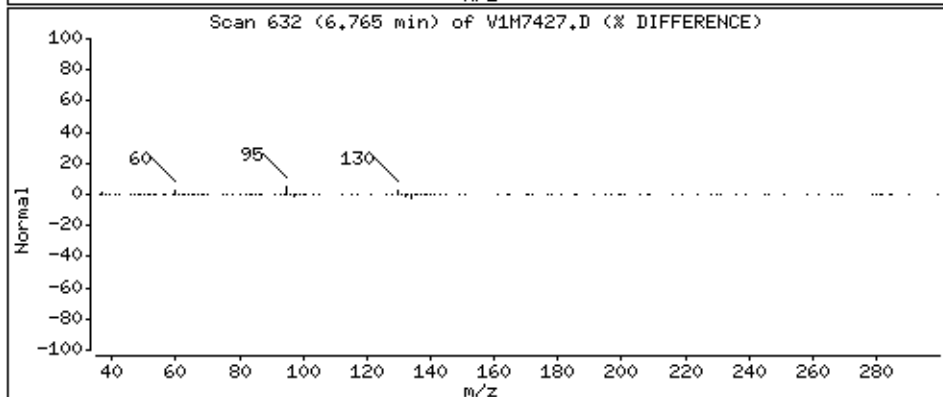
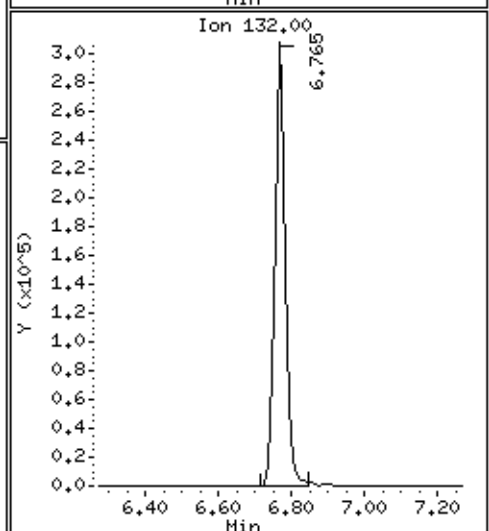
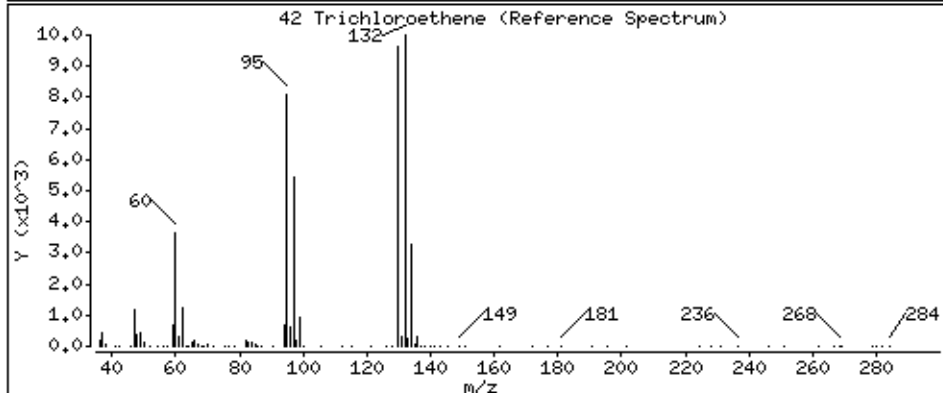
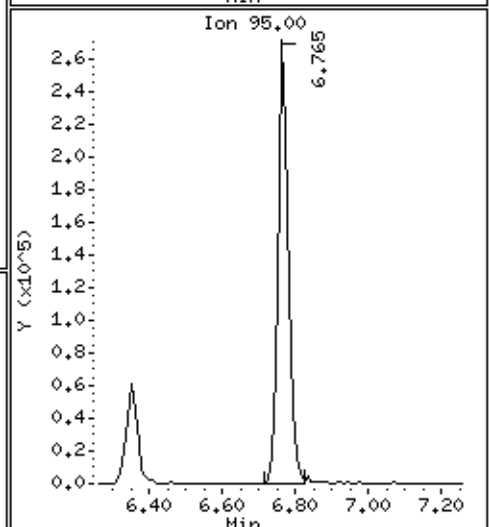
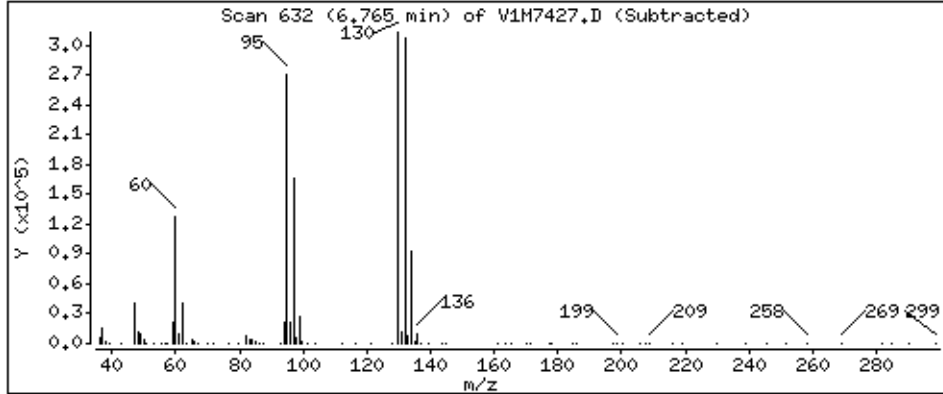
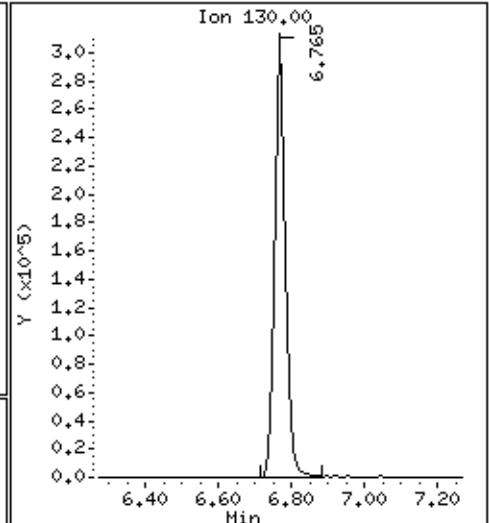
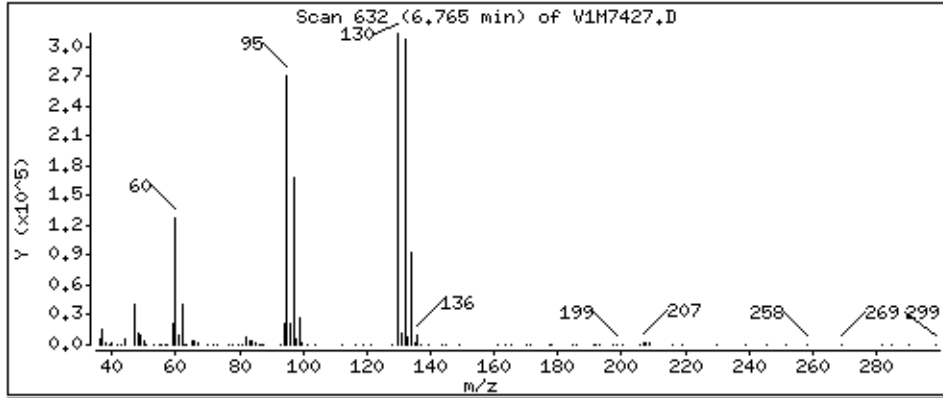
Operator: V1 SRC: LIMS

Column phase: DB-624

Column diameter: 0.25

42 Trichloroethene

Concentration: 82 ug/Kg



6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Instrument ID: V1 Calibration Date(s): 06/14/2012 06/14/2012

Heated Purge: (Y/N) Y Calibration Time(s): 13:51 16:10

Purge Volume: 5.0 (mL)

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

LAB FILE ID: _____	RRF005 =	V1M7354.D	RRF020 =	V1M7359.D			
RRF050 =	V1M7358.D	RRF100 =	V1M7357.D	RRF200 =	V1M7356.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Chloromethane	0.518	0.426	0.434	0.432	0.441	0.450	8.5
Vinyl chloride	0.268	0.247	0.244	0.246	0.253	0.252	4.0
Bromomethane	0.144	0.120	0.113	0.110	0.108	0.119	12.4
Chloroethane	0.055	0.066	0.097	0.097	0.093	0.082	24.3
Trichlorofluoromethane	0.115	0.085	0.124	0.130	0.122	0.115	15.5
1,1-Dichloroethene	0.161	0.216	0.238	0.227	0.214	0.211	14.0
Acetone	0.042	0.031	0.030	0.026	0.026	0.031	21.5
Carbon disulfide	1.275	1.069	1.007	0.998	0.913	1.052	13.0
Methylene chloride	0.612	0.405	0.355	0.347	0.339	0.412	27.9
trans-1,2-Dichloroethene	0.395	0.332	0.309	0.308	0.294	0.328	12.2
Methyl tert-butyl ether	1.152	1.016	0.961	0.964	0.921	1.003	9.0
1,1-Dichloroethane	0.825	0.697	0.655	0.666	0.660	0.701	10.2
Vinyl acetate	2.443	2.043	1.997	1.953	1.879	2.063	10.7
2-Butanone	0.048	0.043	0.040	0.039	0.041	0.042	8.5
cis-1,2-Dichloroethene	0.500	0.418	0.395	0.382	0.373	0.413	12.4
Chloroform	0.667	0.620	0.594	0.589	0.573	0.609	6.0
1,1,1-Trichloroethane	0.483	0.355	0.351	0.352	0.322	0.372	16.9
Carbon tetrachloride	0.388	0.338	0.338	0.337	0.307	0.342	8.5
1,2-Dichloroethane	0.575	0.492	0.468	0.455	0.449	0.488	10.6
Benzene	1.691	1.506	1.444	1.387	1.295	1.464	10.1
Trichloroethene	0.539	0.443	0.431	0.412	0.382	0.441	13.4
1,2-Dichloropropane	0.510	0.402	0.407	0.407	0.392	0.424	11.5
Bromodichloromethane	0.596	0.498	0.461	0.477	0.458	0.498	11.4
cis-1,3-Dichloropropene	0.781	0.659	0.633	0.647	0.646	0.673	9.0
4-Methyl-2-pentanone	0.640	0.528	0.553	0.537	0.536	0.559	8.3
Toluene	1.758	1.478	1.452	1.393	1.258	1.468	12.5
trans-1,3-Dichloropropene	0.641	0.548	0.558	0.550	0.551	0.569	7.1
1,1,2-Trichloroethane	0.384	0.324	0.304	0.317	0.305	0.327	10.1
Tetrachloroethene	0.605	0.471	0.481	0.475	0.377	0.482	16.9
2-Hexanone	0.432	0.436	0.433	0.435	0.406	0.428	3.0
Dibromochloromethane	0.581	0.519	0.515	0.509	0.472	0.519	7.6
Chlorobenzene	1.439	1.207	1.160	1.131	0.981	1.184	14.0
Ethylbenzene	0.693	0.571	0.562	0.573	0.468	0.573	14.0
m,p-Xylene	0.876	0.731	0.711	0.689	0.555	0.712	16.1
o-Xylene	0.937	0.710	0.706	0.708	0.581	0.728	17.7
Xylene (Total)	0.896	0.724	0.709	0.695	0.563	0.718	16.5
Styrene	1.511	1.276	1.223	1.184	0.992	1.237	15.1
Bromoform	0.477	0.408	0.393	0.390	0.366	0.407	10.4
Isopropylbenzene	2.107	1.765	1.679	1.728	1.310	1.718	16.5

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Instrument ID: V1 Calibration Date(s): 06/14/2012 06/14/2012

Heated Purge: (Y/N) Y Calibration Time(s): 13:51 16:10

Purge Volume: 5.0 (mL)

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

LAB FILE ID: _____		RRF005 =	V1M7354.D		RRF020 =	V1M7359.D				
RRF050 =		V1M7358.D		RRF100 =	V1M7357.D		RRF200 =	V1M7356.D		
COMPOUND				RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
1,1,2,2-Tetrachloroethane				1.060	0.915	0.896	0.877	0.842	0.918	9.1
n-Propylbenzene				0.881	0.795	0.818	0.824	0.663	0.796	10.2
1,3,5-Trimethylbenzene				2.692	2.332	2.292	2.340	1.785	2.288	14.2
tert-Butylbenzene				3.068	2.645	2.448	2.508	1.988	2.531	15.4
1,2,4-Trimethylbenzene				2.818	2.367	2.304	2.329	1.819	2.327	15.2
sec-Butylbenzene				3.787	3.176	3.031	3.152	2.316	3.092	16.9
4-Isopropyltoluene				2.967	2.694	2.647	2.654	1.951	2.583	14.6
1,3-Dichlorobenzene				2.114	1.890	1.787	1.808	1.460	1.812	13.0
1,4-Dichlorobenzene				2.307	1.888	1.782	1.729	1.423	1.826	17.5
n-Butylbenzene				2.701	2.418	2.360	2.453	1.788	2.344	14.4
1,2-Dichlorobenzene				2.094	1.784	1.679	1.686	1.386	1.726	14.7
Naphthalene				2.834	2.583	2.476	2.487	2.045	2.485	11.5
2-Chloroethyl vinyl ether				0.141	0.122	0.124	0.130	0.132	0.130	5.8

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Instrument ID: V1 Calibration Date(s): 06/14/2012 06/14/2012

Heated Purge: (Y/N) Y Calibration Time(s): 13:51 16:10

Purge Volume: 5.0 (mL)

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

LAB FILE ID: _____		RRF005 = <u>V1M7354.D</u>	RRF020 = <u>V1M7359.D</u>				
RRF050 = <u>V1M7358.D</u>		RRF100 = <u>V1M7357.D</u>	RRF200 = <u>V1M7356.D</u>				
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Dibromofluoromethane	0.266	0.268	0.278	0.290	0.278	0.276	3.4
1,2-Dichloroethane-d4	0.055	0.055	0.058	0.058	0.055	0.056	2.8
Toluene-d8	1.195	1.158	1.138	1.161	1.168	1.164	1.8
Bromofluorobenzene	0.452	0.434	0.419	0.448	0.441	0.439	3.0

Data File: \\avogadro\organics\V1.I\120614.B\V1M7354.D
 Report Date: 15-Jun-2012 14:14

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
 Data file : \\avogadro\organics\V1.I\120614.B\V1M7354.D
 Lab Smp Id: VSTD0051P Client Smp ID: VSTD0051P
 Inj Date : 14-JUN-2012 13:51
 Operator : V1 SRC: V1 Inst ID: V1.i
 Smp Info : 5ML,VSTD0051P,VSTD0051P
 Misc Info :
 Comment :
 Method : \\avogadro\organics\V1.I\120614.B\v18260GH.m
 Meth Date : 15-Jun-2012 14:12 adatta Quant Type: ISTD
 Cal Date : 14-JUN-2012 13:51 Cal File: V1M7354.D
 Als bottle: 5 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: TARGET105

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.671	1.678 (0.264)		40114	5.00000	0.4(a)
2 Chloromethane	50	1.868	1.865 (0.295)		95108	5.00000	0.3(a)
3 Vinyl Chloride	62	1.996	1.993 (0.315)		49280	5.00000	0.3(a)
4 Bromomethane	94	2.370	2.358 (0.375)		26411	5.00000	0.3(a)
5 Chloroethane	64	2.459	2.614 (0.389)		10086	5.00000	0.1(a)
6 Trichlorofluoromethane	101	2.715	2.732 (0.429)		21029	5.00000	0.3(a)
7 Ether	59	3.010	3.027 (0.476)		47421	5.00000	0.2(a)
8 Acrolein	56	3.138	3.155 (0.496)		16245	25.0000	0.4(a)
9 1,1-Dichloroethene	96	3.256	3.264 (0.515)		29653	5.00000	0.2(a)
10 1,1,2-Trichloro-1,2,2-trifluo	101	3.276	3.293 (0.518)		27391	5.00000	0.2(a)
11 Acetone	58	3.315	3.313 (0.524)		7779	5.00000	0.3(a)
12 Iodomethane	142	3.394	3.421 (0.536)		129723	5.00000	0.3(a)
13 Carbon Disulfide	76	3.473	3.490 (0.549)		234067	5.00000	0.3(a)
14 Acetonitrile	40	3.591	3.598 (0.567)		137335	50.0000	4(a)
15 Methyl Acetate	43	3.640	3.657 (0.575)		107043	5.00000	0.3(a)
16 Methylene Chloride	84	3.739	3.756 (0.591)		112419	5.00000	0.4(a)
17 tert-Butanol	59	3.857	3.874 (0.610)		18051	10.0000	0.6(a)
18 Acrylonitrile	53	3.985	4.002 (0.630)		38622	5.00000	0.3(a)
20 Methyl tert-butyl ether	73	4.034	4.051 (0.638)		211498	5.00000	0.3(a)
19 trans-1,2-Dichloroethene	96	4.024	4.051 (0.636)		72498	5.00000	0.3(a)
21 1,1-Dichloroethane	63	4.467	4.484 (0.706)		151450	5.00000	0.3(a)
22 Vinyl acetate	43	4.517	4.544 (0.714)		448595	5.00000	0.3(a)

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====		=====	=====	=====	=====	=====	=====	=====
23 Diisopropyl Ether	45		4.536	4.563	(0.717)		445331	5.00000	0.3(a)
24 Ethyl tert-butyl ether	59		4.920	4.947	(0.778)		294146	5.00000	0.3(a)
25 cis-1,2-Dichloroethene	96		5.068	5.095	(0.801)		91726	5.00000	0.3(a)
26 2,2-Dichloropropane	77		5.078	5.095	(0.802)		67402	5.00000	0.4(a)
28 2-Butanone	72		5.088	5.105	(0.804)		8838	5.00000	0.3(a)
29 Bromochloromethane	128		5.324	5.351	(0.841)		50779	5.00000	0.3(a)
30 Tetrahydrofuran	72		5.393	5.400	(0.852)		14800	10.00000	0.4(a)
31 Chloroform	83		5.413	5.430	(0.855)		122428	5.00000	0.3(a)
\$ 32 Dibromofluoromethane	113		5.580	5.607	(0.882)		489190	50.00000	42
33 1,1,1-Trichloroethane	97		5.629	5.646	(0.890)		88630	5.00000	0.4(a)
34 Cyclohexane	56		5.688	5.715	(0.899)		138677	5.00000	0.3(a)
36 Carbon Tetrachloride	117		5.806	5.824	(0.918)		71211	5.00000	0.3(a)
35 1,1-Dichloropropene	110		5.797	5.824	(0.916)		35597	5.00000	0.3(a)
\$ 37 1,2-Dichloroethane-d4	102		5.954	5.971	(0.941)		100654	50.00000	34
38 Benzene	78		6.023	6.050	(0.952)		310412	5.00000	0.3(a)
39 1,2-Dichloroethane	62		6.043	6.345	(0.955)		105576	5.00000	0.3(a)
40 tert-Amyl methyl ether	73		6.151	6.168	(0.972)		246950	5.00000	0.3(a)
* 41 Fluorobenzene	96		6.328	6.355	(1.000)		1836102	50.00000	
42 Trichloroethene	130		6.752	6.769	(1.067)		98904	5.00000	0.3(a)
43 Methylcyclohexane	83		6.978	6.995	(1.103)		123404	5.00000	0.3(a)
44 1,2-Dichloropropane	63		6.998	7.015	(1.106)		93642	5.00000	0.3(a)
46 Dibromomethane	93		7.126	7.143	(1.126)		54439	5.00000	0.3(a)
47 1,4-Dioxane	88		7.165	7.172	(1.132)		16398	100.000	6
48 Bromodichloromethane	83		7.313	7.330	(1.156)		109439	5.00000	0.3(a)
45 2-Chloroethyl vinyl ether	63		7.677	7.684	(1.213)		25961	5.00000	0.3(a)
49 cis-1,3-Dichloropropene	75		7.845	7.862	(1.240)		143375	5.00000	0.3(a)
50 4-Methyl-2-pentanone	43		8.032	8.049	(1.269)		117574	5.00000	0.3(a)
\$ 51 Toluene-d8	98		8.179	8.196	(0.817)		1806958	50.00000	55
52 Toluene	91		8.258	8.285	(1.305)		322780	5.00000	0.3(a)
53 trans-1,3-Dichloropropene	75		8.524	8.541	(1.347)		117726	5.00000	0.3(a)
54 1,1,2-Trichloroethane	97		8.750	8.768	(1.383)		70530	5.00000	0.3(a)
55 Tetrachloroethene	164		8.947	8.964	(0.894)		91501	5.00000	0.4(a)
56 1,3-Dichloropropane	76		8.967	8.984	(0.896)		120018	5.00000	0.4(a)
57 2-Hexanone	43		9.075	9.092	(0.907)		65335	5.00000	0.3(a)
58 Dibromochloromethane	129		9.253	8.964	(0.924)		87847	5.00000	0.4(a)
59 1,2-Dibromoethane	107		9.400	9.417	(0.939)		76811	5.00000	0.4(a)
* 60 Chlorobenzene-d5	117		10.011	10.028	(1.000)		1512309	50.00000	
63 1-Chlorohexane	91		10.021	10.038	(1.001)		101293	5.00000	0.4(a)
61 Chlorobenzene	112		10.050	10.067	(1.004)		217687	5.00000	0.4(a)
62 1,1,1,2-Tetrachloroethane	131		10.149	10.166	(1.014)		87481	5.00000	0.4(a)
64 Ethylbenzene	106		10.198	10.215	(1.019)		104861	5.00000	0.4(a)
65 m,p-Xylene	106		10.346	10.363	(1.033)		265003	10.00000	0.8(a)
66 o-Xylene	106		10.848	10.865	(1.084)		141721	5.00000	0.4(a)
67 Styrene	104		10.867	10.884	(1.086)		228532	5.00000	0.4(a)
68 Bromoform	173		11.084	11.101	(1.107)		72180	5.00000	0.4(a)
69 Isopropylbenzene	105		11.310	11.328	(1.130)		318697	5.00000	0.4(a)
126 trans-1,4-Dichloro-2-butene	75		11.389	11.505	(1.138)		33871	5.00000	0.3(a)
\$ 70 Bromofluorobenzene	95		11.498	11.505	(1.149)		683513	50.00000	46
72 Bromobenzene	156		11.675	11.682	(0.907)		128422	5.00000	0.7(a)
71 1,1,2,2-Tetrachloroethane	83		11.665	11.682	(0.907)		105221	5.00000	0.6(a)
73 1,2,3-Trichloropropane	75		11.724	11.731	(0.911)		109542	5.00000	0.6(a)
74 n-Propylbenzene	120		11.813	11.830	(0.918)		87417	5.00000	0.6(a)
75 2-Chlorotoluene	126		11.911	11.928	(0.926)		91099	5.00000	0.6(a)
76 1,3,5-Trimethylbenzene	105		12.029	12.036	(0.935)		267220	5.00000	0.7(a)

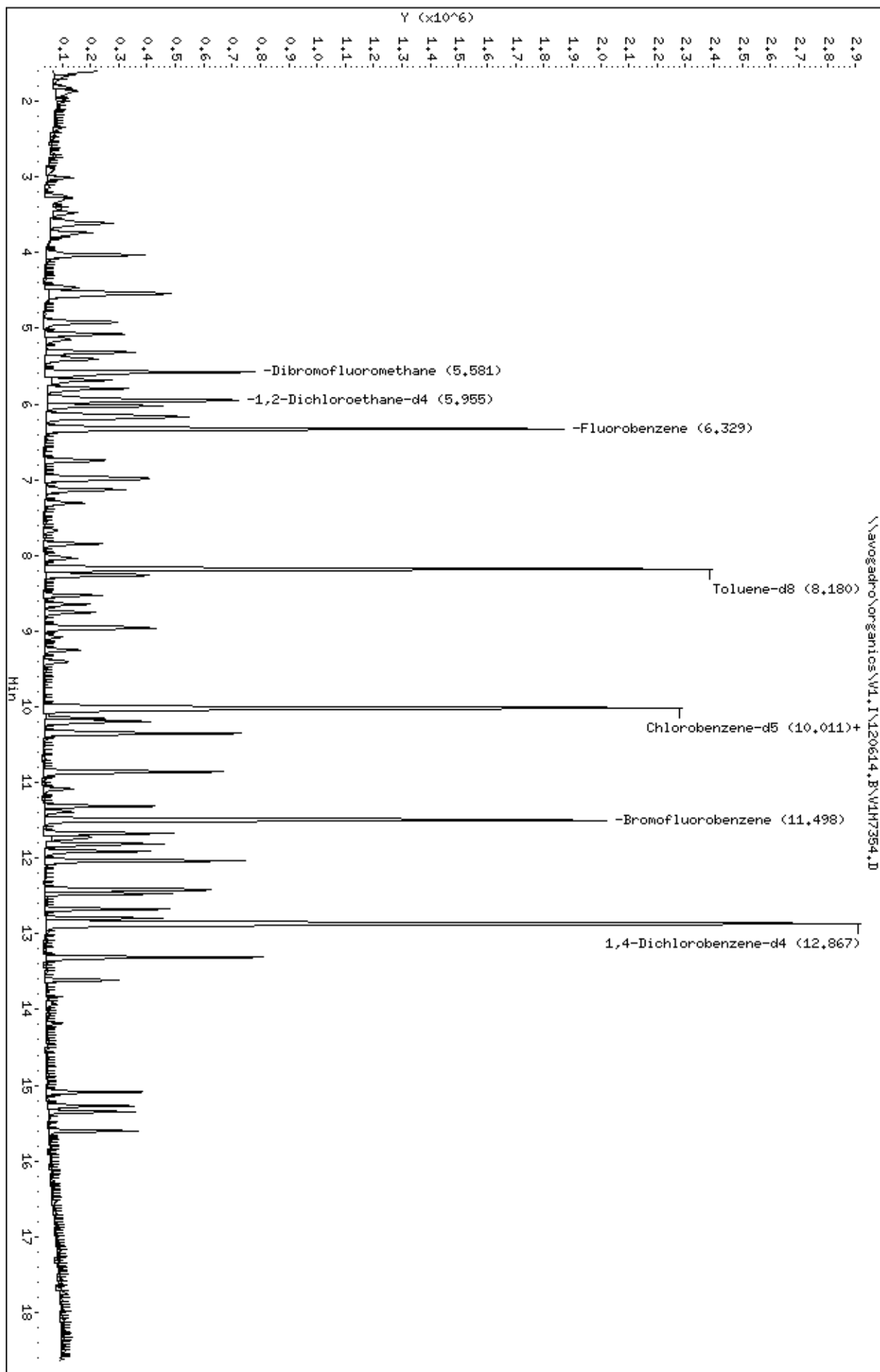
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
77 4-Chlorotoluene	126	12.039	12.056	(0.936)	98709		5.00000	0.7(a)
78 tert-Butylbenzene	119	12.413	12.430	(0.965)	304557		5.00000	0.7(a)
79 1,2,4-Trimethylbenzene	105	12.472	12.480	(0.969)	279705		5.00000	0.7(a)
M 81 Xylene (Total)	106				406724		15.0000	1(a)
80 sec-Butylbenzene	105	12.669	12.686	(0.985)	375904		5.00000	0.7(a)
82 1,3-Dichlorobenzene	146	12.787	12.804	(0.994)	209906		5.00000	0.7(a)
83 4-Isopropyltoluene	119	12.846	12.854	(0.998)	294561		5.00000	0.6(a)
* 84 1,4-Dichlorobenzene-d4	152	12.866	12.873	(1.000)	992739		50.0000	
85 1,4-Dichlorobenzene	146	12.896	12.903	(1.002)	229066		5.00000	0.7(a)
86 n-Butylbenzene	91	13.309	13.316	(1.034)	268136		5.00000	0.6(a)
87 1,2-Dichlorobenzene	146	13.319	13.326	(1.035)	207833		5.00000	0.7(a)
88 1,2-Dibromo-3-chloropropane	75	14.176	14.183	(1.102)	17701		5.00000	0.7(a)
128 1,3,5-Trichlorobenzene	180	15.091	15.089	(2.385)	147715		5.00000	0.3(aA)
89 1,2,4-Trichlorobenzene	180	15.091	15.089	(1.173)	147715		5.00000	0.6(a)
90 Hexachlorobutadiene	225	15.278	15.286	(1.187)	68204		5.00000	0.7(a)
91 Naphthalene	128	15.347	15.355	(1.193)	281316		5.00000	0.6(a)
92 1,2,3-Trichlorobenzene	180	15.603	15.611	(1.213)	128545		5.00000	0.6(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\avogadro\organics\VL1\120614.B\VLH7354.D
Date : 14-JUN-2012 13:51
Client ID: VSTD0051P
Sample Info: 5HL,VSTD0051P,VSTD0051P
Purge Volume: 5.0
Column phase: DB-624

Instrument: VL.i
Operator: VL SRC: VL
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\120614.B\V1M7356.D
Report Date: 15-Jun-2012 14:14

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
Data file : \\avogadro\organics\V1.I\120614.B\V1M7356.D
Lab Smp Id: VSTD2001P Client Smp ID: VSTD2001P
Inj Date : 14-JUN-2012 14:47
Operator : V1 SRC: V1 Inst ID: V1.i
Smp Info : 5ML,VSTD2001P,VSTD2001P
Misc Info :
Comment :
Method : \\avogadro\organics\V1.I\120614.B\v18260GH.m
Meth Date : 15-Jun-2012 14:12 adatta Quant Type: ISTD
Cal Date : 14-JUN-2012 14:47 Cal File: V1M7356.D
Als bottle: 7 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/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.683	1.678 (0.265)		1255271	200.000	200(A)
2 Chloromethane	50	1.880	1.865 (0.297)		2993620	200.000	200
3 Vinyl Chloride	62	1.998	1.993 (0.315)		1716364	200.000	200
4 Bromomethane	94	2.362	2.358 (0.373)		732068	200.000	180
5 Chloroethane	64	2.471	2.614 (0.390)		634502	200.000	230(A)
6 Trichlorofluoromethane	101	2.717	2.732 (0.429)		829369	200.000	210(A)
127 Ethanol	46	2.914	2.919 (0.460)		645365	20000.0	14000
7 Ether	59	3.012	3.027 (0.475)		1543201	200.000	190
8 Acrolein	56	3.140	3.155 (0.495)		411530	1000.00	900
9 1,1-Dichloroethene	96	3.258	3.264 (0.514)		1453959	200.000	200(A)
10 1,1,2-Trichloro-1,2,2-trifluo	101	3.278	3.293 (0.517)		1179706	200.000	190
11 Acetone	58	3.298	3.313 (0.520)		179947	200.000	170
12 Iodomethane	142	3.416	3.421 (0.539)		3903420	200.000	180
13 Carbon Disulfide	76	3.485	3.490 (0.550)		6199877	200.000	170
14 Acetonitrile	40	3.583	3.598 (0.565)		2943847	2000.00	1700
15 Methyl Acetate	43	3.642	3.657 (0.575)		2709724	200.000	180
16 Methylene Chloride	84	3.751	3.756 (0.592)		2301869	200.000	160
17 tert-Butanol	59	3.859	3.874 (0.609)		513532	400.000	340
18 Acrylonitrile	53	3.997	4.002 (0.630)		1095024	200.000	190
20 Methyl tert-butyl ether	73	4.046	4.051 (0.638)		6255236	200.000	180
19 trans-1,2-Dichloroethene	96	4.036	4.051 (0.637)		1996807	200.000	180
21 1,1-Dichloroethane	63	4.469	4.484 (0.705)		4486806	200.000	190
22 Vinyl acetate	43	4.528	4.544 (0.714)		12767095	200.000	180

Data File: \\avogadro\organics\V1.I\120614.B\V1M7356.D
Report Date: 15-Jun-2012 14:14

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
=====		=====	=====	=====	=====	=====	=====	=====
	23 Diisopropyl Ether	45	4.548	4.563	(0.717)	11669205	200.000	170
	24 Ethyl tert-butyl ether	59	4.932	4.947	(0.778)	8422269	200.000	180
M	27 1,2-dichloroethene, (Total)	100				4527712	400.000	(a)
	25 cis-1,2-Dichloroethene	96	5.080	5.095	(0.801)	2530905	200.000	180
	26 2,2-Dichloropropane	77	5.090	5.095	(0.803)	1649431	200.000	170
	28 2-Butanone	72	5.090	5.105	(0.803)	277495	200.000	190
	29 Bromochloromethane	128	5.336	5.351	(0.842)	1544592	200.000	180
	30 Tetrahydrofuran	72	5.395	5.400	(0.851)	634212	400.000	420
	31 Chloroform	83	5.424	5.430	(0.856)	3890330	200.000	190
\$	32 Dibromofluoromethane	113	5.592	5.607	(0.882)	471379	50.0000	50
	33 1,1,1-Trichloroethane	97	5.631	5.646	(0.888)	2188871	200.000	170
	34 Cyclohexane	56	5.700	5.715	(0.899)	3826591	200.000	170
	36 Carbon Tetrachloride	117	5.818	5.824	(0.918)	2088398	200.000	180
	35 1,1-Dichloropropene	110	5.808	5.824	(0.916)	1043801	200.000	180
\$	37 1,2-Dichloroethane-d4	102	5.956	5.971	(0.939)	92815	50.0000	49
	38 Benzene	78	6.035	6.050	(0.952)	8800358	200.000	180
	39 1,2-Dichloroethane	62	6.045	6.345	(0.953)	3050152	200.000	180
	40 tert-Amyl methyl ether	73	6.153	6.168	(0.970)	7039895	200.000	180
*	41 Fluorobenzene	96	6.340	6.355	(1.000)	1698362	50.0000	
	42 Trichloroethene	130	6.754	6.769	(1.065)	2592732	200.000	170
	43 Methylcyclohexane	83	6.980	6.995	(1.101)	3100302	200.000	160
	44 1,2-Dichloropropane	63	7.000	7.015	(1.104)	2661094	200.000	180
	46 Dibromomethane	93	7.138	7.143	(1.126)	1588150	200.000	190
	47 1,4-Dioxane	88	7.157	7.172	(1.129)	384749	4000.00	3200
	48 Bromodichloromethane	83	7.315	7.330	(1.154)	3114301	200.000	180
	45 2-Chloroethyl vinyl ether	63	7.679	7.684	(1.211)	897928	200.000	200(A)
	49 cis-1,3-Dichloropropene	75	7.847	7.862	(1.238)	4389681	200.000	190
	50 4-Methyl-2-pentanone	43	8.034	8.049	(1.267)	3643011	200.000	190
\$	51 Toluene-d8	98	8.181	8.196	(0.817)	1790666	50.0000	50
	52 Toluene	91	8.270	8.285	(1.304)	8544371	200.000	170
	53 trans-1,3-Dichloropropene	75	8.526	8.541	(1.345)	3744617	200.000	190
	54 1,1,2-Trichloroethane	97	8.752	8.768	(1.380)	2069956	200.000	190
	55 Tetrachloroethene	164	8.949	8.964	(0.894)	2309848	200.000	160
	56 1,3-Dichloropropane	76	8.969	8.984	(0.896)	3645338	200.000	180
	57 2-Hexanone	43	9.077	9.092	(0.907)	2489110	200.000	190
	58 Dibromochloromethane	129	9.255	8.964	(0.924)	2893227	200.000	180
	59 1,2-Dibromoethane	107	9.412	9.417	(0.940)	2371758	200.000	180
*	60 Chlorobenzene-d5	117	10.013	10.028	(1.000)	1533675	50.0000	
	63 1-Chlorohexane	91	10.032	10.038	(1.002)	2826219	200.000	160
	61 Chlorobenzene	112	10.052	10.067	(1.004)	6017794	200.000	160
	62 1,1,1,2-Tetrachloroethane	131	10.160	10.166	(1.015)	2454054	200.000	170
	64 Ethylbenzene	106	10.200	10.215	(1.019)	2870874	200.000	160
	65 m,p-Xylene	106	10.357	10.363	(1.034)	6807524	400.000	310
	66 o-Xylene	106	10.860	10.865	(1.085)	3562005	200.000	160
	67 Styrene	104	10.869	10.884	(1.086)	6088355	200.000	160
	68 Bromoform	173	11.086	11.101	(1.107)	2242411	200.000	180
	69 Isopropylbenzene	105	11.322	11.328	(1.131)	8038614	200.000	150
	126 trans-1,4-Dichloro-2-butene	75	11.391	11.505	(1.138)	1105887	200.000	180
\$	70 Bromofluorobenzene	95	11.500	11.505	(1.148)	676662	50.0000	50
	72 Bromobenzene	156	11.677	11.682	(0.907)	3298500	200.000	170
	71 1,1,2,2-Tetrachloroethane	83	11.677	11.682	(0.907)	2981341	200.000	180
	73 1,2,3-Trichloropropane	75	11.726	11.731	(0.911)	3367947	200.000	190
	74 n-Propylbenzene	120	11.824	11.830	(0.919)	2346769	200.000	170
	75 2-Chlorotoluene	126	11.913	11.928	(0.926)	2417688	200.000	170

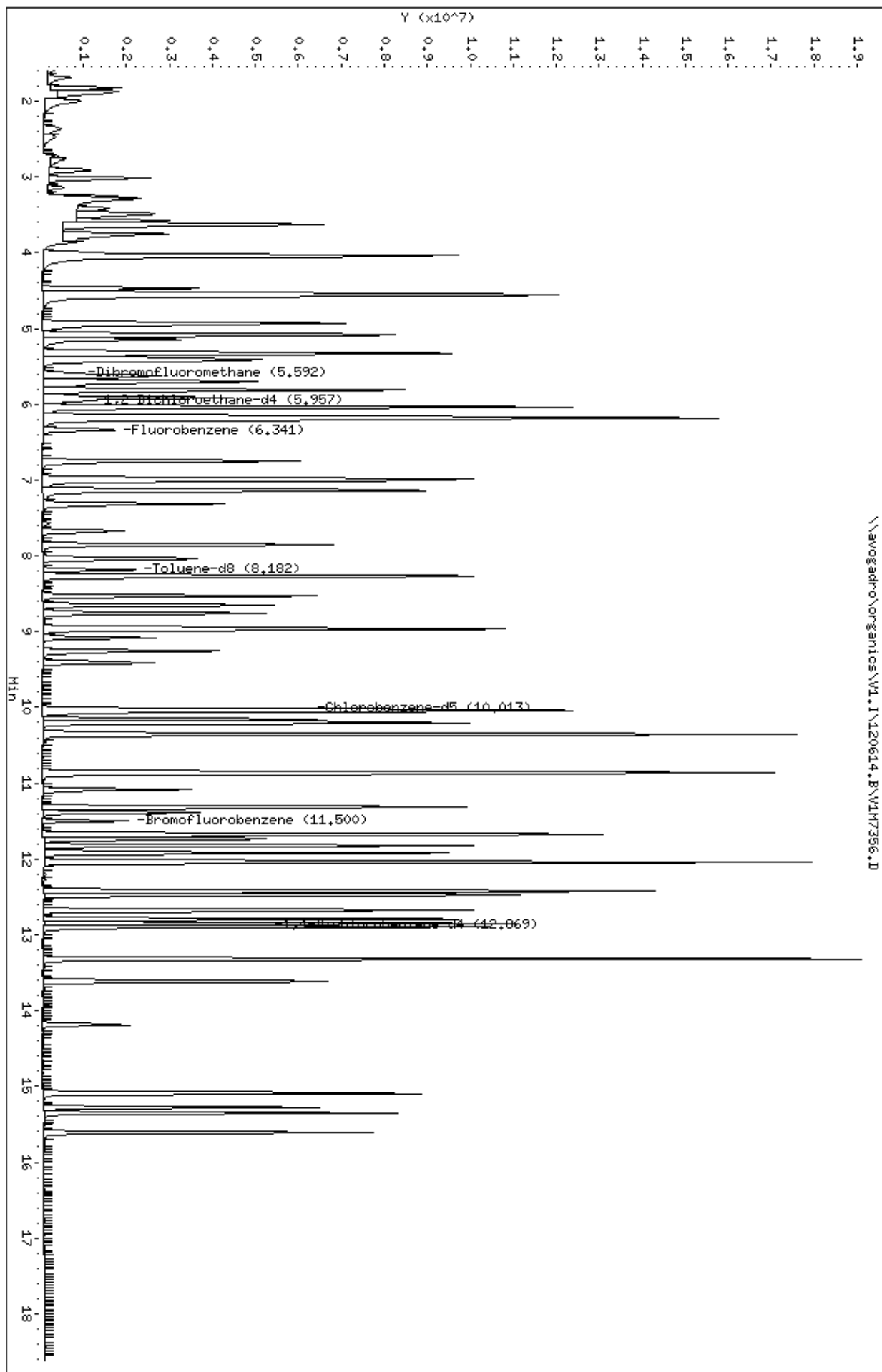
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
76 1,3,5-Trimethylbenzene	105	12.031	12.036	(0.935)	6318039		200.000	160
77 4-Chlorotoluene	126	12.051	12.056	(0.936)	2376459		200.000	160
78 tert-Butylbenzene	119	12.415	12.430	(0.965)	7035831		200.000	160
79 1,2,4-Trimethylbenzene	105	12.474	12.480	(0.969)	6437495		200.000	160
M 81 Xylene (Total)	106				10369529		600.000	(a)
80 sec-Butylbenzene	105	12.681	12.686	(0.985)	8198938		200.000	150
82 1,3-Dichlorobenzene	146	12.799	12.804	(0.995)	5169552		200.000	160
83 4-Isopropyltoluene	119	12.848	12.854	(0.998)	6906692		200.000	150
* 84 1,4-Dichlorobenzene-d4	152	12.868	12.873	(1.000)	884933		50.0000	
85 1,4-Dichlorobenzene	146	12.898	12.903	(1.002)	5037020		200.000	160
86 n-Butylbenzene	91	13.311	13.316	(1.034)	6329805		200.000	150
87 1,2-Dichlorobenzene	146	13.321	13.326	(1.035)	4907653		200.000	160
88 1,2-Dibromo-3-chloropropane	75	14.188	14.183	(1.103)	443739		200.000	180
128 1,3,5-Trichlorobenzene	180	15.093	15.089	(2.380)	3534022		200.000	160(A)
89 1,2,4-Trichlorobenzene	180	15.093	15.089	(1.173)	3534022		200.000	160
90 Hexachlorobutadiene	225	15.280	15.286	(1.187)	1377391		200.000	140
91 Naphthalene	128	15.349	15.355	(1.193)	7237522		200.000	160
92 1,2,3-Trichlorobenzene	180	15.615	15.611	(1.213)	3248201		200.000	160

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\VL1\120614.B\VLH7356.D
Date : 14-JUN-2012 14:47
Client ID: VSTD2001P
Sample Info: 5HL,VSTD2001P,VSTD2001P
Purge Volume: 5.0
Column phase: DB-624

Instrument: VL.i
Operator: V1 SRC: V1
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\120614.B\V1M7357.D
Report Date: 15-Jun-2012 14:14

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
Data file : \\avogadro\organics\V1.I\120614.B\V1M7357.D
Lab Smp Id: VSTD1001P Client Smp ID: VSTD1001P
Inj Date : 14-JUN-2012 15:15
Operator : V1 SRC: V1 Inst ID: V1.i
Smp Info : 5ML,VSTD1001P,VSTD1001P
Misc Info :
Comment :
Method : \\avogadro\organics\V1.I\120614.B\v18260GH.m
Meth Date : 15-Jun-2012 14:12 adatta Quant Type: ISTD
Cal Date : 14-JUN-2012 15:15 Cal File: V1M7357.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET105

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.679	1.678 (0.265)		646740	100.000	10
2 Chloromethane	50	1.876	1.865 (0.296)		1538759	100.000	8
3 Vinyl Chloride	62	1.994	1.993 (0.314)		878255	100.000	8
4 Bromomethane	94	2.368	2.358 (0.373)		391298	100.000	8
5 Chloroethane	64	2.466	2.614 (0.389)		345213	100.000	8
6 Trichlorofluoromethane	101	2.732	2.732 (0.431)		462790	100.000	10
127 Ethanol	46	2.909	2.919 (0.459)		434600	10000.0	940
7 Ether	59	3.028	3.027 (0.477)		828331	100.000	7
8 Acrolein	56	3.146	3.155 (0.496)		207571	500.000	10
9 1,1-Dichloroethene	96	3.264	3.264 (0.514)		808693	100.000	8
10 1,1,2-Trichloro-1,2,2-trifluo	101	3.293	3.293 (0.519)		739459	100.000	8
11 Acetone	58	3.303	3.313 (0.521)		91261	100.000	5
12 Iodomethane	142	3.421	3.421 (0.539)		2178203	100.000	8
13 Carbon Disulfide	76	3.490	3.490 (0.550)		3558481	100.000	8
14 Acetonitrile	40	3.589	3.598 (0.566)		1555428	1000.00	76
15 Methyl Acetate	43	3.648	3.657 (0.575)		1401359	100.000	7
16 Methylene Chloride	84	3.756	3.756 (0.592)		1237305	100.000	8
17 tert-Butanol	59	3.874	3.874 (0.611)		281065	200.000	15
18 Acrylonitrile	53	4.002	4.002 (0.631)		541796	100.000	7
20 Methyl tert-butyl ether	73	4.052	4.051 (0.638)		3436373	100.000	8
19 trans-1,2-Dichloroethene	96	4.042	4.051 (0.637)		1099606	100.000	8
21 1,1-Dichloroethane	63	4.475	4.484 (0.705)		2376350	100.000	8

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
=====		=====	=====	=====	=====	=====	=====	=====
	22 Vinyl acetate	43	4.534	4.544	(0.715)	6962474	100.000	7
	23 Diisopropyl Ether	45	4.554	4.563	(0.718)	6500270	100.000	7
	24 Ethyl tert-butyl ether	59	4.938	4.947	(0.778)	4550445	100.000	8
M	27 1,2-dichloroethene, (Total)	100				2460473	200.000	16
	25 cis-1,2-Dichloroethene	96	5.085	5.095	(0.801)	1360867	100.000	8
	26 2,2-Dichloropropane	77	5.095	5.095	(0.803)	921285	100.000	8
	28 2-Butanone	72	5.105	5.105	(0.804)	139300	100.000	7
	29 Bromochloromethane	128	5.341	5.351	(0.842)	834803	100.000	8
	30 Tetrahydrofuran	72	5.400	5.400	(0.851)	346360	200.000	15
	31 Chloroform	83	5.430	5.430	(0.856)	2099384	100.000	8
\$	32 Dibromofluoromethane	113	5.597	5.607	(0.882)	517506	50.0000	48
	33 1,1,1-Trichloroethane	97	5.637	5.646	(0.888)	1253647	100.000	8
	34 Cyclohexane	56	5.706	5.715	(0.899)	2391825	100.000	8
	36 Carbon Tetrachloride	117	5.824	5.824	(0.918)	1200876	100.000	8
	35 1,1-Dichloropropene	110	5.814	5.824	(0.916)	583062	100.000	8
\$	37 1,2-Dichloroethane-d4	102	5.972	5.971	(0.941)	103109	50.0000	41
	38 Benzene	78	6.040	6.050	(0.952)	4943856	100.000	8
	39 1,2-Dichloroethane	62	6.050	6.345	(0.953)	1621772	100.000	7
	40 tert-Amyl methyl ether	73	6.168	6.168	(0.972)	3925701	100.000	8
*	41 Fluorobenzene	96	6.346	6.355	(1.000)	1782741	50.0000	
	42 Trichloroethene	130	6.759	6.769	(1.065)	1469443	100.000	8
	43 Methylcyclohexane	83	6.986	6.995	(1.101)	2103680	100.000	9
	44 1,2-Dichloropropane	63	7.005	7.015	(1.104)	1452398	100.000	8
	46 Dibromomethane	93	7.143	7.143	(1.126)	869901	100.000	8
	47 1,4-Dioxane	88	7.163	7.172	(1.129)	261100	2000.00	160
	48 Bromodichloromethane	83	7.320	7.330	(1.154)	1701538	100.000	8
	45 2-Chloroethyl vinyl ether	63	7.685	7.684	(1.211)	464495	100.000	8
	49 cis-1,3-Dichloropropene	75	7.862	7.862	(1.239)	2307721	100.000	8
	50 4-Methyl-2-pentanone	43	8.049	8.049	(1.268)	1915537	100.000	7
\$	51 Toluene-d8	98	8.197	8.196	(0.818)	1783385	50.0000	52
	52 Toluene	91	8.276	8.285	(1.304)	4966808	100.000	8
	53 trans-1,3-Dichloropropene	75	8.532	8.541	(1.344)	1959361	100.000	8
	54 1,1,2-Trichloroethane	97	8.768	8.768	(1.382)	1130633	100.000	8
	55 Tetrachloroethene	164	8.965	8.964	(0.895)	1458638	100.000	10
	56 1,3-Dichloropropane	76	8.975	8.984	(0.896)	1971777	100.000	10
	57 2-Hexanone	43	9.083	9.092	(0.907)	1336139	100.000	9
	58 Dibromochloromethane	129	9.260	8.964	(0.924)	1563654	100.000	10
	59 1,2-Dibromoethane	107	9.408	9.417	(0.939)	1281826	100.000	10
*	60 Chlorobenzene-d5	117	10.018	10.028	(1.000)	1535505	50.0000	
	63 1-Chlorohexane	91	10.038	10.038	(1.002)	1858255	100.000	11
	61 Chlorobenzene	112	10.058	10.067	(1.004)	3472245	100.000	10
	62 1,1,1,2-Tetrachloroethane	131	10.166	10.166	(1.015)	1383341	100.000	10
	64 Ethylbenzene	106	10.205	10.215	(1.019)	1760098	100.000	10
	65 m,p-Xylene	106	10.353	10.363	(1.033)	4233556	200.000	20
	66 o-Xylene	106	10.855	10.865	(1.084)	2172947	100.000	10
	67 Styrene	104	10.875	10.884	(1.086)	3634799	100.000	10
	68 Bromoform	173	11.092	11.101	(1.107)	1199200	100.000	10
	69 Isopropylbenzene	105	11.318	11.328	(1.130)	5307702	100.000	11
	126 trans-1,4-Dichloro-2-butene	75	11.397	11.505	(1.138)	581179	100.000	9
\$	70 Bromofluorobenzene	95	11.505	11.505	(1.148)	687658	50.0000	47
	72 Bromobenzene	156	11.682	11.682	(0.907)	1955487	100.000	17
	71 1,1,2,2-Tetrachloroethane	83	11.672	11.682	(0.907)	1617597	100.000	17
	73 1,2,3-Trichloropropane	75	11.732	11.731	(0.911)	1810463	100.000	17
	74 n-Propylbenzene	120	11.830	11.830	(0.919)	1519567	100.000	18

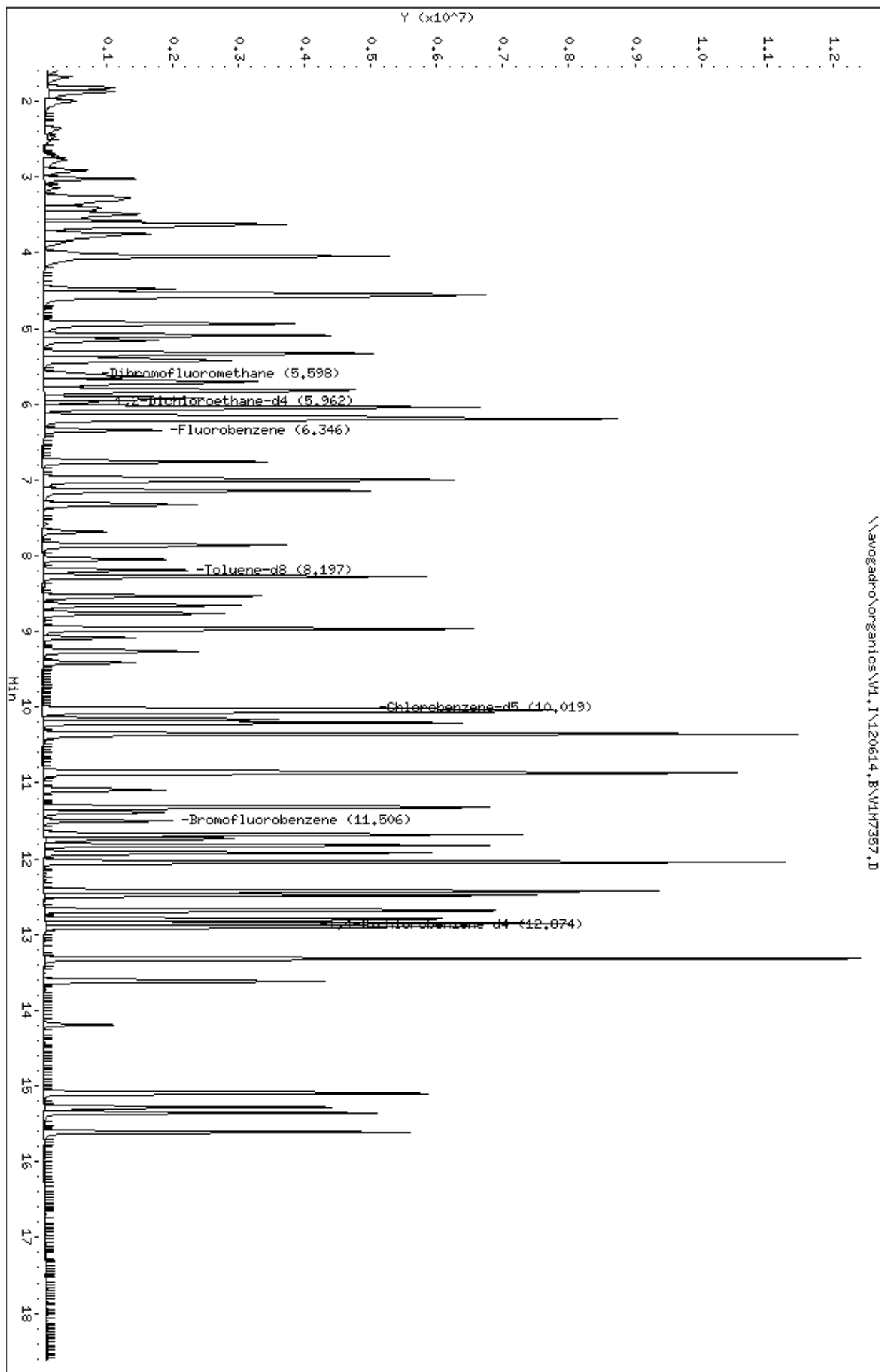
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
75 2-Chlorotoluene	126	11.919	11.928 (0.926)		1500523		100.000	18
76 1,3,5-Trimethylbenzene	105	12.037	12.036 (0.935)		4314397		100.000	18
77 4-Chlorotoluene	126	12.056	12.056 (0.937)		1531431		100.000	18
78 tert-Butylbenzene	119	12.431	12.430 (0.966)		4623894		100.000	18
79 1,2,4-Trimethylbenzene	105	12.480	12.480 (0.969)		4294580		100.000	18
M 81 Xylene (Total)	106				6406503		300.000	31
80 sec-Butylbenzene	105	12.687	12.686 (0.985)		5811700		100.000	18
82 1,3-Dichlorobenzene	146	12.805	12.804 (0.995)		3332769		100.000	18
83 4-Isopropyltoluene	119	12.854	12.854 (0.998)		4892542		100.000	18
* 84 1,4-Dichlorobenzene-d4	152	12.874	12.873 (1.000)		921794		50.0000	
85 1,4-Dichlorobenzene	146	12.903	12.903 (1.002)		3187094		100.000	17
86 n-Butylbenzene	91	13.317	13.316 (1.034)		4523161		100.000	19
87 1,2-Dichlorobenzene	146	13.327	13.326 (1.035)		3107445		100.000	18
88 1,2-Dibromo-3-chloropropane	75	14.183	14.183 (1.102)		248757		100.000	17
128 1,3,5-Trichlorobenzene	180	15.099	15.089 (2.379)		2456923		100.000	8(A)
89 1,2,4-Trichlorobenzene	180	15.099	15.089 (1.173)		2456923		100.000	18
90 Hexachlorobutadiene	225	15.286	15.286 (1.187)		1006998		100.000	18
91 Naphthalene	128	15.355	15.355 (1.193)		4585599		100.000	18
92 1,2,3-Trichlorobenzene	180	15.611	15.611 (1.213)		2228311		100.000	18

QC Flag Legend

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

Data File: \\avogadro\organics\VL1\120614.B\VLH7357.D
 Date : 14-JUN-2012 15:15
 Client ID: WSTD1001P
 Sample Info: 5ML,WSTD1001P,WSTD1001P
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: VL.i
 Operator: VL SRC: VL
 Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\120614.B\V1M7358.D
Report Date: 15-Jun-2012 14:15

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
Data file : \\avogadro\organics\V1.I\120614.B\V1M7358.D
Lab Smp Id: VSTD0501P Client Smp ID: VSTD0501P
Inj Date : 14-JUN-2012 15:42
Operator : V1 SRC: V1 Inst ID: V1.i
Smp Info : 5ML,VSTD0501P,VSTD0501P
Misc Info :
Comment :
Method : \\avogadro\organics\V1.I\120614.B\v18260GH.m
Meth Date : 15-Jun-2012 14:12 adatta Quant Type: ISTD
Cal Date : 14-JUN-2012 15:42 Cal File: V1M7358.D
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET105

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.679	1.678	(0.265)	323247	50.0000	48
2 Chloromethane	50	1.866	1.865	(0.295)	767240	50.0000	48
3 Vinyl Chloride	62	1.994	1.993	(0.315)	430861	50.0000	48
4 Bromomethane	94	2.358	2.358	(0.372)	200318	50.0000	48
5 Chloroethane	64	2.476	2.614	(0.391)	172445	50.0000	54
6 Trichlorofluoromethane	101	2.722	2.732	(0.430)	219589	50.0000	55
127 Ethanol	46	2.909	2.919	(0.459)	212949	5000.00	4600
7 Ether	59	3.018	3.027	(0.476)	430792	50.0000	50
8 Acrolein	56	3.146	3.155	(0.497)	102907	250.000	220
9 1,1-Dichloroethene	96	3.254	3.264	(0.514)	421633	50.0000	55
10 1,1,2-Trichloro-1,2,2-trifluo	101	3.283	3.293	(0.518)	373599	50.0000	61
11 Acetone	58	3.293	3.313	(0.520)	53712	50.0000	49
12 Iodomethane	142	3.402	3.421	(0.537)	1084878	50.0000	49
13 Carbon Disulfide	76	3.480	3.490	(0.549)	1781245	50.0000	48
14 Acetonitrile	40	3.579	3.598	(0.565)	781879	500.000	430
15 Methyl Acetate	43	3.638	3.657	(0.574)	727246	50.0000	46
16 Methylene Chloride	84	3.746	3.756	(0.591)	628462	50.0000	44
17 tert-Butanol	59	3.855	3.874	(0.608)	138995	100.000	96
18 Acrylonitrile	53	3.992	4.002	(0.630)	283496	50.0000	48
20 Methyl tert-butyl ether	73	4.042	4.051	(0.638)	1699438	50.0000	48
19 trans-1,2-Dichloroethene	96	4.032	4.051	(0.636)	546573	50.0000	47
21 1,1-Dichloroethane	63	4.475	4.484	(0.706)	1159275	50.0000	47

Data File: \\avogadro\organics\V1.I\120614.B\V1M7358.D
Report Date: 15-Jun-2012 14:15

						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
M 22 Vinyl acetate	43	4.524	4.544	(0.714)	3532213	50.0000	48
23 Diisopropyl Ether	45	4.554	4.563	(0.719)	3344096	50.0000	48
24 Ethyl tert-butyl ether	59	4.928	4.947	(0.778)	2253416	50.0000	47
27 1,2-dichloroethene, (Total)	100				1245462	100.000	95
25 cis-1,2-Dichloroethene	96	5.085	5.095	(0.803)	698889	50.0000	48
26 2,2-Dichloropropane	77	5.085	5.095	(0.803)	493937	50.0000	48
28 2-Butanone	72	5.095	5.105	(0.804)	70895	50.0000	48
29 Bromochloromethane	128	5.341	5.351	(0.843)	429805	50.0000	50
30 Tetrahydrofuran	72	5.391	5.400	(0.851)	163703	100.000	100
31 Chloroform	83	5.420	5.430	(0.855)	1051171	50.0000	49
\$ 32 Dibromofluoromethane	113	5.597	5.607	(0.883)	491196	50.0000	50
33 1,1,1-Trichloroethane	97	5.627	5.646	(0.888)	620079	50.0000	47
34 Cyclohexane	56	5.706	5.715	(0.901)	1155023	50.0000	49
36 Carbon Tetrachloride	117	5.814	5.824	(0.918)	597605	50.0000	49
35 1,1-Dichloropropene	110	5.814	5.824	(0.918)	302238	50.0000	50
\$ 37 1,2-Dichloroethane-d4	102	5.962	5.971	(0.941)	101855	50.0000	51
38 Benzene	78	6.040	6.050	(0.953)	2554231	50.0000	50
39 1,2-Dichloroethane	62	6.040	6.345	(0.953)	827127	50.0000	48
40 tert-Amyl methyl ether	73	6.159	6.168	(0.972)	1974749	50.0000	49
* 41 Fluorobenzene	96	6.336	6.355	(1.000)	1769045	50.0000	
42 Trichloroethene	130	6.759	6.769	(1.067)	762444	50.0000	49
43 Methylcyclohexane	83	6.986	6.995	(1.103)	992899	50.0000	49
44 1,2-Dichloropropane	63	7.005	7.015	(1.106)	720347	50.0000	48
46 Dibromomethane	93	7.143	7.143	(1.127)	419485	50.0000	47
47 1,4-Dioxane	88	7.163	7.172	(1.131)	115932	1000.00	940
48 Bromodichloromethane	83	7.320	7.330	(1.155)	816334	50.0000	47
45 2-Chloroethyl vinyl ether	63	7.685	7.684	(1.213)	220005	50.0000	48
49 cis-1,3-Dichloropropene	75	7.852	7.862	(1.239)	1119590	50.0000	47
50 4-Methyl-2-pentanone	43	8.039	8.049	(1.269)	979068	50.0000	50
\$ 51 Toluene-d8	98	8.187	8.196	(0.817)	1713278	50.0000	49
52 Toluene	91	8.266	8.285	(1.305)	2569127	50.0000	50
53 trans-1,3-Dichloropropene	75	8.531	8.541	(1.347)	986386	50.0000	49
54 1,1,2-Trichloroethane	97	8.758	8.768	(1.382)	537827	50.0000	47
55 Tetrachloroethene	164	8.955	8.964	(0.894)	723391	50.0000	50
56 1,3-Dichloropropane	76	8.975	8.984	(0.896)	1000159	50.0000	49
57 2-Hexanone	43	9.083	9.092	(0.907)	651627	50.0000	51
58 Dibromochloromethane	129	9.260	8.964	(0.924)	775142	50.0000	50
59 1,2-Dibromoethane	107	9.408	9.417	(0.939)	653620	50.0000	50
* 60 Chlorobenzene-d5	117	10.018	10.028	(1.000)	1505154	50.0000	
63 1-Chlorohexane	91	10.038	10.038	(1.002)	871364	50.0000	49
61 Chlorobenzene	112	10.058	10.067	(1.004)	1746436	50.0000	49
62 1,1,1,2-Tetrachloroethane	131	10.156	10.166	(1.014)	685006	50.0000	48
64 Ethylbenzene	106	10.205	10.215	(1.019)	845649	50.0000	49
65 m,p-Xylene	106	10.353	10.363	(1.033)	2138987	100.000	100
66 o-Xylene	106	10.855	10.865	(1.084)	1062631	50.0000	48
67 Styrene	104	10.875	10.884	(1.086)	1840061	50.0000	50
68 Bromoform	173	11.091	11.101	(1.107)	591147	50.0000	49
69 Isopropylbenzene	105	11.318	11.328	(1.130)	2527247	50.0000	49
126 trans-1,4-Dichloro-2-butene	75	11.387	11.505	(1.137)	297734	50.0000	51
\$ 70 Bromofluorobenzene	95	11.495	11.505	(1.147)	630983	50.0000	48
72 Bromobenzene	156	11.672	11.682	(0.907)	969513	50.0000	50
71 1,1,2,2-Tetrachloroethane	83	11.672	11.682	(0.907)	802686	50.0000	49
73 1,2,3-Trichloropropane	75	11.722	11.731	(0.911)	940891	50.0000	52
74 n-Propylbenzene	120	11.820	11.830	(0.919)	733402	50.0000	51

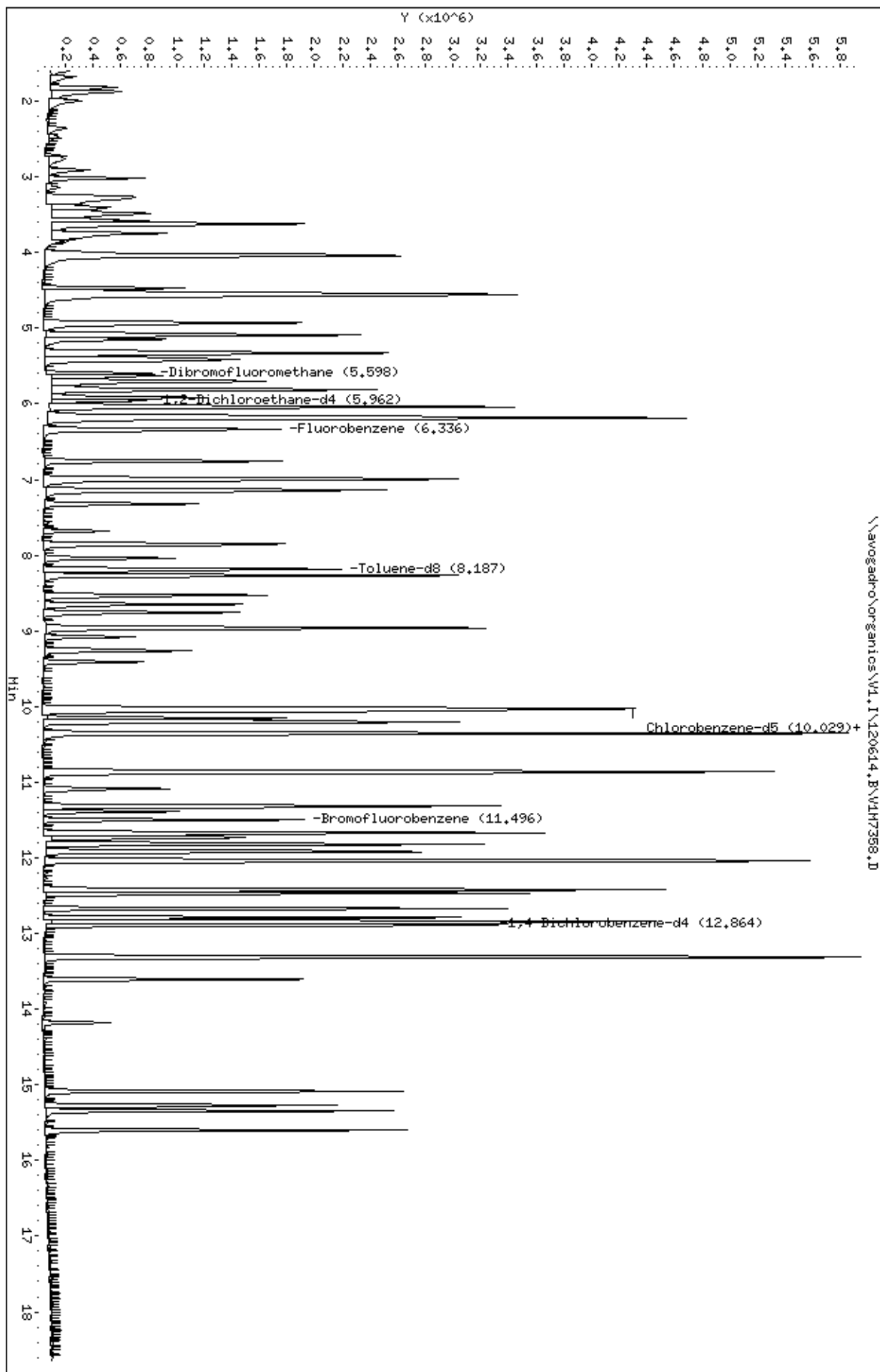
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
75 2-Chlorotoluene	126	11.919	11.928 (0.927)		720158		50.0000	50
76 1,3,5-Trimethylbenzene	105	12.037	12.036 (0.936)		2054460		50.0000	50
77 4-Chlorotoluene	126	12.047	12.056 (0.936)		732078		50.0000	50
78 tert-Butylbenzene	119	12.421	12.430 (0.966)		2193826		50.0000	49
79 1,2,4-Trimethylbenzene	105	12.470	12.480 (0.969)		2064799		50.0000	50
M 81 Xylene (Total)	106				3201618		150.000	150
80 sec-Butylbenzene	105	12.667	12.686 (0.985)		2716603		50.0000	49
82 1,3-Dichlorobenzene	146	12.785	12.804 (0.994)		1601327		50.0000	50
83 4-Isopropyltoluene	119	12.844	12.854 (0.998)		2372740		50.0000	52
* 84 1,4-Dichlorobenzene-d4	152	12.864	12.873 (1.000)		896346		50.0000	
85 1,4-Dichlorobenzene	146	12.893	12.903 (1.002)		1597299		50.0000	50
86 n-Butylbenzene	91	13.307	13.316 (1.034)		2115606		50.0000	50
87 1,2-Dichlorobenzene	146	13.317	13.326 (1.035)		1504608		50.0000	49
88 1,2-Dibromo-3-chloropropane	75	14.173	14.183 (1.102)		122581		50.0000	49
128 1,3,5-Trichlorobenzene	180	15.089	15.089 (2.381)		1128259		50.0000	49(A)
89 1,2,4-Trichlorobenzene	180	15.089	15.089 (1.173)		1128259		50.0000	50
90 Hexachlorobutadiene	225	15.276	15.286 (1.188)		459200		50.0000	48
91 Naphthalene	128	15.345	15.355 (1.193)		2219783		50.0000	51
92 1,2,3-Trichlorobenzene	180	15.601	15.611 (1.213)		1023773		50.0000	51

QC Flag Legend

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

Data File: \\avogadro\organics\VL1\120614.B\VLH7358.D
Date : 14-JUN-2012 15:42
Client ID: VSTD0501P
Sample Info: 5HL,VSTD0501P,VSTD0501P
Purge Volume: 5.0
Column phase: DB-624

Instrument: VL.i
Operator: VL SRC: VL
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\120614.B\V1M7359.D
Report Date: 15-Jun-2012 14:15

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
Data file : \\avogadro\organics\V1.I\120614.B\V1M7359.D
Lab Smp Id: VSTD0201P Client Smp ID: VSTD0201P
Inj Date : 14-JUN-2012 16:10
Operator : V1 SRC: V1 Inst ID: V1.i
Smp Info : 5ML,VSTD0201P,VSTD0201P
Misc Info :
Comment :
Method : \\avogadro\organics\V1.I\120614.B\v18260GH.m
Meth Date : 15-Jun-2012 14:12 adatta Quant Type: ISTD
Cal Date : 14-JUN-2012 16:10 Cal File: V1M7359.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET105

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.679	1.678	(0.265)	97224	20.0000	15
2 Chloromethane	50	1.876	1.865	(0.296)	312810	20.0000	19
3 Vinyl Chloride	62	2.004	1.993	(0.316)	181279	20.0000	20
4 Bromomethane	94	2.378	2.358	(0.375)	88182	20.0000	20
5 Chloroethane	64	2.467	2.614	(0.389)	48346	20.0000	16
6 Trichlorofluoromethane	101	2.733	2.732	(0.431)	62141	20.0000	15
127 Ethanol	46	2.920	2.919	(0.460)	116845	2000.00	2400
7 Ether	59	3.028	3.027	(0.477)	185870	20.0000	21
8 Acrolein	56	3.156	3.155	(0.497)	52525	100.000	110
9 1,1-Dichloroethene	96	3.264	3.264	(0.514)	158263	20.0000	20
10 1,1,2-Trichloro-1,2,2-trifluo	101	3.284	3.293	(0.518)	138292	20.0000	20
11 Acetone	58	3.314	3.313	(0.522)	22773	20.0000	20
12 Iodomethane	142	3.412	3.421	(0.538)	463333	20.0000	20
13 Carbon Disulfide	76	3.491	3.490	(0.550)	784365	20.0000	20
14 Acetonitrile	40	3.589	3.598	(0.566)	317006	200.000	170
15 Methyl Acetate	43	3.658	3.657	(0.576)	316670	20.0000	19
16 Methylene Chloride	84	3.757	3.756	(0.592)	297428	20.0000	20
17 tert-Butanol	59	3.865	3.874	(0.609)	80894	40.0000	50
18 Acrylonitrile	53	4.003	4.002	(0.631)	105418	20.0000	17
20 Methyl tert-butyl ether	73	4.052	4.051	(0.639)	745491	20.0000	20
19 trans-1,2-Dichloroethene	96	4.042	4.051	(0.637)	243518	20.0000	20
21 1,1-Dichloroethane	63	4.475	4.484	(0.705)	511619	20.0000	20

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
=====		=====	=====	=====	=====	=====	=====	=====
M	22 Vinyl acetate	43	4.534	4.544	(0.715)	1498900	20.0000	20
	23 Diisopropyl Ether	45	4.554	4.563	(0.718)	1443603	20.0000	20
	24 Ethyl tert-butyl ether	59	4.938	4.947	(0.778)	977219	20.0000	20
	27 1,2-dichloroethene, (Total)	100				550291	40.0000	40
	25 cis-1,2-Dichloroethene	96	5.086	5.095	(0.801)	306773	20.0000	20
	26 2,2-Dichloropropane	77	5.096	5.095	(0.803)	212291	20.0000	20
	28 2-Butanone	72	5.096	5.105	(0.803)	31396	20.0000	20
	29 Bromochloromethane	128	5.342	5.351	(0.842)	177683	20.0000	20
	30 Tetrahydrofuran	72	5.401	5.400	(0.851)	63122	40.0000	38
	31 Chloroform	83	5.421	5.430	(0.854)	455174	20.0000	20
\$	32 Dibromofluoromethane	113	5.598	5.607	(0.882)	492372	50.0000	49
	33 1,1,1-Trichloroethane	97	5.637	5.646	(0.888)	260457	20.0000	19
	34 Cyclohexane	56	5.706	5.715	(0.899)	446449	20.0000	19
	36 Carbon Tetrachloride	117	5.814	5.824	(0.916)	248150	20.0000	20
	35 1,1-Dichloropropene	110	5.814	5.824	(0.916)	126284	20.0000	20
\$	37 1,2-Dichloroethane-d4	102	5.962	5.971	(0.939)	100833	50.0000	49
	38 Benzene	78	6.041	6.050	(0.952)	1104963	20.0000	20
	39 1,2-Dichloroethane	62	6.051	6.345	(0.953)	360798	20.0000	20
	40 tert-Amyl methyl ether	73	6.159	6.168	(0.971)	842099	20.0000	20
*	41 Fluorobenzene	96	6.346	6.355	(1.000)	1834293	50.0000	
	42 Trichloroethene	130	6.760	6.769	(1.065)	324672	20.0000	20
	43 Methylcyclohexane	83	6.986	6.995	(1.101)	412488	20.0000	20
	44 1,2-Dichloropropane	63	7.006	7.015	(1.104)	294712	20.0000	19
	46 Dibromomethane	93	7.144	7.143	(1.126)	174757	20.0000	19
	47 1,4-Dioxane	88	7.163	7.172	(1.129)	54096	400.000	410
	48 Bromodichloromethane	83	7.321	7.330	(1.154)	365144	20.0000	20
	45 2-Chloroethyl vinyl ether	63	7.675	7.684	(1.209)	89650	20.0000	19
	49 cis-1,3-Dichloropropene	75	7.853	7.862	(1.237)	483429	20.0000	20
	50 4-Methyl-2-pentanone	43	8.040	8.049	(1.267)	387600	20.0000	19
\$	51 Toluene-d8	98	8.187	8.196	(0.817)	1769226	50.0000	50
	52 Toluene	91	8.266	8.285	(1.303)	1084165	20.0000	20
	53 trans-1,3-Dichloropropene	75	8.532	8.541	(1.344)	401970	20.0000	19
	54 1,1,2-Trichloroethane	97	8.758	8.768	(1.380)	237988	20.0000	20
	55 Tetrachloroethene	164	8.955	8.964	(0.894)	287641	20.0000	20
	56 1,3-Dichloropropane	76	8.975	8.984	(0.896)	421395	20.0000	20
	57 2-Hexanone	43	9.083	9.092	(0.907)	266286	20.0000	20
	58 Dibromochloromethane	129	9.261	8.964	(0.924)	316939	20.0000	20
	59 1,2-Dibromoethane	107	9.408	9.417	(0.939)	260996	20.0000	20
*	60 Chlorobenzene-d5	117	10.019	10.028	(1.000)	1527281	50.0000	
	63 1-Chlorohexane	91	10.038	10.038	(1.002)	355935	20.0000	20
	61 Chlorobenzene	112	10.058	10.067	(1.004)	737170	20.0000	20
	62 1,1,1,2-Tetrachloroethane	131	10.157	10.166	(1.014)	287821	20.0000	20
	64 Ethylbenzene	106	10.206	10.215	(1.019)	348631	20.0000	20
	65 m,p-Xylene	106	10.354	10.363	(1.033)	892815	40.0000	41
	66 o-Xylene	106	10.856	10.865	(1.084)	434049	20.0000	20
	67 Styrene	104	10.875	10.884	(1.085)	779311	20.0000	21
	68 Bromoform	173	11.092	11.101	(1.107)	249335	20.0000	20
	69 Isopropylbenzene	105	11.318	11.328	(1.130)	1078547	20.0000	20
	126 trans-1,4-Dichloro-2-butene	75	11.387	11.505	(1.137)	116588	20.0000	19
\$	70 Bromofluorobenzene	95	11.496	11.505	(1.147)	662342	50.0000	49
	72 Bromobenzene	156	11.683	11.682	(0.908)	428899	20.0000	20
	71 1,1,2,2-Tetrachloroethane	83	11.673	11.682	(0.907)	347422	20.0000	20
	73 1,2,3-Trichloropropane	75	11.732	11.731	(0.912)	375714	20.0000	19
	74 n-Propylbenzene	120	11.821	11.830	(0.919)	301602	20.0000	20

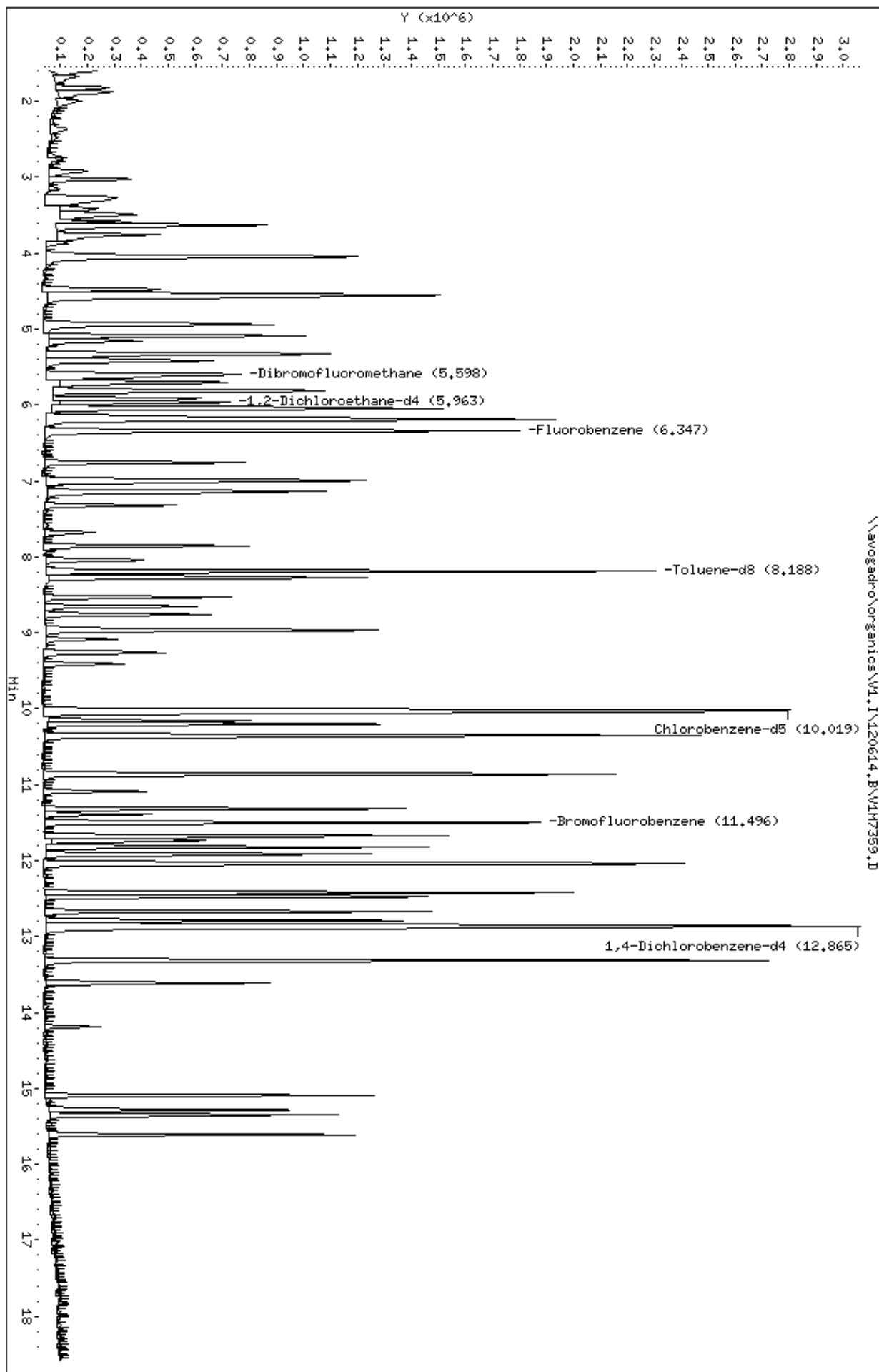
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
75 2-Chlorotoluene	126	11.919	11.928 (0.927)		320106		20.0000	21
76 1,3,5-Trimethylbenzene	105	12.037	12.036 (0.936)		885291		20.0000	20
77 4-Chlorotoluene	126	12.047	12.056 (0.936)		331891		20.0000	21
78 tert-Butylbenzene	119	12.421	12.430 (0.966)		1004085		20.0000	21
79 1,2,4-Trimethylbenzene	105	12.470	12.480 (0.969)		898668		20.0000	20
M 81 Xylene (Total)	106				1326864		60.0000	60
80 sec-Butylbenzene	105	12.677	12.686 (0.985)		1205803		20.0000	20
82 1,3-Dichlorobenzene	146	12.795	12.804 (0.995)		717332		20.0000	21
83 4-Isopropyltoluene	119	12.845	12.854 (0.998)		1022600		20.0000	21
* 84 1,4-Dichlorobenzene-d4	152	12.864	12.873 (1.000)		949027		50.0000	
85 1,4-Dichlorobenzene	146	12.894	12.903 (1.002)		716859		20.0000	21
86 n-Butylbenzene	91	13.317	13.316 (1.035)		917891		20.0000	21
87 1,2-Dichlorobenzene	146	13.317	13.326 (1.035)		677347		20.0000	21
88 1,2-Dibromo-3-chloropropane	75	14.184	14.183 (1.103)		48353		20.0000	18
128 1,3,5-Trichlorobenzene	180	15.099	15.089 (2.379)		515059		20.0000	21(A)
89 1,2,4-Trichlorobenzene	180	15.099	15.089 (1.174)		515059		20.0000	21
90 Hexachlorobutadiene	225	15.286	15.286 (1.188)		214181		20.0000	21
91 Naphthalene	128	15.355	15.355 (1.194)		980668		20.0000	21
92 1,2,3-Trichlorobenzene	180	15.611	15.611 (1.214)		462494		20.0000	21

QC Flag Legend

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

Data File: \\avogadro\organics\V1.I\120614.B\11H7359.D
Date : 14-JUN-2012 16:10
Client ID: VSTD0201P
Sample Info: 5HL,VSTD0201P,VSTD0201P
Purge Volume: 5.0
Column phase: DB-624

Instrument: V1.i
Operator: V1 SRC: V1
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\120614.B\V1M7361.D
Report Date: 15-Jun-2012 14:15

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
Data file : \\avogadro\organics\V1.I\120614.B\V1M7361.D
Lab Smp Id: VICV0501P Client Smp ID: VICV0501P
Inj Date : 14-JUN-2012 17:34
Operator : V1 SRC: V1 Inst ID: V1.i
Smp Info : 5ML,VICV0501P,VICV0501P
Misc Info :
Comment :
Method : \\avogadro\organics\V1.I\120614.B\v18260GH.m
Meth Date : 15-Jun-2012 14:12 adatta Quant Type: ISTD
Cal Date : 14-JUN-2012 14:47 Cal File: V1M7356.D
Als bottle: 12 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/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.679	1.678 (0.265)		293526	50.0000	52
2 Chloromethane	50	1.875	1.865 (0.296)		807232	50.0000	57
3 Vinyl Chloride	62	1.994	1.993 (0.314)		432870	50.0000	55
4 Bromomethane	94	2.358	2.358 (0.372)		204391	50.0000	55
5 Chloroethane	64	2.466	2.614 (0.389)		181071	50.0000	62
6 Trichlorofluoromethane	101	2.732	2.732 (0.431)		212602	50.0000	59
127 Ethanol	46	2.909	2.919 (0.459)		209031	5000.00	4900
7 Ether	59	3.018	3.027 (0.476)		378736	50.0000	50
8 Acrolein	56	3.146	3.155 (0.496)		99584	250.000	240
9 1,1-Dichloroethene	96	3.264	3.264 (0.514)		385273	50.0000	58
10 1,1,2-Trichloro-1,2,2-trifluo	101	3.283	3.293 (0.517)		309131	50.0000	53
11 Acetone	58	3.303	3.313 (0.521)		47963	50.0000	55(Q)
12 Iodomethane	142	3.411	3.421 (0.538)		1079323	50.0000	55
13 Carbon Disulfide	76	3.490	3.490 (0.550)		1731344	50.0000	52
14 Acetonitrile	40	3.589	3.598 (0.566)		721024	500.000	520
15 Methyl Acetate	43	3.648	3.657 (0.575)		625888	50.0000	45
16 Methylene Chloride	84	3.756	3.756 (0.592)		625785	50.0000	56
17 tert-Butanol	59	3.864	3.874 (0.609)		137092	100.000	99
18 Acrylonitrile	53	4.002	4.002 (0.631)		247435	50.0000	48
20 Methyl tert-butyl ether	73	4.051	4.051 (0.638)		1565021	50.0000	50
19 trans-1,2-Dichloroethene	96	4.051	4.051 (0.638)		523624	50.0000	51
21 1,1-Dichloroethane	63	4.485	4.484 (0.707)		1073613	50.0000	49
22 Vinyl acetate	43	4.544	4.544 (0.716)		3179723	50.0000	49

Data File: \\avogadro\organics\V1.I\120614.B\V1M7361.D
Report Date: 15-Jun-2012 14:15

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====		=====	=====	=====	=====	=====	=====	=====
23 Diisopropyl Ether	45			4.563	4.563 (0.719)		3028509	50.0000	49
24 Ethyl tert-butyl ether	59			4.938	4.947 (0.778)		2054880	50.0000	49
M 27 1,2-dichloroethene, (Total)	100						1124267	100.000	97
25 cis-1,2-Dichloroethene	96			5.095	5.095 (0.803)		600643	50.0000	46
26 2,2-Dichloropropane	77			5.095	5.095 (0.803)		423032	50.0000	47
28 2-Butanone	72			5.095	5.105 (0.803)		61207	50.0000	46(Q)
29 Bromochloromethane	128			5.341	5.351 (0.842)		391581	50.0000	51
30 Tetrahydrofuran	72			5.400	5.400 (0.851)		149300	100.000	100
31 Chloroform	83			5.430	5.430 (0.856)		937797	50.0000	49
\$ 32 Dibromofluoromethane	113			5.597	5.607 (0.882)		427407	50.0000	49
33 1,1,1-Trichloroethane	97			5.637	5.646 (0.888)		540688	50.0000	46
34 Cyclohexane	56			5.706	5.715 (0.899)		964417	50.0000	47
36 Carbon Tetrachloride	117			5.824	5.824 (0.918)		491805	50.0000	46
35 1,1-Dichloropropene	110			5.814	5.824 (0.916)		257803	50.0000	48
\$ 37 1,2-Dichloroethane-d4	102			5.971	5.971 (0.941)		80973	50.0000	46
38 Benzene	78			6.040	6.050 (0.952)		2243603	50.0000	49
39 1,2-Dichloroethane	62			6.050	6.345 (0.953)		756877	50.0000	50
40 tert-Amyl methyl ether	73			6.168	6.168 (0.972)		1764947	50.0000	49
* 41 Fluorobenzene	96			6.346	6.355 (1.000)		1566368	50.0000	
42 Trichloroethene	130			6.759	6.769 (1.065)		641293	50.0000	46
43 Methylcyclohexane	83			6.995	6.995 (1.102)		776487	50.0000	44
44 1,2-Dichloropropane	63			7.015	7.015 (1.106)		646728	50.0000	49
46 Dibromomethane	93			7.153	7.143 (1.127)		389340	50.0000	50
47 1,4-Dioxane	88			7.173	7.172 (1.130)		117868	1000.00	1000
48 Bromodichloromethane	83			7.330	7.330 (1.155)		747040	50.0000	48
45 2-Chloroethyl vinyl ether	63			7.685	7.684 (1.211)		192475	50.0000	47
49 cis-1,3-Dichloropropene	75			7.862	7.862 (1.239)		1008793	50.0000	48
50 4-Methyl-2-pentanone	43			8.049	8.049 (1.268)		825739	50.0000	47
\$ 51 Toluene-d8	98			8.197	8.196 (0.817)		1516177	50.0000	51
52 Toluene	91			8.275	8.285 (1.304)		2136496	50.0000	46
53 trans-1,3-Dichloropropene	75			8.541	8.541 (1.346)		834833	50.0000	47
54 1,1,2-Trichloroethane	97			8.768	8.768 (1.382)		507666	50.0000	50
55 Tetrachloroethene	164			8.965	8.964 (0.894)		550752	50.0000	44
56 1,3-Dichloropropane	76			8.984	8.984 (0.896)		870766	50.0000	50
57 2-Hexanone	43			9.083	9.092 (0.906)		582335	50.0000	53
58 Dibromochloromethane	129			9.270	8.964 (0.924)		670669	50.0000	50
59 1,2-Dibromoethane	107			9.418	9.417 (0.939)		536131	50.0000	48
* 60 Chlorobenzene-d5	117			10.028	10.028 (1.000)		1284052	50.0000	
63 1-Chlorohexane	91			10.038	10.038 (1.001)		639889	50.0000	43
61 Chlorobenzene	112			10.067	10.067 (1.004)		1467598	50.0000	48
62 1,1,1,2-Tetrachloroethane	131			10.166	10.166 (1.014)		557232	50.0000	46
64 Ethylbenzene	106			10.205	10.215 (1.018)		672391	50.0000	46
65 m,p-Xylene	106			10.363	10.363 (1.033)		1725160	100.000	94
66 o-Xylene	106			10.865	10.865 (1.083)		833060	50.0000	44
67 Styrene	104			10.875	10.884 (1.084)		1497672	50.0000	47
68 Bromoform	173			11.091	11.101 (1.106)		487782	50.0000	47
69 Isopropylbenzene	105			11.328	11.328 (1.130)		1932755	50.0000	44
126 trans-1,4-Dichloro-2-butene	75			11.397	11.505 (1.136)		242870	50.0000	48
\$ 70 Bromofluorobenzene	95			11.505	11.505 (1.147)		533335	50.0000	47
72 Bromobenzene	156			11.682	11.682 (0.907)		807006	50.0000	45
71 1,1,2,2-Tetrachloroethane	83			11.672	11.682 (0.907)		702275	50.0000	47
73 1,2,3-Trichloropropane	75			11.731	11.731 (0.911)		789201	50.0000	48
74 n-Propylbenzene	120			11.830	11.830 (0.919)		567051	50.0000	44
75 2-Chlorotoluene	126			11.918	11.928 (0.926)		594146	50.0000	45

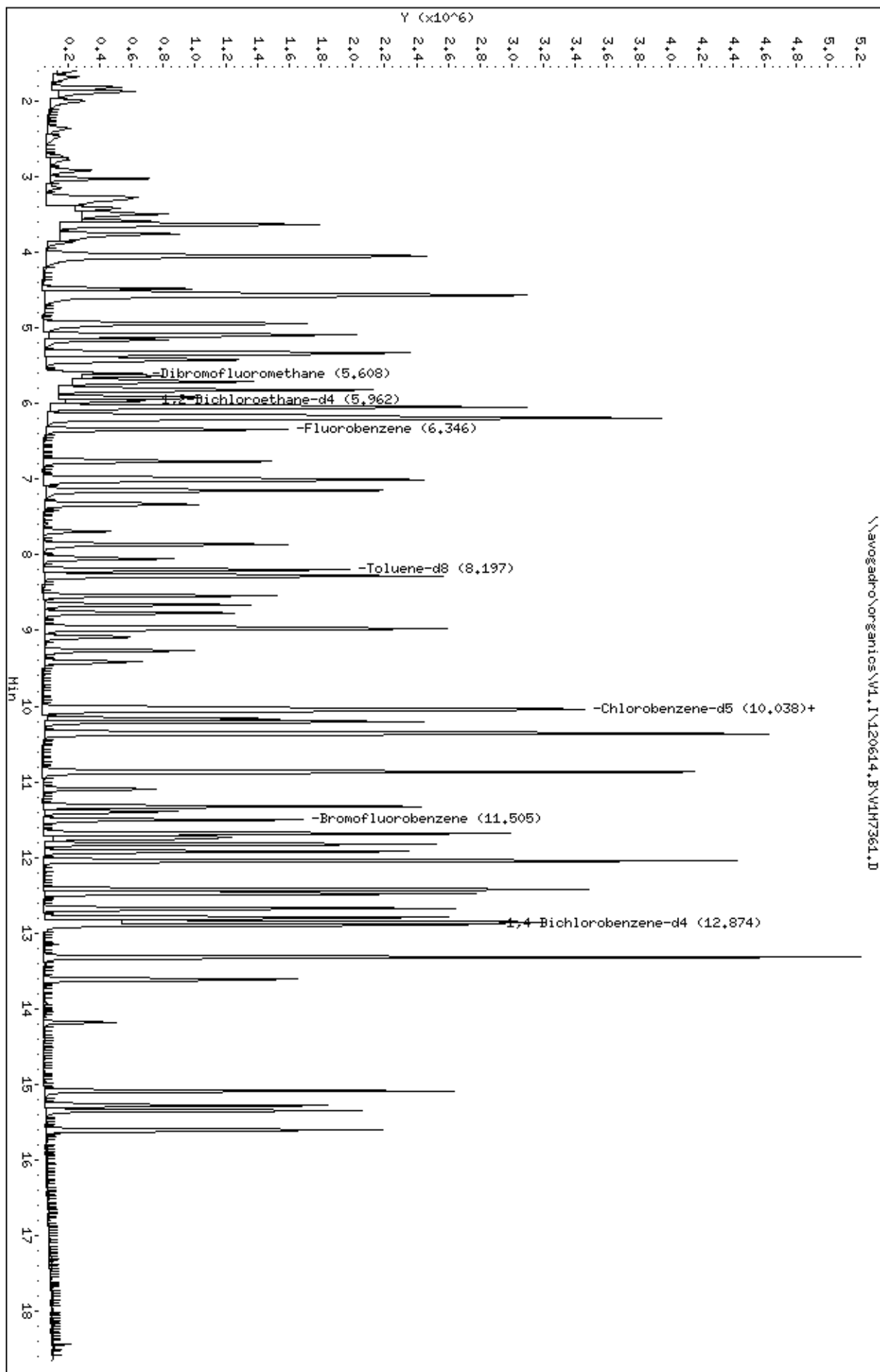
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
76 1,3,5-Trimethylbenzene	105	12.037	12.036	(0.935)	1627595		50.0000	44
77 4-Chlorotoluene	126	12.056	12.056	(0.937)	595106		50.0000	44
78 tert-Butylbenzene	119	12.421	12.430	(0.965)	1761916		50.0000	43
79 1,2,4-Trimethylbenzene	105	12.480	12.480	(0.969)	1672068		50.0000	44
M 81 Xylene (Total)	106				2558220		150.000	140
80 sec-Butylbenzene	105	12.677	12.686	(0.985)	2162500		50.0000	43
82 1,3-Dichlorobenzene	146	12.795	12.804	(0.994)	1317233		50.0000	45
83 4-Isopropyltoluene	119	12.844	12.854	(0.998)	1841610		50.0000	44
* 84 1,4-Dichlorobenzene-d4	152	12.874	12.873	(1.000)	808274		50.0000	
85 1,4-Dichlorobenzene	146	12.903	12.903	(1.002)	1339038		50.0000	45
86 n-Butylbenzene	91	13.317	13.316	(1.034)	1702510		50.0000	45
87 1,2-Dichlorobenzene	146	13.326	13.326	(1.035)	1319230		50.0000	47
88 1,2-Dibromo-3-chloropropane	75	14.183	14.183	(1.102)	103939		50.0000	46
128 1,3,5-Trichlorobenzene	180	15.089	15.089	(2.378)	1017707		50.0000	48(A)
89 1,2,4-Trichlorobenzene	180	15.089	15.089	(1.172)	1017707		50.0000	49
90 Hexachlorobutadiene	225	15.276	15.286	(1.187)	402113		50.0000	46
91 Naphthalene	128	15.355	15.355	(1.193)	1956823		50.0000	49
92 1,2,3-Trichlorobenzene	180	15.611	15.611	(1.213)	922476		50.0000	49

QC Flag Legend

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

Data File: \\avogadro\organics\VL1\120614.B\VLH7361.D
Date : 14-JUN-2012 17:34
Client ID: VICV0501P
Sample Info: 5HL,VICV0501P,VICV0501P
Purge Volume: 5.0
Column phase: DB-624

Instrument: VL.i
Operator: VL SRC: VL
Column diameter: 0.25



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

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Instrument ID: V1 Calibration Date: 06/18/2012 Time: 12:40

Lab File ID: V1M7414.D Init. Calib. Date(s): 06/14/2012 06/14/2012

EPA Sample No.(VSTD####) VSTD0501R Init. Calib. Time(s): 13:51 16:10

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
Chloromethane	0.450	0.411	0.010	-8.7	20.0
Vinyl chloride	0.252	0.238	0.010	-5.3	20.0
Bromomethane	0.119	0.105	0.010	-11.5	20.0
Chloroethane	0.082	0.092	0.010	13.1	20.0
Trichlorofluoromethane	0.115	0.120	0.010	4.4	20.0
1,1-Dichloroethene	0.211	0.226	0.100	6.9	20.0
Acetone	0.031	0.034	0.010	7.5	20.0
Carbon disulfide	1.052	0.976	0.010	-7.2	20.0
Methylene chloride	0.412	0.348	0.010	-15.4	20.0
trans-1,2-Dichloroethene	0.328	0.315	0.010	-3.8	20.0
Methyl tert-butyl ether	1.003	0.939	0.010	-6.3	20.0
1,1-Dichloroethane	0.701	0.678	0.010	-3.2	20.0
Vinyl acetate	2.063	1.958	0.010	-5.1	20.0
2-Butanone	0.042	0.043	0.010	2.4	20.0
cis-1,2-Dichloroethene	0.413	0.390	0.010	-5.7	20.0
Chloroform	0.609	0.583	0.010	-4.2	20.0
1,1,1-Trichloroethane	0.372	0.349	0.010	-6.2	20.0
Carbon tetrachloride	0.342	0.326	0.010	-4.7	20.0
1,2-Dichloroethane	0.488	0.467	0.010	-4.1	20.0
Benzene	1.464	1.410	0.010	-3.7	20.0
Trichloroethene	0.441	0.415	0.010	-6.0	20.0
1,2-Dichloropropane	0.424	0.421	0.010	-0.6	20.0
Bromodichloromethane	0.498	0.458	0.010	-8.1	20.0
cis-1,3-Dichloropropene	0.673	0.651	0.010	-3.4	20.0
4-Methyl-2-pentanone	0.559	0.514	0.010	-8.1	20.0
Toluene	1.468	1.408	0.010	-4.1	20.0
trans-1,3-Dichloropropene	0.569	0.537	0.010	-5.8	20.0
1,1,2-Trichloroethane	0.327	0.312	0.010	-4.5	20.0
Tetrachloroethene	0.482	0.395	0.010	-17.9	20.0
2-Hexanone	0.428	0.387	0.010	-9.6	20.0
Dibromochloromethane	0.519	0.445	0.010	-14.3	20.0
Chlorobenzene	1.184	1.060	0.010	-10.4	20.0
Ethylbenzene	0.573	0.528	0.010	-8.0	20.0
m,p-Xylene	0.712	0.657	0.010	-7.8	20.0
o-Xylene	0.728	0.646	0.010	-11.3	20.0
Xylene (Total)	0.718	0.653	0.010	-9.0	20.0
Styrene	1.237	1.106	0.010	-10.6	20.0
Bromoform	0.407	0.323	0.010	-20.5	20.0
Isopropylbenzene	1.718	1.571	0.300	-8.6	20.0
1,1,2,2-Tetrachloroethane	0.918	0.813	0.300	-11.5	20.0

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

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Instrument ID: V1 Calibration Date: 06/18/2012 Time: 12:40

Lab File ID: V1M7414.D Init. Calib. Date(s): 06/14/2012 06/14/2012

EPA Sample No.(VSTD####) VSTD0501R Init. Calib. Time(s): 13:51 16:10

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
n-Propylbenzene	0.796	0.752	0.010	-5.6	20.0
1,3,5-Trimethylbenzene	2.288	2.193	0.010	-4.1	20.0
tert-Butylbenzene	2.531	2.415	0.010	-4.6	20.0
1,2,4-Trimethylbenzene	2.327	2.173	0.010	-6.6	20.0
sec-Butylbenzene	3.092	3.020	0.010	-2.3	20.0
4-Isopropyltoluene	2.583	2.491	0.010	-3.6	20.0
1,3-Dichlorobenzene	1.812	1.565	0.010	-13.6	20.0
1,4-Dichlorobenzene	1.826	1.588	0.010	-13.0	20.0
n-Butylbenzene	2.344	2.316	0.100	-1.2	20.0
1,2-Dichlorobenzene	1.726	1.516	0.010	-12.1	20.0
Naphthalene	2.485	2.164	0.010	-12.9	20.0
2-Chloroethyl vinyl ether	0.130	0.114	0.010	-12.0	20.0

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

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Instrument ID: V1 Calibration Date: 06/18/2012 Time: 12:40

Lab File ID: V1M7414.D Init. Calib. Date(s): 06/14/2012 06/14/2012

EPA Sample No.(VSTD####) VSTD0501R Init. Calib. Time(s): 13:51 16:10

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	0.276	0.285	0.010	3.1	20.0
1,2-Dichloroethane-d4	0.056	0.057	0.010	1.0	20.0
Toluene-d8	1.164	1.139	0.010	-2.2	20.0
Bromofluorobenzene	0.439	0.456	0.010	3.8	20.0

Data File: \\avogadro\organics\V1.I\120614.B\V1M7361.D
Report Date: 15-Jun-2012 14:15

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
Data file : \\avogadro\organics\V1.I\120614.B\V1M7361.D
Lab Smp Id: VICV0501P Client Smp ID: VICV0501P
Inj Date : 14-JUN-2012 17:34
Operator : V1 SRC: V1 Inst ID: V1.i
Smp Info : 5ML,VICV0501P,VICV0501P
Misc Info :
Comment :
Method : \\avogadro\organics\V1.I\120614.B\v18260GH.m
Meth Date : 15-Jun-2012 14:12 adatta Quant Type: ISTD
Cal Date : 14-JUN-2012 14:47 Cal File: V1M7356.D
Als bottle: 12 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/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.679	1.678 (0.265)		293526	50.0000	52
2 Chloromethane	50	1.875	1.865 (0.296)		807232	50.0000	57
3 Vinyl Chloride	62	1.994	1.993 (0.314)		432870	50.0000	55
4 Bromomethane	94	2.358	2.358 (0.372)		204391	50.0000	55
5 Chloroethane	64	2.466	2.614 (0.389)		181071	50.0000	62
6 Trichlorofluoromethane	101	2.732	2.732 (0.431)		212602	50.0000	59
127 Ethanol	46	2.909	2.919 (0.459)		209031	5000.00	4900
7 Ether	59	3.018	3.027 (0.476)		378736	50.0000	50
8 Acrolein	56	3.146	3.155 (0.496)		99584	250.000	240
9 1,1-Dichloroethene	96	3.264	3.264 (0.514)		385273	50.0000	58
10 1,1,2-Trichloro-1,2,2-trifluo	101	3.283	3.293 (0.517)		309131	50.0000	53
11 Acetone	58	3.303	3.313 (0.521)		47963	50.0000	55(Q)
12 Iodomethane	142	3.411	3.421 (0.538)		1079323	50.0000	55
13 Carbon Disulfide	76	3.490	3.490 (0.550)		1731344	50.0000	52
14 Acetonitrile	40	3.589	3.598 (0.566)		721024	500.000	520
15 Methyl Acetate	43	3.648	3.657 (0.575)		625888	50.0000	45
16 Methylene Chloride	84	3.756	3.756 (0.592)		625785	50.0000	56
17 tert-Butanol	59	3.864	3.874 (0.609)		137092	100.000	99
18 Acrylonitrile	53	4.002	4.002 (0.631)		247435	50.0000	48
20 Methyl tert-butyl ether	73	4.051	4.051 (0.638)		1565021	50.0000	50
19 trans-1,2-Dichloroethene	96	4.051	4.051 (0.638)		523624	50.0000	51
21 1,1-Dichloroethane	63	4.485	4.484 (0.707)		1073613	50.0000	49
22 Vinyl acetate	43	4.544	4.544 (0.716)		3179723	50.0000	49

Data File: \\avogadro\organics\V1.I\120614.B\V1M7361.D
Report Date: 15-Jun-2012 14:15

						AMOUNTS		
		QUANT	SIG			CAL -AMT	ON -COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
=====		=====	=====	=====	=====	=====	=====	=====
	23 Diisopropyl Ether	45	4.563	4.563	(0.719)	3028509	50.0000	49
	24 Ethyl tert-butyl ether	59	4.938	4.947	(0.778)	2054880	50.0000	49
M	27 1,2-dichloroethene, (Total)	100				1124267	100.000	97
	25 cis-1,2-Dichloroethene	96	5.095	5.095	(0.803)	600643	50.0000	46
	26 2,2-Dichloropropane	77	5.095	5.095	(0.803)	423032	50.0000	47
	28 2-Butanone	72	5.095	5.105	(0.803)	61207	50.0000	46(Q)
	29 Bromochloromethane	128	5.341	5.351	(0.842)	391581	50.0000	51
	30 Tetrahydrofuran	72	5.400	5.400	(0.851)	149300	100.000	100
	31 Chloroform	83	5.430	5.430	(0.856)	937797	50.0000	49
\$	32 Dibromofluoromethane	113	5.597	5.607	(0.882)	427407	50.0000	49
	33 1,1,1-Trichloroethane	97	5.637	5.646	(0.888)	540688	50.0000	46
	34 Cyclohexane	56	5.706	5.715	(0.899)	964417	50.0000	47
	36 Carbon Tetrachloride	117	5.824	5.824	(0.918)	491805	50.0000	46
	35 1,1-Dichloropropene	110	5.814	5.824	(0.916)	257803	50.0000	48
\$	37 1,2-Dichloroethane-d4	102	5.971	5.971	(0.941)	80973	50.0000	46
	38 Benzene	78	6.040	6.050	(0.952)	2243603	50.0000	49
	39 1,2-Dichloroethane	62	6.050	6.345	(0.953)	756877	50.0000	50
	40 tert-Amyl methyl ether	73	6.168	6.168	(0.972)	1764947	50.0000	49
*	41 Fluorobenzene	96	6.346	6.355	(1.000)	1566368	50.0000	
	42 Trichloroethene	130	6.759	6.769	(1.065)	641293	50.0000	46
	43 Methylcyclohexane	83	6.995	6.995	(1.102)	776487	50.0000	44
	44 1,2-Dichloropropane	63	7.015	7.015	(1.106)	646728	50.0000	49
	46 Dibromomethane	93	7.153	7.143	(1.127)	389340	50.0000	50
	47 1,4-Dioxane	88	7.173	7.172	(1.130)	117868	1000.00	1000
	48 Bromodichloromethane	83	7.330	7.330	(1.155)	747040	50.0000	48
	45 2-Chloroethyl vinyl ether	63	7.685	7.684	(1.211)	192475	50.0000	47
	49 cis-1,3-Dichloropropene	75	7.862	7.862	(1.239)	1008793	50.0000	48
	50 4-Methyl-2-pentanone	43	8.049	8.049	(1.268)	825739	50.0000	47
\$	51 Toluene-d8	98	8.197	8.196	(0.817)	1516177	50.0000	51
	52 Toluene	91	8.275	8.285	(1.304)	2136496	50.0000	46
	53 trans-1,3-Dichloropropene	75	8.541	8.541	(1.346)	834833	50.0000	47
	54 1,1,2-Trichloroethane	97	8.768	8.768	(1.382)	507666	50.0000	50
	55 Tetrachloroethene	164	8.965	8.964	(0.894)	550752	50.0000	44
	56 1,3-Dichloropropane	76	8.984	8.984	(0.896)	870766	50.0000	50
	57 2-Hexanone	43	9.083	9.092	(0.906)	582335	50.0000	53
	58 Dibromochloromethane	129	9.270	8.964	(0.924)	670669	50.0000	50
	59 1,2-Dibromoethane	107	9.418	9.417	(0.939)	536131	50.0000	48
*	60 Chlorobenzene-d5	117	10.028	10.028	(1.000)	1284052	50.0000	
	63 1-Chlorohexane	91	10.038	10.038	(1.001)	639889	50.0000	43
	61 Chlorobenzene	112	10.067	10.067	(1.004)	1467598	50.0000	48
	62 1,1,1,2-Tetrachloroethane	131	10.166	10.166	(1.014)	557232	50.0000	46
	64 Ethylbenzene	106	10.205	10.215	(1.018)	672391	50.0000	46
	65 m,p-Xylene	106	10.363	10.363	(1.033)	1725160	100.000	94
	66 o-Xylene	106	10.865	10.865	(1.083)	833060	50.0000	44
	67 Styrene	104	10.875	10.884	(1.084)	1497672	50.0000	47
	68 Bromoform	173	11.091	11.101	(1.106)	487782	50.0000	47
	69 Isopropylbenzene	105	11.328	11.328	(1.130)	1932755	50.0000	44
	126 trans-1,4-Dichloro-2-butene	75	11.397	11.505	(1.136)	242870	50.0000	48
\$	70 Bromofluorobenzene	95	11.505	11.505	(1.147)	533335	50.0000	47
	72 Bromobenzene	156	11.682	11.682	(0.907)	807006	50.0000	45
	71 1,1,2,2-Tetrachloroethane	83	11.672	11.682	(0.907)	702275	50.0000	47
	73 1,2,3-Trichloropropane	75	11.731	11.731	(0.911)	789201	50.0000	48
	74 n-Propylbenzene	120	11.830	11.830	(0.919)	567051	50.0000	44
	75 2-Chlorotoluene	126	11.918	11.928	(0.926)	594146	50.0000	45

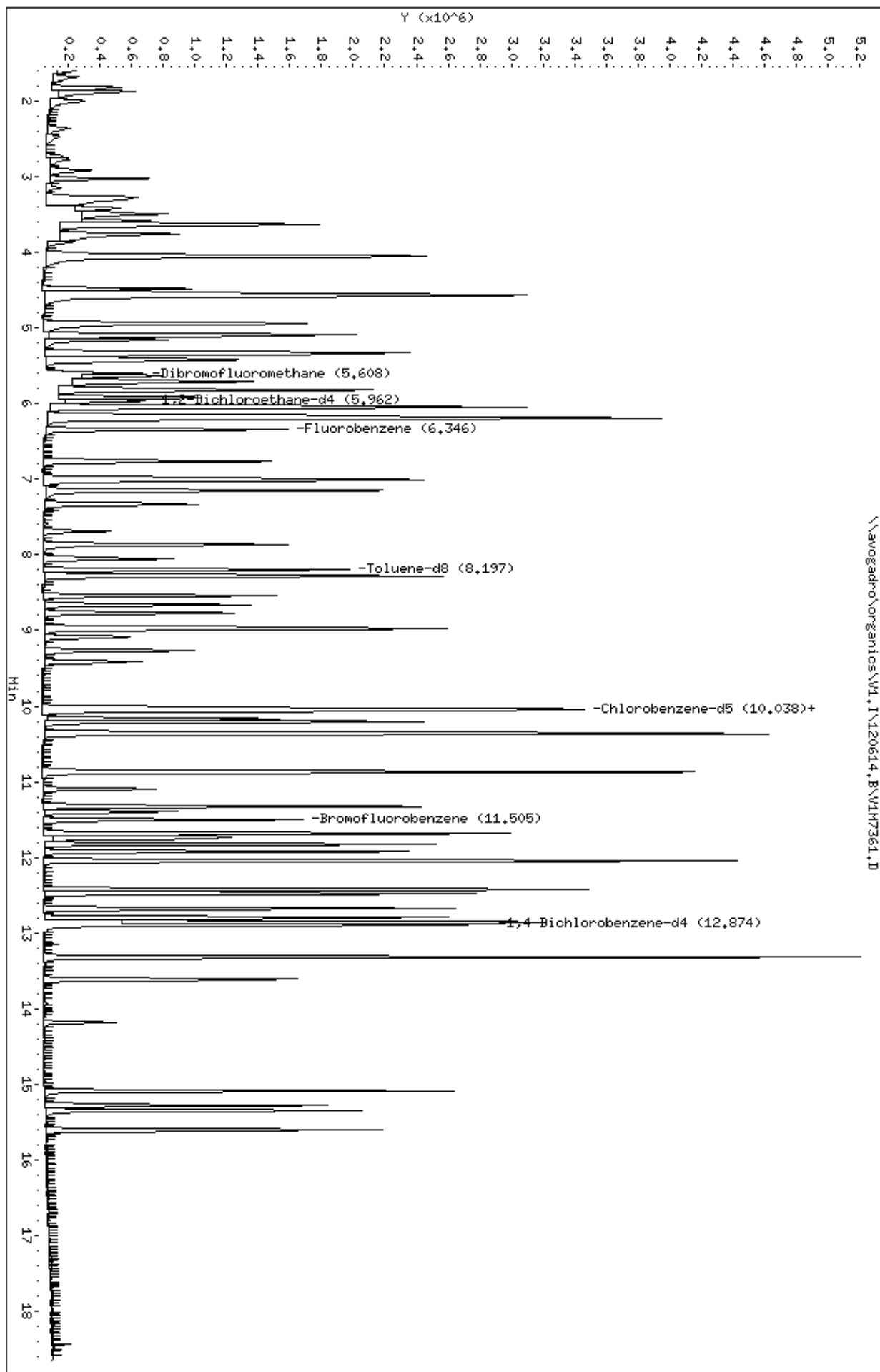
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
76 1,3,5-Trimethylbenzene	105	12.037	12.036	(0.935)	1627595		50.0000	44
77 4-Chlorotoluene	126	12.056	12.056	(0.937)	595106		50.0000	44
78 tert-Butylbenzene	119	12.421	12.430	(0.965)	1761916		50.0000	43
79 1,2,4-Trimethylbenzene	105	12.480	12.480	(0.969)	1672068		50.0000	44
M 81 Xylene (Total)	106				2558220		150.000	140
80 sec-Butylbenzene	105	12.677	12.686	(0.985)	2162500		50.0000	43
82 1,3-Dichlorobenzene	146	12.795	12.804	(0.994)	1317233		50.0000	45
83 4-Isopropyltoluene	119	12.844	12.854	(0.998)	1841610		50.0000	44
* 84 1,4-Dichlorobenzene-d4	152	12.874	12.873	(1.000)	808274		50.0000	
85 1,4-Dichlorobenzene	146	12.903	12.903	(1.002)	1339038		50.0000	45
86 n-Butylbenzene	91	13.317	13.316	(1.034)	1702510		50.0000	45
87 1,2-Dichlorobenzene	146	13.326	13.326	(1.035)	1319230		50.0000	47
88 1,2-Dibromo-3-chloropropane	75	14.183	14.183	(1.102)	103939		50.0000	46
128 1,3,5-Trichlorobenzene	180	15.089	15.089	(2.378)	1017707		50.0000	48(A)
89 1,2,4-Trichlorobenzene	180	15.089	15.089	(1.172)	1017707		50.0000	49
90 Hexachlorobutadiene	225	15.276	15.286	(1.187)	402113		50.0000	46
91 Naphthalene	128	15.355	15.355	(1.193)	1956823		50.0000	49
92 1,2,3-Trichlorobenzene	180	15.611	15.611	(1.213)	922476		50.0000	49

QC Flag Legend

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

Data File: \\avogadro\organics\VL.I\120614.B\VLH7361.D
Date : 14-JUN-2012 17:34
Client ID: VICV0501P
Sample Info: 5HL,VICV0501P,VICV0501P
Purge Volume: 5.0
Column phase: DB-624

Instrument: VL.i
Operator: VL SRC: VL
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\120618.B\V1M7414.D
 Report Date: 19-Jun-2012 12:25

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
 Data file : \\avogadro\organics\V1.I\120618.B\V1M7414.D
 Lab Smp Id: VSTD0501R Client Smp ID: VSTD0501R
 Inj Date : 18-JUN-2012 12:40
 Operator : V1 SRC: V1 Inst ID: V1.i
 Smp Info : 5ML,VSTD0501R,VSTD0501R
 Misc Info :
 Comment :
 Method : \\avogadro\organics\V1.I\120618.B\v18260GH.m
 Meth Date : 19-Jun-2012 12:22 adatta Quant Type: ISTD
 Cal Date : 14-JUN-2012 14:47 Cal File: V1M7356.D
 Als bottle: 5 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: TARGET105

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 5 / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
1 Dichlorodifluoromethane	85	1.688	1.679 (0.266)		294751	50.0000	40
2 Chloromethane	50	1.885	1.876 (0.297)		830329	50.0000	46
3 Vinyl Chloride	62	2.003	1.994 (0.316)		481709	50.0000	47
4 Bromomethane	94	2.358	2.369 (0.372)		212775	50.0000	44
5 Chloroethane	64	2.476	2.467 (0.390)		186825	50.0000	50
6 Trichlorofluoromethane	101	2.722	2.733 (0.429)		242770	50.0000	52
127 Ethanol	46	2.909	2.920 (0.459)		228409	5000.00	4200
7 Ether	59	3.018	3.028 (0.476)		473903	50.0000	48
8 Acrolein	56	3.146	3.146 (0.496)		137694	250.000	250
9 1,1-Dichloroethene	96	3.274	3.265 (0.516)		456713	50.0000	53
10 1,1,2-Trichloro-1,2,2-trifluo	101	3.293	3.284 (0.519)		416131	50.0000	55
11 Acetone	58	3.313	3.314 (0.522)		67730	50.0000	61(Q)
12 Iodomethane	142	3.411	3.422 (0.538)		1105892	50.0000	44
13 Carbon Disulfide	76	3.490	3.501 (0.550)		1973891	50.0000	46
14 Acetonitrile	40	3.589	3.589 (0.566)		852981	500.000	470
15 Methyl Acetate	43	3.648	3.658 (0.575)		793691	50.0000	44
16 Methylene Chloride	84	3.756	3.757 (0.592)		704206	50.0000	48
17 tert-Butanol	59	3.864	3.875 (0.609)		157295	100.000	88
18 Acrylonitrile	53	4.002	4.003 (0.631)		310244	50.0000	46
20 Methyl tert-butyl ether	73	4.051	4.052 (0.638)		1898814	50.0000	47

Data File: \\avogadro\organics\V1.I\120618.B\V1M7414.D
Report Date: 19-Jun-2012 12:25

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
19 trans-1,2-Dichloroethene	96	4.042	4.052 (0.637)		636885		50.0000	48
21 1,1-Dichloroethane	63	4.475	4.485 (0.705)		1371061		50.0000	48
22 Vinyl acetate	43	4.534	4.535 (0.715)		3957831		50.0000	47
23 Diisopropyl Ether	45	4.554	4.564 (0.718)		3817938		50.0000	48
24 Ethyl tert-butyl ether	59	4.938	4.948 (0.778)		2651167		50.0000	49
M 27 1,2-dichloroethene, (Total)	100				1424822		100.000	95
25 cis-1,2-Dichloroethene	96	5.085	5.096 (0.801)		787937		50.0000	47
26 2,2-Dichloropropane	77	5.085	5.096 (0.801)		529474		50.0000	46
28 2-Butanone	72	5.095	5.106 (0.803)		87359		50.0000	51
29 Bromochloromethane	128	5.341	5.352 (0.842)		461524		50.0000	47
30 Tetrahydrofuran	72	5.400	5.401 (0.851)		193703		100.000	110
31 Chloroform	83	5.430	5.431 (0.856)		1178596		50.0000	48
\$ 32 Dibromofluoromethane	113	5.597	5.598 (0.882)		575429		50.0000	52
33 1,1,1-Trichloroethane	97	5.627	5.647 (0.887)		706256		50.0000	47
34 Cyclohexane	56	5.706	5.706 (0.899)		1330793		50.0000	51
36 Carbon Tetrachloride	117	5.824	5.825 (0.918)		658310		50.0000	48
35 1,1-Dichloropropene	110	5.814	5.825 (0.916)		347050		50.0000	50
\$ 37 1,2-Dichloroethane-d4	102	5.962	5.972 (0.939)		114263		50.0000	50
38 Benzene	78	6.040	6.041 (0.952)		2851024		50.0000	48
39 1,2-Dichloroethane	62	6.050	6.051 (0.953)		945100		50.0000	48
40 tert-Amyl methyl ether	73	6.158	6.169 (0.971)		2234385		50.0000	48
* 41 Fluorobenzene	96	6.346	6.346 (1.000)		2021645		50.0000	
42 Trichloroethene	130	6.759	6.770 (1.065)		838003		50.0000	47
43 Methylcyclohexane	83	6.986	6.996 (1.101)		1151067		50.0000	50
44 1,2-Dichloropropane	63	7.005	7.016 (1.104)		850896		50.0000	50
46 Dibromomethane	93	7.143	7.144 (1.126)		491273		50.0000	49
47 1,4-Dioxane	88	7.163	7.173 (1.129)		116920		1000.00	810
48 Bromodichloromethane	83	7.320	7.331 (1.154)		926032		50.0000	46
45 2-Chloroethyl vinyl ether	63	7.685	7.685 (1.211)		231407		50.0000	44
49 cis-1,3-Dichloropropene	75	7.862	7.863 (1.239)		1315350		50.0000	48
50 4-Methyl-2-pentanone	43	8.039	8.050 (1.267)		1038846		50.0000	46
\$ 51 Toluene-d8	98	8.197	8.197 (0.817)		2111813		50.0000	49
52 Toluene	91	8.275	8.276 (1.304)		2846528		50.0000	48
53 trans-1,3-Dichloropropene	75	8.541	8.532 (1.346)		1084684		50.0000	47
54 1,1,2-Trichloroethane	97	8.768	8.769 (1.382)		631007		50.0000	48
55 Tetrachloroethene	164	8.965	8.965 (0.894)		732978		50.0000	41
56 1,3-Dichloropropane	76	8.974	8.975 (0.895)		1123571		50.0000	45
57 2-Hexanone	43	9.083	9.084 (0.906)		718442		50.0000	45
58 Dibromochloromethane	129	9.260	9.271 (0.923)		824617		50.0000	43
59 1,2-Dibromoethane	107	9.408	9.418 (0.938)		726090		50.0000	45
* 60 Chlorobenzene-d5	117	10.028	10.019 (1.000)		1854594		50.0000	
63 1-Chlorohexane	91	10.038	10.039 (1.001)		1003447		50.0000	47
61 Chlorobenzene	112	10.067	10.058 (1.004)		1966432		50.0000	45
62 1,1,1,2-Tetrachloroethane	131	10.166	10.167 (1.014)		728106		50.0000	42
64 Ethylbenzene	106	10.215	10.206 (1.019)		978538		50.0000	46
65 m,p-Xylene	106	10.363	10.364 (1.033)		2435443		100.000	92
66 o-Xylene	106	10.865	10.866 (1.083)		1198303		50.0000	44
67 Styrene	104	10.885	10.876 (1.085)		2052028		50.0000	45
68 Bromoform	173	11.101	11.102 (1.107)		599613		50.0000	40
69 Isopropylbenzene	105	11.328	11.329 (1.130)		2913776		50.0000	46
126 trans-1,4-Dichloro-2-butene	75	11.505	11.506 (1.147)		366345		50.0000	50(Q)
\$ 70 Bromofluorobenzene	95	11.505	11.506 (1.147)		844821		50.0000	52
72 Bromobenzene	156	11.692	11.683 (0.908)		995330		50.0000	41
71 1,1,2,2-Tetrachloroethane	83	11.682	11.673 (0.907)		893723		50.0000	44

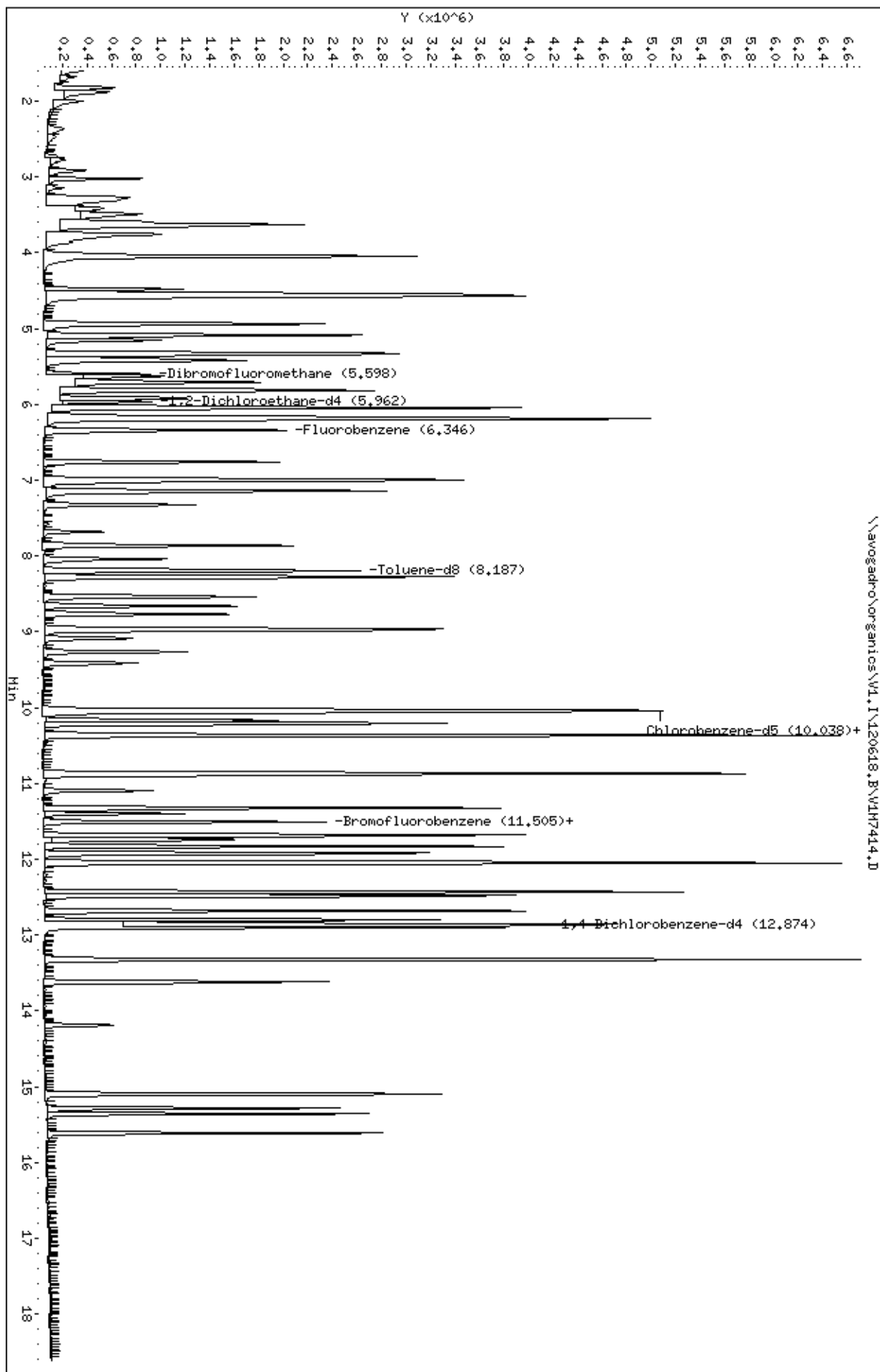
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
73 1,2,3-Trichloropropane	75	11.731	11.732 (0.911)		1017263		50.0000	46
74 n-Propylbenzene	120	11.830	11.831 (0.919)		826791		50.0000	47
75 2-Chlorotoluene	126	11.928	11.929 (0.927)		801952		50.0000	45
76 1,3,5-Trimethylbenzene	105	12.037	12.037 (0.935)		2412575		50.0000	48
77 4-Chlorotoluene	126	12.056	12.057 (0.937)		834846		50.0000	45
78 tert-Butylbenzene	119	12.430	12.431 (0.966)		2655786		50.0000	48
79 1,2,4-Trimethylbenzene	105	12.480	12.481 (0.969)		2389775		50.0000	47
M 81 Xylene (Total)	106				3633746		150.000	140
80 sec-Butylbenzene	105	12.686	12.687 (0.985)		3321714		50.0000	49
82 1,3-Dichlorobenzene	146	12.805	12.805 (0.995)		1721464		50.0000	43
83 4-Isopropyltoluene	119	12.854	12.855 (0.998)		2739609		50.0000	48
* 84 1,4-Dichlorobenzene-d4	152	12.874	12.874 (1.000)		1099930		50.0000	
85 1,4-Dichlorobenzene	146	12.903	12.904 (1.002)		1746496		50.0000	43
86 n-Butylbenzene	91	13.317	13.317 (1.034)		2546895		50.0000	49
87 1,2-Dichlorobenzene	146	13.326	13.327 (1.035)		1668009		50.0000	44
88 1,2-Dibromo-3-chloropropane	75	14.183	14.194 (1.102)		138181		50.0000	45(Q)
128 1,3,5-Trichlorobenzene	180	15.099	15.100 (2.379)		1232241		50.0000	45(A)
89 1,2,4-Trichlorobenzene	180	15.099	15.100 (1.173)		1232241		50.0000	44
90 Hexachlorobutadiene	225	15.286	15.287 (1.187)		492914		50.0000	42
91 Naphthalene	128	15.355	15.356 (1.193)		2380550		50.0000	44
92 1,2,3-Trichlorobenzene	180	15.611	15.612 (1.213)		1115313		50.0000	44

QC Flag Legend

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

Data File: \\avogadro\organics\VL.I\120618.B\VLH7414.D
Date : 18-JUN-2012 12:40
Client ID: VSTD0501R
Sample Info: 5HL,VSTD0501R,VSTD0501R
Column phase: DB-624

Instrument: VL.i
Operator: VL SRC: VL
Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\V1.I\120614.B\V1M7353.D
 Lab Smp Id: BFB1P Client Smp ID: BFB1P
 Inj Date : 14-JUN-2012 13:24
 Operator : V1 SRC: V1 Inst ID: V1.i
 Smp Info : 2UL,BFB1P,BFB1P
 Misc Info :
 Comment :
 Method : \\avogadro\organics\V1.I\120614.B\bfb8260.m
 Meth Date : 15-Jun-2012 14:12 adatta Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 4 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER

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									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL		TARGET	RANGE	RATIO
					(ug/L)	FINAL			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
11.496	11.496 (0.000)	95	302976				0.00-	100.00	81.82
11.496	11.496 (0.000)	50	58320				15.00-	40.00	19.25
11.496	11.496 (0.000)	75	138816				30.00-	60.00	45.82
11.496	11.496 (0.000)	96	19680				5.00-	9.00	6.50
11.496	11.496 (0.000)	173	0	0.0	0.0	0.0	0.00-	2.00	0.00
11.496	11.496 (0.000)	174	370304				50.00-	0.00	122.22
11.496	11.496 (0.000)	175	27768				5.00-	9.00	7.50
11.496	11.496 (0.000)	176	359296				95.00-	101.00	97.03
11.496	11.496 (0.000)	177	22592				5.00-	9.00	6.29

Date : 14-JUN-2012 13:24

Client ID: BFB1P

Instrument: V1.i

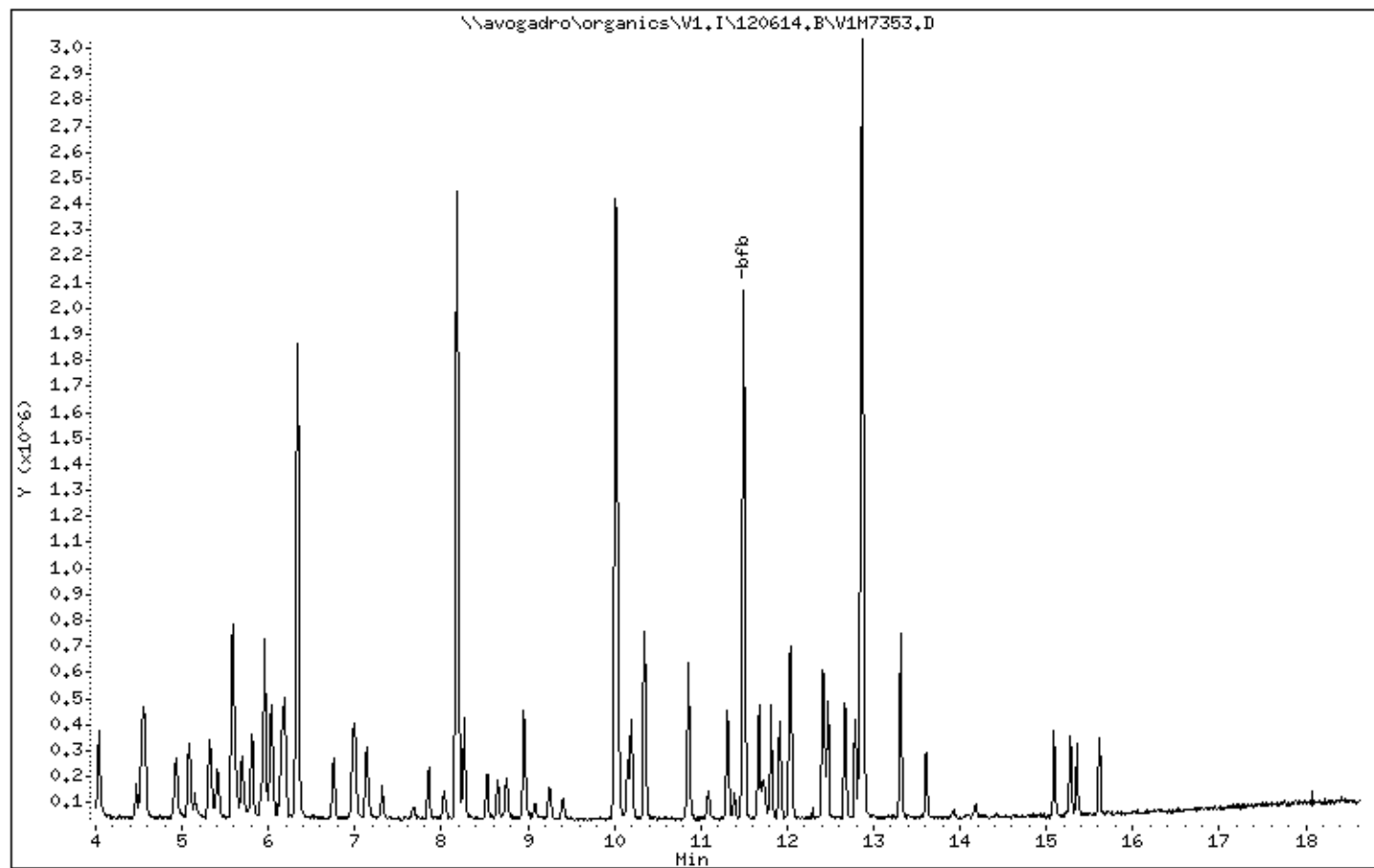
Sample Info: 2UL,BFB1P,BFB1P

Volume Injected (uL): 2.0

Operator: V1 SRC: V1

Column phase: DB-624

Column diameter: 0.25



Date : 14-JUN-2012 13:24

Client ID: BFB1P

Instrument: V1.i

Sample Info: 2UL,BFB1P,BFB1P

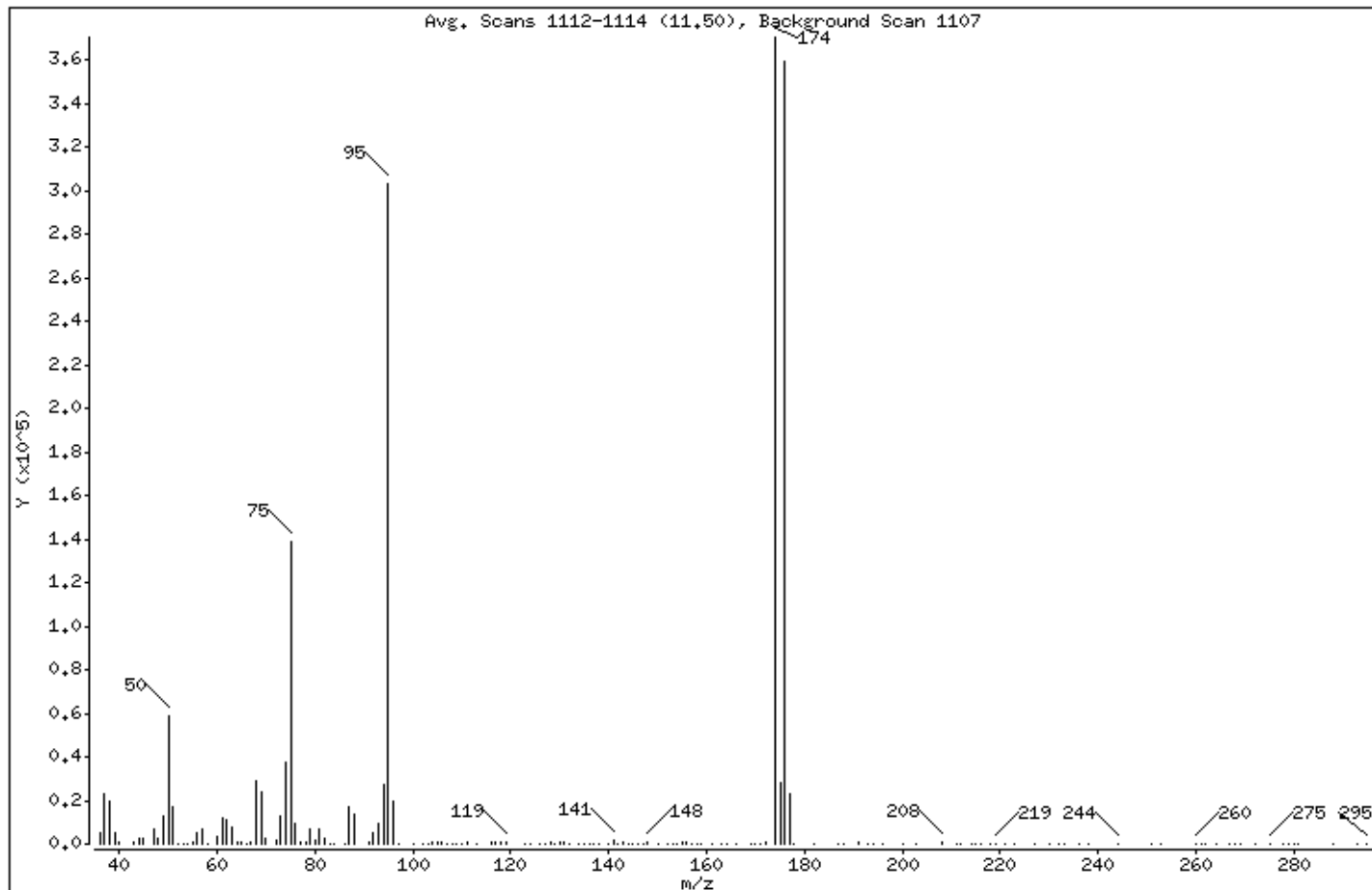
Volume Injected (uL): 2.0

Operator: V1 SRC: V1

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	19.25
75	30.00 - 60.00% of mass 95	45.82
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	122.22
175	5.00 - 9.00% of mass 174	9.17 (7.50)
176	95.00 - 101.00% of mass 174	118.59 (97.03)
177	5.00 - 9.00% of mass 176	7.46 (6.29)

Date : 14-JUN-2012 13:24

Client ID: BFB1P

Instrument: V1.i

Sample Info: 2UL,BFB1P,BFB1P

Volume Injected (uL): 2.0

Operator: V1 SRC: V1

Column phase: DB-624

Column diameter: 0.25

Data File: V1M7353.D

Spectrum: Avg. Scans 1112-1114 (11.50), Background Scan 1107

Location of Maximum: 174.00

Number of points: 159

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.00	4733	81.00	7234	135.00	399	194.00	54
37.00	23096	82.00	2288	136.00	187	196.00	126
38.00	19688	83.00	105	137.00	82	200.00	106
39.00	4855	84.00	329	138.00	64	203.00	89
40.00	872	86.00	144	140.00	176	208.00	1136

43.00	643	87.00	16872	141.00	2065	211.00	111
44.00	2194	88.00	13732	142.00	201	212.00	103
45.00	2147	91.00	772	143.00	1020	214.00	66
47.00	6565	92.00	5522	144.00	52	215.00	55
48.00	2375	93.00	9383	145.00	410	216.00	72

49.00	12971	94.00	27264	146.00	244	218.00	66
50.00	58320	95.00	302976	147.00	343	219.00	158
51.00	16752	96.00	19680	148.00	891	221.00	51
52.00	189	97.00	232	150.00	227	223.00	76
53.00	241	100.00	83	152.00	293	227.00	83

54.00	91	102.00	121	153.00	291	230.00	94
55.00	566	103.00	408	154.00	189	232.00	95
56.00	5343	104.00	461	155.00	569	233.00	111
57.00	6781	105.00	438	156.00	456	236.00	129
58.00	349	106.00	436	157.00	353	238.00	78

60.00	2998	107.00	334	158.00	111	244.00	154
61.00	11926	108.00	84	159.00	288	251.00	93
62.00	11011	109.00	56	161.00	363	253.00	61
63.00	7950	110.00	63	163.00	112	260.00	124
64.00	823	111.00	449	164.00	191	261.00	77

65.00	757	113.00	248	166.00	67	262.00	105
66.00	327	116.00	748	169.00	85	264.00	92
67.00	1092	117.00	741	170.00	164	267.00	77
68.00	28808	118.00	872	171.00	282	268.00	56
69.00	23760	119.00	1015	172.00	522	269.00	60

70.00	2248	123.00	110	174.00	370304	272.00	79
72.00	1798	124.00	85	175.00	27768	275.00	212
73.00	12360	126.00	165	176.00	359296	278.00	51
74.00	37568	127.00	96	177.00	22592	279.00	94
75.00	138816	128.00	972	178.00	194	280.00	146

Date : 14-JUN-2012 13:24

Client ID: BFB1P

Instrument: V1.i

Sample Info: 2UL,BFB1P,BFB1P

Volume Injected (uL): 2.0

Operator: V1 SRC: V1

Column phase: DB-624

Column diameter: 0.25

Data File: V1M7353.D

Spectrum: Avg. Scans 1112-1114 (11.50), Background Scan 1107

Location of Maximum: 174.00

Number of points: 159

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	9203	129.00	118	182.00	51	281.00	149
77.00	955	130.00	791	187.00	71	288.00	58
78.00	624	131.00	630	188.00	108	293.00	127
79.00	6766	132.00	73	191.00	647	295.00	211
80.00	1744	134.00	242	193.00	418		

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\V1.I\120618.B\V1M7413.D
 Lab Smp Id: BFB1R Client Smp ID: BFB1R
 Inj Date : 18-JUN-2012 11:40
 Operator : V1 SRC: V1 Inst ID: V1.i
 Smp Info : 5ML, BFB1R, BFB1R
 Misc Info :
 Comment :
 Method : \\avogadro\organics\V1.I\120618.B\bfb8260.m
 Meth Date : 19-Jun-2012 12:22 adatta Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 4 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET105

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume (uL)
Cpnd Variable		Local Compound Variable

CONCENTRATIONS									
				ON-COL		FINAL			
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
11.496	11.505	(0.000)	95	379200			0.00-	100.00	100.00(Q)
11.496	11.505	(0.000)	50	73712			15.00-	40.00	19.44
11.496	11.505	(0.000)	75	159808			30.00-	60.00	42.14
11.496	11.505	(0.000)	96	26432			5.00-	9.00	6.97
11.496	11.505	(0.000)	173	64			0.00-	2.00	0.02
11.496	11.505	(0.000)	174	371392			50.00-	0.00	97.94
11.496	11.505	(0.000)	175	29112			5.00-	9.00	7.84
11.496	11.505	(0.000)	176	345408			95.00-	101.00	93.00
11.496	11.505	(0.000)	177	25568			5.00-	9.00	7.40

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Date : 18-JUN-2012 11:40

Client ID: BFB1R

Instrument: V1.i

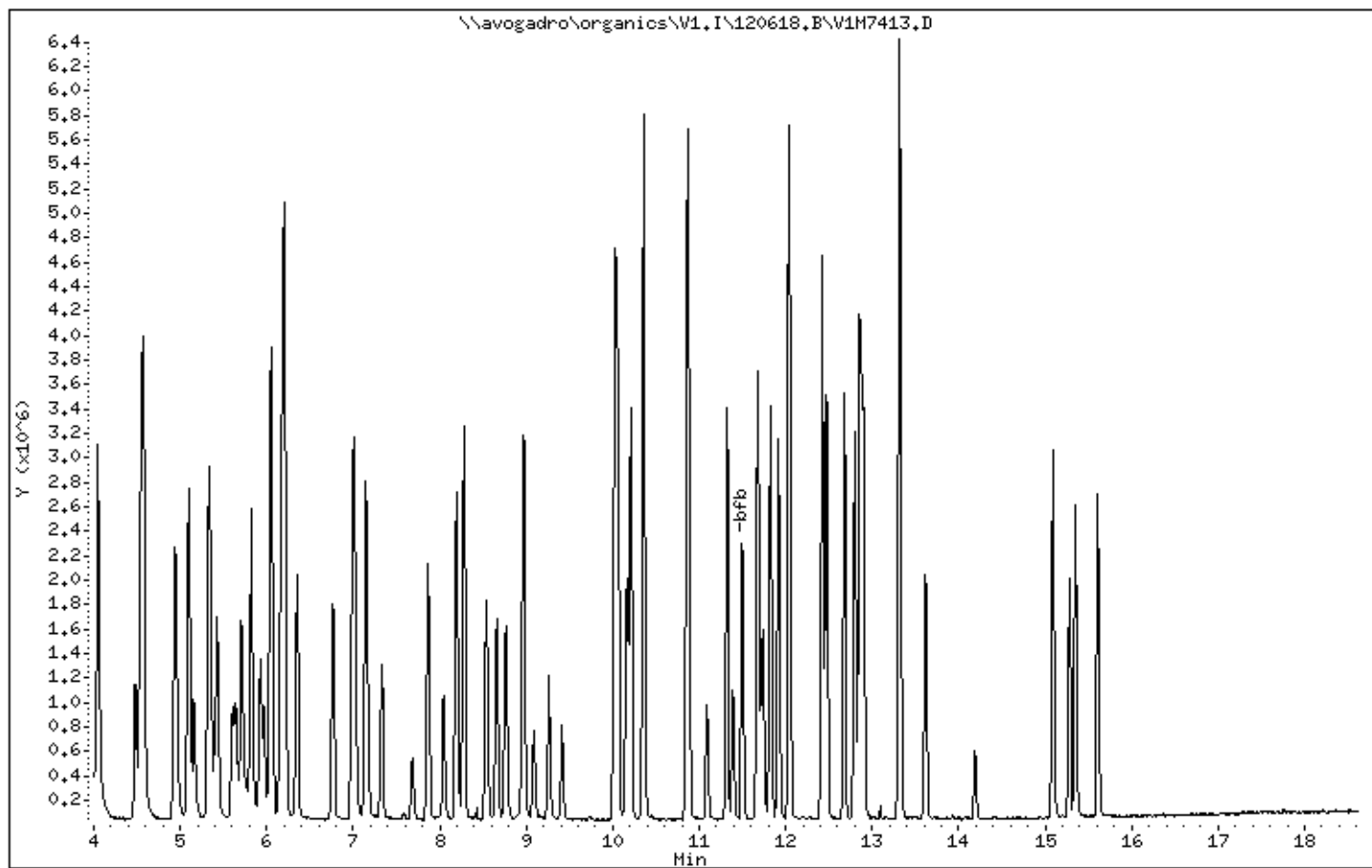
Sample Info: 5ML,BFB1R,BFB1R

Volume Injected (uL): 2.0

Operator: V1 SRC: V1

Column phase: DB-624

Column diameter: 0.25



Date : 18-JUN-2012 11:40

Client ID: BFB1R

Instrument: V1.i

Sample Info: 5HL,BFB1R,BFB1R

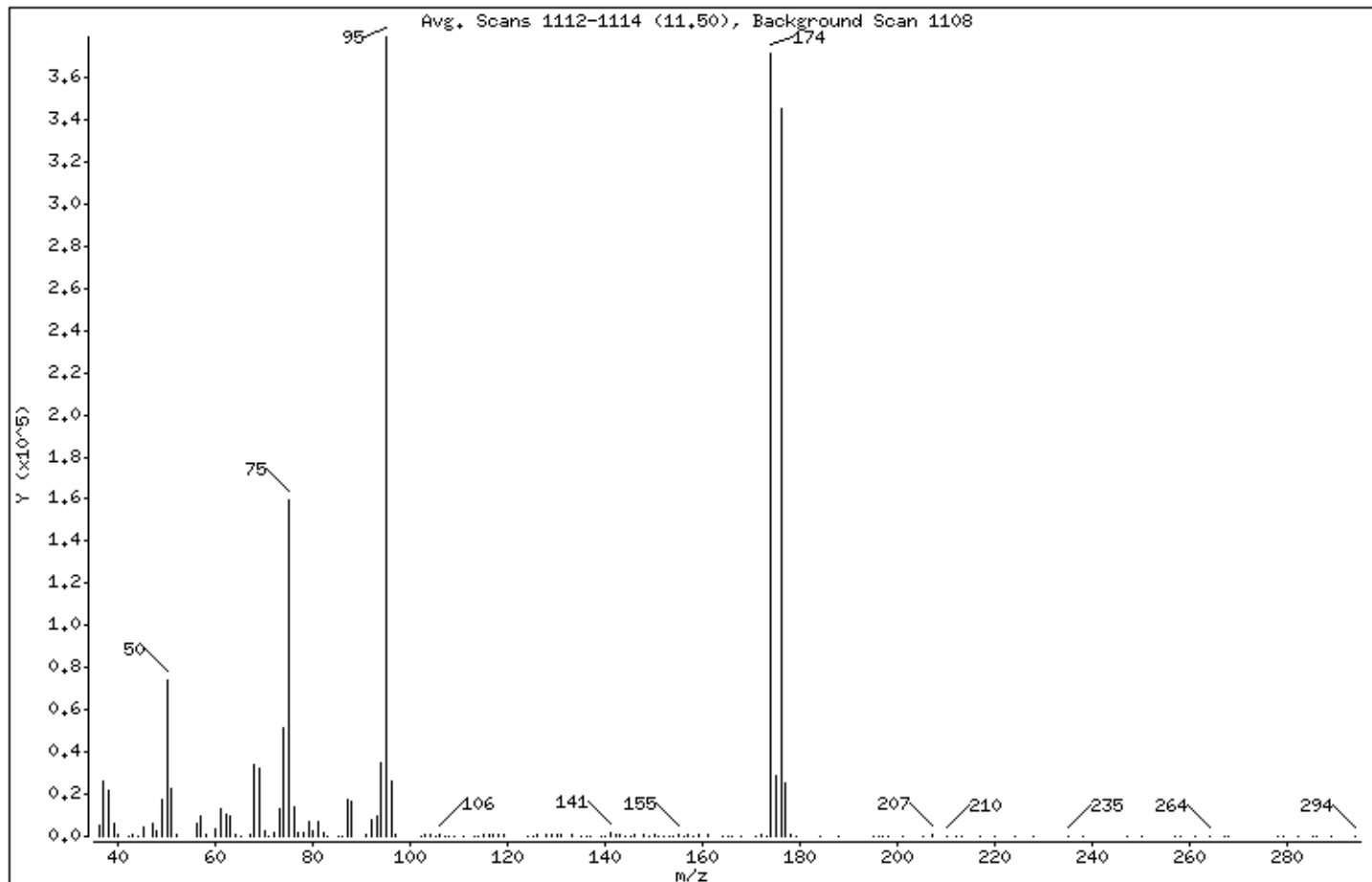
Volume Injected (uL): 2.0

Operator: V1 SRC: V1

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	19.44
75	30.00 - 60.00% of mass 95	42.14
96	5.00 - 9.00% of mass 95	6.97
173	Less than 2.00% of mass 174	0.02 (0.02)
174	Greater than 50.00% of mass 95	97.94
175	5.00 - 9.00% of mass 174	7.68 (7.84)
176	95.00 - 101.00% of mass 174	91.09 (93.00) *
177	5.00 - 9.00% of mass 176	6.74 (7.40)

Date : 18-JUN-2012 11:40

Client ID: BFB1R

Instrument: V1.i

Sample Info: 5ML,BFB1R,BFB1R

Volume Injected (uL): 2.0

Operator: V1 SRC: V1

Column phase: DB-624

Column diameter: 0.25

Data File: V1M7413.D

Spectrum: Avg. Scans 1112-1114 (11.50), Background Scan 1108

Location of Maximum: 95.00

Number of points: 146

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5657	80.00	2344	131.00	587	178.00	717
37.00	25832	81.00	6552	133.00	905	179.00	85
38.00	21544	82.00	1384	135.00	192	184.00	66
39.00	5824	83.00	137	136.00	113	188.00	56
40.00	692	85.00	98	137.00	288	195.00	178
42.00	231	86.00	301	139.00	96	196.00	101
43.00	678	87.00	17816	140.00	188	197.00	100
44.00	168	88.00	16680	141.00	1538	198.00	78
45.00	3982	91.00	1285	142.00	834	201.00	64
47.00	6209	92.00	7421	143.00	1199	205.00	59
48.00	3026	93.00	9654	144.00	86	207.00	1224
49.00	17496	94.00	34856	145.00	128	210.00	160
50.00	73712	95.00	379200	146.00	759	212.00	51
51.00	22336	96.00	26432	148.00	561	213.00	73
52.00	1202	97.00	634	149.00	166	217.00	58
56.00	5764	102.00	14	150.00	457	220.00	96
57.00	9961	103.00	701	151.00	54	224.00	68
58.00	454	104.00	576	152.00	70	228.00	66
60.00	3821	105.00	270	153.00	35	235.00	209
61.00	13141	106.00	1010	154.00	312	238.00	132
62.00	10754	107.00	119	155.00	1081	247.00	117
63.00	9727	108.00	110	156.00	131	250.00	83
64.00	574	109.00	18	157.00	616	257.00	80
65.00	313	111.00	161	158.00	56	258.00	117
67.00	953	113.00	125	159.00	513	261.00	66
68.00	33712	114.00	78	161.00	442	264.00	142
69.00	32336	115.00	479	164.00	128	267.00	71
70.00	2339	116.00	770	165.00	71	268.00	64
71.00	109	117.00	852	166.00	123	278.00	53
72.00	1498	118.00	816	168.00	153	279.00	58
73.00	13014	119.00	819	171.00	230	282.00	175
74.00	51376	124.00	246	172.00	469	285.00	57
75.00	159808	125.00	57	173.00	64	286.00	157
76.00	14271	126.00	473	174.00	371392	289.00	70
77.00	1901	128.00	573	175.00	29112	294.00	278

Date : 18-JUN-2012 11:40

Client ID: BFB1R

Instrument: V1.i

Sample Info: 5HL,BFB1R,BFB1R

Volume Injected (uL): 2.0

Operator: V1 SRC: V1

Column phase: DB-624

Column diameter: 0.25

Data File: V1M7413.D

Spectrum: Avg. Scans 1112-1114 (11.50), Background Scan 1108

Location of Maximum: 95.00

Number of points: 146

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	1882	129.00	537	176.00	345408		
79.00	6679	130.00	548	177.00	25568		

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66800

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66800

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M7418.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/18/2012

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
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
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
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66800

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66800
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M7418.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. 0.0 Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-66800

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66800

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M7418.D

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

% Moisture: not dec. _____ Date Analyzed: 06/18/2012

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

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

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

Data File: \\avogadro\organics\V1.I\120618.B\V1M7418.D
Report Date: 19-Jun-2012 12:25

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
Data file : \\avogadro\organics\V1.I\120618.B\V1M7418.D
Lab Smp Id: MB-66800 Client Smp ID: MB-66800
Inj Date : 18-JUN-2012 14:31
Operator : V1 SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,MB-66800,MB-66800,66800
Misc Info :
Comment :
Method : \\avogadro\organics\V1.I\120618.B\v18260GH.m
Meth Date : 19-Jun-2012 12:22 adatta Quant Type: ISTD
Cal Date : 14-JUN-2012 14:47 Cal File: V1M7356.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET105

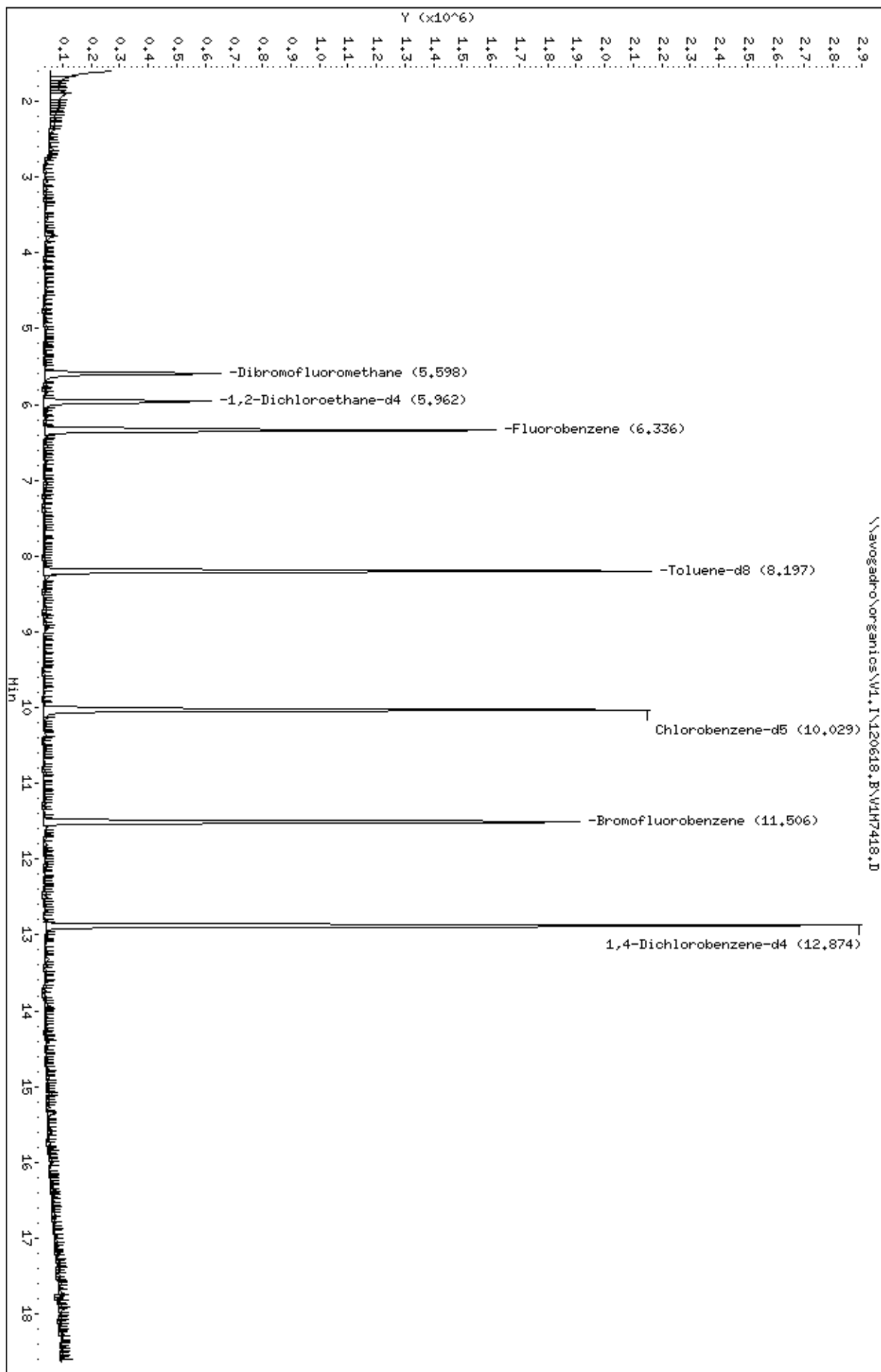
Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 5 / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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	5.597	5.598	(0.883)	446326	49.8807	50
\$ 37 1,2-Dichloroethane-d4	102	5.962	5.972	(0.941)	97396	53.6884	54
* 41 Fluorobenzene	96	6.336	6.346	(1.000)	1620576	50.0000	
\$ 51 Toluene-d8	98	8.197	8.197	(0.817)	1665129	46.5319	46
* 60 Chlorobenzene-d5	117	10.028	10.019	(1.000)	1537005	50.0000	
\$ 70 Bromofluorobenzene	95	11.505	11.506	(1.147)	693929	51.4474	51
* 84 1,4-Dichlorobenzene-d4	152	12.874	12.874	(1.000)	996442	50.0000	

Data File: \\avogadro\organics\VL1\120618.B\VLH7418.D
Date : 18-JUN-2012 14:31
Client ID: MB-66800
Sample Info: 5HL,MB-66800,MB-66800,66800
Column phase: DB-624

Instrument: VL.i
Operator: VL SRC: LIMS
Column diameter: 0.25



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66800

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-66800

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M7415.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/18/2012

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
74-87-3	Chloromethane	49	
75-01-4	Vinyl chloride	49	
74-83-9	Bromomethane	47	
75-00-3	Chloroethane	54	
75-69-4	Trichlorofluoromethane	41	
75-35-4	1,1-Dichloroethene	55	
67-64-1	Acetone	65	
75-15-0	Carbon disulfide	49	
75-09-2	Methylene chloride	54	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	51	
75-34-3	1,1-Dichloroethane	51	
108-05-4	Vinyl acetate	52	
78-93-3	2-Butanone	51	
156-59-2	cis-1,2-Dichloroethene	49	
67-66-3	Chloroform	53	
71-55-6	1,1,1-Trichloroethane	49	
56-23-5	Carbon tetrachloride	48	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	48	
78-87-5	1,2-Dichloropropane	53	
75-27-4	Bromodichloromethane	51	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	53	
127-18-4	Tetrachloroethene	42	
591-78-6	2-Hexanone	51	
124-48-1	Dibromochloromethane	47	
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	47	
179601-23-1	m,p-Xylene	95	
95-47-6	o-Xylene	46	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66800

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-66800

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M7415.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/18/2012

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

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	47	
75-25-2	Bromoform	42	
98-82-8	Isopropylbenzene	45	
79-34-5	1,1,2,2-Tetrachloroethane	48	
103-65-1	n-Propylbenzene	47	
108-67-8	1,3,5-Trimethylbenzene	48	
98-06-6	tert-Butylbenzene	47	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	47	
541-73-1	1,3-Dichlorobenzene	45	
106-46-7	1,4-Dichlorobenzene	45	
104-51-8	n-Butylbenzene	49	
95-50-1	1,2-Dichlorobenzene	46	
91-20-3	Naphthalene	46	
110-75-8	2-Chloroethyl vinyl ether	48	

Spectrum Analytical, Inc. RI Division

Method 8260 Water and Medium Soil
Data file : \\avogadro\organics\V1.I\120618.B\V1M7415.D
Lab Smp Id: LCS-66800 Client Smp ID: LCS-66800
Inj Date : 18-JUN-2012 13:08
Operator : V1 SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,LCS-66800,LCS-66800,66800
Misc Info :
Comment :
Method : \\avogadro\organics\V1.I\120618.B\v18260GH.m
Meth Date : 19-Jun-2012 12:22 adatta Quant Type: ISTD
Cal Date : 14-JUN-2012 14:47 Cal File: V1M7356.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 5 / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
1 Dichlorodifluoromethane	85	1.684	1.679 (0.265)		300771	50.0000	45
2 Chloromethane	50	1.881	1.876 (0.296)		825604	50.0000	49
3 Vinyl Chloride	62	1.999	1.994 (0.315)		455581	50.0000	49
4 Bromomethane	94	2.363	2.369 (0.372)		208003	50.0000	47
5 Chloroethane	64	2.472	2.467 (0.389)		184610	50.0000	54
6 Trichlorofluoromethane	101	2.728	2.733 (0.429)		176794	50.0000	41(Q)
127 Ethanol	46	2.915	2.920 (0.459)		238345	5000.00	4700
7 Ether	59	3.023	3.028 (0.476)		466169	50.0000	52
8 Acrolein	56	3.161	3.146 (0.498)		133341	250.000	260
9 1,1-Dichloroethene	96	3.269	3.265 (0.515)		433031	50.0000	55
10 1,1,2-Trichloro-1,2,2-trifluo	101	3.289	3.284 (0.518)		383294	50.0000	55
11 Acetone	58	3.308	3.314 (0.521)		66518	50.0000	65(Q)
12 Iodomethane	142	3.417	3.422 (0.538)		1079786	50.0000	46
13 Carbon Disulfide	76	3.496	3.501 (0.550)		1931304	50.0000	49
14 Acetonitrile	40	3.594	3.589 (0.566)		875619	500.000	530
15 Methyl Acetate	43	3.653	3.658 (0.575)		822216	50.0000	50
16 Methylene Chloride	84	3.761	3.757 (0.592)		716145	50.0000	54
17 tert-Butanol	59	3.880	3.875 (0.611)		163534	100.000	99
18 Acrylonitrile	53	4.008	4.003 (0.631)		313854	50.0000	51
20 Methyl tert-butyl ether	73	4.047	4.052 (0.637)		1914325	50.0000	51
19 trans-1,2-Dichloroethene	96	4.047	4.052 (0.637)		613758	50.0000	50

Data File: \\avogadro\organics\V1.I\120618.B\V1M7415.D
Report Date: 19-Jun-2012 12:25

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
21 1,1-Dichloroethane	63	4.480	4.485 (0.705)		1342233		50.0000	51
22 Vinyl acetate	43	4.539	4.535 (0.715)		3971457		50.0000	52
23 Diisopropyl Ether	45	4.559	4.564 (0.718)		3759837		50.0000	51
24 Ethyl tert-butyl ether	59	4.943	4.948 (0.778)		2648212		50.0000	53
M 27 1,2-dichloroethene, (Total)	100				1361237		100.000	99
25 cis-1,2-Dichloroethene	96	5.091	5.096 (0.802)		747479		50.0000	48
26 2,2-Dichloropropane	77	5.100	5.096 (0.803)		537163		50.0000	50
28 2-Butanone	72	5.100	5.106 (0.803)		80039		50.0000	51
29 Bromochloromethane	128	5.347	5.352 (0.842)		457677		50.0000	50
30 Tetrahydrofuran	72	5.396	5.401 (0.850)		187836		100.000	110
31 Chloroform	83	5.425	5.431 (0.854)		1208528		50.0000	53
\$ 32 Dibromofluoromethane	113	5.603	5.598 (0.882)		509297		50.0000	50
33 1,1,1-Trichloroethane	97	5.642	5.647 (0.888)		679063		50.0000	49
34 Cyclohexane	56	5.711	5.706 (0.899)		1270342		50.0000	52
36 Carbon Tetrachloride	117	5.819	5.825 (0.916)		614025		50.0000	48
35 1,1-Dichloropropene	110	5.819	5.825 (0.916)		322960		50.0000	51
\$ 37 1,2-Dichloroethane-d4	102	5.967	5.972 (0.940)		99975		50.0000	48
38 Benzene	78	6.046	6.041 (0.952)		2805065		50.0000	51
39 1,2-Dichloroethane	62	6.056	6.051 (0.953)		940007		50.0000	52
40 tert-Amyl methyl ether	73	6.164	6.169 (0.971)		2221385		50.0000	52
* 41 Fluorobenzene	96	6.351	6.346 (1.000)		1862534		50.0000	
42 Trichloroethene	130	6.764	6.770 (1.065)		784106		50.0000	48
43 Methylcyclohexane	83	6.991	6.996 (1.101)		1061046		50.0000	50
44 1,2-Dichloropropane	63	7.011	7.016 (1.104)		834083		50.0000	53
46 Dibromomethane	93	7.148	7.144 (1.126)		485651		50.0000	52
47 1,4-Dioxane	88	7.168	7.173 (1.129)		131057		1000.00	980
48 Bromodichloromethane	83	7.326	7.331 (1.153)		950064		50.0000	51
45 2-Chloroethyl vinyl ether	63	7.680	7.685 (1.209)		233172		50.0000	48
49 cis-1,3-Dichloropropene	75	7.857	7.863 (1.237)		1289636		50.0000	51
50 4-Methyl-2-pentanone	43	8.044	8.050 (1.267)		1070126		50.0000	51
\$ 51 Toluene-d8	98	8.192	8.197 (0.817)		1969589		50.0000	49
52 Toluene	91	8.281	8.276 (1.304)		2726255		50.0000	50
53 trans-1,3-Dichloropropene	75	8.537	8.532 (1.344)		1106214		50.0000	52
54 1,1,2-Trichloroethane	97	8.763	8.769 (1.380)		642055		50.0000	53
55 Tetrachloroethene	164	8.960	8.965 (0.894)		696310		50.0000	42
56 1,3-Dichloropropane	76	8.970	8.975 (0.895)		1076999		50.0000	46
57 2-Hexanone	43	9.088	9.084 (0.907)		759953		50.0000	51
58 Dibromochloromethane	129	9.265	9.271 (0.924)		843820		50.0000	47
59 1,2-Dibromoethane	107	9.413	9.418 (0.939)		731214		50.0000	48
* 60 Chlorobenzene-d5	117	10.023	10.019 (1.000)		1733775		50.0000	
63 1-Chlorohexane	91	10.043	10.039 (1.002)		938817		50.0000	47
61 Chlorobenzene	112	10.063	10.058 (1.004)		1929790		50.0000	47
62 1,1,1,2-Tetrachloroethane	131	10.161	10.167 (1.014)		745096		50.0000	46
64 Ethylbenzene	106	10.211	10.206 (1.019)		943911		50.0000	47
65 m,p-Xylene	106	10.358	10.364 (1.033)		2335169		100.000	94
66 o-Xylene	106	10.860	10.866 (1.083)		1170495		50.0000	46
67 Styrene	104	10.880	10.876 (1.085)		2019890		50.0000	47
68 Bromoform	173	11.097	11.102 (1.107)		587509		50.0000	42
69 Isopropylbenzene	105	11.323	11.329 (1.130)		2708714		50.0000	45
126 trans-1,4-Dichloro-2-butene	75	11.500	11.506 (1.147)		355473		50.0000	52(Q)
\$ 70 Bromofluorobenzene	95	11.510	11.506 (1.148)		797722		50.0000	52
72 Bromobenzene	156	11.687	11.683 (0.907)		967050		50.0000	42
71 1,1,2,2-Tetrachloroethane	83	11.678	11.673 (0.907)		906231		50.0000	48
73 1,2,3-Trichloropropane	75	11.737	11.732 (0.911)		1066295		50.0000	51

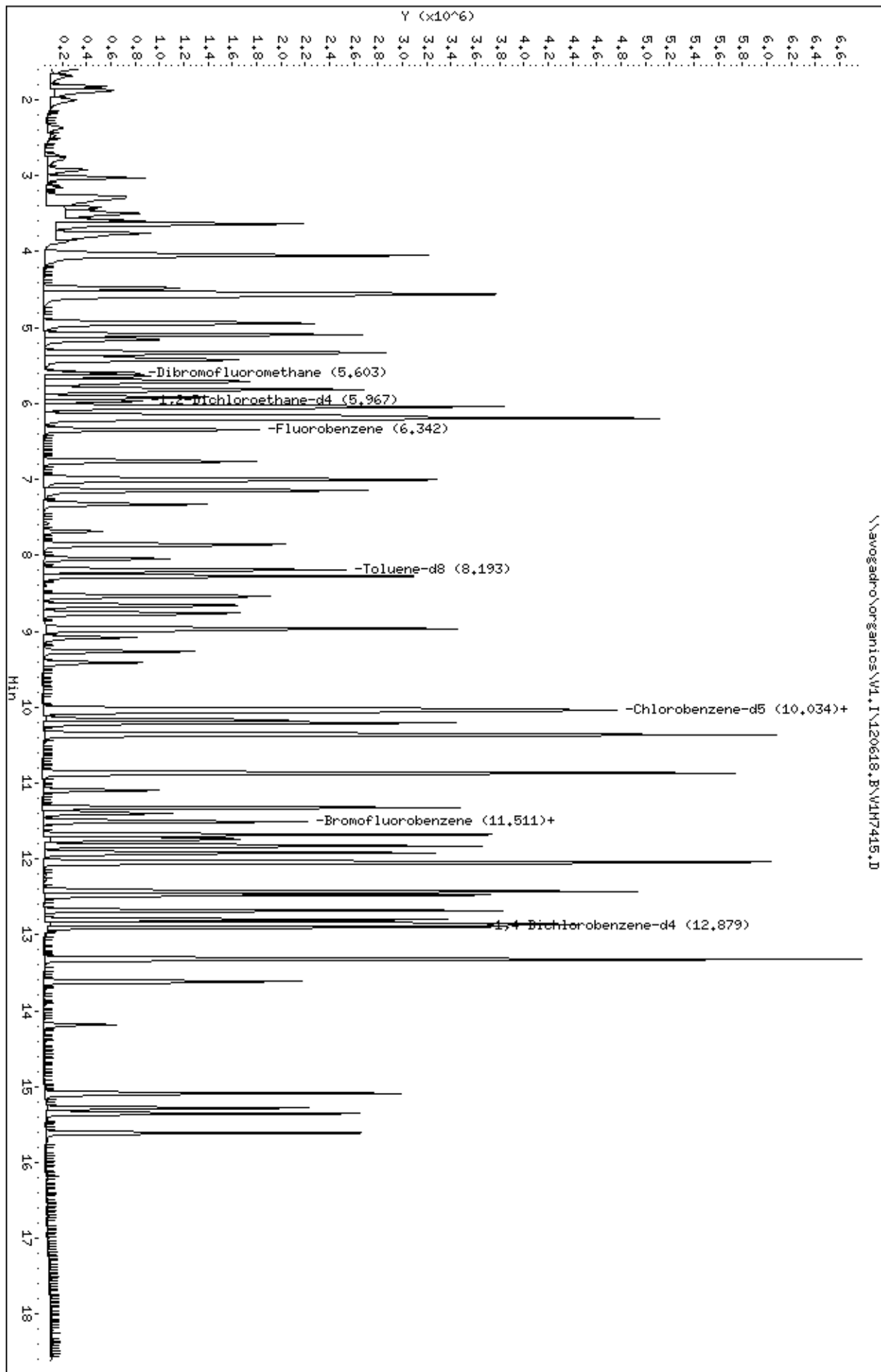
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
74 n-Propylbenzene	120	11.825	11.831	(0.918)	781077		50.0000	47
75 2-Chlorotoluene	126	11.924	11.929	(0.926)	778890		50.0000	46
76 1,3,5-Trimethylbenzene	105	12.042	12.037	(0.935)	2278358		50.0000	48
77 4-Chlorotoluene	126	12.052	12.057	(0.936)	787427		50.0000	46
78 tert-Butylbenzene	119	12.426	12.431	(0.965)	2448282		50.0000	47
79 1,2,4-Trimethylbenzene	105	12.475	12.481	(0.969)	2305355		50.0000	48
M 81 Xylene (Total)	106				3505664		150.000	140
80 sec-Butylbenzene	105	12.682	12.687	(0.985)	3058376		50.0000	48
82 1,3-Dichlorobenzene	146	12.800	12.805	(0.994)	1672865		50.0000	45
83 4-Isopropyltoluene	119	12.849	12.855	(0.998)	2531649		50.0000	47
* 84 1,4-Dichlorobenzene-d4	152	12.879	12.874	(1.000)	1033195		50.0000	
85 1,4-Dichlorobenzene	146	12.908	12.904	(1.002)	1688092		50.0000	45
86 n-Butylbenzene	91	13.322	13.317	(1.034)	2359395		50.0000	49
87 1,2-Dichlorobenzene	146	13.322	13.327	(1.034)	1623488		50.0000	46
88 1,2-Dibromo-3-chloropropane	75	14.188	14.194	(1.102)	135666		50.0000	47
128 1,3,5-Trichlorobenzene	180	15.094	15.100	(2.377)	1191961		50.0000	48(A)
89 1,2,4-Trichlorobenzene	180	15.094	15.100	(1.172)	1191961		50.0000	45
90 Hexachlorobutadiene	225	15.281	15.287	(1.187)	462893		50.0000	42
91 Naphthalene	128	15.350	15.356	(1.192)	2372387		50.0000	46
92 1,2,3-Trichlorobenzene	180	15.616	15.612	(1.213)	1124368		50.0000	47

QC Flag Legend

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

Data File: \\avogadro\organics\VL1\120618.B\VLH7415.D
 Date : 18-JUN-2012 13:08
 Client ID: LCS-66800
 Sample Info: 5HL,LCS-66800,LCS-66800,66800
 Column phase: DB-624

Instrument: VL.i
 Operator: VL SRC: LIMS
 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
6/15/12	MB-66765	8260M	N/A	N/A	5.0	5.0	E	MeOH 51182		AED
6/15/12	LC5-66765	8260M	N/A	N/A	5.0	5.0	E	MeOH 51182		AED
6/15/12	L1252	~~8260M~~ 8260L	N/A	N/A	5.9	5.0	E	MeOH 51182		AED
6/15/12	L1285-01B2	50M	31.993	38.25	7.1	5.0	B	D2H2O	4:00 PM	WL
6/18/12	MB-66782		N/A	N/A	5.0		E		6th and 5th sand #085645	
	L1285-09B		30.97	37.91	7.0		B		8:25 AM	
	-10B		31.31	35.62	4.3				26	
	-11B		31.10	37.55	6.4				27	
	-12B		31.23	36.79	5.5				28	
	-13B		31.22	36.38	5.2				29	
6/18/12	L1285-14B	50M	31.15	36.57	5.4	5.0	B	D2H2O	8:30 AM	WL
	MB	8260L	N/A	N/A	5.0	5.0	E	D2H2O		AED
	LC5	8260L	N/A	N/A	5.0	5.0	E	D2H2O		AED
	L1327	018M10	N/A	N/A	5.6	5.0	E	D2H2O		AED
6/18/12	L1326	034	N/A	N/A	5.1	5.0	E	D2H2O		AED

*=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

94

Logbook ID: 90.0189-02/12

79

Reviewed By: WL

6/20/12

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
6/18/12	L1326	06A	N/A	N/A	5.8	5.0	E	DI H ₂ O		AED
6/19/12	L1326	06A	N/A	N/A	2.0	5.0	E	DI H ₂ O		AED
6/19/12	L1324	01B400	N/A	N/A	5.3	5.0	E	DI H ₂ O		AED
6/19/12	L1324	06A	N/A	N/A	3.0	5.0	E	DI H ₂ O		AED
6/20/12	MB-66853		N/A	N/A	5.0	5.0	E	DI H ₂ O		AED
6/20/12	LCS-66853		N/A	N/A	5.0	5.0	E	DI H ₂ O		AED
6/20/12	L1350	01B	N/A	N/A	5.1	5.0	E	DI H ₂ O		AED
6/25/12	MB		N/A	N/A	5.0	5.0	E	MeOH 51182		AED
	LCS				5.0					
	L1399	02B			5.8					
	L1399	05B			5.8					
6/25/12	L1399	06B	N/A	N/A	5.2	5.0	E	MeOH 51182		AED

*=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

Percent Moisture and Percent Solids Report

<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Analyzed</i>	<i>Percent Moisture</i>	<i>Percent Solids</i>	<i>Validated</i>
<i>L1326-03A</i>	<i>GP-21 22-23.8</i>	06/18/2012	11.554	88.446	Yes
<i>L1326-04A</i>	<i>GP-23 0-2</i>	06/15/2012	17.955	82.045	Yes
<i>L1326-06B</i>	<i>GP-24 8-12</i>	06/15/2012	18.414	81.586	Yes

Spectrum Analytical, Inc. RI Division VI Injection Log METHOD: 8260 LOW-S ANALYST: MEG BATCH: 120614.B Start: 14-JUN-12 13:24
 Volatiles Laboratory ICAL DATE: 6/14/12 End: 14-JUN-12 21:44

Comments:

Standards: 8260 LOW-S 13:55 14:47 15:15 15:42 16:10 17:34 18:02 18:29 18:57 19:24 19:53 20:20 20:48 21:16 21:44
13:55 14:47 15:15 15:42 16:10 17:34 18:02 18:29 18:57 19:24 19:53 20:20 20:48 21:16 21:44
STD STD STD STD STD STD STD STD STD STD STD STD STD STD STD

Reviewed By: MEG Manual Integration: N/A MT Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP	MT BN	INTERNAL STDS	SURROGATES	DILN	FLG	COMMENTS	PH
VLM7353	13:24	BFB1P									
VLM7354	13:51	VSTD0051P									
VLM7356	14:47	VSTD2001P									
VLM7357	15:15	VSTD1001P									
VLM7358	15:42	VSTD0501P									
VLM7359	16:10	VSTD0201P									
VLM7361	17:34	VICV0501P									
VLM7362	18:02	LCS-66738									
VLM7363	18:29	LCSD-66738									
VLM7364	18:57	MB-66738									
VLM7365	19:24	MB-66738									
VLM7366	19:53	MB-66738									
VLM7367	20:20	L1172-05A									
VLM7368	20:48	L1252-02B									
VLM7369	21:16	L1283-01C									
VLM7370	21:44	L1283-02C									

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

MEG 6/15/12

INJECTION LOG

Start: 18-JUN-12 11:40
End: 18-JUN-12 19:38

BATCH: 120618.B

ANALYST: AED

METHOD: 8260/162-S

VI Injection Log

RI Division

Spectrum Analytical, Inc.
Volatiles Laboratory

ICAL DATE: 6/14/12

Comments:

Standards: BFB VW120404A 2 uL
IS/SS VW120581A AUTO uL
STD VW120613A 2.5 uL

Reviewed By: 6/19/12 Manual Integration: N/A MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP MT	BN	INTERNAL STDS	SURROGATES	DIIN FLG	COMMENTS	pH
VLM7413	11:40	BFB1R	BFB1R		AQ					
VLM7414	12:40	VSTD0501R	VSTD0501R		SL	100	100			
VLM7415	13:08	LCS-66800	LCS-66800		SL	92	93	94	99	96
VLM7416	13:36	MB-66800	MB-66800		SL	94	91	97	99	94
VLM7417	14:04	MB-66800	MB-66800		SL	85	86	93	102	101
VLM7418	14:31	MB-66800	MB-66800		SL	80	83	91	100	107
VLM7419	14:59	L1326-03A	GP-21 22-23.8		SL	81	79	77	102	99
VLM7420	15:27	L1326-06A	GP-24 8-12		SL	82	83	92	100	104
VLM7421	15:55	L1324-01BMSD	JU07-CS1-061312		SL	79	81	80	102	110
VLM7422	16:22	VBLK	VBLK		AQ	73	76	79	104	111
VLM7423	16:50	L1326-06A	GP-24 8-12		SL	76	77	81	102	96
VLM7424	17:18	VBLK	VBLK		AQ	75	76	86	105	107
VLM7425	17:46	L1324-01BMSD	JU07-CS1-061312		SL	71	75	80	109	106
VLM7426	18:14	VBLK	VBLK		AQ	74	75	84	101	93
VLM7427	18:42	L1326-06A	GP-24 8-12		SL	76	77	85	105	98
VLM7428	19:09	VBLK	VBLK		AQ	75	77	81	103	100
VLM7429	19:38	VBLK	VBLK		AQ	70	72	78	106	112

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

AED 6/19/12

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 R1
6/18/12	L1336	Labella	02,03,05	AED	CFA	H	R9	
6/18/12	L1341	Tetra	05	AED		H	R9	
6/18/12	L1326	Labella	03,06	AED		US	R9	
6/19/12	L1350	CH2M	02,03	AED	CFA	H	R9	
6/19/12	L1326	Labella	03	JV	AED	US	R9	
	L1348	Labella	01,02			H	R9	
	L1347	Venark	01,02			H	R9	
	L1350	CH2M	01			US	R9	
	L1351	HDR	01,03			H	R9	
6/19/12	L1354	EPA	01-16	JV	AED	T	R4	
6/20/12	L1360	Dvika	01	VEB	CFA	H	R9	
	L1351	HDR	04-11			H	R9	
	L1364	Sevinson	01			H	R9	
6/20/12	L1367	Mitkun	01,02	VZB	CFA	UA	R10	

Logbook ID 90.0191-04/12

Reviewed By: AED 6/20/12

"Preservative Used" Key

UA = Unpreserved Aqueous

E = Encore

US = Unpreserved Soil

F = Freeze

T = Trace, HCL

H = HCL

A = Air

M = MeOH

N = NaHSO₄



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Semivolatile Organics ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave.

Laboratory Workorder / SDG #: L1326

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: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3
Instrument Type: GCMS-SEMI
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 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 with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

(LCSD-66786), recovery is above criteria for Nitrobenzene-d5 at 101% with criteria of (35-100).

(MB-66786), recovery is above criteria for 2,4,6-Tribromophenol at 181% with criteria of (35-125).

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-66786 in batch 66786, Percent Recovery is outside QC Limits, recovery is above criteria for 2,4-Dinitrophenol at 198% with criteria of (15-130), 2-Nitrophenol at 113% with criteria of (40-110) and 4,6-Dinitro-2-methylphenol at 173% with criteria of (30-135).

LCSD-66786 in batch 66786, Percent Recovery is outside QC Limits, recovery is above criteria for 2,4-Dinitrophenol at 197% with

criteria of (15-130), 2,6-Dinitrotoluene at 114% with criteria of (50-110), 2-Nitrophenol at 117% with criteria of (40-110) and 4,6-Dinitro-2-methylphenol at 175% with criteria of (30-135).

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:

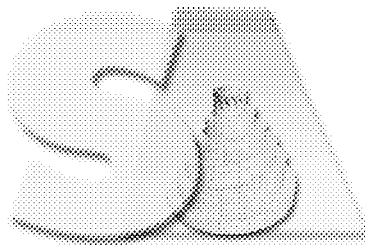
No other unusual occurrences were noted during sample analysis.

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.

A handwritten signature in black ink, appearing to be 'J. H. P.', is written over a horizontal line.

Signed: _____

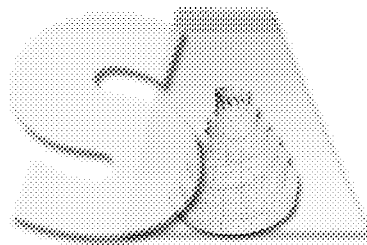
Date: _____ 6/28/2012 _____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: L1326

Mod. Ref No.:

SDG No.: SL1326

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (NBZ) #	SDMC2 (FBP) #	SDMC3 (TPH) #	SDMC4 (PHL) #	SDMC5 (2FP) #	SDMC6 (TBP) #			TOT OUT
01	GP-24 8-12	77	76	86	85	93	86			0
02	MB-66786	94	92	92	75	96	181 *			1
03	LCS-66786	100	95	93	75	94	112			0
04	LCSD-66786	101 *	94	93	84	102	115			1

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

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCS-66786 LCS Lot No.: A084216
Date Extracted: 06/18/2012 Date Analyzed (1): 06/25/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	3333.0000	0.0000	2578.6614	77		40 - 100
Bis(2-chloroethyl)ether	3333.0000	0.0000	2536.7184	76		40 - 105
2-Chlorophenol	3333.0000	0.0000	2786.4078	84		45 - 105
1,3-Dichlorobenzene	3333.0000	0.0000	2924.1778	88		40 - 100
1,4-Dichlorobenzene	3333.0000	0.0000	2857.3561	86		35 - 105
1,2-Dichlorobenzene	3333.0000	0.0000	2694.0117	81		45 - 95
2-Methylphenol	3333.0000	0.0000	2438.0111	73		40 - 105
2,2'-oxybis(1-Chloropropan	3333.0000	0.0000	2391.0196	72		20 - 115
4-Methylphenol	3333.0000	0.0000	2316.9959	70		40 - 105
N-Nitroso-di-n-propylamine	3333.0000	0.0000	2014.9327	60		40 - 115
Hexachloroethane	3333.0000	0.0000	2940.7910	88		35 - 110
Nitrobenzene	3333.0000	0.0000	3321.0599	100		40 - 115
Isophorone	3333.0000	0.0000	2605.3733	78		45 - 110
2-Nitrophenol	3333.0000	0.0000	3777.9565	113	*	40 - 110
2,4-Dimethylphenol	3333.0000	0.0000	3483.4464	105		30 - 105
2,4-Dichlorophenol	3333.0000	0.0000	3208.5267	96		45 - 110
1,2,4-Trichlorobenzene	3333.0000	0.0000	3037.4238	91		45 - 110
Naphthalene	3333.0000	0.0000	2986.7248	90		40 - 105
4-Chloroaniline	3333.0000	0.0000	1836.3690	55		10 - 100
Bis(2-chloroethoxy)methane	3333.0000	0.0000	2874.0149	86		45 - 110
Hexachlorobutadiene	3333.0000	0.0000	3387.4270	102		40 - 115
4-Chloro-3-methylphenol	3333.0000	0.0000	2771.7430	83		45 - 115
2-Methylnaphthalene	3333.0000	0.0000	2741.0655	82		45 - 105
Hexachlorocyclopentadiene	3333.0000	0.0000	3871.7550	116		8 - 148
2,4,6-Trichlorophenol	3333.0000	0.0000	3518.2991	106		45 - 110
2,4,5-Trichlorophenol	3333.0000	0.0000	3261.2137	98		50 - 110
2-Chloronaphthalene	3333.0000	0.0000	3231.4475	97		45 - 105
2-Nitroaniline	3333.0000	0.0000	3384.7604	102		45 - 120
Dimethylphthalate	3333.0000	0.0000	2969.7853	89		50 - 110
Acenaphthylene	3333.0000	0.0000	3018.4968	91		45 - 105
2,6-Dinitrotoluene	3333.0000	0.0000	3628.2892	109		50 - 110
3-Nitroaniline	3333.0000	0.0000	2630.1282	79		25 - 110
Acenaphthene	3333.0000	0.0000	3084.8576	93		45 - 110
2,4-Dinitrophenol	3333.0000	0.0000	6599.3554	198	*	15 - 130
4-Nitrophenol	3333.0000	0.0000	3291.7626	99		15 - 140
Dibenzofuran	3333.0000	0.0000	2934.4153	88		50 - 105
2,4-Dinitrotoluene	3333.0000	0.0000	3733.1931	112		50 - 115
Diethylphthalate	3333.0000	0.0000	2839.9868	85		50 - 115
4-Chlorophenyl-phenylether	3333.0000	0.0000	2964.8934	89		45 - 110
Fluorene	3333.0000	0.0000	2964.6683	89		50 - 110
4-Nitroaniline	3333.0000	0.0000	2962.8261	89		35 - 115
4,6-Dinitro-2-methylphenol	3333.0000	0.0000	5772.5426	173	*	30 - 135
N-Nitrosodiphenylamine	3333.0000	0.0000	3319.6740	100		50 - 115
4-Bromophenyl-phenylether	3333.0000	0.0000	3297.9877	99		45 - 115

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Lab Sample ID: LCS-66786 LCS Lot No.: A084216
 Date Extracted: 06/18/2012 Date Analyzed (1): 06/25/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Hexachlorobenzene	3333.0000	0.0000	3235.0994	97		45 - 120
Pentachlorophenol	3333.0000	0.0000	3479.8022	104		25 - 120
Phenanthrene	3333.0000	0.0000	3234.8463	97		50 - 110
Anthracene	3333.0000	0.0000	3215.8849	96		55 - 105
Carbazole	3333.0000	0.0000	3232.2149	97		45 - 115
Di-n-butylphthalate	3333.0000	0.0000	2972.4301	89		55 - 110
Fluoranthene	3333.0000	0.0000	3112.0102	93		55 - 115
Pyrene	3333.0000	0.0000	3276.6176	98		45 - 125
Butylbenzylphthalate	3333.0000	0.0000	3190.9391	96		50 - 125
3,3'-Dichlorobenzidine	3333.0000	0.0000	3269.8817	98		10 - 130
Benzo(a)anthracene	3333.0000	0.0000	3291.3749	99		50 - 110
Chrysene	3333.0000	0.0000	3295.7593	99		55 - 110
Bis(2-ethylhexyl)phthalate	3333.0000	0.0000	3053.0554	92		45 - 125
Di-n-octylphthalate	3333.0000	0.0000	2815.4471	84		40 - 130
Benzo(b)fluoranthene	3333.0000	0.0000	3102.6185	93		45 - 115
Benzo(k)fluoranthene	3333.0000	0.0000	3092.4501	93		45 - 125
Benzo(a)pyrene	3333.0000	0.0000	3102.1890	93		50 - 110
Indeno(1,2,3-cd)pyrene	3333.0000	0.0000	3488.1084	105		40 - 120
Dibenzo(a,h)anthracene	3333.0000	0.0000	3576.3356	107		40 - 125
Benzo(g,h,i)perylene	3333.0000	0.0000	3603.7255	108		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 64 outside limits

COMMENTS: _____

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66786

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: L1326

Mod. Ref No.:

SDG No.: SL1326

Lab Sample ID: LCSD-66786

LCS Lot No.:

A084216

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #		%RPD #	QC LIMITS	
						RPD	REC.
Phenol	3333.0000	2861.3480	86		11	40	40 - 100
Bis(2-chloroethyl)ether	3333.0000	2589.6411	78		3	40	40 - 105
2-Chlorophenol	3333.0000	3049.6999	92		9	40	45 - 105
1,3-Dichlorobenzene	3333.0000	2880.9004	86		2	40	40 - 100
1,4-Dichlorobenzene	3333.0000	2834.3093	85		1	40	35 - 105
1,2-Dichlorobenzene	3333.0000	2725.8627	82		1	40	45 - 95
2-Methylphenol	3333.0000	2677.7338	80		9	40	40 - 105
2,2'-oxybis(1-Chloropropan	3333.0000	2447.8131	73		1	40	20 - 115
4-Methylphenol	3333.0000	2590.2457	78		11	40	40 - 105
N-Nitroso-di-n-propylamine	3333.0000	2268.3930	68		13	40	40 - 115
Hexachloroethane	3333.0000	2872.1388	86		2	40	35 - 110
Nitrobenzene	3333.0000	3318.2391	100		0	40	40 - 115
Isophorone	3333.0000	2665.8966	80		3	40	45 - 110
2-Nitrophenol	3333.0000	3896.8867	117	*	3	40	40 - 110
2,4-Dimethylphenol	3333.0000	3461.6293	104		1	40	30 - 105
2,4-Dichlorophenol	3333.0000	3369.0651	101		5	40	45 - 110
1,2,4-Trichlorobenzene	3333.0000	2947.7545	88		3	40	45 - 110
Naphthalene	3333.0000	2958.1857	89		1	40	40 - 105
4-Chloroaniline	3333.0000	2053.2727	62		12	40	10 - 100
Bis(2-chloroethoxy)methane	3333.0000	2908.6508	87		1	40	45 - 110
Hexachlorobutadiene	3333.0000	3261.1506	98		4	40	40 - 115
4-Chloro-3-methylphenol	3333.0000	2911.7672	87		5	40	45 - 115
2-Methylnaphthalene	3333.0000	2752.8796	83		1	40	45 - 105
Hexachlorocyclopentadiene	3333.0000	3587.3189	108		7	40	8 - 148
2,4,6-Trichlorophenol	3333.0000	3502.6440	105		1	40	45 - 110
2,4,5-Trichlorophenol	3333.0000	3280.6752	98		0	40	50 - 110
2-Chloronaphthalene	3333.0000	3149.3797	94		3	40	45 - 105
2-Nitroaniline	3333.0000	3504.1955	105		3	40	45 - 120
Dimethylphthalate	3333.0000	2995.4515	90		1	40	50 - 110
Acenaphthylene	3333.0000	3041.3389	91		0	40	45 - 105
2,6-Dinitrotoluene	3333.0000	3784.4907	114	*	4	40	50 - 110
3-Nitroaniline	3333.0000	2828.4241	85		7	40	25 - 110
Acenaphthene	3333.0000	3046.3829	91		2	40	45 - 110
2,4-Dinitrophenol	3333.0000	6558.0703	197	*	1	40	15 - 130
4-Nitrophenol	3333.0000	3418.0882	103		4	40	15 - 140
Dibenzofuran	3333.0000	2993.2477	90		2	40	50 - 105
2,4-Dinitrotoluene	3333.0000	3798.8792	114		2	40	50 - 115
Diethylphthalate	3333.0000	2856.7612	86		1	40	50 - 115
4-Chlorophenyl-phenylether	3333.0000	3014.7776	90		1	40	45 - 110
Fluorene	3333.0000	3004.5329	90		1	40	50 - 110
4-Nitroaniline	3333.0000	3122.1003	94		5	40	35 - 115
4,6-Dinitro-2-methylphenol	3333.0000	5823.6209	175	*	1	40	30 - 135
N-Nitrosodiphenylamine	3333.0000	3226.9785	97		3	40	50 - 115
4-Bromophenyl-phenylether	3333.0000	3159.9039	95		4	40	45 - 115
Hexachlorobenzene	3333.0000	3176.7895	95		2	40	45 - 120
Pentachlorophenol	3333.0000	3366.7776	101		3	40	25 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCSD-66786 LCS Lot No.: A084216

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS	
							RPD	REC.
Phenanthrene	3333.0000	3160.9618	95		2		40	50 - 110
Anthracene	3333.0000	3159.7438	95		1		40	55 - 105
Carbazole	3333.0000	3181.6458	95		2		40	45 - 115
Di-n-butylphthalate	3333.0000	2960.6274	89		0		40	55 - 110
Fluoranthene	3333.0000	3130.0027	94		1		40	55 - 115
Pyrene	3333.0000	3200.3932	96		2		40	45 - 125
Butylbenzylphthalate	3333.0000	3138.3693	94		2		40	50 - 125
3,3'-Dichlorobenzidine	3333.0000	3209.8677	96		2		40	10 - 130
Benzo(a)anthracene	3333.0000	3165.8210	95		4		40	50 - 110
Chrysene	3333.0000	3219.5787	97		2		40	55 - 110
Bis(2-ethylhexyl)phthalate	3333.0000	3004.7186	90		2		40	45 - 125
Di-n-octylphthalate	3333.0000	2879.3584	86		2		40	40 - 130
Benzo(b)fluoranthene	3333.0000	3099.3431	93		0		40	45 - 115
Benzo(k)fluoranthene	3333.0000	2981.0893	89		4		40	45 - 125
Benzo(a)pyrene	3333.0000	3066.3594	92		1		40	50 - 110
Indeno(1,2,3-cd)pyrene	3333.0000	3372.6691	101		4		40	40 - 120
Dibenzo(a,h)anthracene	3333.0000	3413.4587	102		5		40	40 - 125
Benzo(g,h,i)perylene	3333.0000	3415.0038	102		6		40	40 - 125

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

* Values outside of QC limits

RPD: 0 out of 64 outside limits

Spike Recovery: 4 out of 64 outside limits

COMMENTS: _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab File ID: S3I1062.D Lab Sample ID: MB-66786
Instrument ID: S3 Date Extracted: 06/18/2012
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/25/2012
Level: (LOW/MED) LOW Time Analyzed: 12:47
Extraction: (Type) SONC GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	GP-24 8-12	L1326-06B	S3I0964.D	06/18/2012
02	LCS-66786	LCS-66786	S3I1066B.D	06/25/2012
03	LCSD-66786	LCSD-66786	S3I1067B.D	06/25/2012

COMMENTS:

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

EPA SAMPLE NO.

DFTPP3B

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab File ID: S3I0950A.D DFTPP Injection Date: 06/18/2012
Instrument ID: S3 DFTPP Injection Time: 11:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	40.6
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	10.0 - 80.0% of mass 198	49.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.2
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than mass 443	11.5
442	50.0 - 100% of mass 198	84.5
443	15.0 - 24.0% of mass 442	16.4 (19.4)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	SSTD0253B	SSTD0253B	S3I0951B.D	06/18/2012	13:22
02	SSTD0803B	SSTD0803B	S3I0952.D	06/18/2012	13:47
03	SSTD0053B	SSTD0053B	S3I0953.D	06/18/2012	14:13
04	SSTD0603B	SSTD0603B	S3I0954.D	06/18/2012	14:39
05	SSTD0103B	SSTD0103B	S3I0955.D	06/18/2012	15:04
06	SSTD0403B	SSTD0403B	S3I0956.D	06/18/2012	15:30
07	GP-24 8-12	L1326-06B	S3I0964.D	06/18/2012	19:23

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

EPA SAMPLE NO.

DFTPP3D

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab File ID: S3I1010.D DFTPP Injection Date: 06/21/2012
Instrument ID: S3 DFTPP Injection Time: 17:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.8
68	Less than 2.0% of mass 69	0.3 (0.8)1
69	Mass 69 relative abundance	36.1
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	46.5
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	7.0
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than mass 443	10.7
442	50.0 - 100% of mass 198	73.5
443	15.0 - 24.0% of mass 442	15.0 (20.4)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	SSTD0253D	SSTD0253D	S3I1011.D	06/21/2012	17:33
02	SSTD0053D	SSTD0053D	S3I1012.D	06/21/2012	18:00
03	SSTD0803D	SSTD0803D	S3I1013.D	06/21/2012	18:27
04	SSTD0103D	SSTD0103D	S3I1014.D	06/21/2012	18:53
05	SSTD0603D	SSTD0603D	S3I1015.D	06/21/2012	19:20
06	SSTD0403D	SSTD0403D	S3I1016.D	06/21/2012	19:46

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

EPA SAMPLE NO.

DFTPP3G

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab File ID: S3I1060C.D DFTPP Injection Date: 06/25/2012
Instrument ID: S3 DFTPP Injection Time: 10:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	10.0 - 80.0% of mass 198	46.3
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 60.0% of mass 198	25.5
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than mass 443	9.8
442	50.0 - 100% of mass 198	71.8
443	15.0 - 24.0% of mass 442	14.2 (19.7)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	SSTD0253G	SSTD0253G	S3I1061A.D	06/25/2012	12:02
02	MB-66786	MB-66786	S3I1062.D	06/25/2012	12:47
03	LCS-66786	LCS-66786	S3I1066B.D	06/25/2012	17:11
04	LCSD-66786	LCSD-66786	S3I1067B.D	06/25/2012	17:36

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 06/18/2012 06/18/2012
 EPA Sample No.(SSTD020##) SSTD0253B Date Analyzed: 06/18/2012
 Lab File ID (Standard): S3I0951B.D Time Analyzed: 13:22
 Instrument ID: S3

		IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
		AREA	# RT	AREA	# RT	AREA	# RT
12 HOUR STD		62994	4.985	341941	6.486	276003	8.19
UPPER LIMIT		125988	5.485	683882	6.986	552006	8.69
LOWER LIMIT		31497	4.485	170971	5.986	138002	7.69
EPA SAMPLE NO.							
01	GP-24 8-12	51890	4.982	248981	6.483	198478	8.187

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.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 06/21/2012 06/21/2012
 EPA Sample No.(SSTD020##) SSTD0253G Date Analyzed: 06/25/2012
 Lab File ID (Standard): S3I1061A.D Time Analyzed: 12:02
 Instrument ID: S3

		IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
		AREA	#	AREA	#	AREA	#
	12 HOUR STD	28662		178876		174992	
	UPPER LIMIT	57324		357752		349984	
	LOWER LIMIT	14331		89438		87496	
	EPA SAMPLE NO.						
01	MB-66786	56377	4.886	224803	6.403	172451	8.107
02	LCS-66786	54308	4.887	228938	6.404	171050	8.108
03	LCSD-66786	53088	4.888	243821	6.399	190896	8.109

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 EPA Sample No.(SSTD020##) SSTD0253B Date Analyzed: 06/18/2012
 Lab File ID (Standard): S3I0951B.D Time Analyzed: 13:22
 Instrument ID: S3 GC Column: Rxi-5sil MS ID: 0.25 (mm)

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	613420	9.467	839174	11.78	810275	13.805
UPPER LIMIT	1226840	9.967	1678348	12.28	1620550	14.305
LOWER LIMIT	306710	8.967	419587	11.28	405138	13.305
EPA SAMPLE NO.						
01 GP-24 8-12	476249	9.464	706348	11.766	720261	13.791

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.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 EPA Sample No.(SSTD020##) SSTD0253G Date Analyzed: 06/25/2012
 Lab File ID (Standard): S3I1061A.D Time Analyzed: 12:02
 Instrument ID: S3 GC Column: Rxi-5sil MS ID: 0.25 (mm)

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	440282	9.386	777197	11.677	898897	13.643
UPPER LIMIT	880564	9.886	1554394	12.177	1797794	14.143
LOWER LIMIT	220141	8.886	388599	11.177	449449	13.143
EPA SAMPLE NO.						
01 MB-66786	441483	9.384	900195	11.680	1159764	13.651
02 LCS-66786	376303	9.384	632028	11.670	804882	13.630
03 LCSD-66786	444229	9.385	755571	11.671	934589	13.631

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

EPA SAMPLE NO.

GP-24 8-12

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1326-06B

Sample wt/vol: 15.1 (g/mL) G Lab File ID: S3I0964.D

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

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/15/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/18/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	820	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	820	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	820	U
100-02-7	4-Nitrophenol	820	U
132-64-9	Dibenzofuran	400	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-24 8-12

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1326-06B

Sample wt/vol: 15.1 (g/mL) G Lab File ID: S3I0964.D

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

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/15/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/18/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	820	U
534-52-1	4,6-Dinitro-2-methylphenol	820	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	820	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	210	J
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	Bis(2-ethylhexyl)phthalate	110	J
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

Data File: \\avogadro\organics\S3.I\120618.B\S3I0964.D
 Report Date: 19-Jun-2012 14:40

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120618.B\S3I0964.D
 Lab Smp Id: L1326-06B Client Smp ID: GP-24 8-12
 Inj Date : 18-JUN-2012 19:23
 Operator : PK/DL SRC: LIMS Inst ID: S3.i
 Smp Info : L1326-06B,,66786
 Misc Info :
 Comment :
 Method : \\avogadro\organics\S3.I\120618.B\s3_8270C_N.m
 Meth Date : 19-Jun-2012 14:40 pkaczorows Quant Type: ISTD
 Cal Date : 18-JUN-2012 15:30 Cal File: S3I0956.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: allnew.sub
 Target Version: 4.14
 Processing Host: TARGET113

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * (\text{Vt}/\text{Vi}) * (1/\text{Ws}) * (100/(100-\text{M})) * \text{CpndVariable}$

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	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 3 2-Fluorophenol	112	3.315	3.312 (0.665)		75199	46.6862	3100
* 5 Phenol-d5	99	4.469	4.466 (0.897)		113449	42.6035	2800
* 12 1,4-Dichlorobenzene-d4	152	4.981	4.985 (1.000)		51890	40.0000	(Q)
\$ 22 Nitrobenzene-d5	82	5.665	5.668 (0.874)		77773	38.4134	2500
* 31 Naphthalene-d8	136	6.483	6.486 (1.000)		248981	40.0000	
\$ 41 2-Fluorobiphenyl	172	7.567	7.570 (0.924)		202693	38.0602	2500
* 48 Acenaphthene-d10	164	8.187	8.190 (1.000)		198478	40.0000	
\$ 60 2,4,6-Tribromophenol	330	8.871	8.874 (0.937)		40415	43.2041	2900
* 64 Phenanthrene-d10	188	9.463	9.467 (1.000)		476249	40.0000	
68 Di-n-butylphthalate	149	9.918	9.921 (1.048)		34922	2.57119	170(a)
\$ 72 Terphenyl-d14	244	10.778	10.781 (0.916)		458881	42.7503	2800
78 bis(2-Ethylhexyl)phthalate	149	11.718	11.726 (0.996)		13998	1.33864	89(a)
* 76 Chrysene-d12	240	11.766	11.780 (1.000)		706348	40.0000	
* 83 Perylene-d12	264	13.791	13.804 (1.000)		720261	40.0000	

QC Flag Legend

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

Data File: \\avogadro\organics\S3.I\120618.B\S3I0964.D
Report Date: 19-Jun-2012 14:40

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120618.B\S3I0964.D
 Lab Smp Id: L1326-06B Client Smp ID: GP-24 8-12
 Inj Date : 18-JUN-2012 19:23
 Operator : PK/DL SRC: LIMS Inst ID: S3.i
 Smp Info : L1326-06B,,66786
 Misc Info :
 Comment :
 Method : \\avogadro\organics\S3.I\120618.B\s3_8270C_N.m
 Meth Date : 19-Jun-2012 14:40 pkaczorows Quant Type: ISTD
 Cal Date : 18-JUN-2012 15:30 Cal File: S3I0956.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: allnew.sub
 Target Version: 4.14
 Processing Host: TARGET113

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * (\text{Vt}/\text{Vi}) * (1/\text{Ws}) * (100/(100-\text{M})) * \text{CpndVariable}$

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

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	4.982	309741	40.000
* 76 Chrysene-d12	11.766	1862027	40.000
* 83 Perylene-d12	13.791	1899516	40.000

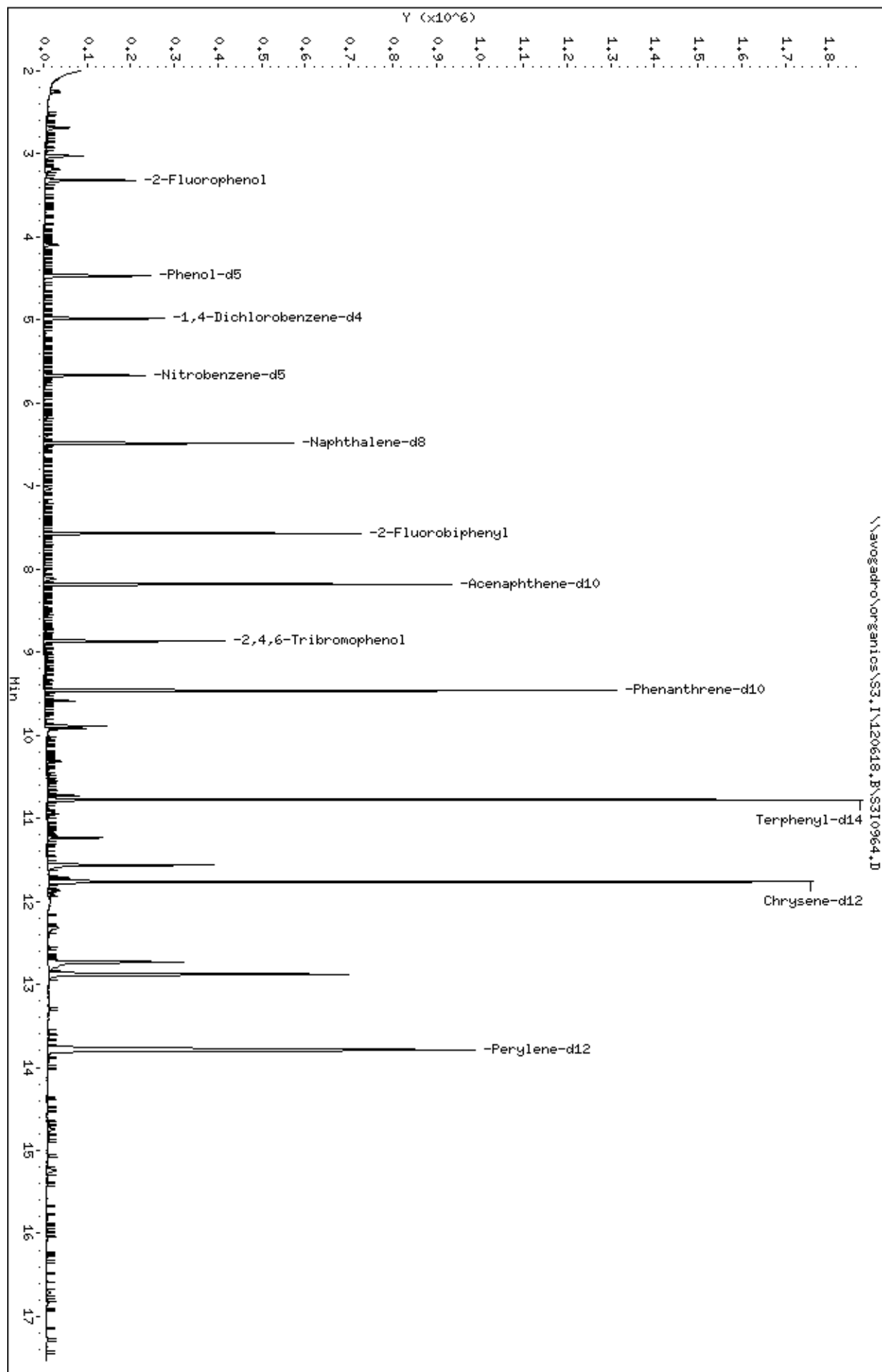
RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ng)	FINAL(ug/Kg)		LIBRARY	LIB ENTRY	
Unknown							
4.095	45392	5.86194472	390	0		0	12
3-Eicosene, (E)-					CAS #: 74685-33-9		
11.563	415299	8.92143011	590	96	NIST2002.L	106400	76
13-Docosenamide, (Z)-					CAS #: 112-84-5		
12.733	513324	11.0272057	730	94	NIST2002.L	135943	76

Data File: \\avogadro\organics\S3.I\120618.B\S3I0964.D
 Report Date: 19-Jun-2012 14:40

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(	ng)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
2,6,10,14,18,22-Tetracosahexaene, 2,6,10							
				CAS #: 111-02-4			
12.878	946548	19.9324088	1300	97	NIST2002.L	158519	83

Data File: \\avogadro\organics\S3,I\120618,B\S3I0964.D
 Date : 18-JUN-2012 19:23
 Client ID: GP-24 8-12
 Sample Info: L1326-06B,66786
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK/DL SRC: LIMS
 Column diameter: 0.25



Data File: \\avogadro\organics\S3.I\120618.B\S3I0964.D

Date : 18-JUN-2012 19:23

Client ID: GP-24 8-12

Instrument: S3.i

Sample Info: L1326-06B,,66786

Volume Injected (uL): 1.0

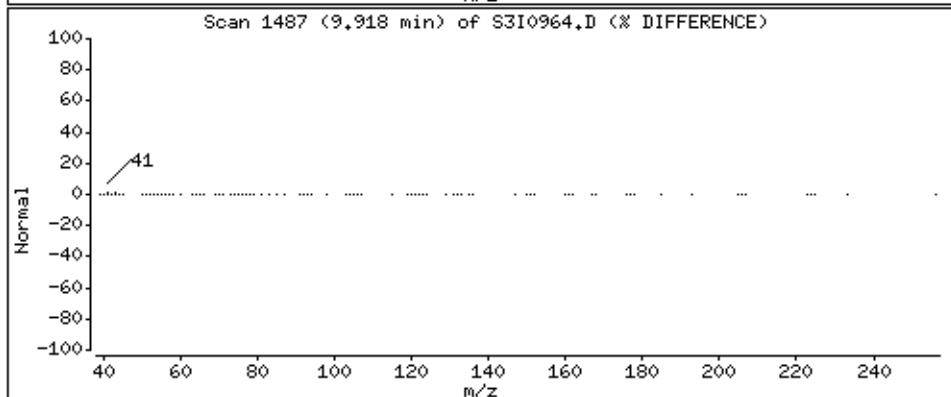
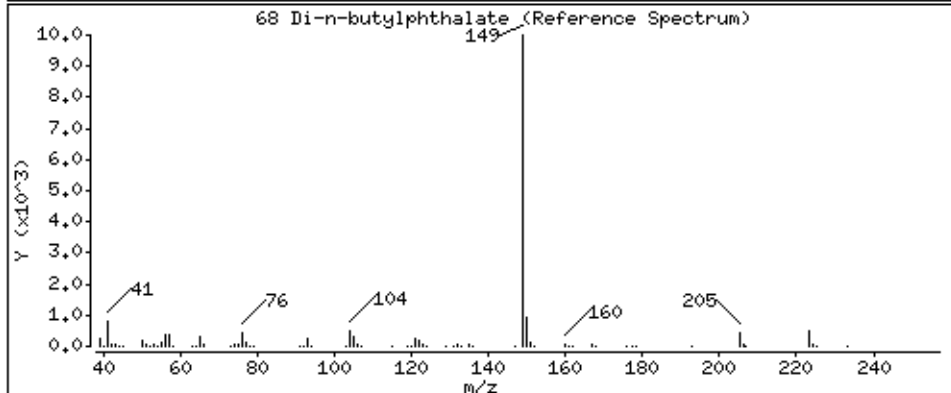
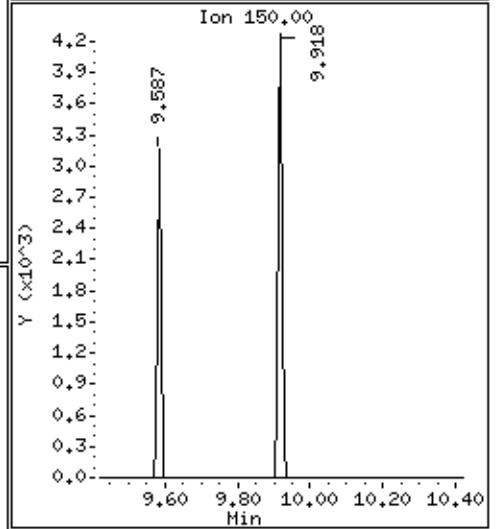
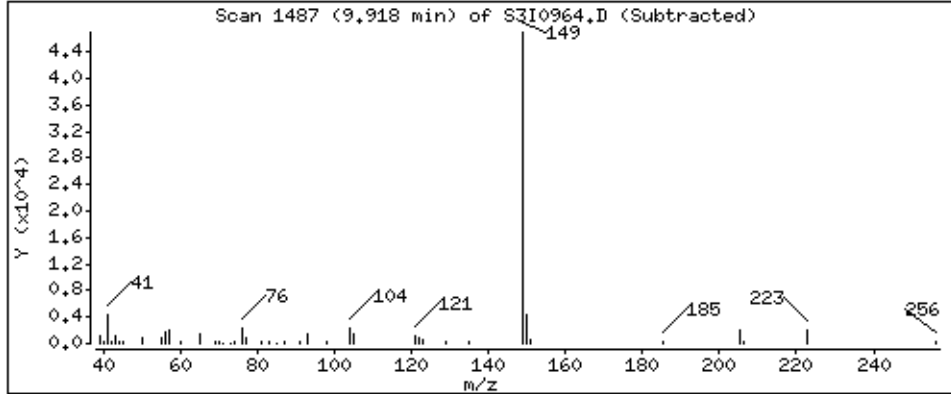
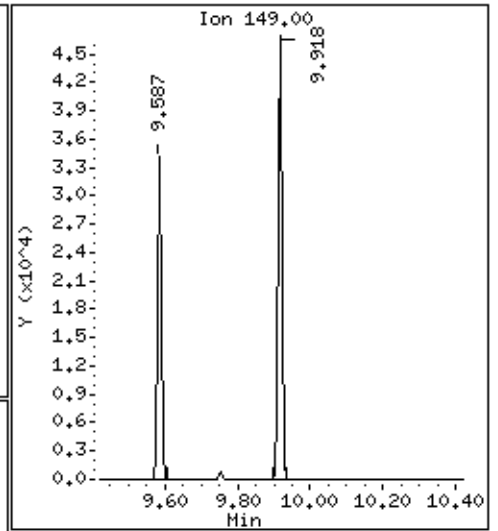
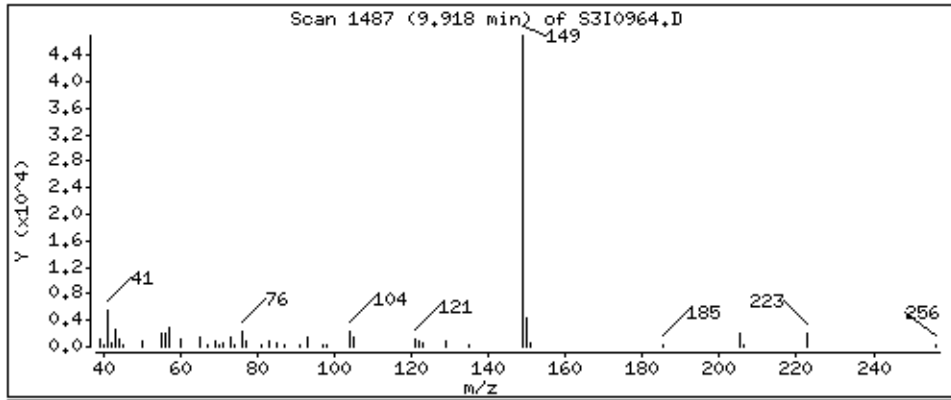
Operator: PK/DL SRC: LIMS

Column phase: Rxi-5Sil MS

Column diameter: 0.25

68 Di-n-butylphthalate

Concentration: 170 ug/Kg



Data File: \\avogadro\organics\S3.I\120618.B\S3I0964.D

Date : 18-JUN-2012 19:23

Client ID: GP-24 8-12

Instrument: S3.i

Sample Info: L1326-06B,,66786

Volume Injected (uL): 1.0

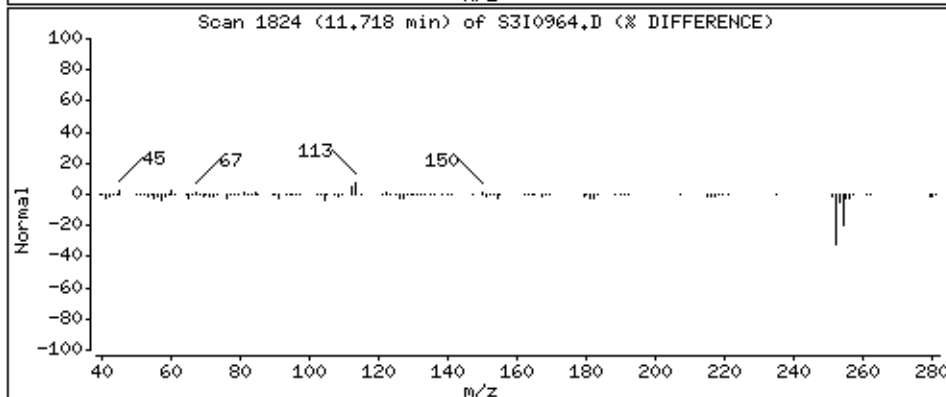
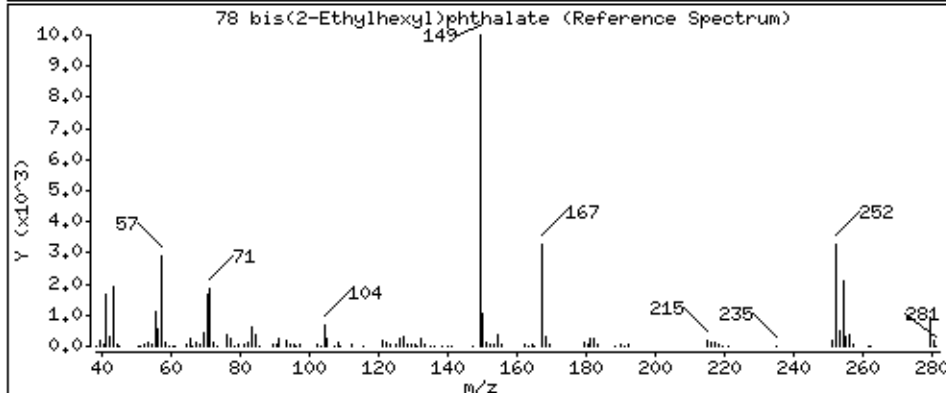
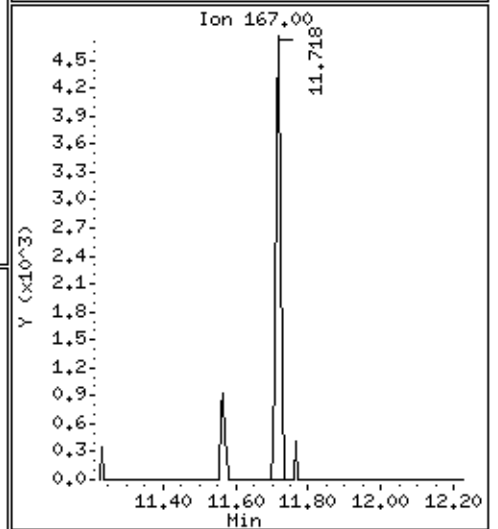
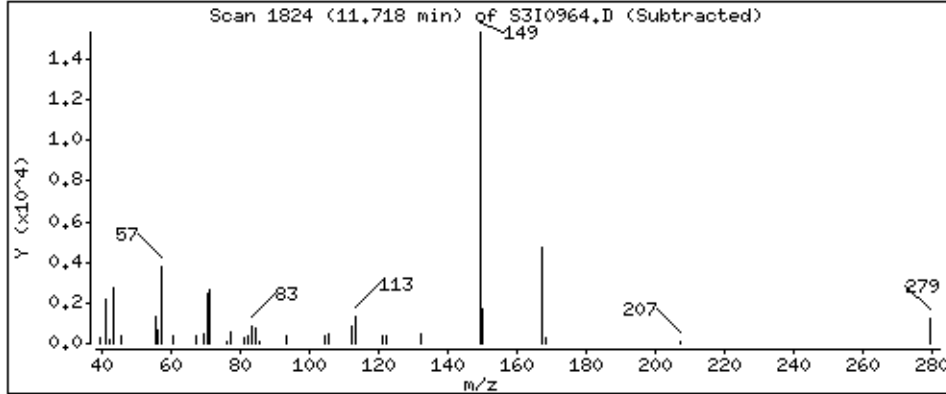
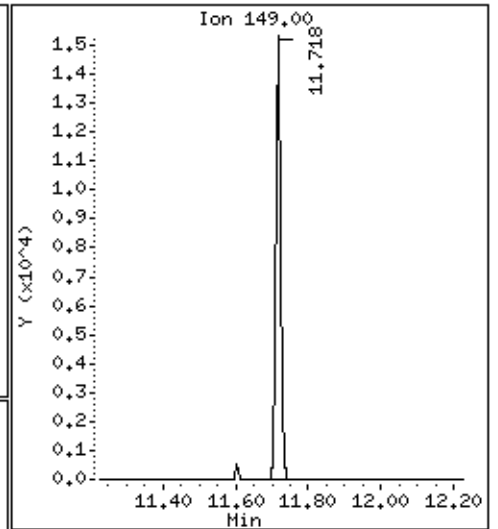
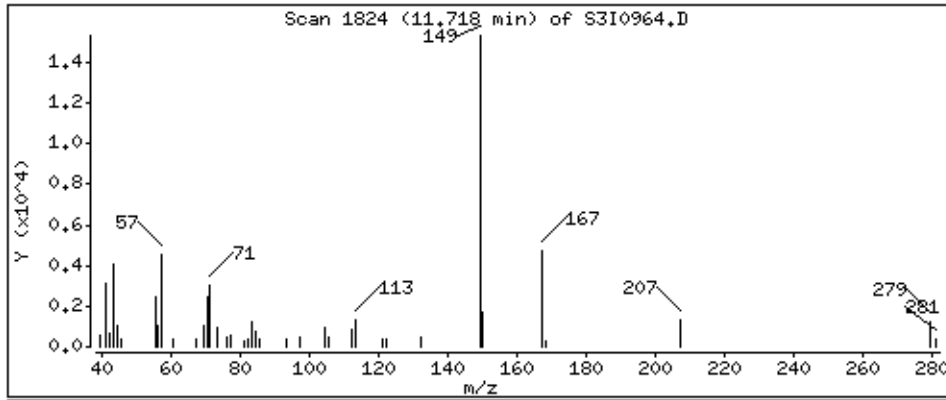
Operator: PK/DL SRC: LIMS

Column phase: Rxi-5Sil MS

Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate

Concentration: 89 ug/Kg



Data File: \\avogadro\organics\S3.I\120618.B\S3I0964.D

Date : 18-JUN-2012 19:23

Client ID: GP-24 8-12

Instrument: S3.i

Sample Info: L1326-06B,,66786

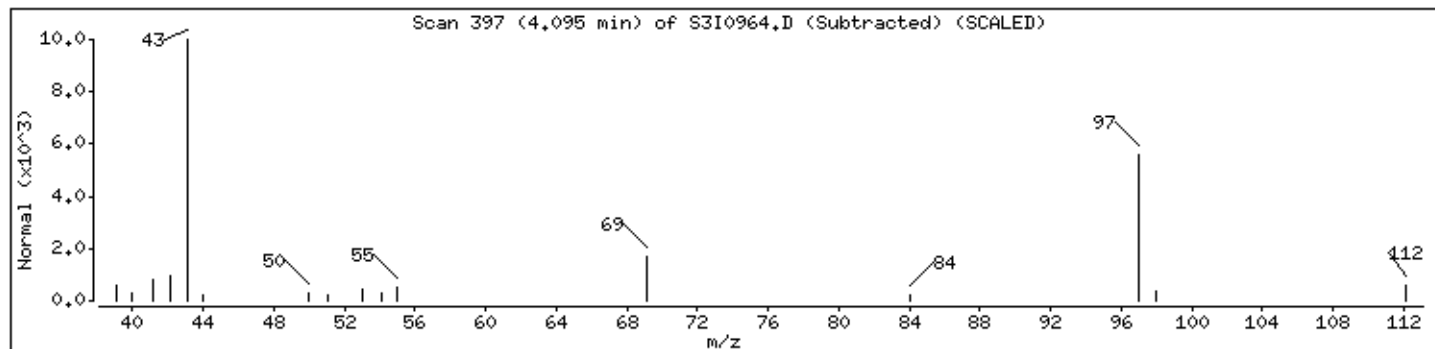
Volume Injected (uL): 1.0

Operator: PK/DL SRC: LIMS

Column phase: Rxi-5Sil MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\avogadro\organics\S3.I\120618.B\S3I0964.D

Date : 18-JUN-2012 19:23

Client ID: GP-24 8-12

Instrument: S3.i

Sample Info: L1326-06B,,66786

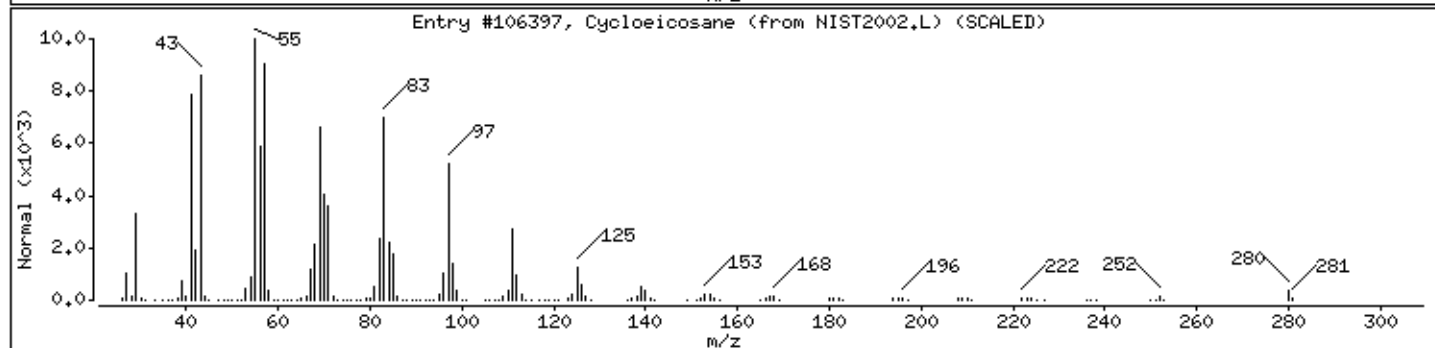
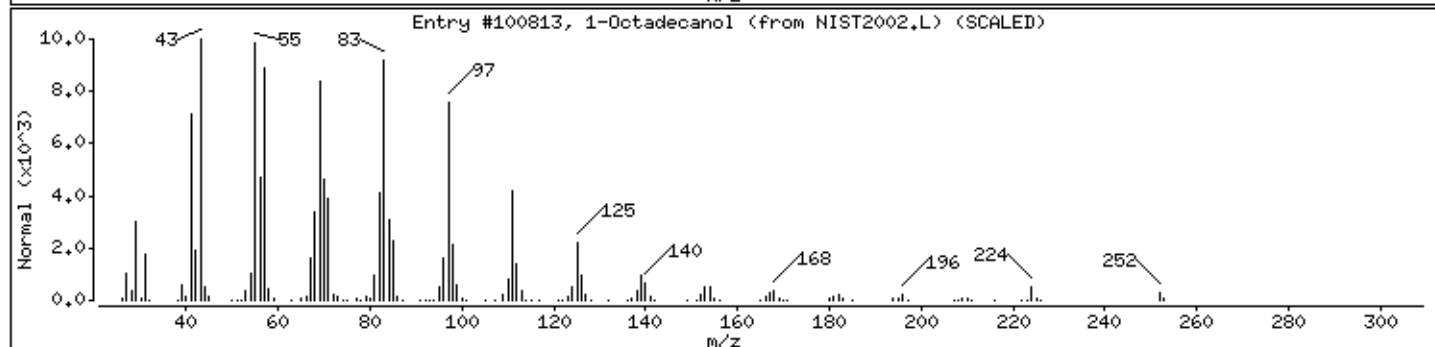
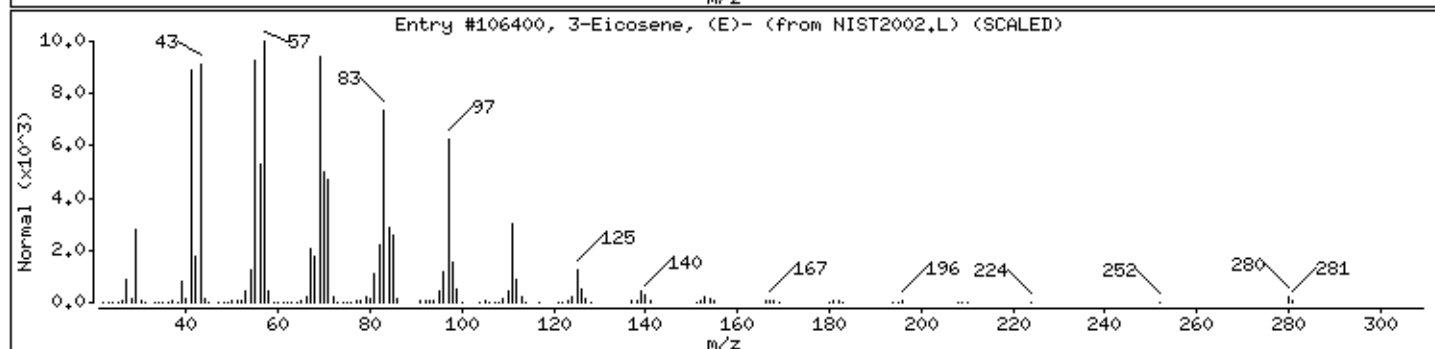
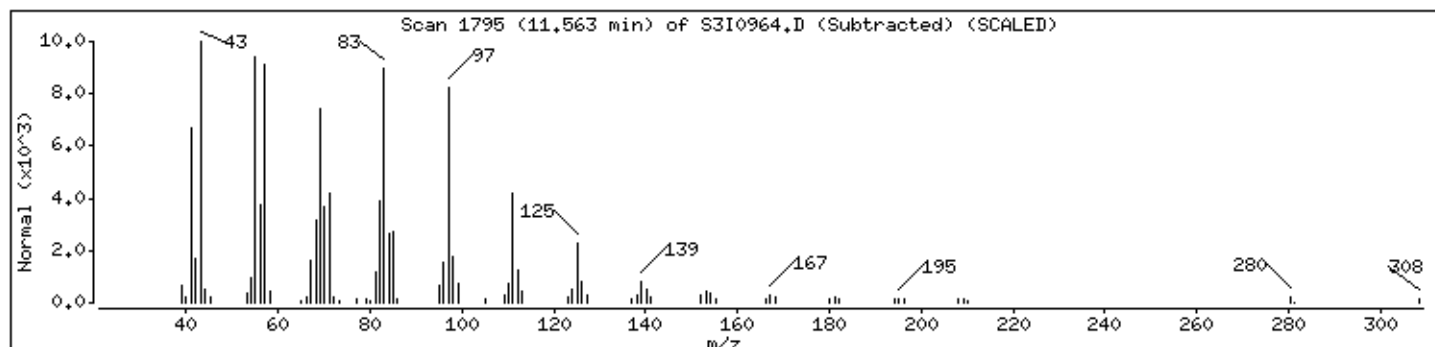
Volume Injected (uL): 1.0

Operator: PK/DL SRC: LIMS

Column phase: Rxi-5Sil MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Eicosene, (E)-	74685-33-9	NIST2002.L	106400	96	C20H40	280
1-Octadecanol	112-92-5	NIST2002.L	100813	95	C18H38O	270
Cycloeicosane	296-56-0	NIST2002.L	106397	95	C20H40	280



Data File: \\avogadro\organics\S3.I\120618.B\S3I0964.D

Date : 18-JUN-2012 19:23

Client ID: GP-24 8-12

Instrument: S3.i

Sample Info: L1326-06B,,66786

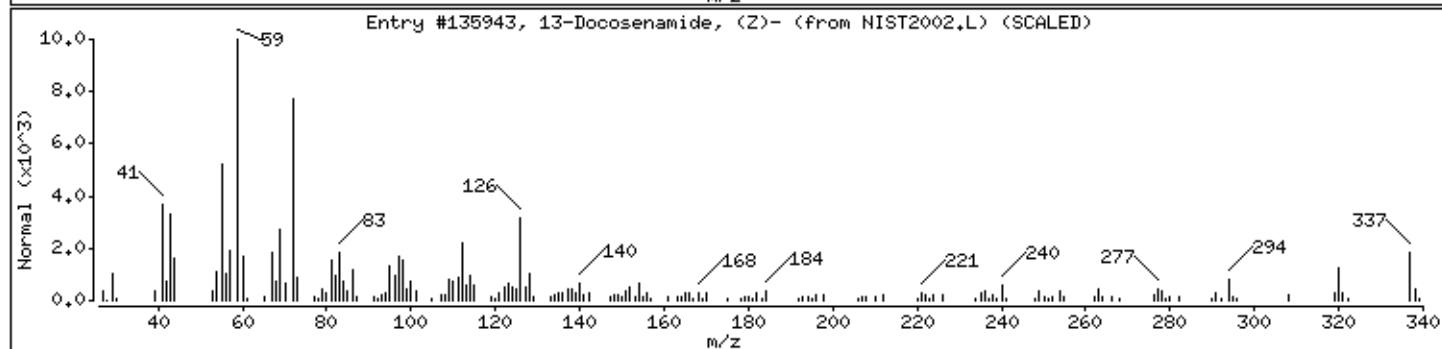
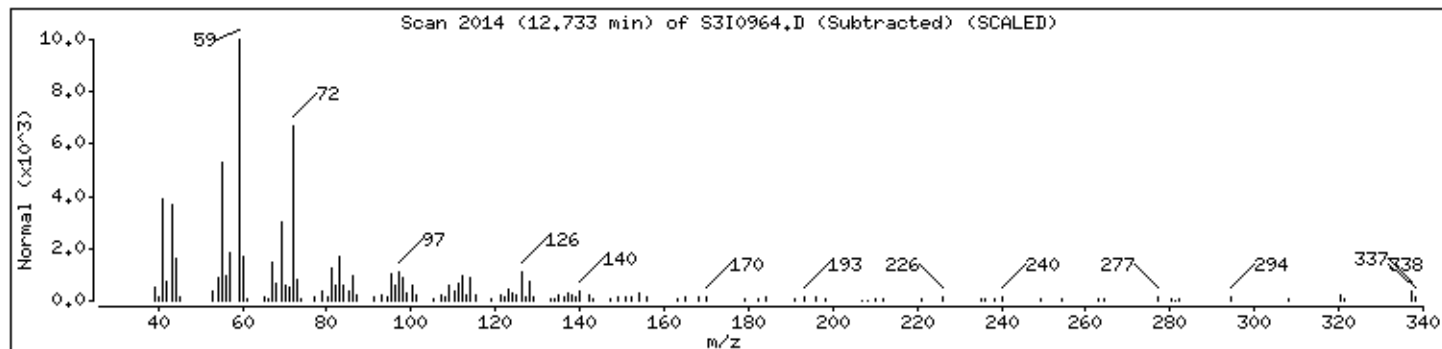
Volume Injected (uL): 1.0

Operator: PK/DL SRC: LIMS

Column phase: Rxi-5Sil MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
13-Docosenamide, (Z)-	112-84-5	NIST2002.L	135943	94	C22H43NO	337



Data File: \\avogadro\organics\S3.I\120618.B\S3I0964.D

Date : 18-JUN-2012 19:23

Client ID: GP-24 8-12

Instrument: S3.i

Sample Info: L1326-06B,,66786

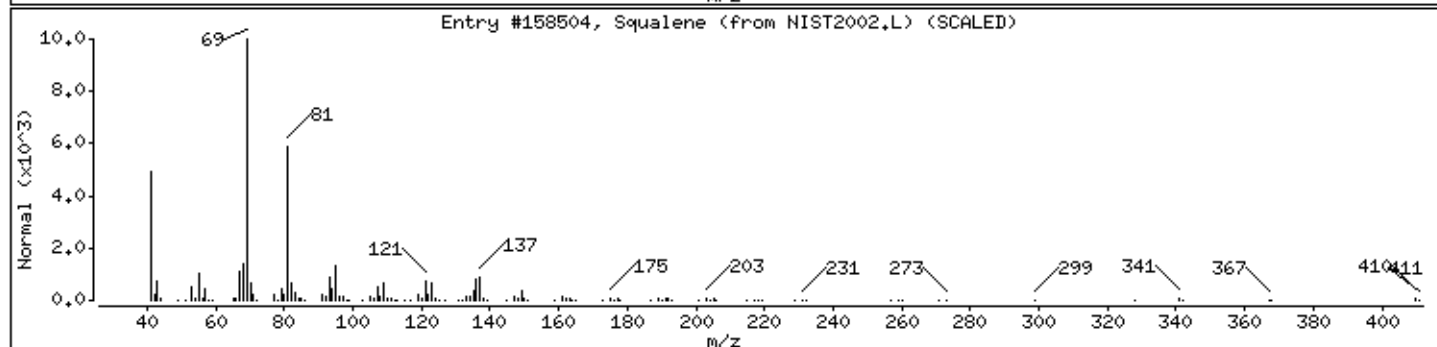
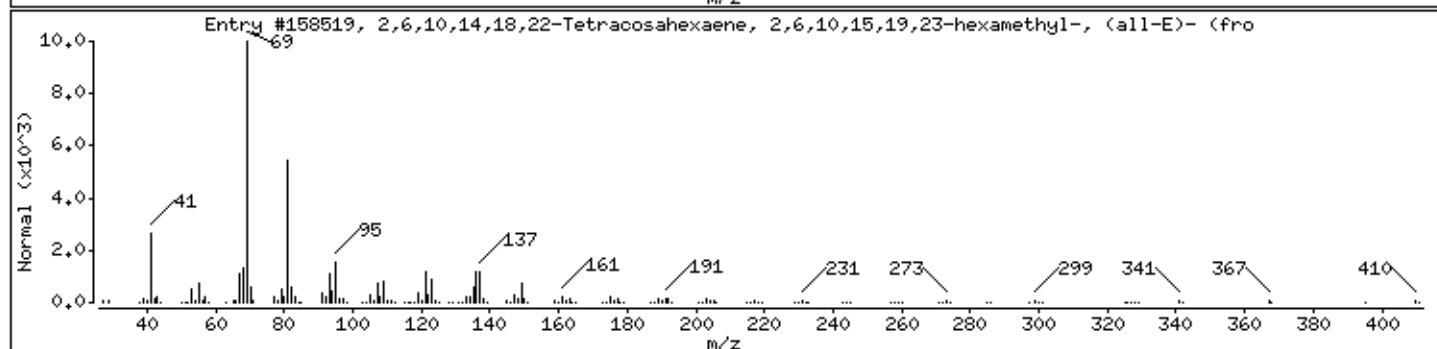
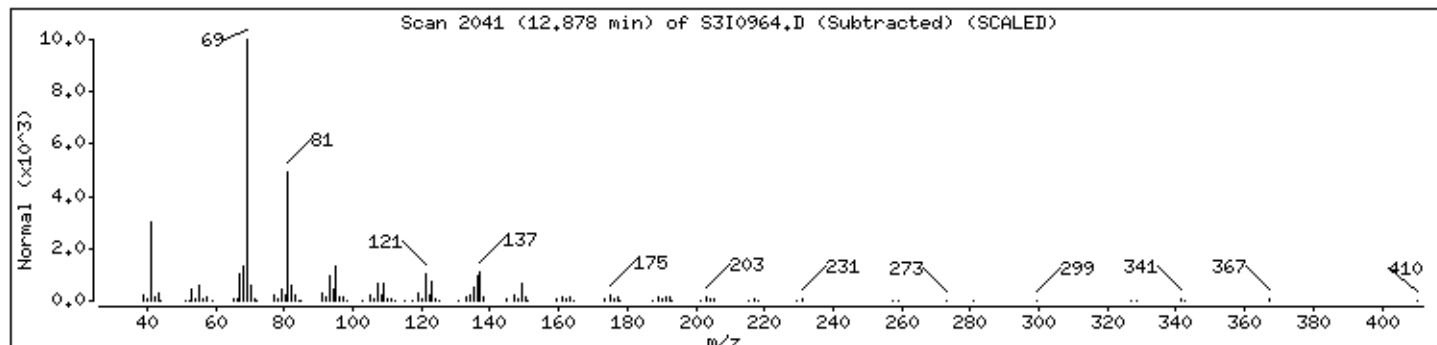
Volume Injected (uL): 1.0

Operator: PK/DL SRC: LIMS

Column phase: Rxi-5Sil MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,6,10,14,18,22-Tetracosahexaene, 2,6,10	111-02-4	NIST2002.L	158519	97	C30H50	410
Squalene	7683-64-9	NIST2002.L	158504	95	C30H50	410



Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L1326 SAS No.: SDG No.: SL1326

Instrument ID: S3 Calibration Date(s): 06/18/2012 06/18/2012

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm) Calibration Times: 13:22 15:30

LAB FILE ID: RRF005 = S3I0953.D RRF010 = S3I0955.D RRF025 = S3I0951B.D RRF040 = S3I0956.D RRF060 = S3I0954.D
RRF080 = S3I0952.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080	RRF		% RSD	
Phenol	1.953	1.848	2.034	2.276	2.102	2.202			2.069	7.6
Bis(2-chloroethyl)ether	1.088	1.005	1.073	1.096	1.077	1.076			1.069	3.0
2-Chlorophenol	1.390	1.315	1.436	1.550	1.545	1.579			1.469	7.2
1,3-Dichlorobenzene	1.418	1.266	1.308	1.314	1.355	1.358			1.336	3.9
1,4-Dichlorobenzene	1.464	1.311	1.361	1.363	1.415	1.407			1.387	3.8
1,2-Dichlorobenzene	1.369	1.296	1.344	1.378	1.389	1.392			1.361	2.7
2-Methylphenol	1.426	1.426	1.565	1.765	1.597	1.682			1.577	8.6
2,2'-oxybis(1-Chloropropane)	2.646	2.432	2.537	2.662	2.492	2.514			2.547	3.5
4-Methylphenol	1.710	1.623	1.767	2.029	1.753	1.877			1.793	7.9
N-Nitroso-di-n-propylamine	1.374	1.286	1.334	1.483	1.262	1.322			1.343	5.8
Hexachloroethane	0.470	0.430	0.464	0.474	0.499	0.483			0.470	5.0
Nitrobenzene	0.325	0.314	0.324	0.339	0.356	0.351			0.335	4.9
Isophorone	0.740	0.689	0.731	0.757	0.739	0.729			0.731	3.1
2-Nitrophenol	0.146	0.137	0.146	0.159	0.176	0.168			0.155	9.4
2,4-Dimethylphenol	0.277	0.293	0.327	0.334	0.375	0.375			0.330	12.3
2,4-Dichlorophenol	0.286	0.264	0.285	0.301	0.305	0.302			0.290	5.3
1,2,4-Trichlorobenzene	0.273	0.261	0.274	0.277	0.288	0.282			0.276	3.4
Naphthalene	1.003	0.922	0.956	0.962	0.984	0.960			0.964	2.9
4-Chloroaniline	0.485	0.446	0.473	0.516	0.490	0.490			0.483	4.7
Bis(2-chloroethoxy)methane	0.426	0.384	0.403	0.415	0.414	0.408			0.408	3.5
Hexachlorobutadiene	0.157	0.144	0.140	0.140	0.154	0.147			0.147	4.8
4-Chloro-3-methylphenol	0.393	0.369	0.389	0.425	0.390	0.396			0.394	4.6
2-Methylnaphthalene	0.784	0.738	0.745	0.786	0.751	0.745			0.758	2.8
Hexachlorocyclopentadiene	0.127	0.143	0.151	0.148	0.214	0.198			0.164	21.0
2,4,6-Trichlorophenol	0.308	0.293	0.310	0.311	0.333	0.325			0.313	4.5
2,4,5-Trichlorophenol		0.324	0.339	0.347	0.363	0.353			0.345	4.3
2-Chloronaphthalene	0.954	0.884	0.913	0.886	0.955	0.914			0.918	3.4

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L1326 SAS No.: SDG No.: SL1326

Instrument ID: S3 Calibration Date(s): 06/18/2012 06/18/2012

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm) Calibration Times: 13:22 15:30

LAB FILE ID: RRF005 = S3I0953.D RRF010 = S3I0955.D RRF025 = S3I0951B.D RRF040 = S3I0956.D RRF060 = S3I0954.D
RRF080 = S3I0952.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080	RRF		% RSD	
2-Nitroaniline		0.297	0.303	0.329	0.348	0.337			0.323	6.8
Dimethylphthalate	1.372	1.259	1.273	1.291	1.298	1.258			1.292	3.3
Acenaphthylene	1.733	1.576	1.645	1.638	1.698	1.660			1.658	3.3
2,6-Dinitrotoluene	0.252	0.256	0.267	0.292	0.310	0.304			0.280	9.0
3-Nitroaniline		0.324	0.332	0.366	0.361	0.348			0.346	5.3
Acenaphthene	1.088	0.981	1.026	1.019	1.061	1.022			1.033	3.6
2,4-Dinitrophenol		0.039	0.052	0.088	0.109	0.118			0.081	43.0
4-Nitrophenol		0.195	0.197	0.214	0.208	0.212			0.205	4.2
Dibenzofuran	1.572	1.454	1.479	1.475	1.513	1.478			1.495	2.8
2,4-Dinitrotoluene	0.315	0.342	0.359	0.412	0.436	0.434			0.383	13.4
Diethylphthalate	1.485	1.368	1.362	1.382	1.377	1.339			1.385	3.7
4-Chlorophenyl-phenylether	0.665	0.597	0.617	0.623	0.651	0.634			0.631	3.9
Fluorene	1.433	1.294	1.331	1.344	1.355	1.323			1.347	3.5
4-Nitroaniline		0.400	0.374	0.419	0.393	0.383			0.394	4.4
4,6-Dinitro-2-methylphenol		0.041	0.058	0.081	0.094	0.099			0.075	32.6
N-Nitrosodiphenylamine	0.537	0.497	0.534	0.522	0.539	0.514			0.524	3.1
4-Bromophenyl-phenylether	0.172	0.157	0.171	0.168	0.183	0.180			0.172	5.3
Hexachlorobenzene	0.186	0.173	0.181	0.182	0.194	0.191			0.185	4.2
Pentachlorophenol		0.120	0.139	0.134	0.147	0.150			0.138	8.4
Phenanthrene	0.975	0.895	0.929	0.927	0.946	0.915			0.931	2.9
Anthracene	0.965	0.902	0.955	0.952	0.976	0.939			0.948	2.7
Carbazole	1.017	0.937	0.900	0.922	0.855	0.817			0.908	7.6
Di-n-butylphthalate	1.188	1.128	1.156	1.148	1.136	1.089			1.141	2.9
Fluoranthene	1.178	1.104	1.141	1.169	1.168	1.147			1.151	2.4
Pyrene	0.919	0.810	0.856	0.833	0.845	0.799			0.843	5.1
Butylbenzylphthalate	0.451	0.405	0.431	0.420	0.430	0.406			0.424	4.1
3,3'-Dichlorobenzidine	0.357	0.334	0.377	0.377	0.384	0.384			0.369	5.3

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L1326 SAS No.: SDG No.: SL1326

Instrument ID: S3 Calibration Date(s): 06/18/2012 06/18/2012

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm) Calibration Times: 13:22 15:30

LAB FILE ID: RRF005 = <u>S3I0953.D</u> RRF010 = <u>S3I0955.D</u> RRF025 = <u>S3I0951B.D</u> RRF040 = <u>S3I0956.D</u> RRF060 = <u>S3I0954.D</u> RRF080 = <u>S3I0952.D</u>										
COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080	RRF		% RSD	
Benzo(a)anthracene	0.994	0.886	0.935	0.930	0.955	0.930			0.938	3.8
Chrysene	0.917	0.821	0.861	0.857	0.861	0.841			0.860	3.7
Bis(2-ethylhexyl)phthalate	0.613	0.566	0.609	0.601	0.597	0.567			0.592	3.5
Di-n-octylphthalate	1.072	0.989	1.119	1.087	1.125	1.058			1.075	4.6
Benzo(b)fluoranthene	0.967	0.894	0.970	1.005	1.044	1.021			0.984	5.4
Benzo(k)fluoranthene	1.022	0.934	1.054	1.029	1.072	1.042			1.025	4.7
Benzo(a)pyrene	0.933	0.861	0.962	0.975	1.007	0.984			0.954	5.4
Indeno(1,2,3-cd)pyrene	1.089	1.024	1.149	1.207	1.186	1.193			1.141	6.3
Dibenzo(a,h)anthracene	0.890	0.847	0.965	1.018	0.998	1.014			0.955	7.4
Benzo(g,h,i)perylene	0.929	0.866	0.974	1.024	0.992	0.995			0.963	5.9

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L1326 SAS No.: SDG No.: SL1326

Instrument ID: S3 Calibration Date(s): 06/18/2012 06/18/2012

Calibration Times: 13:22 15:30

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

LAB FILE ID: RRF005 = S3I0953.D RRF010 = S3I0955.D RRF025 = S3I0951B.D RRF040 = S3I0956.D RRF060 = S3I0954.D
RRF080 = S3I0952.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080	RRF		% RSD
Nitrobenzene-d5	0.316	0.305	0.318	0.320	0.352	0.341		0.325	5.4
2-Fluorobiphenyl	1.117	1.011	1.064	1.044	1.127	1.077		1.073	4.1
Terphenyl-d14	0.641	0.572	0.620	0.597	0.628	0.589		0.608	4.3
Phenol-d5	1.877	1.806	2.024	2.258	2.118	2.233		2.053	9.0
2-Fluorophenol	1.158	1.057	1.206	1.270	1.352	1.407		1.242	10.4
2,4,6-Tribromophenol	0.075	0.070	0.078	0.078	0.085	0.086		0.079	7.8

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L1326 SAS No.: SDG No.: SL1326

Instrument ID: S3 Calibration Date(s): 06/21/2012 06/21/2012

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm) Calibration Times: 17:33 19:46

LAB FILE ID: RRF005 = S3I1012.D RRF010 = S3I1014.D RRF025 = S3I1011.D RRF040 = S3I1016.D RRF060 = S3I1015.D
RRF080 = S3I1013.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080			RRF	% RSD
Phenol	2.060	2.158	2.138	2.394	2.394	2.334			2.246	6.5
Bis(2-chloroethyl)ether	1.076	0.969	1.006	1.060	1.096	1.076			1.047	4.7
2-Chlorophenol	1.387	1.390	1.395	1.552	1.647	1.622			1.499	8.2
1,3-Dichlorobenzene	1.379	1.422	1.310	1.325	1.374	1.348			1.359	3.0
1,4-Dichlorobenzene	1.424	1.488	1.350	1.407	1.416	1.401			1.414	3.1
1,2-Dichlorobenzene	1.426	1.452	1.361	1.457	1.432	1.405			1.422	2.5
2-Methylphenol	1.586	1.579	1.664	1.836	1.846	1.788			1.716	7.1
2,2'-oxybis(1-Chloropropane)	2.433	2.528	2.417	2.602	2.567	2.472			2.503	3.0
4-Methylphenol	1.858	1.880	1.910	2.189	2.084	1.996			1.986	6.5
N-Nitroso-di-n-propylamine	1.279	1.335	1.379	1.534	1.419	1.347			1.382	6.4
Hexachloroethane	0.473	0.436	0.436	0.458	0.472	0.462			0.456	3.7
Nitrobenzene	0.241	0.280	0.276	0.299	0.319	0.316			0.288	10.2
Isophorone	0.692	0.722	0.729	0.748	0.726	0.712			0.722	2.6
2-Nitrophenol	0.120	0.128	0.110	0.151	0.160	0.152			0.137	14.8
2,4-Dimethylphenol	0.243	0.289	0.277	0.316	0.349	0.354			0.305	14.2
2,4-Dichlorophenol	0.261	0.291	0.275	0.296	0.303	0.300			0.288	5.7
1,2,4-Trichlorobenzene	0.290	0.274	0.258	0.264	0.266	0.265			0.269	4.1
Naphthalene	1.046	1.049	0.979	0.993	0.983	0.955			1.001	3.8
4-Chloroaniline	0.506	0.529	0.499	0.538	0.520	0.509			0.517	2.9
Bis(2-chloroethoxy)methane	0.407	0.419	0.411	0.410	0.408	0.403			0.410	1.3
Hexachlorobutadiene	0.138	0.124	0.122	0.119	0.128	0.127			0.126	5.1
4-Chloro-3-methylphenol	0.413	0.432	0.410	0.433	0.400	0.391			0.413	4.0
2-Methylnaphthalene	0.866	0.850	0.808	0.826	0.774	0.751			0.812	5.4
Hexachlorocyclopentadiene	0.072	0.112	0.110	0.123	0.162	0.168			0.124	28.8
2,4,6-Trichlorophenol	0.272	0.308	0.277	0.291	0.298	0.300			0.291	4.8
2,4,5-Trichlorophenol		0.324	0.309	0.347	0.334	0.340			0.331	4.5
2-Chloronaphthalene	0.905	0.918	0.866	0.866	0.871	0.866			0.882	2.6

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L1326 SAS No.: SDG No.: SL1326

Instrument ID: S3 Calibration Date(s): 06/21/2012 06/21/2012

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm) Calibration Times: 17:33 19:46

LAB FILE ID: RRF005 = S3I1012.D RRF010 = S3I1014.D RRF025 = S3I1011.D RRF040 = S3I1016.D RRF060 = S3I1015.D
RRF080 = S3I1013.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080	RRF		% RSD	
2-Nitroaniline		0.255	0.238	0.304	0.304	0.304			0.281	11.5
Dimethylphthalate	1.464	1.435	1.357	1.368	1.288	1.259			1.362	5.8
Acenaphthylene	1.771	1.775	1.709	1.695	1.674	1.629			1.709	3.3
2,6-Dinitrotoluene	0.171	0.280	0.266	0.312	0.313	0.310			0.275	19.8
3-Nitroaniline		0.426	0.381	0.429	0.407	0.390			0.407	5.3
Acenaphthene	1.095	1.106	1.047	1.042	1.015	1.001			1.051	4.0
2,4-Dinitrophenol		0.047	0.040	0.103	0.107	0.109			0.081	42.6
4-Nitrophenol		0.219	0.170	0.196	0.172	0.170			0.185	11.7
Dibenzofuran	1.789	1.661	1.560	1.543	1.487	1.456			1.583	7.8
2,4-Dinitrotoluene	0.266	0.402	0.369	0.472	0.451	0.447			0.401	18.9
Diethylphthalate	1.574	1.561	1.420	1.428	1.337	1.302			1.437	7.8
4-Chlorophenyl-phenylether	0.677	0.663	0.610	0.629	0.599	0.585			0.627	5.8
Fluorene	1.568	1.528	1.393	1.404	1.316	1.265			1.412	8.3
4-Nitroaniline		0.568	0.481	0.520	0.463	0.441			0.495	10.2
4,6-Dinitro-2-methylphenol		0.046	0.039	0.086	0.094	0.094			0.072	37.7
N-Nitrosodiphenylamine	0.514	0.539	0.521	0.516	0.530	0.506			0.521	2.3
4-Bromophenyl-phenylether	0.158	0.160	0.160	0.158	0.166	0.165			0.161	2.2
Hexachlorobenzene	0.187	0.176	0.171	0.169	0.172	0.172			0.174	3.8
Pentachlorophenol		0.127	0.112	0.129	0.135	0.134			0.127	7.2
Phenanthrene	1.028	1.006	0.937	0.926	0.918	0.859			0.946	6.6
Anthracene	0.992	0.996	0.945	0.955	0.951	0.903			0.957	3.6
Carbazole	1.268	1.205	1.062	1.027	0.949	0.874			1.064	14.1
Di-n-butylphthalate	1.182	1.213	1.161	1.153	1.111	1.045			1.144	5.2
Fluoranthene	1.486	1.432	1.264	1.267	1.173	1.091			1.286	11.7
Pyrene	0.737	0.771	0.794	0.775	0.792	0.765			0.772	2.7
Butylbenzylphthalate	0.329	0.372	0.384	0.397	0.408	0.395			0.381	7.5
3,3'-Dichlorobenzidine	0.356	0.375	0.363	0.360	0.332	0.318			0.351	6.1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: L1326 SAS No.: SDG No.: SL1326

Instrument ID: S3 Calibration Date(s): 06/21/2012 06/21/2012

GC Column: Rxi-5sil MS ID: 0.25 (mm) Length: 30 (mm) Calibration Times: 17:33 19:46

LAB FILE ID: RRF005 = S3I1012.D RRF010 = S3I1014.D RRF025 = S3I1011.D RRF040 = S3I1016.D RRF060 = S3I1015.D
 RRF080 = S3I1013.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080	RRF		% RSD
Benzo(a)anthracene	1.012	1.008	0.941	0.953	0.926	0.900		0.957	4.7
Chrysene	0.954	0.954	0.903	0.884	0.879	0.827		0.900	5.4
Bis(2-ethylhexyl)phthalate	0.521	0.563	0.574	0.575	0.579	0.554		0.561	3.9
Di-n-octylphthalate	0.735	0.868	0.917	0.926	0.975	0.945		0.894	9.6
Benzo(b)fluoranthene	0.928	0.951	0.948	0.941	0.973	0.949		0.948	1.6
Benzo(k)fluoranthene	1.060	1.077	1.046	1.034	1.000	0.979		1.033	3.6
Benzo(a)pyrene	0.955	0.967	0.954	0.965	0.965	0.948		0.959	0.8
Indeno(1,2,3-cd)pyrene	1.250	1.250	1.222	1.274	1.249	1.211		1.242	1.8
Dibenzo(a,h)anthracene	1.001	1.029	1.004	1.041	1.023	0.997		1.016	1.7
Benzo(g,h,i)perylene	1.117	1.119	1.069	1.104	1.069	1.037		1.086	3.0

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM

Case No.: L1326

SAS No.:

SDG No.: SL1326

Instrument ID: S3

Calibration Date(s): 06/21/2012

06/21/2012

Calibration Times:

17:33

19:46

GC Column: Rxi-5sil MS

ID: 0.25

(mm)

Length: 30

(mm)

LAB FILE ID: RRF005 = S3I1012.D RRF010 = S3I1014.D RRF025 = S3I1011.D RRF040 = S3I1016.D RRF060 = S3I1015.DRRF080 = S3I1013.D

COMPOUND	RRF005	RRF010	RRF025	RRF040	RRF060	RRF080	RRF		% RSD
Nitrobenzene-d5	0.227	0.258	0.262	0.289	0.307	0.306		0.275	11.4
2-Fluorobiphenyl	1.038	1.056	1.032	1.007	1.027	1.025		1.031	1.6
Terphenyl-d14	0.512	0.542	0.557	0.552	0.561	0.546		0.545	3.3
Phenol-d5	2.052	2.057	2.063	2.396	2.377	2.341		2.214	7.8
2-Fluorophenol	1.131	1.146	1.127	1.266	1.379	1.388		1.240	9.9
2,4,6-Tribromophenol	0.062	0.066	0.062	0.072	0.077	0.076		0.069	9.8

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120618.B\S3I0951B.D
Lab Smp Id: SST0253B Client Smp ID: SST0253B
Inj Date : 18-JUN-2012 13:22
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SST0253B, SST0253B
Misc Info : 2,3
Comment :
Method : \\avogadro\organics\S3.I\120618.B\s3_8270C_N.m
Meth Date : 19-Jun-2012 14:37 pkaczorows Quant Type: ISTD
Cal Date : 18-JUN-2012 15:30 Cal File: S3I0956.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

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	
\$ 109 1,4-Dioxane-d8	96	2.127	2.127	(0.427)	10414	25.0000	26	
108 1,4-Dioxane	58	2.143	2.143	(0.430)	8592	25.0000	26	
1 N-Nitrosodimethylamine	74	2.303	2.303	(0.462)	29398	25.0000	25	
2 Pyridine	79	2.351	2.351	(0.472)	49230	25.0000	25	
\$ 3 2-Fluorophenol	112	3.312	3.312	(0.665)	47494	25.0000	24	
101 Benzaldehyde	77	4.402	4.402	(0.883)	50028	25.0000	30	
\$ 5 Phenol-d5	99	4.466	4.466	(0.896)	79696	25.0000	25	
6 Phenol	94	4.482	4.482	(0.899)	80067	25.0000	24	
7 Aniline	66	4.541	4.541	(0.911)	37276	25.0000	24	
8 bis(2-Chloroethyl)Ether	63	4.616	4.616	(0.926)	42229	25.0000	25	
10 2-Chlorophenol	128	4.701	4.701	(0.943)	56540	25.0000	24	
11 1,3-Dichlorobenzene	146	4.910	4.910	(0.985)	51497	25.0000	24	
* 12 1,4-Dichlorobenzene-d4	152	4.985	4.985	(1.000)	62994	40.0000		
13 1,4-Dichlorobenzene	146	5.006	5.006	(1.004)	53591	25.0000	24	
117 2-Ethyl-1-hexanol	57	5.059	5.059	(1.015)	69095	25.0000	25	
15 Benzyl Alcohol	108	5.150	5.150	(1.033)	46396	25.0000	25	
16 1,2-Dichlorobenzene	146	5.198	5.198	(1.043)	52913	25.0000	25	
17 2-Methylphenol	108	5.294	5.294	(1.062)	61623	25.0000	25	
18 2,2'-oxybis(1-Chloropropane)	45	5.326	5.326	(1.069)	99869	25.0000	25	
99 Acetophenone	105	5.481	5.481	(1.100)	103405	25.0000	25	

Data File: \\avogadro\organics\S3.I\120618.B\S3I0951B.D
Report Date: 19-Jun-2012 14:39

						AMOUNTS	
		QUANT	SIG			CAL - AMT	ON - COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
19 N-Nitroso-di-n-propylamine	70	5.487	5.487	(1.101)	52510	25.0000	25
20 4-Methylphenol	108	5.487	5.487	(1.101)	69563	25.0000	25
21 Hexachloroethane	117	5.620	5.620	(1.128)	18259	25.0000	25
\$ 22 Nitrobenzene-d5	82	5.668	5.668	(0.874)	67907	25.0000	24
23 Nitrobenzene	77	5.690	5.690	(0.877)	69328	25.0000	24
24 Isophorone	82	5.973	5.973	(0.921)	156294	25.0000	25
25 2-Nitrophenol	139	6.064	6.064	(0.935)	31271	25.0000	24
26 2,4-Dimethylphenol	107	6.122	6.122	(0.944)	69911	25.0000	25
27 bis(2-Chloroethoxy)methane	93	6.224	6.224	(0.960)	86190	25.0000	25
28 Benzoic Acid	105	6.229	6.229	(0.960)	64233	25.0000	23
29 2,4-Dichlorophenol	162	6.331	6.331	(0.976)	60949	25.0000	24
30 1,2,4-Trichlorobenzene	180	6.427	6.427	(0.991)	58587	25.0000	25
* 31 Naphthalene-d8	136	6.486	6.486	(1.000)	341941	40.0000	
32 Naphthalene	128	6.507	6.507	(1.003)	204298	25.0000	25
115 alpha-Terpineol	59	6.523	6.523	(1.006)	49091	25.0000	24
33 4-Chloroaniline	127	6.571	6.571	(1.013)	101060	25.0000	24
34 Hexachlorobutadiene	225	6.651	6.651	(1.026)	30025	25.0000	24
102 Caprolactam	113	6.929	6.929	(1.068)	41387	25.0000	25
35 4-Chloro-3-Methylphenol	107	7.079	7.079	(1.091)	83164	25.0000	25
36 2-Methylnaphthalene	142	7.218	7.218	(1.113)	159233	25.0000	24
114 1-Methylnaphthalene	142	7.314	7.314	(1.128)	150893	25.0000	25
38 Hexachlorocyclopentadiene	237	7.378	7.378	(0.901)	26112	25.0000	23
112 1,2,4,5-Tetrachlorobenzene	216	7.383	7.383	(0.902)	70861	25.0000	24
39 2,4,6-Trichlorophenol	196	7.495	7.495	(0.915)	53440	25.0000	25
40 2,4,5-Trichlorophenol	196	7.527	7.527	(0.919)	58562	25.0000	24
\$ 41 2-Fluorobiphenyl	172	7.570	7.570	(0.924)	183464	25.0000	25
98 1,1'-Biphenyl	154	7.661	7.661	(0.935)	218173	25.0000	25
42 2-Chloronaphthalene	162	7.682	7.682	(0.938)	157414	25.0000	25
43 2-Nitroaniline	65	7.773	7.773	(0.949)	52230	25.0000	23
44 Dimethylphthalate	163	7.939	7.939	(0.969)	219524	25.0000	25
45 2,6-Dinitrotoluene	165	7.992	7.992	(0.976)	46024	25.0000	24
46 Acenaphthylene	152	8.062	8.062	(0.984)	283730	25.0000	25
47 3-Nitroaniline	138	8.142	8.142	(0.994)	57221	25.0000	24
* 48 Acenaphthene-d10	164	8.190	8.190	(1.000)	276003	40.0000	
49 Acenaphthene	153	8.217	8.217	(1.003)	177030	25.0000	25
50 2,4-Dinitrophenol	184	8.233	8.233	(1.005)	8906	25.0000	16(aQ)
51 4-Nitrophenol	109	8.286	8.286	(1.012)	33924	25.0000	24
53 2,4-Dinitrotoluene	165	8.345	8.345	(1.019)	61973	25.0000	23
52 Dibenzofuran	168	8.366	8.366	(1.022)	255213	25.0000	25
110 2,3,4,6-Tetrachlorophenol	232	8.473	8.473	(1.035)	54337	25.0000	24
54 Diethylphthalate	149	8.553	8.553	(1.044)	234939	25.0000	24
56 4-Chlorophenyl-phenylether	204	8.655	8.655	(1.057)	106440	25.0000	24
55 Fluorene	166	8.665	8.665	(1.058)	229667	25.0000	25
57 4-Nitroaniline	138	8.676	8.676	(1.059)	64536	25.0000	24
58 4,6-Dinitro-2-methylphenol	198	8.703	8.703	(0.919)	22423	25.0000	20(Q)
59 N-Nitrosodiphenylamine	169	8.756	8.756	(0.925)	204706	25.0000	25
97 Azobenzene	77	8.793	8.793	(0.929)	233840	25.0000	26
\$ 60 2,4,6-Tribromophenol	330	8.874	8.874	(0.937)	29780	25.0000	25
61 4-Bromophenyl-phenylether	248	9.077	9.077	(0.959)	65705	25.0000	25
62 Hexachlorobenzene	284	9.141	9.141	(0.966)	69534	25.0000	24
100 Atrazine	200	9.199	9.199	(0.972)	68779	25.0000	25
63 Pentachlorophenol	266	9.301	9.301	(0.983)	53223	25.0000	25
111 Pentachloronitrobenzene	237	9.317	9.317	(0.984)	31585	25.0000	25
* 64 Phenanthrene-d10	188	9.467	9.467	(1.000)	613420	40.0000	

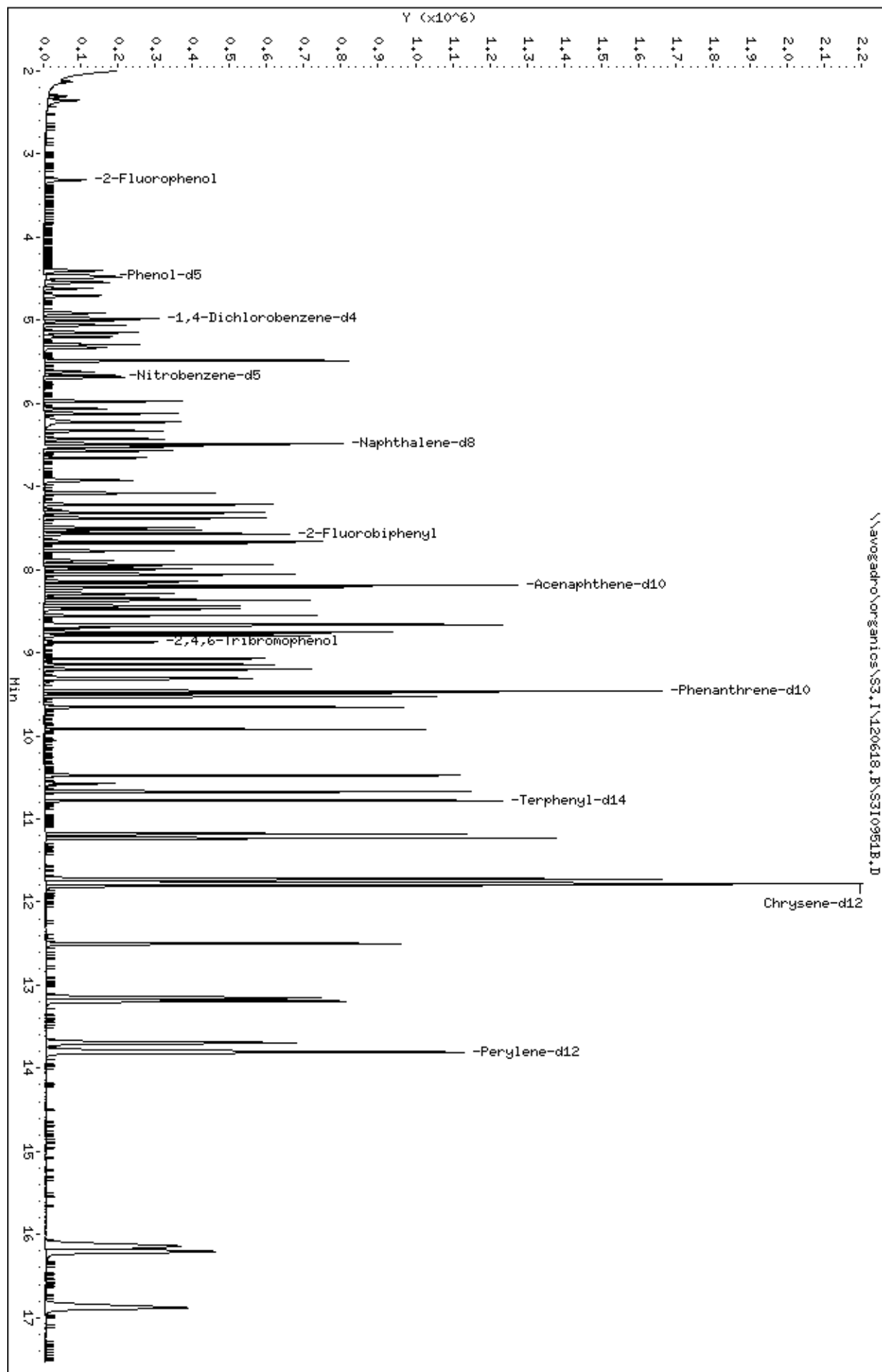
Compounds	QUANT SIG							AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
								(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====		=====	=====
65 Phenanthrene		178	9.483	9.483 (1.002)		356296		25.0000	25
66 Anthracene		178	9.525	9.525 (1.006)		366202		25.0000	25
67 Carbazole		167	9.654	9.654 (1.020)		345038		25.0000	25
68 Di-n-butylphthalate		149	9.921	9.921 (1.048)		443170		25.0000	25
69 Fluoranthene		202	10.476	10.476 (1.107)		437373		25.0000	25
70 Benzidine		184	10.572	10.572 (0.898)		72891		25.0000	18(a)
71 Pyrene		202	10.674	10.674 (0.906)		448837		25.0000	25
\$ 72 Terphenyl-d14		244	10.781	10.781 (0.915)		324941		25.0000	25
73 Butylbenzylphthalate		149	11.181	11.181 (0.949)		226277		25.0000	25
74 3,3'-Dichlorobenzidine		252	11.721	11.721 (0.995)		197858		25.0000	26
78 bis(2-Ethylhexyl)phthalate		149	11.726	11.726 (0.995)		319374		25.0000	26
75 Benzo(a)anthracene		228	11.764	11.764 (0.999)		490219		25.0000	25
* 76 Chrysene-d12		240	11.780	11.780 (1.000)		839174		40.0000	
77 Chrysene		228	11.806	11.806 (1.002)		451460		25.0000	25
79 Di-n-octylphthalate		149	12.501	12.501 (0.906)		566628		25.0000	26
80 Benzo(b)fluoranthene		252	13.153	13.153 (0.953)		491328		25.0000	25
81 Benzo(k)fluoranthene		252	13.195	13.195 (0.956)		533543		25.0000	26
82 Benzo(a)pyrene		252	13.698	13.698 (0.992)		487382		25.0000	25
* 83 Perylene-d12		264	13.804	13.804 (1.000)		810275		40.0000	
84 Indeno(1,2,3-cd)pyrene		276	16.144	16.144 (1.169)		581723		25.0000	25
85 Dibenzo(a,h)anthracene		278	16.203	16.203 (1.174)		488606		25.0000	25
86 Benzo(g,h,i)perylene		276	16.881	16.881 (1.223)		493209		25.0000	25

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\S3.1\120618.B\S310951B.D
 Date : 18-JUN-2012 13:22
 Client ID: SSTID0253B
 Sample Info: SSTID0253B,SSTID0253B
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120618.B\S3I0952.D
Lab Smp Id: SST0803B Client Smp ID: SST0803B
Inj Date : 18-JUN-2012 13:47
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SST0803B, SST0803B
Misc Info : 1,6
Comment :
Method : \\avogadro\organics\S3.I\120618.B\s3_8270C_N.m
Meth Date : 19-Jun-2012 14:37 pkaczorows Quant Type: ISTD
Cal Date : 18-JUN-2012 15:30 Cal File: S3I0956.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

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	
\$ 109 1,4-Dioxane-d8	96	2.127	2.127	(0.427)	36550	80.0000	84	
108 1,4-Dioxane	58	2.143	2.143	(0.430)	32144	80.0000	89(A)	
1 N-Nitrosodimethylamine	74	2.308	2.303	(0.463)	109972	80.0000	86(A)	
2 Pyridine	79	2.351	2.351	(0.472)	179392	80.0000	84(A)	
\$ 3 2-Fluorophenol	112	3.312	3.312	(0.665)	191770	80.0000	91	
101 Benzaldehyde	77	4.402	4.402	(0.883)	93859	80.0000	51	
\$ 5 Phenol-d5	99	4.472	4.466	(0.897)	304314	80.0000	87	
6 Phenol	94	4.493	4.482	(0.901)	300103	80.0000	85(A)	
7 Aniline	66	4.547	4.541	(0.912)	140595	80.0000	85(A)	
8 bis(2-Chloroethyl)Ether	63	4.621	4.616	(0.927)	146625	80.0000	80(A)	
10 2-Chlorophenol	128	4.707	4.701	(0.944)	215243	80.0000	86(A)	
11 1,3-Dichlorobenzene	146	4.915	4.910	(0.986)	185040	80.0000	81(A)	
* 12 1,4-Dichlorobenzene-d4	152	4.985	4.985	(1.000)	68141	40.0000		
13 1,4-Dichlorobenzene	146	5.006	5.006	(1.004)	191686	80.0000	81(A)	
117 2-Ethyl-1-hexanol	57	5.059	5.059	(1.015)	247311	80.0000	84(A)	
15 Benzyl Alcohol	108	5.156	5.150	(1.034)	171128	80.0000	85(A)	
16 1,2-Dichlorobenzene	146	5.204	5.198	(1.044)	189765	80.0000	82(A)	
17 2-Methylphenol	108	5.300	5.294	(1.063)	229294	80.0000	85(A)	
18 2,2'-oxybis(1-Chloropropane)	45	5.332	5.326	(1.070)	342641	80.0000	79	
99 Acetophenone	105	5.487	5.481	(1.101)	354954	80.0000	79	

						AMOUNTS			
		QUANT	SIG					CAL -AMT	ON -COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)	
=====		=====	=====	=====	=====	=====	=====	=====	
	19	N-Nitroso-di-n-propylamine	70	5.492	5.487	(1.102)	180164	80.0000	79
	20	4-Methylphenol	108	5.497	5.487	(1.103)	255855	80.0000	84(A)
	21	Hexachloroethane	117	5.620	5.620	(1.128)	65888	80.0000	82(A)
\$	22	Nitrobenzene-d5	82	5.674	5.668	(0.875)	249570	80.0000	84
	23	Nitrobenzene	77	5.695	5.690	(0.878)	257446	80.0000	84(A)
	24	Isophorone	82	5.978	5.973	(0.922)	533682	80.0000	80
	25	2-Nitrophenol	139	6.069	6.064	(0.936)	122781	80.0000	86(A)
	26	2,4-Dimethylphenol	107	6.128	6.122	(0.945)	275007	80.0000	91(A)
	27	bis(2-Chloroethoxy)methane	93	6.229	6.224	(0.960)	298839	80.0000	80
	28	Benzoic Acid	105	6.293	6.229	(0.970)	257095	80.0000	86(A)
	29	2,4-Dichlorophenol	162	6.336	6.331	(0.977)	221468	80.0000	83(A)
	30	1,2,4-Trichlorobenzene	180	6.427	6.427	(0.991)	206441	80.0000	82(A)
*	31	Naphthalene-d8	136	6.486	6.486	(1.000)	366259	40.0000	
	32	Naphthalene	128	6.512	6.507	(1.004)	703187	80.0000	80
	115	alpha-Terpineol	59	6.528	6.523	(1.007)	173719	80.0000	81(A)
	33	4-Chloroaniline	127	6.571	6.571	(1.013)	359097	80.0000	81(A)
	34	Hexachlorobutadiene	225	6.657	6.651	(1.026)	107924	80.0000	80(A)
	102	Caprolactam	113	6.972	6.929	(1.075)	142099	80.0000	79(Q)
	35	4-Chloro-3-Methylphenol	107	7.089	7.079	(1.093)	290425	80.0000	80(A)
	36	2-Methylnaphthalene	142	7.218	7.218	(1.113)	546024	80.0000	79
	114	1-Methylnaphthalene	142	7.314	7.314	(1.128)	515867	80.0000	79
	38	Hexachlorocyclopentadiene	237	7.383	7.378	(0.902)	116360	80.0000	97(A)
	112	1,2,4,5-Tetrachlorobenzene	216	7.389	7.383	(0.902)	256589	80.0000	83(A)
	39	2,4,6-Trichlorophenol	196	7.495	7.495	(0.915)	191381	80.0000	83(A)
	40	2,4,5-Trichlorophenol	196	7.533	7.527	(0.920)	207501	80.0000	81(A)
\$	41	2-Fluorobiphenyl	172	7.576	7.570	(0.925)	633611	80.0000	80
	98	1,1'-Biphenyl	154	7.666	7.661	(0.936)	742193	80.0000	79
	42	2-Chloronaphthalene	162	7.682	7.682	(0.938)	537846	80.0000	80
	43	2-Nitroaniline	65	7.779	7.773	(0.950)	198093	80.0000	84(A)
	44	Dimethylphthalate	163	7.949	7.939	(0.971)	739836	80.0000	78
	45	2,6-Dinitrotoluene	165	7.998	7.992	(0.977)	179104	80.0000	87(A)
	46	Acenaphthylene	152	8.062	8.062	(0.984)	976637	80.0000	80(A)
	47	3-Nitroaniline	138	8.152	8.142	(0.995)	204784	80.0000	80(A)
*	48	Acenaphthene-d10	164	8.190	8.190	(1.000)	294114	40.0000	
	49	Acenaphthene	153	8.222	8.217	(1.004)	601021	80.0000	79
	50	2,4-Dinitrophenol	184	8.238	8.233	(1.006)	69694	80.0000	120(AQ)
	51	4-Nitrophenol	109	8.302	8.286	(1.014)	124855	80.0000	83(A)
	53	2,4-Dinitrotoluene	165	8.355	8.345	(1.020)	255137	80.0000	90(AQ)
	52	Dibenzofuran	168	8.371	8.366	(1.022)	869184	80.0000	79
	110	2,3,4,6-Tetrachlorophenol	232	8.478	8.473	(1.035)	197011	80.0000	82(A)
	54	Diethylphthalate	149	8.558	8.553	(1.045)	787419	80.0000	77
	56	4-Chlorophenyl-phenylether	204	8.660	8.655	(1.057)	372895	80.0000	80(A)
	55	Fluorene	166	8.665	8.665	(1.058)	778041	80.0000	78
	57	4-Nitroaniline	138	8.697	8.676	(1.062)	225536	80.0000	78
	58	4,6-Dinitro-2-methylphenol	198	8.713	8.703	(0.920)	130048	80.0000	110(A)
	59	N-Nitrosodiphenylamine	169	8.767	8.756	(0.926)	675318	80.0000	78
	97	Azobenzene	77	8.799	8.793	(0.929)	770463	80.0000	79
\$	60	2,4,6-Tribromophenol	330	8.879	8.874	(0.938)	112386	80.0000	87
	61	4-Bromophenyl-phenylether	248	9.077	9.077	(0.959)	236026	80.0000	84(A)
	62	Hexachlorobenzene	284	9.146	9.141	(0.966)	250214	80.0000	83(A)
	100	Atrazine	200	9.210	9.199	(0.973)	225899	80.0000	78
	63	Pentachlorophenol	266	9.306	9.301	(0.983)	196324	80.0000	87(A)
	111	Pentachloronitrobenzene	237	9.322	9.317	(0.985)	118012	80.0000	86(A)
*	64	Phenanthrene-d10	188	9.467	9.467	(1.000)	656428	40.0000	

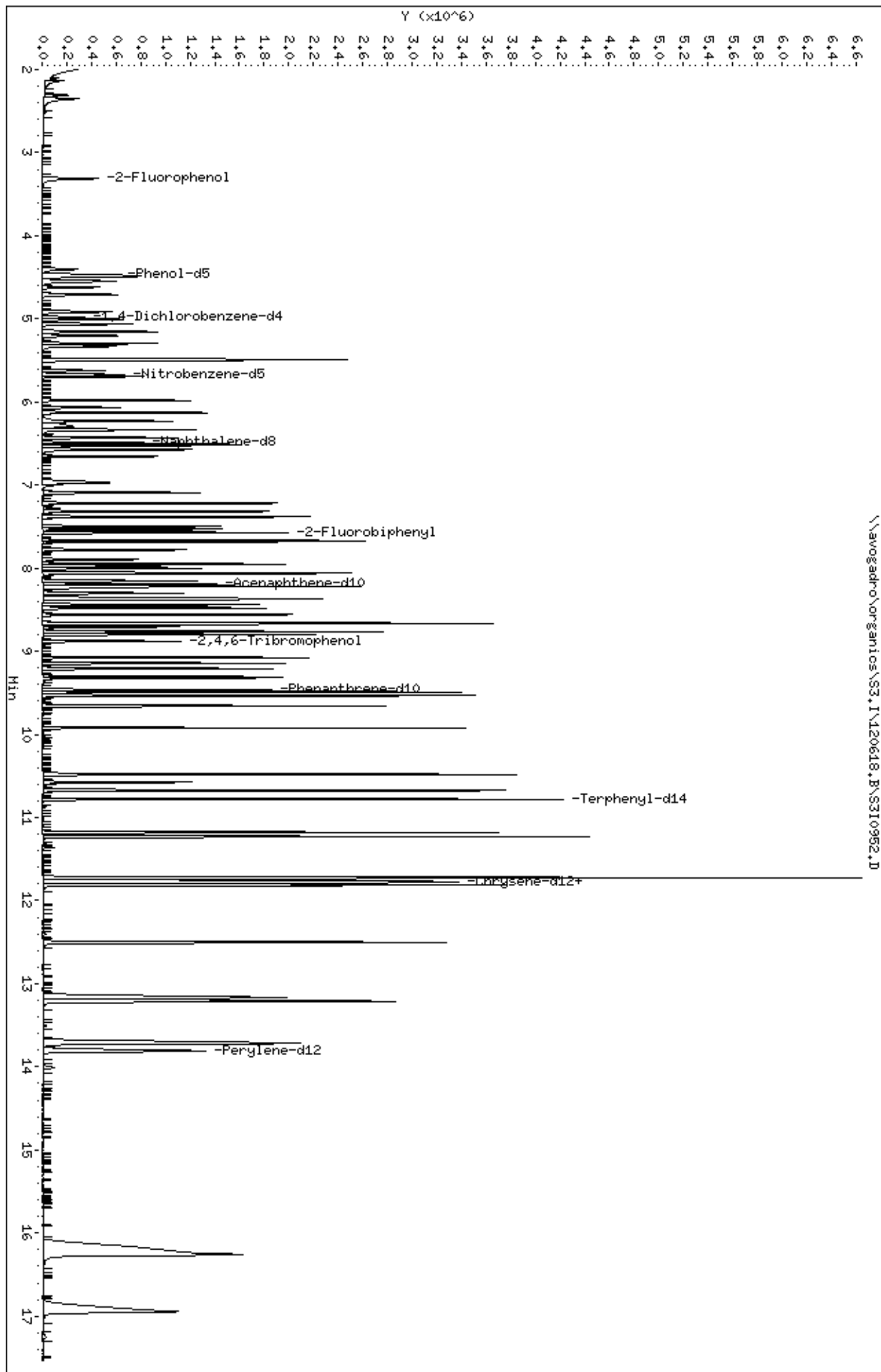
Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
65 Phenanthrene	178	9.488	9.483 (1.002)	1201020	80.0000	79	
66 Anthracene	178	9.531	9.525 (1.007)	1233189	80.0000	79	
67 Carbazole	167	9.659	9.654 (1.020)	1072783	80.0000	72	
68 Di-n-butylphthalate	149	9.921	9.921 (1.048)	1429411	80.0000	76	
69 Fluoranthene	202	10.482	10.476 (1.107)	1505651	80.0000	80	
70 Benzidine	184	10.572	10.572 (0.897)	439817	80.0000	92(A)	
71 Pyrene	202	10.674	10.674 (0.906)	1552984	80.0000	76	
\$ 72 Terphenyl-d14	244	10.781	10.781 (0.915)	1145833	80.0000	78	
73 Butylbenzylphthalate	149	11.181	11.181 (0.949)	788412	80.0000	76	
74 3,3'-Dichlorobenzidine	252	11.726	11.721 (0.995)	746074	80.0000	83(A)	
78 bis(2-Ethylhexyl)phthalate	149	11.726	11.726 (0.995)	1101628	80.0000	76	
75 Benzo(a)anthracene	228	11.769	11.764 (0.999)	1807258	80.0000	79	
* 76 Chrysene-d12	240	11.785	11.780 (1.000)	972067	40.0000		
77 Chrysene	228	11.812	11.806 (1.002)	1635535	80.0000	78	
79 Di-n-octylphthalate	149	12.506	12.501 (0.906)	1992160	80.0000	79	
80 Benzo(b)fluoranthene	252	13.169	13.153 (0.954)	1923340	80.0000	83(A)	
81 Benzo(k)fluoranthene	252	13.211	13.195 (0.957)	1963077	80.0000	81(A)	
82 Benzo(a)pyrene	252	13.719	13.698 (0.993)	1853902	80.0000	82(A)	
* 83 Perylene-d12	264	13.810	13.804 (1.000)	941600	40.0000		
84 Indeno(1,2,3-cd)pyrene	276	16.192	16.144 (1.173)	2246362	80.0000	84(A)	
85 Dibenzo(a,h)anthracene	278	16.262	16.203 (1.178)	1910085	80.0000	85(A)	
86 Benzo(g,h,i)perylene	276	16.946	16.881 (1.227)	1874101	80.0000	83(A)	

QC Flag Legend

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

Data File: \\avogadro\organics\S3,I\120618,B\S310962.D
 Date : 18-JUN-2012 13:47
 Client ID: SSTID0803B
 Sample Info: SSTID0803B,SSTID0803B
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120618.B\S3I0953.D
Lab Smp Id: SSTD0053B Client Smp ID: SSTD0053B
Inj Date : 18-JUN-2012 14:13
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SSTD0053B, SSTD0053B
Misc Info : 1,1
Comment :
Method : \\avogadro\organics\S3.I\120618.B\s3_8270C_N.m
Meth Date : 19-Jun-2012 14:37 pkaczorows Quant Type: ISTD
Cal Date : 18-JUN-2012 15:30 Cal File: S3I0956.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

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL -AMT	ON -COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	
\$ 109 1,4-Dioxane-d8	96	2.123	2.127	(0.426)	2501	5.00000	6(a)	
108 1,4-Dioxane	58	2.139	2.143	(0.429)	1664	5.00000	4(a)	
1 N-Nitrosodimethylamine	74	2.305	2.303	(0.463)	6276	5.00000	5(a)	
2 Pyridine	79	2.353	2.351	(0.472)	10384	5.00000	5(Ta)	
\$ 3 2-Fluorophenol	112	3.309	3.312	(0.664)	10121	5.00000	5(a)	
101 Benzaldehyde	77	4.399	4.402	(0.883)	11536	5.00000	6(a)	
\$ 5 Phenol-d5	99	4.463	4.466	(0.896)	16403	5.00000	4(a)	
6 Phenol	94	4.479	4.482	(0.899)	17070	5.00000	5(a)	
7 Aniline	66	4.538	4.541	(0.911)	8247	5.00000	5(a)	
8 bis(2-Chloroethyl)Ether	63	4.618	4.616	(0.927)	9509	5.00000	5(a)	
10 2-Chlorophenol	128	4.703	4.701	(0.944)	12147	5.00000	5(a)	
11 1,3-Dichlorobenzene	146	4.912	4.910	(0.986)	12391	5.00000	5(a)	
* 12 1,4-Dichlorobenzene-d4	152	4.981	4.985	(1.000)	69923	40.0000		
13 1,4-Dichlorobenzene	146	5.003	5.006	(1.004)	12798	5.00000	5(a)	
117 2-Ethyl-1-hexanol	57	5.056	5.059	(1.015)	14836	5.00000	5(a)	
15 Benzyl Alcohol	108	5.147	5.150	(1.033)	9720	5.00000	5(a)	
16 1,2-Dichlorobenzene	146	5.200	5.198	(1.044)	11964	5.00000	5(a)	
17 2-Methylphenol	108	5.291	5.294	(1.062)	12463	5.00000	4(a)	
18 2,2'-oxybis(1-Chloropropane)	45	5.328	5.326	(1.070)	23130	5.00000	5(a)	
99 Acetophenone	105	5.483	5.481	(1.101)	23255	5.00000	5(a)	

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====		=====	=====
19 N-Nitroso-di-n-propylamine	70	5.483	5.487	(1.101)	12009		5.00000	5(a)
20 4-Methylphenol	108	5.483	5.487	(1.101)	14948		5.00000	5(a)
21 Hexachloroethane	117	5.617	5.620	(1.128)	4108		5.00000	5(a)
\$ 22 Nitrobenzene-d5	82	5.665	5.668	(0.874)	14708		5.00000	5(a)
23 Nitrobenzene	77	5.686	5.690	(0.877)	15137		5.00000	5(a)
24 Isophorone	82	5.969	5.973	(0.921)	34472		5.00000	5(a)
25 2-Nitrophenol	139	6.060	6.064	(0.935)	6807		5.00000	5(a)
26 2,4-Dimethylphenol	107	6.119	6.122	(0.944)	12891		5.00000	4(a)
27 bis(2-Chloroethoxy)methane	93	6.226	6.224	(0.960)	19820		5.00000	5(a)
29 2,4-Dichlorophenol	162	6.333	6.331	(0.977)	13304		5.00000	5(a)
30 1,2,4-Trichlorobenzene	180	6.424	6.427	(0.991)	12706		5.00000	5(a)
* 31 Naphthalene-d8	136	6.482	6.486	(1.000)	372516		40.0000	
32 Naphthalene	128	6.504	6.507	(1.003)	46714		5.00000	5(a)
115 alpha-Terpineol	59	6.520	6.523	(1.006)	10927		5.00000	5(a)
33 4-Chloroaniline	127	6.568	6.571	(1.013)	22564		5.00000	5(a)
34 Hexachlorobutadiene	225	6.653	6.651	(1.026)	7307		5.00000	5(a)
102 Caprolactam	113	6.899	6.929	(1.064)	9413		5.00000	5(a)
35 4-Chloro-3-Methylphenol	107	7.075	7.079	(1.091)	18310		5.00000	5(a)
36 2-Methylnaphthalene	142	7.214	7.218	(1.113)	36525		5.00000	5(a)
114 1-Methylnaphthalene	142	7.310	7.314	(1.128)	34974		5.00000	5(a)
38 Hexachlorocyclopentadiene	237	7.380	7.378	(0.901)	4904		5.00000	4(Ta)
112 1,2,4,5-Tetrachlorobenzene	216	7.380	7.383	(0.901)	16371		5.00000	5(a)
39 2,4,6-Trichlorophenol	196	7.492	7.495	(0.915)	11924		5.00000	5(a)
40 2,4,5-Trichlorophenol	196	7.524	7.527	(0.919)	13756		5.00000	5(a)
\$ 41 2-Fluorobiphenyl	172	7.567	7.570	(0.924)	43278		5.00000	5(a)
98 1,1'-Biphenyl	154	7.658	7.661	(0.935)	52067		5.00000	5(a)
42 2-Chloronaphthalene	162	7.679	7.682	(0.938)	36968		5.00000	5(a)
43 2-Nitroaniline	65	7.770	7.773	(0.949)	11224		5.00000	4(a)
44 Dimethylphthalate	163	7.935	7.939	(0.969)	53189		5.00000	5(a)
45 2,6-Dinitrotoluene	165	7.989	7.992	(0.976)	9763		5.00000	4(a)
46 Acenaphthylene	152	8.058	8.062	(0.984)	67176		5.00000	5(a)
47 3-Nitroaniline	138	8.138	8.142	(0.994)	13181		5.00000	5(a)
* 48 Acenaphthene-d10	164	8.186	8.190	(1.000)	310068		40.0000	
49 Acenaphthene	153	8.213	8.217	(1.003)	42166		5.00000	5(a)
50 2,4-Dinitrophenol	184	8.229	8.233	(1.005)	834		5.00000	1(aQ)
51 4-Nitrophenol	109	8.283	8.286	(1.012)	7217		5.00000	4(a)
53 2,4-Dinitrotoluene	165	8.341	8.345	(1.019)	12211		5.00000	4(a)
52 Dibenzofuran	168	8.363	8.366	(1.022)	60945		5.00000	5(a)
110 2,3,4,6-Tetrachlorophenol	232	8.470	8.473	(1.035)	13523		5.00000	5
54 Diethylphthalate	149	8.550	8.553	(1.044)	57544		5.00000	5(a)
56 4-Chlorophenyl-phenylether	204	8.651	8.655	(1.057)	25777		5.00000	5(a)
55 Fluorene	166	8.662	8.665	(1.058)	55523		5.00000	5(a)
57 4-Nitroaniline	138	8.667	8.676	(1.059)	15648		5.00000	5(a)
58 4,6-Dinitro-2-methylphenol	198	8.694	8.703	(0.919)	2700		5.00000	2(aQ)
59 N-Nitrosodiphenylamine	169	8.753	8.756	(0.925)	49162		5.00000	5(a)
97 Azobenzene	77	8.790	8.793	(0.929)	55631		5.00000	5(a)
\$ 60 2,4,6-Tribromophenol	330	8.870	8.874	(0.937)	6831		5.00000	5(a)
61 4-Bromophenyl-phenylether	248	9.073	9.077	(0.959)	15708		5.00000	5(a)
62 Hexachlorobenzene	284	9.137	9.141	(0.966)	17040		5.00000	5(a)
100 Atrazine	200	9.196	9.199	(0.972)	16693		5.00000	5(a)
63 Pentachlorophenol	266	9.298	9.301	(0.983)	11270		5.00000	4(a)
111 Pentachloronitrobenzene	237	9.314	9.317	(0.984)	6832		5.00000	4(a)
* 64 Phenanthrene-d10	188	9.463	9.467	(1.000)	731924		40.0000	
65 Phenanthrene	178	9.479	9.483	(1.002)	89162		5.00000	5(a)

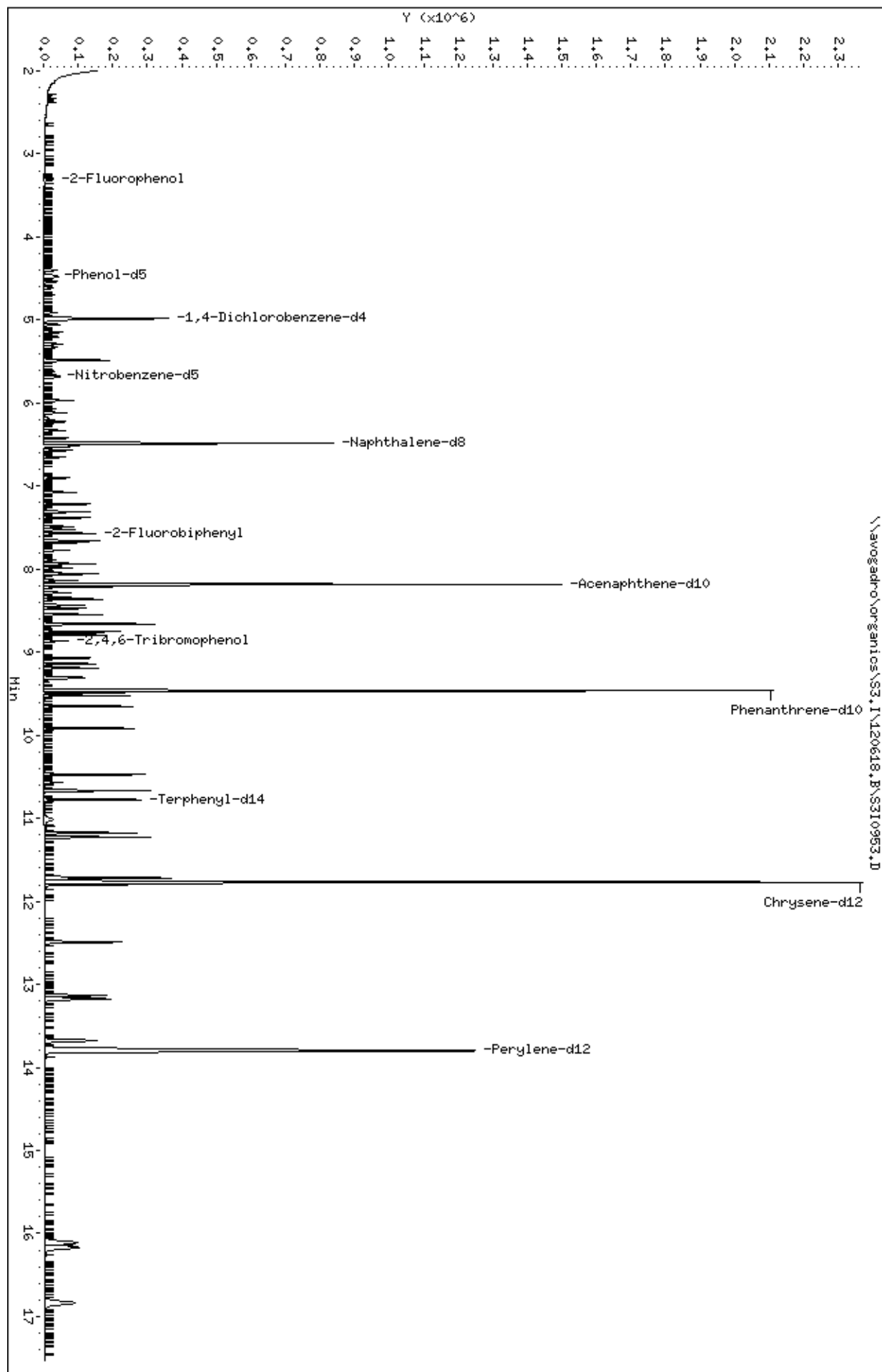
Compounds	QUANT SIG							AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
								(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
66 Anthracene	178	9.522	9.525	(1.006)	88305	5.00000			5(a)
67 Carbazole	167	9.650	9.654	(1.020)	93022	5.00000			6(a)
68 Di-n-butylphthalate	149	9.917	9.921	(1.048)	108649	5.00000			5(a)
69 Fluoranthene	202	10.473	10.476	(1.107)	107811	5.00000			5(a)
70 Benzidine	184	10.569	10.572	(0.898)	21181	5.00000			4(a)
71 Pyrene	202	10.665	10.674	(0.906)	112800	5.00000			5(a)
\$ 72 Terphenyl-d14	244	10.777	10.781	(0.916)	78643	5.00000			5(a)
73 Butylbenzylphthalate	149	11.173	11.181	(0.949)	55317	5.00000			5(a)
74 3,3'-Dichlorobenzidine	252	11.712	11.721	(0.995)	43859	5.00000			5(a)
78 bis(2-Ethylhexyl)phthalate	149	11.718	11.726	(0.995)	75288	5.00000			5(a)
75 Benzo(a)anthracene	228	11.755	11.764	(0.999)	122056	5.00000			5(a)
* 76 Chrysene-d12	240	11.771	11.780	(1.000)	981975	40.0000			
77 Chrysene	228	11.798	11.806	(1.002)	112588	5.00000			5(a)
79 Di-n-octylphthalate	149	12.492	12.501	(0.905)	126032	5.00000			5(a)
80 Benzo(b)fluoranthene	252	13.133	13.153	(0.952)	113634	5.00000			5(a)
81 Benzo(k)fluoranthene	252	13.176	13.195	(0.955)	120072	5.00000			5(a)
82 Benzo(a)pyrene	252	13.678	13.698	(0.991)	109660	5.00000			5(a)
* 83 Perylene-d12	264	13.801	13.804	(1.000)	940111	40.0000			
84 Indeno(1,2,3-cd)pyrene	276	16.114	16.144	(1.168)	128013	5.00000			5(a)
85 Dibenzo(a,h)anthracene	278	16.168	16.203	(1.171)	104629	5.00000			5(a)
86 Benzo(g,h,i)perylene	276	16.841	16.881	(1.220)	109206	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.

Data File: \\avogadro\organics\S3,I\120618,B\S310953.D
 Date : 18-JUN-2012 14:13
 Client ID: SSTID0053B
 Sample Info: SSTID0053B,SSTID0053B
 Volume Injected (uL): 1.0
 Column phase: Rxi-5Sil MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120618.B\S3I0954.D
Lab Smp Id: SST0603B Client Smp ID: SST0603B
Inj Date : 18-JUN-2012 14:39
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SST0603B, SST0603B
Misc Info : 1,5
Comment :
Method : \\avogadro\organics\S3.I\120618.B\s3_8270C_N.m
Meth Date : 19-Jun-2012 14:37 pkaczorows Quant Type: ISTD
Cal Date : 18-JUN-2012 15:30 Cal File: S3I0956.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

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 109 1,4-Dioxane-d8	96	2.121	2.127 (0.426)		32466	60.0000	62
108 1,4-Dioxane	58	2.143	2.143 (0.430)		28952	60.0000	66
1 N-Nitrosodimethylamine	74	2.308	2.303 (0.463)		98356	60.0000	64
2 Pyridine	79	2.351	2.351 (0.472)		162018	60.0000	63
\$ 3 2-Fluorophenol	112	3.312	3.312 (0.665)		166184	60.0000	65
101 Benzaldehyde	77	4.402	4.402 (0.883)		95327	60.0000	43
\$ 5 Phenol-d5	99	4.472	4.466 (0.897)		260404	60.0000	62
6 Phenol	94	4.493	4.482 (0.901)		258385	60.0000	61
7 Aniline	66	4.546	4.541 (0.912)		122047	60.0000	61
8 bis(2-Chloroethyl)Ether	63	4.621	4.616 (0.927)		132394	60.0000	60
10 2-Chlorophenol	128	4.707	4.701 (0.944)		189909	60.0000	63
11 1,3-Dichlorobenzene	146	4.915	4.910 (0.986)		166513	60.0000	61
* 12 1,4-Dichlorobenzene-d4	152	4.985	4.985 (1.000)		81947	40.0000	
13 1,4-Dichlorobenzene	146	5.006	5.006 (1.004)		173883	60.0000	61
117 2-Ethyl-1-hexanol	57	5.059	5.059 (1.015)		217718	60.0000	61
15 Benzyl Alcohol	108	5.155	5.150 (1.034)		145183	60.0000	60
16 1,2-Dichlorobenzene	146	5.204	5.198 (1.044)		170724	60.0000	61
17 2-Methylphenol	108	5.294	5.294 (1.062)		196305	60.0000	61
18 2,2'-oxybis(1-Chloropropane)	45	5.332	5.326 (1.070)		306371	60.0000	59
99 Acetophenone	105	5.487	5.481 (1.101)		306703	60.0000	57

Data File: \\avogadro\organics\S3.I\120618.B\S3I0954.D
Report Date: 19-Jun-2012 14:39

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL -AMT	ON -COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	
19 N-Nitroso-di-n-propylamine	70	5.492	5.487	(1.102)	155124	60.0000	56	
20 4-Methylphenol	108	5.497	5.487	(1.103)	215428	60.0000	59	
21 Hexachloroethane	117	5.620	5.620	(1.128)	61383	60.0000	64	
\$ 22 Nitrobenzene-d5	82	5.668	5.668	(0.874)	215574	60.0000	65	
23 Nitrobenzene	77	5.695	5.690	(0.878)	217863	60.0000	64	
24 Isophorone	82	5.978	5.973	(0.922)	452377	60.0000	61	
25 2-Nitrophenol	139	6.064	6.064	(0.935)	107586	60.0000	68	
26 2,4-Dimethylphenol	107	6.122	6.122	(0.944)	229389	60.0000	68	
27 bis(2-Chloroethoxy)methane	93	6.229	6.224	(0.960)	253553	60.0000	61	
28 Benzoic Acid	105	6.283	6.229	(0.969)	200306	60.0000	60	
29 2,4-Dichlorophenol	162	6.336	6.331	(0.977)	186503	60.0000	63	
30 1,2,4-Trichlorobenzene	180	6.427	6.427	(0.991)	176603	60.0000	63	
* 31 Naphthalene-d8	136	6.486	6.486	(1.000)	408238	40.0000		
32 Naphthalene	128	6.512	6.507	(1.004)	602284	60.0000	61	
115 alpha-Terpineol	59	6.528	6.523	(1.007)	148611	60.0000	62	
33 4-Chloroaniline	127	6.571	6.571	(1.013)	299824	60.0000	61	
34 Hexachlorobutadiene	225	6.657	6.651	(1.026)	94480	60.0000	63	
102 Caprolactam	113	6.961	6.929	(1.073)	115828	60.0000	58	
35 4-Chloro-3-Methylphenol	107	7.089	7.079	(1.093)	238757	60.0000	59	
36 2-Methylnaphthalene	142	7.218	7.218	(1.113)	460111	60.0000	59	
114 1-Methylnaphthalene	142	7.314	7.314	(1.128)	435851	60.0000	60	
38 Hexachlorocyclopentadiene	237	7.383	7.378	(0.902)	100572	60.0000	78	
112 1,2,4,5-Tetrachlorobenzene	216	7.383	7.383	(0.902)	212682	60.0000	65	
39 2,4,6-Trichlorophenol	196	7.495	7.495	(0.915)	156665	60.0000	64	
40 2,4,5-Trichlorophenol	196	7.533	7.527	(0.920)	170545	60.0000	63	
\$ 41 2-Fluorobiphenyl	172	7.570	7.570	(0.924)	529780	60.0000	63	
98 1,1'-Biphenyl	154	7.666	7.661	(0.936)	617599	60.0000	62	
42 2-Chloronaphthalene	162	7.682	7.682	(0.938)	448783	60.0000	62	
43 2-Nitroaniline	65	7.778	7.773	(0.950)	163291	60.0000	65	
44 Dimethylphthalate	163	7.949	7.939	(0.971)	609799	60.0000	60	
45 2,6-Dinitrotoluene	165	7.997	7.992	(0.977)	145807	60.0000	66	
46 Acenaphthylene	152	8.062	8.062	(0.984)	798087	60.0000	61	
47 3-Nitroaniline	138	8.152	8.142	(0.995)	169663	60.0000	62	
* 48 Acenaphthene-d10	164	8.190	8.190	(1.000)	313260	40.0000		
49 Acenaphthene	153	8.222	8.217	(1.004)	498373	60.0000	62	
50 2,4-Dinitrophenol	184	8.238	8.233	(1.006)	51134	60.0000	80(AQ)	
51 4-Nitrophenol	109	8.297	8.286	(1.013)	97768	60.0000	61	
53 2,4-Dinitrotoluene	165	8.355	8.345	(1.020)	205064	60.0000	68	
52 Dibenzofuran	168	8.366	8.366	(1.022)	710813	60.0000	61	
110 2,3,4,6-Tetrachlorophenol	232	8.478	8.473	(1.035)	160600	60.0000	62	
54 Diethylphthalate	149	8.558	8.553	(1.045)	647164	60.0000	60	
56 4-Chlorophenyl-phenylether	204	8.660	8.655	(1.057)	306012	60.0000	62	
55 Fluorene	166	8.665	8.665	(1.058)	636505	60.0000	60	
57 4-Nitroaniline	138	8.692	8.676	(1.061)	184811	60.0000	60	
58 4,6-Dinitro-2-methylphenol	198	8.708	8.703	(0.920)	97349	60.0000	75	
59 N-Nitrosodiphenylamine	169	8.761	8.756	(0.925)	559174	60.0000	62	
97 Azobenzene	77	8.793	8.793	(0.929)	641336	60.0000	62	
\$ 60 2,4,6-Tribromophenol	330	8.874	8.874	(0.937)	88651	60.0000	65	
61 4-Bromophenyl-phenylether	248	9.077	9.077	(0.959)	189625	60.0000	64	
62 Hexachlorobenzene	284	9.141	9.141	(0.966)	201557	60.0000	63	
100 Atrazine	200	9.205	9.199	(0.972)	187596	60.0000	62	
63 Pentachlorophenol	266	9.306	9.301	(0.983)	152559	60.0000	64	
111 Pentachloronitrobenzene	237	9.317	9.317	(0.984)	94401	60.0000	66	
* 64 Phenanthrene-d10	188	9.467	9.467	(1.000)	691364	40.0000		

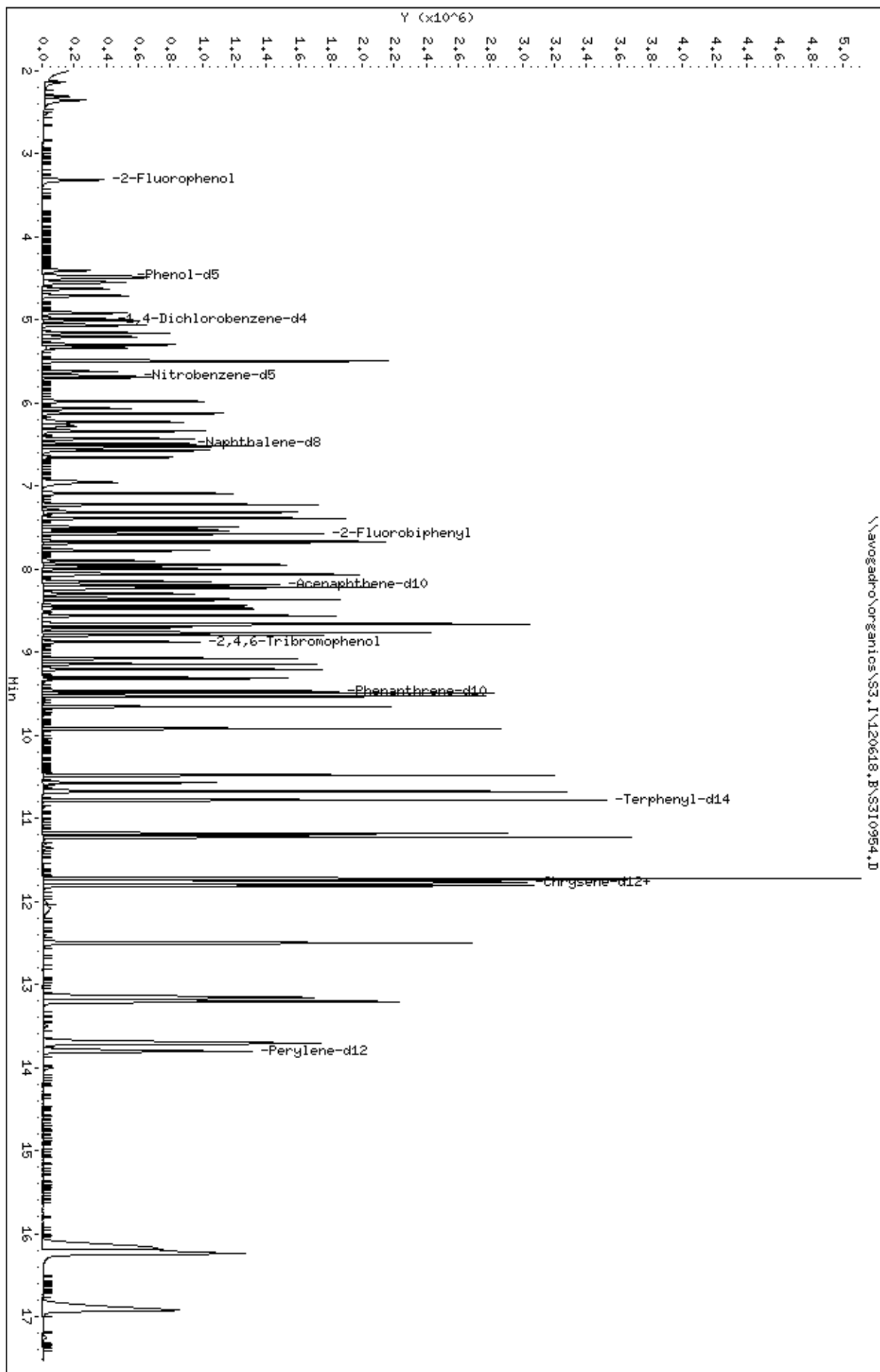
						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)	
=====	=====	=====	=====	=====	=====	=====	=====	
65 Phenanthrene	178	9.488	9.483 (1.002)		980604	60.0000	61	
66 Anthracene	178	9.531	9.525 (1.007)		1012336	60.0000	62	
67 Carbazole	167	9.659	9.654 (1.020)		886869	60.0000	56	
68 Di-n-butylphthalate	149	9.921	9.921 (1.048)		1178371	60.0000	60	
69 Fluoranthene	202	10.482	10.476 (1.107)		1211752	60.0000	61	
70 Benzidine	184	10.572	10.572 (0.898)		378872	60.0000	79	
71 Pyrene	202	10.674	10.674 (0.906)		1238762	60.0000	60	
\$ 72 Terphenyl-d14	244	10.781	10.781 (0.915)		921417	60.0000	62	
73 Butylbenzylphthalate	149	11.181	11.181 (0.949)		630343	60.0000	61	
74 3,3'-Dichlorobenzidine	252	11.726	11.721 (0.995)		563111	60.0000	62	
78 bis(2-Ethylhexyl)phthalate	149	11.726	11.726 (0.995)		875128	60.0000	60	
75 Benzo(a)anthracene	228	11.764	11.764 (0.999)		1400431	60.0000	61	
* 76 Chrysene-d12	240	11.780	11.780 (1.000)		977414	40.0000		
77 Chrysene	228	11.812	11.806 (1.003)		1262929	60.0000	60	
79 Di-n-octylphthalate	149	12.501	12.501 (0.906)		1558733	60.0000	63	
80 Benzo(b)fluoranthene	252	13.158	13.153 (0.953)		1446566	60.0000	64	
81 Benzo(k)fluoranthene	252	13.206	13.195 (0.957)		1484831	60.0000	63	
82 Benzo(a)pyrene	252	13.708	13.698 (0.993)		1394587	60.0000	63	
* 83 Perylene-d12	264	13.804	13.804 (1.000)		923637	40.0000		
84 Indeno(1,2,3-cd)pyrene	276	16.171	16.144 (1.171)		1643066	60.0000	62	
85 Dibenzo(a,h)anthracene	278	16.240	16.203 (1.176)		1382275	60.0000	63	
86 Benzo(g,h,i)perylene	276	16.924	16.881 (1.226)		1374395	60.0000	62	

QC Flag Legend

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

Data File: \\avogadro\organics\S3,I\120618,B\S3I0954.D
 Date : 18-JUN-2012 14:39
 Client ID: SSTID0603B
 Sample Info: SSTID0603B,SSTID0603B
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120618.B\S3I0955.D
 Lab Smp Id: SST0103B Client Smp ID: SST0103B
 Inj Date : 18-JUN-2012 15:04
 Operator : PK/DL SRC: PK/DL Inst ID: S3.i
 Smp Info : SST0103B, SST0103B
 Misc Info : 1,2
 Comment :
 Method : \\avogadro\organics\S3.I\120618.B\s3_8270C_N.m
 Meth Date : 19-Jun-2012 14:37 pkaczorows Quant Type: ISTD
 Cal Date : 18-JUN-2012 15:30 Cal File: S3I0956.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

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	
\$ 109 1,4-Dioxane-d8	96	2.125	2.127	(0.427)	3379	10.0000	9(a)	
108 1,4-Dioxane	58	2.141	2.143	(0.430)	3158	10.0000	10	
1 N-Nitrosodimethylamine	74	2.307	2.303	(0.463)	10224	10.0000	9(a)	
2 Pyridine	79	2.355	2.351	(0.473)	17160	10.0000	9(a)	
\$ 3 2-Fluorophenol	112	3.311	3.312	(0.664)	15980	10.0000	8(a)	
101 Benzaldehyde	77	4.401	4.402	(0.883)	19442	10.0000	12	
\$ 5 Phenol-d5	99	4.460	4.466	(0.895)	27307	10.0000	9(a)	
6 Phenol	94	4.481	4.482	(0.899)	27953	10.0000	9(a)	
7 Aniline	66	4.540	4.541	(0.911)	13154	10.0000	9(a)	
8 bis(2-Chloroethyl)Ether	63	4.615	4.616	(0.926)	15201	10.0000	9(a)	
10 2-Chlorophenol	128	4.700	4.701	(0.943)	19890	10.0000	9(a)	
11 1,3-Dichlorobenzene	146	4.908	4.910	(0.985)	19142	10.0000	9(a)	
* 12 1,4-Dichlorobenzene-d4	152	4.983	4.985	(1.000)	60491	40.0000		
13 1,4-Dichlorobenzene	146	5.005	5.006	(1.004)	19830	10.0000	9(a)	
117 2-Ethyl-1-hexanol	57	5.058	5.059	(1.015)	23969	10.0000	9(a)	
15 Benzyl Alcohol	108	5.144	5.150	(1.032)	15894	10.0000	9(a)	
16 1,2-Dichlorobenzene	146	5.197	5.198	(1.043)	19598	10.0000	10	
17 2-Methylphenol	108	5.288	5.294	(1.061)	21564	10.0000	9(a)	
18 2,2'-oxybis(1-Chloropropane)	45	5.325	5.326	(1.069)	36782	10.0000	10	
99 Acetophenone	105	5.480	5.481	(1.100)	37220	10.0000	9(a)	

Data File: \\avogadro\organics\S3.I\120618.B\S3I0955.D
Report Date: 19-Jun-2012 14:39

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
19 N-Nitroso-di-n-propylamine	70	5.485	5.487 (1.101)		19441	10.0000	10
20 4-Methylphenol	108	5.485	5.487 (1.101)		24544	10.0000	9(a)
21 Hexachloroethane	117	5.619	5.620 (1.128)		6498	10.0000	9(a)
\$ 22 Nitrobenzene-d5	82	5.667	5.668 (0.874)		24462	10.0000	9(a)
23 Nitrobenzene	77	5.688	5.690 (0.877)		25218	10.0000	9(a)
24 Isophorone	82	5.966	5.973 (0.920)		55244	10.0000	9(a)
25 2-Nitrophenol	139	6.062	6.064 (0.935)		11021	10.0000	9(a)
26 2,4-Dimethylphenol	107	6.116	6.122 (0.943)		23492	10.0000	9(a)
27 bis(2-Chloroethoxy)methane	93	6.223	6.224 (0.960)		30778	10.0000	9(a)
28 Benzoic Acid	105	6.196	6.229 (0.956)		22362	10.0000	8(a)
29 2,4-Dichlorophenol	162	6.329	6.331 (0.976)		21184	10.0000	9(a)
30 1,2,4-Trichlorobenzene	180	6.426	6.427 (0.991)		20897	10.0000	9(a)
* 31 Naphthalene-d8	136	6.484	6.486 (1.000)		320795	40.0000	
32 Naphthalene	128	6.506	6.507 (1.003)		73905	10.0000	10
115 alpha-Terpineol	59	6.522	6.523 (1.006)		17496	10.0000	9(a)
33 4-Chloroaniline	127	6.565	6.571 (1.012)		35796	10.0000	9(a)
34 Hexachlorobutadiene	225	6.650	6.651 (1.026)		11539	10.0000	10
102 Caprolactam	113	6.906	6.929 (1.065)		14761	10.0000	9(a)
35 4-Chloro-3-Methylphenol	107	7.072	7.079 (1.091)		29606	10.0000	9(a)
36 2-Methylnaphthalene	142	7.216	7.218 (1.113)		59196	10.0000	10
114 1-Methylnaphthalene	142	7.312	7.314 (1.128)		54031	10.0000	9(a)
38 Hexachlorocyclopentadiene	237	7.377	7.378 (0.901)		9552	10.0000	9(a)
112 1,2,4,5-Tetrachlorobenzene	216	7.382	7.383 (0.902)		26248	10.0000	9(a)
39 2,4,6-Trichlorophenol	196	7.489	7.495 (0.915)		19531	10.0000	9(a)
40 2,4,5-Trichlorophenol	196	7.521	7.527 (0.919)		21580	10.0000	9(a)
\$ 41 2-Fluorobiphenyl	172	7.569	7.570 (0.925)		67432	10.0000	9(a)
98 1,1'-Biphenyl	154	7.660	7.661 (0.936)		80674	10.0000	10
42 2-Chloronaphthalene	162	7.676	7.682 (0.938)		58956	10.0000	10
43 2-Nitroaniline	65	7.772	7.773 (0.950)		19805	10.0000	9(a)
44 Dimethylphthalate	163	7.937	7.939 (0.970)		83921	10.0000	10
45 2,6-Dinitrotoluene	165	7.986	7.992 (0.976)		17073	10.0000	9(a)
46 Acenaphthylene	152	8.055	8.062 (0.984)		105075	10.0000	10
47 3-Nitroaniline	138	8.140	8.142 (0.995)		21617	10.0000	9(a)
* 48 Acenaphthene-d10	164	8.183	8.190 (1.000)		266732	40.0000	
49 Acenaphthene	153	8.210	8.217 (1.003)		65399	10.0000	9(a)
50 2,4-Dinitrophenol	184	8.226	8.233 (1.005)		2594	10.0000	5(aQ)
51 4-Nitrophenol	109	8.285	8.286 (1.012)		13029	10.0000	10(a)
53 2,4-Dinitrotoluene	165	8.343	8.345 (1.020)		22834	10.0000	9(a)
52 Dibenzofuran	168	8.365	8.366 (1.022)		96965	10.0000	10
110 2,3,4,6-Tetrachlorophenol	232	8.472	8.473 (1.035)		21336	10.0000	10
54 Diethylphthalate	149	8.546	8.553 (1.044)		91229	10.0000	10
56 4-Chlorophenyl-phenylether	204	8.653	8.655 (1.057)		39804	10.0000	9(a)
55 Fluorene	166	8.659	8.665 (1.058)		86288	10.0000	10
57 4-Nitroaniline	138	8.669	8.676 (1.059)		26706	10.0000	10(a)
58 4,6-Dinitro-2-methylphenol	198	8.696	8.703 (0.919)		6530	10.0000	6(aQ)
59 N-Nitrosodiphenylamine	169	8.755	8.756 (0.925)		78541	10.0000	9(a)
97 Azobenzene	77	8.787	8.793 (0.929)		88518	10.0000	9(a)
\$ 60 2,4,6-Tribromophenol	330	8.867	8.874 (0.937)		11054	10.0000	9(a)
61 4-Bromophenyl-phenylether	248	9.070	9.077 (0.959)		24868	10.0000	9(a)
62 Hexachlorobenzene	284	9.139	9.141 (0.966)		27279	10.0000	9(a)
100 Atrazine	200	9.193	9.199 (0.972)		26279	10.0000	9(a)
63 Pentachlorophenol	266	9.300	9.301 (0.983)		19023	10.0000	9(a)
111 Pentachloronitrobenzene	237	9.310	9.317 (0.984)		12064	10.0000	9(a)
* 64 Phenanthrene-d10	188	9.460	9.467 (1.000)		632492	40.0000	

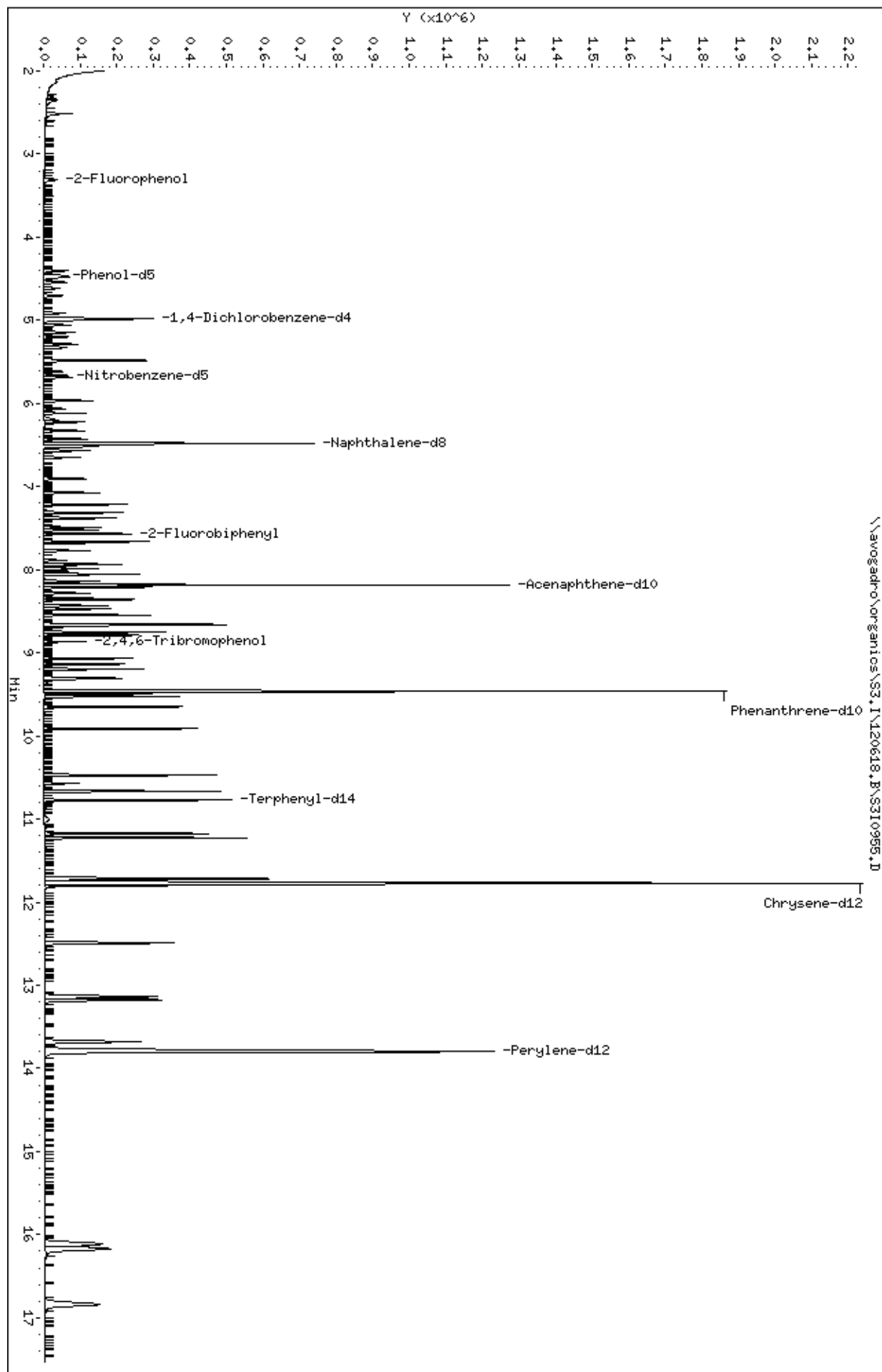
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====		=====	=====
65 Phenanthrene	178	9.481	9.483 (1.002)		141482		10.0000	10
66 Anthracene	178	9.524	9.525 (1.007)		142582		10.0000	10
67 Carbazole	167	9.652	9.654 (1.020)		148177		10.0000	10
68 Di-n-butylphthalate	149	9.914	9.921 (1.048)		178335		10.0000	10
69 Fluoranthene	202	10.475	10.476 (1.107)		174625		10.0000	10
70 Benzidine	184	10.566	10.572 (0.897)		38267		10.0000	8(a)
71 Pyrene	202	10.667	10.674 (0.906)		184556		10.0000	10
\$ 72 Terphenyl-d14	244	10.774	10.781 (0.915)		130277		10.0000	9(a)
73 Butylbenzylphthalate	149	11.175	11.181 (0.949)		92319		10.0000	10
74 3,3'-Dichlorobenzidine	252	11.709	11.721 (0.995)		76144		10.0000	9(a)
78 bis(2-Ethylhexyl)phthalate	149	11.720	11.726 (0.995)		129075		10.0000	10
75 Benzo(a)anthracene	228	11.757	11.764 (0.999)		202003		10.0000	9(a)
* 76 Chrysene-d12	240	11.773	11.780 (1.000)		911467		40.0000	
77 Chrysene	228	11.800	11.806 (1.002)		187098		10.0000	10
79 Di-n-octylphthalate	149	12.494	12.501 (0.906)		220120		10.0000	9(a)
80 Benzo(b)fluoranthene	252	13.135	13.153 (0.952)		198888		10.0000	9(a)
81 Benzo(k)fluoranthene	252	13.178	13.195 (0.955)		207827		10.0000	9(a)
82 Benzo(a)pyrene	252	13.680	13.698 (0.991)		191682		10.0000	9(a)
* 83 Perylene-d12	264	13.798	13.804 (1.000)		890133		40.0000	
84 Indeno(1,2,3-cd)pyrene	276	16.116	16.144 (1.168)		227792		10.0000	9(a)
85 Dibenzo(a,h)anthracene	278	16.170	16.203 (1.172)		188596		10.0000	9(a)
86 Benzo(g,h,i)perylene	276	16.837	16.881 (1.220)		192652		10.0000	9(a)

QC Flag Legend

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

Data File: \\avogadro\organics\S3,I\120618,B\S3I0955.D
 Date : 18-JUN-2012 15:04
 Client ID: SSTD0103B
 Sample Info: SSTD0103B,SSTD0103B
 Volume Injected (uL): 1.0
 Column phase: Rxi-5Sil MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120618.B\S3I0956.D
Lab Smp Id: SST0403B Client Smp ID: SST0403B
Inj Date : 18-JUN-2012 15:30
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SST0403B, SST0403B
Misc Info : 1,4
Comment :
Method : \\avogadro\organics\S3.I\120618.B\s3_8270C_N.m
Meth Date : 19-Jun-2012 14:37 pkaczorows Quant Type: ISTD
Cal Date : 18-JUN-2012 15:30 Cal File: S3I0956.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

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 109 1,4-Dioxane-d8	96	2.121	2.127 (0.426)		8154	40.0000	35
108 1,4-Dioxane	58	2.142	2.143 (0.430)		6712	40.0000	35
1 N-Nitrosodimethylamine	74	2.303	2.303 (0.462)		27253	40.0000	40
2 Pyridine	79	2.351	2.351 (0.472)		45513	40.0000	40
\$ 3 2-Fluorophenol	112	3.312	3.312 (0.665)		45821	40.0000	41
101 Benzaldehyde	77	4.397	4.402 (0.882)		40260	40.0000	41
\$ 5 Phenol-d5	99	4.466	4.466 (0.896)		81489	40.0000	44
6 Phenol	94	4.482	4.482 (0.899)		82144	40.0000	44
7 Aniline	66	4.541	4.541 (0.911)		37128	40.0000	42
8 bis(2-Chloroethyl)Ether	63	4.616	4.616 (0.926)		39534	40.0000	41
10 2-Chlorophenol	128	4.701	4.701 (0.943)		55924	40.0000	42
11 1,3-Dichlorobenzene	146	4.910	4.910 (0.985)		47431	40.0000	39
* 12 1,4-Dichlorobenzene-d4	152	4.984	4.985 (1.000)		36084	40.0000	
13 1,4-Dichlorobenzene	146	5.006	5.006 (1.004)		49175	40.0000	39
117 2-Ethyl-1-hexanol	57	5.059	5.059 (1.015)		64711	40.0000	41
15 Benzyl Alcohol	108	5.145	5.150 (1.032)		47519	40.0000	44
16 1,2-Dichlorobenzene	146	5.198	5.198 (1.043)		49729	40.0000	40
17 2-Methylphenol	108	5.289	5.294 (1.061)		63675	40.0000	45
18 2,2'-oxybis(1-Chloropropane)	45	5.326	5.326 (1.069)		96050	40.0000	42
99 Acetophenone	105	5.481	5.481 (1.100)		104468	40.0000	44

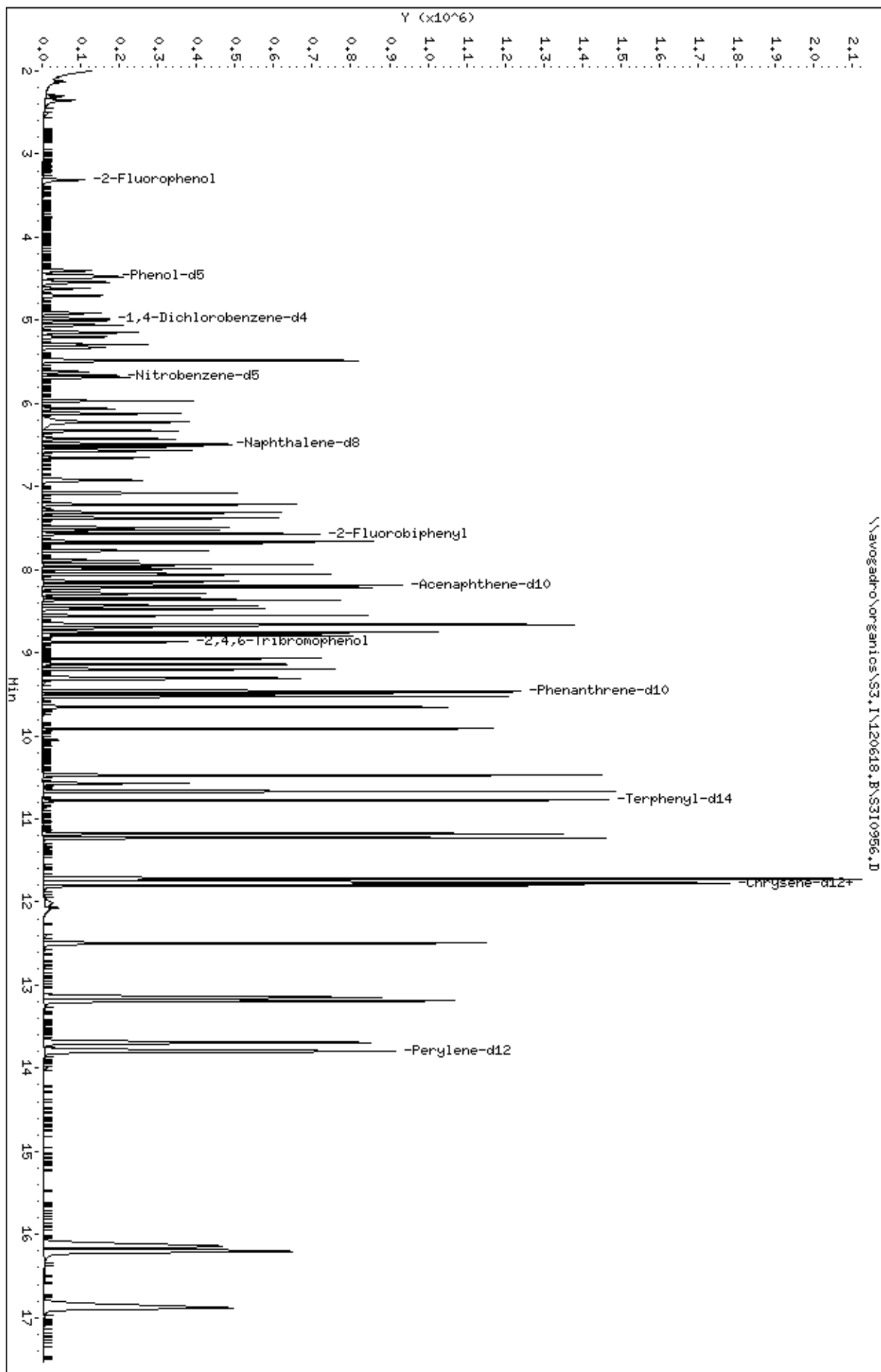
Data File: \\avogadro\organics\S3.I\120618.B\S3I0956.D
Report Date: 19-Jun-2012 14:39

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====		=====	=====
19 N-Nitroso-di-n-propylamine	70	5.487	5.487	(1.101)	53500		40.0000	44
20 4-Methylphenol	108	5.487	5.487	(1.101)	73218		40.0000	45
21 Hexachloroethane	117	5.615	5.620	(1.126)	17114		40.0000	40
\$ 22 Nitrobenzene-d5	82	5.668	5.668	(0.874)	69237		40.0000	39
23 Nitrobenzene	77	5.690	5.690	(0.877)	73306		40.0000	40
24 Isophorone	82	5.967	5.973	(0.920)	163653		40.0000	41
25 2-Nitrophenol	139	6.063	6.064	(0.935)	34327		40.0000	41
26 2,4-Dimethylphenol	107	6.117	6.122	(0.943)	72283		40.0000	40
27 bis(2-Chloroethoxy)methane	93	6.224	6.224	(0.960)	89834		40.0000	41
28 Benzoic Acid	105	6.234	6.229	(0.961)	79195		40.0000	45
29 2,4-Dichlorophenol	162	6.331	6.331	(0.976)	65088		40.0000	41
30 1,2,4-Trichlorobenzene	180	6.427	6.427	(0.991)	59952		40.0000	40
* 31 Naphthalene-d8	136	6.486	6.486	(1.000)	216209		40.0000	
32 Naphthalene	128	6.507	6.507	(1.003)	207945		40.0000	40
115 alpha-Terpineol	59	6.523	6.523	(1.006)	51517		40.0000	41
33 4-Chloroaniline	127	6.566	6.571	(1.012)	111501		40.0000	43
34 Hexachlorobutadiene	225	6.651	6.651	(1.026)	30261		40.0000	38
102 Caprolactam	113	6.929	6.929	(1.068)	46296		40.0000	44
35 4-Chloro-3-Methylphenol	107	7.078	7.079	(1.091)	91827		40.0000	43
36 2-Methylnaphthalene	142	7.217	7.218	(1.113)	169958		40.0000	41
114 1-Methylnaphthalene	142	7.314	7.314	(1.128)	162637		40.0000	42
38 Hexachlorocyclopentadiene	237	7.378	7.378	(0.901)	28608		40.0000	36
112 1,2,4,5-Tetrachlorobenzene	216	7.383	7.383	(0.902)	77802		40.0000	38
39 2,4,6-Trichlorophenol	196	7.490	7.495	(0.915)	60163		40.0000	40
40 2,4,5-Trichlorophenol	196	7.527	7.527	(0.920)	66976		40.0000	40
\$ 41 2-Fluorobiphenyl	172	7.570	7.570	(0.925)	201621		40.0000	39
98 1,1'-Biphenyl	154	7.661	7.661	(0.936)	239306		40.0000	39
42 2-Chloronaphthalene	162	7.677	7.682	(0.938)	171105		40.0000	39
43 2-Nitroaniline	65	7.773	7.773	(0.950)	63572		40.0000	41
44 Dimethylphthalate	163	7.939	7.939	(0.970)	249434		40.0000	40
45 2,6-Dinitrotoluene	165	7.992	7.992	(0.977)	56495		40.0000	42
46 Acenaphthylene	152	8.056	8.062	(0.984)	316380		40.0000	40
47 3-Nitroaniline	138	8.142	8.142	(0.995)	70771		40.0000	42
* 48 Acenaphthene-d10	164	8.184	8.190	(1.000)	193176		40.0000	
49 Acenaphthene	153	8.216	8.217	(1.004)	196757		40.0000	39
50 2,4-Dinitrophenol	184	8.232	8.233	(1.006)	17008		40.0000	43
51 4-Nitrophenol	109	8.286	8.286	(1.012)	41261		40.0000	42
53 2,4-Dinitrotoluene	165	8.345	8.345	(1.020)	79679		40.0000	43
52 Dibenzofuran	168	8.366	8.366	(1.022)	285013		40.0000	39
110 2,3,4,6-Tetrachlorophenol	232	8.473	8.473	(1.035)	60070		40.0000	38
54 Diethylphthalate	149	8.553	8.553	(1.045)	266921		40.0000	40
56 4-Chlorophenyl-phenylether	204	8.654	8.655	(1.057)	120316		40.0000	39
55 Fluorene	166	8.660	8.665	(1.058)	259681		40.0000	40
57 4-Nitroaniline	138	8.676	8.676	(1.060)	81001		40.0000	42
58 4,6-Dinitro-2-methylphenol	198	8.697	8.703	(0.919)	35703		40.0000	43
59 N-Nitrosodiphenylamine	169	8.756	8.756	(0.925)	230378		40.0000	40
97 Azobenzene	77	8.793	8.793	(0.929)	260791		40.0000	40
\$ 60 2,4,6-Tribromophenol	330	8.868	8.874	(0.937)	34468		40.0000	40
61 4-Bromophenyl-phenylether	248	9.071	9.077	(0.959)	74071		40.0000	39
62 Hexachlorobenzene	284	9.141	9.141	(0.966)	80432		40.0000	39
100 Atrazine	200	9.199	9.199	(0.972)	77860		40.0000	40
63 Pentachlorophenol	266	9.301	9.301	(0.983)	59310		40.0000	39
111 Pentachloronitrobenzene	237	9.311	9.317	(0.984)	37577		40.0000	41
* 64 Phenanthrene-d10	188	9.461	9.467	(1.000)	441503		40.0000	

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====		=====	=====
65 Phenanthrene	178	9.482	9.483	(1.002)	409053		40.0000	40
66 Anthracene	178	9.525	9.525	(1.007)	420335		40.0000	40
67 Carbazole	167	9.653	9.654	(1.020)	406861		40.0000	40
68 Di-n-butylphthalate	149	9.915	9.921	(1.048)	506916		40.0000	40
69 Fluoranthene	202	10.476	10.476	(1.107)	516056		40.0000	41
70 Benzidine	184	10.567	10.572	(0.897)	135707		40.0000	43
71 Pyrene	202	10.668	10.674	(0.906)	537233		40.0000	39
\$ 72 Terphenyl-d14	244	10.775	10.781	(0.915)	385447		40.0000	39
73 Butylbenzylphthalate	149	11.176	11.181	(0.949)	270963		40.0000	40
74 3,3'-Dichlorobenzidine	252	11.715	11.721	(0.995)	243340		40.0000	41
78 bis(2-Ethylhexyl)phthalate	149	11.721	11.726	(0.995)	387634		40.0000	40
75 Benzo(a)anthracene	228	11.758	11.764	(0.999)	600184		40.0000	40
* 76 Chrysene-d12	240	11.774	11.780	(1.000)	645281		40.0000	
77 Chrysene	228	11.801	11.806	(1.002)	552843		40.0000	40
79 Di-n-octylphthalate	149	12.495	12.501	(0.906)	682697		40.0000	40
80 Benzo(b)fluoranthene	252	13.147	13.153	(0.953)	631215		40.0000	41
81 Benzo(k)fluoranthene	252	13.190	13.195	(0.956)	645994		40.0000	40
82 Benzo(a)pyrene	252	13.692	13.698	(0.993)	611945		40.0000	41
* 83 Perylene-d12	264	13.794	13.804	(1.000)	627842		40.0000	
84 Indeno(1,2,3-cd)pyrene	276	16.139	16.144	(1.170)	757595		40.0000	42
85 Dibenzo(a,h)anthracene	278	16.203	16.203	(1.175)	639200		40.0000	43
86 Benzo(g,h,i)perylene	276	16.881	16.881	(1.224)	642819		40.0000	42

Data File: \\avogadro\organics\S3,I\120618,B\S3I0956.D
 Date : 18-JUN-2012 15:30
 Client ID: SSTID0403B
 Sample Info: SSTID0403B,SSTID0403B
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Data File: \\avogadro\organics\S3.I\120621.B\S3I1011.D
 Report Date: 22-Jun-2012 14:42

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120621.B\S3I1011.D
 Lab Smp Id: SST0253D Client Smp ID: SST0253D
 Inj Date : 21-JUN-2012 17:33
 Operator : PK/DL SRC: PK/DL Inst ID: S3.i
 Smp Info : SST0253D, SST0253D
 Misc Info : 2,3
 Comment :
 Method : \\avogadro\organics\S3.I\120621.B\s3_8270C_N.m
 Meth Date : 22-Jun-2012 14:36 pkaczorows Quant Type: ISTD
 Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
\$ 109 1,4-Dioxane-d8	96	2.078	2.078 (0.422)		6179	25.0000	25
108 1,4-Dioxane	58	2.094	2.095 (0.425)		4532	25.0000	24
1 N-Nitrosodimethylamine	74	2.259	2.255 (0.459)		18395	25.0000	24
2 Pyridine	79	2.302	2.303 (0.468)		28167	25.0000	24
\$ 3 2-Fluorophenol	112	3.253	3.253 (0.661)		26840	25.0000	23
101 Benzaldehyde	77	4.337	4.333 (0.881)		29559	25.0000	29
\$ 5 Phenol-d5	99	4.401	4.401 (0.894)		49122	25.0000	23
6 Phenol	94	4.422	4.418 (0.898)		50915	25.0000	24
7 Aniline	66	4.476	4.477 (0.909)		20657	25.0000	24
8 bis(2-Chloroethyl)Ether	63	4.556	4.557 (0.925)		23963	25.0000	24
10 2-Chlorophenol	128	4.641	4.643 (0.943)		33230	25.0000	23
11 1,3-Dichlorobenzene	146	4.850	4.851 (0.985)		31193	25.0000	24
* 12 1,4-Dichlorobenzene-d4	152	4.924	4.921 (1.000)		38104	40.0000	
13 1,4-Dichlorobenzene	146	4.946	4.942 (1.004)		32158	25.0000	24
117 2-Ethyl-1-hexanol	57	4.999	4.999 (1.015)		39822	25.0000	24
15 Benzyl Alcohol	108	5.090	5.091 (1.034)		30020	25.0000	24
16 1,2-Dichlorobenzene	146	5.143	5.139 (1.044)		32410	25.0000	24
17 2-Methylphenol	108	5.234	5.236 (1.063)		39635	25.0000	24
18 2,2'-oxybis(1-Chloropropane)	45	5.272	5.268 (1.070)		57562	25.0000	24
99 Acetophenone	105	5.426	5.423 (1.102)		64976	25.0000	24

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL - AMT	ON - COL
								(ng)	(ng)
=====	=====		=====	=====	=====	=====	=====	=====	
19 N-Nitroso-di-n-propylamine	70		5.426	5.428	(1.102)	32844	25.0000	25	
20 4-Methylphenol	108		5.432	5.428	(1.103)	45486	25.0000	24	
21 Hexachloroethane	117		5.560	5.561	(1.129)	10373	25.0000	24	
\$ 22 Nitrobenzene-d5	82		5.608	5.608	(0.872)	37927	25.0000	24	
23 Nitrobenzene	77		5.629	5.631	(0.875)	39897	25.0000	24	
24 Isophorone	82		5.913	5.914	(0.919)	105442	25.0000	25	
25 2-Nitrophenol	139		6.009	6.005	(0.934)	15892	25.0000	20	
26 2,4-Dimethylphenol	107		6.067	6.063	(0.944)	40086	25.0000	23	
27 bis(2-Chloroethoxy)methane	93		6.169	6.170	(0.959)	59521	25.0000	25	
28 Benzoic Acid	105		6.142	6.154	(0.955)	21616	25.0000	14(a)	
29 2,4-Dichlorophenol	162		6.276	6.277	(0.976)	39810	25.0000	24	
30 1,2,4-Trichlorobenzene	180		6.372	6.373	(0.991)	37384	25.0000	24	
* 31 Naphthalene-d8	136		6.431	6.427	(1.000)	231520	40.0000		
32 Naphthalene	128		6.452	6.453	(1.003)	141701	25.0000	24	
115 alpha-Terpineol	59		6.468	6.469	(1.006)	31008	25.0000	25	
33 4-Chloroaniline	127		6.516	6.517	(1.013)	72256	25.0000	24	
34 Hexachlorobutadiene	225		6.602	6.598	(1.027)	17598	25.0000	24	
102 Caprolactam	113		6.853	6.859	(1.066)	34202	25.0000	24	
35 4-Chloro-3-Methylphenol	107		7.023	7.025	(1.092)	59277	25.0000	25	
36 2-Methylnaphthalene	142		7.162	7.164	(1.114)	116883	25.0000	25	
114 1-Methylnaphthalene	142		7.258	7.260	(1.129)	112328	25.0000	24	
38 Hexachlorocyclopentadiene	237		7.328	7.324	(0.901)	14790	25.0000	22	
112 1,2,4,5-Tetrachlorobenzene	216		7.328	7.329	(0.901)	48751	25.0000	24	
39 2,4,6-Trichlorophenol	196		7.440	7.441	(0.915)	37257	25.0000	24	
40 2,4,5-Trichlorophenol	196		7.472	7.474	(0.919)	41563	25.0000	23	
\$ 41 2-Fluorobiphenyl	172		7.515	7.515	(0.924)	138752	25.0000	25	
98 1,1'-Biphenyl	154		7.611	7.607	(0.936)	163703	25.0000	25	
42 2-Chloronaphthalene	162		7.627	7.623	(0.938)	116499	25.0000	24	
43 2-Nitroaniline	65		7.718	7.719	(0.949)	31953	25.0000	21	
44 Dimethylphthalate	163		7.883	7.885	(0.970)	182489	25.0000	25	
45 2,6-Dinitrotoluene	165		7.937	7.938	(0.976)	35756	25.0000	24	
46 Acenaphthylene	152		8.006	8.002	(0.985)	229753	25.0000	25	
47 3-Nitroaniline	138		8.086	8.088	(0.995)	51212	25.0000	23	
* 48 Acenaphthene-d10	164		8.129	8.130	(1.000)	215159	40.0000		
49 Acenaphthene	153		8.161	8.157	(1.004)	140850	25.0000	25	
50 2,4-Dinitrophenol	184		8.177	8.179	(1.006)	5352	25.0000	12(aQ)	
51 4-Nitrophenol	109		8.236	8.237	(1.013)	22860	25.0000	23	
53 2,4-Dinitrotoluene	165		8.289	8.291	(1.020)	49611	25.0000	23	
52 Dibenzofuran	168		8.311	8.312	(1.022)	209749	25.0000	25	
110 2,3,4,6-Tetrachlorophenol	232		8.417	8.419	(1.035)	44744	25.0000	22	
54 Diethylphthalate	149		8.498	8.499	(1.045)	190972	25.0000	25	
56 4-Chlorophenyl-phenylether	204		8.604	8.600	(1.058)	81974	25.0000	24	
55 Fluorene	166		8.610	8.606	(1.059)	187321	25.0000	25	
57 4-Nitroaniline	138		8.620	8.622	(1.060)	64689	25.0000	24	
58 4,6-Dinitro-2-methylphenol	198		8.642	8.643	(0.919)	13246	25.0000	14(aQ)	
59 N-Nitrosodiphenylamine	169		8.701	8.702	(0.925)	175623	25.0000	25	
97 Azobenzene	77		8.738	8.739	(0.929)	178501	25.0000	25	
\$ 60 2,4,6-Tribromophenol	330		8.818	8.818	(0.938)	20863	25.0000	22	
61 4-Bromophenyl-phenylether	248		9.021	9.017	(0.959)	53988	25.0000	25	
62 Hexachlorobenzene	284		9.085	9.081	(0.966)	57537	25.0000	24	
100 Atrazine	200		9.144	9.145	(0.972)	61053	25.0000	26	
63 Pentachlorophenol	266		9.245	9.247	(0.983)	37839	25.0000	22	
111 Pentachloronitrobenzene	237		9.256	9.257	(0.984)	20673	25.0000	24	
* 64 Phenanthrene-d10	188		9.406	9.407	(1.000)	539704	40.0000		

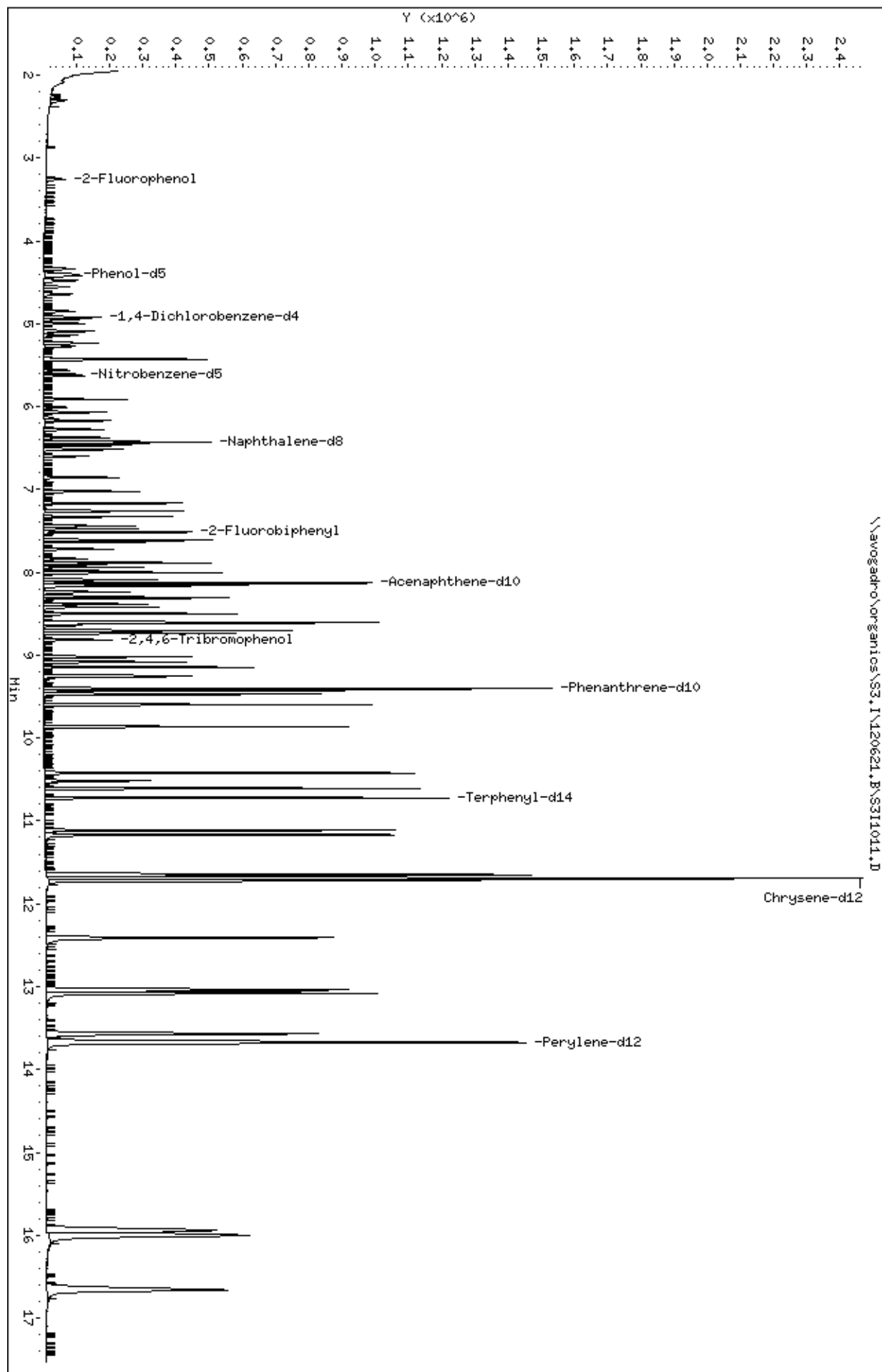
						AMOUNTS		
		QUANT SIG					CAL -AMT	ON -COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)	
=====	=====	=====	=====	=====	=====	=====	=====	
65 Phenanthrene	178	9.427	9.428	(1.002)	316092	25.0000	25	
66 Anthracene	178	9.470	9.466	(1.007)	318810	25.0000	25	
67 Carbazole	167	9.598	9.599	(1.020)	358393	25.0000	25	
68 Di-n-butylphthalate	149	9.865	9.866	(1.049)	391473	25.0000	25	
69 Fluoranthene	202	10.420	10.422	(1.108)	426462	25.0000	24	
70 Benzidine	184	10.517	10.513	(0.899)	134702	25.0000	20	
71 Pyrene	202	10.613	10.609	(0.907)	447816	25.0000	26	
\$ 72 Terphenyl-d14	244	10.719	10.719	(0.916)	314292	25.0000	26	
73 Butylbenzylphthalate	149	11.115	11.116	(0.950)	216625	25.0000	25	
74 3,3'-Dichlorobenzidine	252	11.638	11.645	(0.995)	204578	25.0000	26	
78 bis(2-Ethylhexyl)phthalate	149	11.649	11.656	(0.996)	323837	25.0000	26	
75 Benzo(a)anthracene	228	11.681	11.682	(0.999)	530426	25.0000	24	
* 76 Chrysene-d12	240	11.697	11.698	(1.000)	902230	40.0000		
77 Chrysene	228	11.724	11.725	(1.002)	509251	25.0000	25	
79 Di-n-octylphthalate	149	12.407	12.414	(0.907)	569939	25.0000	26	
80 Benzo(b)fluoranthene	252	13.038	13.044	(0.954)	589287	25.0000	25	
81 Benzo(k)fluoranthene	252	13.080	13.087	(0.957)	650203	25.0000	25	
82 Benzo(a)pyrene	252	13.572	13.573	(0.993)	593476	25.0000	25	
* 83 Perylene-d12	264	13.673	13.680	(1.000)	994838	40.0000		
84 Indeno(1,2,3-cd)pyrene	276	15.943	15.960	(1.166)	759829	25.0000	24	
85 Dibenzo(a,h)anthracene	278	16.002	16.019	(1.170)	624399	25.0000	25	
86 Benzo(g,h,i)perylene	276	16.659	16.676	(1.218)	664628	25.0000	25	

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\S3,I\120621,B\S3I1011.D
 Date : 21-JUN-2012 17:33
 Client ID: SSTID0253D
 Sample Info: SSTID0253D,SSTID0253D
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120621.B\S3I1012.D
Lab Smp Id: SST0053D Client Smp ID: SST0053D
Inj Date : 21-JUN-2012 18:00
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SST0053D, SST0053D
Misc Info : 1,1
Comment :
Method : \\avogadro\organics\S3.I\120621.B\s3_8270C_N.m
Meth Date : 22-Jun-2012 14:36 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.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

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 109 1,4-Dioxane-d8	96	2.081	2.078 (0.423)		609	5.00000	5(a)
108 1,4-Dioxane	58	2.097	2.095 (0.426)		416	5.00000	4(aQ)
1 N-Nitrosodimethylamine	74	2.263	2.255 (0.460)		1840	5.00000	5(a)
2 Pyridine	79	2.316	2.303 (0.471)		2704	5.00000	5(Ta)
\$ 3 2-Fluorophenol	112	3.256	3.253 (0.661)		2574	5.00000	4(a)
101 Benzaldehyde	77	4.340	4.333 (0.882)		2782	5.00000	6(a)
\$ 5 Phenol-d5	99	4.404	4.401 (0.895)		4669	5.00000	5(a)
6 Phenol	94	4.426	4.418 (0.899)		4687	5.00000	4(a)
7 Aniline	66	4.479	4.477 (0.910)		1691	5.00000	4(aQ)
8 bis(2-Chloroethyl)Ether	63	4.559	4.557 (0.926)		2449	5.00000	5(a)
10 2-Chlorophenol	128	4.645	4.643 (0.944)		3157	5.00000	5(a)
11 1,3-Dichlorobenzene	146	4.853	4.851 (0.986)		3138	5.00000	5(a)
* 12 1,4-Dichlorobenzene-d4	152	4.922	4.921 (1.000)		18205	40.0000	
13 1,4-Dichlorobenzene	146	4.944	4.942 (1.004)		3241	5.00000	5(a)
117 2-Ethyl-1-hexanol	57	5.003	4.999 (1.016)		3316	5.00000	4(a)
15 Benzyl Alcohol	108	5.093	5.091 (1.035)		2703	5.00000	4(a)
16 1,2-Dichlorobenzene	146	5.141	5.139 (1.044)		3245	5.00000	5(a)
17 2-Methylphenol	108	5.232	5.236 (1.063)		3609	5.00000	5(a)
18 2,2'-oxybis(1-Chloropropane)	45	5.275	5.268 (1.072)		5537	5.00000	5(a)
99 Acetophenone	105	5.424	5.423 (1.102)		6447	5.00000	5(a)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====		=====	=====
19 N-Nitroso-di-n-propylamine	70	5.430	5.428 (1.103)		2911		5.00000	5(a)
20 4-Methylphenol	108	5.430	5.428 (1.103)		4229		5.00000	5(a)
21 Hexachloroethane	117	5.558	5.561 (1.129)		1077		5.00000	5(a)
\$ 22 Nitrobenzene-d5	82	5.611	5.608 (0.873)		3263		5.00000	4(a)
23 Nitrobenzene	77	5.633	5.631 (0.876)		3462		5.00000	4(aM)M6 PK 06/22
24 Isophorone	82	5.916	5.914 (0.920)		9957		5.00000	5(a)
25 2-Nitrophenol	139	6.007	6.005 (0.934)		1733		5.00000	4(aQ)
26 2,4-Dimethylphenol	107	6.065	6.063 (0.944)		3496		5.00000	4(a)
27 bis(2-Chloroethoxy)methane	93	6.172	6.170 (0.960)		5859		5.00000	5(a)
28 Benzoic Acid	105	6.119	6.154 (0.952)		2544		5.00000	3(aH)
29 2,4-Dichlorophenol	162	6.279	6.277 (0.977)		3758		5.00000	4(a)
30 1,2,4-Trichlorobenzene	180	6.370	6.373 (0.991)		4168		5.00000	5(a)
* 31 Naphthalene-d8	136	6.429	6.427 (1.000)		115133	40.0000		
32 Naphthalene	128	6.450	6.453 (1.003)		15058	5.00000		5(a)
115 alpha-Terpineol	59	6.471	6.469 (1.007)		2814	5.00000		4(a)
33 4-Chloroaniline	127	6.514	6.517 (1.013)		7275	5.00000		5(a)
34 Hexachlorobutadiene	225	6.600	6.598 (1.027)		1985	5.00000		5(a)
102 Caprolactam	113	6.840	6.859 (1.064)		4235	5.00000		6(a)
35 4-Chloro-3-Methylphenol	107	7.021	7.025 (1.092)		5944	5.00000		5(a)
36 2-Methylnaphthalene	142	7.160	7.164 (1.114)		12456	5.00000		5(a)
114 1-Methylnaphthalene	142	7.256	7.260 (1.129)		12834	5.00000		6(a)
38 Hexachlorocyclopentadiene	237	7.326	7.324 (0.901)		1084	5.00000		3(TaQ)
112 1,2,4,5-Tetrachlorobenzene	216	7.326	7.329 (0.901)		6042	5.00000		5(a)
39 2,4,6-Trichlorophenol	196	7.438	7.441 (0.915)		4096	5.00000		5(a)
40 2,4,5-Trichlorophenol	196	7.470	7.474 (0.919)		5587	5.00000		5(a)
\$ 41 2-Fluorobiphenyl	172	7.518	7.515 (0.925)		15620	5.00000		5(a)
98 1,1'-Biphenyl	154	7.609	7.607 (0.936)		18792	5.00000		5(a)
42 2-Chloronaphthalene	162	7.625	7.623 (0.938)		13627	5.00000		5(a)
43 2-Nitroaniline	65	7.716	7.719 (0.949)		2716	5.00000		3(a)
44 Dimethylphthalate	163	7.881	7.885 (0.970)		22037	5.00000		5(a)
45 2,6-Dinitrotoluene	165	7.935	7.938 (0.976)		2576	5.00000		3(a)
46 Acenaphthylene	152	8.004	8.002 (0.985)		26664	5.00000		5(a)
47 3-Nitroaniline	138	8.084	8.088 (0.995)		5147	5.00000		4(a)
* 48 Acenaphthene-d10	164	8.127	8.130 (1.000)		120431	40.0000		
49 Acenaphthene	153	8.159	8.157 (1.004)		16480	5.00000		5(a)
50 2,4-Dinitrophenol	184	8.180	8.179 (1.007)		300	5.00000		1(aQ)
51 4-Nitrophenol	109	8.234	8.237 (1.013)		2888	5.00000		5(a)
53 2,4-Dinitrotoluene	165	8.287	8.291 (1.020)		4005	5.00000		3(a)
52 Dibenzofuran	168	8.309	8.312 (1.022)		26926	5.00000		6(a)
110 2,3,4,6-Tetrachlorophenol	232	8.421	8.419 (1.036)		7346	5.00000		6
54 Diethylphthalate	149	8.496	8.499 (1.045)		23691	5.00000		5(a)
56 4-Chlorophenyl-phenylether	204	8.602	8.600 (1.058)		10194	5.00000		5(a)
55 Fluorene	166	8.608	8.606 (1.059)		23600	5.00000		6(a)
57 4-Nitroaniline	138	8.613	8.622 (1.060)		7930	5.00000		5(a)
58 4,6-Dinitro-2-methylphenol	198	8.640	8.643 (0.919)		1091	5.00000		2(aQ)
59 N-Nitrosodiphenylamine	169	8.699	8.702 (0.925)		22193	5.00000		5(a)
97 Azobenzene	77	8.736	8.739 (0.929)		21492	5.00000		5(a)
\$ 60 2,4,6-Tribromophenol	330	8.816	8.818 (0.938)		2690	5.00000		4(a)
61 4-Bromophenyl-phenylether	248	9.019	9.017 (0.959)		6806	5.00000		5(a)
62 Hexachlorobenzene	284	9.083	9.081 (0.966)		8068	5.00000		5(a)
100 Atrazine	200	9.142	9.145 (0.972)		7133	5.00000		5(a)
63 Pentachlorophenol	266	9.249	9.247 (0.984)		5231	5.00000		5(a)
111 Pentachloronitrobenzene	237	9.254	9.257 (0.984)		1811	5.00000		3(TaQ)
* 64 Phenanthrene-d10	188	9.404	9.407 (1.000)		345651	40.0000		

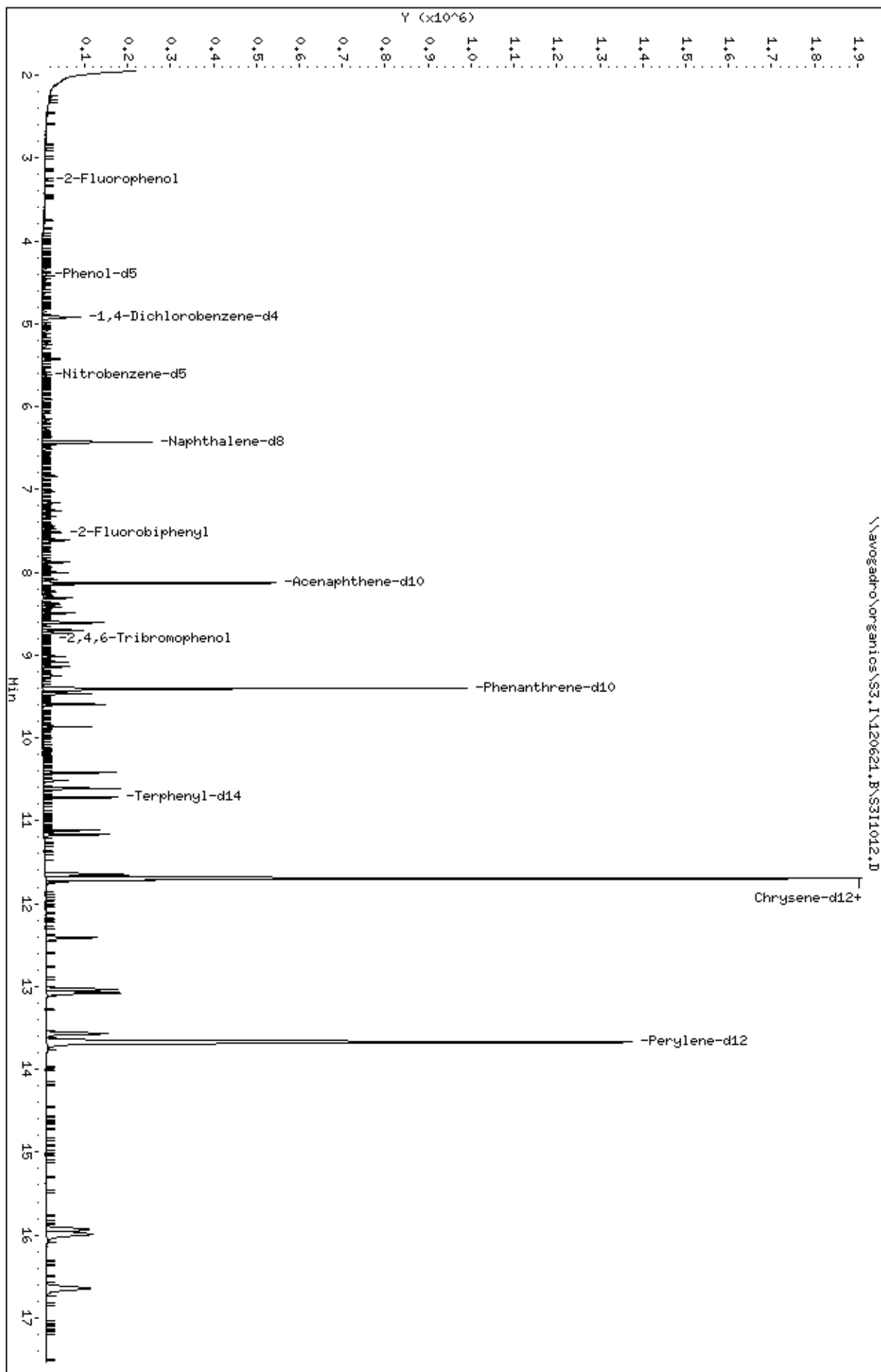
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====		=====	=====
65 Phenanthrene	178	9.425	9.428 (1.002)		44430		5.00000	5(a)
66 Anthracene	178	9.468	9.466 (1.007)		42876		5.00000	5(a)
67 Carbazole	167	9.596	9.599 (1.020)		54790		5.00000	6(a)
68 Di-n-butylphthalate	149	9.863	9.866 (1.049)		51075		5.00000	5(a)
69 Fluoranthene	202	10.418	10.422 (1.108)		64213		5.00000	6(a)
70 Benzidine	184	10.515	10.513 (0.899)		27645		5.00000	5(a)
71 Pyrene	202	10.611	10.609 (0.907)		70678		5.00000	5(a)
\$ 72 Terphenyl-d14	244	10.717	10.719 (0.916)		49039		5.00000	5(a)
73 Butylbenzylphthalate	149	11.113	11.116 (0.950)		31533		5.00000	4(a)
74 3,3'-Dichlorobenzidine	252	11.641	11.645 (0.995)		34086		5.00000	5(a)
78 bis(2-Ethylhexyl)phthalate	149	11.652	11.656 (0.996)		49967		5.00000	5(a)
75 Benzo(a)anthracene	228	11.684	11.682 (0.999)		96972		5.00000	5(a)
* 76 Chrysene-d12	240	11.695	11.698 (1.000)		766946		40.0000	
77 Chrysene	228	11.722	11.725 (1.002)		91490		5.00000	5(a)
79 Di-n-octylphthalate	149	12.411	12.414 (0.908)		85056		5.00000	4(a)
80 Benzo(b)fluoranthene	252	13.035	13.044 (0.954)		107450		5.00000	5(a)
81 Benzo(k)fluoranthene	252	13.078	13.087 (0.957)		122784		5.00000	5(a)
82 Benzo(a)pyrene	252	13.564	13.573 (0.992)		110613		5.00000	5(a)
* 83 Perylene-d12	264	13.671	13.680 (1.000)		926265		40.0000	
84 Indeno(1,2,3-cd)pyrene	276	15.936	15.960 (1.166)		144692		5.00000	5(a)
85 Dibenzo(a,h)anthracene	278	15.994	16.019 (1.170)		115904		5.00000	5(a)
86 Benzo(g,h,i)perylene	276	16.646	16.676 (1.218)		129357		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.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Data File: \\avogadro\organics\S3,I\120621,B\S3I1012.D
 Date : 21-JUN-2012 18:00
 Client ID: SSTID0053D
 Sample Info: SSTID0053D,SSTID0053D
 Volume Injected (uL): 1.0
 Column phase: Rxi-5Sil MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120621.B\S3I1013.D
Lab Smp Id: SST0803D Client Smp ID: SST0803D
Inj Date : 21-JUN-2012 18:27
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SST0803D, SST0803D
Misc Info : 1,6
Comment :
Method : \\avogadro\organics\S3.I\120621.B\s3_8270C_N.m
Meth Date : 22-Jun-2012 14:36 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.D
Als bottle: 3 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

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 109 1,4-Dioxane-d8	96	2.079	2.078 (0.423)		41425	80.0000	76
108 1,4-Dioxane	58	2.095	2.095 (0.426)		36432	80.0000	87(A)
1 N-Nitrosodimethylamine	74	2.255	2.255 (0.458)		138548	80.0000	82(A)
2 Pyridine	79	2.298	2.303 (0.467)		216990	80.0000	83(A)
\$ 3 2-Fluorophenol	112	3.254	3.253 (0.661)		230615	80.0000	90
101 Benzaldehyde	77	4.338	4.333 (0.882)		108080	80.0000	49
\$ 5 Phenol-d5	99	4.407	4.401 (0.896)		388899	80.0000	84
6 Phenol	94	4.423	4.418 (0.899)		387651	80.0000	83(A)
7 Aniline	66	4.482	4.477 (0.911)		162079	80.0000	85(A)
8 bis(2-Chloroethyl)Ether	63	4.557	4.557 (0.926)		178689	80.0000	82(A)
10 2-Chlorophenol	128	4.642	4.643 (0.944)		269377	80.0000	86(A)
11 1,3-Dichlorobenzene	146	4.851	4.851 (0.986)		223845	80.0000	79
* 12 1,4-Dichlorobenzene-d4	152	4.920	4.921 (1.000)		83055	40.0000	(Q)
13 1,4-Dichlorobenzene	146	4.947	4.942 (1.005)		232687	80.0000	79
117 2-Ethyl-1-hexanol	57	5.000	4.999 (1.016)		303805	80.0000	86(A)
15 Benzyl Alcohol	108	5.091	5.091 (1.035)		221520	80.0000	82(A)
16 1,2-Dichlorobenzene	146	5.144	5.139 (1.046)		233358	80.0000	79
17 2-Methylphenol	108	5.235	5.236 (1.064)		296971	80.0000	83(A)
18 2,2'-oxybis(1-Chloropropane)	45	5.273	5.268 (1.072)		410643	80.0000	79
99 Acetophenone	105	5.428	5.423 (1.103)		438322	80.0000	75

Data File: \\avogadro\organics\S3.I\120621.B\S3I1013.D
Report Date: 22-Jun-2012 14:42

						AMOUNTS			
		QUANT	SIG					CAL - AMT	ON - COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)		
=====	=====	=====	=====	=====	=====	=====	=====		
19 N-Nitroso-di-n-propylamine	70	5.433	5.428	(1.104)	223816	80.0000	78		
20 4-Methylphenol	108	5.433	5.428	(1.104)	331553	80.0000	80(A)		
21 Hexachloroethane	117	5.561	5.561	(1.130)	76730	80.0000	81(A)		
\$ 22 Nitrobenzene-d5	82	5.609	5.608	(0.872)	294643	80.0000	89		
23 Nitrobenzene	77	5.630	5.631	(0.875)	305005	80.0000	88(A)		
24 Isophorone	82	5.919	5.914	(0.920)	686834	80.0000	79		
25 2-Nitrophenol	139	6.010	6.005	(0.934)	146383	80.0000	89(A)		
26 2,4-Dimethylphenol	107	6.068	6.063	(0.944)	341605	80.0000	93(A)		
27 bis(2-Chloroethoxy)methane	93	6.170	6.170	(0.959)	388669	80.0000	79		
28 Benzoic Acid	105	6.213	6.154	(0.966)	232707	80.0000	75		
29 2,4-Dichlorophenol	162	6.282	6.277	(0.977)	289293	80.0000	83(A)		
30 1,2,4-Trichlorobenzene	180	6.373	6.373	(0.991)	255811	80.0000	79		
* 31 Naphthalene-d8	136	6.432	6.427	(1.000)	482179	40.0000			
32 Naphthalene	128	6.453	6.453	(1.003)	920536	80.0000	76		
115 alpha-Terpineol	59	6.474	6.469	(1.007)	213913	80.0000	82(A)		
33 4-Chloroaniline	127	6.517	6.517	(1.013)	490385	80.0000	79		
34 Hexachlorobutadiene	225	6.597	6.598	(1.026)	122206	80.0000	80(A)		
102 Caprolactam	113	6.896	6.859	(1.072)	208045	80.0000	69		
35 4-Chloro-3-Methylphenol	107	7.035	7.025	(1.094)	377360	80.0000	76		
36 2-Methylnaphthalene	142	7.163	7.164	(1.114)	724672	80.0000	74		
114 1-Methylnaphthalene	142	7.259	7.260	(1.129)	697569	80.0000	73		
38 Hexachlorocyclopentadiene	237	7.329	7.324	(0.901)	135925	80.0000	110(A)		
112 1,2,4,5-Tetrachlorobenzene	216	7.329	7.329	(0.901)	311196	80.0000	81(A)		
39 2,4,6-Trichlorophenol	196	7.441	7.441	(0.915)	242677	80.0000	82(A)		
40 2,4,5-Trichlorophenol	196	7.478	7.474	(0.919)	274646	80.0000	80(A)		
\$ 41 2-Fluorobiphenyl	172	7.516	7.515	(0.924)	828310	80.0000	80		
98 1,1'-Biphenyl	154	7.612	7.607	(0.936)	966947	80.0000	78		
42 2-Chloronaphthalene	162	7.628	7.623	(0.938)	699680	80.0000	78		
43 2-Nitroaniline	65	7.724	7.719	(0.949)	245529	80.0000	86(A)		
44 Dimethylphthalate	163	7.895	7.885	(0.970)	1018068	80.0000	74		
45 2,6-Dinitrotoluene	165	7.943	7.938	(0.976)	250448	80.0000	90(A)		
46 Acenaphthylene	152	8.007	8.002	(0.984)	1317149	80.0000	76		
47 3-Nitroaniline	138	8.098	8.088	(0.995)	315559	80.0000	77		
* 48 Acenaphthene-d10	164	8.135	8.130	(1.000)	404159	40.0000			
49 Acenaphthene	153	8.162	8.157	(1.003)	808834	80.0000	76		
50 2,4-Dinitrophenol	184	8.183	8.179	(1.006)	87947	80.0000	110(AQ)		
51 4-Nitrophenol	109	8.248	8.237	(1.014)	137578	80.0000	73		
53 2,4-Dinitrotoluene	165	8.301	8.291	(1.020)	361264	80.0000	89(AQ)		
52 Dibenzofuran	168	8.312	8.312	(1.022)	1177267	80.0000	74		
110 2,3,4,6-Tetrachlorophenol	232	8.424	8.419	(1.035)	270831	80.0000	72		
54 Diethylphthalate	149	8.504	8.499	(1.045)	1052515	80.0000	72		
56 4-Chlorophenyl-phenylether	204	8.605	8.600	(1.058)	473214	80.0000	75		
55 Fluorene	166	8.611	8.606	(1.058)	1022399	80.0000	72		
57 4-Nitroaniline	138	8.637	8.622	(1.062)	356339	80.0000	70		
58 4,6-Dinitro-2-methylphenol	198	8.654	8.643	(0.920)	175677	80.0000	100(A)		
59 N-Nitrosodiphenylamine	169	8.707	8.702	(0.926)	949219	80.0000	78		
97 Azobenzene	77	8.744	8.739	(0.930)	992743	80.0000	81(A)		
\$ 60 2,4,6-Tribromophenol	330	8.819	8.818	(0.938)	142445	80.0000	88		
61 4-Bromophenyl-phenylether	248	9.022	9.017	(0.959)	309091	80.0000	82(A)		
62 Hexachlorobenzene	284	9.086	9.081	(0.966)	322264	80.0000	79		
100 Atrazine	200	9.150	9.145	(0.973)	318246	80.0000	77		
63 Pentachlorophenol	266	9.252	9.247	(0.984)	252171	80.0000	84(A)		
111 Pentachloronitrobenzene	237	9.262	9.257	(0.985)	137807	80.0000	91(A)		
* 64 Phenanthrene-d10	188	9.407	9.407	(1.000)	938752	40.0000			

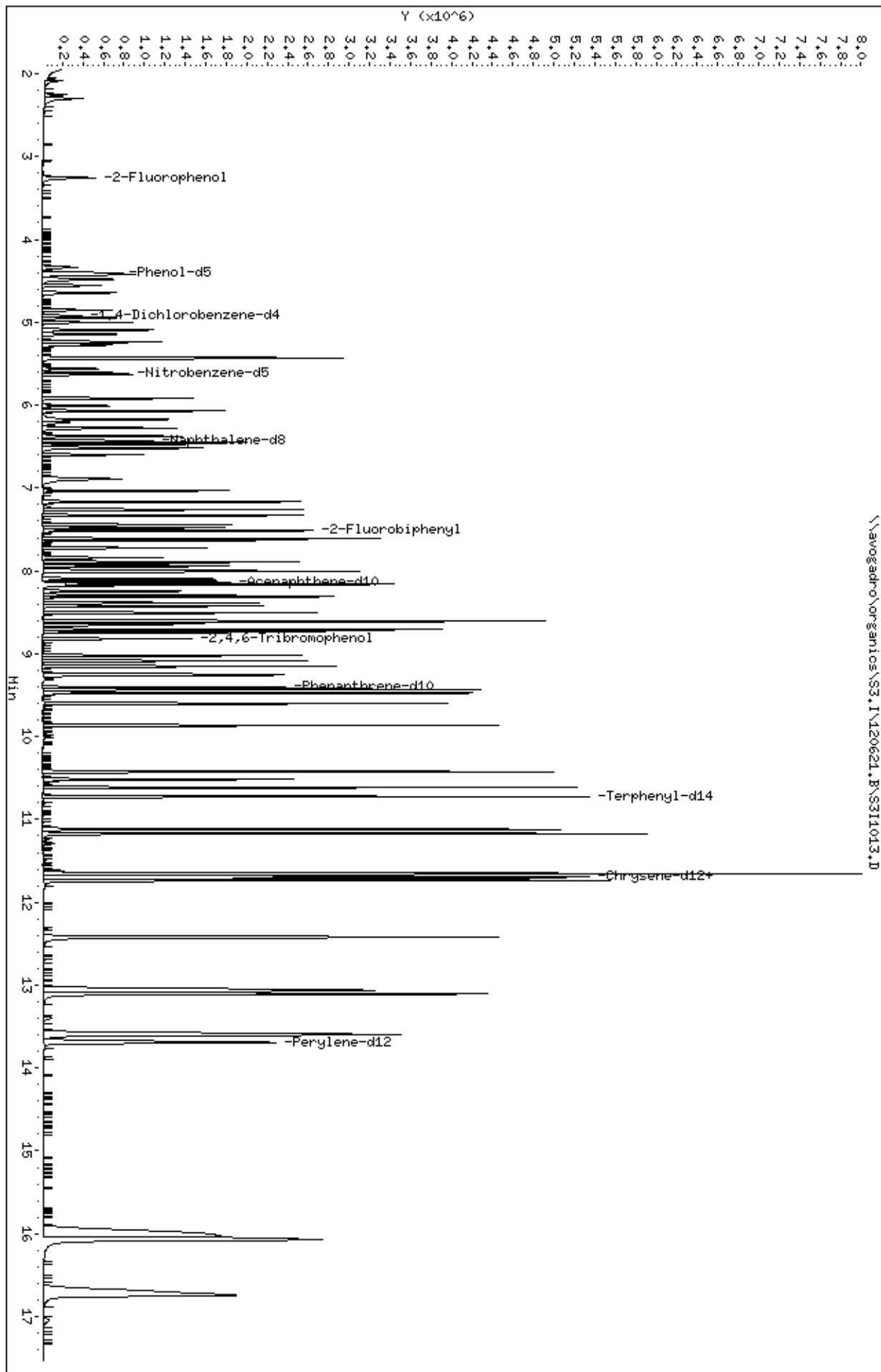
Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
65 Phenanthrene	178	9.433	9.428 (1.003)	1612021	80.0000	73	
66 Anthracene	178	9.476	9.466 (1.007)	1694498	80.0000	75	
67 Carbazole	167	9.599	9.599 (1.020)	1641401	80.0000	66	
68 Di-n-butylphthalate	149	9.866	9.866 (1.049)	1961321	80.0000	73	
69 Fluoranthene	202	10.421	10.422 (1.108)	2048847	80.0000	68	
70 Benzidine	184	10.518	10.513 (0.898)	864695	80.0000	86(A)	
71 Pyrene	202	10.614	10.609 (0.906)	2110632	80.0000	79	
\$ 72 Terphenyl-d14	244	10.726	10.719 (0.916)	1506732	80.0000	80	
73 Butylbenzylphthalate	149	11.121	11.116 (0.950)	1090908	80.0000	83(A)	
74 3,3'-Dichlorobenzidine	252	11.650	11.645 (0.995)	876927	80.0000	72	
78 bis(2-Ethylhexyl)phthalate	149	11.655	11.656 (0.995)	1529151	80.0000	79	
75 Benzo(a)anthracene	228	11.693	11.682 (0.999)	2483867	80.0000	75	
* 76 Chrysene-d12	240	11.709	11.698 (1.000)	1379632	40.0000		
77 Chrysene	228	11.735	11.725 (1.002)	2280934	80.0000	73	
79 Di-n-octylphthalate	149	12.419	12.414 (0.907)	2864467	80.0000	84(A)	
80 Benzo(b)fluoranthene	252	13.060	13.044 (0.954)	2877302	80.0000	80(A)	
81 Benzo(k)fluoranthene	252	13.108	13.087 (0.957)	2968691	80.0000	76	
82 Benzo(a)pyrene	252	13.599	13.573 (0.993)	2875631	80.0000	79	
* 83 Perylene-d12	264	13.690	13.680 (1.000)	1515944	40.0000		
84 Indeno(1,2,3-cd)pyrene	276	16.003	15.960 (1.169)	3670238	80.0000	78	
85 Dibenzo(a,h)anthracene	278	16.078	16.019 (1.174)	3022349	80.0000	78	
86 Benzo(g,h,i)perylene	276	16.745	16.676 (1.223)	3144657	80.0000	76	

QC Flag Legend

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

Data File: \\avogadro\organics\S3,I\120621,B\S3I1013.D
 Date : 21-JUN-2012 18:27
 Client ID: SSTID0803D
 Sample Info: SSTID0803D,SSTID0803D
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120621.B\S3I1014.D
Lab Smp Id: SST0103D Client Smp ID: SST0103D
Inj Date : 21-JUN-2012 18:53
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SST0103D, SST0103D
Misc Info : 1,2
Comment :
Method : \\avogadro\organics\S3.I\120621.B\s3_8270C_N.m
Meth Date : 22-Jun-2012 14:36 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.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

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 109 1,4-Dioxane-d8	96	2.078	2.078 (0.422)		2069	10.0000	10
108 1,4-Dioxane	58	2.099	2.095 (0.426)		1406	10.0000	9(aQ)
1 N-Nitrosodimethylamine	74	2.260	2.255 (0.459)		6681	10.0000	10
2 Pyridine	79	2.308	2.303 (0.469)		8944	10.0000	9(Ta)
\$ 3 2-Fluorophenol	112	3.258	3.253 (0.662)		9098	10.0000	9(a)
101 Benzaldehyde	77	4.337	4.333 (0.881)		10293	10.0000	12
\$ 5 Phenol-d5	99	4.407	4.401 (0.895)		16330	10.0000	9(a)
6 Phenol	94	4.423	4.418 (0.898)		17135	10.0000	10
7 Aniline	66	4.481	4.477 (0.910)		7215	10.0000	10
8 bis(2-Chloroethyl)Ether	63	4.556	4.557 (0.925)		7690	10.0000	9(a)
10 2-Chlorophenol	128	4.642	4.643 (0.943)		11038	10.0000	9(a)
11 1,3-Dichlorobenzene	146	4.850	4.851 (0.985)		11287	10.0000	10
* 12 1,4-Dichlorobenzene-d4	152	4.925	4.921 (1.000)		31759	40.0000	
13 1,4-Dichlorobenzene	146	4.946	4.942 (1.004)		11815	10.0000	10
117 2-Ethyl-1-hexanol	57	4.999	4.999 (1.015)		12467	10.0000	9(a)
15 Benzyl Alcohol	108	5.090	5.091 (1.034)		9509	10.0000	9(a)
16 1,2-Dichlorobenzene	146	5.144	5.139 (1.044)		11527	10.0000	10
17 2-Methylphenol	108	5.234	5.236 (1.063)		12536	10.0000	9(a)
18 2,2'-oxybis(1-Chloropropane)	45	5.272	5.268 (1.070)		20068	10.0000	10
99 Acetophenone	105	5.427	5.423 (1.102)		22307	10.0000	10

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
19 N-Nitroso-di-n-propylamine	70	5.427	5.428 (1.102)		10598	10.0000	10
20 4-Methylphenol	108	5.432	5.428 (1.103)		14926	10.0000	9(a)
21 Hexachloroethane	117	5.560	5.561 (1.129)		3460	10.0000	10
\$ 22 Nitrobenzene-d5	82	5.608	5.608 (0.872)		12241	10.0000	9(a)
23 Nitrobenzene	77	5.630	5.631 (0.875)		13302	10.0000	10
24 Isophorone	82	5.913	5.914 (0.919)		34244	10.0000	10
25 2-Nitrophenol	139	6.009	6.005 (0.934)		6060	10.0000	9(a)
26 2,4-Dimethylphenol	107	6.062	6.063 (0.943)		13695	10.0000	9(a)
27 bis(2-Chloroethoxy)methane	93	6.169	6.170 (0.959)		19851	10.0000	10
28 Benzoic Acid	105	6.132	6.154 (0.953)		14122	10.0000	12(a)
29 2,4-Dichlorophenol	162	6.276	6.277 (0.976)		13790	10.0000	10
30 1,2,4-Trichlorobenzene	180	6.372	6.373 (0.991)		12976	10.0000	10
* 31 Naphthalene-d8	136	6.431	6.427 (1.000)		189701	40.0000	
32 Naphthalene	128	6.452	6.453 (1.003)		49766	10.0000	10
115 alpha-Terpineol	59	6.468	6.469 (1.006)		10131	10.0000	10
33 4-Chloroaniline	127	6.516	6.517 (1.013)		25094	10.0000	10
34 Hexachlorobutadiene	225	6.596	6.598 (1.026)		5899	10.0000	10
102 Caprolactam	113	6.848	6.859 (1.065)		12652	10.0000	11
35 4-Chloro-3-Methylphenol	107	7.024	7.025 (1.092)		20466	10.0000	10
36 2-Methylnaphthalene	142	7.163	7.164 (1.114)		40306	10.0000	10
114 1-Methylnaphthalene	142	7.259	7.260 (1.129)		39431	10.0000	10
38 Hexachlorocyclopentadiene	237	7.328	7.324 (0.901)		5233	10.0000	9(Ta)
112 1,2,4,5-Tetrachlorobenzene	216	7.328	7.329 (0.901)		17621	10.0000	10
39 2,4,6-Trichlorophenol	196	7.440	7.441 (0.915)		14378	10.0000	10
40 2,4,5-Trichlorophenol	196	7.472	7.474 (0.919)		15155	10.0000	10(a)
\$ 41 2-Fluorobiphenyl	172	7.515	7.515 (0.924)		49387	10.0000	10
98 1,1'-Biphenyl	154	7.606	7.607 (0.936)		59438	10.0000	10
42 2-Chloronaphthalene	162	7.627	7.623 (0.938)		42919	10.0000	10
43 2-Nitroaniline	65	7.718	7.719 (0.949)		11912	10.0000	9(a)
44 Dimethylphthalate	163	7.884	7.885 (0.970)		67096	10.0000	10
45 2,6-Dinitrotoluene	165	7.937	7.938 (0.976)		13102	10.0000	10
46 Acenaphthylene	152	8.001	8.002 (0.984)		82986	10.0000	10
47 3-Nitroaniline	138	8.087	8.088 (0.995)		19927	10.0000	10(a)
* 48 Acenaphthene-d10	164	8.129	8.130 (1.000)		187019	40.0000	
49 Acenaphthene	153	8.161	8.157 (1.004)		51717	10.0000	10
50 2,4-Dinitrophenol	184	8.177	8.179 (1.006)		2211	10.0000	6(aQ)
51 4-Nitrophenol	109	8.231	8.237 (1.012)		10243	10.0000	12(aQ)
53 2,4-Dinitrotoluene	165	8.290	8.291 (1.020)		18773	10.0000	10
52 Dibenzofuran	168	8.311	8.312 (1.022)		77642	10.0000	10
110 2,3,4,6-Tetrachlorophenol	232	8.418	8.419 (1.035)		17967	10.0000	10
54 Diethylphthalate	149	8.498	8.499 (1.045)		72993	10.0000	11
56 4-Chlorophenyl-phenylether	204	8.605	8.600 (1.058)		30994	10.0000	10
55 Fluorene	166	8.610	8.606 (1.059)		71431	10.0000	11
57 4-Nitroaniline	138	8.615	8.622 (1.060)		26580	10.0000	11(a)
58 4,6-Dinitro-2-methylphenol	198	8.642	8.643 (0.919)		5803	10.0000	6(aQ)
59 N-Nitrosodiphenylamine	169	8.701	8.702 (0.925)		68532	10.0000	10
97 Azobenzene	77	8.738	8.739 (0.929)		68224	10.0000	10
\$ 60 2,4,6-Tribromophenol	330	8.818	8.818 (0.938)		8388	10.0000	10
61 4-Bromophenyl-phenylether	248	9.016	9.017 (0.959)		20359	10.0000	10
62 Hexachlorobenzene	284	9.085	9.081 (0.966)		22403	10.0000	10
100 Atrazine	200	9.144	9.145 (0.972)		23075	10.0000	10
63 Pentachlorophenol	266	9.246	9.247 (0.983)		16168	10.0000	10(a)
111 Pentachloronitrobenzene	237	9.256	9.257 (0.984)		8009	10.0000	10
* 64 Phenanthrene-d10	188	9.406	9.407 (1.000)		508530	40.0000	

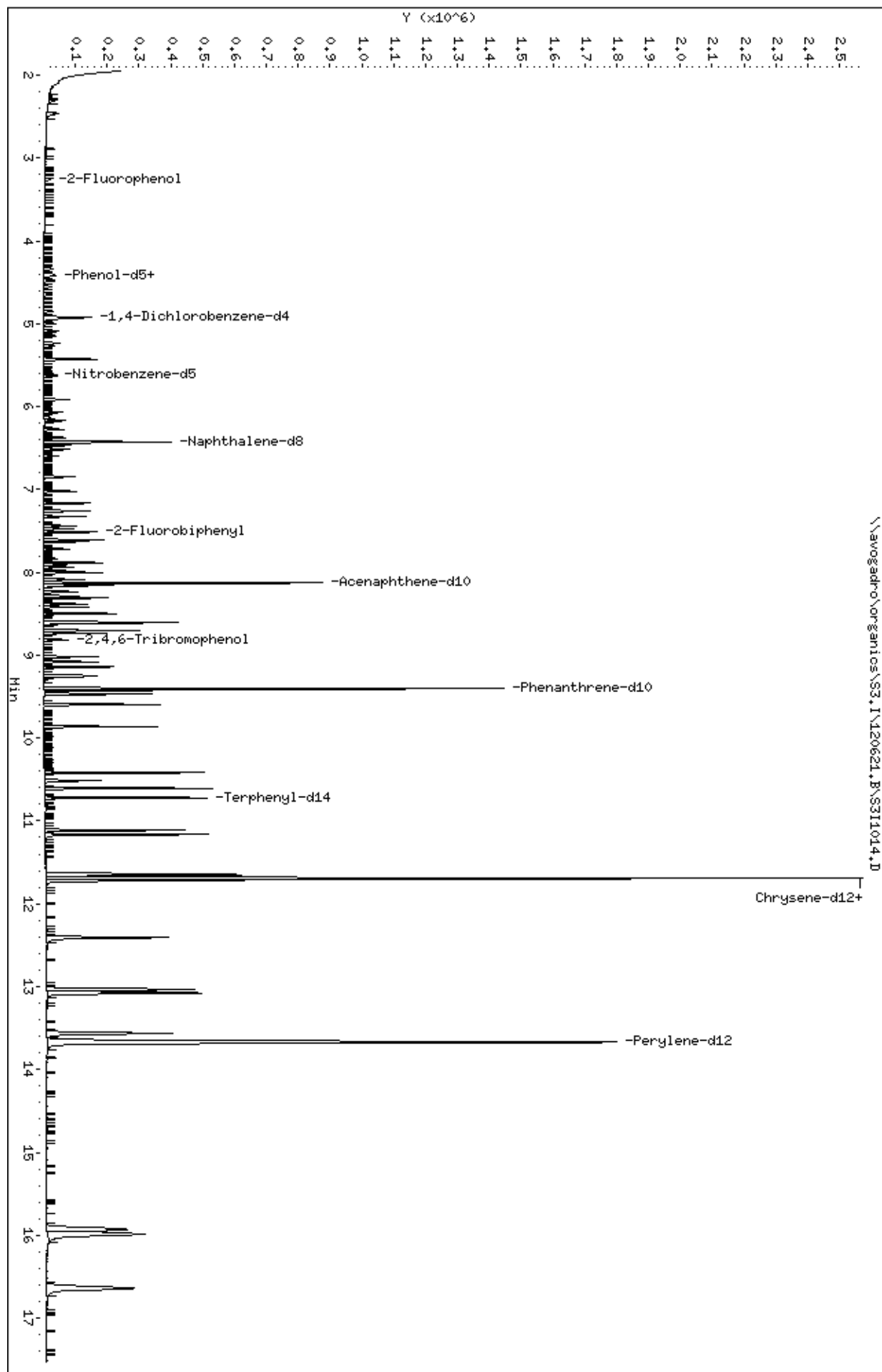
Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
65 Phenanthrene	178	9.422	9.428 (1.002)		127937	10.0000	11
66 Anthracene	178	9.465	9.466 (1.006)		126579	10.0000	10
67 Carbazole	167	9.598	9.599 (1.020)		153249	10.0000	11
68 Di-n-butylphthalate	149	9.865	9.866 (1.049)		154254	10.0000	11
69 Fluoranthene	202	10.415	10.422 (1.107)		182038	10.0000	11
70 Benzidine	184	10.511	10.513 (0.899)		75270	10.0000	10(a)
71 Pyrene	202	10.608	10.609 (0.907)		196015	10.0000	10
\$ 72 Terphenyl-d14	244	10.720	10.719 (0.916)		137867	10.0000	10
73 Butylbenzylphthalate	149	11.115	11.116 (0.950)		94492	10.0000	10
74 3,3'-Dichlorobenzidine	252	11.638	11.645 (0.995)		95407	10.0000	11
78 bis(2-Ethylhexyl)phthalate	149	11.649	11.656 (0.996)		143183	10.0000	10
75 Benzo(a)anthracene	228	11.681	11.682 (0.999)		256179	10.0000	10
* 76 Chrysene-d12	240	11.697	11.698 (1.000)		1016569	40.0000	
77 Chrysene	228	11.719	11.725 (1.002)		242462	10.0000	10
79 Di-n-octylphthalate	149	12.408	12.414 (0.908)		258205	10.0000	10
80 Benzo(b)fluoranthene	252	13.032	13.044 (0.954)		282732	10.0000	10
81 Benzo(k)fluoranthene	252	13.075	13.087 (0.957)		320411	10.0000	10
82 Benzo(a)pyrene	252	13.561	13.573 (0.992)		287628	10.0000	10
* 83 Perylene-d12	264	13.668	13.680 (1.000)		1189771	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	15.933	15.960 (1.166)		371692	10.0000	10
85 Dibenzo(a,h)anthracene	278	15.986	16.019 (1.170)		306136	10.0000	10
86 Benzo(g,h,i)perylene	276	16.638	16.676 (1.217)		332725	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\S3,I\120621,B\S3I1014.D
Date : 21-JUN-2012 18:53
Client ID: SSTID0103D
Sample Info: SSTID0103D,SSTID0103D
Volume Injected (uL): 1.0
Column phase: Rxi-5S11 MS

Instrument: S3.i
Operator: PK/DL SRC: PK/DL
Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120621.B\S3I1015.D
Lab Smp Id: SST0603D Client Smp ID: SST0603D
Inj Date : 21-JUN-2012 19:20
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SST0603D, SST0603D
Misc Info : 1,5
Comment :
Method : \\avogadro\organics\S3.I\120621.B\s3_8270C_N.m
Meth Date : 22-Jun-2012 14:36 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.D
Als bottle: 5 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

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 109 1,4-Dioxane-d8	96	2.079	2.078 (0.422)		26250	60.0000	60
108 1,4-Dioxane	58	2.095	2.095 (0.425)		21829	60.0000	65
1 N-Nitrosodimethylamine	74	2.255	2.255 (0.458)		84174	60.0000	62
2 Pyridine	79	2.298	2.303 (0.467)		132380	60.0000	63
\$ 3 2-Fluorophenol	112	3.254	3.253 (0.661)		137547	60.0000	67
101 Benzaldehyde	77	4.333	4.333 (0.880)		85281	60.0000	48
\$ 5 Phenol-d5	99	4.402	4.401 (0.894)		237101	60.0000	64
6 Phenol	94	4.423	4.418 (0.898)		238748	60.0000	64
7 Aniline	66	4.477	4.477 (0.909)		102180	60.0000	67
8 bis(2-Chloroethyl)Ether	63	4.557	4.557 (0.925)		109304	60.0000	63
10 2-Chlorophenol	128	4.642	4.643 (0.943)		164253	60.0000	66
11 1,3-Dichlorobenzene	146	4.851	4.851 (0.985)		137026	60.0000	61
* 12 1,4-Dichlorobenzene-d4	152	4.926	4.921 (1.000)		66494	40.0000	
13 1,4-Dichlorobenzene	146	4.942	4.942 (1.003)		141251	60.0000	60
117 2-Ethyl-1-hexanol	57	5.000	4.999 (1.015)		187285	60.0000	66
15 Benzyl Alcohol	108	5.091	5.091 (1.034)		137255	60.0000	63
16 1,2-Dichlorobenzene	146	5.139	5.139 (1.043)		142805	60.0000	60
17 2-Methylphenol	108	5.235	5.236 (1.063)		184133	60.0000	64
18 2,2'-oxybis(1-Chloropropane)	45	5.273	5.268 (1.070)		256059	60.0000	62
99 Acetophenone	105	5.428	5.423 (1.102)		280833	60.0000	60

Data File: \\avogadro\organics\S3.I\120621.B\S3I1015.D
Report Date: 22-Jun-2012 14:42

						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
19 N-Nitroso-di-n-propylamine	70	5.428	5.428	(1.102)	141558	60.0000	62
20 4-Methylphenol	108	5.433	5.428	(1.103)	207858	60.0000	63
21 Hexachloroethane	117	5.561	5.561	(1.129)	47072	60.0000	62
\$ 22 Nitrobenzene-d5	82	5.609	5.608	(0.872)	185187	60.0000	67
23 Nitrobenzene	77	5.631	5.631	(0.875)	192460	60.0000	66
24 Isophorone	82	5.914	5.914	(0.919)	438623	60.0000	60
25 2-Nitrophenol	139	6.010	6.005	(0.934)	96882	60.0000	70
26 2,4-Dimethylphenol	107	6.069	6.063	(0.944)	210915	60.0000	69
27 bis(2-Chloroethoxy)methane	93	6.170	6.170	(0.959)	246391	60.0000	60
28 Benzoic Acid	105	6.191	6.154	(0.963)	167923	60.0000	64
29 2,4-Dichlorophenol	162	6.277	6.277	(0.976)	182827	60.0000	63
30 1,2,4-Trichlorobenzene	180	6.373	6.373	(0.991)	160419	60.0000	59
* 31 Naphthalene-d8	136	6.432	6.427	(1.000)	402596	40.0000	
32 Naphthalene	128	6.453	6.453	(1.003)	593882	60.0000	59
115 alpha-Terpineol	59	6.469	6.469	(1.006)	137698	60.0000	63
33 4-Chloroaniline	127	6.517	6.517	(1.013)	314121	60.0000	60
34 Hexachlorobutadiene	225	6.597	6.598	(1.026)	77363	60.0000	61
102 Caprolactam	113	6.880	6.859	(1.070)	133514	60.0000	53
35 4-Chloro-3-Methylphenol	107	7.030	7.025	(1.093)	241842	60.0000	58
36 2-Methylnaphthalene	142	7.163	7.164	(1.114)	467673	60.0000	57
114 1-Methylnaphthalene	142	7.260	7.260	(1.129)	444586	60.0000	56
38 Hexachlorocyclopentadiene	237	7.329	7.324	(0.901)	84324	60.0000	78
112 1,2,4,5-Tetrachlorobenzene	216	7.329	7.329	(0.901)	199441	60.0000	60
39 2,4,6-Trichlorophenol	196	7.441	7.441	(0.915)	155300	60.0000	61
40 2,4,5-Trichlorophenol	196	7.479	7.474	(0.919)	174066	60.0000	59
\$ 41 2-Fluorobiphenyl	172	7.516	7.515	(0.924)	535190	60.0000	60
98 1,1'-Biphenyl	154	7.612	7.607	(0.936)	637231	60.0000	60
42 2-Chloronaphthalene	162	7.628	7.623	(0.938)	454229	60.0000	59
43 2-Nitroaniline	65	7.724	7.719	(0.949)	158688	60.0000	65
44 Dimethylphthalate	163	7.890	7.885	(0.970)	671626	60.0000	57
45 2,6-Dinitrotoluene	165	7.943	7.938	(0.976)	162914	60.0000	68
46 Acenaphthylene	152	8.007	8.002	(0.984)	872494	60.0000	59
47 3-Nitroaniline	138	8.093	8.088	(0.995)	212051	60.0000	60
* 48 Acenaphthene-d10	164	8.136	8.130	(1.000)	347548	40.0000	
49 Acenaphthene	153	8.162	8.157	(1.003)	529367	60.0000	58
50 2,4-Dinitrophenol	184	8.178	8.179	(1.005)	56016	60.0000	79(Q)
51 4-Nitrophenol	109	8.242	8.237	(1.013)	89670	60.0000	56
53 2,4-Dinitrotoluene	165	8.296	8.291	(1.020)	234886	60.0000	67
52 Dibenzofuran	168	8.312	8.312	(1.022)	775082	60.0000	56
110 2,3,4,6-Tetrachlorophenol	232	8.424	8.419	(1.035)	174723	60.0000	54
54 Diethylphthalate	149	8.504	8.499	(1.045)	696991	60.0000	56
56 4-Chlorophenyl-phenylether	204	8.606	8.600	(1.058)	312386	60.0000	57
55 Fluorene	166	8.611	8.606	(1.058)	685978	60.0000	56
57 4-Nitroaniline	138	8.627	8.622	(1.060)	241378	60.0000	56
58 4,6-Dinitro-2-methylphenol	198	8.648	8.643	(0.919)	113569	60.0000	79
59 N-Nitrosodiphenylamine	169	8.707	8.702	(0.926)	639370	60.0000	61
97 Azobenzene	77	8.739	8.739	(0.929)	655369	60.0000	62
\$ 60 2,4,6-Tribromophenol	330	8.819	8.818	(0.938)	93146	60.0000	67
61 4-Bromophenyl-phenylether	248	9.022	9.017	(0.959)	200438	60.0000	62
62 Hexachlorobenzene	284	9.086	9.081	(0.966)	208070	60.0000	59
100 Atrazine	200	9.150	9.145	(0.973)	218246	60.0000	62
63 Pentachlorophenol	266	9.246	9.247	(0.983)	162620	60.0000	63
111 Pentachloronitrobenzene	237	9.263	9.257	(0.985)	90892	60.0000	70
* 64 Phenanthrene-d10	188	9.407	9.407	(1.000)	804663	40.0000	

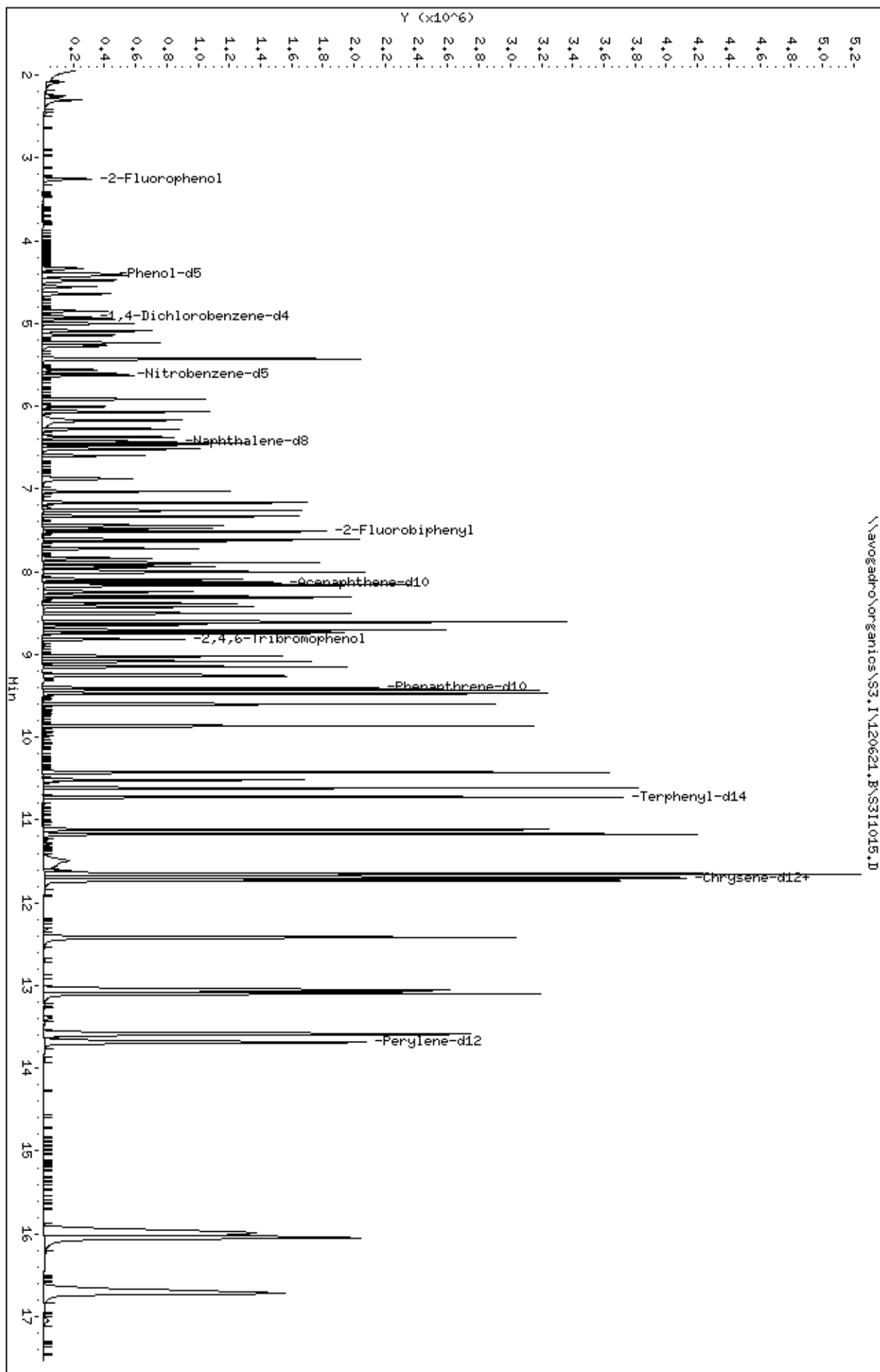
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====		=====	=====
65 Phenanthrene	178	9.428	9.428	(1.002)	1107699		60.0000	58
66 Anthracene	178	9.471	9.466	(1.007)	1147491		60.0000	60
67 Carbazole	167	9.599	9.599	(1.020)	1145286		60.0000	53
68 Di-n-butylphthalate	149	9.866	9.866	(1.049)	1341311		60.0000	58
69 Fluoranthene	202	10.422	10.422	(1.108)	1415785		60.0000	55
70 Benzidine	184	10.518	10.513	(0.899)	610775		60.0000	68
71 Pyrene	202	10.614	10.609	(0.907)	1469945		60.0000	62
\$ 72 Terphenyl-d14	244	10.721	10.719	(0.916)	1041180		60.0000	62
73 Butylbenzylphthalate	149	11.116	11.116	(0.950)	758491		60.0000	64
74 3,3'-Dichlorobenzidine	252	11.650	11.645	(0.995)	617092		60.0000	57
78 bis(2-Ethylhexyl)phthalate	149	11.655	11.656	(0.996)	1075600		60.0000	62
75 Benzo(a)anthracene	228	11.687	11.682	(0.999)	1719477		60.0000	58
* 76 Chrysene-d12	240	11.703	11.698	(1.000)	1237864		40.0000	
77 Chrysene	228	11.735	11.725	(1.003)	1631910		60.0000	58
79 Di-n-octylphthalate	149	12.419	12.414	(0.908)	2002687		60.0000	65
80 Benzo(b)fluoranthene	252	13.055	13.044	(0.954)	2000394		60.0000	62
81 Benzo(k)fluoranthene	252	13.097	13.087	(0.957)	2054679		60.0000	58
82 Benzo(a)pyrene	252	13.589	13.573	(0.993)	1983177		60.0000	60
* 83 Perylene-d12	264	13.685	13.680	(1.000)	1369995		40.0000	
84 Indeno(1,2,3-cd)pyrene	276	15.987	15.960	(1.168)	2566019		60.0000	60
85 Dibenzo(a,h)anthracene	278	16.051	16.019	(1.173)	2102863		60.0000	60
86 Benzo(g,h,i)perylene	276	16.724	16.676	(1.222)	2197091		60.0000	59

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\S3,I\120621,B\S3I1015.D
 Date : 21-JUN-2012 19:20
 Client ID: SSTID0603D
 Sample Info: SSTID0603D,SSTID0603D
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



Data File: \\avogadro\organics\S3.I\120621.B\S3I1016.D
Report Date: 22-Jun-2012 14:42

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120621.B\S3I1016.D
Lab Smp Id: SST0403D Client Smp ID: SST0403D
Inj Date : 21-JUN-2012 19:46
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : SST0403D, SST0403D
Misc Info : 1,4
Comment :
Method : \\avogadro\organics\S3.I\120621.B\s3_8270C_N.m
Meth Date : 22-Jun-2012 14:36 pkaczorows Quant Type: ISTD
Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.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: $\text{Amt} * \text{DF} * \text{Uf} * (\text{Vt}/\text{Vi}) * (1/\text{Vo}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

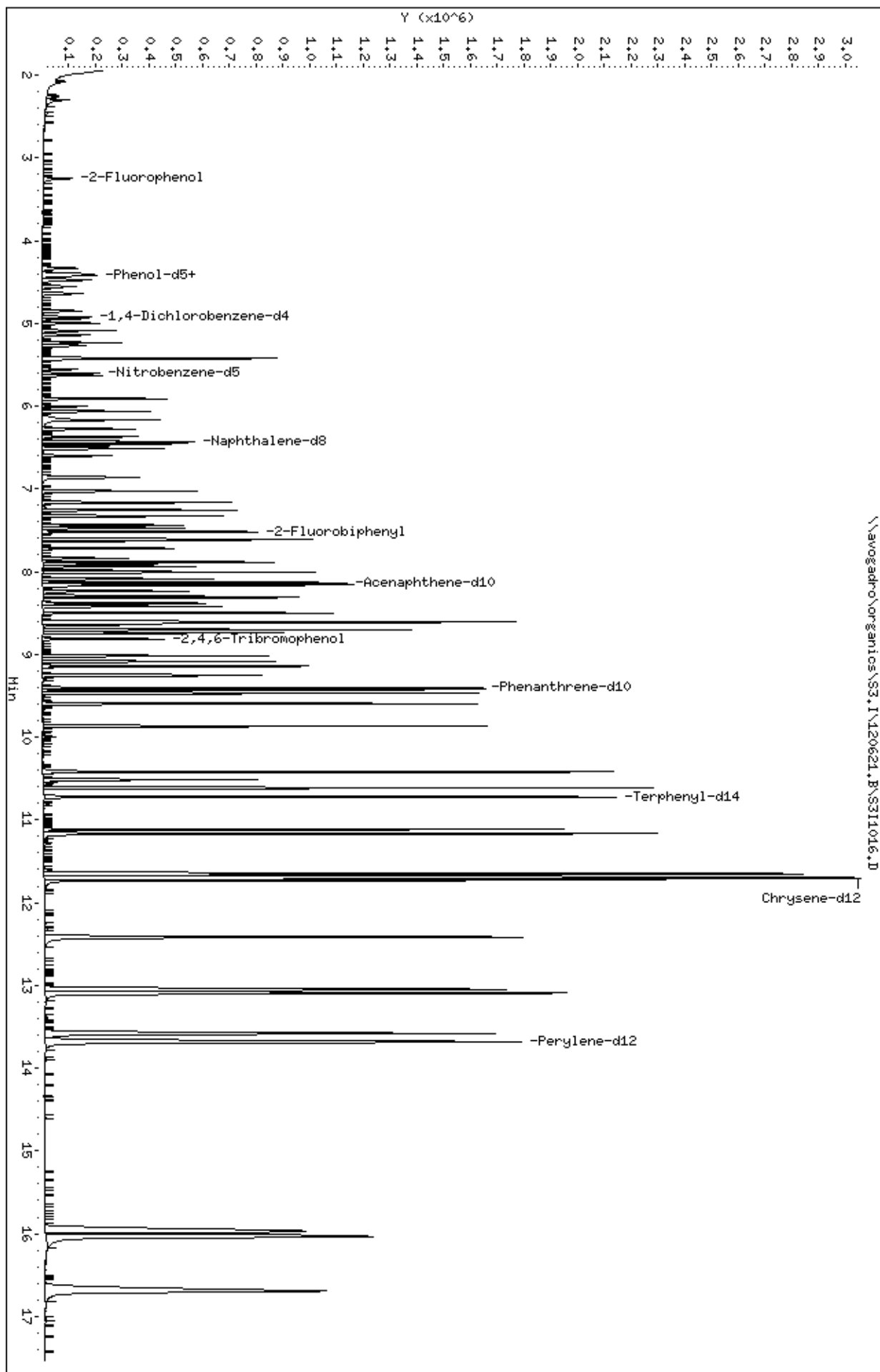
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
\$ 109 1,4-Dioxane-d8	96	2.076	2.078 (0.422)		10570	40.0000	42
108 1,4-Dioxane	58	2.098	2.095 (0.426)		8381	40.0000	44
1 N-Nitrosodimethylamine	74	2.252	2.255 (0.458)		30585	40.0000	39
2 Pyridine	79	2.301	2.303 (0.467)		50957	40.0000	42
\$ 3 2-Fluorophenol	112	3.251	3.253 (0.660)		48344	40.0000	41
101 Benzaldehyde	77	4.335	4.333 (0.881)		41523	40.0000	41
\$ 5 Phenol-d5	99	4.405	4.401 (0.895)		91511	40.0000	43
6 Phenol	94	4.421	4.418 (0.898)		91439	40.0000	43
7 Aniline	66	4.474	4.477 (0.909)		38062	40.0000	43
8 bis(2-Chloroethyl)Ether	63	4.554	4.557 (0.925)		40485	40.0000	40
10 2-Chlorophenol	128	4.640	4.643 (0.943)		59287	40.0000	41
11 1,3-Dichlorobenzene	146	4.854	4.851 (0.986)		50613	40.0000	39
* 12 1,4-Dichlorobenzene-d4	152	4.923	4.921 (1.000)		38195	40.0000	
13 1,4-Dichlorobenzene	146	4.944	4.942 (1.004)		53744	40.0000	40
117 2-Ethyl-1-hexanol	57	4.998	4.999 (1.015)		68942	40.0000	42
15 Benzyl Alcohol	108	5.089	5.091 (1.034)		55471	40.0000	45
16 1,2-Dichlorobenzene	146	5.142	5.139 (1.044)		55656	40.0000	41
17 2-Methylphenol	108	5.233	5.236 (1.063)		70109	40.0000	43
18 2,2'-oxybis(1-Chloropropane)	45	5.270	5.268 (1.071)		99365	40.0000	42
99 Acetophenone	105	5.425	5.423 (1.102)		113613	40.0000	42

						AMOUNTS		
		QUANT SIG					CAL -AMT	ON -COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)	
=====	=====	=====	=====	=====	=====	=====	=====	
19 N-Nitroso-di-n-propylamine	70	5.425	5.428	(1.102)	58609	40.0000	44	
20 4-Methylphenol	108	5.430	5.428	(1.103)	83596	40.0000	44	
21 Hexachloroethane	117	5.559	5.561	(1.129)	17497	40.0000	40	
\$ 22 Nitrobenzene-d5	82	5.607	5.608	(0.872)	73355	40.0000	42	
23 Nitrobenzene	77	5.628	5.631	(0.875)	75773	40.0000	41	
24 Isophorone	82	5.911	5.914	(0.919)	189569	40.0000	41	
25 2-Nitrophenol	139	6.007	6.005	(0.934)	38208	40.0000	44	
26 2,4-Dimethylphenol	107	6.066	6.063	(0.944)	80009	40.0000	41	
27 bis(2-Chloroethoxy)methane	93	6.167	6.170	(0.959)	104029	40.0000	40	
28 Benzoic Acid	105	6.167	6.154	(0.959)	82471	40.0000	50	
29 2,4-Dichlorophenol	162	6.280	6.277	(0.977)	75149	40.0000	41	
30 1,2,4-Trichlorobenzene	180	6.370	6.373	(0.991)	66863	40.0000	39	
* 31 Naphthalene-d8	136	6.429	6.427	(1.000)	253481	40.0000		
32 Naphthalene	128	6.451	6.453	(1.003)	251628	40.0000	40	
115 alpha-Terpineol	59	6.467	6.469	(1.006)	56329	40.0000	41	
33 4-Chloroaniline	127	6.515	6.517	(1.013)	136263	40.0000	42	
34 Hexachlorobutadiene	225	6.600	6.598	(1.027)	30268	40.0000	38	
102 Caprolactam	113	6.862	6.859	(1.067)	65375	40.0000	41	
35 4-Chloro-3-Methylphenol	107	7.027	7.025	(1.093)	109697	40.0000	42	
36 2-Methylnaphthalene	142	7.166	7.164	(1.115)	209323	40.0000	41	
114 1-Methylnaphthalene	142	7.257	7.260	(1.129)	201870	40.0000	40	
38 Hexachlorocyclopentadiene	237	7.326	7.324	(0.901)	29961	40.0000	40	
112 1,2,4,5-Tetrachlorobenzene	216	7.332	7.329	(0.901)	89026	40.0000	38	
39 2,4,6-Trichlorophenol	196	7.439	7.441	(0.915)	71026	40.0000	40	
40 2,4,5-Trichlorophenol	196	7.471	7.474	(0.919)	84670	40.0000	41	
\$ 41 2-Fluorobiphenyl	172	7.519	7.515	(0.924)	245536	40.0000	39	
98 1,1'-Biphenyl	154	7.610	7.607	(0.936)	292738	40.0000	39	
42 2-Chloronaphthalene	162	7.626	7.623	(0.938)	211199	40.0000	39	
43 2-Nitroaniline	65	7.722	7.719	(0.949)	74188	40.0000	43	
44 Dimethylphthalate	163	7.887	7.885	(0.970)	333412	40.0000	40	
45 2,6-Dinitrotoluene	165	7.941	7.938	(0.976)	76107	40.0000	45	
46 Acenaphthylene	152	8.005	8.002	(0.984)	413194	40.0000	40	
47 3-Nitroaniline	138	8.090	8.088	(0.995)	104663	40.0000	42	
* 48 Acenaphthene-d10	164	8.133	8.130	(1.000)	243785	40.0000		
49 Acenaphthene	153	8.160	8.157	(1.003)	254124	40.0000	40	
50 2,4-Dinitrophenol	184	8.176	8.179	(1.005)	25051	40.0000	51	
51 4-Nitrophenol	109	8.234	8.237	(1.012)	47693	40.0000	42	
53 2,4-Dinitrotoluene	165	8.293	8.291	(1.020)	115084	40.0000	47	
52 Dibenzofuran	168	8.309	8.312	(1.022)	376187	40.0000	39	
110 2,3,4,6-Tetrachlorophenol	232	8.421	8.419	(1.035)	87605	40.0000	38	
54 Diethylphthalate	149	8.502	8.499	(1.045)	348165	40.0000	40	
56 4-Chlorophenyl-phenylether	204	8.603	8.600	(1.058)	153302	40.0000	40	
55 Fluorene	166	8.608	8.606	(1.058)	342192	40.0000	40	
57 4-Nitroaniline	138	8.624	8.622	(1.060)	126684	40.0000	42	
58 4,6-Dinitro-2-methylphenol	198	8.646	8.643	(0.919)	53990	40.0000	48	
59 N-Nitrosodiphenylamine	169	8.704	8.702	(0.925)	323214	40.0000	40	
97 Azobenzene	77	8.737	8.739	(0.928)	320756	40.0000	39	
\$ 60 2,4,6-Tribromophenol	330	8.817	8.818	(0.937)	45097	40.0000	42	
61 4-Bromophenyl-phenylether	248	9.020	9.017	(0.959)	99183	40.0000	39	
62 Hexachlorobenzene	284	9.084	9.081	(0.965)	105672	40.0000	39	
100 Atrazine	200	9.148	9.145	(0.972)	111946	40.0000	40	
63 Pentachlorophenol	266	9.249	9.247	(0.983)	80856	40.0000	40	
111 Pentachloronitrobenzene	237	9.260	9.257	(0.984)	46012	40.0000	45	
* 64 Phenanthrene-d10	188	9.409	9.407	(1.000)	626900	40.0000		

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	=====	=====	=====	=====		=====	=====
65 Phenanthrene	178	9.426	9.428 (1.002)		580769		40.0000	39
66 Anthracene	178	9.468	9.466 (1.006)		598708		40.0000	40
67 Carbazole	167	9.596	9.599 (1.020)		644025		40.0000	39
68 Di-n-butylphthalate	149	9.863	9.866 (1.048)		722840		40.0000	40
69 Fluoranthene	202	10.419	10.422 (1.107)		794160		40.0000	39
70 Benzidine	184	10.515	10.513 (0.899)		294565		40.0000	38
71 Pyrene	202	10.611	10.609 (0.907)		829599		40.0000	40
\$ 72 Terphenyl-d14	244	10.723	10.719 (0.916)		590757		40.0000	40
73 Butylbenzylphthalate	149	11.119	11.116 (0.950)		425750		40.0000	42
74 3,3'-Dichlorobenzidine	252	11.647	11.645 (0.995)		385967		40.0000	41
78 bis(2-Ethylhexyl)phthalate	149	11.653	11.656 (0.996)		616210		40.0000	41
75 Benzo(a)anthracene	228	11.685	11.682 (0.999)		1020819		40.0000	40
* 76 Chrysene-d12	240	11.701	11.698 (1.000)		1071105		40.0000	
77 Chrysene	228	11.728	11.725 (1.002)		947024		40.0000	39
79 Di-n-octylphthalate	149	12.417	12.414 (0.907)		1139062		40.0000	41
80 Benzo(b)fluoranthene	252	13.052	13.044 (0.954)		1158468		40.0000	40
81 Benzo(k)fluoranthene	252	13.089	13.087 (0.957)		1271939		40.0000	40
82 Benzo(a)pyrene	252	13.581	13.573 (0.993)		1187304		40.0000	40
* 83 Perylene-d12	264	13.682	13.680 (1.000)		1230485		40.0000	
84 Indeno(1,2,3-cd)pyrene	276	15.968	15.960 (1.167)		1567098		40.0000	41
85 Dibenzo(a,h)anthracene	278	16.032	16.019 (1.172)		1280889		40.0000	41
86 Benzo(g,h,i)perylene	276	16.695	16.676 (1.220)		1359026		40.0000	41

Data File: \\avogadro\organics\S3,I\120621,B\S3I1016.D
 Date : 21-JUN-2012 19:46
 Client ID: SSTID0403D
 Sample Info: SSTID0403D,SSTID0403D
 Volume Injected (uL): 1.0
 Column phase: Rxi-5Si1 MS

Instrument: S3.i
 Operator: PK/DL SRC: PK/DL
 Column diameter: 0.25



7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
Instrument ID: <u>S3</u>	Calibration Date: <u>06/25/2012</u> Time: <u>12:02</u>
Lab File ID: <u>S3I1061A.D</u>	Init. Calib. Date(s): <u>06/21/2012</u> <u>06/21/2012</u>
EPA Sample No.(SSTD020##) <u>SSTD0253G</u>	Init. Calib. Time(s): <u>17:33</u> <u>19:46</u>
GC Column: <u>Rxi-5sil MS</u> ID: <u>0.25</u> (mm)	

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenol	2.246	2.315	0.010	3.1	20.0
Bis(2-chloroethyl)ether	1.047	0.924	0.010	-11.7	20.0
2-Chlorophenol	1.499	1.384	0.010	-7.7	20.0
1,3-Dichlorobenzene	1.359	1.298	0.010	-4.5	20.0
1,4-Dichlorobenzene	1.414	1.371	0.010	-3.1	20.0
1,2-Dichlorobenzene	1.422	1.326	0.010	-6.8	20.0
2-Methylphenol	1.716	1.656	0.010	-3.5	20.0
2,2'-oxybis(1-Chloropropane)	2.503	2.338	0.010	-6.6	20.0
4-Methylphenol	1.986	1.986	0.010	0.0	20.0
N-Nitroso-di-n-propylamine	1.382	1.343	0.050	-2.8	20.0
Hexachloroethane	0.456	0.445	0.010	-2.4	20.0
Nitrobenzene	0.288	0.291	0.010	0.9	20.0
Isophorone	0.722	0.692	0.010	-4.1	20.0
2-Nitrophenol	0.137	0.164	0.010	20.2	20.0
2,4-Dimethylphenol	0.305	0.245	0.010	-19.6	20.0
2,4-Dichlorophenol	0.288	0.294	0.010	2.3	20.0
1,2,4-Trichlorobenzene	0.269	0.257	0.010	-4.5	20.0
Naphthalene	1.001	0.983	0.010	-1.8	20.0
4-Chloroaniline	0.517	0.504	0.010	-2.4	20.0
Bis(2-chloroethoxy)methane	0.410	0.386	0.010	-5.7	20.0
Hexachlorobutadiene	0.126	0.122	0.010	-3.5	20.0
4-Chloro-3-methylphenol	0.413	0.443	0.010	7.2	20.0
2-Methylnaphthalene	0.812	0.804	0.010	-1.1	20.0
Hexachlorocyclopentadiene	0.124	0.094	0.050	-24.2	20.0
2,4,6-Trichlorophenol	0.291	0.309	0.010	6.0	20.0
2,4,5-Trichlorophenol	0.331	0.335	0.010	1.2	20.0
2-Chloronaphthalene	0.882	0.827	0.010	-6.3	20.0
2-Nitroaniline	0.281	0.304	0.010	8.2	20.0
Dimethylphthalate	1.362	1.334	0.010	-2.1	20.0
Acenaphthylene	1.709	1.620	0.010	-5.2	20.0
2,6-Dinitrotoluene	0.275	0.311	0.010	13.1	20.0
3-Nitroaniline	0.407	0.409	0.010	0.5	20.0
Acenaphthene	1.051	1.013	0.010	-3.6	20.0
2,4-Dinitrophenol	0.081	0.064	0.050	-20.8	20.0
4-Nitrophenol	0.185	0.210	0.050	13.4	20.0
Dibenzofuran	1.583	1.523	0.010	-3.8	20.0
2,4-Dinitrotoluene	0.401	0.461	0.010	15.0	20.0
Diethylphthalate	1.437	1.392	0.010	-3.1	20.0
4-Chlorophenyl-phenylether	0.627	0.615	0.010	-1.9	20.0
Fluorene	1.412	1.377	0.010	-2.5	20.0
4-Nitroaniline	0.495	0.491	0.010	-0.8	20.0
4,6-Dinitro-2-methylphenol	0.072	0.067	0.010	-6.2	20.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
Instrument ID: <u>S3</u>	Calibration Date: <u>06/25/2012</u> Time: <u>12:02</u>
Lab File ID: <u>S3I1061A.D</u>	Init. Calib. Date(s): <u>06/21/2012</u> <u>06/21/2012</u>
EPA Sample No.(SSTD020##) <u>SSTD0253G</u>	Init. Calib. Time(s): <u>17:33</u> <u>19:46</u>
GC Column: <u>Rxi-5sil MS</u> ID: <u>0.25</u> (mm)	

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX	%D
N-Nitrosodiphenylamine	0.521	0.514	0.010	-1.4	20.0	
4-Bromophenyl-phenylether	0.161	0.155	0.010	-3.8	20.0	
Hexachlorobenzene	0.174	0.167	0.010	-4.3	20.0	
Pentachlorophenol	0.127	0.173	0.010	35.6	20.0	
Phenanthrene	0.946	0.935	0.010	-1.1	20.0	
Anthracene	0.957	0.936	0.010	-2.2	20.0	
Carbazole	1.064	1.051	0.010	-1.2	20.0	
Di-n-butylphthalate	1.144	1.177	0.010	2.9	20.0	
Fluoranthene	1.286	1.302	0.010	1.3	20.0	
Pyrene	0.772	0.780	0.010	1.0	20.0	
Butylbenzylphthalate	0.381	0.394	0.010	3.4	20.0	
3,3'-Dichlorobenzidine	0.351	0.386	0.010	10.2	20.0	
Benzo(a)anthracene	0.957	0.968	0.010	1.2	20.0	
Chrysene	0.900	0.912	0.010	1.3	20.0	
Bis(2-ethylhexyl)phthalate	0.561	0.578	0.010	3.0	20.0	
Di-n-octylphthalate	0.894	0.941	0.010	5.3	20.0	
Benzo(b)fluoranthene	0.948	0.996	0.010	5.0	20.0	
Benzo(k)fluoranthene	1.033	0.996	0.010	-3.6	20.0	
Benzo(a)pyrene	0.959	0.969	0.010	1.0	20.0	
Indeno(1,2,3-cd)pyrene	1.242	1.271	0.010	2.3	20.0	
Dibenzo(a,h)anthracene	1.016	1.052	0.010	3.6	20.0	
Benzo(g,h,i)perylene	1.086	1.108	0.010	2.1	20.0	

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
Instrument ID: <u>S3</u>	Calibration Date: <u>06/25/2012</u> Time: <u>12:02</u>
Lab File ID: <u>S3I1061A.D</u>	Init. Calib. Date(s): <u>06/21/2012</u> <u>06/21/2012</u>
EPA Sample No.(SSTD020##) <u>SSTD0253G</u>	Init. Calib. Time(s): <u>17:33</u> <u>19:46</u>
GC Column: <u>Rxi-5sil MS</u> ID: <u>0.25</u> (mm)	

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX	%D
Nitrobenzene-d5	0.275	0.286	0.010	4.0	20.0	
2-Fluorobiphenyl	1.031	0.997	0.010	-3.3	20.0	
Terphenyl-d14	0.545	0.557	0.010	2.2	20.0	
Phenol-d5	2.214	2.077	0.010	-6.2	20.0	
2-Fluorophenol	1.240	1.116	0.010	-9.9	20.0	
2,4,6-Tribromophenol	0.069	0.081	0.010	16.9	20.0	

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120625.B\S3I1061A.D
 Lab Smp Id: SST0253G Client Smp ID: SST0253G
 Inj Date : 25-JUN-2012 12:02
 Operator : PK SRC: PK Inst ID: S3.i
 Smp Info : SST0253G, SST0253G
 Misc Info : 2,3
 Comment :
 Method : \\avogadro\organics\S3.I\120625.B\s3_8270C_N.m
 Meth Date : 25-Jun-2012 14:20 S3.i Quant Type: ISTD
 Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.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

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	
\$ 109 1,4-Dioxane-d8	96	2.057	2.057	(0.421)	4997	25.0000	26	
108 1,4-Dioxane	58	2.074	2.074	(0.424)	4089	25.0000	28	
1 N-Nitrosodimethylamine	74	2.234	2.234	(0.457)	13374	25.0000	23	
2 Pyridine	79	2.282	2.282	(0.467)	21487	25.0000	24	
\$ 3 2-Fluorophenol	112	3.243	3.243	(0.663)	19998	25.0000	22	
101 Benzaldehyde	77	4.301	4.301	(0.880)	20569	25.0000	27	
\$ 5 Phenol-d5	99	4.408	4.408	(0.902)	37207	25.0000	23	
6 Phenol	94	4.429	4.429	(0.906)	41477	25.0000	26	
7 Aniline	66	4.445	4.445	(0.909)	18488	25.0000	28	
8 bis(2-Chloroethyl)Ether	63	4.525	4.525	(0.926)	16560	25.0000	22	
10 2-Chlorophenol	128	4.621	4.621	(0.945)	24796	25.0000	23	
11 1,3-Dichlorobenzene	146	4.819	4.819	(0.986)	23250	25.0000	24	
* 12 1,4-Dichlorobenzene-d4	152	4.888	4.888	(1.000)	28662	40.0000		
13 1,4-Dichlorobenzene	146	4.910	4.910	(1.004)	24557	25.0000	24	
117 2-Ethyl-1-hexanol	57	4.968	4.968	(1.016)	36104	25.0000	30	
15 Benzyl Alcohol	108	5.065	5.065	(1.036)	23143	25.0000	25	
16 1,2-Dichlorobenzene	146	5.107	5.107	(1.045)	23746	25.0000	23	
17 2-Methylphenol	108	5.225	5.225	(1.069)	29659	25.0000	24	
18 2,2'-oxybis(1-Chloropropane)	45	5.241	5.241	(1.072)	41874	25.0000	23	
99 Acetophenone	105	5.390	5.390	(1.103)	49671	25.0000	25	

Data File: \\avogadro\organics\S3.I\120625.B\S3I1061A.D
Report Date: 25-Jun-2012 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	5.396	5.396	(1.104)	24065	25.0000	24
	20 4-Methylphenol	108	5.428	5.428	(1.110)	35583	25.0000	25
	21 Hexachloroethane	117	5.524	5.524	(1.130)	7972	25.0000	24
\$	22 Nitrobenzene-d5	82	5.577	5.577	(0.871)	31957	25.0000	26
	23 Nitrobenzene	77	5.599	5.599	(0.875)	32536	25.0000	25
	24 Isophorone	82	5.882	5.882	(0.919)	77371	25.0000	24
	25 2-Nitrophenol	139	5.978	5.978	(0.934)	18389	25.0000	30
	26 2,4-Dimethylphenol	107	6.053	6.053	(0.946)	27396	25.0000	20
	27 bis(2-Chloroethoxy)methane	93	6.143	6.143	(0.960)	43197	25.0000	24
	28 Benzoic Acid	105	6.149	6.149	(0.961)	40217	25.0000	35
	29 2,4-Dichlorophenol	162	6.266	6.266	(0.979)	32913	25.0000	26
	30 1,2,4-Trichlorobenzene	180	6.346	6.346	(0.992)	28754	25.0000	24
*	31 Naphthalene-d8	136	6.400	6.400	(1.000)	178876	40.0000	
	32 Naphthalene	128	6.421	6.421	(1.003)	109914	25.0000	24
	115 alpha-Terpineol	59	6.442	6.442	(1.007)	23432	25.0000	24
	33 4-Chloroaniline	127	6.496	6.496	(1.015)	56369	25.0000	24
	34 Hexachlorobutadiene	225	6.571	6.571	(1.027)	13627	25.0000	24
	102 Caprolactam	113	6.832	6.832	(1.068)	33017	25.0000	30
	35 4-Chloro-3-Methylphenol	107	7.025	7.025	(1.098)	49531	25.0000	27
	36 2-Methylnaphthalene	142	7.137	7.137	(1.115)	89877	25.0000	25
	114 1-Methylnaphthalene	142	7.233	7.233	(1.130)	87058	25.0000	24
	38 Hexachlorocyclopentadiene	237	7.302	7.302	(0.901)	10315	25.0000	19
	112 1,2,4,5-Tetrachlorobenzene	216	7.302	7.302	(0.901)	38392	25.0000	23
	39 2,4,6-Trichlorophenol	196	7.420	7.420	(0.915)	33746	25.0000	26
	40 2,4,5-Trichlorophenol	196	7.463	7.463	(0.920)	36607	25.0000	25
\$	41 2-Fluorobiphenyl	172	7.495	7.495	(0.924)	109057	25.0000	24
	98 1,1'-Biphenyl	154	7.585	7.585	(0.935)	128758	25.0000	24
	42 2-Chloronaphthalene	162	7.602	7.602	(0.937)	90445	25.0000	23
	43 2-Nitroaniline	65	7.703	7.703	(0.950)	33252	25.0000	27
	44 Dimethylphthalate	163	7.863	7.863	(0.970)	145870	25.0000	24
	45 2,6-Dinitrotoluene	165	7.917	7.917	(0.976)	34046	25.0000	28
	46 Acenaphthylene	152	7.981	7.981	(0.984)	177141	25.0000	24
	47 3-Nitroaniline	138	8.072	8.072	(0.995)	44682	25.0000	25
*	48 Acenaphthene-d10	164	8.109	8.109	(1.000)	174992	40.0000	
	49 Acenaphthene	153	8.136	8.136	(1.003)	110801	25.0000	24
	50 2,4-Dinitrophenol	184	8.157	8.157	(1.006)	7034	25.0000	20(Q)
	51 4-Nitrophenol	109	8.248	8.248	(1.017)	22998	25.0000	28
	53 2,4-Dinitrotoluene	165	8.269	8.269	(1.020)	50446	25.0000	29
	52 Dibenzofuran	168	8.285	8.285	(1.022)	166581	25.0000	24
	110 2,3,4,6-Tetrachlorophenol	232	8.403	8.403	(1.036)	47022	25.0000	29
	54 Diethylphthalate	149	8.477	8.477	(1.045)	152273	25.0000	24
	56 4-Chlorophenyl-phenylether	204	8.579	8.579	(1.058)	67264	25.0000	24
	55 Fluorene	166	8.584	8.584	(1.059)	150586	25.0000	24
	57 4-Nitroaniline	138	8.606	8.606	(1.061)	53671	25.0000	24
	58 4,6-Dinitro-2-methylphenol	198	8.622	8.622	(0.919)	18517	25.0000	23(Q)
	59 N-Nitrosodiphenylamine	169	8.680	8.680	(0.925)	141309	25.0000	25
	97 Azobenzene	77	8.712	8.712	(0.928)	136161	25.0000	24
\$	60 2,4,6-Tribromophenol	330	8.798	8.798	(0.937)	22262	25.0000	29
	61 4-Bromophenyl-phenylether	248	8.996	8.996	(0.958)	42665	25.0000	24
	62 Hexachlorobenzene	284	9.060	9.060	(0.965)	45917	25.0000	24
	100 Atrazine	200	9.124	9.124	(0.972)	49709	25.0000	26
	63 Pentachlorophenol	266	9.231	9.231	(0.983)	47552	25.0000	34
	111 Pentachloronitrobenzene	237	9.236	9.236	(0.984)	20050	25.0000	28
*	64 Phenanthrene-d10	188	9.385	9.385	(1.000)	440282	40.0000	

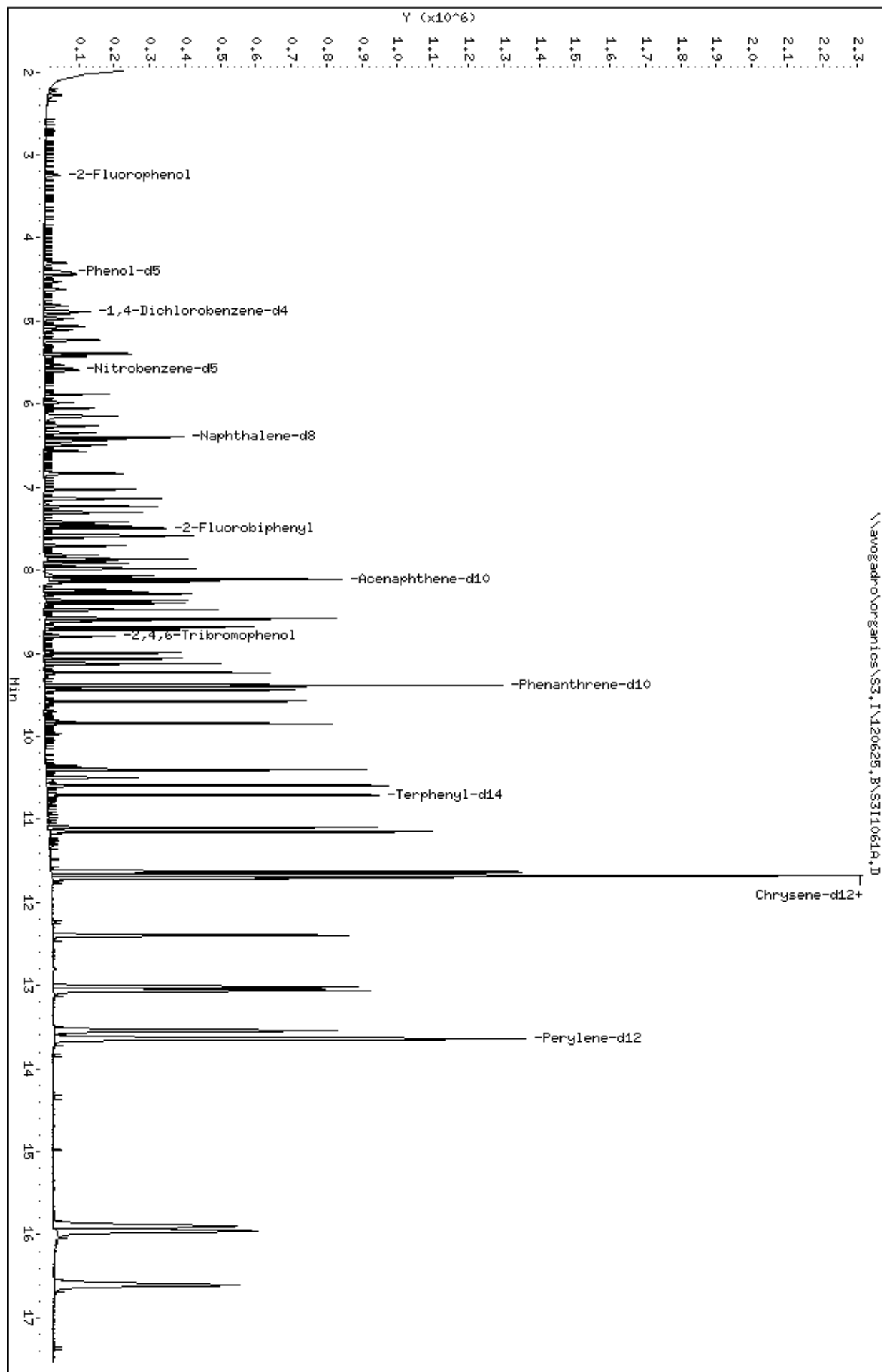
Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
65 Phenanthrene	178	9.401	9.401 (1.002)		257375	25.0000	25
66 Anthracene	178	9.444	9.444 (1.006)		257507	25.0000	24
67 Carbazole	167	9.578	9.578 (1.020)		289317	25.0000	25
68 Di-n-butylphthalate	149	9.845	9.845 (1.049)		324019	25.0000	26
69 Fluoranthene	202	10.400	10.400 (1.108)		358362	25.0000	25
70 Benzidine	184	10.496	10.496 (0.899)		107486	25.0000	19(a)
71 Pyrene	202	10.593	10.593 (0.907)		378713	25.0000	25
\$ 72 Terphenyl-d14	244	10.705	10.705 (0.917)		270456	25.0000	26
73 Butylbenzylphthalate	149	11.100	11.100 (0.951)		191429	25.0000	26
74 3,3'-Dichlorobenzidine	252	11.629	11.629 (0.996)		187653	25.0000	28
78 bis(2-Ethylhexyl)phthalate	149	11.634	11.634 (0.996)		280916	25.0000	26
75 Benzo(a)anthracene	228	11.666	11.666 (0.999)		470327	25.0000	25
* 76 Chrysene-d12	240	11.677	11.677 (1.000)		777197	40.0000	
77 Chrysene	228	11.703	11.703 (1.002)		443078	25.0000	25
79 Di-n-octylphthalate	149	12.392	12.392 (0.908)		528821	25.0000	26
80 Benzo(b)fluoranthene	252	13.017	13.017 (0.954)		559656	25.0000	26
81 Benzo(k)fluoranthene	252	13.060	13.060 (0.957)		559546	25.0000	24
82 Benzo(a)pyrene	252	13.541	13.541 (0.993)		544240	25.0000	25
* 83 Perylene-d12	264	13.642	13.642 (1.000)		898897	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	15.896	15.896 (1.165)		714000	25.0000	26
85 Dibenzo(a,h)anthracene	278	15.955	15.955 (1.170)		591257	25.0000	26
86 Benzo(g,h,i)perylene	276	16.607	16.607 (1.217)		622657	25.0000	26

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\S3.1\120625.B\S311061A.D
 Date : 25-JUN-2012 12:02
 Client ID: SSTID0253G
 Sample Info: SSTID0253G,SSTID0253G
 Volume Injected (uL): 1.0
 Column phase: Rxi-5Sil MS

Instrument: S3.i
 Operator: PK SRC: PK
 Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120618.B\S3I0950A.D
Lab Smp Id: DFTPP3B Client Smp ID: DFTPP3B
Inj Date : 18-JUN-2012 11:58
Operator : PK/DL SRC: PK/DL Inst ID: S3.i
Smp Info : DFTPP3B, DFTPP3B
Misc Info :
Comment :
Method : \\avogadro\organics\S3.I\120618.B\S3_dftppSOM.m
Meth Date : 14-Jun-2012 15:48 pkaczorows Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 100 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									
RT	EXP RT	DLT RT	MASS	RESPONSE	ON-COL		TARGET	RANGE	RATIO
					(ug/L)	FINAL			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.372	4.415	-0.043	198	720448			0.00-	100.00	100.00
4.372	4.415	-0.043	51	298432			10.00-	80.00	41.42
4.372	4.415	-0.043	68	0	0.0	0.0	0.00-	2.00	0.00
4.372	4.415	-0.043	69	292480			0.00-	0.00	40.60
4.372	4.415	-0.043	70	1268			0.00-	2.00	0.43
4.372	4.415	-0.043	127	356160			10.00-	80.00	49.44
4.372	4.415	-0.043	197	0	0.0	0.0	0.00-	2.00	0.00
4.372	4.415	-0.043	199	49288			5.00-	9.00	6.84
4.372	4.415	-0.043	275	196032			10.00-	60.00	27.21
4.372	4.415	-0.043	365	25800			1.00-	0.00	3.58
4.372	4.415	-0.043	441	83016			0.01-	99.99	70.34
4.372	4.415	-0.043	442	609024			50.00-	100.00	84.53
4.372	4.415	-0.043	443	118016			15.00-	24.00	19.38

Date : 18-JUN-2012 11:58

Client ID: DFTPP3B

Instrument: S3.i

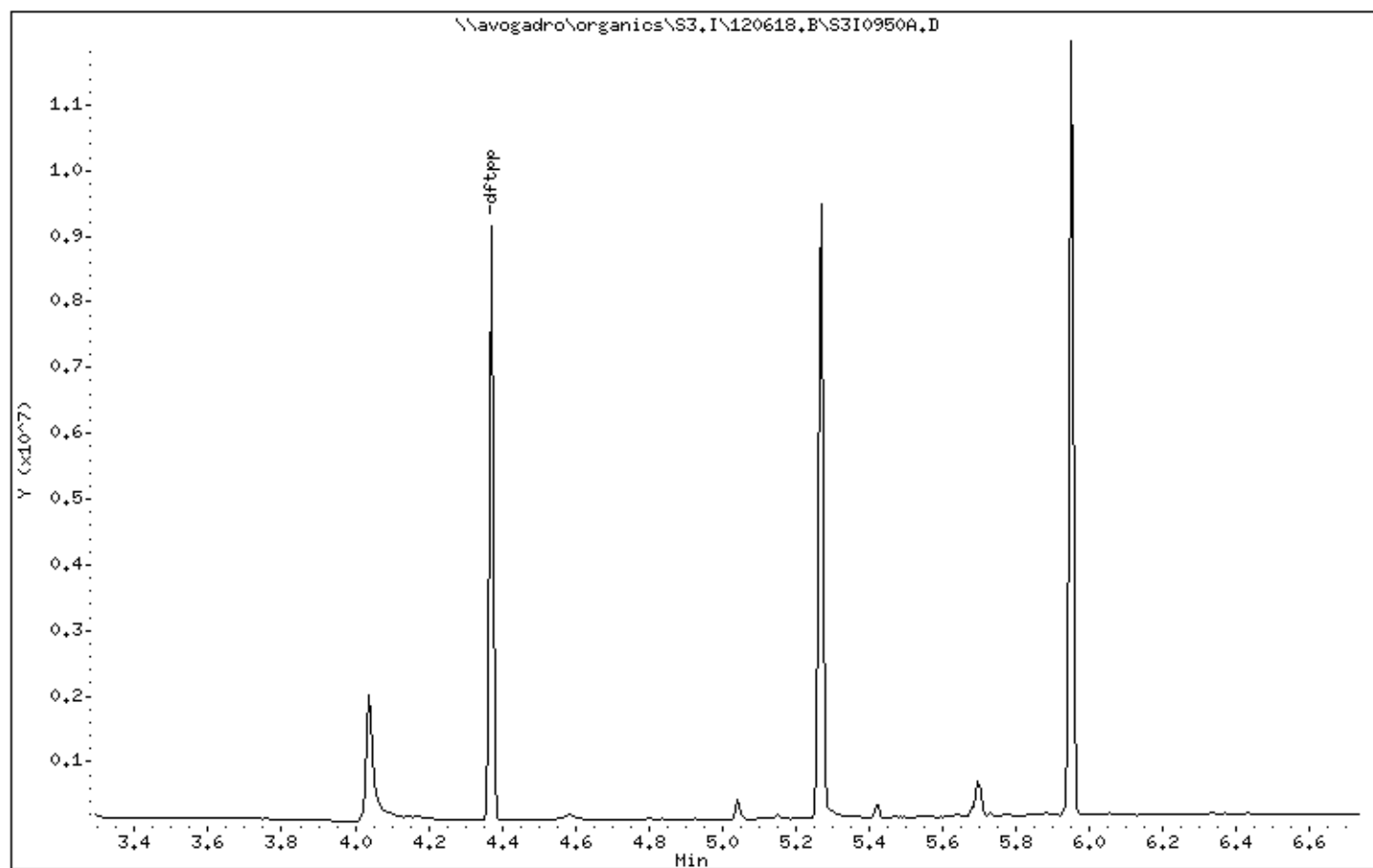
Sample Info: DFTPP3B,DFTPP3B

Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

Column phase: RXi-5SILMS

Column diameter: 0.25



Date : 18-JUN-2012 11:58

Client ID: DFTPP3B

Instrument: S3.i

Sample Info: DFTPP3B,DFTPP3B

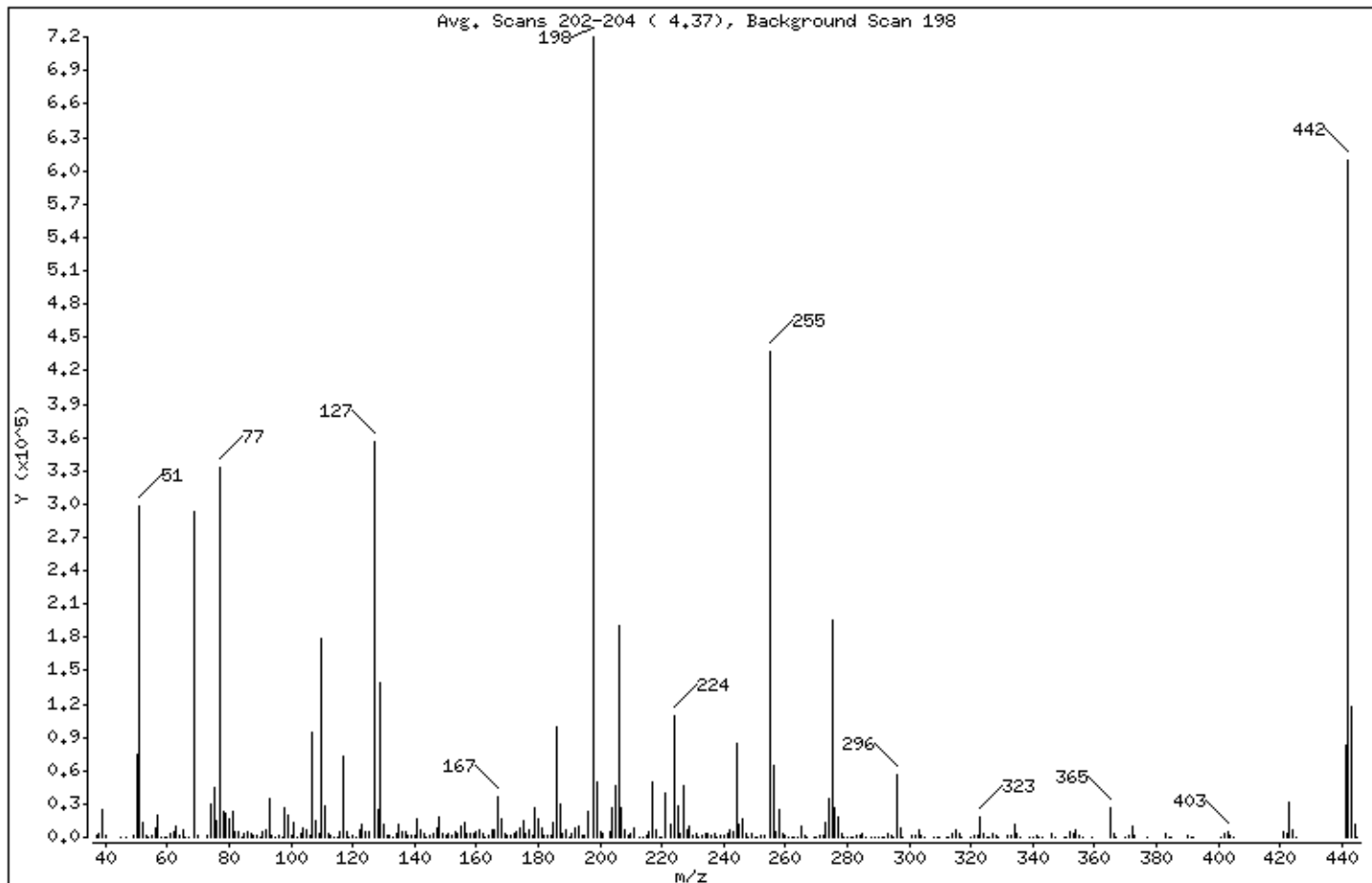
Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

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	41.42
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.60
70	Less than 2.00% of mass 69	0.18 (0.43)
127	10.00 - 80.00% of mass 198	49.44
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 60.00% of mass 198	27.21
365	Greater than 1.00% of mass 198	3.58
441	Present, but less than mass 443	11.52
442	50.00 - 100.00% of mass 198	84.53
443	15.00 - 24.00% of mass 442	16.38 (19.38)

Date : 18-JUN-2012 11:58

Client ID: DFTPP3B

Instrument: S3.i

Sample Info: DFTPP3B,DFTPP3B

Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

Column phase: RXi-5SILMS

Column diameter: 0.25

Data File: S3I0950A.D

Spectrum: Avg. Scans 202-204 (4.37), Background Scan 198

Location of Maximum: 198.00

Number of points: 318

m/z	Y	m/z	Y	m/z	Y	m/z	Y

37.00	1756	127.00	356160	209.00	1682	294.00	869
38.00	3952	128.00	25448	210.00	3143	295.00	481
39.00	24464	129.00	138304	211.00	8035	296.00	56360
40.00	1032	130.00	10843	213.00	456	297.00	8552
45.00	674	131.00	1990	214.00	430	298.00	485

47.00	524	132.00	1512	215.00	2241	301.00	887
49.00	2300	133.00	154	216.00	4187	302.00	1009
50.00	75280	134.00	3701	217.00	49000	303.00	7114
51.00	298432	135.00	11326	218.00	6969	304.00	1953
52.00	13693	136.00	4332	219.00	817	305.00	104

53.00	965	137.00	5270	220.00	230	308.00	430
54.00	122	138.00	1629	221.00	40168	309.00	432
55.00	1223	139.00	1177	223.00	11143	310.00	722
56.00	7877	140.00	1989	224.00	108840	312.00	301
57.00	19952	141.00	16960	225.00	28088	313.00	289

58.00	563	142.00	6153	226.00	3289	314.00	3058
59.00	171	143.00	4098	227.00	45736	315.00	6575
60.00	342	144.00	735	228.00	6153	316.00	3342
61.00	4125	145.00	1161	229.00	9437	317.00	624
62.00	4145	146.00	3155	230.00	1351	320.00	163

63.00	10728	147.00	8829	231.00	3956	321.00	1894
64.00	1916	148.00	18552	232.00	757	322.00	977
65.00	6500	149.00	3961	233.00	987	323.00	17824
66.00	206	150.00	1441	234.00	3260	324.00	3043
67.00	82	151.00	2560	235.00	3898	325.00	134

69.00	292480	152.00	1622	236.00	1979	326.00	237
70.00	1268	153.00	5174	237.00	3587	327.00	3153
73.00	1154	154.00	4076	238.00	494	328.00	1741
74.00	29360	155.00	10130	239.00	1871	329.00	417
75.00	45432	156.00	13428	240.00	1851	332.00	1072

76.00	15686	157.00	3183	241.00	2927	333.00	1697
77.00	333568	158.00	3772	242.00	6125	334.00	12052
78.00	22520	159.00	2619	243.00	5705	335.00	2951
79.00	21256	160.00	5076	244.00	85072	336.00	358
80.00	16165	161.00	7139	245.00	11613	339.00	357

Date : 18-JUN-2012 11:58

Client ID: DFTPP3B

Instrument: S3.i

Sample Info: DFTPP3B,DFTPP3B

Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

Column phase: RXi-5SILMS

Column diameter: 0.25

Data File: S3I0950A.D

Spectrum: Avg. Scans 202-204 (4.37), Background Scan 198

Location of Maximum: 198.00

Number of points: 318

m/z	Y	m/z	Y	m/z	Y	m/z	Y

81.00	22696	162.00	2875	246.00	17208	340.00	274
82.00	5341	163.00	535	247.00	3089	341.00	2291
83.00	5539	164.00	1284	248.00	634	342.00	537
84.00	331	165.00	6844	249.00	3002	343.00	133
85.00	3178	166.00	5864	250.00	580	346.00	3968

86.00	5781	167.00	36984	251.00	802	347.00	807
87.00	3133	168.00	16392	252.00	958	350.00	142
88.00	1249	169.00	3025	253.00	1623	351.00	367
89.00	969	170.00	1541	255.00	436992	352.00	5408
90.00	279	171.00	1239	256.00	64416	353.00	3534

91.00	5486	172.00	3900	257.00	5387	354.00	6146
92.00	6359	173.00	4162	258.00	25240	355.00	1437
93.00	35104	174.00	7777	259.00	3969	356.00	128
94.00	1999	175.00	14296	260.00	987	359.00	347
95.00	785	176.00	3698	261.00	803	365.00	25800

96.00	1985	177.00	6954	262.00	114	366.00	3659
97.00	534	178.00	2022	263.00	137	367.00	158
98.00	25856	179.00	26528	264.00	652	370.00	534
99.00	19656	180.00	17336	265.00	10725	371.00	1329
100.00	2171	181.00	8390	266.00	1288	372.00	9576

101.00	13095	182.00	1496	267.00	245	373.00	2208
102.00	439	183.00	1094	269.00	109	377.00	160
103.00	4054	184.00	2439	270.00	709	383.00	2583
104.00	8608	185.00	13321	271.00	979	384.00	713
105.00	7297	186.00	99264	272.00	1467	385.00	156

106.00	1320	187.00	30424	273.00	12528	390.00	1380
107.00	94952	188.00	2593	274.00	34448	391.00	648
108.00	15726	189.00	6698	275.00	196032	392.00	533
109.00	3103	190.00	817	276.00	25816	401.00	648
110.00	178880	191.00	3190	277.00	17544	402.00	3854

111.00	28560	192.00	8602	278.00	2722	403.00	5153
112.00	3424	193.00	9946	279.00	724	404.00	1647
113.00	1004	194.00	1426	280.00	139	405.00	393
114.00	370	195.00	1250	281.00	221	421.00	4502
115.00	641	196.00	22536	282.00	498	422.00	3900

Date : 18-JUN-2012 11:58

Client ID: DFTPP3B

Instrument: S3.i

Sample Info: DFTPP3B,DFTPP3B

Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

Column phase: Rxi-5SILMS

Column diameter: 0.25

Data File: S3I0950A.D

Spectrum: Avg. Scans 202-204 (4.37), Background Scan 198

Location of Maximum: 198.00

Number of points: 318

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	4542	198.00	720448	283.00	1705	423.00	31480
117.00	73168	199.00	49288	284.00	1152	424.00	6879
118.00	5422	200.00	4352	285.00	3544	425.00	636
119.00	522	201.00	3427	286.00	519	441.00	83016
120.00	1671	203.00	4926	288.00	124	442.00	609024
121.00	70	204.00	26424	289.00	805	443.00	118016
122.00	6184	205.00	46024	290.00	552	444.00	11620
123.00	10865	206.00	190144	291.00	432	445.00	750
124.00	4410	207.00	26184	292.00	823		
125.00	4545	208.00	6104	293.00	4055		

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120621.B\S3I1010.D
 Lab Smp Id: DFTPP3D Client Smp ID: DFTPP3D
 Inj Date : 21-JUN-2012 17:07
 Operator : PK/DL SRC: PK/DL Inst ID: S3.i
 Smp Info : DFTPP3D, DFTPP3D
 Misc Info :
 Comment :
 Method : \\avogadro\organics\S3.I\120621.B\S3_dftppSOM.m
 Meth Date : 14-Jun-2012 15:48 pkaczorows Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 100 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									
RT	EXP RT	DLT RT	MASS	RESPONSE	ON-COL		TARGET	RANGE	RATIO
					(ug/L)	FINAL			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.321	4.415	-0.094	198	482816			0.00-	100.00	100.00
4.321	4.415	-0.094	51	177728			10.00-	80.00	36.81
4.321	4.415	-0.094	68	1459			0.00-	2.00	0.84
4.321	4.415	-0.094	69	174208			0.00-	0.00	36.08
4.321	4.415	-0.094	70	808			0.00-	2.00	0.46
4.321	4.415	-0.094	127	224320			10.00-	80.00	46.46
4.321	4.415	-0.094	197	0	0.0	0.0	0.00-	2.00	0.00
4.321	4.415	-0.094	199	33792			5.00-	9.00	7.00
4.321	4.415	-0.094	275	124344			10.00-	60.00	25.75
4.321	4.415	-0.094	365	12740			1.00-	0.00	2.64
4.321	4.415	-0.094	441	51808			0.01-	99.99	71.47
4.321	4.415	-0.094	442	354816			50.00-	100.00	73.49
4.321	4.415	-0.094	443	72488			15.00-	24.00	20.43

Date : 21-JUN-2012 17:07

Client ID: DFTPP3D

Instrument: S3.i

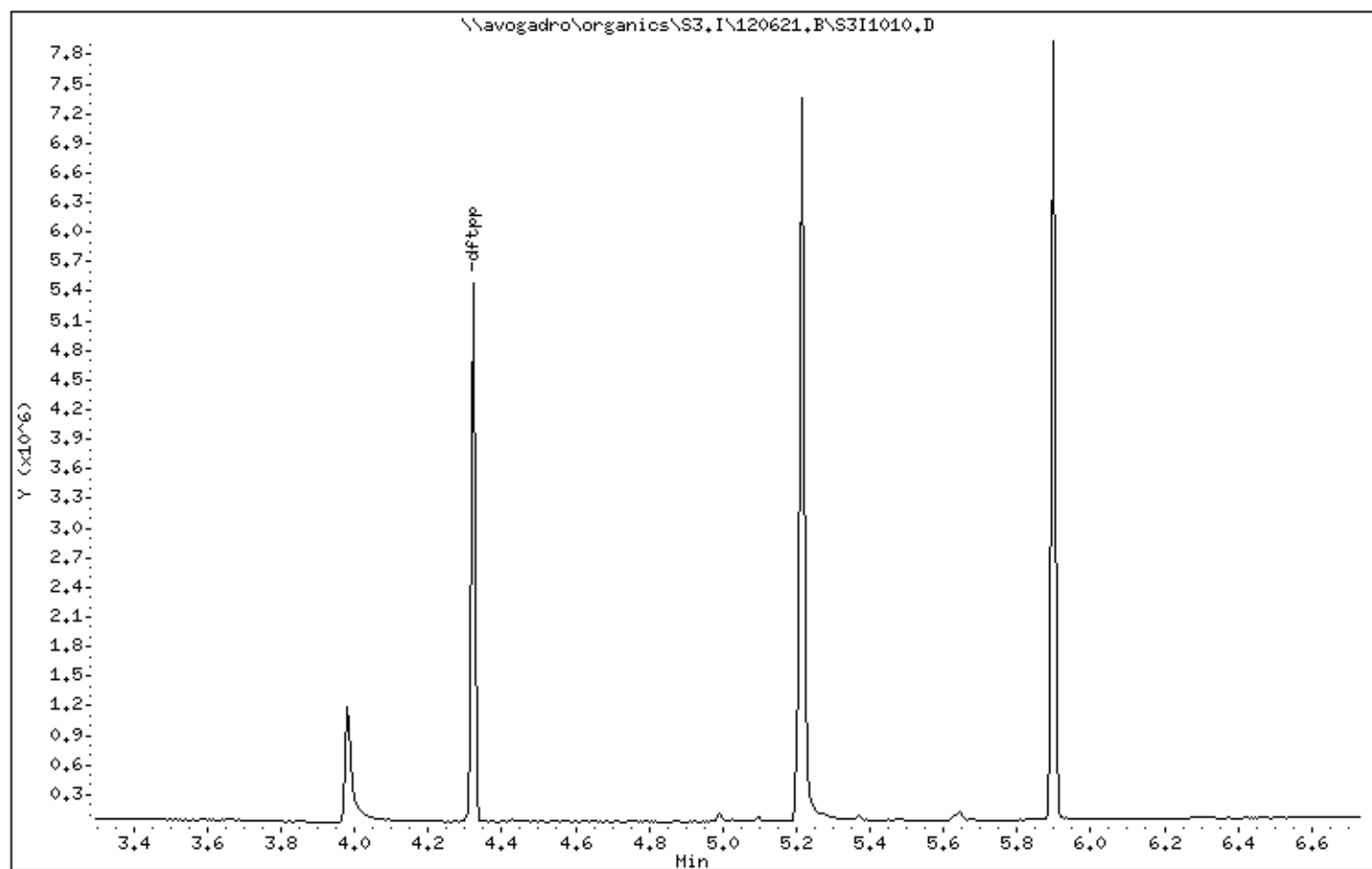
Sample Info: DFTPP3D,DFTPP3D

Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

Column phase: RXi-5SILMS

Column diameter: 0.25



Date : 21-JUN-2012 17:07

Client ID: DFTPP3D

Instrument: S3.i

Sample Info: DFTPP3D,DFTPP3D

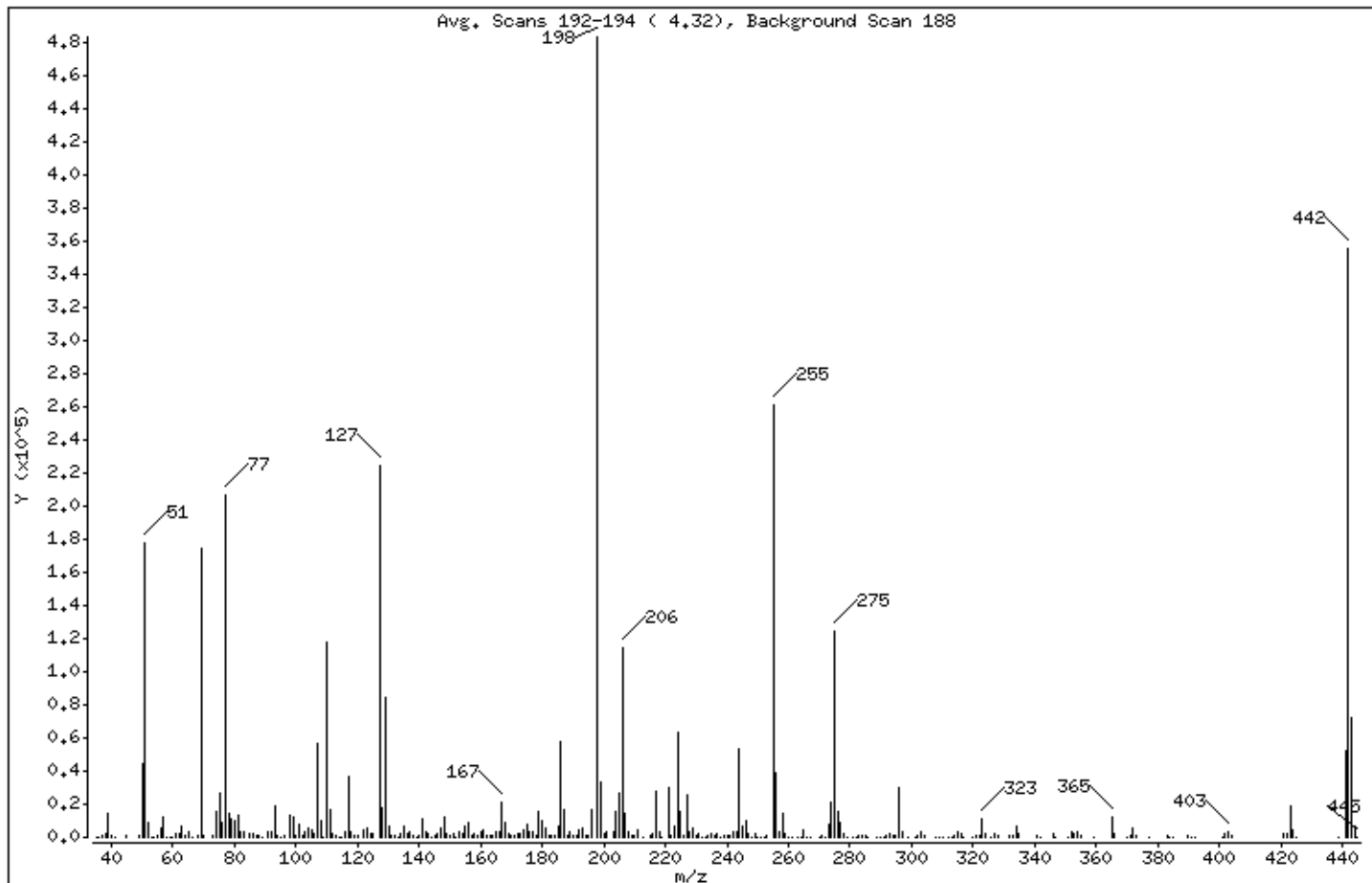
Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

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	36.81
68	Less than 2.00% of mass 69	0.30 (0.84)
69	Mass 69 relative abundance	36.08
70	Less than 2.00% of mass 69	0.17 (0.46)
127	10.00 - 80.00% of mass 198	46.46
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.00
275	10.00 - 60.00% of mass 198	25.75
365	Greater than 1.00% of mass 198	2.64
441	Present, but less than mass 443	10.73
442	50.00 - 100.00% of mass 198	73.49
443	15.00 - 24.00% of mass 442	15.01 (20.43)

Date : 21-JUN-2012 17:07

Client ID: DFTPP3D

Instrument: S3.i

Sample Info: DFTPP3D,DFTPP3D

Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

Column phase: Rxi-5SILMS

Column diameter: 0.25

Data File: S3I1010.D

Spectrum: Avg. Scans 192-194 (4.32), Background Scan 188

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y

35.00	212	124.00	2289	203.00	2895	289.00	438
36.00	493	125.00	2692	204.00	15057	290.00	236
37.00	936	127.00	224320	205.00	26272	291.00	195
38.00	2205	128.00	17632	206.00	114192	292.00	661
39.00	14225	129.00	84512	207.00	14565	293.00	2010

40.00	798	130.00	6356	208.00	3715	294.00	563
41.00	243	131.00	1572	209.00	1278	295.00	751
45.00	710	132.00	650	210.00	1184	296.00	29472
49.00	697	133.00	488	211.00	4502	297.00	3728
50.00	44880	134.00	2397	213.00	327	299.00	134

51.00	177728	135.00	6516	215.00	1100	301.00	331
52.00	8941	136.00	2398	216.00	2229	302.00	587
53.00	349	137.00	3081	217.00	28080	303.00	3506
54.00	110	138.00	1030	218.00	3306	304.00	983
55.00	600	139.00	442	219.00	394	308.00	455

56.00	5062	140.00	1084	221.00	29640	309.00	261
57.00	11851	141.00	11083	222.00	783	310.00	219
58.00	534	142.00	3675	223.00	6611	312.00	128
59.00	188	143.00	2365	224.00	63712	313.00	353
60.00	291	144.00	553	225.00	15996	314.00	1622

61.00	2243	145.00	624	226.00	1504	315.00	3273
62.00	2301	146.00	1935	227.00	25344	316.00	1933
63.00	6579	147.00	5632	228.00	3583	317.00	471
64.00	984	148.00	11684	229.00	5679	320.00	109
65.00	3795	149.00	2275	230.00	599	321.00	879

66.00	102	150.00	907	231.00	2329	322.00	742
68.00	1459	151.00	1805	232.00	546	323.00	10674
69.00	174208	152.00	261	233.00	303	324.00	1945
70.00	808	153.00	3762	234.00	1621	326.00	147
73.00	1589	154.00	2491	235.00	1803	327.00	1764

74.00	15889	155.00	6264	236.00	1215	328.00	663
75.00	26296	156.00	8877	237.00	2014	332.00	809
76.00	8769	157.00	1626	238.00	222	333.00	965
77.00	206976	158.00	2120	239.00	1113	334.00	6368
78.00	14335	159.00	1574	240.00	735	335.00	1670

Date : 21-JUN-2012 17:07

Client ID: DFTPP3D

Instrument: S3.i

Sample Info: DFTPP3D,DFTPP3D

Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

Column phase: Rxi-5SILMS

Column diameter: 0.25

Data File: S3I1010.D

Spectrum: Avg. Scans 192-194 (4.32), Background Scan 188

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y

79.00	11440	160.00	3383	241.00	1360	341.00	1471
80.00	9689	161.00	4873	242.00	3456	342.00	385
81.00	13149	162.00	1446	243.00	3432	346.00	2048
82.00	3429	163.00	557	244.00	53088	347.00	321
83.00	3456	164.00	817	245.00	7082	351.00	121

85.00	2628	165.00	3679	246.00	9453	352.00	3004
86.00	2772	166.00	3381	247.00	1873	353.00	2478
87.00	1141	167.00	20912	248.00	322	354.00	3357
88.00	758	168.00	9185	249.00	2016	355.00	654
89.00	435	169.00	1986	250.00	416	359.00	200

91.00	3267	170.00	839	251.00	305	365.00	12740
92.00	3586	171.00	1055	252.00	384	366.00	1723
93.00	18704	172.00	1710	253.00	969	370.00	255
94.00	1487	173.00	2418	255.00	261120	371.00	760
95.00	203	174.00	4638	256.00	39312	372.00	5406

96.00	1376	175.00	7615	257.00	2863	373.00	1437
98.00	13655	176.00	2940	258.00	14700	377.00	102
99.00	12378	177.00	3637	259.00	2094	383.00	1444
100.00	1357	178.00	1338	260.00	299	384.00	454
101.00	7727	179.00	14994	261.00	548	385.00	106

102.00	609	180.00	10184	263.00	106	390.00	784
103.00	2902	181.00	5397	264.00	295	391.00	447
104.00	5046	182.00	985	265.00	4899	392.00	303
105.00	4614	183.00	747	266.00	2	401.00	138
106.00	1766	184.00	1333	267.00	133	402.00	2152

107.00	57104	185.00	6590	270.00	488	403.00	3248
108.00	9683	186.00	58128	271.00	826	404.00	1238
109.00	381	187.00	17016	272.00	541	421.00	2418
110.00	117632	188.00	1638	273.00	7781	422.00	2447
111.00	16984	189.00	3244	274.00	21136	423.00	19288

112.00	2231	190.00	765	275.00	124344	424.00	3983
113.00	563	191.00	1565	276.00	15913	425.00	419
114.00	111	192.00	4608	277.00	9177	439.00	121
115.00	187	193.00	5136	278.00	1710	441.00	51808
116.00	3259	194.00	1234	279.00	444	442.00	354816

Date : 21-JUN-2012 17:07

Client ID: DFTPP3D

Instrument: S3.i

Sample Info: DFTPP3D,DFTPP3D

Volume Injected (uL): 2.0

Operator: PK/DL SRC: PK/DL

Column phase: Rxi-5SILMS

Column diameter: 0.25

Data File: S3I1010.D

Spectrum: Avg. Scans 192-194 (4.32), Background Scan 188

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	36576	195.00	799	281.00	293	443.00	72488
118.00	3174	196.00	16197	282.00	281	444.00	6564
119.00	694	198.00	482816	283.00	1217	445.00	404
120.00	761	199.00	33792	284.00	911		
122.00	3951	200.00	2485	285.00	1662		
123.00	5759	201.00	3103	286.00	388		

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120625.B\S3I1060C.D
 Lab Smp Id: DFTPP3G Client Smp ID: DFTPP3G
 Inj Date : 25-JUN-2012 10:47
 Operator : PK SRC: PK Inst ID: S3.i
 Smp Info : DFTPP3G, DFTPP3G
 Misc Info :
 Comment :
 Method : \\avogadro\organics\S3.I\120625.B\S3_dftppSOM.m
 Meth Date : 14-Jun-2012 15:48 pkaczorows Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 100 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									
RT	EXP RT	DLT RT	MASS	RESPONSE	ON-COL		TARGET	RANGE	RATIO
					(ug/L)	FINAL			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.297	4.415	-0.118	198	471872			0.00-	100.00	100.00
4.297	4.415	-0.118	51	168832			10.00-	80.00	35.78
4.297	4.415	-0.118	68	0	0.0	0.0	0.00-	2.00	0.00
4.297	4.415	-0.118	69	166080			0.00-	0.00	35.20
4.297	4.415	-0.118	70	728			0.00-	2.00	0.44
4.297	4.415	-0.118	127	218624			10.00-	80.00	46.33
4.297	4.415	-0.118	197	652			0.00-	2.00	0.14
4.297	4.415	-0.118	199	32880			5.00-	9.00	6.97
4.297	4.415	-0.118	275	120384			10.00-	60.00	25.51
4.297	4.415	-0.118	365	13627			1.00-	0.00	2.89
4.297	4.415	-0.118	441	46272			0.01-	99.99	69.27
4.297	4.415	-0.118	442	338944			50.00-	100.00	71.83
4.297	4.415	-0.118	443	66800			15.00-	24.00	19.71

Date : 25-JUN-2012 10:47

Client ID: DFTPP3G

Instrument: S3.i

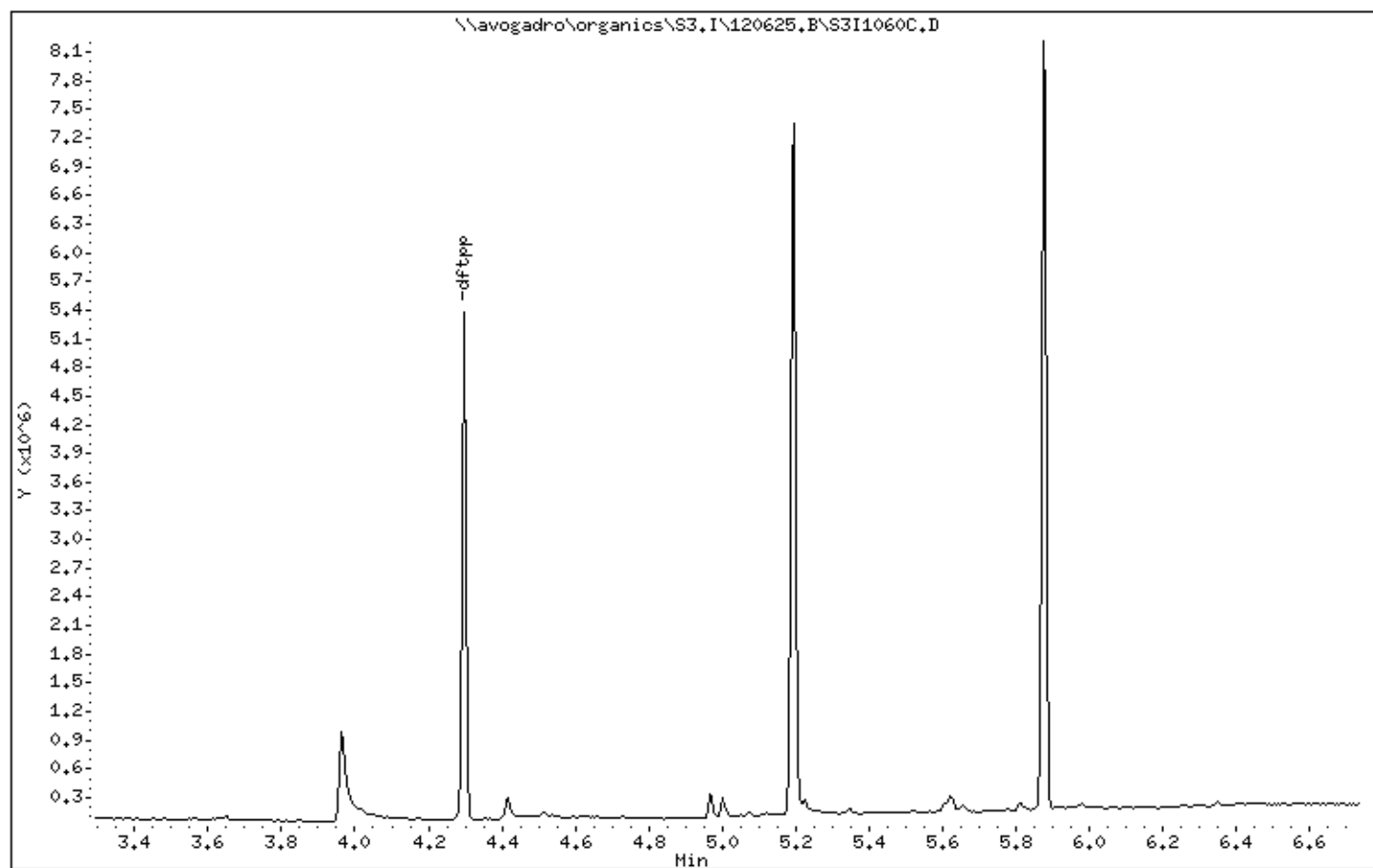
Sample Info: DFTPP3G,DFTPP3G

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: RXi-5SILMS

Column diameter: 0.25



Date : 25-JUN-2012 10:47

Client ID: DFTPP3G

Instrument: S3.i

Sample Info: DFTPP3G,DFTPP3G

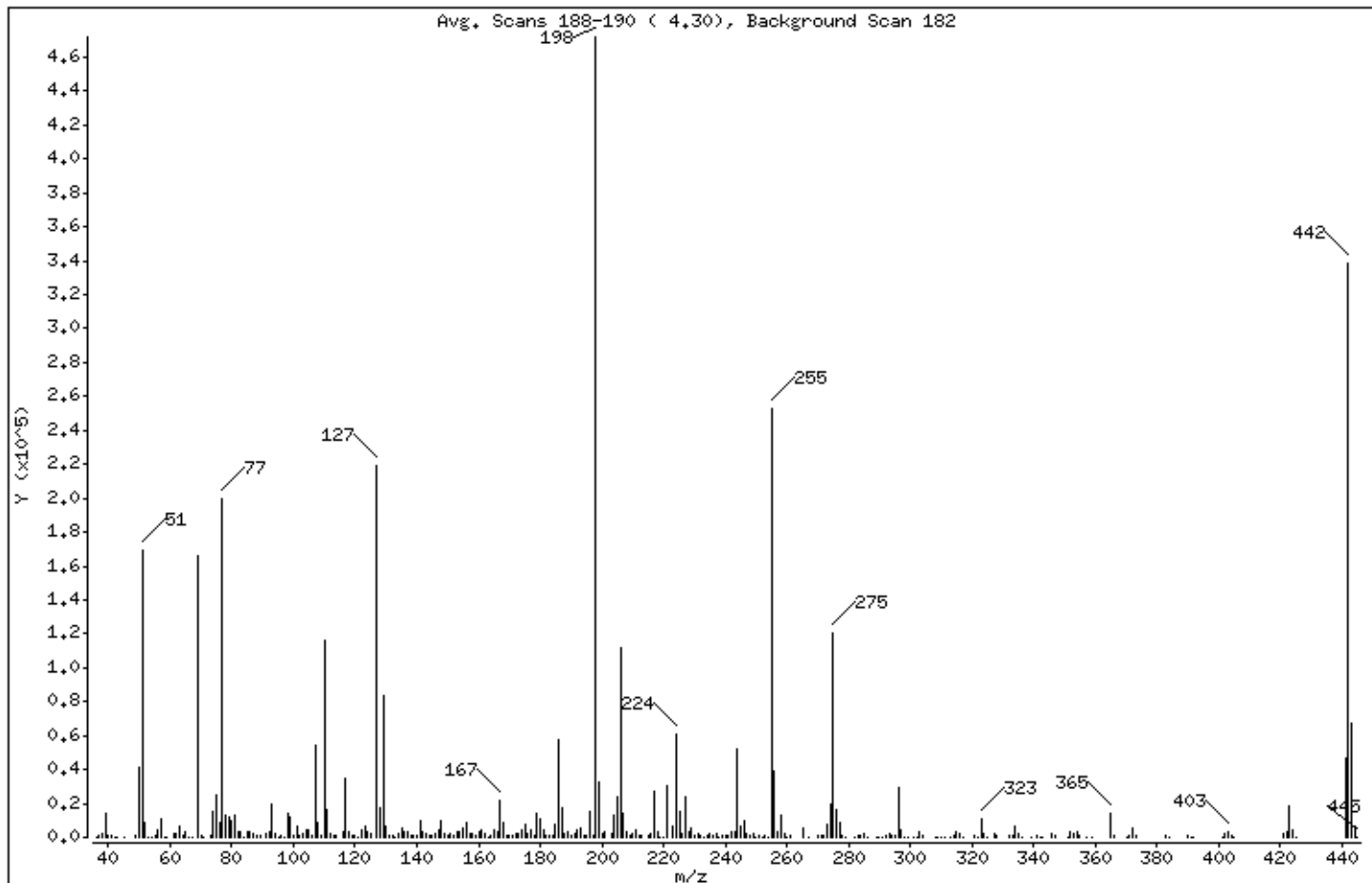
Volume Injected (uL): 2.0

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	35.78
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	35.20
70	Less than 2.00% of mass 69	0.15 (0.44)
127	10.00 - 80.00% of mass 198	46.33
197	Less than 2.00% of mass 198	0.14
199	5.00 - 9.00% of mass 198	6.97
275	10.00 - 60.00% of mass 198	25.51
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	9.81
442	50.00 - 100.00% of mass 198	71.83
443	15.00 - 24.00% of mass 442	14.16 (19.71)

Date : 25-JUN-2012 10:47

Client ID: DFTPP3G

Instrument: S3.i

Sample Info: DFTPP3G,DFTPP3G

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: Rxi-5SILMS

Column diameter: 0.25

Data File: S3I1060C.D

Spectrum: Avg. Scans 188-190 (4.30), Background Scan 182

Location of Maximum: 198.00

Number of points: 305

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.00	112	122.00	3955	200.00	2404	290.00	349
37.00	860	123.00	6164	201.00	3114	291.00	192
38.00	1958	124.00	2716	203.00	2292	292.00	700
39.00	13863	125.00	2592	204.00	13045	293.00	2369
40.00	1000	127.00	218624	205.00	23936	294.00	558

41.00	1486	128.00	17016	206.00	111696	295.00	670
42.00	270	129.00	83504	207.00	13676	296.00	28936
43.00	70	130.00	6963	208.00	3733	297.00	4521
45.00	510	131.00	1426	209.00	1049	298.00	211
49.00	996	132.00	1147	210.00	1838	299.00	148

50.00	40744	133.00	90	211.00	4376	301.00	476
51.00	168832	134.00	2234	212.00	656	302.00	534
52.00	8446	135.00	5817	213.00	621	303.00	3696
53.00	232	136.00	2907	215.00	1316	304.00	1244
54.00	52	137.00	3303	216.00	1894	308.00	416

55.00	1172	138.00	915	217.00	27256	309.00	287
56.00	4767	139.00	872	218.00	3327	310.00	456
57.00	10829	140.00	1176	219.00	468	311.00	128
58.00	310	141.00	9881	220.00	142	313.00	362
59.00	254	142.00	3440	221.00	30888	314.00	1369

61.00	1871	143.00	2180	223.00	6601	315.00	3047
62.00	2286	144.00	549	224.00	60432	316.00	2125
63.00	6918	145.00	904	225.00	15165	317.00	325
64.00	1164	146.00	2172	226.00	1657	321.00	1366
65.00	3565	147.00	4711	227.00	23608	322.00	363

66.00	504	148.00	10210	228.00	3687	323.00	10591
67.00	155	149.00	2510	229.00	5135	324.00	2096
69.00	166080	150.00	653	230.00	1146	325.00	219
70.00	728	151.00	1638	231.00	1948	327.00	1758
71.00	100	152.00	981	232.00	641	328.00	1181

73.00	681	153.00	3455	233.00	429	332.00	747
74.00	15715	154.00	2889	234.00	1400	333.00	833
75.00	24656	155.00	5278	235.00	1956	334.00	6747
76.00	9061	156.00	8549	236.00	1094	335.00	1747
77.00	199488	157.00	2491	237.00	1643	336.00	119

Date : 25-JUN-2012 10:47

Client ID: DFTPP3G

Instrument: S3.i

Sample Info: DFTPP3G,DFTPP3G

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: RXi-SSILMS

Column diameter: 0.25

Data File: S3I1060C.D

Spectrum: Avg. Scans 188-190 (4.30), Background Scan 182

Location of Maximum: 198.00

Number of points: 305

m/z	Y	m/z	Y	m/z	Y	m/z	Y

78.00	12874	158.00	1997	238.00	236	339.00	248
79.00	11563	159.00	1481	239.00	1376	341.00	1136
80.00	9303	160.00	2905	240.00	860	342.00	301
81.00	12761	161.00	4692	241.00	1080	343.00	108
82.00	3253	162.00	1666	242.00	3246	346.00	1775

83.00	2812	163.00	542	243.00	3135	347.00	635
84.00	333	164.00	697	244.00	52040	351.00	121
85.00	2779	165.00	4290	245.00	7000	352.00	2735
86.00	3115	166.00	3728	246.00	9316	353.00	2066
87.00	2394	167.00	21880	247.00	1838	354.00	3216

88.00	1019	168.00	9123	248.00	577	355.00	773
89.00	597	169.00	1489	249.00	1868	357.00	102
91.00	2675	170.00	673	250.00	300	359.00	176
92.00	2943	171.00	812	251.00	724	365.00	13627
93.00	19328	172.00	1911	252.00	427	366.00	1444

94.00	1651	173.00	2300	253.00	718	370.00	101
95.00	416	174.00	4329	254.00	274	371.00	667
96.00	871	175.00	7683	255.00	252928	372.00	5837
97.00	417	176.00	2517	256.00	38576	373.00	1268
98.00	13680	177.00	4169	257.00	2799	383.00	1435

99.00	11983	178.00	1425	258.00	13028	384.00	428
100.00	839	179.00	14335	259.00	2169	390.00	841
101.00	6433	180.00	10707	260.00	495	391.00	491
102.00	610	181.00	4702	261.00	547	392.00	371
103.00	2539	182.00	1040	265.00	5359	401.00	266

104.00	4701	183.00	606	267.00	241	402.00	2094
105.00	4225	184.00	1165	270.00	862	403.00	3105
106.00	1001	185.00	7087	271.00	959	404.00	1099
107.00	53848	186.00	57760	272.00	807	405.00	147
108.00	8987	187.00	17200	273.00	7453	421.00	1985

109.00	1551	188.00	1943	274.00	19472	422.00	2735
110.00	115544	189.00	3500	275.00	120384	423.00	18776
111.00	16640	190.00	552	276.00	16138	424.00	3918
112.00	2685	191.00	1727	277.00	8667	425.00	510
113.00	923	192.00	4308	278.00	1494	441.00	46272

Date : 25-JUN-2012 10:47

Client ID: DFTPP3G

Instrument: S3.i

Sample Info: DFTPP3G,DFTPP3G

Volume Injected (uL): 2.0

Operator: PK SRC: PK

Column phase: Rxi-5SILMS

Column diameter: 0.25

Data File: S3I1060C.D

Spectrum: Avg. Scans 188-190 (4.30), Background Scan 182

Location of Maximum: 198.00

Number of points: 305

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	658	193.00	5413	279.00	298	442.00	338944
116.00	3174	194.00	1274	282.00	518	443.00	66800
117.00	34224	195.00	676	283.00	1228	444.00	6116
118.00	2959	196.00	15646	284.00	638	445.00	457
119.00	666	197.00	652	285.00	1664		
120.00	934	198.00	471872	286.00	320		
121.00	284	199.00	32880	289.00	366		

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66786

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I1062.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/18/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2012

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

EPA SAMPLE NO.

MB-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66786

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I1062.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/18/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2012

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\S3.I\120625.B\S3I1062.D
Report Date: 25-Jun-2012 14:20

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120625.B\S3I1062.D
Lab Smp Id: MB-66786 Client Smp ID: MB-66786
Inj Date : 25-JUN-2012 12:47
Operator : PK SRC: LIMS Inst ID: S3.i
Smp Info : MB-66786,MB-66786,66786
Misc Info :
Comment :
Method : \\avogadro\organics\S3.I\120625.B\s3_8270C_N.m
Meth Date : 25-Jun-2012 14:20 S3.i Quant Type: ISTD
Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * (\text{Vt}/\text{Vi}) * (1/\text{Ws}) * (100/(100-\text{M})) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

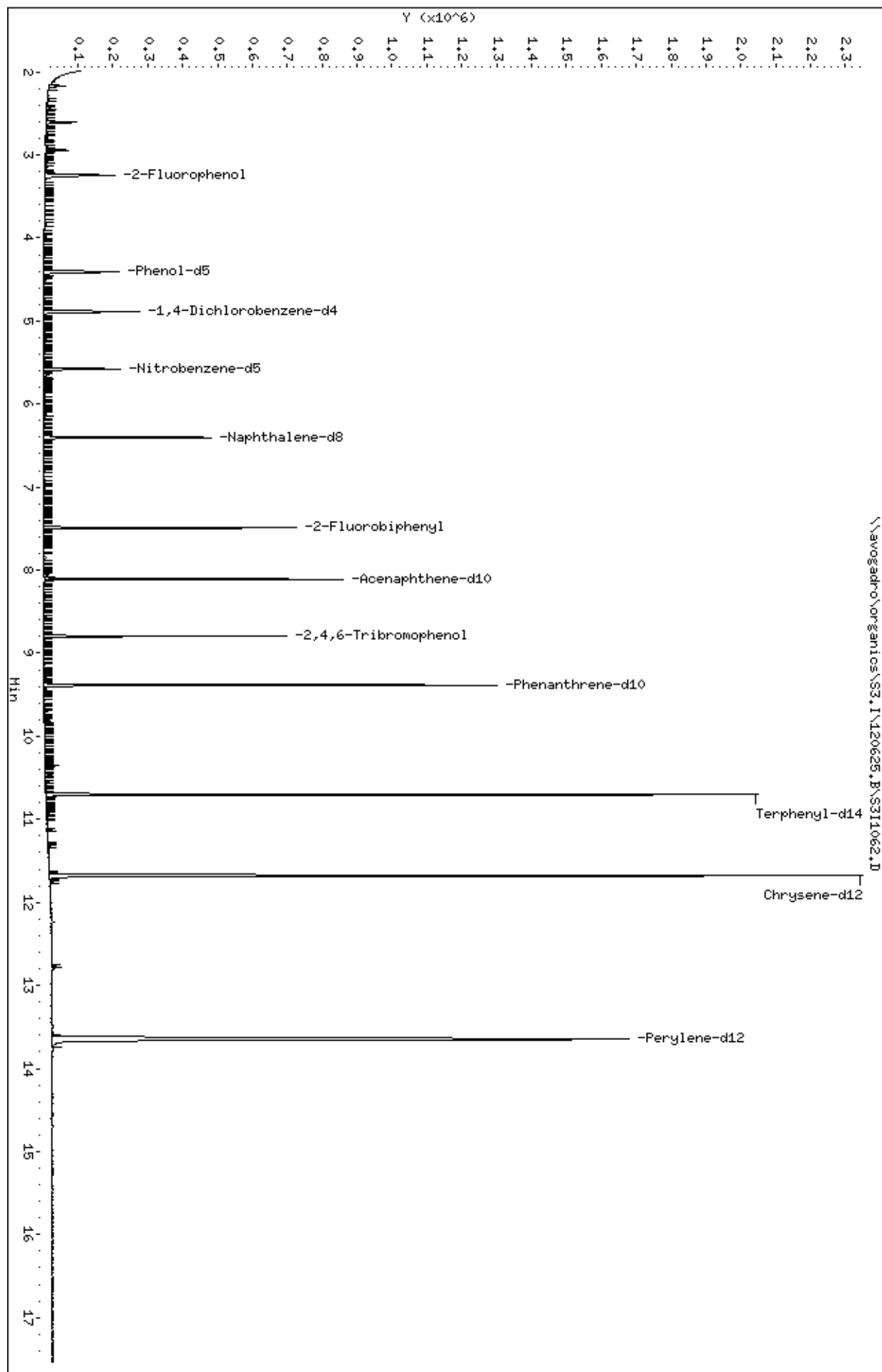
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/Kg)
\$ 3 2-Fluorophenol	112	3.246	3.243	(0.664)	83789	47.9615	3200
\$ 5 Phenol-d5	99	4.405	4.408	(0.902)	116645	37.3767	2500
* 12 1,4-Dichlorobenzene-d4	152	4.886	4.888	(1.000)	56377	40.0000	
\$ 22 Nitrobenzene-d5	82	5.575	5.577	(0.871)	72848	47.1771	3100
* 31 Naphthalene-d8	136	6.403	6.400	(1.000)	224803	40.0000	
\$ 41 2-Fluorobiphenyl	172	7.492	7.495	(0.924)	205215	46.1816	3100
* 48 Acenaphthene-d10	164	8.107	8.109	(1.000)	172451	40.0000	
\$ 60 2,4,6-Tribromophenol	330	8.796	8.798	(0.937)	69016	90.3921	6000(R)
* 64 Phenanthrene-d10	188	9.383	9.385	(1.000)	441483	40.0000	
\$ 72 Terphenyl-d14	244	10.702	10.705	(0.916)	563247	45.9266	3100
* 76 Chrysene-d12	240	11.680	11.677	(1.000)	900195	40.0000	
* 83 Perylene-d12	264	13.651	13.642	(1.000)	1159764	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\S3,I\120625,B\S3I1062.D
 Date : 25-JUN-2012 12:47
 Client ID: MB-66786
 Sample Info: MB-66786,MB-66786,66786
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK SRC: LIMS
 Column diameter: 0.25



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-66786

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I1066B.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/18/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2012

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	2600	
111-44-4	Bis(2-chloroethyl)ether	2500	
95-57-8	2-Chlorophenol	2800	
541-73-1	1,3-Dichlorobenzene	2900	
106-46-7	1,4-Dichlorobenzene	2900	
95-50-1	1,2-Dichlorobenzene	2700	
95-48-7	2-Methylphenol	2400	
108-60-1	2,2'-oxybis(1-Chloropropane)	2400	
106-44-5	4-Methylphenol	2300	
621-64-7	N-Nitroso-di-n-propylamine	2000	
67-72-1	Hexachloroethane	2900	
98-95-3	Nitrobenzene	3300	
78-59-1	Isophorone	2600	
88-75-5	2-Nitrophenol	3800	
105-67-9	2,4-Dimethylphenol	3500	
120-83-2	2,4-Dichlorophenol	3200	
120-82-1	1,2,4-Trichlorobenzene	3000	
91-20-3	Naphthalene	3000	
106-47-8	4-Chloroaniline	1800	
111-91-1	Bis(2-chloroethoxy)methane	2900	
87-68-3	Hexachlorobutadiene	3400	
59-50-7	4-Chloro-3-methylphenol	2800	
91-57-6	2-Methylnaphthalene	2700	
77-47-4	Hexachlorocyclopentadiene	3900	
88-06-2	2,4,6-Trichlorophenol	3500	
95-95-4	2,4,5-Trichlorophenol	3300	
91-58-7	2-Chloronaphthalene	3200	
88-74-4	2-Nitroaniline	3400	
131-11-3	Dimethylphthalate	3000	
208-96-8	Acenaphthylene	3000	
606-20-2	2,6-Dinitrotoluene	3600	
99-09-2	3-Nitroaniline	2600	
83-32-9	Acenaphthene	3100	
51-28-5	2,4-Dinitrophenol	6600	E
100-02-7	4-Nitrophenol	3300	
132-64-9	Dibenzofuran	2900	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-66786

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I1066B.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/18/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2012

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	3700	
84-66-2	Diethylphthalate	2800	
7005-72-3	4-Chlorophenyl-phenylether	3000	
86-73-7	Fluorene	3000	
100-01-6	4-Nitroaniline	3000	
534-52-1	4,6-Dinitro-2-methylphenol	5800	E
86-30-6	N-Nitrosodiphenylamine	3300	
101-55-3	4-Bromophenyl-phenylether	3300	
118-74-1	Hexachlorobenzene	3200	
87-86-5	Pentachlorophenol	3500	
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	3200	
86-74-8	Carbazole	3200	
84-74-2	Di-n-butylphthalate	3000	
206-44-0	Fluoranthene	3100	
129-00-0	Pyrene	3300	
85-68-7	Butylbenzylphthalate	3200	
91-94-1	3,3'-Dichlorobenzidine	3300	
56-55-3	Benzo(a)anthracene	3300	
218-01-9	Chrysene	3300	
117-81-7	Bis(2-ethylhexyl)phthalate	3100	
117-84-0	Di-n-octylphthalate	2800	
205-99-2	Benzo(b)fluoranthene	3100	
207-08-9	Benzo(k)fluoranthene	3100	
50-32-8	Benzo(a)pyrene	3100	
193-39-5	Indeno(1,2,3-cd)pyrene	3500	
53-70-3	Dibenzo(a,h)anthracene	3600	
191-24-2	Benzo(g,h,i)perylene	3600	

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120625.B\S3I1066B.D
Lab Smp Id: LCS-66786 Client Smp ID: LCS-66786
Inj Date : 25-JUN-2012 17:11
Operator : PK SRC: LIMS Inst ID: S3.i
Smp Info : LCS-66786, LCS-66786, 66786
Misc Info :
Comment :
Method : \\avogadro\organics\S3.I\120625.B\s3_8270C_N.m
Meth Date : 25-Jun-2012 14:20 S3.i Quant Type: ISTD
Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.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: $\text{Amt} * \text{DF} * \text{Uf} * (\text{Vt}/\text{Vi}) * (1/\text{Ws}) * (100/(100-\text{M})) * \text{CpndVariable}$

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	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
108 1,4-Dioxane	58	2.061	2.074 (0.422)		2125	7.77520	520(aq)
1 N-Nitrosodimethylamine	74	2.227	2.234 (0.456)		43843	39.5317	2600
2 Pyridine	79	2.269	2.282 (0.464)		61637	36.1629	2400
\$ 3 2-Fluorophenol	112	3.241	3.243 (0.663)		78977	46.9293	3100
101 Benzaldehyde	77	4.294	4.301 (0.879)		45836	31.8846	2100
\$ 5 Phenol-d5	99	4.406	4.408 (0.902)		112935	37.5665	2500
6 Phenol	94	4.427	4.429 (0.906)		117960	38.6799	2600
7 Aniline	66	4.443	4.445 (0.909)		26557	21.2769	1400(QRM)M6 PK 06/26
8 bis(2-Chloroethyl)Ether	63	4.518	4.525 (0.925)		54094	38.0508	2500
10 2-Chlorophenol	128	4.619	4.621 (0.945)		85059	41.7961	2800
11 1,3-Dichlorobenzene	146	4.817	4.819 (0.986)		80960	43.8627	2900
* 12 1,4-Dichlorobenzene-d4	152	4.886	4.888 (1.000)		54308	40.0000	
13 1,4-Dichlorobenzene	146	4.908	4.910 (1.004)		82309	42.8603	2800
15 Benzyl Alcohol	108	5.063	5.065 (1.036)		58472	33.0945	2200
16 1,2-Dichlorobenzene	146	5.105	5.107 (1.045)		78022	40.4102	2700
17 2-Methylphenol	108	5.223	5.225 (1.069)		85223	36.5702	2400
18 2,2'-oxybis(1-Chloropropane)	45	5.234	5.241 (1.071)		121887	35.8653	2400
99 Acetophenone	105	5.394	5.390 (1.104)		107894	28.3817	1900
19 N-Nitroso-di-n-propylamine	70	5.394	5.396 (1.104)		56726	30.2240	2000

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/Kg)
=====	=====		=====	=====	=====	=====	=====	=====	=====
20 4-Methylphenol	108		5.426	5.428	(1.110)		93720	34.7549	2300
21 Hexachloroethane	117		5.522	5.524	(1.130)		27316	44.1119	2900
\$ 22 Nitrobenzene-d5	82		5.575	5.577	(0.871)		78405	49.8587	3300
23 Nitrobenzene	77		5.597	5.599	(0.874)		82241	49.8159	3300
24 Isophorone	82		5.880	5.882	(0.918)		161383	39.0806	2600
25 2-Nitrophenol	139		5.976	5.978	(0.933)		44380	56.6693	3800(R)
26 2,4-Dimethylphenol	107		6.051	6.053	(0.945)		91106	52.2517	3500
27 bis(2-Chloroethoxy)methane	93		6.142	6.143	(0.959)		101100	43.1102	2900
28 Benzoic Acid	105		6.179	6.149	(0.965)		129881	87.8280	5800(A)
29 2,4-Dichlorophenol	162		6.264	6.266	(0.978)		79250	48.1279	3200
30 1,2,4-Trichlorobenzene	180		6.345	6.346	(0.991)		70245	45.5614	3000
* 31 Naphthalene-d8	136		6.403	6.400	(1.000)		228938	40.0000	
32 Naphthalene	128		6.425	6.421	(1.003)		256655	44.8009	3000
33 4-Chloroaniline	127		6.494	6.496	(1.014)		81461	27.5455	1800
34 Hexachlorobutadiene	225		6.569	6.571	(1.026)		36748	50.8114	3400
102 Caprolactam	113		6.841	6.832	(1.068)		47970	33.7018	2200
35 4-Chloro-3-Methylphenol	107		7.023	7.025	(1.097)		98307	41.5761	2800
36 2-Methylnaphthalene	142		7.135	7.137	(1.114)		191195	41.1160	2700
114 1-Methylnaphthalene	142		7.237	7.233	(1.130)		176935	39.0048	2600
38 Hexachlorocyclopentadiene	237		7.301	7.302	(0.901)		30908	58.0763	3900
112 1,2,4,5-Tetrachlorobenzene	216		7.306	7.302	(0.901)		89734	55.3794	3700
39 2,4,6-Trichlorophenol	196		7.423	7.420	(0.916)		65677	52.7745	3500
40 2,4,5-Trichlorophenol	196		7.466	7.463	(0.921)		70612	48.9182	3300
\$ 41 2-Fluorobiphenyl	172		7.493	7.495	(0.924)		210150	47.6795	3200
98 1,1'-Biphenyl	154		7.584	7.585	(0.935)		233101	44.4602	3000
42 2-Chloronaphthalene	162		7.600	7.602	(0.937)		182844	48.4717	3200
43 2-Nitroaniline	65		7.701	7.703	(0.950)		61002	50.7714	3400
44 Dimethylphthalate	163		7.861	7.863	(0.970)		259434	44.5468	3000
45 2,6-Dinitrotoluene	165		7.915	7.917	(0.976)		64070	54.4243	3600
46 Acenaphthylene	152		7.979	7.981	(0.984)		330851	45.2775	3000
47 3-Nitroaniline	138		8.070	8.072	(0.995)		68613	39.4519	2600
* 48 Acenaphthene-d10	164		8.107	8.109	(1.000)		171050	40.0000	
49 Acenaphthene	153		8.134	8.136	(1.003)		207991	46.2729	3100
50 2,4-Dinitrophenol	184		8.155	8.157	(1.006)		34381	98.9903	6600(AQR)
51 4-Nitrophenol	109		8.241	8.248	(1.016)		39143	49.3764	3300
53 2,4-Dinitrotoluene	165		8.267	8.269	(1.020)		96026	55.9979	3700
52 Dibenzofuran	168		8.289	8.285	(1.022)		297876	44.0162	2900
110 2,3,4,6-Tetrachlorophenol	232		8.401	8.403	(1.036)		71474	44.8792	3000
54 Diethylphthalate	149		8.476	8.477	(1.045)		261784	42.5998	2800
56 4-Chlorophenyl-phenylether	204		8.577	8.579	(1.058)		119279	44.4734	3000
55 Fluorene	166		8.582	8.584	(1.059)		268539	44.4700	3000
57 4-Nitroaniline	138		8.604	8.606	(1.061)		95018	44.4424	3000
58 4,6-Dinitro-2-methylphenol	198		8.625	8.622	(0.919)		58438	86.5881	5800(AR)
59 N-Nitrosodiphenylamine	169		8.679	8.680	(0.925)		243925	49.7951	3300
97 Azobenzene	77		8.716	8.712	(0.929)		239652	48.5745	3200
\$ 60 2,4,6-Tribromophenol	330		8.796	8.798	(0.937)		36327	55.8195	3700
61 4-Bromophenyl-phenylether	248		8.999	8.996	(0.959)		74976	49.4698	3300
62 Hexachlorobenzene	284		9.058	9.060	(0.965)		79595	48.5265	3200
100 Atrazine	200		9.127	9.124	(0.973)		85358	51.5293	3400
63 Pentachlorophenol	266		9.229	9.231	(0.983)		62596	52.1970	3500
111 Pentachloronitrobenzene	237		9.234	9.236	(0.984)		35599	58.4716	3900
* 64 Phenanthrene-d10	188		9.384	9.385	(1.000)		376303	40.0000	
65 Phenanthrene	178		9.405	9.401	(1.002)		431715	48.5227	3200
66 Anthracene	178		9.448	9.444	(1.007)		434246	48.2383	3200

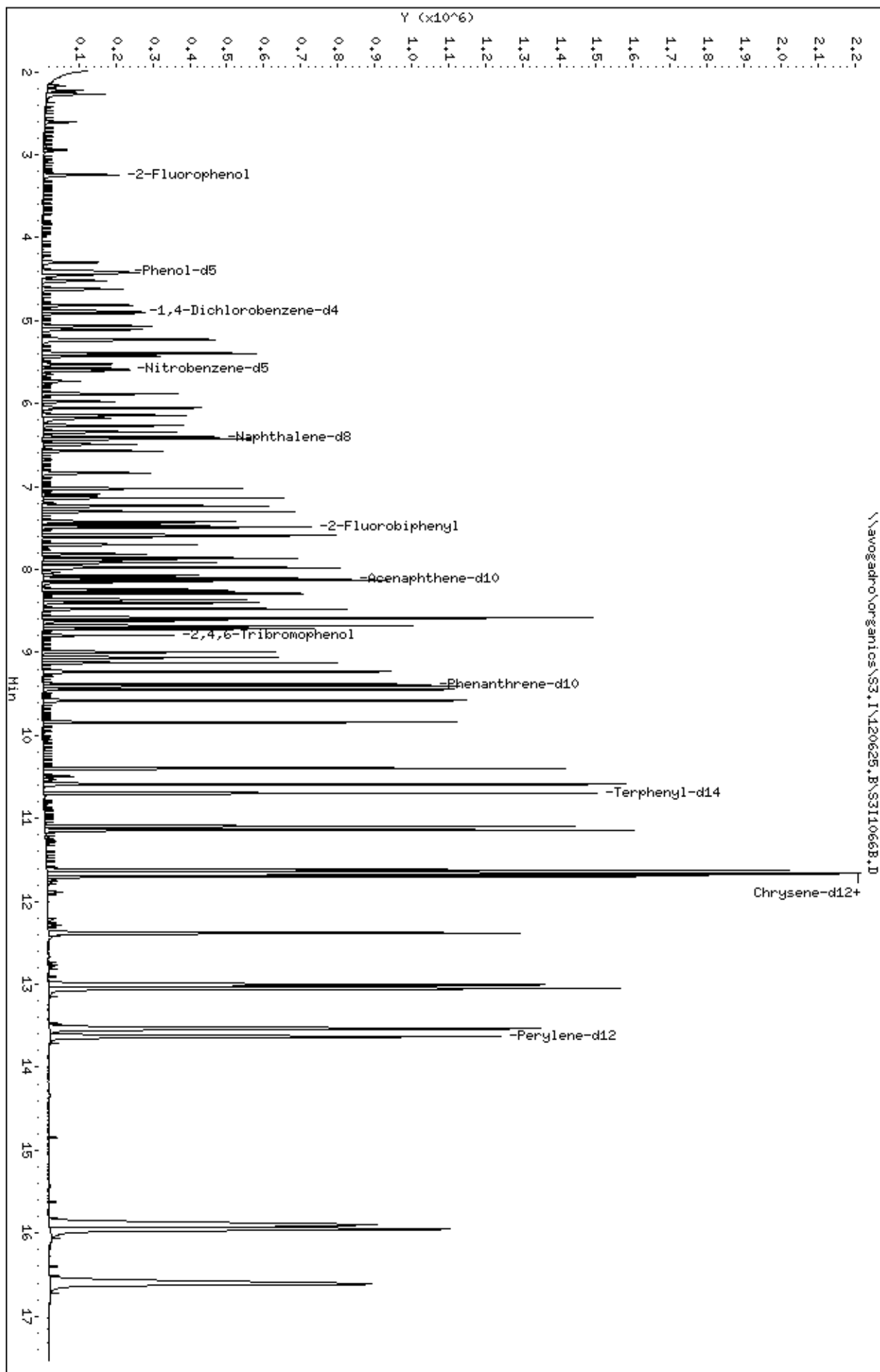
Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
							(ng)	(ug/Kg)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
67 Carbazole		167	9.576	9.578 (1.020)		485487	48.4832	3200	
68 Di-n-butylphthalate		149	9.843	9.845 (1.049)		479919	44.5865	3000	
69 Fluoranthene		202	10.398	10.400 (1.108)		564553	46.6802	3100	
70 Benzidine		184	10.495	10.496 (0.899)		34660	7.56081	500(a)	
71 Pyrene		202	10.585	10.593 (0.907)		599760	49.1493	3300	
\$ 72 Terphenyl-d14		244	10.698	10.705 (0.917)		400143	46.4709	3100	
73 Butylbenzylphthalate		149	11.093	11.100 (0.951)		288174	47.8641	3200	
74 3,3'-Dichlorobenzidine		252	11.616	11.629 (0.995)		271798	49.0482	3300	
78 bis(2-Ethylhexyl)phthalate		149	11.627	11.634 (0.996)		406143	45.7958	3000	
75 Benzo(a)anthracene		228	11.659	11.666 (0.999)		746217	49.3706	3300	
* 76 Chrysene-d12		240	11.670	11.677 (1.000)		632028	40.0000		
77 Chrysene		228	11.696	11.703 (1.002)		703167	49.4364	3300	
79 Di-n-octylphthalate		149	12.380	12.392 (0.908)		759762	42.2317	2800	
80 Benzo(b)fluoranthene		252	13.010	13.017 (0.955)		888119	46.5393	3100	
81 Benzo(k)fluoranthene		252	13.048	13.060 (0.957)		963903	46.3868	3100	
82 Benzo(a)pyrene		252	13.534	13.541 (0.993)		898143	46.5328	3100	
* 83 Perylene-d12		264	13.630	13.642 (1.000)		804882	40.0000		
84 Indeno(1,2,3-cd)pyrene		276	15.900	15.896 (1.167)		1307973	52.3216	3500	
85 Dibenzo(a,h)anthracene		278	15.953	15.955 (1.170)		1096648	53.6450	3600	
86 Benzo(g,h,i)perylene		276	16.610	16.607 (1.219)		1181183	54.0559	3600	

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.
- M - Compound response manually integrated.

Data File: \\avogadro\organics\S3,I\120625,B\S3I1066B.D
 Date : 25-JUN-2012 17:11
 Client ID: LCS-66786
 Sample Info: LCS-66786,LCS-66786,66786
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK SRC: LIMS
 Column diameter: 0.25



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-66786

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I1067B.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/18/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2012

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	2900	
111-44-4	Bis(2-chloroethyl)ether	2600	
95-57-8	2-Chlorophenol	3000	
541-73-1	1,3-Dichlorobenzene	2900	
106-46-7	1,4-Dichlorobenzene	2800	
95-50-1	1,2-Dichlorobenzene	2700	
95-48-7	2-Methylphenol	2700	
108-60-1	2,2'-oxybis(1-Chloropropane)	2400	
106-44-5	4-Methylphenol	2600	
621-64-7	N-Nitroso-di-n-propylamine	2300	
67-72-1	Hexachloroethane	2900	
98-95-3	Nitrobenzene	3300	
78-59-1	Isophorone	2700	
88-75-5	2-Nitrophenol	3900	
105-67-9	2,4-Dimethylphenol	3500	
120-83-2	2,4-Dichlorophenol	3400	
120-82-1	1,2,4-Trichlorobenzene	2900	
91-20-3	Naphthalene	3000	
106-47-8	4-Chloroaniline	2100	
111-91-1	Bis(2-chloroethoxy)methane	2900	
87-68-3	Hexachlorobutadiene	3300	
59-50-7	4-Chloro-3-methylphenol	2900	
91-57-6	2-Methylnaphthalene	2800	
77-47-4	Hexachlorocyclopentadiene	3600	
88-06-2	2,4,6-Trichlorophenol	3500	
95-95-4	2,4,5-Trichlorophenol	3300	
91-58-7	2-Chloronaphthalene	3100	
88-74-4	2-Nitroaniline	3500	
131-11-3	Dimethylphthalate	3000	
208-96-8	Acenaphthylene	3000	
606-20-2	2,6-Dinitrotoluene	3800	
99-09-2	3-Nitroaniline	2800	
83-32-9	Acenaphthene	3000	
51-28-5	2,4-Dinitrophenol	6600	E
100-02-7	4-Nitrophenol	3400	
132-64-9	Dibenzofuran	3000	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66786

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-66786

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I1067B.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 1000 (uL) Date Extracted: 06/18/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/25/2012

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	3800	
84-66-2	Diethylphthalate	2900	
7005-72-3	4-Chlorophenyl-phenylether	3000	
86-73-7	Fluorene	3000	
100-01-6	4-Nitroaniline	3100	
534-52-1	4,6-Dinitro-2-methylphenol	5800	E
86-30-6	N-Nitrosodiphenylamine	3200	
101-55-3	4-Bromophenyl-phenylether	3200	
118-74-1	Hexachlorobenzene	3200	
87-86-5	Pentachlorophenol	3400	
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	3200	
86-74-8	Carbazole	3200	
84-74-2	Di-n-butylphthalate	3000	
206-44-0	Fluoranthene	3100	
129-00-0	Pyrene	3200	
85-68-7	Butylbenzylphthalate	3100	
91-94-1	3,3'-Dichlorobenzidine	3200	
56-55-3	Benzo(a)anthracene	3200	
218-01-9	Chrysene	3200	
117-81-7	Bis(2-ethylhexyl)phthalate	3000	
117-84-0	Di-n-octylphthalate	2900	
205-99-2	Benzo(b)fluoranthene	3100	
207-08-9	Benzo(k)fluoranthene	3000	
50-32-8	Benzo(a)pyrene	3100	
193-39-5	Indeno(1,2,3-cd)pyrene	3400	
53-70-3	Dibenzo(a,h)anthracene	3400	
191-24-2	Benzo(g,h,i)perylene	3400	

Spectrum Analytical, Inc. RI Division

Data file : \\avogadro\organics\S3.I\120625.B\S3I1067B.D
Lab Smp Id: LCSD-66786 Client Smp ID: LCSD-66786
Inj Date : 25-JUN-2012 17:36
Operator : PK SRC: LIMS Inst ID: S3.i
Smp Info : LCSD-66786,LCSD-66786,66786
Misc Info :
Comment :
Method : \\avogadro\organics\S3.I\120625.B\s3_8270C_N.m
Meth Date : 25-Jun-2012 14:20 S3.i Quant Type: ISTD
Cal Date : 21-JUN-2012 19:46 Cal File: S3I1016.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allnew.sub
Target Version: 4.14
Processing Host: TARGET113

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * (\text{Vt}/\text{Vi}) * (1/\text{Ws}) * (100/(100-\text{M})) * \text{CpndVariable}$

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	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
1 N-Nitrosodimethylamine	74	2.222	2.234 (0.455)		45221	41.7112	2800
2 Pyridine	79	2.270	2.282 (0.465)		57687	34.6232	2300
\$ 3 2-Fluorophenol	112	3.242	3.243 (0.663)		83594	50.8143	3400
101 Benzaldehyde	77	4.295	4.301 (0.879)		51846	36.8941	2400
\$ 5 Phenol-d5	99	4.407	4.408 (0.902)		123181	41.9164	2800
6 Phenol	94	4.423	4.429 (0.905)		127951	42.9202	2900
7 Aniline	66	4.444	4.445 (0.909)		30567	25.0525	1700(QM)M6 PK 06/26
8 bis(2-Chloroethyl)Ether	63	4.519	4.525 (0.925)		53982	38.8446	2600
10 2-Chlorophenol	128	4.620	4.621 (0.945)		91005	45.7455	3000
11 1,3-Dichlorobenzene	146	4.818	4.819 (0.986)		77970	43.2135	2900
* 12 1,4-Dichlorobenzene-d4	152	4.887	4.888 (1.000)		53088	40.0000	
13 1,4-Dichlorobenzene	146	4.909	4.910 (1.004)		79811	42.5146	2800
15 Benzyl Alcohol	108	5.064	5.065 (1.036)		63845	36.9660	2500
16 1,2-Dichlorobenzene	146	5.106	5.107 (1.045)		77171	40.8879	2700
17 2-Methylphenol	108	5.224	5.225 (1.069)		91500	40.1660	2700
18 2,2'-oxybis(1-Chloropropane)	45	5.240	5.241 (1.072)		121979	36.7172	2400
99 Acetophenone	105	5.395	5.390 (1.104)		117693	31.6708	2100
19 N-Nitroso-di-n-propylamine	70	5.395	5.396 (1.104)		62427	34.0259	2300
20 4-Methylphenol	108	5.422	5.428 (1.109)		102419	38.8537	2600

						CONCENTRATIONS		
		QUANT SIG					ON- COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/Kg)	
=====	=====	=====	=====	=====	=====	=====	=====	
21 Hexachloroethane	117	5.523	5.524	(1.130)	26079	43.0821	2900	
\$ 22 Nitrobenzene-d5	82	5.576	5.577	(0.871)	84729	50.5914	3400(R)	
23 Nitrobenzene	77	5.598	5.599	(0.875)	87513	49.7736	3300	
24 Isophorone	82	5.881	5.882	(0.919)	175867	39.9884	2700	
25 2-Nitrophenol	139	5.977	5.978	(0.934)	48753	58.4533	3900(R)	
26 2,4-Dimethylphenol	107	6.052	6.053	(0.946)	96421	51.9244	3500	
27 bis(2-Chloroethoxy)methane	93	6.143	6.143	(0.960)	108970	43.6298	2900	
28 Benzoic Acid	105	6.180	6.149	(0.966)	142238	90.3129	6000(A)	
29 2,4-Dichlorophenol	162	6.265	6.266	(0.979)	88625	50.5360	3400	
30 1,2,4-Trichlorobenzene	180	6.340	6.346	(0.991)	72603	44.2163	2900	
* 31 Naphthalene-d8	136	6.399	6.400	(1.000)	243821	40.0000		
32 Naphthalene	128	6.426	6.421	(1.004)	270728	44.3728	3000	
33 4-Chloroaniline	127	6.495	6.496	(1.015)	97004	30.7991	2000	
34 Hexachlorobutadiene	225	6.570	6.571	(1.027)	37678	48.9173	3300	
102 Caprolactam	113	6.842	6.832	(1.069)	55709	36.7498	2400	
35 4-Chloro-3-Methylphenol	107	7.024	7.025	(1.098)	109987	43.6765	2900	
36 2-Methylnaphthalene	142	7.136	7.137	(1.115)	204502	41.2932	2800	
114 1-Methylnaphthalene	142	7.232	7.233	(1.130)	196310	40.6343	2700	
38 Hexachlorocyclopentadiene	237	7.296	7.302	(0.900)	31960	53.8098	3600	
112 1,2,4,5-Tetrachlorobenzene	216	7.302	7.302	(0.901)	99319	54.9224	3700	
39 2,4,6-Trichlorophenol	196	7.424	7.420	(0.916)	72971	52.5397	3500	
40 2,4,5-Trichlorophenol	196	7.462	7.463	(0.920)	79275	49.2101	3300	
\$ 41 2-Fluorobiphenyl	172	7.494	7.495	(0.924)	231223	47.0067	3100	
98 1,1'-Biphenyl	154	7.585	7.585	(0.935)	255155	43.6071	2900	
42 2-Chloronaphthalene	162	7.601	7.602	(0.937)	198876	47.2407	3100	
43 2-Nitroaniline	65	7.702	7.703	(0.950)	70482	52.5629	3500	
44 Dimethylphthalate	163	7.862	7.863	(0.970)	292037	44.9318	3000	
45 2,6-Dinitrotoluene	165	7.916	7.917	(0.976)	74582	56.7674	3800(R)	
46 Acenaphthylene	152	7.980	7.981	(0.984)	372032	45.6201	3000	
47 3-Nitroaniline	138	8.071	8.072	(0.995)	82347	42.4264	2800	
* 48 Acenaphthene-d10	164	8.108	8.109	(1.000)	190896	40.0000		
49 Acenaphthene	153	8.135	8.136	(1.003)	229228	45.6957	3000	
50 2,4-Dinitrophenol	184	8.156	8.157	(1.006)	38130	98.3711	6600(AQR)	
51 4-Nitrophenol	109	8.242	8.248	(1.016)	45361	51.2713	3400	
53 2,4-Dinitrotoluene	165	8.268	8.269	(1.020)	109053	56.9832	3800	
52 Dibenzofuran	168	8.284	8.285	(1.022)	339102	44.8987	3000	
110 2,3,4,6-Tetrachlorophenol	232	8.402	8.403	(1.036)	82770	46.5689	3100	
54 Diethylphthalate	149	8.477	8.477	(1.045)	293883	42.8514	2800	
56 4-Chlorophenyl-phenylether	204	8.578	8.579	(1.058)	135358	45.2217	3000	
55 Fluorene	166	8.583	8.584	(1.059)	303726	45.0680	3000	
57 4-Nitroaniline	138	8.605	8.606	(1.061)	111743	46.8315	3100	
58 4,6-Dinitro-2-methylphenol	198	8.621	8.622	(0.919)	69597	87.3543	5800(AR)	
59 N-Nitrosodiphenylamine	169	8.680	8.680	(0.925)	279915	48.4047	3200	
97 Azobenzene	77	8.712	8.712	(0.928)	270213	46.3943	3100	
\$ 60 2,4,6-Tribromophenol	330	8.797	8.798	(0.937)	44004	57.2769	3800	
61 4-Bromophenyl-phenylether	248	8.995	8.996	(0.958)	84804	47.3986	3200	
62 Hexachlorobenzene	284	9.059	9.060	(0.965)	92269	47.6518	3200	
100 Atrazine	200	9.123	9.124	(0.972)	98821	50.5348	3400	
63 Pentachlorophenol	266	9.230	9.231	(0.983)	71495	50.5017	3400	
111 Pentachloronitrobenzene	237	9.235	9.236	(0.984)	40075	55.7586	3700	
* 64 Phenanthrene-d10	188	9.385	9.385	(1.000)	444229	40.0000		
65 Phenanthrene	178	9.401	9.401	(1.002)	498003	47.4144	3200	
66 Anthracene	178	9.443	9.444	(1.006)	503682	47.3962	3200	
67 Carbazole	167	9.577	9.578	(1.020)	564155	47.7247	3200	

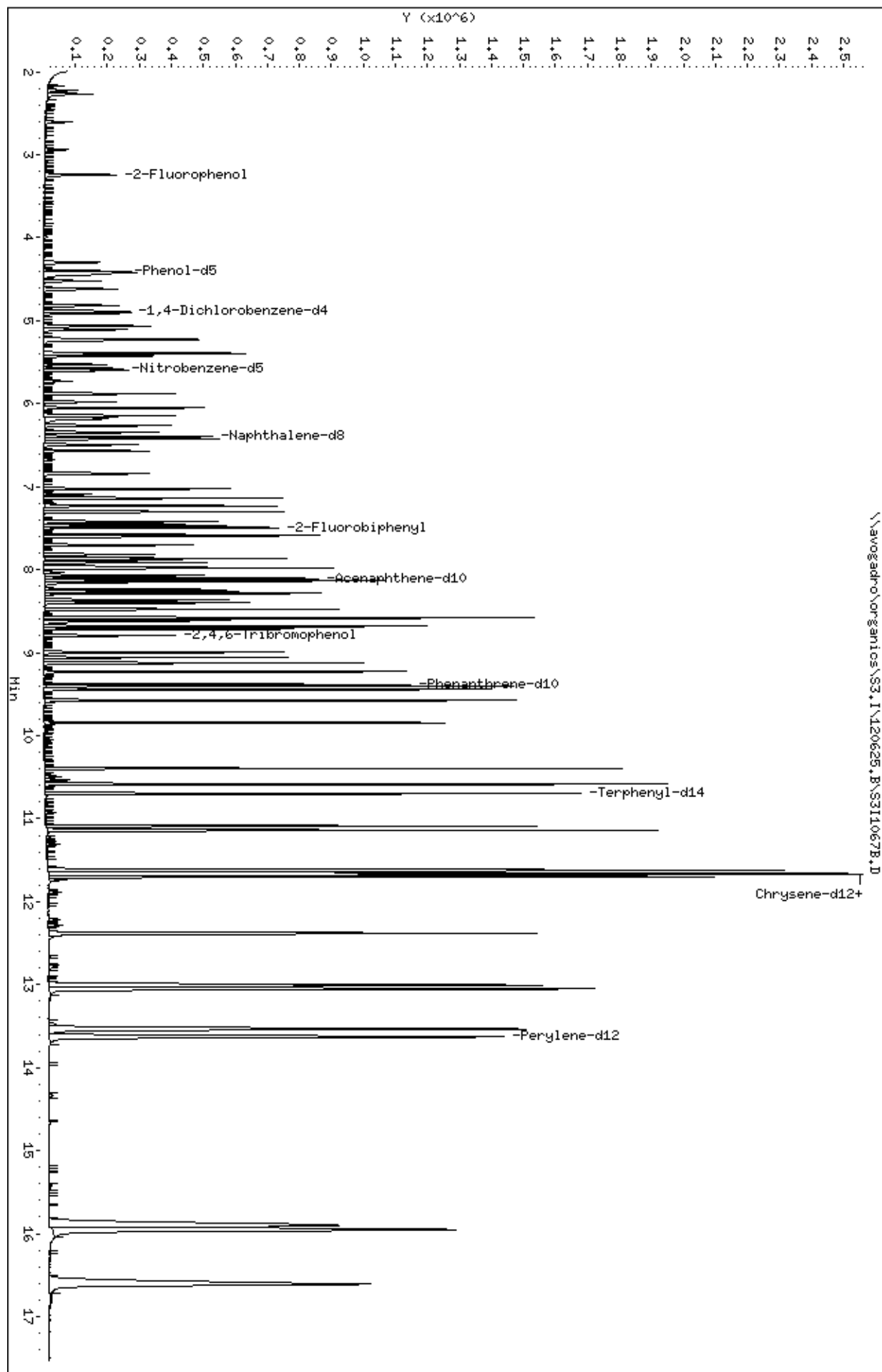
						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
	68 Di-n-butylphthalate	149	9.844	9.845	(1.049)	564299	44.4094	3000	
	69 Fluoranthene	202	10.394	10.400	(1.108)	670313	46.9500	3100	
	70 Benzidine	184	10.490	10.496	(0.899)	25981	4.74085	320(a)	
	71 Pyrene	202	10.586	10.593	(0.907)	700316	48.0059	3200	
\$	72 Terphenyl-d14	244	10.699	10.705	(0.917)	478027	46.4386	3100	
	73 Butylbenzylphthalate	149	11.094	11.100	(0.951)	338828	47.0755	3100	
	74 3,3'-Dichlorobenzidine	252	11.617	11.629	(0.995)	318963	48.1480	3200	
	78 bis(2-Ethylhexyl)phthalate	149	11.628	11.634	(0.996)	477845	45.0708	3000	
	75 Benzo(a)anthracene	228	11.655	11.666	(0.999)	858051	47.4873	3200	
*	76 Chrysene-d12	240	11.671	11.677	(1.000)	755571	40.0000		
	77 Chrysene	228	11.697	11.703	(1.002)	821185	48.2937	3200	
	79 Di-n-octylphthalate	149	12.381	12.392	(0.908)	902224	43.1904	2900	
	80 Benzo(b)fluoranthene	252	13.006	13.017	(0.954)	1030151	46.4901	3100	
	81 Benzo(k)fluoranthene	252	13.049	13.060	(0.957)	1078932	44.7163	3000	
	82 Benzo(a)pyrene	252	13.535	13.541	(0.993)	1030834	45.9954	3100	
*	83 Perylene-d12	264	13.631	13.642	(1.000)	934589	40.0000		
	84 Indeno(1,2,3-cd)pyrene	276	15.895	15.896	(1.166)	1468490	50.5900	3400	
	85 Dibenzo(a,h)anthracene	278	15.954	15.955	(1.170)	1215380	51.2019	3400	
	86 Benzo(g,h,i)perylene	276	16.611	16.607	(1.219)	1299706	51.2251	3400	

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.
- M - Compound response manually integrated.

Data File: \\avogadro\organics\S3.1\120625.B\S311067B.D
 Date : 25-JUN-2012 17:36
 Client ID: LCSD-66786
 Sample Info: LCSD-66786,LCSD-66786,66786
 Volume Injected (uL): 1.0
 Column phase: Rxi-5S11 MS

Instrument: S3.i
 Operator: PK SRC: LIMS
 Column diameter: 0.25



Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 06/18/2012 08:50

Prep End Date: 06/18/2012 12:38

Prep Batch ID: 66786

Prep Code: BNA_S_PR

Prep Type: SONC/SW3550B

Prep Factor Units:

mL / g

Technician: Timothy McDaniel

QC Matrix: NA2SO4 Solvent (1): MECL2
 QC Matrix Lot: 115711 Solvent (1) Lot: DF 570

Filter?: FILTER Solvent (2): ACE
 Filter Lot: FC003284 Solvent (2) Lot: 113161

Solvent (5): N/A Clean Up (1): N/A
 Solvent (5) Lot: N/A Clean Up (1) Lot: N/A

Solvent (6): N/A Clean Up (2): N/A
 Solvent (6) Lot: N/A Clean Up (2) Lot: N/A

Clean Up (3): N/A
 Clean Up (1) Lot: N/A

Clean Up (4): N/A
 Clean Up (4) Lot: N/A

Therm ID1: MT-88

Bath Temp1 (C): 87

Sonicator Tuned? Yes

Cycles/Hour: 0

Start Time: N/A

End Time: N/A

Mikem 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	CNCNTR Unit
MB-66786	BatchQC		15	1	OSW111221A	1			TMJJBW				06/18/12	JBW	R7	>11	<2	KD 1
LCS-66786	BatchQC		15	1	OSW111221A	1	OSW111222A	1	TMJJBW				06/18/12	JBW	R7			KD 1
LCSD-66786	BatchQC		15	1	OSW111221A	1	OSW111222A	1	TMJJBW				06/18/12	JBW	R7			KD 1
L1326-06B	GP-24 8-12	S	15.1	1	OSW111221A	1			TMJJBW		06/29/12	01	06/18/12	JBW	R7			KD 1

Timothy McDaniel 06/18/2012

Manager Reviewed

Date

Date

Analyst Reviewed

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

JW
6/18/12

Percent Moisture and Percent Solids Report

<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Analyzed</i>	<i>Percent Moisture</i>	<i>Percent Solids</i>	<i>Validated</i>
<i>L1326-03A</i>	<i>GP-21 22-23.8</i>	06/18/2012	11.554	88.446	Yes
<i>L1326-04A</i>	<i>GP-23 0-2</i>	06/15/2012	17.955	82.045	Yes
<i>L1326-06B</i>	<i>GP-24 8-12</i>	06/15/2012	18.414	81.586	Yes

Spectrum Analytical, Inc. RI Division S3 Injection Log
SemiVolatiles Laboratory
Internal Standard: ST 120103A
Comments: 21-1512064A
22
23
24
25
26
CU

Internal Standard: ST 120103A
Comments: 21-1512064A
22
23
24
25
26
CU

Reviewed By: _____ Manual Integration: MA MI Review: _____

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	DCB	NPT	ANT	PHN	CRY	PRY	NBZ	FBP	TPH	PHL	2FP	TBP	DCB	2CP	DILN	FLG	COMMENTS
S3I0950A	11:58	DFTFP3B																				
S3I0951B	13:22	SSTD0253B																				
S3I0952	13:47	SSTD0803B																				
S3I0953	14:13	SSTD0053B																				
S3I0954	14:39	SSTD0603B																				
S3I0955	15:04	SSTD0103B																				
S3I0956	15:30	SSTD0403B																				
S3I0957	15:56	SICV0253B																				
S3I0958	16:47	MB-66769																				
S3I0959	17:13	LCS-66769																				
S3I0960	17:38	LCS-66769																				
S3I0961	18:04	MB-66786																				
S3I0962	18:30	LCS-66786																				
S3I0963	18:56	LCS-66786																				
S3I0964	19:23	L1326-06B																				
S3I0965	19:49	L1323-11B																				

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

* Surrogate emulsion during prep - 500ml extracted
due to high sediment content - will RXTD
confirm

MA 6/17/12

Spectrum Analytical, Inc. RI Division S3 Injection Log
SemiVolatiles Laboratory
METHOD: 8220 ANALYST: MK BATCH: 120621.B Start: 21-JUN-12 17:07
ICAL DATE: 6/21/12 EMV: 2424 End: 21-JUN-12 20:13

Internal Standard: S120103A
Comments: C2 C3 C4 C5 C6 ICV
Inlet Maintenance By: MK
Liner : Clean
Column : Air
Inlet Seal: Clean
Septum : New

Reviewed By: MK
Manual Integration: MK
MI Review: 6/22/12

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	INTERNAL STANDARDS						SURROGATES						DIIN	FLG	COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limits
D - Surrogates are diluted

1 MK 6/22/12

Spectrum Analytical, Inc. RI Division S3 Injection Log
SemiVolatiles Laboratory
METHOD: 8270 ANALYST: PK BATCH: 120625.B Start: 25-JUN-12 10:47
ICAL DATE: 6/26/12 EMV: 2424 End: 25-JUN-12 18:54

Internal Standard: SD1003A Inlet Maintenance By: PK
Comments: Liner : Cleaned
Column : Chigress
Inlet Seal: Cleaned
Septum : New
Reviewed By: G. J. 11/2 Manual Integration: PK MI Review: G. J. 11/2
#8953 Time - SD1002214
L3-SW 120614C

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	INTERNAL STANDARDS										SURROGATES										COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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D - Surrogates are diluted

PK 6/26/12



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

*** Pesticide Organics ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave.

Laboratory Workorder / SDG #: L1326

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: SW3550

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%.

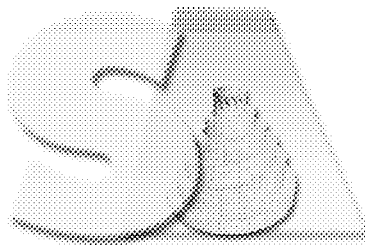
No other unusual occurrences were noted during sample analysis.

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.

A handwritten signature in black ink, appearing to be 'J. H. P.' or similar, written in a cursive style.

Signed: _____

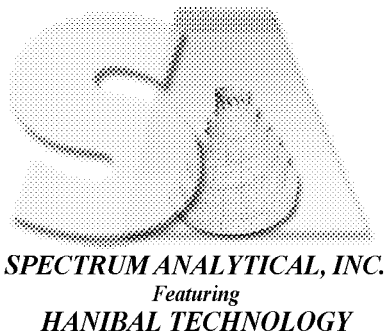
Date: _____ 6/29/2012 _____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	MB-66784	89	89	96	89			0
02	LCS-66784	87	86	95	87			0
03	LCSD-66784	88	87	100	92			0
04	GP-24 8-12	66	62	69	70			0

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

QC LIMITS
 (14-113)
 (55-130)

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

som111.10.27.A

3M - FORM III PEST-3
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCS-66784 LCS Lot No.: A079294
Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012
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	6.1666	92		60-125
beta-BHC	6.6670	6.7248	101		60-125
delta-BHC	6.6670	6.3342	95		55-130
gamma-BHC (Lindane)	6.6670	6.1576	92		60-125
Heptachlor	6.6670	6.3900	96		50-140
Aldrin	6.6670	6.0609	91		45-140
Heptachlor epoxide	6.6670	6.2033	93		65-130
Endosulfan I	6.6670	6.1004	92		15-135
Dieldrin	13.3330	12.8662	96		65-125
4,4'-DDE	13.3330	12.8650	96		70-125
Endrin	13.3330	12.1864	91		60-135
Endosulfan II	13.3330	12.3781	93		35-140
4,4'-DDD	13.3330	11.5980	87		30-135
Endosulfan sulfate	13.3330	13.0934	98		60-135
4,4'-DDT	13.3330	12.2834	92		45-140
Methoxychlor	66.6670	68.1547	102		55-145
Endrin ketone	13.3330	13.1642	99		65-135
Endrin aldehyde	13.3330	12.4891	94		35-145
alpha-Chlordane	6.6670	5.7978	87		65-120
gamma-Chlordane	6.6670	6.0764	91		65-125

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)
Date Analyzed (2): 06/18/2012

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC	#	QC LIMITS
alpha-BHC	6.6670	5.7264	86		60-125
beta-BHC	6.6670	5.5391	83		60-125
delta-BHC	6.6670	5.9520	89		55-130
gamma-BHC (Lindane)	6.6670	5.7274	86		60-125

COMMENTS:

3M - FORM III PEST-3
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCS-66784 LCS Lot No.: A079294
Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012

Heptachlor	6.6670	5.9179	89	50-140
Aldrin	6.6670	5.6524	85	45-140
Heptachlor epoxide	6.6670	5.6821	85	65-130
Endosulfan I	6.6670	5.3795	81	15-135
Dieldrin	13.3330	11.0785	83	65-125
4,4'-DDE	13.3330	11.1795	84	70-125
Endrin	13.3330	10.9754	82	60-135
Endosulfan II	13.3330	10.6638	80	35-140
4,4'-DDD	13.3330	10.7899	81	30-135
Endosulfan sulfate	13.3330	10.8216	81	60-135
4,4'-DDT	13.3330	10.7921	81	45-140
Methoxychlor	66.6670	58.2750	87	55-145
Endrin ketone	13.3330	11.3147	85	65-135
Endrin aldehyde	13.3330	11.1060	83	35-145
alpha-Chlordane	6.6670	5.2748	79	65-120
gamma-Chlordane	6.6670	5.7346	86	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:

3M - FORM III PEST-3
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

CLIENT SAMPLE NO.

LCSD-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCSD-66784 LCS Lot No.: A079294
Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012
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	6.3625	95	60-125	3.0	30
beta-BHC	6.6670	7.0001	105	60-125	4.0	30
delta-BHC	6.6670	6.6361	100	55-130	5.0	30
gamma-BHC (Lindane)	6.6670	6.4086	96	60-125	4.0	30
Heptachlor	6.6670	6.6188	99	50-140	3.0	30
Aldrin	6.6670	6.2862	94	45-140	3.0	30
Heptachlor epoxide	6.6670	6.4718	97	65-130	4.0	30
Endosulfan I	6.6670	6.3951	96	15-135	4.0	30
Dieldrin	13.3330	13.1683	99	65-125	3.0	30
4,4'-DDE	13.3330	13.3594	100	70-125	4.0	30
Endrin	13.3330	12.9200	97	60-135	6.0	30
Endosulfan II	13.3330	13.0046	98	35-140	5.0	30
4,4'-DDD	13.3330	12.2098	92	30-135	6.0	30
Endosulfan sulfate	13.3330	13.7260	103	60-135	5.0	30
4,4'-DDT	13.3330	12.8974	97	45-140	5.0	30
Methoxychlor	66.6670	71.3783	107	55-145	5.0	30
Endrin ketone	13.3330	13.6602	102	65-135	3.0	30
Endrin aldehyde	13.3330	13.2521	99	35-145	5.0	30
alpha-Chlordane	6.6670	6.1292	92	65-120	6.0	30
gamma-Chlordane	6.6670	6.5182	98	65-125	7.0	30

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)
Date Analyzed (2): 06/18/2012

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
alpha-BHC	6.6670	5.9066	89	60-125	3.0	30
beta-BHC	6.6670	5.8203	87	60-125	5.0	30
delta-BHC	6.6670	6.1690	93	55-130	4.0	30
gamma-BHC (Lindane)	6.6670	6.0019	90	60-125	5.0	30

COMMENTS:

3M - FORM III PEST-3
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

CLIENT SAMPLE NO.

LCSD-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Lab Sample ID: LCSD-66784 LCS Lot No.: A079294
 Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012

Heptachlor	6.6670	6.0665	91	50-140	2.0	30
Aldrin	6.6670	5.8292	87	45-140	2.0	30
Heptachlor epoxide	6.6670	5.8874	88	65-130	3.0	30
Endosulfan I	6.6670	5.5730	84	15-135	4.0	30
Dieldrin	13.3330	11.4461	86	65-125	4.0	30
4,4'-DDE	13.3330	11.6311	87	70-125	4.0	30
Endrin	13.3330	11.1711	84	60-135	2.0	30
Endosulfan II	13.3330	10.9818	82	35-140	2.0	30
4,4'-DDD	13.3330	11.2363	84	30-135	4.0	30
Endosulfan sulfate	13.3330	11.5633	87	60-135	7.0	30
4,4'-DDT	13.3330	11.0282	83	45-140	2.0	30
Methoxychlor	66.6670	61.3405	92	55-145	6.0	30
Endrin ketone	13.3330	11.7845	88	65-135	3.0	30
Endrin aldehyde	13.3330	11.7173	88	35-145	6.0	30
alpha-Chlordane	6.6670	5.4750	82	65-120	4.0	30
gamma-Chlordane	6.6670	5.9546	89	65-125	3.0	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:

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab File ID: E5H8775F.D / E5H8775R.D Lab Sample ID: MB-66784
Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/18/2012
Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Date Analyzed (1): 06/18/2012 Date Analyzed (2): 06/18/2012
Time Analyzed (1): 16:16 Time Analyzed (2): 16:16
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-66784	LCS-66784	06/18/2012	06/18/2012
02	LCSD-66784	LCSD-66784	06/18/2012	06/18/2012
03	GP-24 8-12	L1326-06B	06/18/2012	06/18/2012

COMMENTS:

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

GP-24 8-12

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1326-06B

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E5H8778F.D/E5H8778R.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/15/2012

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	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	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	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\120618F.B\E5H8778F.D
 Report Date: 19-Jun-2012 13:51

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8778F.D
 Lab Smp Id: L1326-06B Client Smp ID: GP-24 8-12
 Inj Date : 18-JUN-2012 16:59
 Operator : DL/GM SRC: LIMS Inst ID: E5.i
 Smp Info : L1326-06B,,66784,8081G.sub,,
 Misc Info : 2,,,1
 Comment :
 Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
 Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 8081G.sub
 Target Version: 4.14 Sample Matrix: SOIL
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

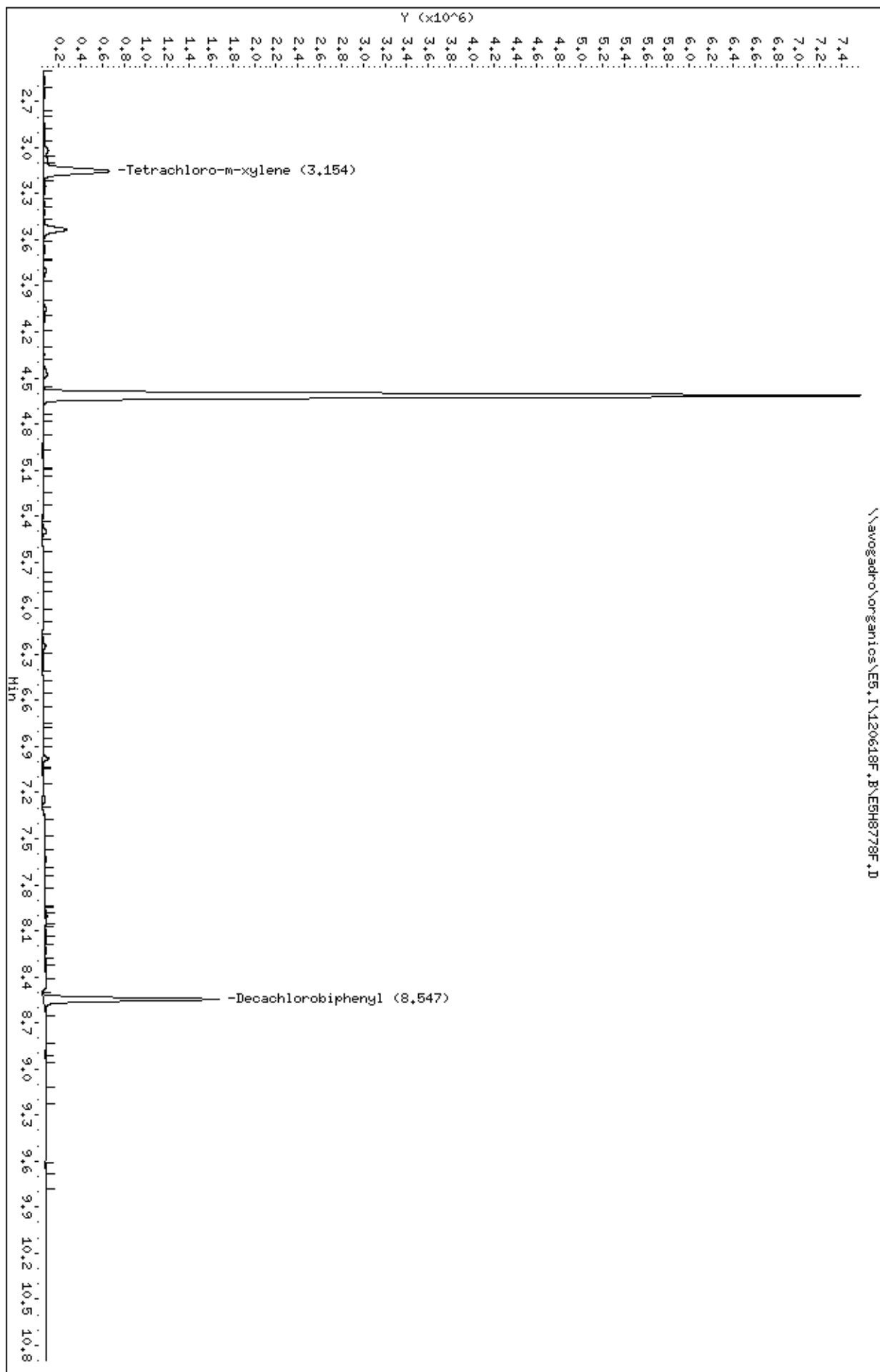
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.500	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ng)	(ug/Kg)	=====	=====
\$ 1					CAS #: 877-09-8	
3.153	3.150	0.003	1597591 0.03980	13		

\$ 2					CAS #: 2051-24-3	
8.546	8.544	0.002	2606762 0.08338	27		

Data File: \\avogadro\organics\ES,1\120618F,B\ESH8778F.D
Date : 18-JUN-2012 16:59
Client ID: GP-24 8-12
Sample Info: L1326-06B,66784,8081G,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: ES,i
Operator: DL/GH SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\120618R.B\E5H8778R.D
 Report Date: 19-Jun-2012 13:52

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8778R.D
 Lab Smp Id: L1326-06B Client Smp ID: GP-24 8-12
 Inj Date : 18-JUN-2012 16:59
 Operator : DL/GM SRC: LIMS Inst ID: E5.i
 Smp Info : L1326-06B,,66784,8081G.sub,,
 Misc Info : 2,,,1
 Comment :
 Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
 Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 8081G.sub
 Target Version: 4.14 Sample Matrix: SOIL
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

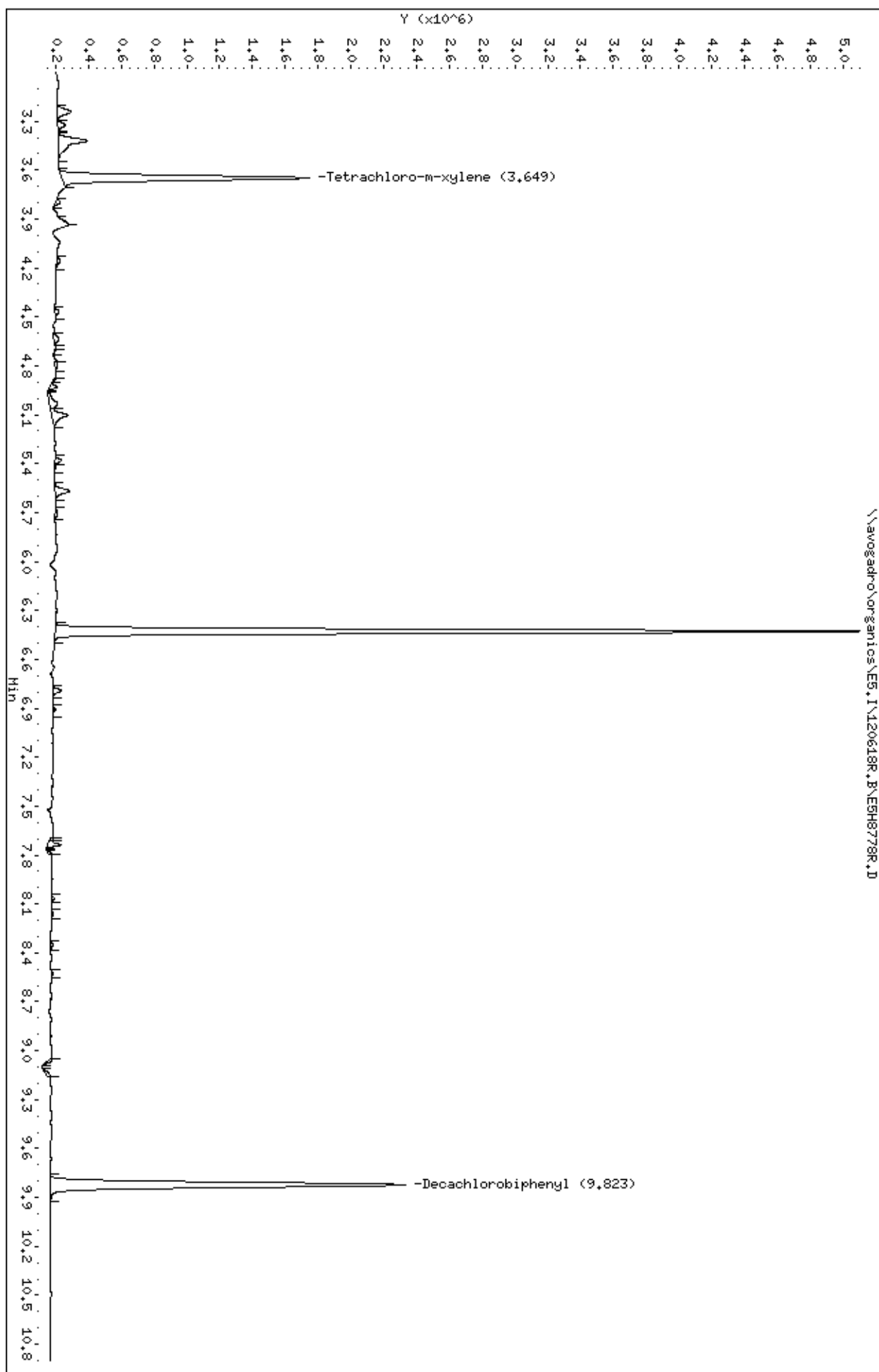
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.500	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.648	3.647	0.001	1504214	0.03719	12	

\$ 2					CAS #: 2051-24-3	
9.822	9.824	-0.002	4807063	0.08442	28	

Data File: \\avogadro\organics\ES.I\120618R.B\ESH8778R.D
Date : 18-JUN-2012 16:59
Client ID: GP-24 8-12
Sample Info: L1326-06B,66784,8081G,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: ES.i
Operator: DL/GH SRC: LIMS
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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 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: 06/11/2012 06/11/2012

COMPOUND	RT* OF STANDARDS					RT	RT WINDOW **	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	3.705	3.704	3.705	3.705	3.704	3.704	3.654	3.754
beta-BHC	4.093	4.091	4.093	4.091	4.092	4.092	4.042	4.142
delta-BHC	4.264	4.264	4.265	4.263	4.262	4.264	4.214	4.314
gamma-BHC (Lindane)	4.009	4.008	4.010	4.008	4.008	4.009	3.959	4.059
Heptachlor	4.470	4.470	4.471	4.470	4.469	4.470	4.420	4.520
Aldrin	4.770	4.769	4.770	4.769	4.768	4.769	4.719	4.819
Heptachlor epoxide	5.395	5.395	5.397	5.395	5.394	5.395	5.325	5.465
Endosulfan I	5.820	5.820	5.821	5.820	5.819	5.820	5.750	5.890
Dieldrin	6.085	6.084	6.085	6.084	6.082	6.084	6.014	6.154
4,4'-DDE	5.755	5.755	5.755	5.754	5.752	5.754	5.684	5.824
Endrin	6.345	6.345	6.346	6.345	6.342	6.345	6.275	6.415
Endosulfan II	6.590	6.590	6.591	6.588	6.587	6.589	6.519	6.659
4,4'-DDD	6.422	6.421	6.424	6.422	6.419	6.422	6.352	6.492
Endosulfan sulfate	7.430	7.429	7.430	7.429	7.426	7.429	7.359	7.499
4,4'-DDT	6.722	6.722	6.723	6.722	6.719	6.722	6.652	6.792
Methoxychlor	7.210	7.209	7.210	7.208	7.206	7.209	7.139	7.279
Endrin ketone	7.679	7.678	7.679	7.677	7.673	7.677	7.607	7.747
Endrin aldehyde	7.020	7.019	7.020	7.019	7.017	7.019	6.949	7.089
alpha-Chlordane	5.671	5.671	5.673	5.671	5.669	5.671	5.601	5.741
gamma-Chlordane	5.529	5.529	5.530	5.528	5.526	5.528	5.458	5.598
TCX (A)	3.149	3.149	3.150	3.149	3.151	3.149	3.099	3.199
DCB (A)	8.550	8.549	8.550	8.548	8.545	8.548	8.448	8.648

(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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 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: 06/11/2012 06/11/2012

COMPOUND	RT* OF STANDARDS					RT	RT WINDOW **	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	4.295	4.294	4.295	4.293	4.294	4.294	4.244	4.344
beta-BHC	4.754	4.754	4.754	4.753	4.753	4.754	4.704	4.804
delta-BHC	5.082	5.082	5.082	5.082	5.082	5.082	5.032	5.132
gamma-BHC (Lindane)	4.676	4.675	4.676	4.675	4.675	4.676	4.626	4.726
Heptachlor	5.170	5.169	5.170	5.169	5.169	5.169	5.119	5.219
Aldrin	5.542	5.542	5.542	5.543	5.541	5.542	5.492	5.592
Heptachlor epoxide	6.201	6.201	6.201	6.202	6.200	6.201	6.131	6.271
Endosulfan I	6.660	6.659	6.660	6.659	6.657	6.659	6.589	6.729
Dieldrin	6.951	6.951	6.951	6.951	6.949	6.951	6.881	7.021
4,4'-DDE	6.757	6.757	6.757	6.758	6.756	6.757	6.687	6.827
Endrin	7.259	7.259	7.260	7.259	7.257	7.259	7.189	7.329
Endosulfan II	7.457	7.457	7.458	7.457	7.455	7.457	7.387	7.527
4,4'-DDD	7.342	7.343	7.343	7.343	7.341	7.342	7.272	7.412
Endosulfan sulfate	7.998	7.998	7.998	7.998	7.995	7.997	7.927	8.067
4,4'-DDT	7.635	7.635	7.635	7.634	7.632	7.635	7.565	7.705
Methoxychlor	8.220	8.219	8.220	8.219	8.217	8.219	8.149	8.289
Endrin ketone	8.485	8.484	8.485	8.483	8.480	8.484	8.414	8.554
Endrin aldehyde	7.760	7.759	7.760	7.759	7.757	7.759	7.689	7.829
alpha-Chlordane	6.590	6.589	6.590	6.589	6.588	6.589	6.519	6.659
gamma-Chlordane	6.423	6.424	6.424	6.423	6.422	6.423	6.353	6.493
TCX (A)	3.648	3.648	3.649	3.648	3.647	3.648	3.598	3.698
DCB (A)	9.829	9.829	9.830	9.829	9.824	9.828	9.728	9.928

(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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 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): 06/11/2012 06/11/2012

CALIBRATION FACTORS (CFs)						
COMPOUND	CS1	CS2	CS3	CS4	CS5	% RSD
alpha-BHC	29684400	30274500	31595700	33242350	33321038	5.3
beta-BHC	25006600	24943400	24580350	24750850	24321813	1.1
delta-BHC	56090000	59255300	61310200	64345500	63862638	5.6
gamma-BHC (Lindane)	57875200	59011200	60792950	63221875	62886225	3.9
Heptachlor	57666400	58358700	59482500	60955175	59239550	2.1
Aldrin	53235400	54430300	55953800	57920600	56994700	3.4
Heptachlor epoxide	48981400	49447400	50205100	51131600	49426738	1.7
Endosulfan I	24121000	24309800	24600550	24857375	23631313	1.9
Dieldrin	49210900	50704950	50777500	51877513	49548425	2.1
4,4'-DDE	26537300	27226750	27540925	28809775	28003444	3.1
Endrin	26247700	26858900	26707625	26655600	24988875	2.9
Endosulfan II	40222300	40693150	40916625	41366913	40775925	1.0
4,4'-DDD	37707900	38839400	40244900	41847950	40881556	4.1
Endosulfan sulfate	34641300	34825950	34967725	36682163	35809813	2.4
4,4'-DDT	40500100	41532550	42406800	44180475	43376944	3.4
Methoxychlor	18510080	17887200	17353925	17666683	17265630	2.8
Endrin ketone	28355700	29502950	30414575	31489188	30222394	3.9
Endrin aldehyde	21394000	21427750	20942750	21541075	20519363	2.0
alpha-Chlordane	49841000	50144000	50067050	52136650	51671388	2.1
gamma-Chlordane	26349000	27043200	27952550	29071675	29134513	4.4
TCX (A)	39976000	39727900	39639500	40757500	40603063	1.3
DCB (A)	32018200	31307000	30461375	31525425	31011431	1.9

(A) Surrogate CFs and %RSD are measured from Standard Nixture A if two mixtures are used or from Standard mixture C if one mixture 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 mixture 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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 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): 06/11/2012 06/11/2012

CALIBRATION FACTORS (CFs)						
COMPOUND	CS1	CS2	CS3	CS4	CS5	% RSD
alpha-BHC	141237200	142784200	145479250	153814300	156782650	4.7
beta-BHC	53583400	52551100	52020800	52384325	52026900	1.2
delta-BHC	129038000	129768600	132294100	139506000	140504838	4.0
gamma-BHC (Lindane)	127845400	127912800	130284350	137085175	139293138	4.0
Heptachlor	128132000	128522800	127831450	133228300	130036650	1.7
Aldrin	121076600	120567600	120817100	124800800	124724738	1.8
Heptachlor epoxide	110267800	108327200	107452450	108842000	106310238	1.4
Endosulfan I	54768800	52872000	52752750	54820850	53126388	1.9
Dieldrin	99433600	99554100	100838925	104221313	101863894	1.9
4,4'-DDE	98233800	98548650	99922650	104875588	105023588	3.3
Endrin	56808100	57350750	57555725	58902775	56508213	1.6
Endosulfan II	72764400	72854700	73134200	75490363	76897563	2.5
4,4'-DDD	71989800	72370050	73532225	77603263	77174219	3.6
Endosulfan sulfate	58451200	58474100	59367750	62437988	62897619	3.6
4,4'-DDT	70906700	71073100	72365025	76503950	76862756	4.0
Methoxychlor	29828020	30351070	31503680	33361295	32396869	4.6
Endrin ketone	43739600	43538300	44078250	46144063	46602413	3.2
Endrin aldehyde	39194100	39303050	39102250	41404975	40646456	2.6
alpha-Chlordane	103721400	103113400	103501100	107429225	107657813	2.1
gamma-Chlordane	106398000	106017200	106652450	110592975	111529875	2.4
TCX (A)	40666200	39678500	39603000	41039525	41259813	1.9
DCB (A)	56767000	56490000	55883975	57974525	57603663	1.5

(A) Surrogate CFs and %RSD are measured from Standard Nixture A if two mixtures are used or from Standard mixture C if one mixture 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 mixture 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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Instrument ID (1): E5 Date(s) Analyzed (1): 06/11/2012 06/11/2012
 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

COMPOUND	PEAK ¹	RT OF STANDARDS					RT	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
TOXAPHENE	1	6.653	6.652	6.652	6.653	6.651	6.652	6.582	6.722
	2	6.996	6.994	6.995	6.996	6.994	6.995	6.925	7.065
	3	7.336	7.334	7.334	7.335	7.333	7.334	7.264	7.404
	4	7.386	7.384	7.384	7.384	7.382	7.384	7.314	7.454

Instrument ID (2): E5 Date(s) Analyzed (2): 06/11/2012 06/11/2012
 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

COMPOUND	PEAK ¹	RT OF STANDARDS					RT	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
TOXAPHENE	1	7.199	7.198	7.198	7.198	7.197	7.198	7.128	7.268
	2	7.533	7.533	7.532	7.533	7.532	7.533	7.463	7.603
	3	7.766	7.764	7.765	7.766	7.765	7.765	7.695	7.835
	4	8.262	8.261	8.262	8.262	8.261	8.261	8.191	8.331

¹At 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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Instrument ID (1): E5 Date(s) Analyzed (1): 06/11/2012 06/11/2012
 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	778860	735145	758912	790024	760094	2.8
	2	853438	816863	827838	870678	822631	2.7
	3	986212	943198	965449	1008717	978043	2.5
	4	988382	945085	972251	1019818	988922	2.8

Instrument ID (2): E5 Date(s) Analyzed (2): 06/11/2012 06/11/2012
 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	981198	921440	1011648	1112815	1090970	7.7
	2	2217194	2061818	2266958	2447603	2398325	6.7
	3	2089196	1952305	2167168	2380365	2306366	7.8
	4	1763526	1578489	1848564	2036737	1974236	9.8

¹At least three peaks for each column are required for identification of Toxaphene.

6Q - FORM VI PEST
TOXAPHENE INITIAL CALIBRATION (SINGLE POINT)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Instrument ID: E5 Date(s) Analyzed: 06/11/2012 06/11/2012
 GC Column: CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK ¹	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Chlordane (technical)	1	1	4.47	4.47	4.47	701399
		2	5.53	5.53	5.53	1746993
		3	5.66	5.66	5.66	2700475
		4				
		5				

¹ At least three peaks for each column are required for identification of multicomponent analytes.

6Q - FORM VI PEST
TOXAPHENE INITIAL CALIBRATION (SINGLE POINT)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Instrument ID: E5 Date(s) Analyzed: 06/11/2012 06/11/2012
 GC Column: CLPPestII ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK ¹	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Chlordane (technical)	1	1	6.42	6.42	6.42	1749417
		2	6.53	6.53	6.53	1258414
		3	6.59	6.59	6.59	1504168
		4				
		5				

¹ At least three peaks for each column are required for identification of multicomponent analytes.

7J - FORM VII PEST-1
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 06/11/2012 06/11/2012

EPA Sample No. (PIBLK##): _____ Date Analyzed: _____

Lab Sample ID (PIBLK): _____ Time Analyzed: _____

EPA Sample No. (PEM##): PEMM5 Date Analyzed: 06/11/2012

Lab Sample ID (PEM): PEMM5 Time Analyzed: 16:43

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	3.703	3.654	3.754	0.010	0.010	0.0
beta-BHC	4.091	4.042	4.142	0.010	0.010	0.0
gamma-BHC (Lindane)	4.008	3.959	4.059	0.010	0.010	0.0
Endrin	6.343	6.275	6.415	0.047	0.050	-6.0
4,4'-DDT	6.720	6.652	6.792	0.102	0.100	2.0
Methoxychlor	7.208	7.139	7.279	0.242	0.250	-3.2
TCX	3.149	3.099	3.199	0.019	0.020	-5.0
DCB	8.547	8.448	8.648	0.019	0.020	-5.0

4,4'-DDT %Breakdown (1): 0.6 Endrin %Breakdown (1): 3.0

Combined %Breakdown (1): 3.6

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 06/11/2012 06/11/2012

EPA Sample No. (PIBLK##): _____ Date Analyzed: _____

Lab Sample ID (PIBLK): _____ Time Analyzed: _____

EPA Sample No. (PEM##): PEMM5 Date Analyzed: 06/11/2012

Lab Sample ID (PEM): PEMM5 Time Analyzed: 16:43

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.293	4.244	4.344	0.010	0.010	0.0
beta-BHC	4.753	4.704	4.804	0.010	0.010	0.0
gamma-BHC (Lindane)	4.675	4.626	4.726	0.010	0.010	0.0
Endrin	7.257	7.189	7.329	0.047	0.050	-6.0
4,4'-DDT	7.633	7.565	7.705	0.102	0.100	2.0
Methoxychlor	8.218	8.149	8.289	0.249	0.250	-0.4
TCX	3.647	3.598	3.698	0.019	0.020	-5.0
DCB	9.826	9.728	9.928	0.019	0.020	-5.0

4,4'-DDT %Breakdown (1): 0.8 Endrin %Breakdown (1): 3.5

Combined %Breakdown (1): 4.3

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 06/11/2012 06/11/2012

EPA Sample No. (PIBLK##): PIBLKML Date Analyzed: 06/18/2012

Lab Sample ID (PIBLK): PIBLKML Time Analyzed: 14:28

EPA Sample No. (PEM##): PEMML Date Analyzed: 06/18/2012

Lab Sample ID (PEM): PEMML Time Analyzed: 15:33

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	3.714	3.654	3.754	0.010	0.010	0.0
beta-BHC	4.103	4.042	4.142	0.010	0.010	0.0
gamma-BHC (Lindane)	4.019	3.959	4.059	0.010	0.010	0.0
Endrin	6.353	6.275	6.415	0.049	0.050	-2.0
4,4'-DDT	6.729	6.652	6.792	0.103	0.100	3.0
Methoxychlor	7.216	7.139	7.279	0.257	0.250	2.8
TCX	3.163	3.099	3.199	0.020	0.020	0.0
DCB	8.555	8.448	8.648	0.020	0.020	0.0

4,4'-DDT %Breakdown (1): 1.7 Endrin %Breakdown (1): 3.4

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 06/11/2012 06/11/2012

EPA Sample No. (PIBLK##): PIBLKML Date Analyzed: 06/18/2012

Lab Sample ID (PIBLK): PIBLKML Time Analyzed: 14:28

EPA Sample No. (PEM##): PEMML Date Analyzed: 06/18/2012

Lab Sample ID (PEM): PEMML Time Analyzed: 15:33

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.298	4.244	4.344	0.010	0.010	0.0
beta-BHC	4.757	4.704	4.804	0.010	0.010	0.0
gamma-BHC (Lindane)	4.678	4.626	4.726	0.010	0.010	0.0
Endrin	7.260	7.189	7.329	0.043	0.050	-14.0
4,4'-DDT	7.636	7.565	7.705	0.090	0.100	-10.0
Methoxychlor	8.220	8.149	8.289	0.242	0.250	-3.2
TCX	3.652	3.598	3.698	0.021	0.020	5.0
DCB	9.830	9.728	9.928	0.018	0.020	-10.0

4,4'-DDT %Breakdown (1): 1.0 Endrin %Breakdown (1): 3.0

Combined %Breakdown (1): 4.0

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 06/11/2012 06/11/2012

EPA Sample No. (PIBLK##): PIBLKMM Date Analyzed: 06/18/2012

Lab Sample ID (PIBLK): PIBLKMM Time Analyzed: 18:11

EPA Sample No. (PEM##): PEMMM Date Analyzed: 06/18/2012

Lab Sample ID (PEM): PEMMM Time Analyzed: 18:25

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	3.708	3.654	3.754	0.011	0.010	10.0
beta-BHC	4.094	4.042	4.142	0.011	0.010	10.0
gamma-BHC (Lindane)	4.011	3.959	4.059	0.011	0.010	10.0
Endrin	6.341	6.275	6.415	0.050	0.050	0.0
4,4'-DDT	6.718	6.652	6.792	0.104	0.100	4.0
Methoxychlor	7.206	7.139	7.279	0.266	0.250	6.4
TCX	3.156	3.099	3.199	0.021	0.020	5.0
DCB	8.546	8.448	8.648	0.021	0.020	5.0

4,4'-DDT %Breakdown (1): 2.6 Endrin %Breakdown (1): 4.8

Combined %Breakdown (1): 7.4

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7J - FORM VII PEST-1
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
GC Column: <u>CLPPestII</u> ID: <u>0.53</u> (mm)	Calibration Date(s): <u>06/11/2012</u> <u>06/11/2012</u>
EPA Sample No. (PIBLK##): <u>PIBLKMM</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (PIBLK): <u>PIBLKMM</u>	Time Analyzed: <u>18:11</u>
EPA Sample No. (PEM##): <u>PEMMM</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (PEM): <u>PEMMM</u>	Time Analyzed: <u>18:25</u>

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.294	4.244	4.344	0.010	0.010	0.0
beta-BHC	4.752	4.704	4.804	0.010	0.010	0.0
gamma-BHC (Lindane)	4.674	4.626	4.726	0.010	0.010	0.0
Endrin	7.255	7.189	7.329	0.045	0.050	-10.0
4,4'-DDT	7.630	7.565	7.705	0.093	0.100	-7.0
Methoxychlor	8.214	8.149	8.289	0.239	0.250	-4.4
TCX	3.650	3.598	3.698	0.020	0.020	0.0
DCB	9.821	9.728	9.928	0.019	0.020	-5.0

4,4'-DDT %Breakdown (1): 1.9 Endrin %Breakdown (1): 3.6

Combined %Breakdown (1): 5.5

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

7L - FORM VII PEST-3
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
GC Column: <u>CLPPest</u> ID: <u>0.53</u> (mm)	Calibration Date(s): <u>06/11/2012</u> <u>06/11/2012</u>
EPA Sample No. (PIBLK##): <u>PIBLKML</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (PIBLK): <u>PIBLKML</u>	Time Analyzed: <u>14:28</u>
EPA Sample No. (INDC3##): <u>INDC3ML</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (INDC3): <u>INDC3ML</u>	Time Analyzed: <u>15:08</u>

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		— CF	CF	%D
		FROM	TO			
alpha-BHC	3.716	3.654	3.754	31623598.000	32659250.000	3.3
beta-BHC	4.103	4.042	4.142	24720603.000	23826750.000	-3.6
delta-BHC	4.275	4.214	4.314	60972728.000	62681800.000	2.8
gamma-BHC (Lindane)	4.019	3.959	4.059	60757490.000	60755700.000	0.0
Heptachlor	4.480	4.420	4.520	59140465.000	60207300.000	1.8
Aldrin	4.779	4.719	4.819	55706960.000	55255250.000	-0.8
Heptachlor epoxide	5.405	5.325	5.465	49838448.000	49837400.000	0.0
Endosulfan I	5.829	5.750	5.890	24304008.000	24412850.000	0.4
Dieldrin	6.093	6.014	6.154	50423858.000	49888700.000	-1.1
4,4'-DDE	5.763	5.684	5.824	27623639.000	28553475.000	3.4
Endrin	6.353	6.275	6.415	26291740.000	27004650.000	2.7
Endosulfan II	6.596	6.519	6.659	40794983.000	40145500.000	-1.6
4,4'-DDD	6.430	6.352	6.492	39904341.000	40500100.000	1.5
Endosulfan sulfate	7.435	7.359	7.499	35385390.000	33864700.000	-4.3
4,4'-DDT	6.729	6.652	6.792	42399374.000	40207600.000	-5.2
Methoxychlor	7.216	7.139	7.279	17736704.000	17741545.000	0.0
Endrin ketone	7.683	7.607	7.747	29996961.000	29814525.000	-0.6
Endrin aldehyde	7.026	6.949	7.089	21164988.000	20366000.000	-3.8
alpha-Chlordane	5.680	5.601	5.741	50772018.000	49093600.000	-3.3
gamma-Chlordane	5.537	5.458	5.598	27910188.000	27432850.000	-1.7
TCX	3.161	3.099	3.199	40140793.000	40091600.000	-0.1
DCB	8.557	8.448	8.648	31264686.000	30382550.000	-2.8

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
GC Column: <u>CLPPestII</u> ID: <u>0.53</u> (mm)	Calibration Date(s): <u>06/11/2012</u> <u>06/11/2012</u>
EPA Sample No. (PIBLK##): <u>PIBLKML</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (PIBLK): <u>PIBLKML</u>	Time Analyzed: <u>14:28</u>
EPA Sample No. (INDC3##): <u>INDC3ML</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (INDC3): <u>INDC3ML</u>	Time Analyzed: <u>15:08</u>

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		— CF	CF	%D
		FROM	TO			
alpha-BHC	4.298	4.244	4.344	148019520.000	146205050.000	-1.2
beta-BHC	4.758	4.704	4.804	52513305.000	51663650.000	-1.6
delta-BHC	5.086	5.032	5.132	134222308.000	129845350.000	-3.3
gamma-BHC (Lindane)	4.679	4.626	4.726	132484173.000	128675900.000	-2.9
Heptachlor	5.173	5.119	5.219	129550240.000	122957650.000	-5.1
Aldrin	5.545	5.492	5.592	122397368.000	113831750.000	-7.0
Heptachlor epoxide	6.204	6.131	6.271	108239938.000	98082050.000	-9.4
Endosulfan I	6.660	6.589	6.729	53668158.000	47307800.000	-11.9
Dieldrin	6.952	6.881	7.021	101182366.000	88141225.000	-12.9
4,4'-DDE	6.758	6.687	6.827	101320855.000	89002625.000	-12.2
Endrin	7.260	7.189	7.329	57425113.000	50063075.000	-12.8
Endosulfan II	7.458	7.387	7.527	74228245.000	62711400.000	-15.5
4,4'-DDD	7.343	7.272	7.412	74533911.000	64056725.000	-14.1
Endosulfan sulfate	7.998	7.927	8.067	60325731.000	51299000.000	-15.0
4,4'-DDT	7.636	7.565	7.705	73542306.000	60401750.000	-17.9
Methoxychlor	8.220	8.149	8.289	31488187.000	29089000.000	-7.6
Endrin ketone	8.484	8.414	8.554	44820525.000	39573450.000	-11.7
Endrin aldehyde	7.760	7.689	7.829	39930166.000	33233175.000	-16.8
alpha-Chlordane	6.591	6.519	6.659	105084588.000	91123050.000	-13.3
gamma-Chlordane	6.425	6.353	6.493	108238100.000	95237300.000	-12.0
TCX	3.653	3.598	3.698	40449408.000	41725050.000	3.2
DCB	9.833	9.728	9.928	56943833.000	51468875.000	-9.6

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
GC Column: <u>CLPPest</u> ID: <u>0.53</u> (mm)	Calibration Date(s): <u>06/11/2012</u> <u>06/11/2012</u>
EPA Sample No. (PIBLK##): <u>PIBLKMM</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (PIBLK): <u>PIBLKMM</u>	Time Analyzed: <u>18:11</u>
EPA Sample No. (INDC3##): <u>INDC3MM</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (INDC3): <u>INDC3MM</u>	Time Analyzed: <u>18:40</u>

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		— CF	CF	%D
		FROM	TO			
alpha-BHC	3.709	3.654	3.754	31623598.000	34208200.000	8.2
beta-BHC	4.096	4.042	4.142	24720603.000	27026150.000	9.3
delta-BHC	4.266	4.214	4.314	60972728.000	67249750.000	10.3
gamma-BHC (Lindane)	4.011	3.959	4.059	60757490.000	66336750.000	9.2
Heptachlor	4.472	4.420	4.520	59140465.000	63886800.000	8.0
Aldrin	4.771	4.719	4.819	55706960.000	60648650.000	8.9
Heptachlor epoxide	5.396	5.325	5.465	49838448.000	54260850.000	8.9
Endosulfan I	5.821	5.750	5.890	24304008.000	26687500.000	9.8
Dieldrin	6.084	6.014	6.154	50423858.000	54014725.000	7.1
4,4'-DDE	5.755	5.684	5.824	27623639.000	30275125.000	9.6
Endrin	6.345	6.275	6.415	26291740.000	28045325.000	6.7
Endosulfan II	6.589	6.519	6.659	40794983.000	44144575.000	8.2
4,4'-DDD	6.421	6.352	6.492	39904341.000	44949425.000	12.6
Endosulfan sulfate	7.428	7.359	7.499	35385390.000	37490750.000	5.9
4,4'-DDT	6.721	6.652	6.792	42399374.000	42660650.000	0.6
Methoxychlor	7.208	7.139	7.279	17736704.000	18648715.000	5.1
Endrin ketone	7.676	7.607	7.747	29996961.000	32815125.000	9.4
Endrin aldehyde	7.019	6.949	7.089	21164988.000	22648900.000	7.0
alpha-Chlordane	5.671	5.601	5.741	50772018.000	54127550.000	6.6
gamma-Chlordane	5.529	5.458	5.598	27910188.000	30488350.000	9.2
TCX	3.155	3.099	3.199	40140793.000	44050250.000	9.7
DCB	8.548	8.448	8.648	31264686.000	33019325.000	5.6

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
GC Column: <u>CLPPestII</u> ID: <u>0.53</u> (mm)	Calibration Date(s): <u>06/11/2012</u> <u>06/11/2012</u>
EPA Sample No. (PIBLK##): <u>PIBLKMM</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (PIBLK): <u>PIBLKMM</u>	Time Analyzed: <u>18:11</u>
EPA Sample No. (INDC3##): <u>INDC3MM</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID (INDC3): <u>INDC3MM</u>	Time Analyzed: <u>18:40</u>

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		CF	CF	%D
		FROM	TO			
alpha-BHC	4.295	4.244	4.344	148019520.000	150990500.000	2.0
beta-BHC	4.754	4.704	4.804	52513305.000	54033650.000	2.9
delta-BHC	5.082	5.032	5.132	134222308.000	135396200.000	0.9
gamma-BHC (Lindane)	4.676	4.626	4.726	132484173.000	134967000.000	1.9
Heptachlor	5.169	5.119	5.219	129550240.000	127561450.000	-1.5
Aldrin	5.541	5.492	5.592	122397368.000	121569600.000	-0.7
Heptachlor epoxide	6.199	6.131	6.271	108239938.000	107116400.000	-1.0
Endosulfan I	6.656	6.589	6.729	53668158.000	52144400.000	-2.8
Dieldrin	6.948	6.881	7.021	101182366.000	97415625.000	-3.7
4,4'-DDE	6.755	6.687	6.827	101320855.000	98470000.000	-2.8
Endrin	7.256	7.189	7.329	57425113.000	54475350.000	-5.1
Endosulfan II	7.454	7.387	7.527	74228245.000	69412250.000	-6.5
4,4'-DDD	7.340	7.272	7.412	74533911.000	71460025.000	-4.1
Endosulfan sulfate	7.995	7.927	8.067	60325731.000	56279400.000	-6.7
4,4'-DDT	7.632	7.565	7.705	73542306.000	64954125.000	-11.7
Methoxychlor	8.217	8.149	8.289	31488187.000	29761700.000	-5.5
Endrin ketone	8.481	8.414	8.554	44820525.000	43253925.000	-3.5
Endrin aldehyde	7.757	7.689	7.829	39930166.000	35905825.000	-10.1
alpha-Chlordane	6.586	6.519	6.659	105084588.000	100529550.000	-4.3
gamma-Chlordane	6.421	6.353	6.493	108238100.000	104094050.000	-3.8
TCX	3.650	3.598	3.698	40449408.000	42861750.000	6.0
DCB	9.825	9.728	9.928	56943833.000	55364175.000	-2.8

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 06/11/2012 06/11/2012
 Instrument ID: E5

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>3.149</u>			DCB: <u>8.548</u>			
CLIENT	LAB	DATE	TIME	TCX	DCB	
SAMPLE NO.	File ID	ANALYZED	ANALYZED	RT #	RT #	
01	PEMM5	E5H8423F.D	6/11/2012	16:43	3.149	8.547
02	TOXAPH1M5	E5H8424F.D	6/11/2012	16:58	3.150	8.549
03	TOXAPH2M5	E5H8425F.D	6/11/2012	17:12	3.151	8.548
04	TOXAPH3M5	E5H8426F.D	6/11/2012	17:27	3.150	8.548
05	TOXAPH4M5	E5H8427F.D	6/11/2012	17:41	3.151	8.548
06	TOXAPH5M5	E5H8428F.D	6/11/2012	17:55	3.147	8.547
07	TC3M5	E5H8429F.D	6/11/2012	18:10	3.149	8.549
08	INDC1M5	E5H8430F.D	6/11/2012	18:24	3.149	8.550
09	INDC2M5	E5H8431F.D	6/11/2012	18:39	3.149	8.549
10	INDC3M5	E5H8432F.D	6/11/2012	18:53	3.150	8.550
11	INDC4M5	E5H8433F.D	6/11/2012	19:07	3.149	8.548
12	INDC5M5	E5H8434F.D	6/11/2012	19:22	3.151	8.545
13	INDC3ML	E5H8771F.D	6/18/2012	15:08	3.161	8.557
14	PEMML	E5H8772F.D	6/18/2012	15:33	3.163	8.555
15	TOXAPH3ML	E5H8773F.D	6/18/2012	15:47	3.155	8.553
16	MB-66784	E5H8775F.D	6/18/2012	16:16	3.155	8.548
17	LCS-66784	E5H8776F.D	6/18/2012	16:30	3.153	8.546
18	LCSD-66784	E5H8777F.D	6/18/2012	16:45	3.155	8.545
19	GP-24 8-12	E5H8778F.D	6/18/2012	16:59	3.154	8.547
20	PEMMM	E5H8784F.D	6/18/2012	18:25	3.156	8.546
21	INDC3MM	E5H8785F.D	6/18/2012	18:40	3.155	8.548
22	TOXAPH3MM	E5H8786F.D	6/18/2012	18:54	3.156	8.547

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 06/11/2012 06/11/2012
 Instrument ID: E5

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>3.648</u>			DCB: <u>9.828</u>			
CLIENT SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT
01 PEMM5	E5H8423R.D	6/11/2012	16:43	3.647		9.826
02 TOXAPH1M5	E5H8424R.D	6/11/2012	16:58	3.648		9.830
03 TOXAPH2M5	E5H8425R.D	6/11/2012	17:12	3.648		9.827
04 TOXAPH3M5	E5H8426R.D	6/11/2012	17:27	3.647		9.827
05 TOXAPH4M5	E5H8427R.D	6/11/2012	17:41	3.649		9.829
06 TOXAPH5M5	E5H8428R.D	6/11/2012	17:55	3.647		9.826
07 TC3M5	E5H8429R.D	6/11/2012	18:10	3.648		9.829
08 INDC1M5	E5H8430R.D	6/11/2012	18:24	3.648		9.829
09 INDC2M5	E5H8431R.D	6/11/2012	18:39	3.648		9.829
10 INDC3M5	E5H8432R.D	6/11/2012	18:53	3.649		9.830
11 INDC4M5	E5H8433R.D	6/11/2012	19:07	3.648		9.829
12 INDC5M5	E5H8434R.D	6/11/2012	19:22	3.647		9.824
13 INDC3ML	E5H8771R.D	6/18/2012	15:08	3.653		9.833
14 PEMML	E5H8772R.D	6/18/2012	15:33	3.652		9.830
15 TOXAPH3ML	E5H8773R.D	6/18/2012	15:47	3.651		9.831
16 MB-66784	E5H8775R.D	6/18/2012	16:16	3.650		9.825
17 LCS-66784	E5H8776R.D	6/18/2012	16:30	3.648		9.822
18 LCSD-66784	E5H8777R.D	6/18/2012	16:45	3.648		9.820
19 GP-24 8-12	E5H8778R.D	6/18/2012	16:59	3.649		9.823
20 PEMMM	E5H8784R.D	6/18/2012	18:25	3.650		9.821
21 INDC3MM	E5H8785R.D	6/18/2012	18:40	3.650		9.825
22 TOXAPH3MM	E5H8786R.D	6/18/2012	18:54	3.650		9.825

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

CLIENT SAMPLE NO.

LCS-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCS-66784 Date(s) Analyzed: 06/18/2012 06/18/2012
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		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	3.706	3.654	3.754	6.2	7.7
	2	4.292	4.244	4.344	5.7	
beta-BHC	1	4.092	4.042	4.142	6.7	21.4
	2	4.752	4.704	4.804	5.5	
delta-BHC	1	4.265	4.214	4.314	6.3	6.4
	2	5.079	5.032	5.132	6.0	
gamma-BHC (Lindane)	1	4.010	3.959	4.059	6.2	7.5
	2	4.673	4.626	4.726	5.7	
Heptachlor	1	4.469	4.420	4.520	6.4	8.0
	2	5.166	5.119	5.219	5.9	
Aldrin	1	4.767	4.719	4.819	6.1	7.2
	2	5.537	5.492	5.592	5.7	
Heptachlor epoxide	1	5.393	5.325	5.465	6.2	9.2
	2	6.197	6.131	6.271	5.7	
Endosulfan I	1	5.817	5.750	5.890	6.1	13.4
	2	6.653	6.589	6.729	5.4	
Dieldrin	1	6.080	6.014	6.154	13	16.1
	2	6.946	6.881	7.021	11	
4,4'-DDE	1	5.752	5.684	5.824	13	15.1
	2	6.752	6.687	6.827	11	
Endrin	1	6.341	6.275	6.415	12	11.0
	2	7.254	7.189	7.329	11	
Endosulfan II	1	6.586	6.519	6.659	12	16.1
	2	7.452	7.387	7.527	11	
4,4'-DDD	1	6.419	6.352	6.492	12	7.5
	2	7.337	7.272	7.412	11	
Endosulfan sulfate	1	7.426	7.359	7.499	13	21.0
	2	7.993	7.927	8.067	11	
4,4'-DDT	1	6.718	6.652	6.792	12	13.8
	2	7.630	7.565	7.705	11	
Methoxychlor	1	7.205	7.139	7.279	68	17.0
	2	8.214	8.149	8.289	58	
Endrin ketone	1	7.673	7.607	7.747	13	16.3
	2	8.478	8.414	8.554	11	

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

LCS-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Lab Sample ID: LCS-66784 Date(s) Analyzed: 06/18/2012 06/18/2012
 Instrument ID (1): E5 Instrument ID (2): E5
 GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

Endrin aldehyde	1	7.015	6.949	7.089	12	12.5
	2	7.755	7.689	7.829	11	
alpha-Chlordane	1	5.668	5.601	5.741	5.8	9.9
	2	6.583	6.519	6.659	5.3	
gamma-Chlordane	1	5.525	5.458	5.598	6.1	6.0
	2	6.418	6.353	6.493	5.7	

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

LCSD-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCSD-66784 Date(s) Analyzed: 06/18/2012 06/18/2012
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		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	3.706	3.654	3.754	6.4	7.7
	2	4.293	4.244	4.344	5.9	
beta-BHC	1	4.094	4.042	4.142	7.0	20.3
	2	4.752	4.704	4.804	5.8	
delta-BHC	1	4.265	4.214	4.314	6.6	7.6
	2	5.080	5.032	5.132	6.2	
gamma-BHC (Lindane)	1	4.010	3.959	4.059	6.4	6.8
	2	4.673	4.626	4.726	6.0	
Heptachlor	1	4.470	4.420	4.520	6.6	9.1
	2	5.166	5.119	5.219	6.1	
Aldrin	1	4.769	4.719	4.819	6.3	7.8
	2	5.537	5.492	5.592	5.8	
Heptachlor epoxide	1	5.393	5.325	5.465	6.5	9.9
	2	6.195	6.131	6.271	5.9	
Endosulfan I	1	5.818	5.750	5.890	6.4	14.8
	2	6.653	6.589	6.729	5.6	
Dieldrin	1	6.080	6.014	6.154	13	15.0
	2	6.945	6.881	7.021	11	
4,4'-DDE	1	5.751	5.684	5.824	13	14.9
	2	6.752	6.687	6.827	12	
Endrin	1	6.341	6.275	6.415	13	15.7
	2	7.254	7.189	7.329	11	
Endosulfan II	1	6.585	6.519	6.659	13	18.4
	2	7.451	7.387	7.527	11	
4,4'-DDD	1	6.419	6.352	6.492	12	8.7
	2	7.337	7.272	7.412	11	
Endosulfan sulfate	1	7.425	7.359	7.499	14	18.7
	2	7.992	7.927	8.067	12	
4,4'-DDT	1	6.717	6.652	6.792	13	17.0
	2	7.630	7.565	7.705	11	
Methoxychlor	1	7.204	7.139	7.279	71	16.4
	2	8.214	8.149	8.289	61	
Endrin ketone	1	7.673	7.607	7.747	14	15.9
	2	8.478	8.414	8.554	12	

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

LCSD-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Lab Sample ID: LCSD-66784 Date(s) Analyzed: 06/18/2012 06/18/2012

Instrument ID (1): E5 Instrument ID (2): E5

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

Endrin aldehyde	1	7.015	6.949	7.089	13	13.1
	2	7.755	7.689	7.829	12	
alpha-Chlordane	1	5.668	5.601	5.741	6.1	11.9
	2	6.584	6.519	6.659	5.5	
gamma-Chlordane	1	5.525	5.458	5.598	6.5	9.5
	2	6.418	6.353	6.493	6.0	

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8424F.D
 Lab Smp Id: TOXAPH1M5 Client Smp ID: TOXAPH1M5
 Inj Date : 11-JUN-2012 16:58
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : TOXAPH1M5, TOXAPH1M5,, somtox.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
 Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 16:58 Cal File: E5H8424F.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: somtox.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

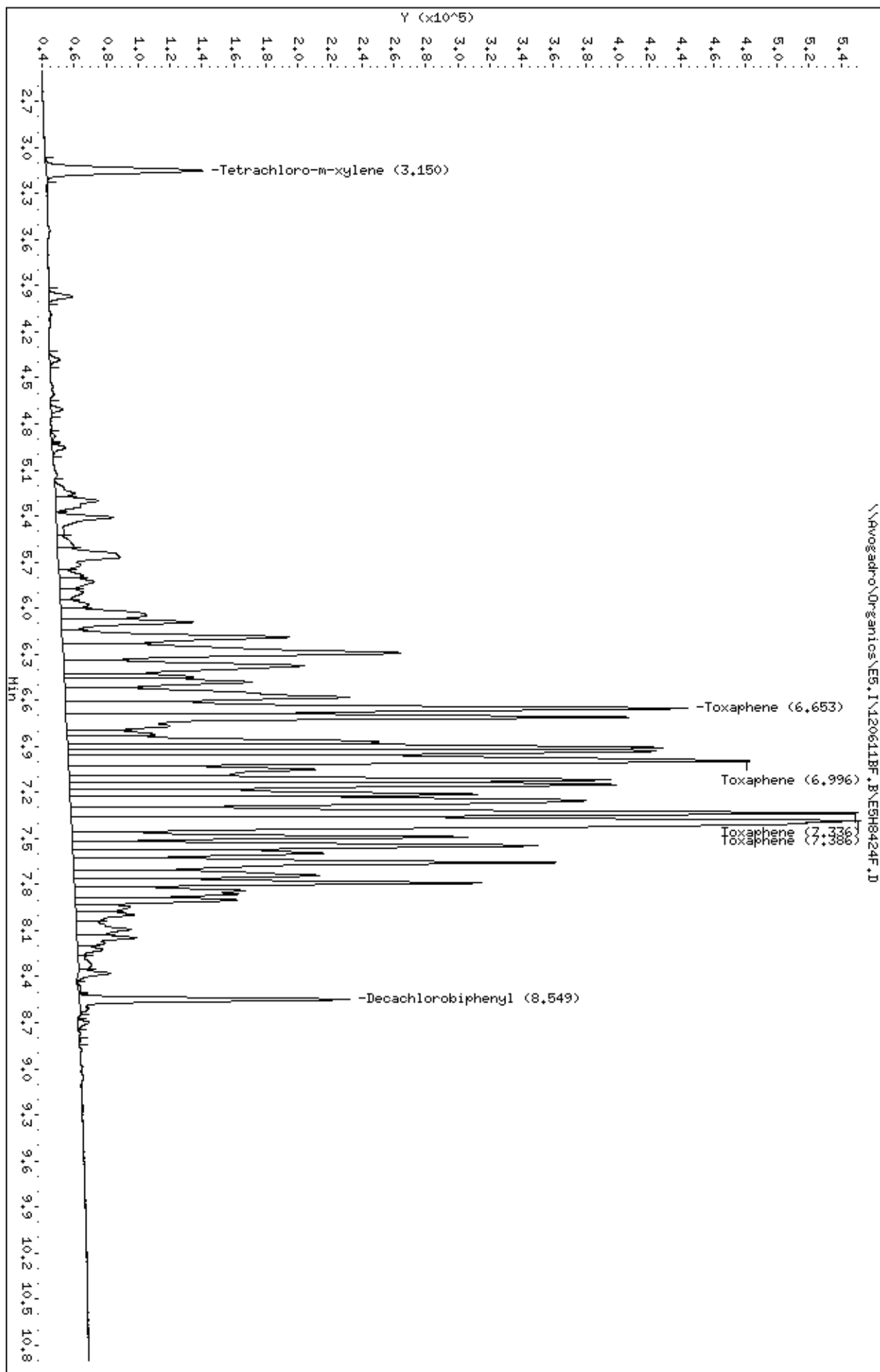
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.149	3.150	-0.001	252400	0.00500		(a)
\$ 2					CAS #: 2051-24-3	
8.549	8.544	0.005	295719	0.01000		(a)
28					CAS #: 8001-35-2	
6.653	6.651	0.002	389430	0.50000	0.50 80.00- 120.00	100.00(a)
6.995	6.993	0.002	426719	0.50000	0.50 88.23- 128.23	109.58
7.335	7.333	0.002	493106	0.50000	0.50 108.67- 148.67	126.62
7.385	7.382	0.003	494191	0.50000	0.50 110.11- 150.11	126.90
Average of Peak Amounts =			0.50000			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8424F.D
 Date : 11-JUN-2012 16:58
 Client ID: TOXAPH1M5
 Sample Info: TOXAPH1M5, sontox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8424R.D
Lab Smp Id: TOXAPH1M5 Client Smp ID: TOXAPH1M5
Inj Date : 11-JUN-2012 16:58
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : TOXAPH1M5, TOXAPH1M5,, somtox.sub,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 16:58 Cal File: E5H8424R.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

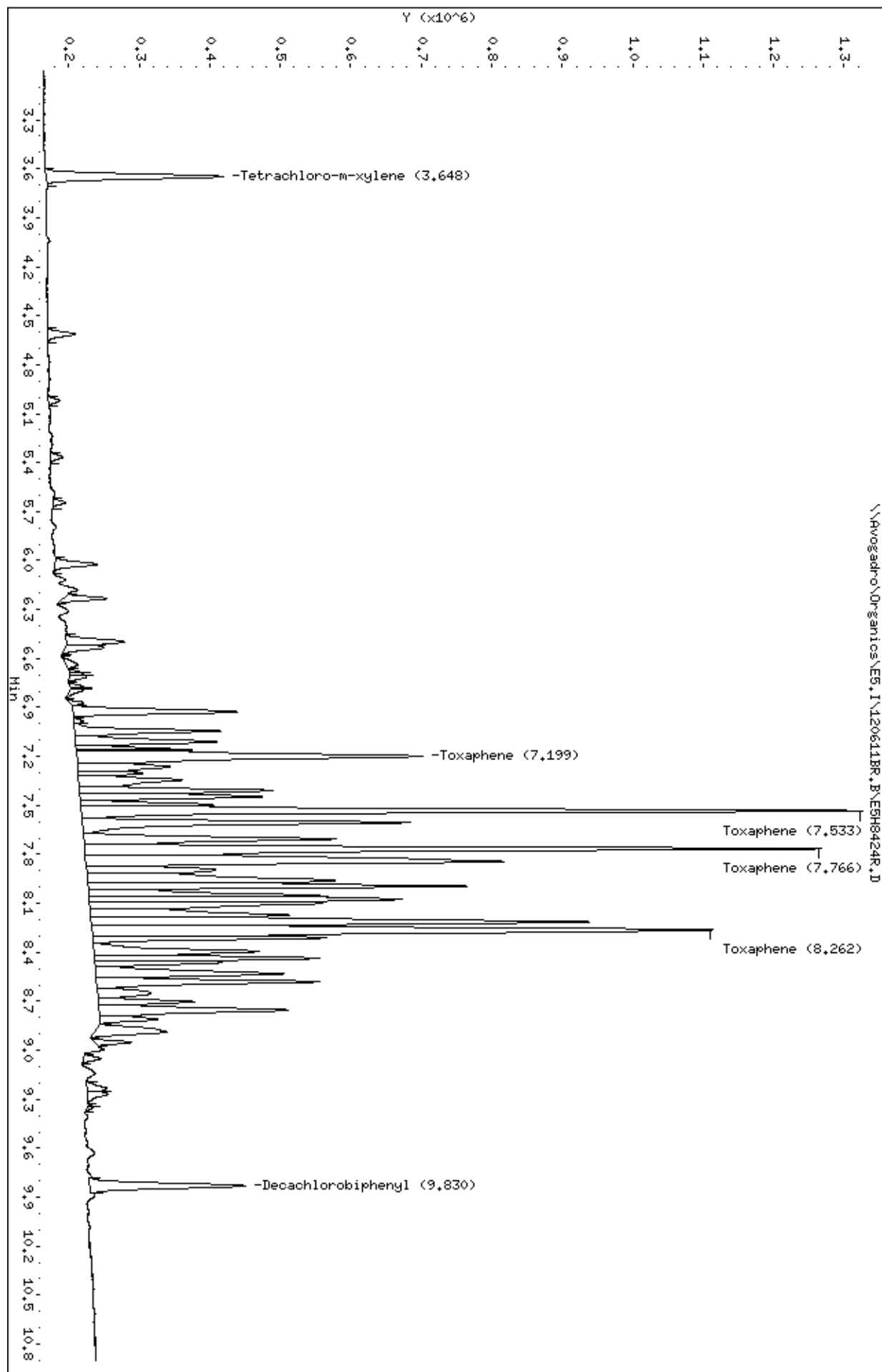
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.648	3.647	0.001	252309	0.00500		(a)
\$ 2					CAS #: 2051-24-3	
9.829	9.824	0.005	500753	0.01000		(a)
28					CAS #: 8001-35-2	
7.199	7.197	0.002	490599	0.50000	0.50 80.00- 120.00	100.00(a)
7.533	7.532	0.001	1108597	0.50000	0.50 199.83- 239.83	225.97
7.765	7.764	0.001	1044598	0.50000	0.50 191.41- 231.41	212.92
8.262	8.260	0.002	881763	0.50000	0.50 160.96- 200.96	179.73
Average of Peak Amounts =			0.50000			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8424R.D
Date : 11-JUN-2012 16:58
Client ID: TOXAPH11M5
Sample Info: TOXAPH11M5, sontox, sub,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: ES.i
Operator: DL SRC: DL
Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8425F.D
 Lab Smp Id: TOXAPH2M5 Client Smp ID: TOXAPH2M5
 Inj Date : 11-JUN-2012 17:12
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : TOXAPH2M5, TOXAPH2M5,, somtox.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
 Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 17:12 Cal File: E5H8425F.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: somtox.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.151	3.150	0.001	455954	0.01000		(a)

\$ 2	Decachlorobiphenyl		CAS #: 2051-24-3			
8.547	8.544	0.003	529960	0.02000		(a)

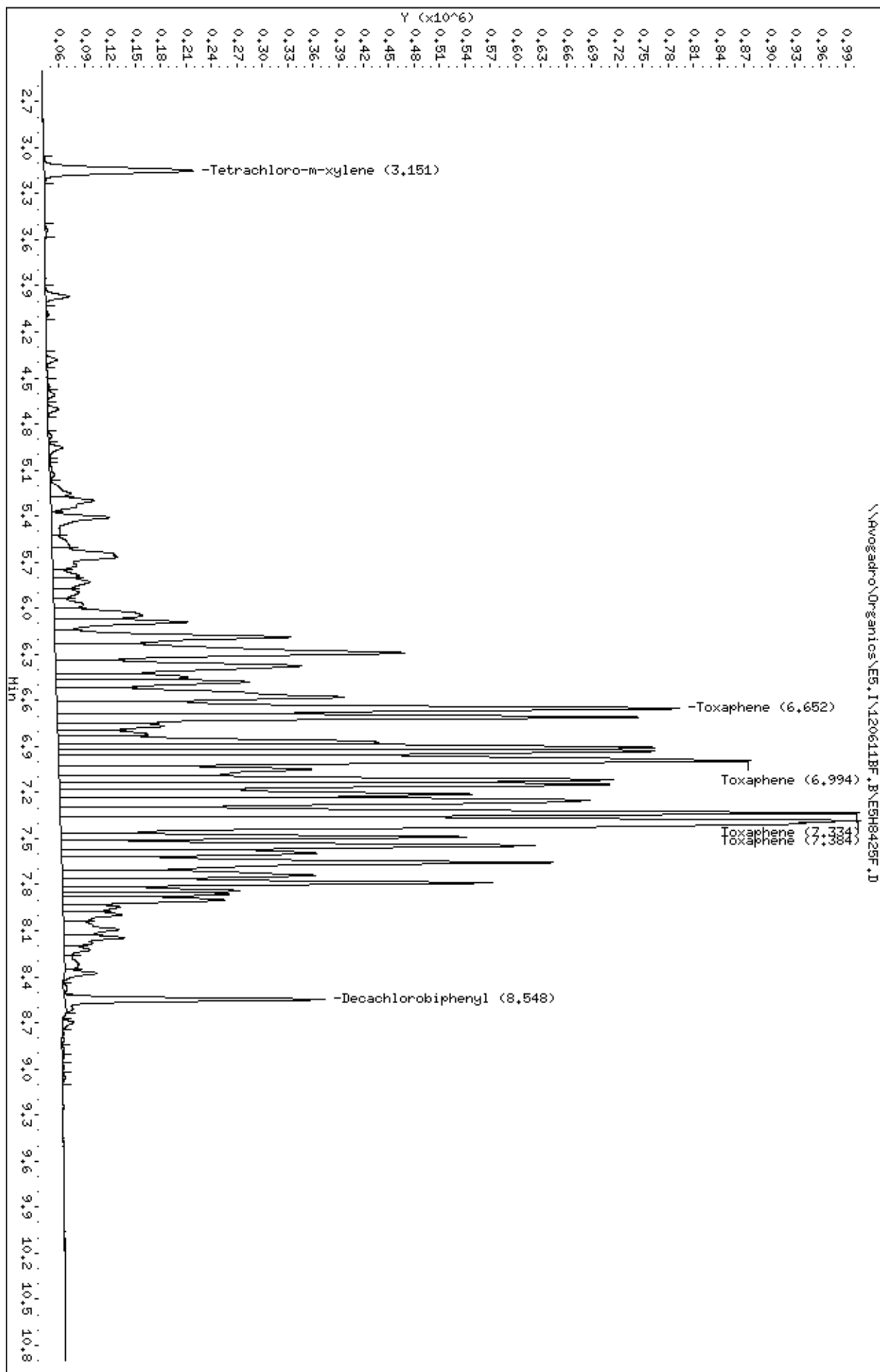
28	Toxaphene		CAS #: 8001-35-2			
6.651	6.651	0.000	735145	1.00000	0.97 80.00- 120.00	100.00(a)
6.993	6.993	0.000	816863	1.00000	0.98 88.23- 128.23	111.12
7.333	7.333	0.000	943198	1.00000	0.98 108.67- 148.67	128.30
7.383	7.382	0.001	945085	1.00000	0.98 110.11- 150.11	128.56
Average of Peak Amounts =			0.97750			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8425F.D
 Date : 11-JUN-2012 17:12
 Client ID: TOXAPH2M5
 Sample Info: TOXAPH2M5, TOXAPH2M5, sontox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8425R.D
Lab Smp Id: TOXAPH2M5 Client Smp ID: TOXAPH2M5
Inj Date : 11-JUN-2012 17:12
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : TOXAPH2M5, TOXAPH2M5,, somtox.sub,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 17:12 Cal File: E5H8425R.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

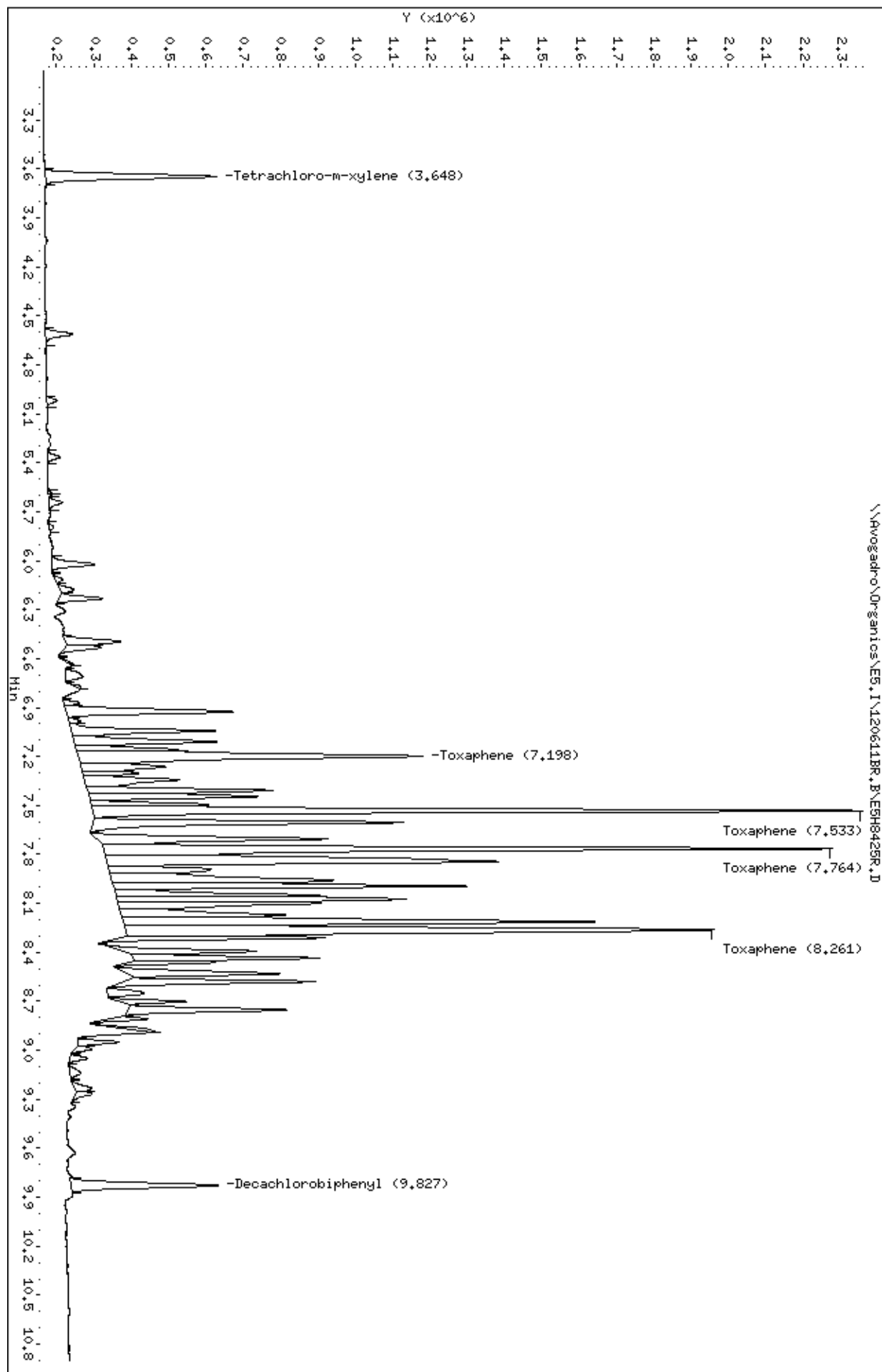
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.647	3.647	0.000	457581	0.01000		(a)
\$ 2					CAS #: 2051-24-3	
9.826	9.824	0.002	863524	0.02000		(a)
28					CAS #: 8001-35-2	
7.197	7.197	0.000	921440	1.00000	0.97 80.00- 120.00	100.00(a)
7.532	7.532	0.000	2061818	1.00000	0.96 199.83- 239.83	223.76
7.764	7.764	0.000	1952305	1.00000	0.97 191.41- 231.41	211.88
8.261	8.260	0.001	1578489	1.00000	0.94 160.96- 200.96	171.31
Average of Peak Amounts =			0.96000			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8425R.D
Date : 11-JUN-2012 17:12
Client ID: TOXAPH2M5
Sample Info: TOXAPH2M5, somtox, sub,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: ES.i
Operator: DL SRC: DL
Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8426F.D
 Lab Smp Id: TOXAPH3M5 Client Smp ID: TOXAPH3M5
 Inj Date : 11-JUN-2012 17:27
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : TOXAPH3M5, TOXAPH3M5, , somtox.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
 Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 17:27 Cal File: E5H8426F.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: somtox.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

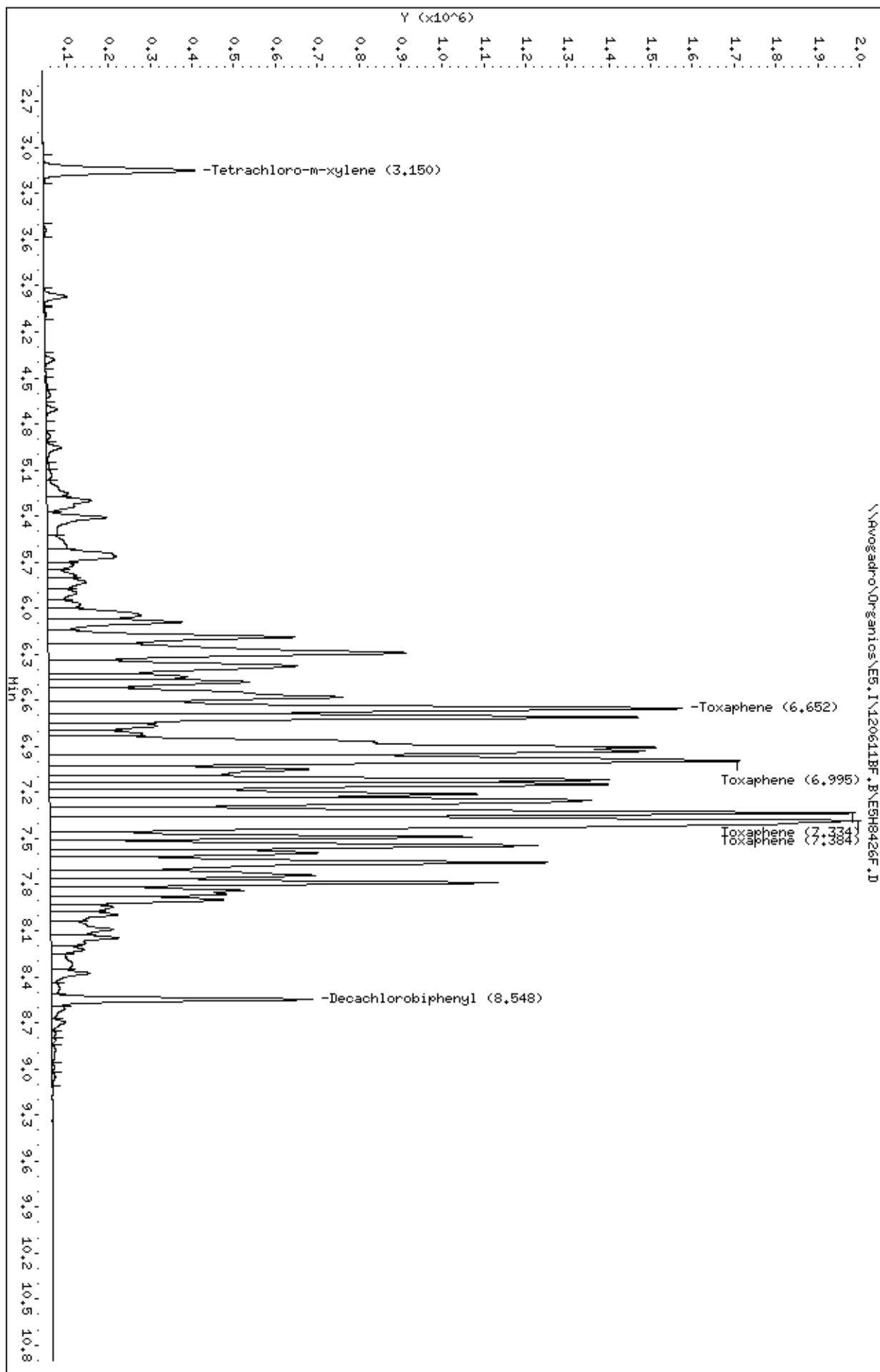
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.149	3.150	-0.001	923605	0.02000		(a)
\$ 2					CAS #: 2051-24-3	
8.548	8.544	0.004	1093873	0.04000		(a)
28					CAS #: 8001-35-2	
6.652	6.651	0.001	1517823	2.00000	2.0 80.00- 120.00	100.00(a)
6.994	6.993	0.001	1655675	2.00000	2.0 88.23- 128.23	109.08
7.334	7.333	0.001	1930898	2.00000	2.0 108.67- 148.67	127.21
7.384	7.382	0.002	1944501	2.00000	2.0 110.11- 150.11	128.11
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\ES, I\120611BF, B\ESH8426F.D
 Date : 11-JUN-2012 17:27
 Client ID: TOXAPH3M5
 Sample Info: TOXAPH3M5, somtox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8426R.D
Lab Smp Id: TOXAPH3M5 Client Smp ID: TOXAPH3M5
Inj Date : 11-JUN-2012 17:27
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : TOXAPH3M5, TOXAPH3M5,, somtox.sub,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 17:27 Cal File: E5H8426R.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.647	3.647	0.000	931969	0.02000		(a)

\$ 2 Decachlorobiphenyl CAS #: 2051-24-3						
9.827	9.824	0.003	1888840	0.04000		(a)

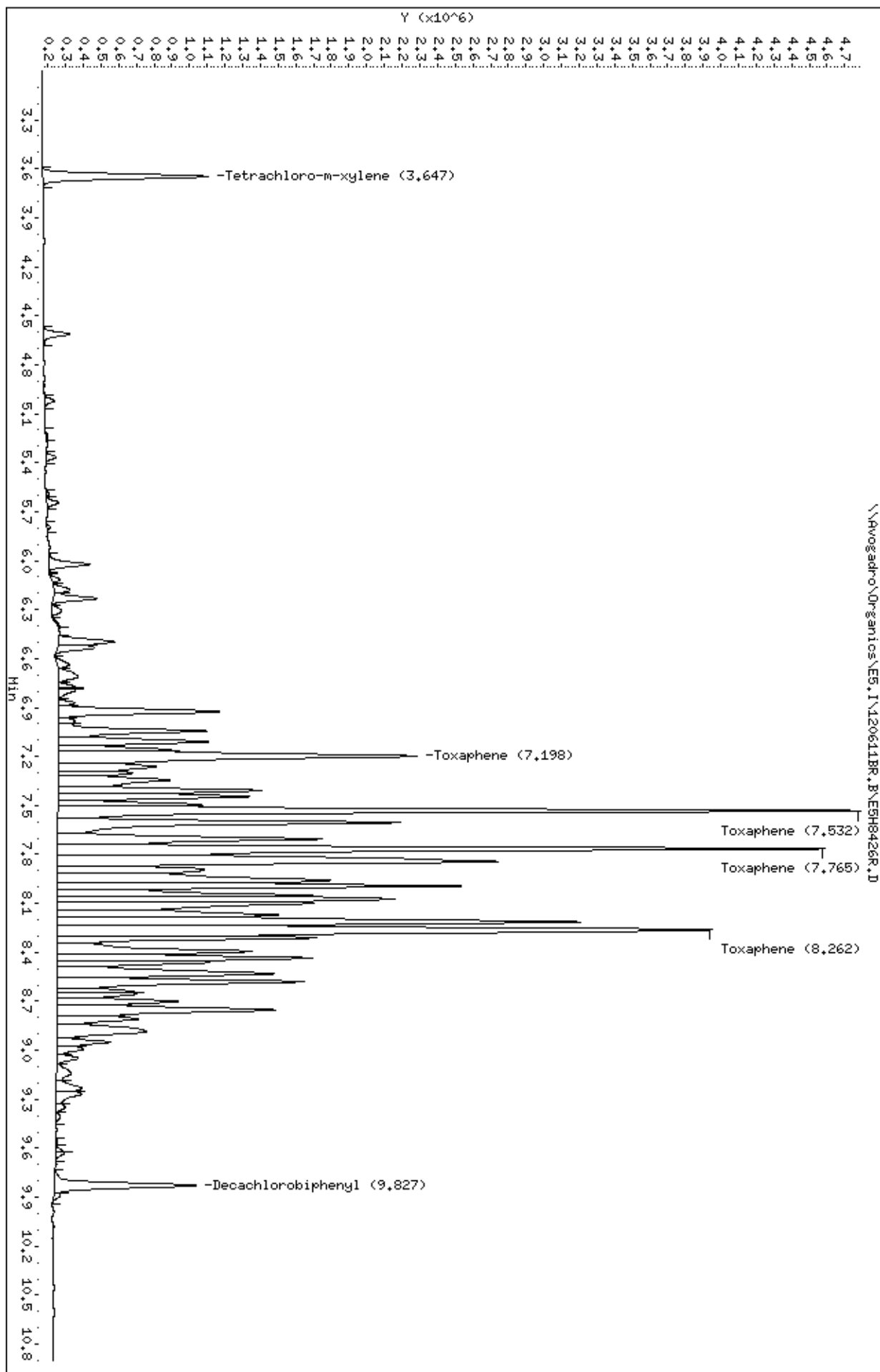
28 Toxaphene CAS #: 8001-35-2						
7.198	7.197	0.001	2023296	2.00000	2.1 80.00- 120.00	100.00(a)
7.532	7.532	0.000	4533915	2.00000	2.1 199.83- 239.83	224.09
7.764	7.764	0.000	4334335	2.00000	2.1 191.41- 231.41	214.22
8.261	8.260	0.001	3697128	2.00000	2.1 160.96- 200.96	182.73
Average of Peak Amounts =			2.10000			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8426R.D
 Date : 11-JUN-2012 17:27
 Client ID: TOXAPH3M5
 Sample Info: TOXAPH3M5, somtox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8427F.D
 Lab Smp Id: TOXAPH4M5 Client Smp ID: TOXAPH4M5
 Inj Date : 11-JUN-2012 17:41
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : TOXAPH4M5, TOXAPH4M5,, somtox.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
 Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 17:41 Cal File: E5H8427F.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: somtox.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

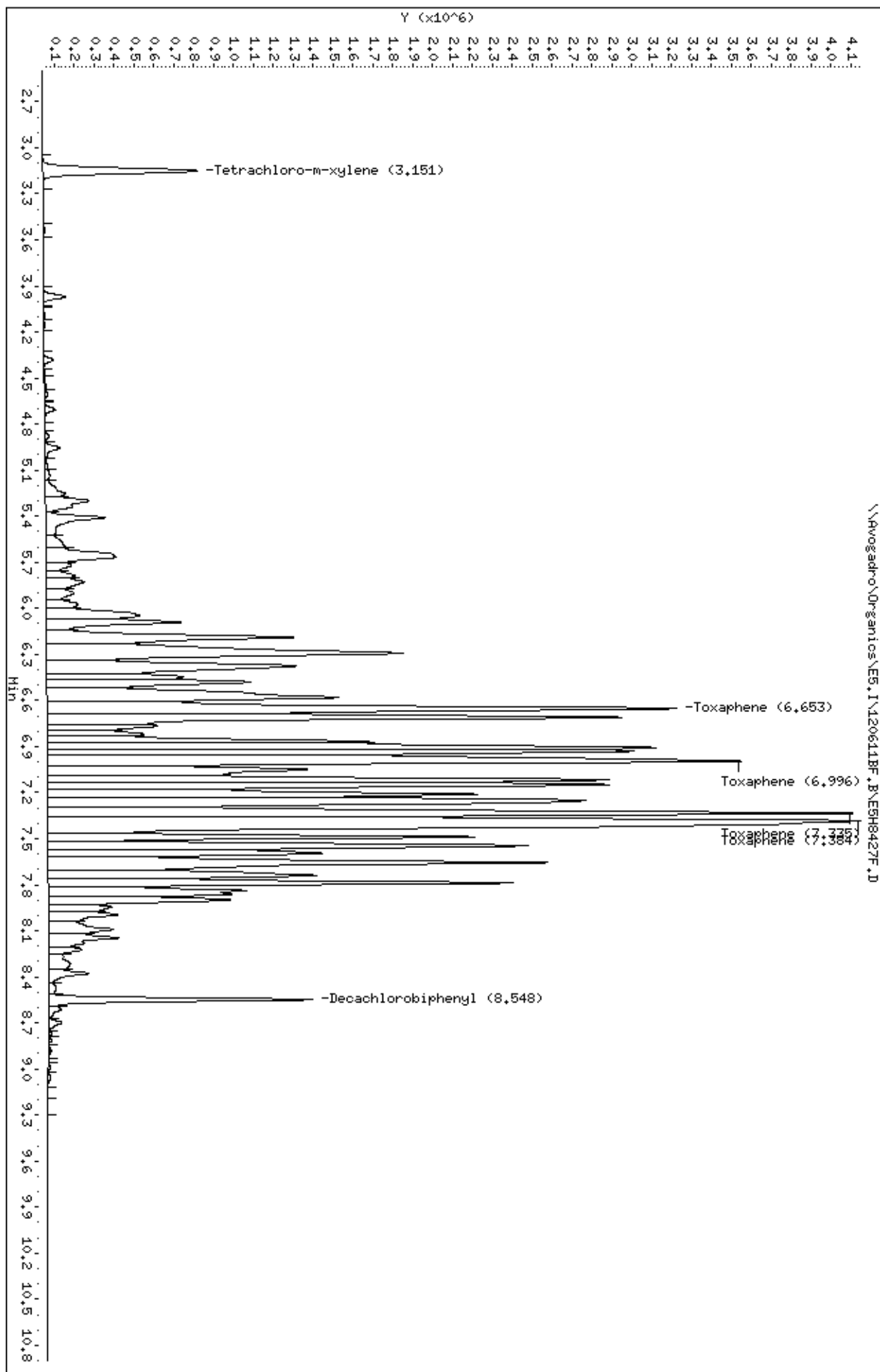
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.150	3.150	0.000	1998061	0.04000		(a)
\$ 2					CAS #: 2051-24-3	
8.548	8.544	0.004	2294094	0.08000		(a)
28					CAS #: 8001-35-2	
6.652	6.651	0.001	3160095	4.00000	4.1 80.00- 120.00	100.00(a)
6.995	6.993	0.002	3482713	4.00000	4.1 88.23- 128.23	110.21
7.335	7.333	0.002	4034868	4.00000	4.1 108.67- 148.67	127.68
7.384	7.382	0.002	4079271	4.00000	4.2 110.11- 150.11	129.09
Average of Peak Amounts =			4.12500			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8427F.D
 Date : 11-JUN-2012 17:41
 Client ID: TOXAPH4H5
 Sample Info: TOXAPH4H5, somtox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8427R.D
Lab Smp Id: TOXAPH4M5 Client Smp ID: TOXAPH4M5
Inj Date : 11-JUN-2012 17:41
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : TOXAPH4M5, TOXAPH4M5, , somtox.sub, ,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 17:41 Cal File: E5H8427R.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

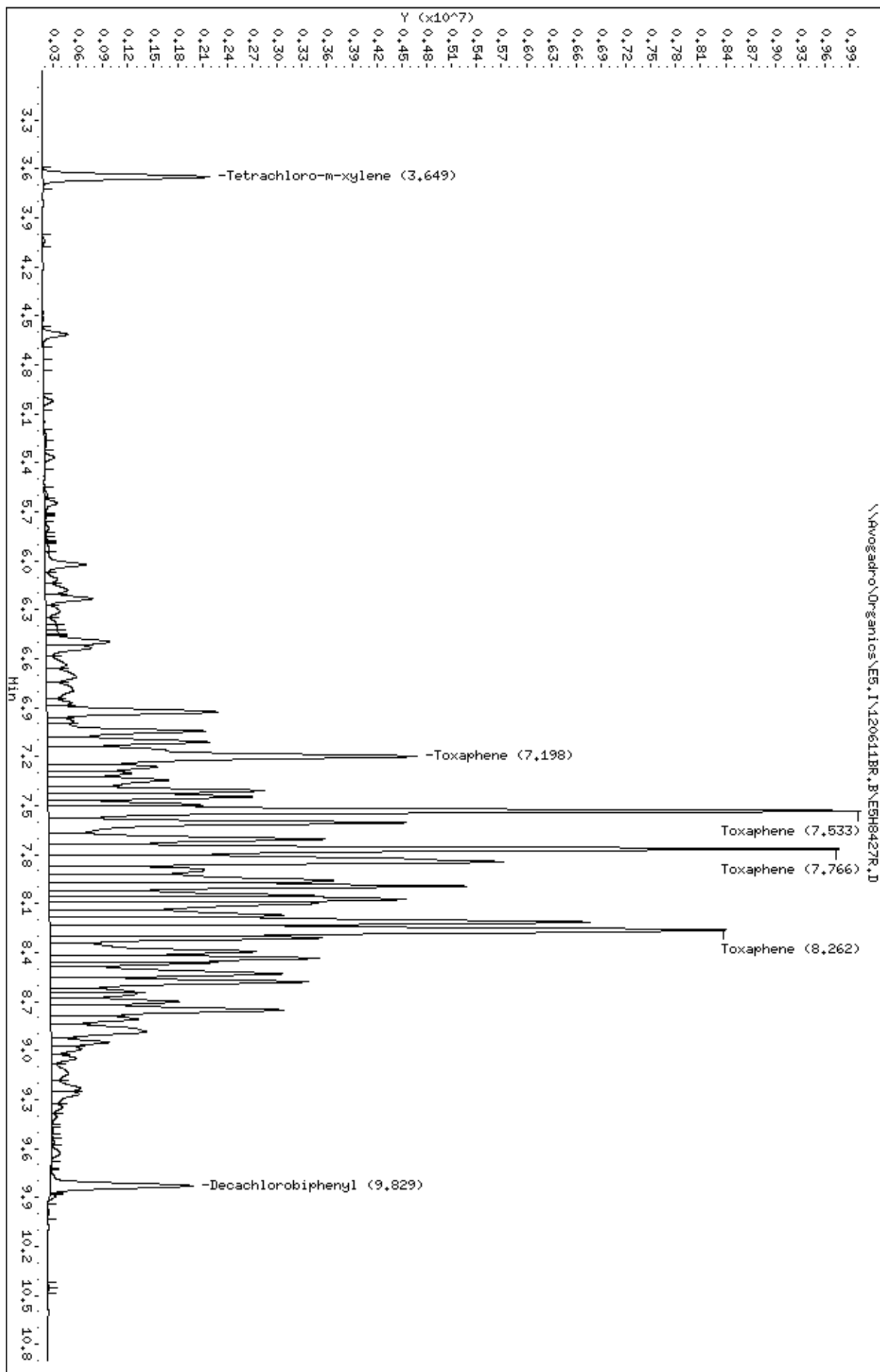
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.649	3.647	0.002	2016762	0.04000		(a)
\$ 2					CAS #: 2051-24-3	
9.829	9.824	0.005	4003281	0.08000		(a)
28					CAS #: 8001-35-2	
7.198	7.197	0.001	4451259	4.00000	4.4 80.00- 120.00	100.00(a)
7.533	7.532	0.001	9790412	4.00000	4.4 199.83- 239.83	219.95
7.765	7.764	0.001	9521459	4.00000	4.4 191.41- 231.41	213.90
8.261	8.260	0.001	8146946	4.00000	4.5 160.96- 200.96	183.03
Average of Peak Amounts =			4.42500			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8427R.D
 Date : 11-JUN-2012 17:41
 Client ID: TOXAPH4H5
 Sample Info: TOXAPH4H5, TOXAPH4H5, sontox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8428F.D
Lab Smp Id: TOXAPH5M5 Client Smp ID: TOXAPH5M5
Inj Date : 11-JUN-2012 17:55
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : TOXAPH5M5, TOXAPH5M5, , somtox.sub, ,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 17:55 Cal File: E5H8428F.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

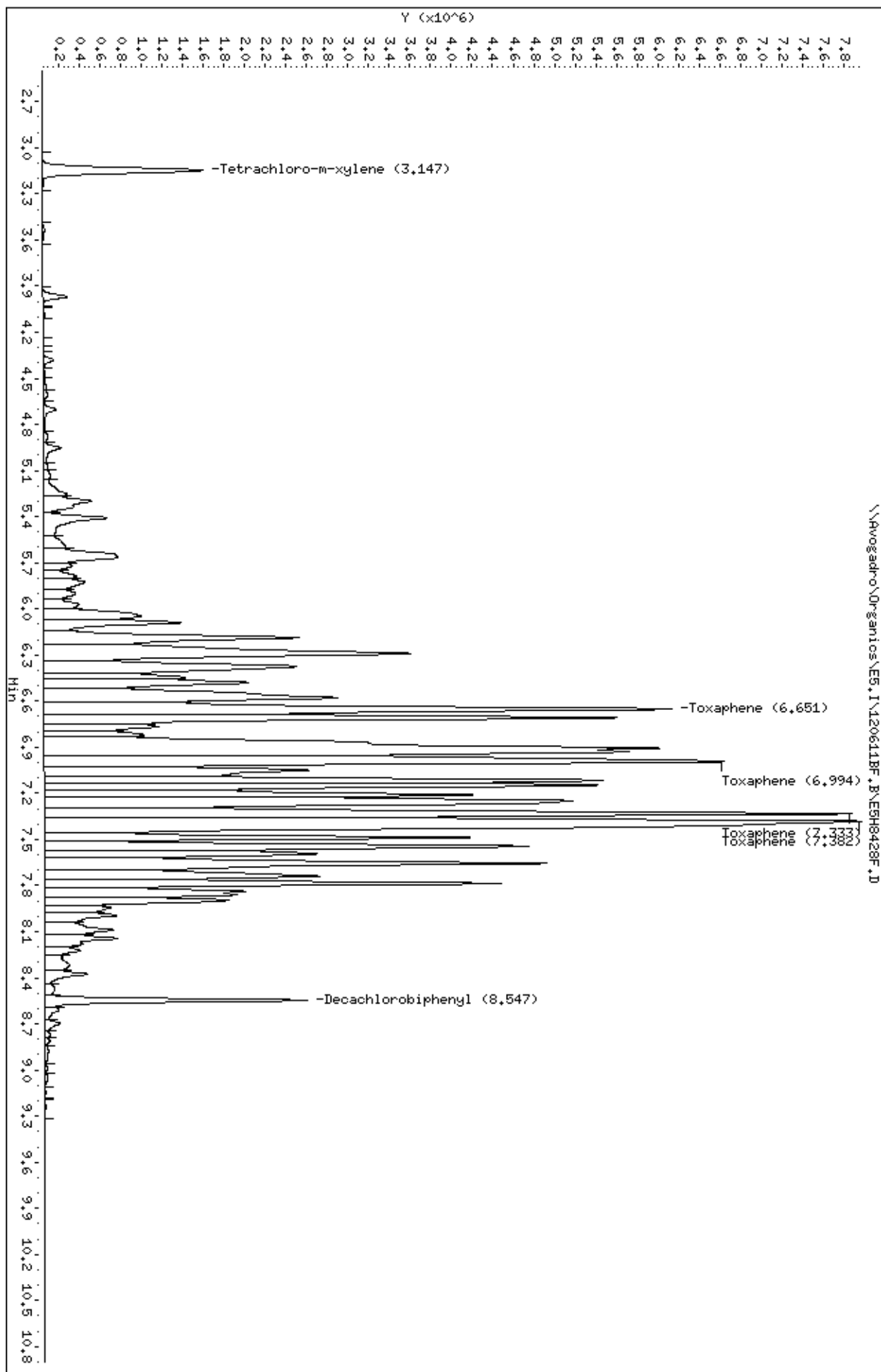
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1	Tetrachloro-m-xylene			CAS #: 877-09-8		
3.147	3.150	-0.003	3962959	0.08000		(a)
\$ 2	Decachlorobiphenyl			CAS #: 2051-24-3		
8.547	8.544	0.003	4449746	0.16000		(a)
28	Toxaphene			CAS #: 8001-35-2		
6.651	6.651	0.000	6080748	8.00000	8.0 80.00- 120.00	100.00
6.993	6.993	0.000	6581047	8.00000	7.8 88.23- 128.23	108.23
7.333	7.333	0.000	7824340	8.00000	8.0 108.67- 148.67	128.67
7.382	7.382	0.000	7911379	8.00000	8.0 110.11- 150.11	130.11
Average of Peak Amounts =			7.95000			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8428F.D
 Date : 11-JUN-2012 17:55
 Client ID: TOXAPHEN5
 Sample Info: TOXAPHEN5, TOXAPHEN5, sontox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8428R.D
Lab Smp Id: TOXAPH5M5 Client Smp ID: TOXAPH5M5
Inj Date : 11-JUN-2012 17:55
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : TOXAPH5M5, TOXAPH5M5, , somtox.sub, ,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 17:55 Cal File: E5H8428R.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: somtox.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

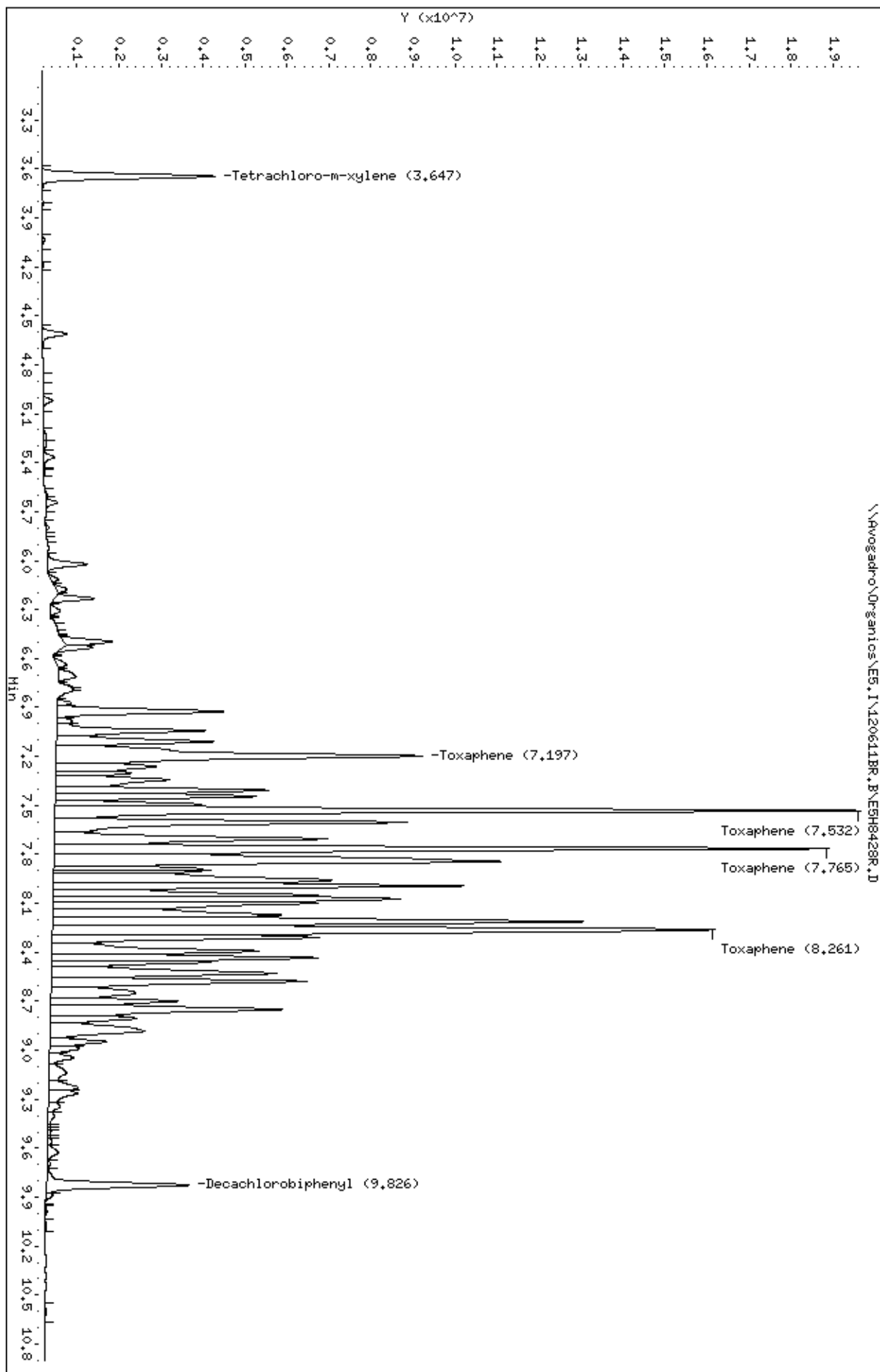
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.647	3.647	0.000	4121965	0.08000		(a)
\$ 2					CAS #: 2051-24-3	
9.825	9.824	0.001	7947780	0.16000		(a)
28					CAS #: 8001-35-2	
7.197	7.197	0.000	8727759	8.00000	8.5 80.00- 120.00	100.00(A)
7.532	7.532	0.000	19186602	8.00000	8.4 199.83- 239.83	219.83
7.764	7.764	0.000	18450927	8.00000	8.5 191.41- 231.41	211.41
8.260	8.260	0.000	15793886	8.00000	8.6 160.96- 200.96	180.96
Average of Peak Amounts =			8.50000			

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\ES, I\120611BR, B\ESH8428R.D
 Date : 11-JUN-2012 17:55
 Client ID: TOXAPHEN5
 Sample Info: TOXAPHEN5, TOXAPHEN5, sontox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8429F.D
 Lab Smp Id: TC3M5 Client Smp ID: TC3M5
 Inj Date : 11-JUN-2012 18:10
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : TC3M5, TC3M5, , CHLORDANE.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
 Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 18:10 Cal File: E5H8429F.D
 Als bottle: 8 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: CHLORDANE.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

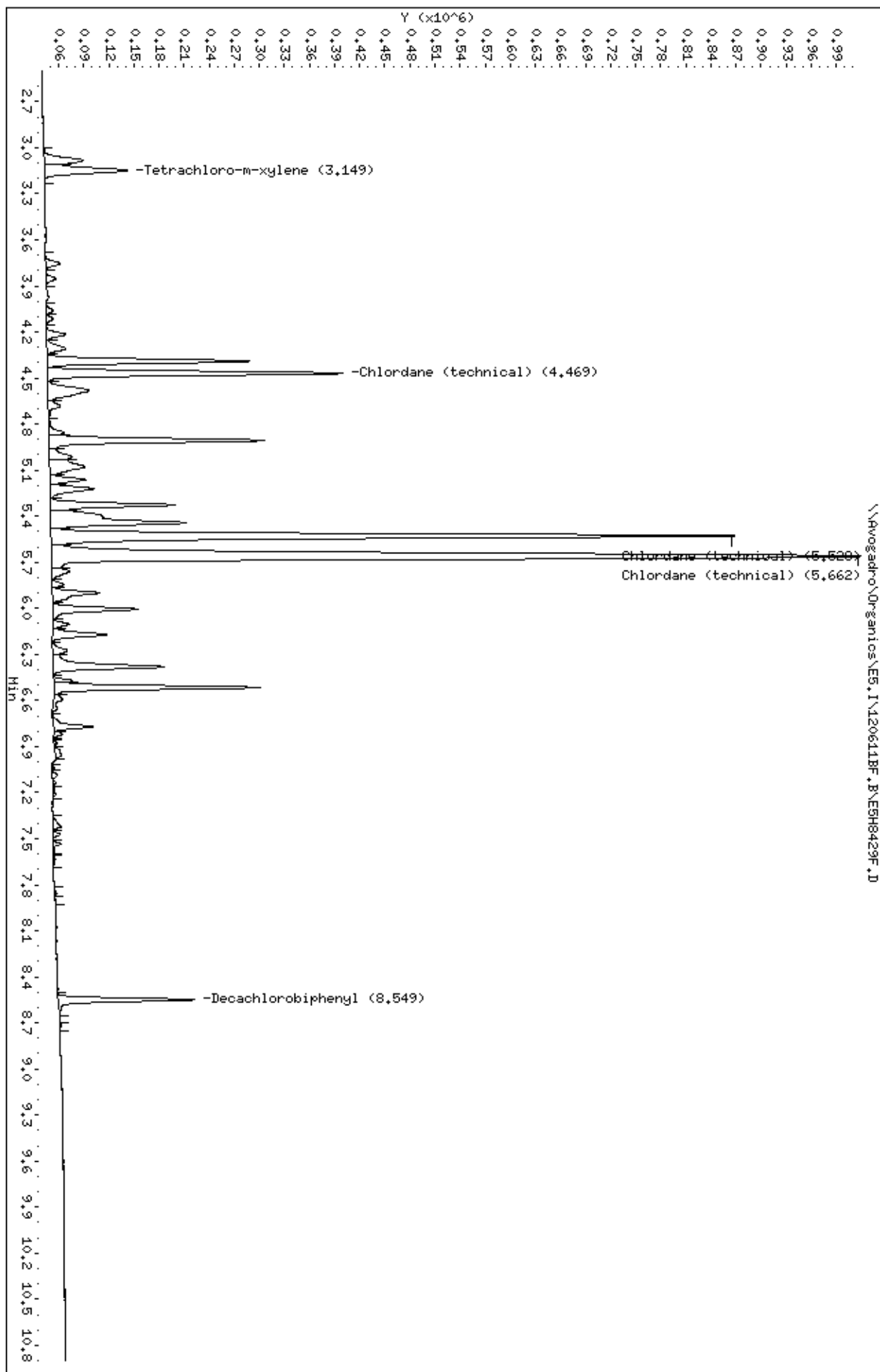
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.149	3.150	-0.001	256013	0.02000		(a)
\$ 2					CAS #: 2051-24-3	
8.549	8.544	0.005	283218	0.04000		(a)
29					CAS #: 12789-03-6	
4.469	4.469	0.000	701399	1.00000	1.0 80.00- 120.00	100.00
5.528	5.528	0.000	1746993	1.00000	1.0 229.07- 269.07	249.07
5.661	5.661	0.000	2700475	1.00000	1.0 365.01- 405.01	385.01
Average of Peak Amounts =			1.00000			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8429F.D
 Date: 11-JUN-2012 18:10
 Client ID: TC3M5
 Sample Info: TC3M5, TC3M5, CHLORDANE, sub.,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8429R.D
 Lab Smp Id: TC3M5 Client Smp ID: TC3M5
 Inj Date : 11-JUN-2012 18:10
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : TC3M5, TC3M5, , CHLORDANE.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
 Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 18:10 Cal File: E5H8429R.D
 Als bottle: 8 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: CHLORDANE.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

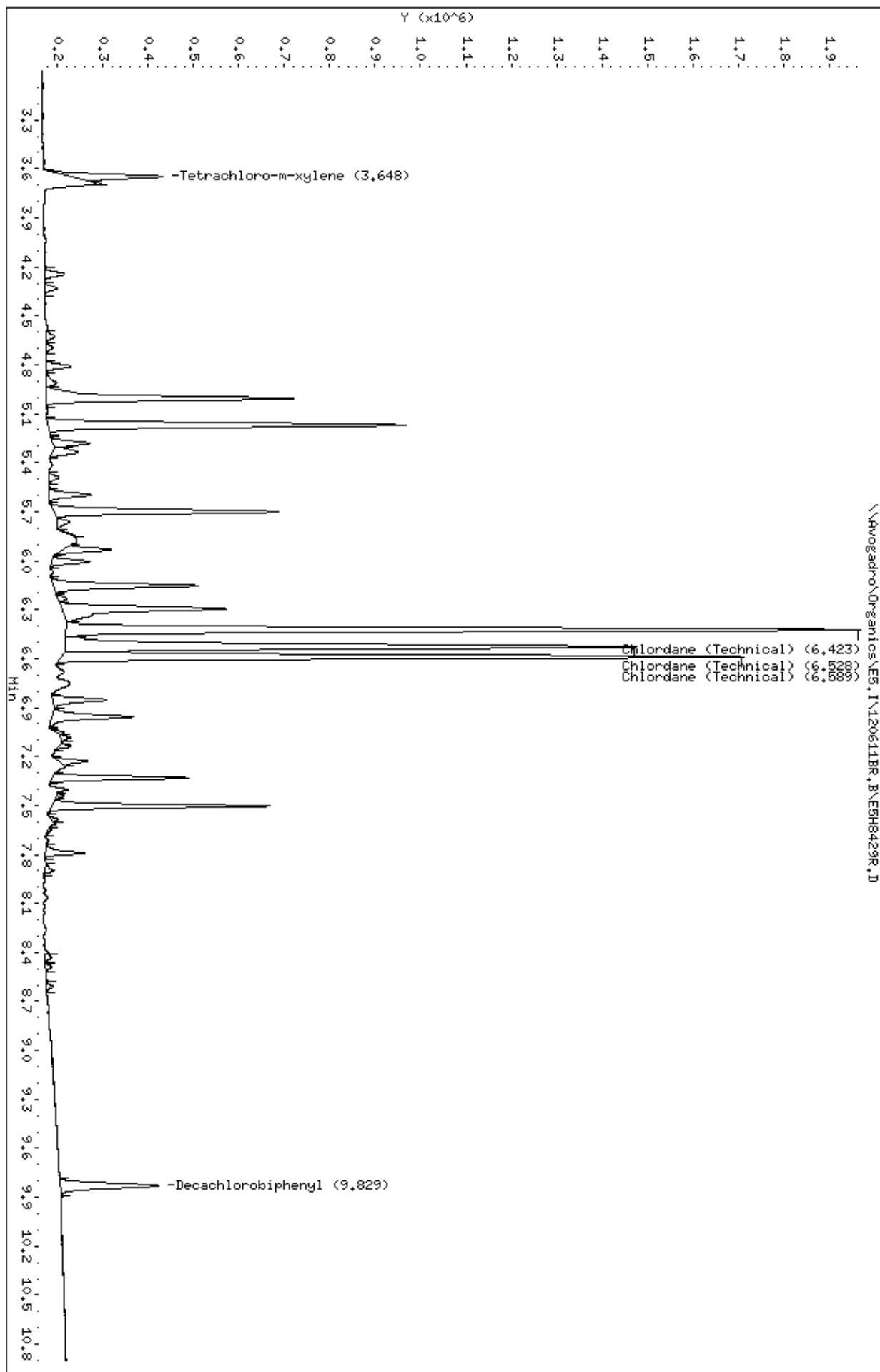
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.647	3.647	0.000	201831	0.02000		(a)
\$ 2					CAS #: 2051-24-3	
9.829	9.824	0.005	491942	0.04000		(a)
29					CAS #: 12789-03-6	
6.423	6.423	0.000	1749417	1.00000	1.0 80.00- 120.00	100.00
6.528	6.528	0.000	1258414	1.00000	1.0 51.93- 91.93	71.93
6.589	6.589	0.000	1504168	1.00000	1.0 65.98- 105.98	85.98
Average of Peak Amounts =			1.00000			

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8429R.D
 Date : 11-JUN-2012 18:10
 Client ID: TC3M5
 Sample Info: TC3M5, TC3M5, CHLORDANE, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8430F.D
 Lab Smp Id: INDC1M5 Client Smp ID: INDC1M5
 Inj Date : 11-JUN-2012 18:24
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : INDC1M5, INDC1M5, , indA.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
 Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 18:24 Cal File: E5H8430F.D
 Als bottle: 9 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: indA.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.148	3.150	-0.002	199880 0.00500	0.0050		(a)

6					CAS #: 319-84-6	
3.704	3.704	0.000	148422 0.00500	0.0050		(a)

7					CAS #: 58-89-9	
4.008	4.008	0.000	289376 0.00500	0.0050		(a)

10					CAS #: 319-85-7	
4.092	4.091	0.001	125033 0.00500	0.0050		(a)

11					CAS #: 319-86-8	
4.263	4.262	0.001	280450 0.00500	0.0050		(a)

8					CAS #: 76-44-8	
4.470	4.469	0.001	288332 0.00500	0.0050		(a)

9					CAS #: 309-00-2	
4.769	4.768	0.001	266177 0.00500	0.0050		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
5.395	5.394	0.001	244907 0.00500	0.0050		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
5.528	5.525	0.003	131745 0.00500	0.0050		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
5.671	5.669	0.002	249205 0.00500	0.0050		(a)

18 4,4'-DDE				CAS #: 72-55-9		
5.754	5.752	0.002	265373 0.01000	0.010		(a)

15 Endosulfan I				CAS #: 959-98-8		
5.820	5.819	0.001	120605 0.00500	0.0050		(a)

19 Dieldrin				CAS #: 60-57-1		
6.084	6.081	0.003	492109 0.01000	0.010		(a)

20 Endrin				CAS #: 72-20-8		
6.344	6.342	0.002	262477 0.01000	0.010		(a)

21 4,4'-DDD				CAS #: 72-54-8		
6.422	6.419	0.003	377079 0.01000	0.010		(a)

22 Endosulfan II				CAS #: 33213-65-9		
6.590	6.586	0.004	402223 0.01000	0.010		(a)

23 4,4'-DDT				CAS #: 50-29-3		
6.722	6.719	0.003	405001 0.01000	0.010		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.019	7.016	0.003	213940 0.01000	0.010		(a)

26 Methoxychlor				CAS #: 72-43-5		
7.209	7.205	0.004	925504 0.05000	0.050		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.429	7.425	0.004	346413 0.01000	0.010		(a)

27 Endrin ketone				CAS #: 53494-70-5		
7.678	7.673	0.005	283557 0.01000	0.010		(a)

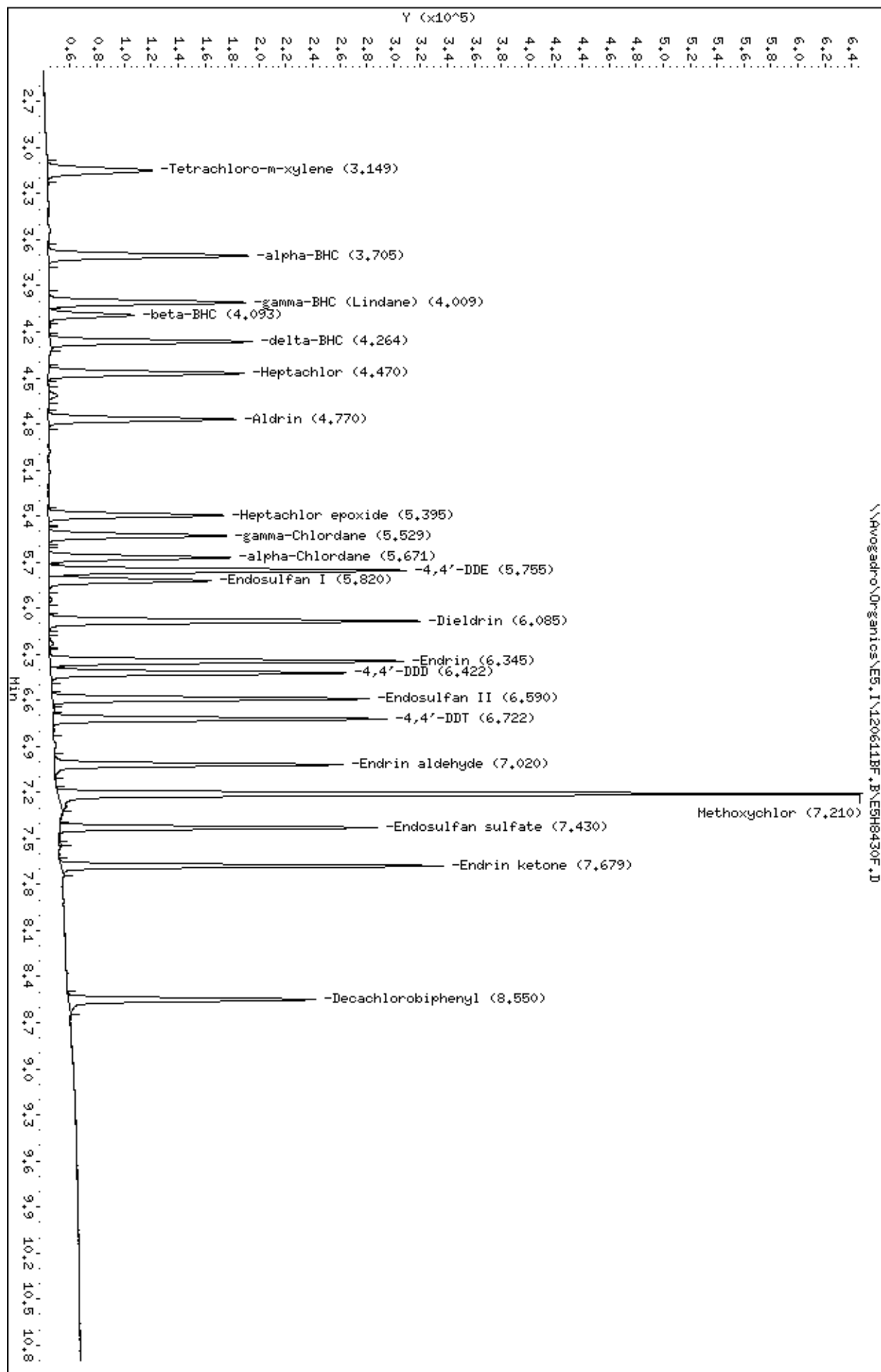
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
8.549	8.544	0.005	320182 0.01000	0.010		(a)

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8430F.D
 Date: 11-JUN-2012 18:24
 Client ID: INDC1M5
 Sample Info: INDC1M5, INDC1M5, indh, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8430R.D
 Lab Smp Id: INDC1M5 Client Smp ID: INDC1M5
 Inj Date : 11-JUN-2012 18:24
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : INDC1M5, INDC1M5, , indA.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
 Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 18:24 Cal File: E5H8430R.D
 Als bottle: 9 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: indA.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.647	3.647	0.000	203331 0.00500	0.0050		(a)

6					CAS #: 319-84-6	
4.294	4.294	0.000	706186 0.00500	0.0050		(a)

7					CAS #: 58-89-9	
4.676	4.674	0.002	639227 0.00500	0.0050		(a)

10					CAS #: 319-85-7	
4.753	4.753	0.000	267917 0.00500	0.0050		(a)

11					CAS #: 319-86-8	
5.082	5.081	0.001	645190 0.00500	0.0050		(a)

8					CAS #: 76-44-8	
5.169	5.169	0.000	640660 0.00500	0.0050		(a)

9					CAS #: 309-00-2	
5.542	5.540	0.002	605383 0.00500	0.0050		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ng)	(ng)	=====	=====
14 Heptachlor epoxide					CAS #: 1024-57-3	
6.201	6.199	0.002	551339 0.00500	0.0050		(a)

16 gamma-Chlordane					CAS #: 5103-74-2	
6.422	6.421	0.001	531990 0.00500	0.0050		(a)

17 alpha-Chlordane					CAS #: 5103-71-9	
6.589	6.588	0.001	518607 0.00500	0.0050		(a)

18 4,4'-DDE					CAS #: 72-55-9	
6.757	6.755	0.002	982338 0.01000	0.010		(a)

15 Endosulfan I					CAS #: 959-98-8	
6.659	6.657	0.002	273844 0.00500	0.0050		(a)

19 Dieldrin					CAS #: 60-57-1	
6.951	6.949	0.002	994336 0.01000	0.010		(a)

20 Endrin					CAS #: 72-20-8	
7.258	7.256	0.002	568081 0.01000	0.010		(a)

21 4,4'-DDD					CAS #: 72-54-8	
7.342	7.340	0.002	719898 0.01000	0.010		(a)

22 Endosulfan II					CAS #: 33213-65-9	
7.457	7.454	0.003	727644 0.01000	0.010		(a)

23 4,4'-DDT					CAS #: 50-29-3	
7.635	7.632	0.003	709067 0.01000	0.010		(a)

24 Endrin aldehyde					CAS #: 7421-93-4	
7.760	7.757	0.003	391941 0.01000	0.010		(a)

26 Methoxychlor					CAS #: 72-43-5	
8.220	8.216	0.004	1491401 0.05000	0.050		(a)

25 Endosulfan sulfate					CAS #: 1031-07-8	
7.997	7.994	0.003	584512 0.01000	0.010		(a)

27 Endrin ketone					CAS #: 53494-70-5	
8.485	8.479	0.006	437396 0.01000	0.010		(a)

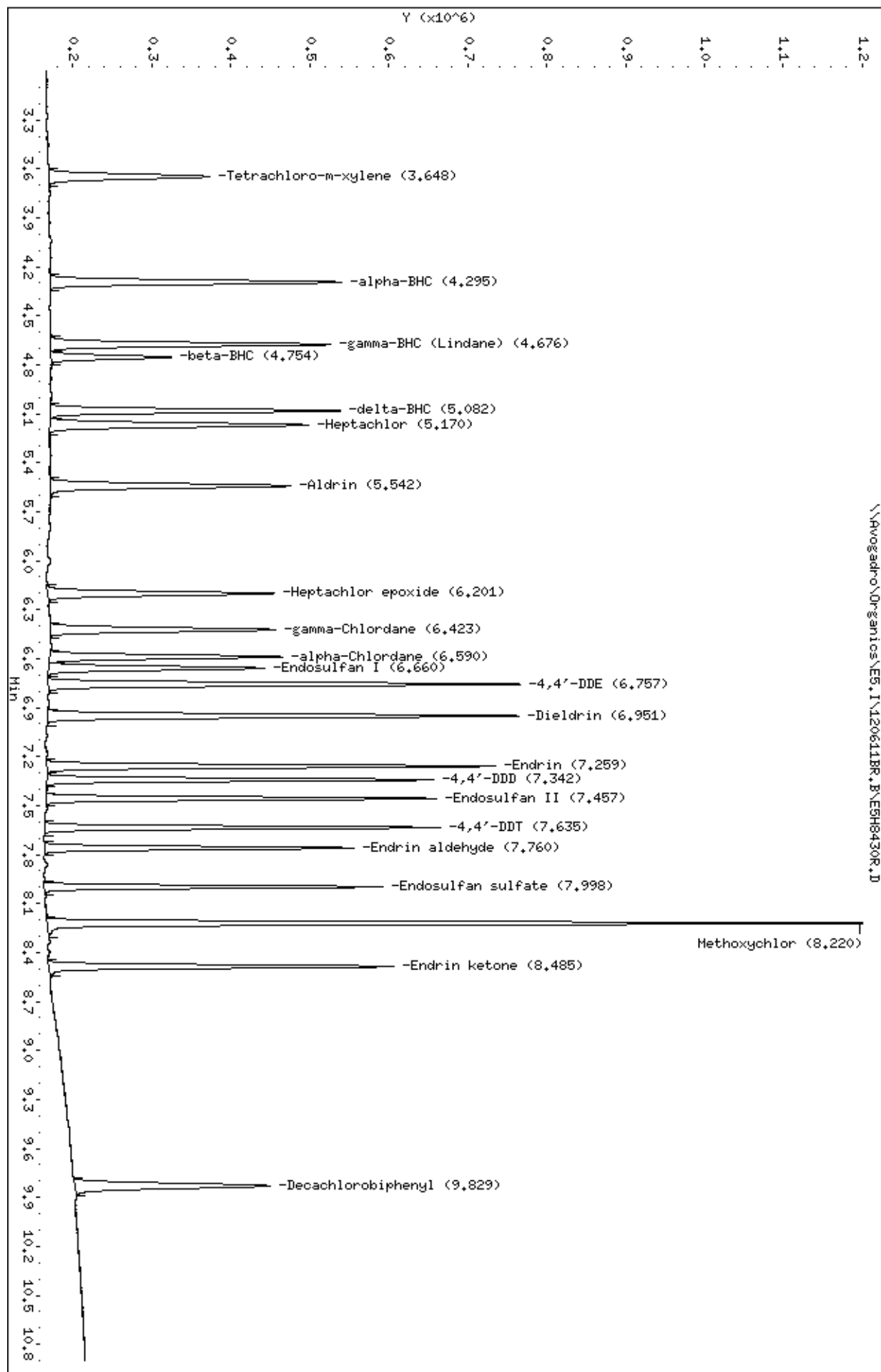
\$ 2 Decachlorobiphenyl					CAS #: 2051-24-3	
9.828	9.824	0.004	567670 0.01000	0.010		(a)

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8430R.D
 Date: 11-JUN-2012 18:24
 Client ID: INDCIMS
 Sample Info: INDCIMS, INDCIMS, inda, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8431F.D
Lab Smp Id: INDC2M5 Client Smp ID: INDC2M5
Inj Date : 11-JUN-2012 18:39
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : INDC2M5, INDC2M5, , indA.sub, ,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 18:39 Cal File: E5H8431F.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.148	3.150	-0.002	397279 0.01000	0.0100		(a)

6					CAS #: 319-84-6	
3.703	3.704	-0.001	302745 0.01000	0.010		(a)

7					CAS #: 58-89-9	
4.007	4.008	-0.001	590112 0.01000	0.010		(a)

10					CAS #: 319-85-7	
4.091	4.091	0.000	249434 0.01000	0.0100		(a)

11					CAS #: 319-86-8	
4.263	4.262	0.001	592553 0.01000	0.010		(a)

8					CAS #: 76-44-8	
4.470	4.469	0.001	583587 0.01000	0.010		(a)

9					CAS #: 309-00-2	
4.769	4.768	0.001	544303 0.01000	0.010		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
5.395	5.394	0.001	494474 0.01000	0.010		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
5.528	5.525	0.003	270432 0.01000	0.010		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
5.671	5.669	0.002	501440 0.01000	0.010		(a)

18 4,4'-DDE				CAS #: 72-55-9		
5.755	5.752	0.003	544535 0.02000	0.020		(a)

15 Endosulfan I				CAS #: 959-98-8		
5.820	5.819	0.001	243098 0.01000	0.010		(a)

19 Dieldrin				CAS #: 60-57-1		
6.084	6.081	0.003	1014099 0.02000	0.020		(a)

20 Endrin				CAS #: 72-20-8		
6.345	6.342	0.003	537178 0.02000	0.020		(a)

21 4,4'-DDD				CAS #: 72-54-8		
6.421	6.419	0.002	776788 0.02000	0.020		(a)

22 Endosulfan II				CAS #: 33213-65-9		
6.590	6.586	0.004	813863 0.02000	0.020		(a)

23 4,4'-DDT				CAS #: 50-29-3		
6.721	6.719	0.002	830651 0.02000	0.020		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.019	7.016	0.003	428555 0.02000	0.020		(a)

26 Methoxychlor				CAS #: 72-43-5		
7.209	7.205	0.004	1788720 0.10000	0.098		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.429	7.425	0.004	696519 0.02000	0.020		(a)

27 Endrin ketone				CAS #: 53494-70-5		
7.677	7.673	0.004	590059 0.02000	0.020		(a)

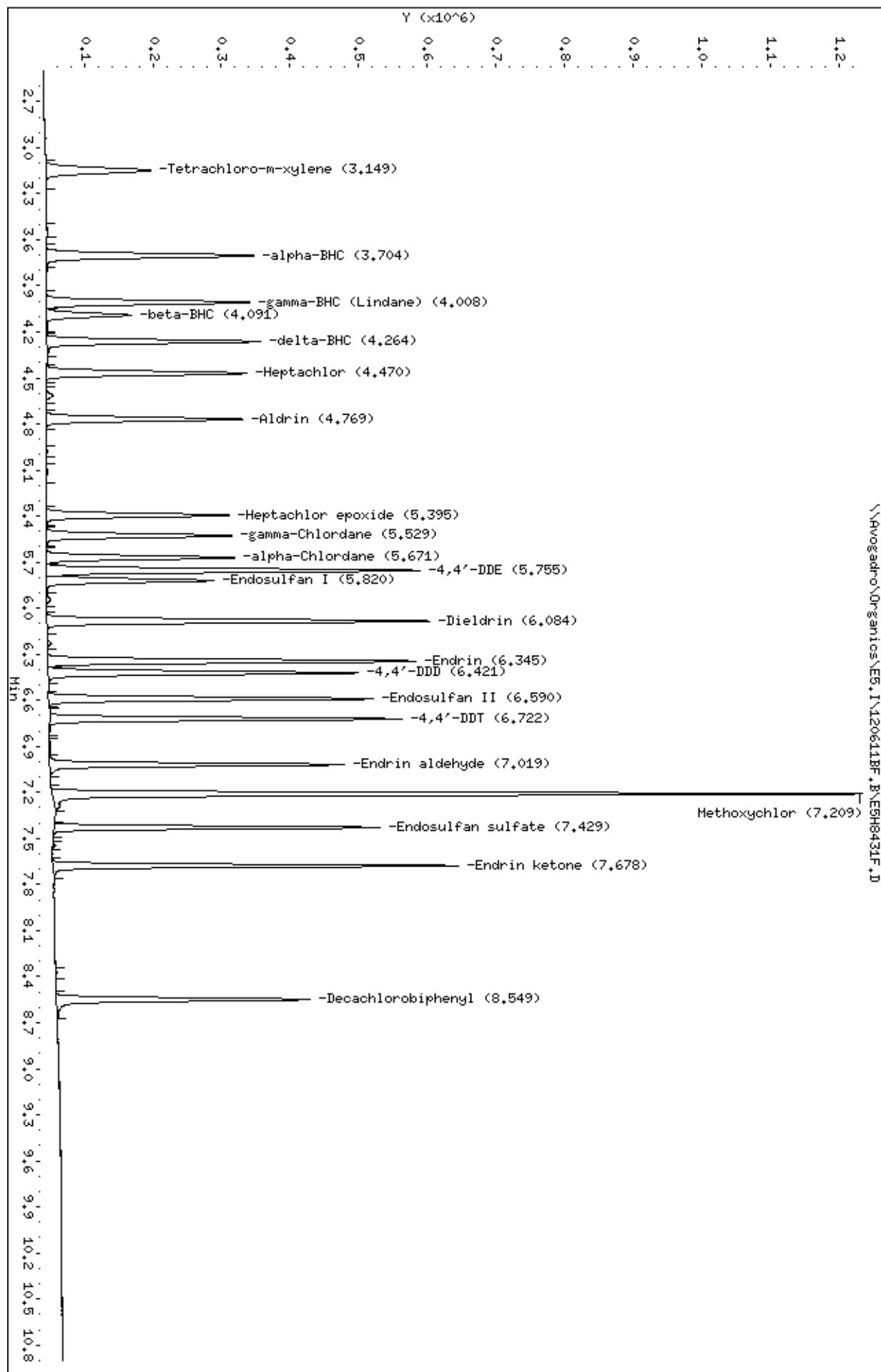
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
8.549	8.544	0.005	626140 0.02000	0.020		(a)

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8431F.D
 Date: 11-JUN-2012 18:39
 Client ID: INDC2M5
 Sample Info: INDC2M5, INDC2M5, indA, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8431R.D
 Lab Smp Id: INDC2M5 Client Smp ID: INDC2M5
 Inj Date : 11-JUN-2012 18:39
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : INDC2M5, INDC2M5, , indA.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
 Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 18:39 Cal File: E5H8431R.D
 Als bottle: 10 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: indA.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.647	3.647	0.000	396785 0.01000	0.0099		(a)

6 alpha-BHC CAS #: 319-84-6						
4.293	4.294	-0.001	1427842 0.01000	0.010		(a)

7 gamma-BHC (Lindane) CAS #: 58-89-9						
4.675	4.674	0.001	1279128 0.01000	0.010		(a)

10 beta-BHC CAS #: 319-85-7						
4.753	4.753	0.000	525511 0.01000	0.0099		(a)

11 delta-BHC CAS #: 319-86-8						
5.081	5.081	0.000	1297686 0.01000	0.010		(a)

8 Heptachlor CAS #: 76-44-8						
5.168	5.169	-0.001	1285228 0.01000	0.010		(a)

9 Aldrin CAS #: 309-00-2						
5.541	5.540	0.001	1205676 0.01000	0.0100		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL -AMT RESPONSE (ng)	ON -COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
6.201	6.199	0.002	1083272 0.01000	0.0099		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
6.423	6.421	0.002	1060172 0.01000	0.0100		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
6.589	6.588	0.001	1031134 0.01000	0.0100		(a)

18 4,4'-DDE				CAS #: 72-55-9		
6.756	6.755	0.001	1970973 0.02000	0.020		(a)

15 Endosulfan I				CAS #: 959-98-8		
6.658	6.657	0.001	528720 0.01000	0.0098		(a)

19 Dieldrin				CAS #: 60-57-1		
6.951	6.949	0.002	1991082 0.02000	0.020		(a)

20 Endrin				CAS #: 72-20-8		
7.259	7.256	0.003	1147015 0.02000	0.020		(a)

21 4,4'-DDD				CAS #: 72-54-8		
7.342	7.340	0.002	1447401 0.02000	0.020		(a)

22 Endosulfan II				CAS #: 33213-65-9		
7.456	7.454	0.002	1457094 0.02000	0.020		(a)

23 4,4'-DDT				CAS #: 50-29-3		
7.635	7.632	0.003	1421462 0.02000	0.020		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.759	7.757	0.002	786061 0.02000	0.020		(a)

26 Methoxychlor				CAS #: 72-43-5		
8.219	8.216	0.003	3035107 0.10000	0.10		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.997	7.994	0.003	1169482 0.02000	0.020		(a)

27 Endrin ketone				CAS #: 53494-70-5		
8.484	8.479	0.005	870766 0.02000	0.020		(a)

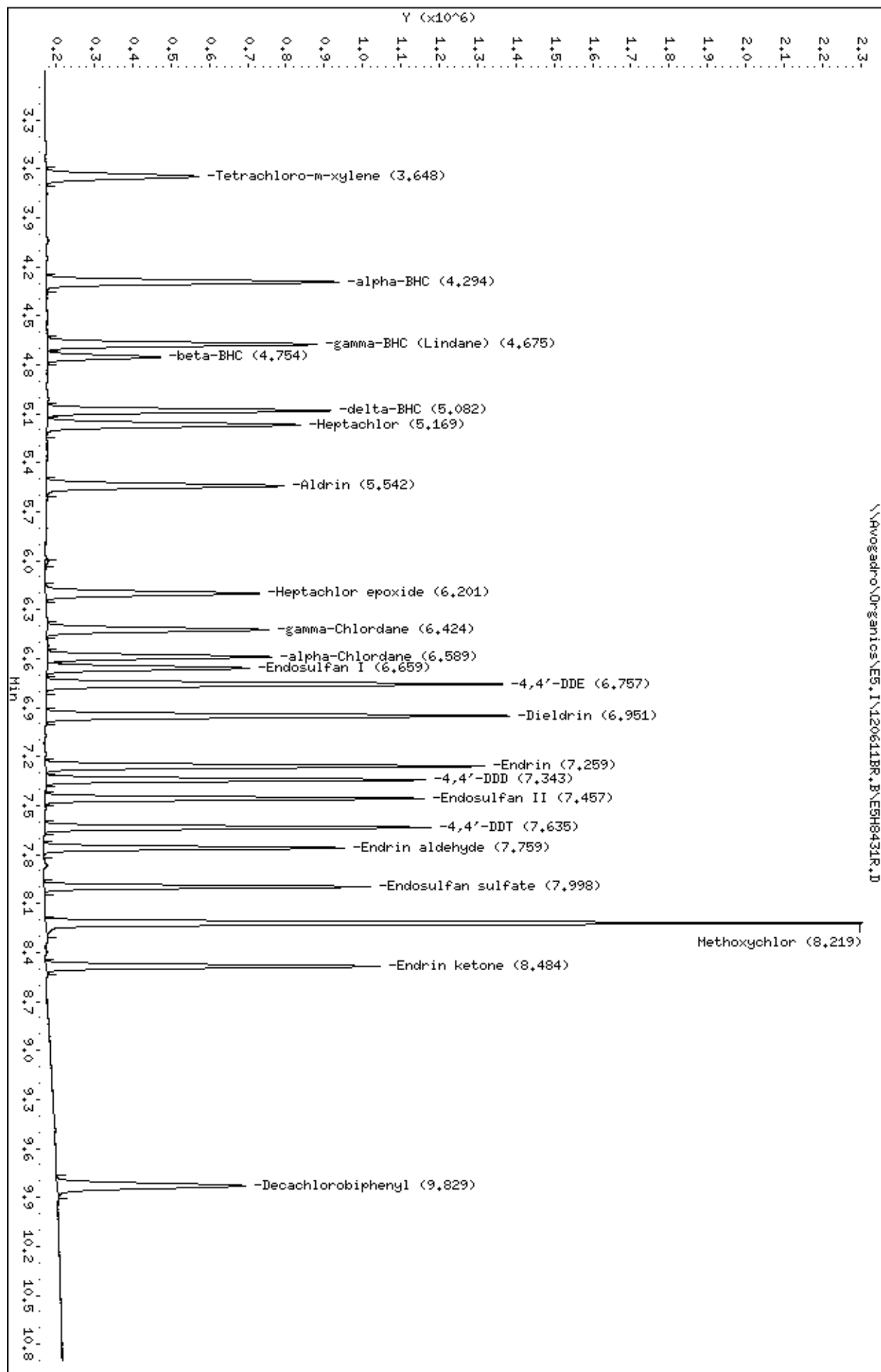
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
9.829	9.824	0.005	1129800 0.02000	0.020		(a)

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8431R.D
 Date: 11-JUN-2012 18:39
 Client ID: INDC2M5
 Sample Info: INDC2M5, INDC2M5, indA, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8432F.D
 Lab Smp Id: INDC3M5 Client Smp ID: INDC3M5
 Inj Date : 11-JUN-2012 18:53
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : INDC3M5, INDC3M5, , indA.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
 Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 18:53 Cal File: E5H8432F.D
 Als bottle: 11 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: indA.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.149	3.150	-0.001	792790 0.02000	0.020		(a)

6					CAS #: 319-84-6	
3.704	3.704	0.000	631914 0.02000	0.021		(a)

7					CAS #: 58-89-9	
4.010	4.008	0.002	1215859 0.02000	0.020		(a)

10					CAS #: 319-85-7	
4.092	4.091	0.001	491607 0.02000	0.020		(a)

11					CAS #: 319-86-8	
4.264	4.262	0.002	1226204 0.02000	0.021		(a)

8					CAS #: 76-44-8	
4.471	4.469	0.002	1189650 0.02000	0.020		(a)

9					CAS #: 309-00-2	
4.770	4.768	0.002	1119076 0.02000	0.020		(a)

Data File: \\Avogadro\Organics\E5.I\120611BF.B\E5H8432F.D
Report Date: 13-Jun-2012 14:42

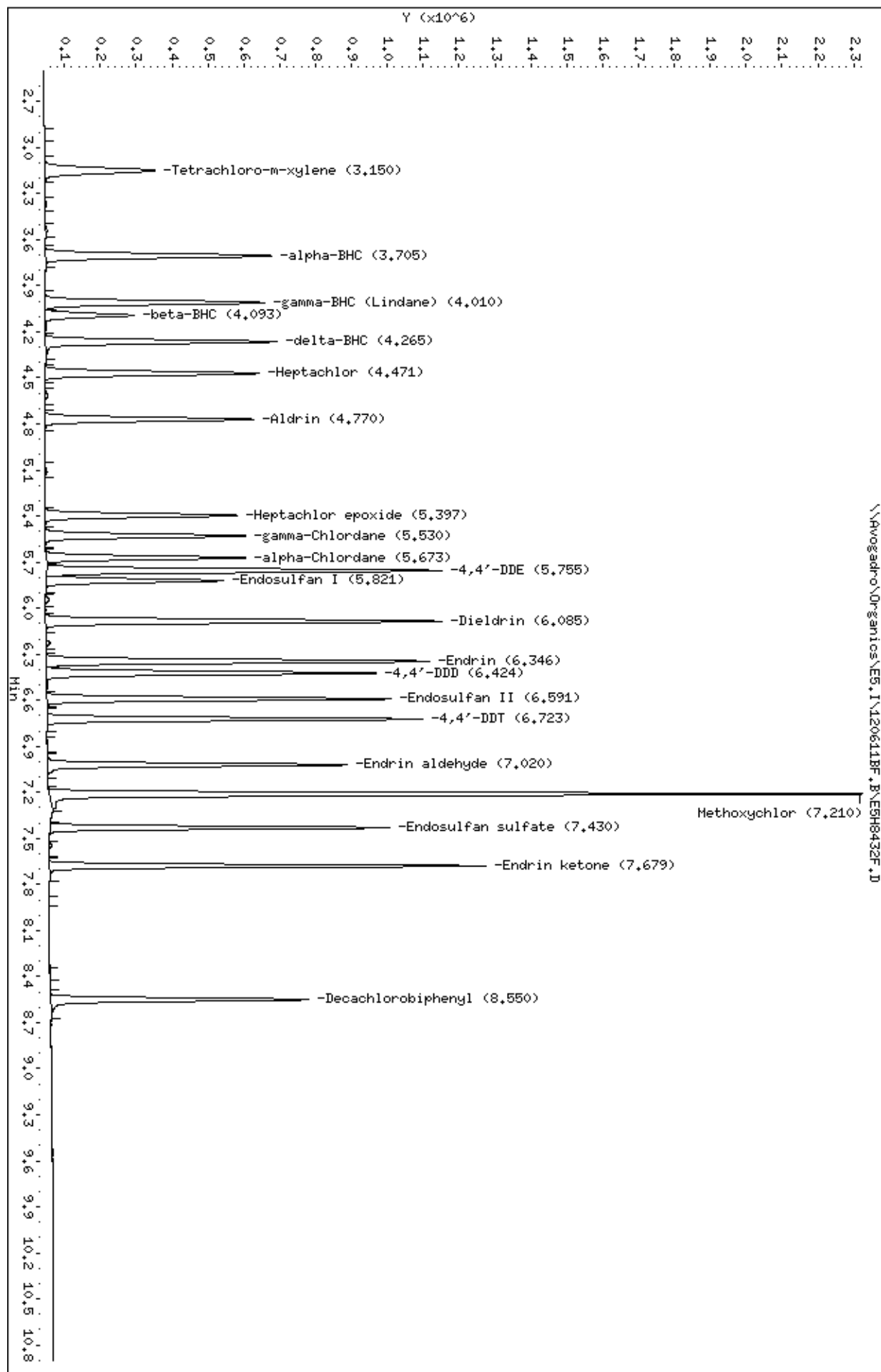
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ng)	(ng)	=====	=====
14	Heptachlor epoxide			CAS #: 1024-57-3		
5.397	5.394	0.003	1004102 0.02000	0.020		(a)
16	gamma-Chlordane			CAS #: 5103-74-2		
5.529	5.525	0.004	559051 0.02000	0.021		(a)
17	alpha-Chlordane			CAS #: 5103-71-9		
5.672	5.669	0.003	1001341 0.02000	0.020		(a)
18	4,4'-DDE			CAS #: 72-55-9		
5.755	5.752	0.003	1101637 0.04000	0.041		(a)
15	Endosulfan I			CAS #: 959-98-8		
5.821	5.819	0.002	492011 0.02000	0.020		(a)
19	Dieldrin			CAS #: 60-57-1		
6.085	6.081	0.004	2031100 0.04000	0.040		(a)
20	Endrin			CAS #: 72-20-8		
6.346	6.342	0.004	1068305 0.04000	0.040		(a)
21	4,4'-DDD			CAS #: 72-54-8		
6.423	6.419	0.004	1609796 0.04000	0.041		(a)
22	Endosulfan II			CAS #: 33213-65-9		
6.591	6.586	0.005	1636665 0.04000	0.040		(a)
23	4,4'-DDT			CAS #: 50-29-3		
6.722	6.719	0.003	1696272 0.04000	0.041		(a)
24	Endrin aldehyde			CAS #: 7421-93-4		
7.020	7.016	0.004	837710 0.04000	0.039		(a)
26	Methoxychlor			CAS #: 72-43-5		
7.210	7.205	0.005	3470785 0.20000	0.19		(a)
25	Endosulfan sulfate			CAS #: 1031-07-8		
7.430	7.425	0.005	1398709 0.04000	0.040		(a)
27	Endrin ketone			CAS #: 53494-70-5		
7.678	7.673	0.005	1216583 0.04000	0.041		(a)
\$ 2	Decachlorobiphenyl			CAS #: 2051-24-3		
8.549	8.544	0.005	1218455 0.04000	0.039		(a)

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8432F.D
 Date : 11-JUN-2012 18:53
 Client ID: INDCM5
 Sample Info: INDCM5, INDCM5, indh, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8432R.D
 Lab Smp Id: INDC3M5 Client Smp ID: INDC3M5
 Inj Date : 11-JUN-2012 18:53
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : INDC3M5, INDC3M5, , indA.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
 Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 18:53 Cal File: E5H8432R.D
 Als bottle: 11 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: indA.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.648	3.647	0.001	792060	0.02000	0.020	(a)

6	alpha-BHC		CAS #: 319-84-6			
4.294	4.294	0.000	2909585	0.02000	0.020	(a)

7	gamma-BHC (Lindane)		CAS #: 58-89-9			
4.676	4.674	0.002	2605687	0.02000	0.020	(a)

10	beta-BHC		CAS #: 319-85-7			
4.753	4.753	0.000	1040416	0.02000	0.020	(a)

11	delta-BHC		CAS #: 319-86-8			
5.082	5.081	0.001	2645882	0.02000	0.020	(a)

8	Heptachlor		CAS #: 76-44-8			
5.169	5.169	0.000	2556629	0.02000	0.020	(a)

9	Aldrin		CAS #: 309-00-2			
5.542	5.540	0.002	2416342	0.02000	0.020	(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
6.201	6.199	0.002	2149049 0.02000	0.020		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
6.423	6.421	0.002	2133049 0.02000	0.020		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
6.589	6.588	0.001	2070022 0.02000	0.020		(a)

18 4,4'-DDE				CAS #: 72-55-9		
6.757	6.755	0.002	3996906 0.04000	0.040		(a)

15 Endosulfan I				CAS #: 959-98-8		
6.659	6.657	0.002	1055055 0.02000	0.020		(a)

19 Dieldrin				CAS #: 60-57-1		
6.951	6.949	0.002	4033557 0.04000	0.040		(a)

20 Endrin				CAS #: 72-20-8		
7.259	7.256	0.003	2302229 0.04000	0.040		(a)

21 4,4'-DDD				CAS #: 72-54-8		
7.342	7.340	0.002	2941289 0.04000	0.040		(a)

22 Endosulfan II				CAS #: 33213-65-9		
7.457	7.454	0.003	2925368 0.04000	0.040		(a)

23 4,4'-DDT				CAS #: 50-29-3		
7.635	7.632	0.003	2894601 0.04000	0.040		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.760	7.757	0.003	1564090 0.04000	0.040		(a)

26 Methoxychlor				CAS #: 72-43-5		
8.220	8.216	0.004	6300736 0.20000	0.21		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.997	7.994	0.003	2374710 0.04000	0.040		(a)

27 Endrin ketone				CAS #: 53494-70-5		
8.485	8.479	0.006	1763130 0.04000	0.040		(a)

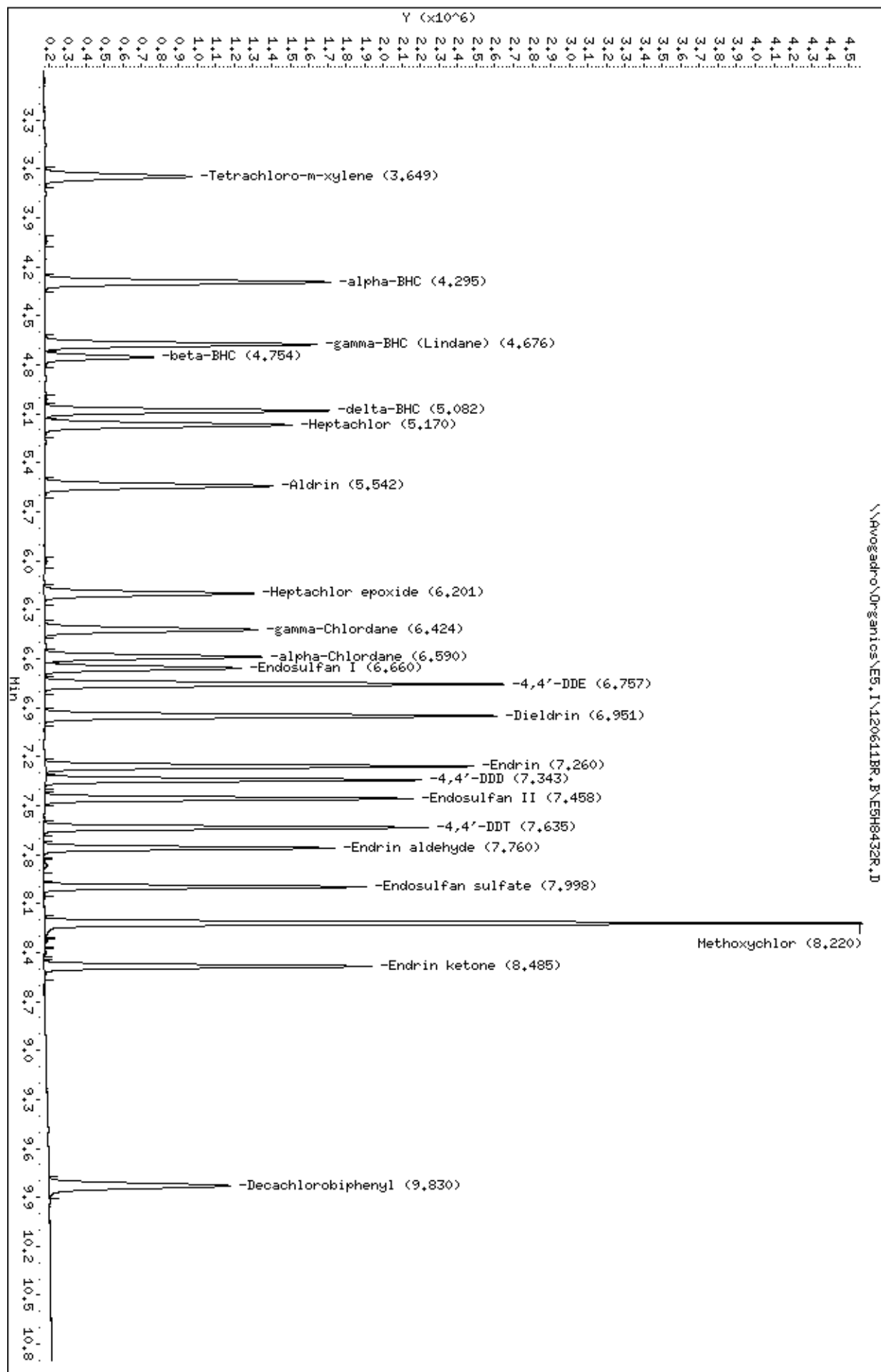
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
9.829	9.824	0.005	2235359 0.04000	0.040		(a)

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8432R.D
 Date: 11-JUN-2012 18:53
 Client ID: INDCM5
 Sample Info: INDCM5, INDCM5, indh, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8433F.D
Lab Smp Id: INDC4M5 Client Smp ID: INDC4M5
Inj Date : 11-JUN-2012 19:07
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : INDC4M5, INDC4M5, , indA.sub, ,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 19:07 Cal File: E5H8433F.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indA.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.149	3.150	-0.001	1630300 0.04000	0.041		(a)

6					CAS #: 319-84-6	
3.705	3.704	0.001	1329694 0.04000	0.043		(a)

7					CAS #: 58-89-9	
4.008	4.008	0.000	2528875 0.04000	0.042		(a)

10					CAS #: 319-85-7	
4.090	4.091	-0.001	990034 0.04000	0.040		(a)

11					CAS #: 319-86-8	
4.263	4.262	0.001	2573820 0.04000	0.043		(a)

8					CAS #: 76-44-8	
4.470	4.469	0.001	2438207 0.04000	0.041		(a)

9					CAS #: 309-00-2	
4.769	4.768	0.001	2316824 0.04000	0.042		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
5.395	5.394	0.001	2045264 0.04000	0.041		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
5.527	5.525	0.002	1162867 0.04000	0.042		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
5.670	5.669	0.001	2085466 0.04000	0.041		(a)

18 4,4'-DDE				CAS #: 72-55-9		
5.754	5.752	0.002	2304782 0.08000	0.084		(a)

15 Endosulfan I				CAS #: 959-98-8		
5.820	5.819	0.001	994295 0.04000	0.041		(a)

19 Dieldrin				CAS #: 60-57-1		
6.084	6.081	0.003	4150201 0.08000	0.082		(a)

20 Endrin				CAS #: 72-20-8		
6.345	6.342	0.003	2132448 0.08000	0.080		(a)

21 4,4'-DDD				CAS #: 72-54-8		
6.421	6.419	0.002	3347836 0.08000	0.084		(a)

22 Endosulfan II				CAS #: 33213-65-9		
6.588	6.586	0.002	3309353 0.08000	0.081		(a)

23 4,4'-DDT				CAS #: 50-29-3		
6.721	6.719	0.002	3534438 0.08000	0.084		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.019	7.016	0.003	1723286 0.08000	0.081		(a)

26 Methoxychlor				CAS #: 72-43-5		
7.208	7.205	0.003	7066673 0.40000	0.40		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.429	7.425	0.004	2934573 0.08000	0.083		(a)

27 Endrin ketone				CAS #: 53494-70-5		
7.676	7.673	0.003	2519135 0.08000	0.084		(a)

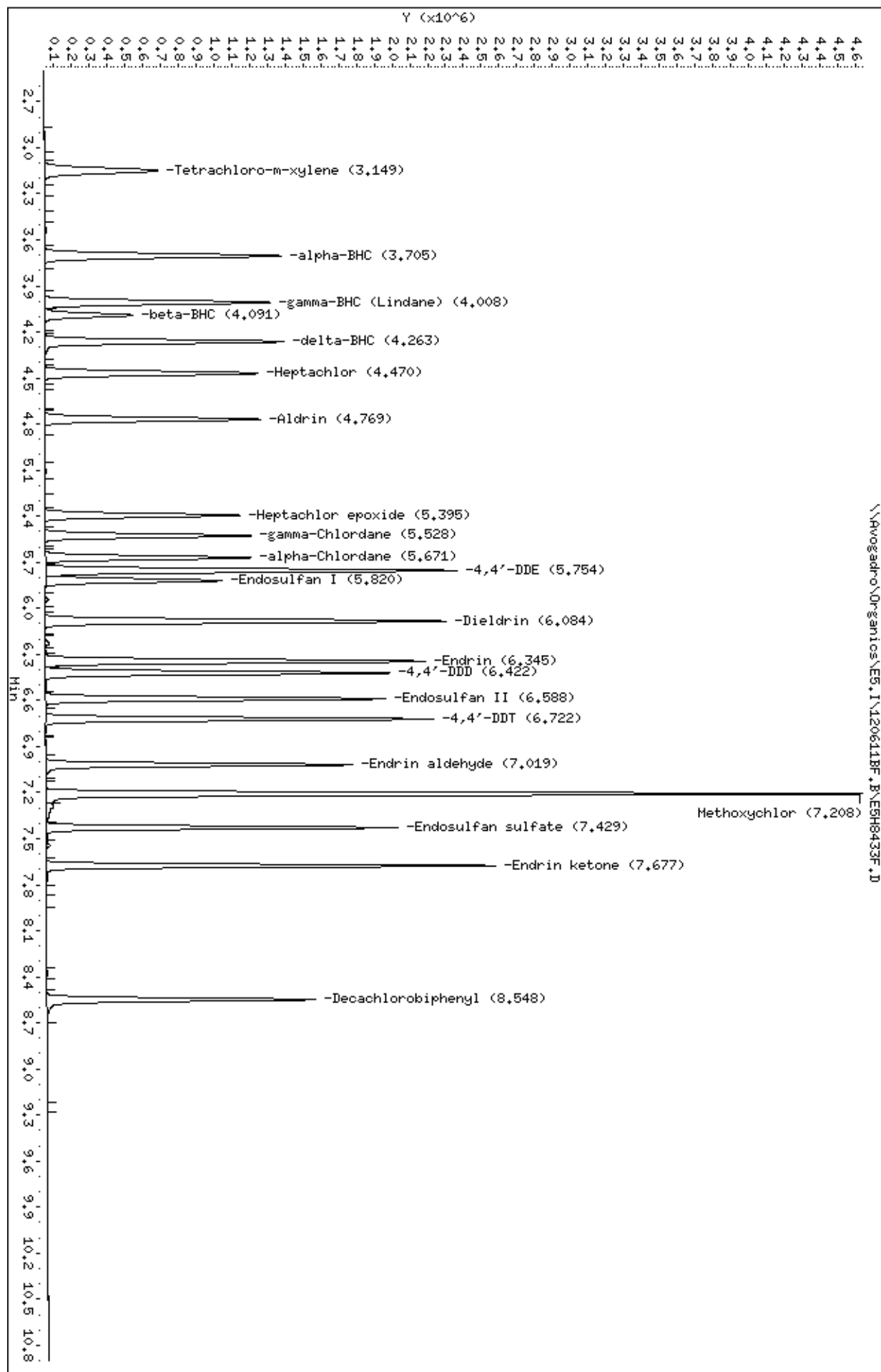
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
8.548	8.544	0.004	2522034 0.08000	0.080		(a)

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8433F.D
 Date: 11-JUN-2012 19:07
 Client ID: INDC4M5
 Sample Info: INDC4M5, INDC4M5, ind4, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8433R.D
 Lab Smp Id: INDC4M5 Client Smp ID: INDC4M5
 Inj Date : 11-JUN-2012 19:07
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : INDC4M5, INDC4M5, , indA.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
 Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:07 Cal File: E5H8433R.D
 Als bottle: 12 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: indA.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.647	3.647	0.000	1641581 0.04000	0.041		(a)

6					CAS #: 319-84-6	
4.293	4.294	-0.001	6152572 0.04000	0.042		(a)

7					CAS #: 58-89-9	
4.675	4.674	0.001	5483407 0.04000	0.042		(a)

10					CAS #: 319-85-7	
4.753	4.753	0.000	2095373 0.04000	0.040		(a)

11					CAS #: 319-86-8	
5.081	5.081	0.000	5580240 0.04000	0.042		(a)

8					CAS #: 76-44-8	
5.169	5.169	0.000	5329132 0.04000	0.041		(a)

9					CAS #: 309-00-2	
5.542	5.540	0.002	4992032 0.04000	0.041		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ng)	(ng)	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
6.201	6.199	0.002	4353680 0.04000	0.040		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
6.423	6.421	0.002	4423719 0.04000	0.041		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
6.589	6.588	0.001	4297169 0.04000	0.041		(a)

18 4,4'-DDE				CAS #: 72-55-9		
6.757	6.755	0.002	8390047 0.08000	0.084		(a)

15 Endosulfan I				CAS #: 959-98-8		
6.659	6.657	0.002	2192834 0.04000	0.041		(a)

19 Dieldrin				CAS #: 60-57-1		
6.950	6.949	0.001	8337705 0.08000	0.082		(a)

20 Endrin				CAS #: 72-20-8		
7.259	7.256	0.003	4712222 0.08000	0.082		(a)

21 4,4'-DDD				CAS #: 72-54-8		
7.342	7.340	0.002	6208261 0.08000	0.084		(a)

22 Endosulfan II				CAS #: 33213-65-9		
7.456	7.454	0.002	6039229 0.08000	0.082		(a)

23 4,4'-DDT				CAS #: 50-29-3		
7.634	7.632	0.002	6120316 0.08000	0.084		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.759	7.757	0.002	3312398 0.08000	0.083		(a)

26 Methoxychlor				CAS #: 72-43-5		
8.219	8.216	0.003	13344518 0.40000	0.43		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.997	7.994	0.003	4995039 0.08000	0.084		(a)

27 Endrin ketone				CAS #: 53494-70-5		
8.483	8.479	0.004	3691525 0.08000	0.083		(a)

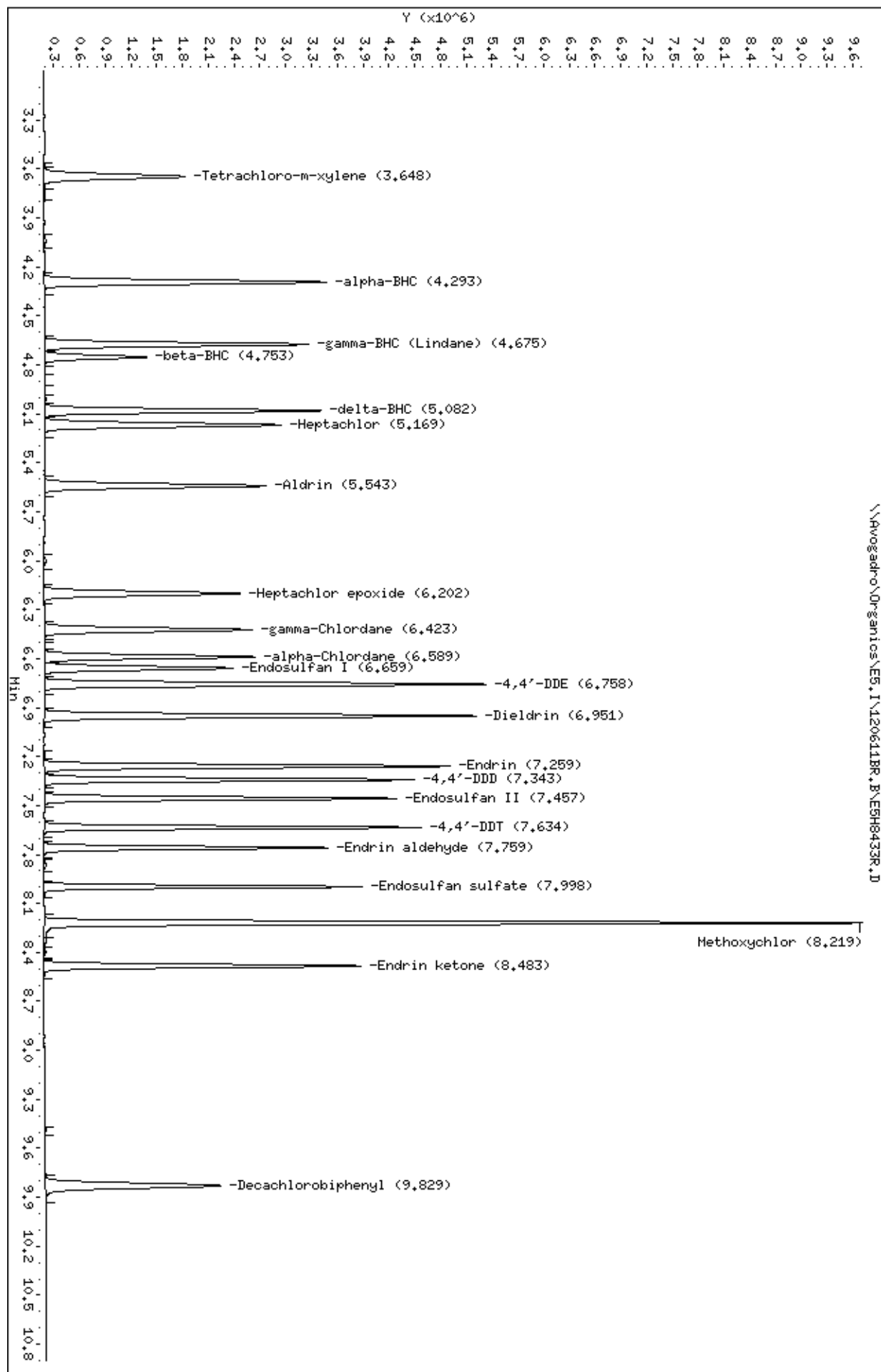
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
9.829	9.824	0.005	4637962 0.08000	0.082		(a)

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8433R.D
 Date: 11-JUN-2012 19:07
 Client ID: INDC4M5
 Sample Info: INDC4M5, INDC4M5,, ind4, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8434F.D
 Lab Smp Id: INDC5M5 Client Smp ID: INDC5M5
 Inj Date : 11-JUN-2012 19:22
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : INDC5M5, INDC5M5, , indA.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
 Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.D
 Als bottle: 13 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: indA.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.150	3.150	0.000	3248245 0.08000	0.081		(A)

6					CAS #: 319-84-6	
3.704	3.704	0.000	2665683 0.08000	0.084		(A)

7					CAS #: 58-89-9	
4.008	4.008	0.000	5030898 0.08000	0.083		(A)

10					CAS #: 319-85-7	
4.091	4.091	0.000	1945745 0.08000	0.079		

11					CAS #: 319-86-8	
4.262	4.262	0.000	5109011 0.08000	0.084		(A)

8					CAS #: 76-44-8	
4.469	4.469	0.000	4739164 0.08000	0.080		(A)

9					CAS #: 309-00-2	
4.768	4.768	0.000	4559576 0.08000	0.082		(A)

Data File: \\Avogadro\Organics\E5.I\120611BF.B\E5H8434F.D
Report Date: 13-Jun-2012 14:42

AMOUNTS					
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE RATIO
=====	=====	=====	=====	=====	=====
14	Heptachlor epoxide			CAS #: 1024-57-3	
5.394	5.394	0.000	3954139 0.08000	0.079	

16	gamma-Chlordane			CAS #: 5103-74-2	
5.525	5.525	0.000	2330761 0.08000	0.084	(A)

17	alpha-Chlordane			CAS #: 5103-71-9	
5.669	5.669	0.000	4133711 0.08000	0.081	(A)

18	4,4'-DDE			CAS #: 72-55-9	
5.752	5.752	0.000	4480551 0.16000	0.16	(A)

15	Endosulfan I			CAS #: 959-98-8	
5.819	5.819	0.000	1890505 0.08000	0.078	

19	Dieldrin			CAS #: 60-57-1	
6.081	6.081	0.000	7927748 0.16000	0.16	

20	Endrin			CAS #: 72-20-8	
6.342	6.342	0.000	3998220 0.16000	0.15	

21	4,4'-DDD			CAS #: 72-54-8	
6.419	6.419	0.000	6541049 0.16000	0.16	(A)

22	Endosulfan II			CAS #: 33213-65-9	
6.586	6.586	0.000	6524148 0.16000	0.16	

23	4,4'-DDT			CAS #: 50-29-3	
6.719	6.719	0.000	6940311 0.16000	0.16	(A)

24	Endrin aldehyde			CAS #: 7421-93-4	
7.016	7.016	0.000	3283098 0.16000	0.16	

26	Methoxychlor			CAS #: 72-43-5	
7.205	7.205	0.000	13812504 0.80000	0.78	

25	Endosulfan sulfate			CAS #: 1031-07-8	
7.425	7.425	0.000	5729570 0.16000	0.16	(A)

27	Endrin ketone			CAS #: 53494-70-5	
7.673	7.673	0.000	4835583 0.16000	0.16	(A)

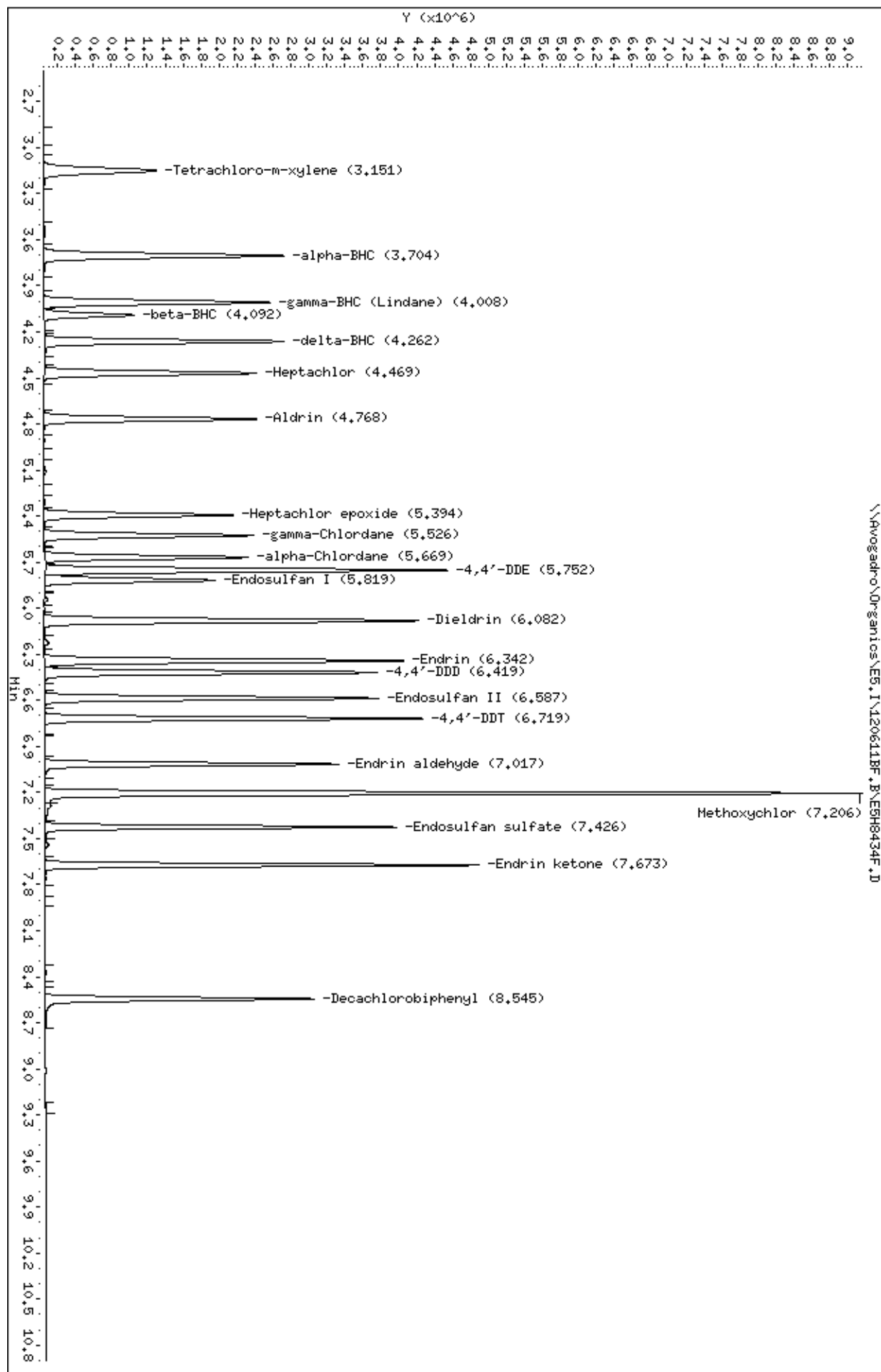
\$ 2	Decachlorobiphenyl			CAS #: 2051-24-3	
8.544	8.544	0.000	4961829 0.16000	0.16	

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BF, B\ESH8434F.D
 Date: 11-JUN-2012 19:22
 Client ID: INDCM5
 Sample Info: INDCM5, INDCM5, indh, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8434R.D
 Lab Smp Id: INDC5M5 Client Smp ID: INDC5M5
 Inj Date : 11-JUN-2012 19:22
 Operator : DL SRC: DL Inst ID: E5.i
 Smp Info : INDC5M5, INDC5M5, , indA.sub, ,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
 Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.D
 Als bottle: 13 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: indA.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.647	3.647	0.000	3300785	0.08000	0.082	(A)

6	alpha-BHC		CAS #: 319-84-6			
4.294	4.294	0.000	12542612	0.08000	0.085	(A)

7	gamma-BHC (Lindane)		CAS #: 58-89-9			
4.674	4.674	0.000	11143451	0.08000	0.084	(A)

10	beta-BHC		CAS #: 319-85-7			
4.753	4.753	0.000	4162152	0.08000	0.079	

11	delta-BHC		CAS #: 319-86-8			
5.081	5.081	0.000	11240387	0.08000	0.084	(A)

8	Heptachlor		CAS #: 76-44-8			
5.169	5.169	0.000	10402932	0.08000	0.080	(A)

9	Aldrin		CAS #: 309-00-2			
5.540	5.540	0.000	9977979	0.08000	0.082	(A)

Data File: \\Avogadro\Organics\E5.I\120611BR.B\E5H8434R.D
Report Date: 13-Jun-2012 14:42

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
14	Heptachlor epoxide			CAS #: 1024-57-3		
6.199	6.199	0.000	8504819 0.08000	0.078		

16	gamma-Chlordane			CAS #: 5103-74-2		
6.421	6.421	0.000	8922390 0.08000	0.082		(A)

17	alpha-Chlordane			CAS #: 5103-71-9		
6.588	6.588	0.000	8612625 0.08000	0.082		(A)

18	4,4'-DDE			CAS #: 72-55-9		
6.755	6.755	0.000	16803774 0.16000	0.16		(A)

15	Endosulfan I			CAS #: 959-98-8		
6.657	6.657	0.000	4250111 0.08000	0.079		

19	Dieldrin			CAS #: 60-57-1		
6.949	6.949	0.000	16298223 0.16000	0.16		(A)

20	Endrin			CAS #: 72-20-8		
7.256	7.256	0.000	9041314 0.16000	0.16		

21	4,4'-DDD			CAS #: 72-54-8		
7.340	7.340	0.000	12347875 0.16000	0.16		(A)

22	Endosulfan II			CAS #: 33213-65-9		
7.454	7.454	0.000	12303610 0.16000	0.16		(A)

23	4,4'-DDT			CAS #: 50-29-3		
7.632	7.632	0.000	12298041 0.16000	0.17		(A)

24	Endrin aldehyde			CAS #: 7421-93-4		
7.757	7.757	0.000	6503433 0.16000	0.16		(A)

26	Methoxychlor			CAS #: 72-43-5		
8.216	8.216	0.000	25917495 0.80000	0.82		(A)

25	Endosulfan sulfate			CAS #: 1031-07-8		
7.994	7.994	0.000	10063619 0.16000	0.17		(A)

27	Endrin ketone			CAS #: 53494-70-5		
8.479	8.479	0.000	7456386 0.16000	0.17		(A)

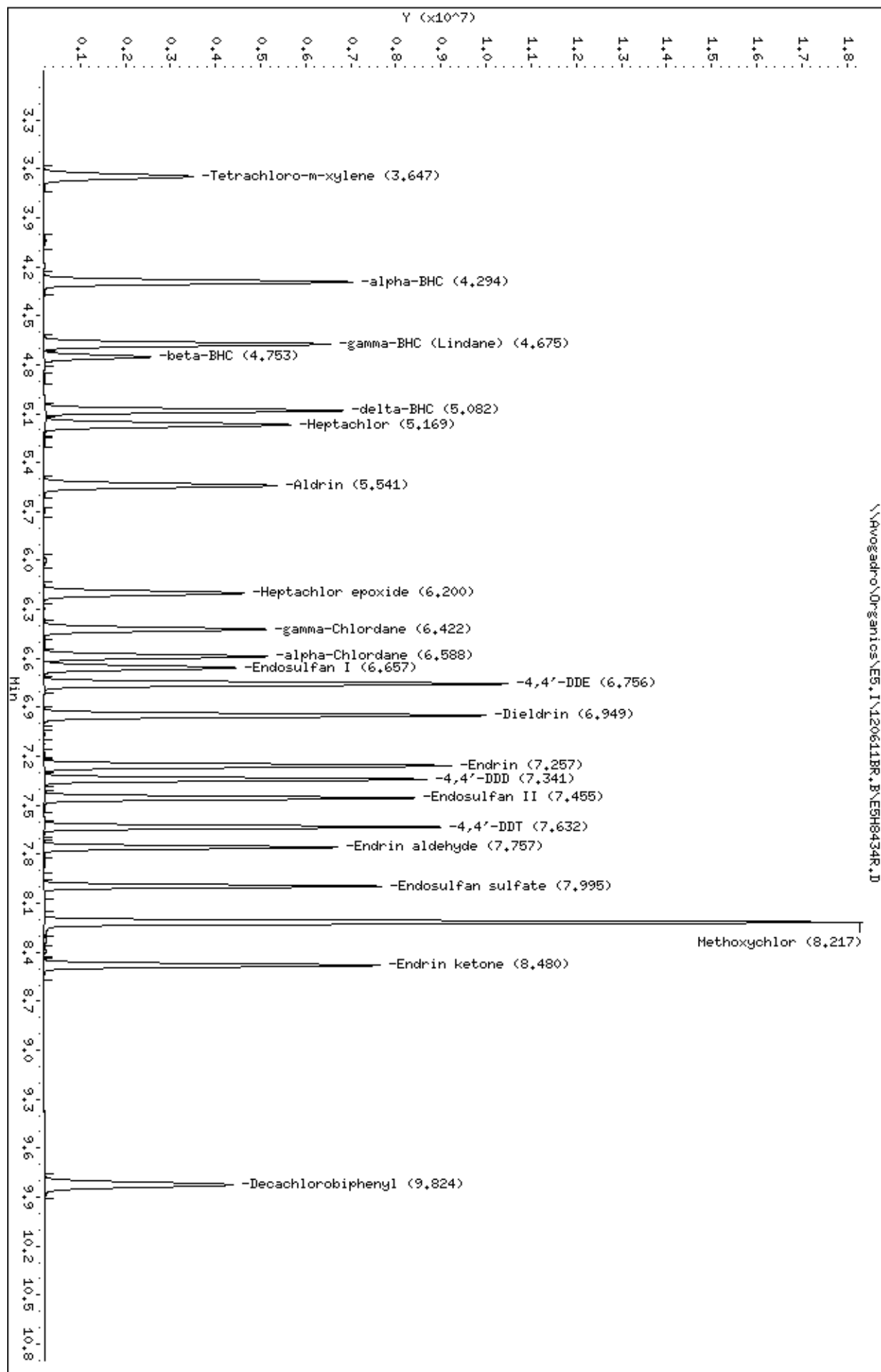
\$ 2	Decachlorobiphenyl			CAS #: 2051-24-3		
9.824	9.824	0.000	9216586 0.16000	0.16		(A)

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8434R.D
 Date: 11-JUN-2012 19:22
 Client ID: INDCM5
 Sample Info: INDCM5, INDCM5, indA, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BF.B\E5H8423F.D
Lab Smp Id: PEMM5 Client Smp ID: PEMM5
Inj Date : 11-JUN-2012 16:43
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : PEMM5,PEMM5,,pem.sub,pem.spk,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BF.B\E58081f.m
Meth Date : 12-Jun-2012 12:32 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.D
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pem.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	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						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL (ng)	FINAL (ug/L)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====
\$ 1						CAS #: 877-09-8
3.148	3.150	-0.002	762238	0.01899	0.019	

6						CAS #: 319-84-6
3.702	3.704	-0.002	303199	0.00959	0.0096	

7						CAS #: 58-89-9
4.007	4.008	-0.001	604098	0.00994	0.0099	

10						CAS #: 319-85-7
4.091	4.091	0.000	246183	0.00996	0.0100	

18						CAS #: 72-55-9
5.752	5.752	0.000	6651	2e-004	0.00024	(a)

20						CAS #: 72-20-8
6.342	6.342	0.000	1242560	0.04726	0.047	

21						CAS #: 72-54-8
6.422	6.419	0.003	15925	4.e-004	0.00040	(a)

			CONCENTRATIONS				
RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====
23	4,4'-DDT				CAS #:	50-29-3	
6.719	6.719	0.000	4310597	0.10167	0.10		

24	Endrin aldehyde				CAS #:	7421-93-4	
7.018	7.016	0.002	9337	4e-004	0.00044		(a)

26	Methoxychlor				CAS #:	72-43-5	
7.207	7.205	0.002	4287265	0.24172	0.24		

27	Endrin ketone				CAS #:	53494-70-5	
7.676	7.673	0.003	32467	0.00108	0.0011		(a)

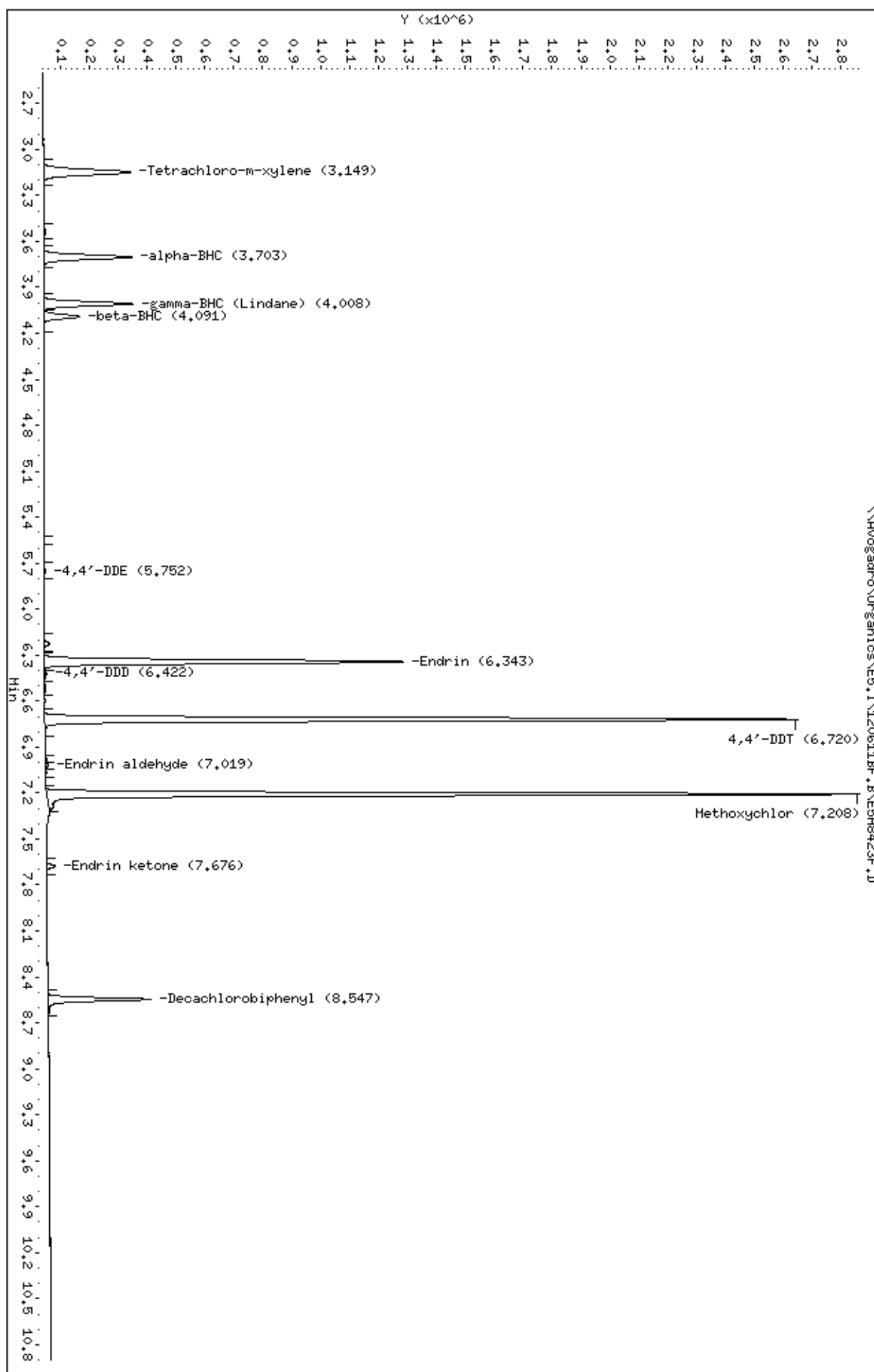
\$ 2	Decachlorobiphenyl				CAS #:	2051-24-3	
8.547	8.544	0.003	606745	0.01941	0.019		

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES.I\120611BF.B\ES08423F.D
 Date : 11-JUN-2012 16:43
 Client ID: PEHH5
 Sample Info: PEHH5,PEHH5,,pem,sub,pem,spk,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\Avogadro\Organics\E5.I\120611BR.B\E5H8423R.D
Lab Smp Id: PEMM5 Client Smp ID: PEMM5
Inj Date : 11-JUN-2012 16:43
Operator : DL SRC: DL Inst ID: E5.i
Smp Info : PEMM5,PEMM5,,pem.sub,pem.spk,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E5.I\120611BR.B\E58081r.m
Meth Date : 12-Jun-2012 12:47 dlucas Quant Type: ESTD
Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.D
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pem.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	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
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.647	3.647	0.000	758804	0.01876	0.019	

6 alpha-BHC					CAS #: 319-84-6	
4.292	4.294	-0.002	1420948	0.00960	0.0096	

7 gamma-BHC (Lindane)					CAS #: 58-89-9	
4.674	4.674	0.000	1319167	0.00996	0.0100	

10 beta-BHC					CAS #: 319-85-7	
4.752	4.753	-0.001	521911	0.00994	0.0099	

18 4,4'-DDE					CAS #: 72-55-9	
6.757	6.755	0.002	31814	3e-004	0.00031	(a)

20 Endrin					CAS #: 72-20-8	
7.257	7.256	0.001	2693411	0.04690	0.047	

21 4,4'-DDD					CAS #: 72-54-8	
7.341	7.340	0.001	33276	4e-004	0.00045	(a)

			CONCENTRATIONS				
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====
23	4,4'-DDT				CAS #:	50-29-3	
7.632	7.632	0.000	7482858	0.10175	0.10		

24	Endrin aldehyde				CAS #:	7421-93-4	
7.756	7.757	-0.001	23319	6e-004	0.00058		(a)

26	Methoxychlor				CAS #:	72-43-5	
8.217	8.216	0.001	7848951	0.24927	0.25		

27	Endrin ketone				CAS #:	53494-70-5	
8.483	8.479	0.004	52289	0.00117	0.0012		(a)

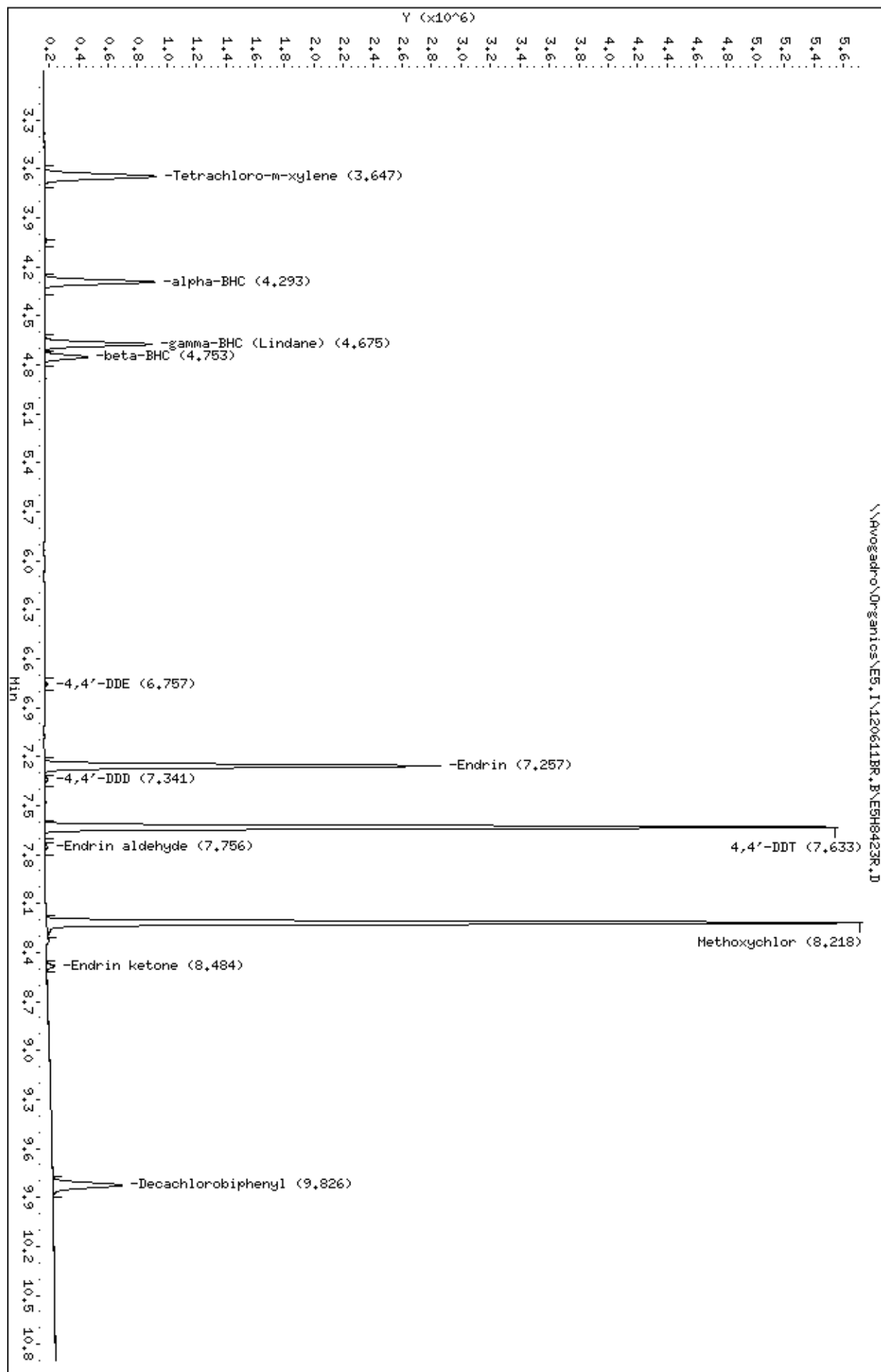
\$ 2	Decachlorobiphenyl				CAS #:	2051-24-3	
9.826	9.824	0.002	1083006	0.01902	0.019		

QC Flag Legend

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

Data File: \\Avogadro\Organics\ES, I\120611BR, B\ESH8423R.D
 Date: 11-JUN-2012 16:43
 Client ID: PEHMS
 Sample Info: PEHMS, PEHMS, pen, sub, pen, spk,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL SRC: DL
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8771F.D
 Lab Smp Id: INDC3ML Client Smp ID: INDC3ML
 Inj Date : 18-JUN-2012 15:08
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : INDC3ML, INDC3ML, , indA.sub, ,
 Misc Info : 2, , , 1
 Comment :
 Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
 Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.D
 Als bottle: 2 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.160	3.150	0.010	801832 0.02000	0.020		(a)

6	alpha-BHC		CAS #: 319-84-6			
3.715	3.704	0.011	653185 0.02000	0.021		(a)

7	gamma-BHC (Lindane)		CAS #: 58-89-9			
4.019	4.008	0.011	1215114 0.02000	0.020		(a)

10	beta-BHC		CAS #: 319-85-7			
4.103	4.091	0.012	476535 0.02000	0.019		(a)

11	delta-BHC		CAS #: 319-86-8			
4.275	4.262	0.013	1253636 0.02000	0.020		(a)

8	Heptachlor		CAS #: 76-44-8			
4.480	4.469	0.011	1204146 0.02000	0.020		(a)

9	Aldrin		CAS #: 309-00-2			
4.779	4.768	0.011	1105105 0.02000	0.020		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL -AMT RESPONSE (ng)	ON -COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
5.405	5.394	0.011	996748 0.02000	0.020		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
5.536	5.525	0.011	548657 0.02000	0.020		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
5.680	5.669	0.011	981872 0.02000	0.019		(a)

18 4,4'-DDE				CAS #: 72-55-9		
5.763	5.752	0.011	1142139 0.04000	0.041		(a)

15 Endosulfan I				CAS #: 959-98-8		
5.829	5.819	0.010	488257 0.02000	0.020		(a)

19 Dieldrin				CAS #: 60-57-1		
6.092	6.081	0.011	1995548 0.04000	0.040		(a)

20 Endrin				CAS #: 72-20-8		
6.352	6.342	0.010	1080186 0.04000	0.041		(a)

21 4,4'-DDD				CAS #: 72-54-8		
6.430	6.419	0.011	1620004 0.04000	0.040		(a)

22 Endosulfan II				CAS #: 33213-65-9		
6.595	6.586	0.009	1605820 0.04000	0.039		(a)

23 4,4'-DDT				CAS #: 50-29-3		
6.729	6.719	0.010	1608304 0.04000	0.038		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.025	7.016	0.009	814640 0.04000	0.038		(a)

26 Methoxychlor				CAS #: 72-43-5		
7.215	7.205	0.010	3548309 0.20000	0.20		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.435	7.425	0.010	1354588 0.04000	0.038		(a)

27 Endrin ketone				CAS #: 53494-70-5		
7.682	7.673	0.009	1192581 0.04000	0.040		(a)

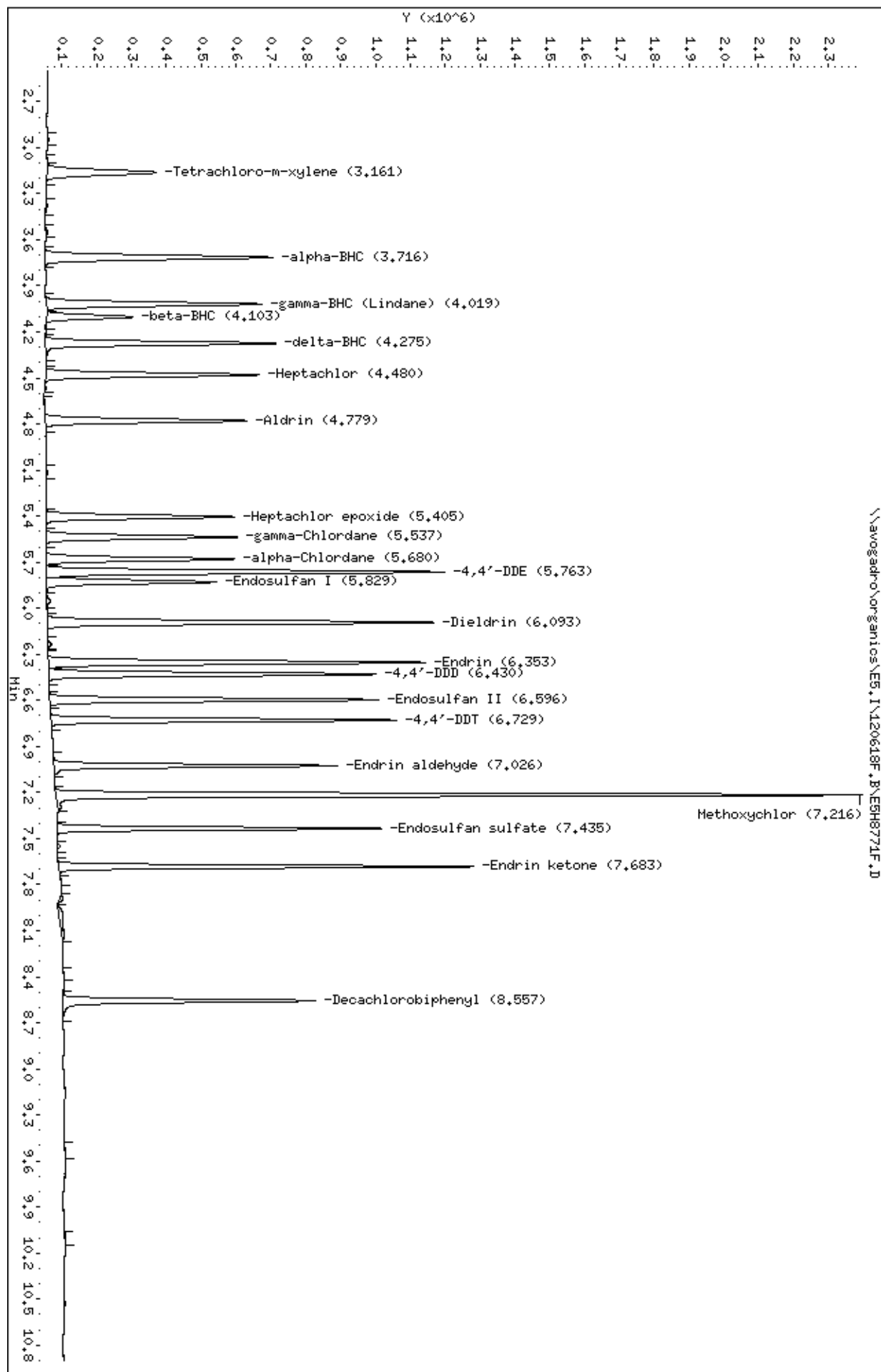
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
8.556	8.544	0.012	1215302 0.04000	0.039		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\ES.I\120618F.B\ES08771F.D
 Date: 18-JUN-2012 15:08
 Client ID: INDC3ML
 Sample Info: INDC3ML, INDC3ML,, indh,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8771R.D
 Lab Smp Id: INDC3ML Client Smp ID: INDC3ML
 Inj Date : 18-JUN-2012 15:08
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : INDC3ML, INDC3ML, , indA.sub, ,
 Misc Info : 2, , , 1
 Comment :
 Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
 Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.D
 Als bottle: 2 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.653	3.647	0.006	834501 0.02000	0.021		(a)

6	alpha-BHC		CAS #: 319-84-6			
4.298	4.294	0.004	2924101 0.02000	0.020		(a)

7	gamma-BHC (Lindane)		CAS #: 58-89-9			
4.679	4.674	0.005	2573518 0.02000	0.019		(a)

10	beta-BHC		CAS #: 319-85-7			
4.757	4.753	0.004	1033273 0.02000	0.020		(a)

11	delta-BHC		CAS #: 319-86-8			
5.085	5.081	0.004	2596907 0.02000	0.019		(a)

8	Heptachlor		CAS #: 76-44-8			
5.172	5.169	0.003	2459153 0.02000	0.019		(a)

9	Aldrin		CAS #: 309-00-2			
5.545	5.540	0.005	2276635 0.02000	0.019		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
6.204	6.199	0.005	1961641 0.02000	0.018		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
6.425	6.421	0.004	1904746 0.02000	0.018		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
6.590	6.588	0.002	1822461 0.02000	0.017		(a)

18 4,4'-DDE				CAS #: 72-55-9		
6.758	6.755	0.003	3560105 0.04000	0.035		(a)

15 Endosulfan I				CAS #: 959-98-8		
6.660	6.657	0.003	946156 0.02000	0.018		(a)

19 Dieldrin				CAS #: 60-57-1		
6.951	6.949	0.002	3525649 0.04000	0.035		(a)

20 Endrin				CAS #: 72-20-8		
7.260	7.256	0.004	2002523 0.04000	0.035		(a)

21 4,4'-DDD				CAS #: 72-54-8		
7.343	7.340	0.003	2562269 0.04000	0.034		(a)

22 Endosulfan II				CAS #: 33213-65-9		
7.457	7.454	0.003	2508456 0.04000	0.034		(a)

23 4,4'-DDT				CAS #: 50-29-3		
7.635	7.632	0.003	2416070 0.04000	0.033		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.760	7.757	0.003	1329327 0.04000	0.033		(a)

26 Methoxychlor				CAS #: 72-43-5		
8.220	8.216	0.004	5817800 0.20000	0.18		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.998	7.994	0.004	2051960 0.04000	0.034		(a)

27 Endrin ketone				CAS #: 53494-70-5		
8.484	8.479	0.005	1582938 0.04000	0.035		(a)

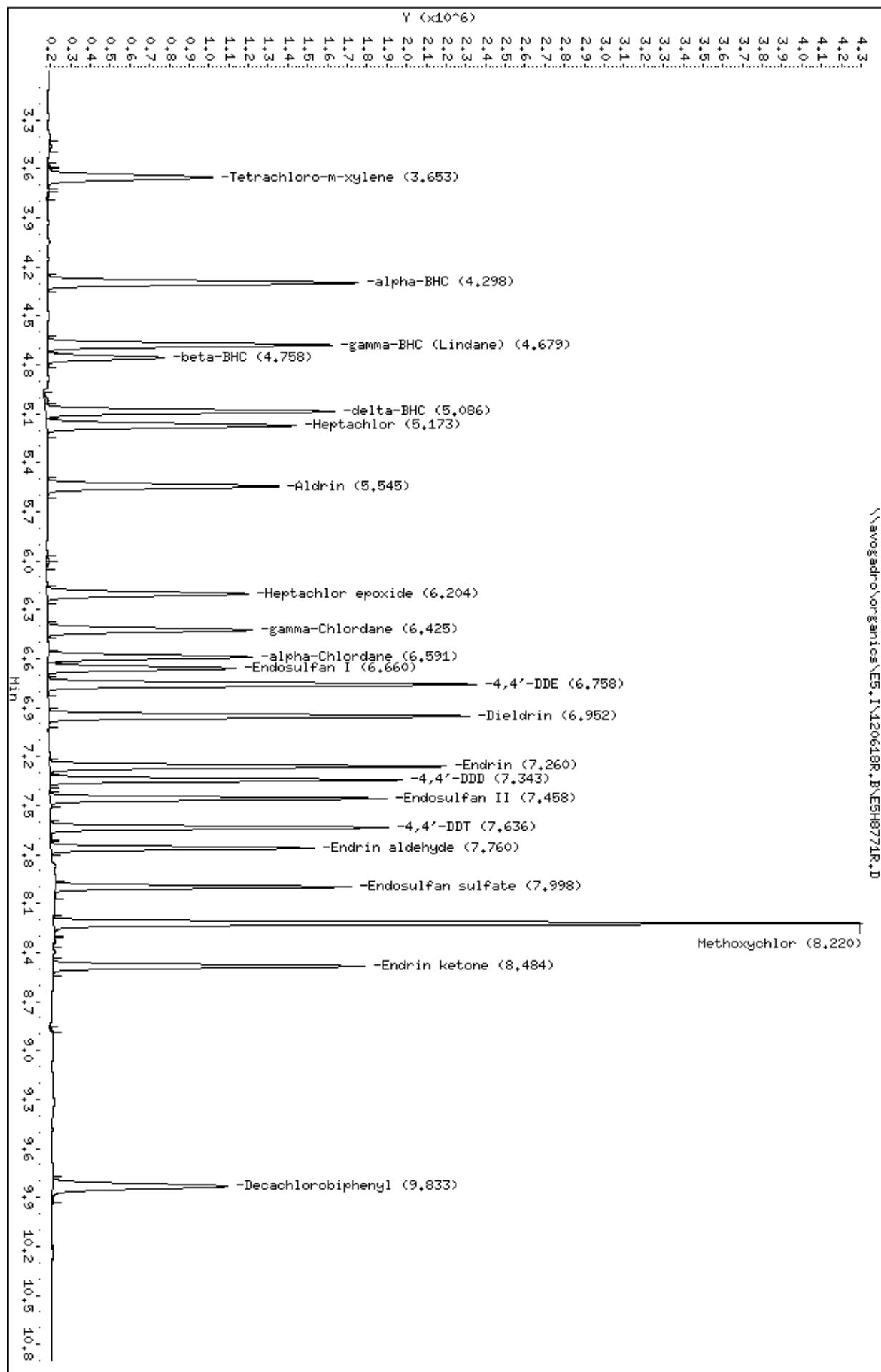
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
9.832	9.824	0.008	2058755 0.04000	0.036		(a)

QC Flag Legend

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

Data File: \\avogadro\organicos\ES, I\120618R, B\ESH8771R.D
 Date: 18-JUN-2012 15:08
 Client ID: INDC3ML
 Sample Info: INDC3ML, INDC3ML, indh, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8772F.D
Lab Smp Id: PEMML Client Smp ID: PEMML
Inj Date : 18-JUN-2012 15:33
Operator : DL/GM SRC: DL/GM Inst ID: E5.i
Smp Info : PEMML,PEMML,,pem.sub,pem.spk,
Misc Info : 3,,PEM,1,,1000,,
Comment :
Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.D
Als bottle: 1 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

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.162	3.150	0.012	804377	0.02004	0.020	

6 alpha-BHC					CAS #: 319-84-6	
3.714	3.704	0.010	321038	0.01015	0.010	

7 gamma-BHC (Lindane)					CAS #: 58-89-9	
4.019	4.008	0.011	627211	0.01032	0.010	

10 beta-BHC					CAS #: 319-85-7	
4.102	4.091	0.011	245621	0.00994	0.0099	

18 4,4'-DDE					CAS #: 72-55-9	
5.763	5.752	0.011	5930	2e-004	0.00021	(a)

20 Endrin					CAS #: 72-20-8	
6.353	6.342	0.011	1287200	0.04896	0.049	

21 4,4'-DDD					CAS #: 72-54-8	
6.431	6.419	0.012	59370	0.00149	0.0015	(a)

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ng)	(ug/L)	=====	=====
23	4,4'-DDT				CAS #: 50-29-3	
6.729	6.719	0.010	4373276	0.10314	0.10	

24	Endrin aldehyde				CAS #: 7421-93-4	
7.027	7.016	0.011	8669	0.00041	0.00041	(a)

26	Methoxychlor				CAS #: 72-43-5	
7.215	7.205	0.010	4561537	0.25718	0.26	

27	Endrin ketone				CAS #: 53494-70-5	
7.680	7.673	0.007	38760	0.00129	0.0013	(a)

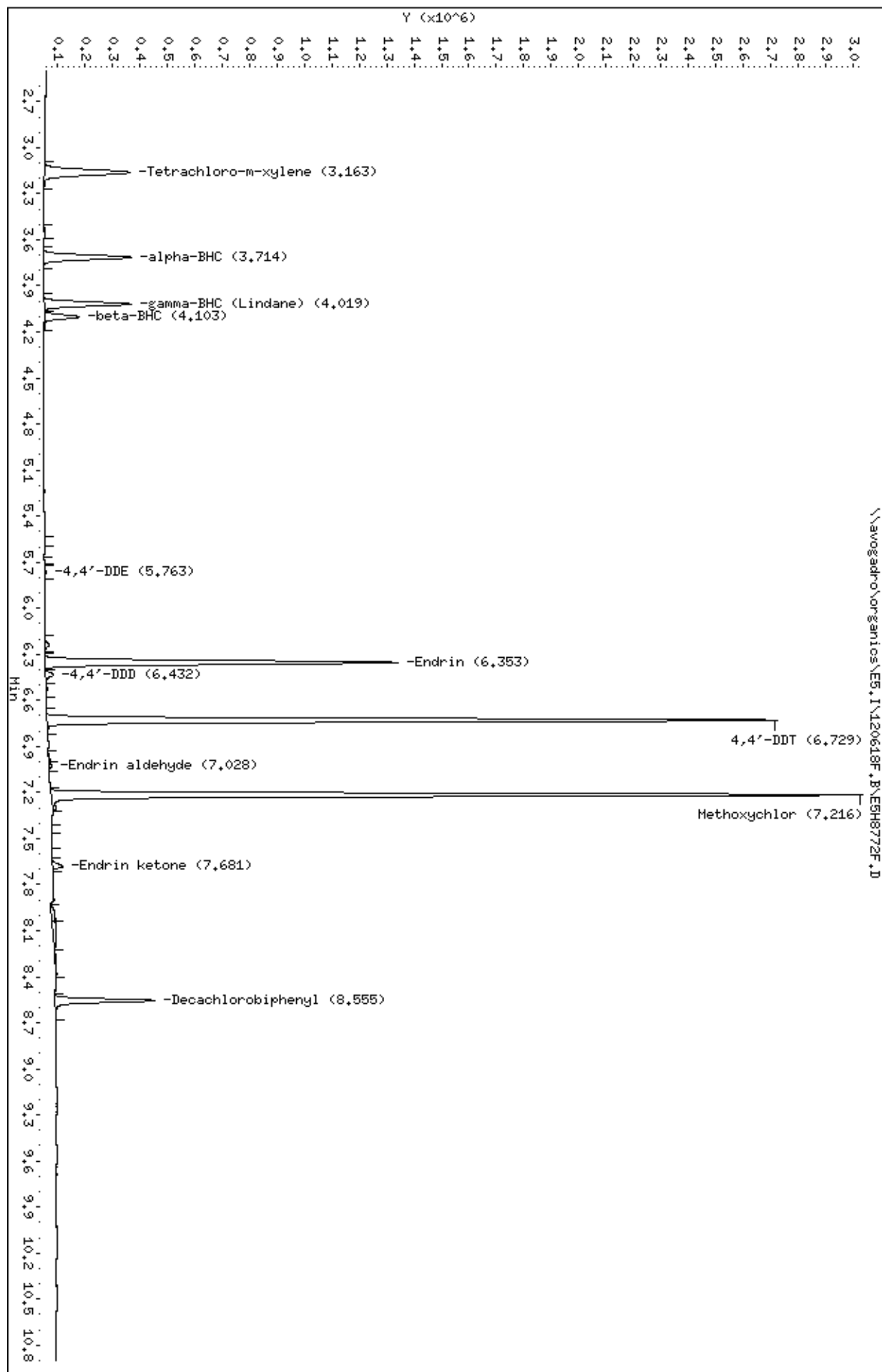
\$ 2	Decachlorobiphenyl				CAS #: 2051-24-3	
8.555	8.544	0.011	621450	0.01988	0.020	

QC Flag Legend

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

Data File: \\avogadro\organicos\ES.1\120618F.B\ES08772F.D
Date: 18-JUN-2012 15:33
Client ID: PEHML
Sample Info: PEHML,PEHML,,pen,sub,pen,spk,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: ES.i
Operator: DL/GH SRC: DL/GH
Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8772R.D
 Lab Smp Id: PEMML Client Smp ID: PEMML
 Inj Date : 18-JUN-2012 15:33
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : PEMML,PEMML,,pem.sub,pem.spk,
 Misc Info : 3,,PEM,1,,1000,,
 Comment :
 Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
 Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.D
 Als bottle: 1 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL (ng)	FINAL (ug/L)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====

\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.651	3.647	0.004	831375	0.02055	0.020	

6	alpha-BHC		CAS #: 319-84-6			
4.297	4.294	0.003	1482387	0.01001	0.010	

7	gamma-BHC (Lindane)		CAS #: 58-89-9			
4.678	4.674	0.004	1355215	0.01023	0.010	

10	beta-BHC		CAS #: 319-85-7			
4.756	4.753	0.003	546062	0.01040	0.010	

20	Endrin		CAS #: 72-20-8			
7.260	7.256	0.004	2483352	0.04325	0.043	

21	4,4'-DDD		CAS #: 72-54-8			
7.343	7.340	0.003	78102	0.00105	0.0010	(a)

23	4,4'-DDT		CAS #: 50-29-3			
7.635	7.632	0.003	6638669	0.09027	0.090	

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE RATIO
=====	=====	=====	=====	=====	=====	=====
24 Endrin aldehyde CAS #: 7421-93-4						
7.757	7.757	0.000	16668	4e-004	0.00042	(a)

26 Methoxychlor CAS #: 72-43-5						
8.220	8.216	0.004	7616603	0.24189	0.24	

27 Endrin ketone CAS #: 53494-70-5						
8.484	8.479	0.005	49501	0.00110	0.0011	(a)

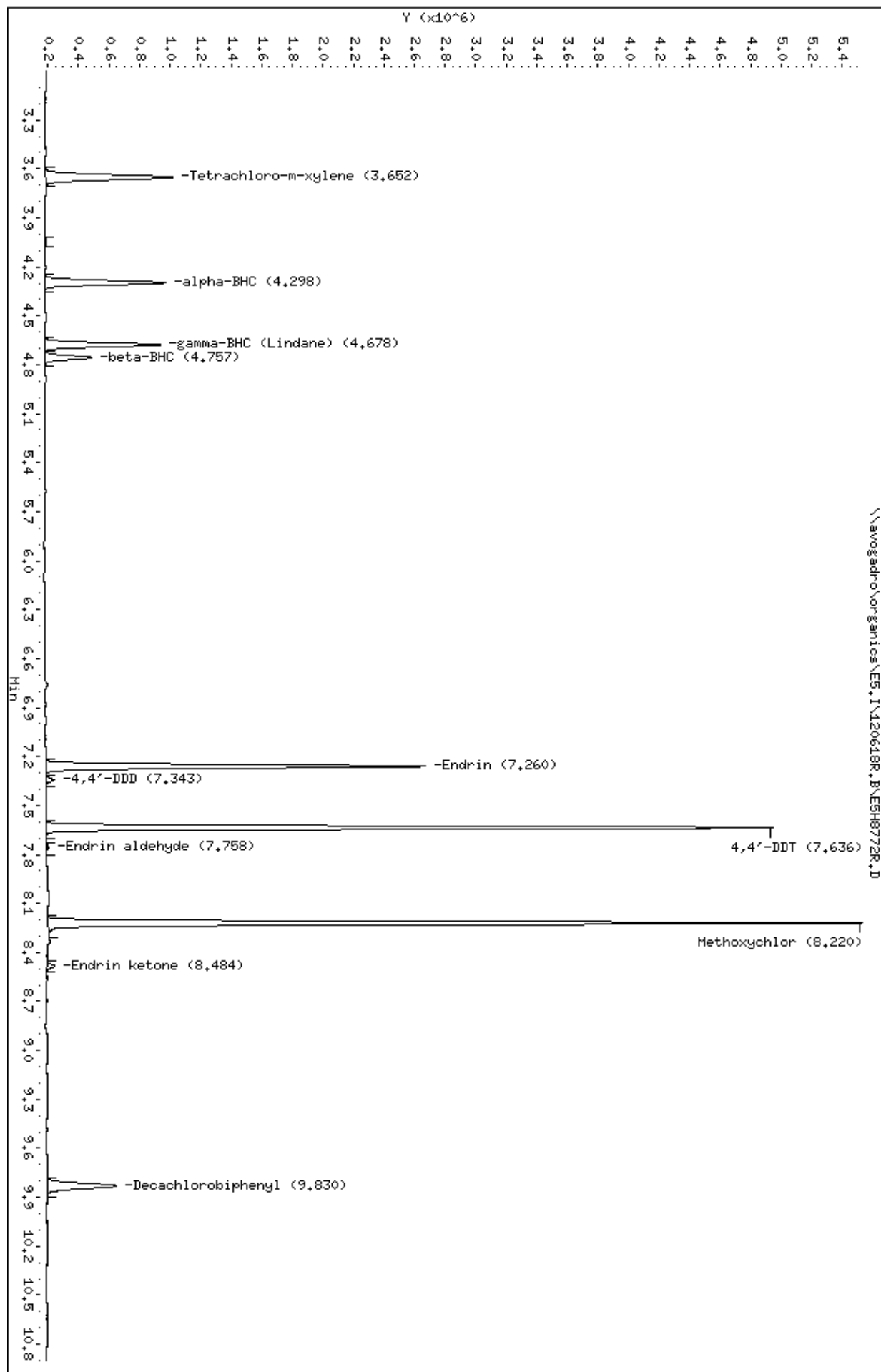
\$ 2 Decachlorobiphenyl CAS #: 2051-24-3						
9.830	9.824	0.006	1044748	0.01835	0.018	

QC Flag Legend

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

Data File: \\avogadro\organics\ES.1\120618R.B\ES08772R.D
 Date : 18-JUN-2012 15:33
 Client ID: PEHML
 Sample Info: PEHML,PEHML,,pen,sub,pen,spk,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8773F.D
 Lab Smp Id: TOXAPH3ML Client Smp ID: TOXAPH3ML
 Inj Date : 18-JUN-2012 15:47
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : TOXAPH3ML, TOXAPH3ML,, somtox.sub,,
 Misc Info : 2,,,1
 Comment :
 Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
 Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.D
 Als bottle: 3 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

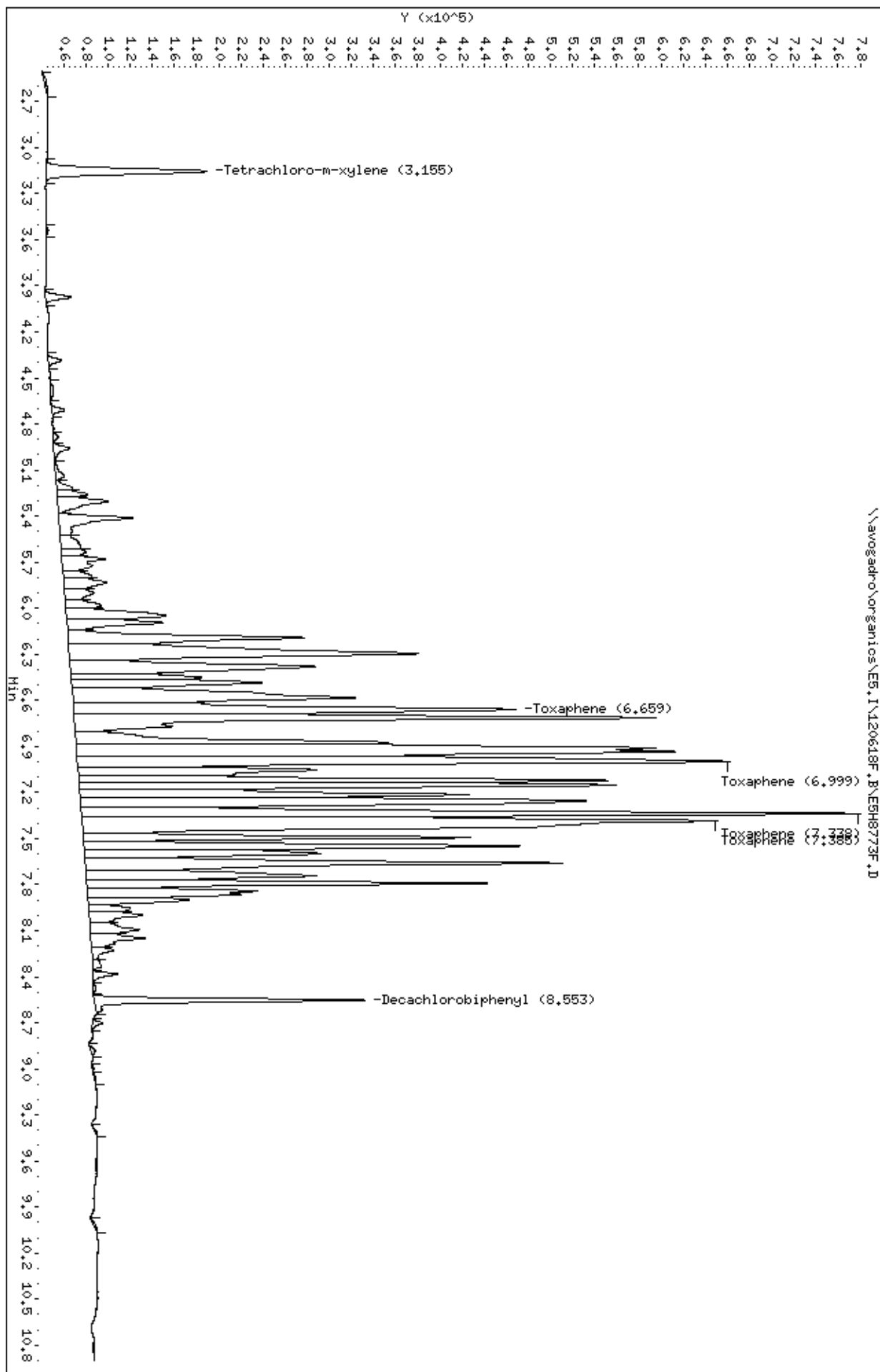
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.154	3.150	0.004	382282 0.02000	0.0095		(a)
\$ 2	Decachlorobiphenyl		CAS #: 2051-24-3			
8.553	8.544	0.009	425985 0.04000	0.014		(a)
28	Toxaphene		CAS #: 8001-35-2			
6.659	6.651	0.008	400540 2.00000	0.52 80.00- 120.00	100.00(a)	
6.999	6.993	0.006	590848 2.00000	0.70 130.87- 170.87	147.51	
7.338	7.333	0.005	704707 2.00000	0.72 156.07- 196.07	175.94	
7.384	7.382	0.002	574845 2.00000	0.58 118.30- 158.30	143.52	
Average of Peak Amounts =			0.63000			

QC Flag Legend

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

Data File: \\avogadro\organics\ES.1\120618F.B\ES18773F.D
 Date : 18-JUN-2012 15:47
 Client ID: TOXAPH3ML
 Sample Info: TOXAPH3ML,TOXAPH3ML,somtox,sub,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8773R.D
 Lab Smp Id: TOXAPH3ML Client Smp ID: TOXAPH3ML
 Inj Date : 18-JUN-2012 15:47
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : TOXAPH3ML, TOXAPH3ML,, somtox.sub,,
 Misc Info : 2,,,1
 Comment :
 Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
 Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.D
 Als bottle: 3 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

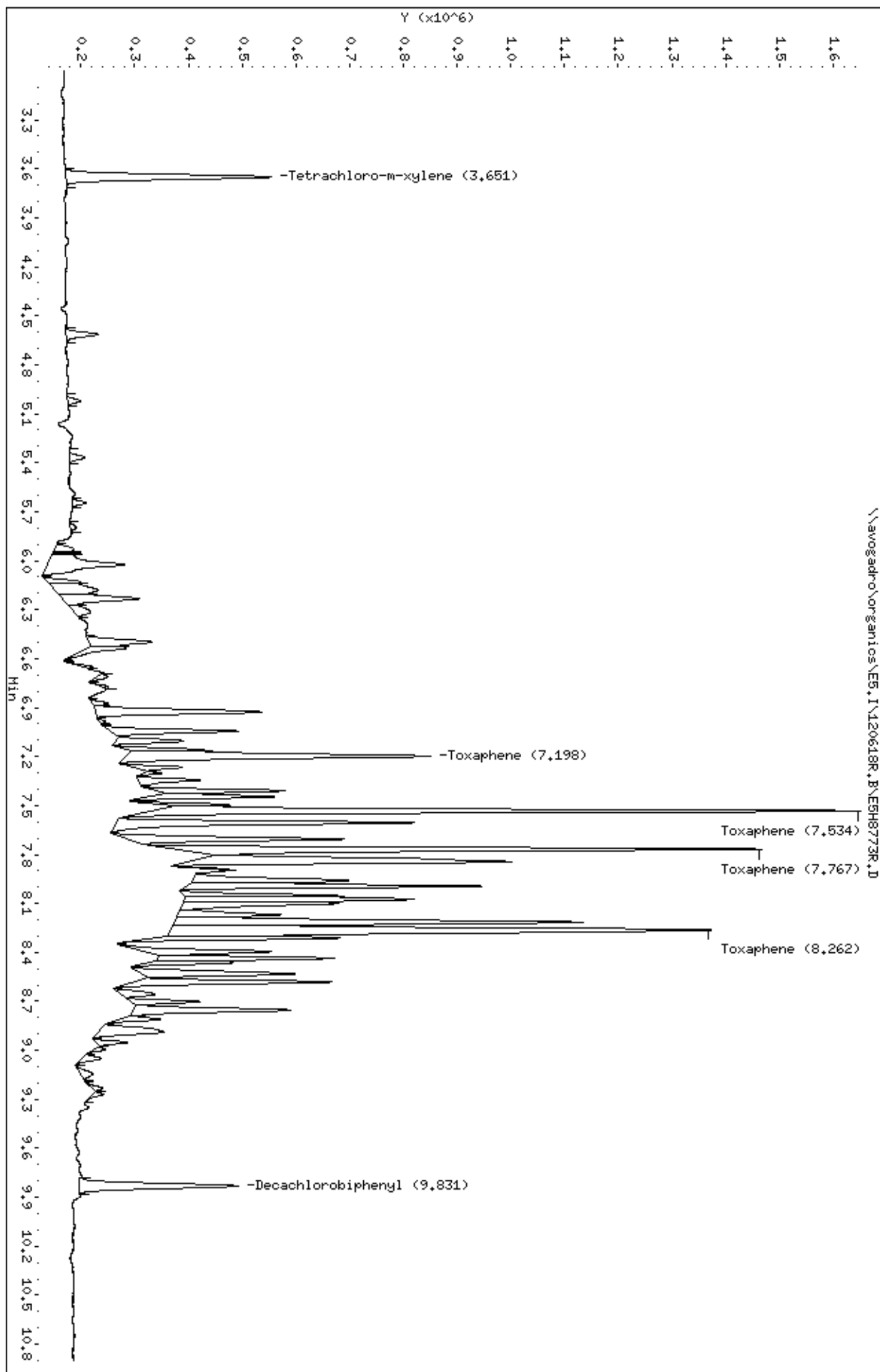
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.650	3.647	0.003	383889 0.02000	0.0095		(a)
\$ 2					CAS #: 2051-24-3	
9.830	9.824	0.006	663790 0.04000	0.012		(a)
28					CAS #: 8001-35-2	
7.198	7.197	0.001	567290 2.00000	0.55	80.00- 120.00	100.00(a)
7.534	7.532	0.002	1318697 2.00000	0.58	212.07- 252.07	232.46
7.767	7.764	0.003	1091177 2.00000	0.50	175.05- 215.05	192.35
8.262	8.260	0.002	1007692 2.00000	0.55	161.01- 201.01	177.63
Average of Peak Amounts =			0.54500			

QC Flag Legend

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

Data File: \\avogadro\organics\ES.1\120618R.B\ES08773R.D
 Date : 18-JUN-2012 15:47
 Client ID: TOXAPH3ML
 Sample Info: TOXAPH3ML,TOXAPH3ML,somtox,sub,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8784F.D
 Lab Smp Id: PEMMM Client Smp ID: PEMMM
 Inj Date : 18-JUN-2012 18:25
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : PEMMM,PEMMM,,pem.sub,pem.spk,
 Misc Info : 3,,PEM,1,,1000,,
 Comment :
 Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
 Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.D
 Als bottle: 1 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

CONCENTRATIONS						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL (ng)	FINAL (ug/L)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====

\$ 1	Tetrachloro-m-xylene				CAS #: 877-09-8	
3.156	3.150	0.006	861448	0.02146	0.021	

6	alpha-BHC				CAS #: 319-84-6	
3.708	3.704	0.004	339180	0.01073	0.011	

7	gamma-BHC (Lindane)				CAS #: 58-89-9	
4.010	4.008	0.002	673734	0.01109	0.011	

10	beta-BHC				CAS #: 319-85-7	
4.093	4.091	0.002	274158	0.01109	0.011	

18	4,4'-DDE				CAS #: 72-55-9	
5.752	5.752	0.000	7956	3e-004	0.00029	(a)

20	Endrin				CAS #: 72-20-8	
6.341	6.342	-0.001	1325362	0.05041	0.050	

21	4,4'-DDD				CAS #: 72-54-8	
6.421	6.419	0.002	91303	0.00229	0.0023	(a)

			CONCENTRATIONS				
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====
23	4,4'-DDT					CAS #: 50-29-3	
6.718	6.719	-0.001	4413994	0.10411	0.10		

24	Endrin aldehyde					CAS #: 7421-93-4	
7.016	7.016	0.000	12136	6e-004	0.00057		(a)

26	Methoxychlor					CAS #: 72-43-5	
7.205	7.205	0.000	4724720	0.26638	0.27		

27	Endrin ketone					CAS #: 53494-70-5	
7.672	7.673	-0.001	54885	0.00183	0.0018		(a)

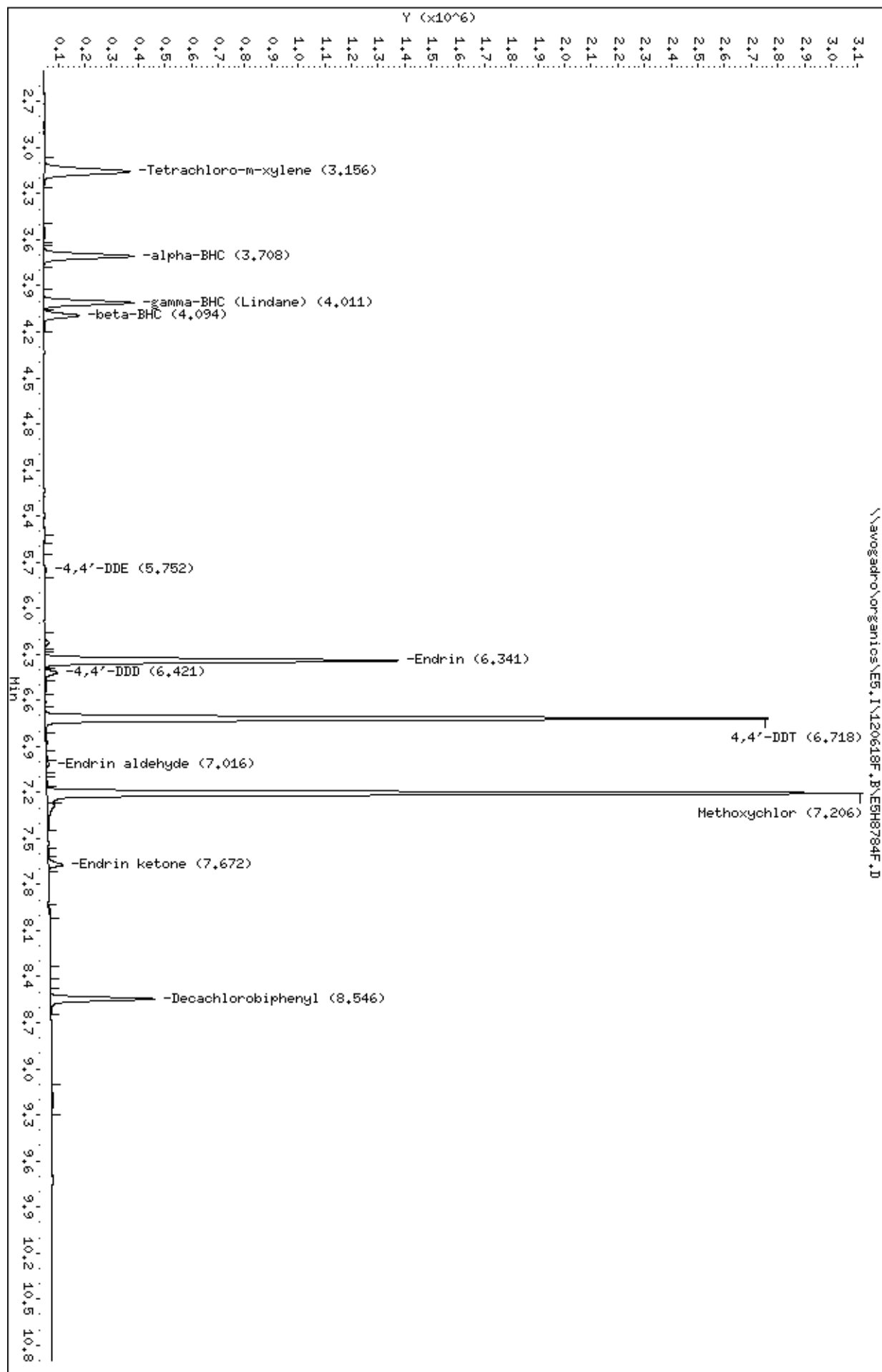
\$ 2	Decachlorobiphenyl					CAS #: 2051-24-3	
8.545	8.544	0.001	654695	0.02094	0.021		

QC Flag Legend

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

Data File: \\avogadro\organicos\ES.1\120618F.B\ES18784F.D
 Date : 18-JUN-2012 18:25
 Client ID: PEHHH
 Sample Info: PEHHH,PEHHH,,pen,sub,pen,spk,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8784R.D
 Lab Smp Id: PEMMM Client Smp ID: PEMMM
 Inj Date : 18-JUN-2012 18:25
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : PEMMM,PEMMM,,pem.sub,pem.spk,
 Misc Info : 3,,PEM,1,,1000,,
 Comment :
 Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
 Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.D
 Als bottle: 1 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

CONCENTRATIONS						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL (ng)	FINAL (ug/L)	TARGET RANGE RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.649	3.647	0.002	820089	0.02027	0.020	

6 alpha-BHC CAS #: 319-84-6						
4.293	4.294	-0.001	1474617	0.00996	0.0100	

7 gamma-BHC (Lindane) CAS #: 58-89-9						
4.673	4.674	-0.001	1356003	0.01024	0.010	

10 beta-BHC CAS #: 319-85-7						
4.752	4.753	-0.001	548077	0.01044	0.010	

18 4,4'-DDE CAS #: 72-55-9						
6.753	6.755	-0.002	31081	3e-004	0.00031	(a)

20 Endrin CAS #: 72-20-8						
7.254	7.256	-0.002	2586670	0.04504	0.045	

21 4,4'-DDD CAS #: 72-54-8						
7.338	7.340	-0.002	116989	0.00157	0.0016	(a)

				CONCENTRATIONS					
				ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO		
=====	=====	=====	=====	=====	=====	=====	=====		
23	4,4'-DDT					CAS #: 50-29-3			
7.629	7.632	-0.003	6834581	0.09293	0.093				

24	Endrin aldehyde					CAS #: 7421-93-4			
7.752	7.757	-0.005	17825	4e-004	0.00045			(a)	

26	Methoxychlor					CAS #: 72-43-5			
8.213	8.216	-0.003	7511699	0.23856	0.24				

27	Endrin ketone					CAS #: 53494-70-5			
8.478	8.479	-0.001	60993	0.00136	0.0014			(a)	

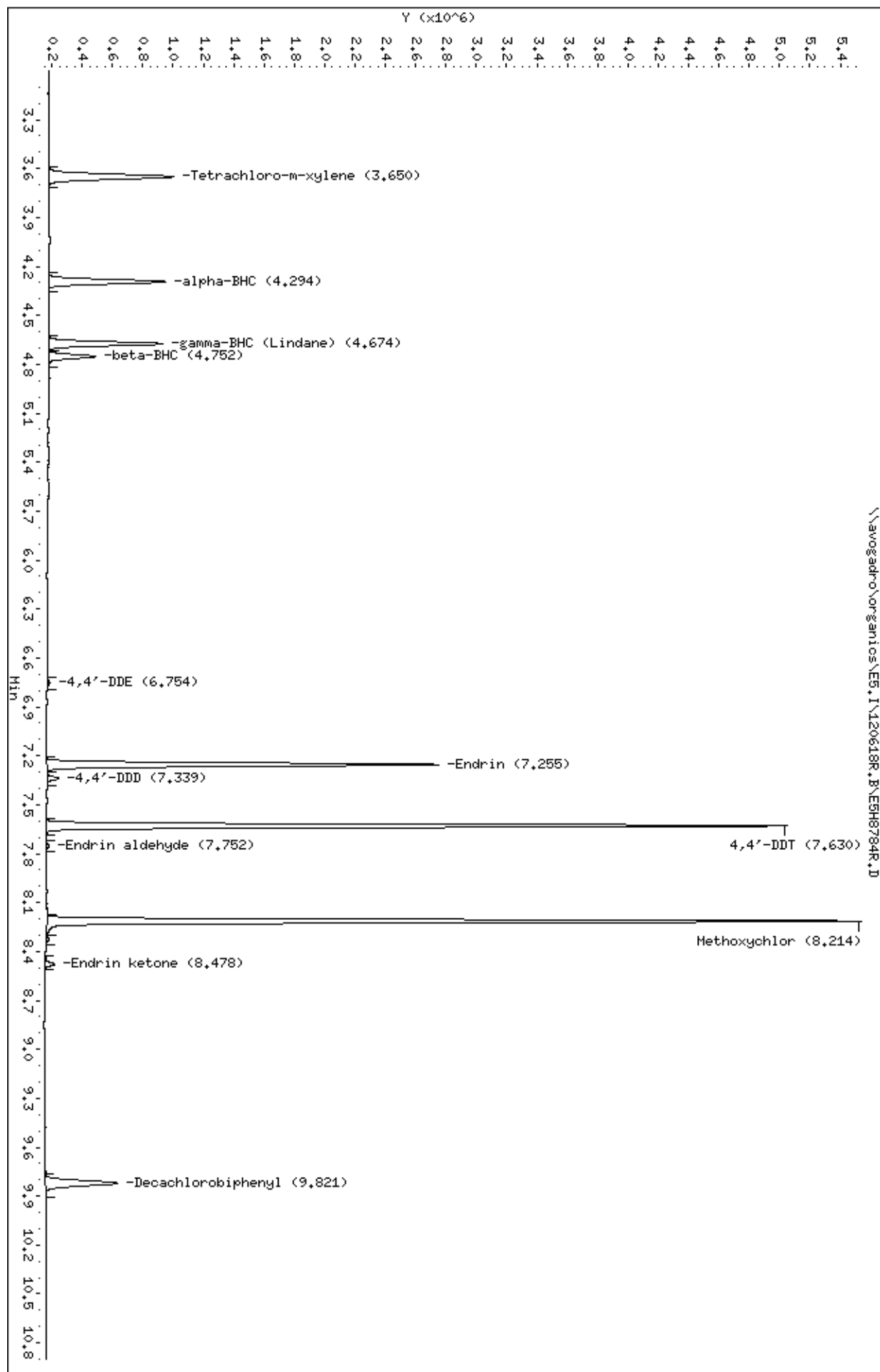
\$ 2	Decachlorobiphenyl					CAS #: 2051-24-3			
9.820	9.824	-0.004	1098867	0.01930	0.019				

QC Flag Legend

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

Data File: \\avogadro\organics\ES.1\120618R.B\ESH8784R.D
 Date : 18-JUN-2012 18:25
 Client ID: PEHHH
 Sample Info: PEHHH,PEHHH,,pen,sub,pen,spk,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8785F.D
 Lab Smp Id: INDC3MM Client Smp ID: INDC3MM
 Inj Date : 18-JUN-2012 18:40
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : INDC3MM, INDC3MM, , indA.sub, ,
 Misc Info : 2, , , 1
 Comment :
 Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
 Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.D
 Als bottle: 2 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.154	3.150	0.004	881005 0.02000	0.022		(a)

6					CAS #: 319-84-6	
3.708	3.704	0.004	684164 0.02000	0.022		(a)

7					CAS #: 58-89-9	
4.011	4.008	0.003	1326735 0.02000	0.022		(a)

10					CAS #: 319-85-7	
4.095	4.091	0.004	540523 0.02000	0.022		(a)

11					CAS #: 319-86-8	
4.266	4.262	0.004	1344995 0.02000	0.022		(a)

8					CAS #: 76-44-8	
4.472	4.469	0.003	1277736 0.02000	0.022		(a)

9					CAS #: 309-00-2	
4.771	4.768	0.003	1212973 0.02000	0.022		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL -AMT	ON -COL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ng)	(ng)	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
5.395	5.394	0.001	1085217 0.02000	0.022		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
5.528	5.525	0.003	609767 0.02000	0.022		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
5.671	5.669	0.002	1082551 0.02000	0.021		(a)

18 4,4'-DDE				CAS #: 72-55-9		
5.754	5.752	0.002	1211005 0.04000	0.044		(a)

15 Endosulfan I				CAS #: 959-98-8		
5.820	5.819	0.001	533750 0.02000	0.022		(a)

19 Dieldrin				CAS #: 60-57-1		
6.083	6.081	0.002	2160589 0.04000	0.043		(a)

20 Endrin				CAS #: 72-20-8		
6.344	6.342	0.002	1121813 0.04000	0.043		(a)

21 4,4'-DDD				CAS #: 72-54-8		
6.421	6.419	0.002	1797977 0.04000	0.045		(a)

22 Endosulfan II				CAS #: 33213-65-9		
6.588	6.586	0.002	1765783 0.04000	0.043		(a)

23 4,4'-DDT				CAS #: 50-29-3		
6.720	6.719	0.001	1706426 0.04000	0.040		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.018	7.016	0.002	905956 0.04000	0.043		(a)

26 Methoxychlor				CAS #: 72-43-5		
7.208	7.205	0.003	3729743 0.20000	0.21		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.428	7.425	0.003	1499630 0.04000	0.042		(a)

27 Endrin ketone				CAS #: 53494-70-5		
7.676	7.673	0.003	1312605 0.04000	0.044		(a)

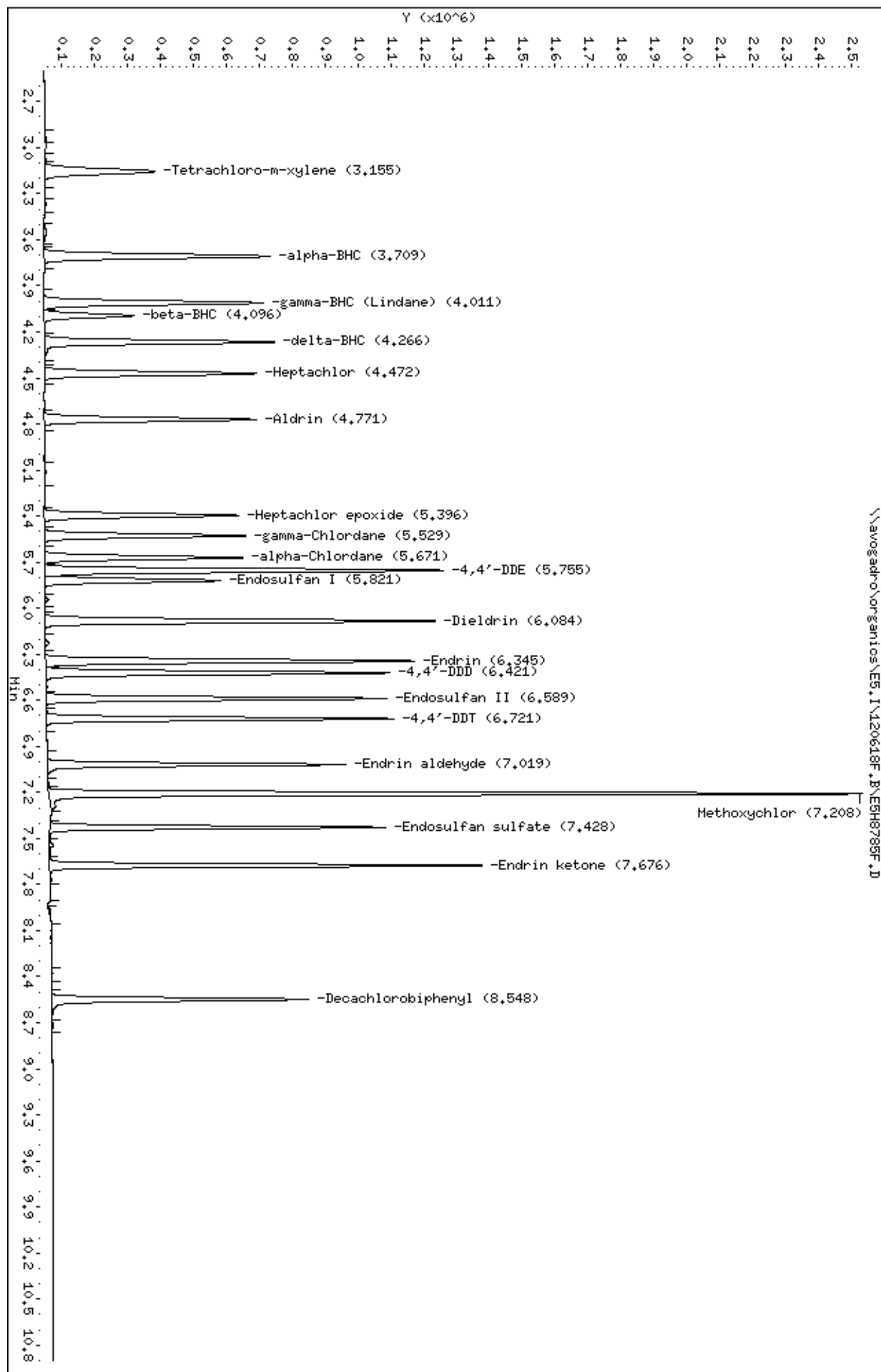
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
8.548	8.544	0.004	1320773 0.04000	0.042		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\ES.1\120618F.B\ES18789F.D
 Date: 18-JUN-2012 18:40
 Client ID: INDC3M
 Sample Info: INDC3M, INDC3M, indh, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL/GM SRC: DL/GM
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8785R.D
 Lab Smp Id: INDC3MM Client Smp ID: INDC3MM
 Inj Date : 18-JUN-2012 18:40
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : INDC3MM, INDC3MM, , indA.sub, ,
 Misc Info : 2, , , 1
 Comment :
 Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
 Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.D
 Als bottle: 2 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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1					CAS #: 877-09-8	
3.649	3.647	0.002	857235 0.02000	0.021		(a)

6					CAS #: 319-84-6	
4.294	4.294	0.000	3019810 0.02000	0.020		(a)

7					CAS #: 58-89-9	
4.675	4.674	0.001	2699340 0.02000	0.020		(a)

10					CAS #: 319-85-7	
4.753	4.753	0.000	1080673 0.02000	0.020		(a)

11					CAS #: 319-86-8	
5.082	5.081	0.001	2707924 0.02000	0.020		(a)

8					CAS #: 76-44-8	
5.168	5.169	-0.001	2551229 0.02000	0.020		(a)

9					CAS #: 309-00-2	
5.540	5.540	0.000	2431392 0.02000	0.020		(a)

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ng)	(ng)	=====	=====
14 Heptachlor epoxide				CAS #: 1024-57-3		
6.198	6.199	-0.001	2142328 0.02000	0.020		(a)

16 gamma-Chlordane				CAS #: 5103-74-2		
6.420	6.421	-0.001	2081881 0.02000	0.019		(a)

17 alpha-Chlordane				CAS #: 5103-71-9		
6.586	6.588	-0.002	2010591 0.02000	0.019		(a)

18 4,4'-DDE				CAS #: 72-55-9		
6.754	6.755	-0.001	3938800 0.04000	0.039		(a)

15 Endosulfan I				CAS #: 959-98-8		
6.656	6.657	-0.001	1042888 0.02000	0.019		(a)

19 Dieldrin				CAS #: 60-57-1		
6.948	6.949	-0.001	3896625 0.04000	0.038		(a)

20 Endrin				CAS #: 72-20-8		
7.256	7.256	0.000	2179014 0.04000	0.038		(a)

21 4,4'-DDD				CAS #: 72-54-8		
7.339	7.340	-0.001	2858401 0.04000	0.038		(a)

22 Endosulfan II				CAS #: 33213-65-9		
7.453	7.454	-0.001	2776490 0.04000	0.037		(a)

23 4,4'-DDT				CAS #: 50-29-3		
7.632	7.632	0.000	2598165 0.04000	0.035		(a)

24 Endrin aldehyde				CAS #: 7421-93-4		
7.757	7.757	0.000	1436233 0.04000	0.036		(a)

26 Methoxychlor				CAS #: 72-43-5		
8.217	8.216	0.001	5952340 0.20000	0.19		(a)

25 Endosulfan sulfate				CAS #: 1031-07-8		
7.994	7.994	0.000	2251176 0.04000	0.037		(a)

27 Endrin ketone				CAS #: 53494-70-5		
8.480	8.479	0.001	1730157 0.04000	0.039		(a)

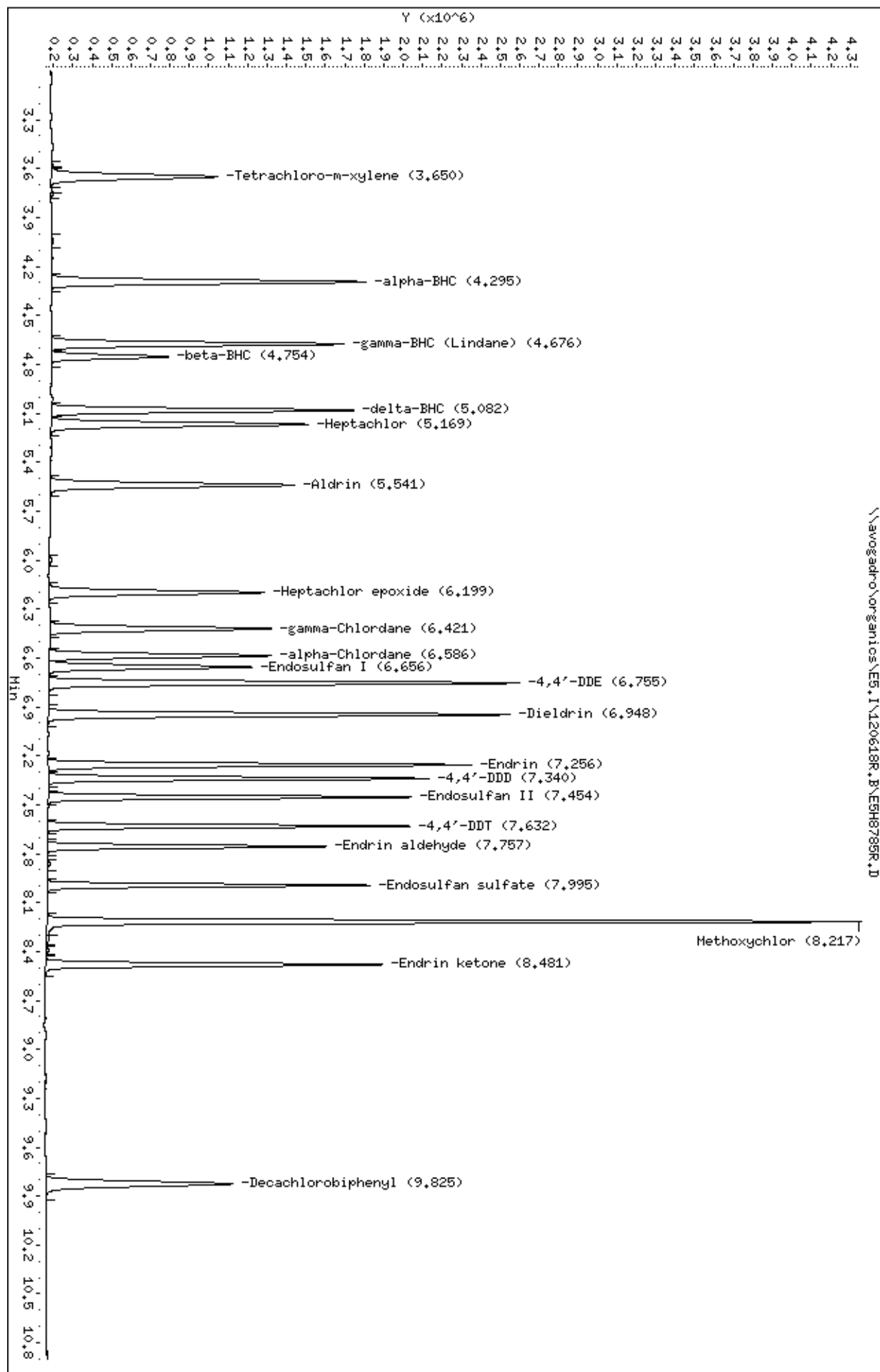
\$ 2 Decachlorobiphenyl				CAS #: 2051-24-3		
9.824	9.824	0.000	2214567 0.04000	0.039		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\ES.I\120618R.B\ES18785R.D
 Date: 18-JUN-2012 18:40
 Client ID: INDC3M
 Sample Info: INDC3M, INDC3M, indA, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8786F.D
 Lab Smp Id: TOXAPH3MM Client Smp ID: TOXAPH3MM
 Inj Date : 18-JUN-2012 18:54
 Operator : DL/GM SRC: DL/GM Inst ID: E5.i
 Smp Info : TOXAPH3MM, TOXAPH3MM, , somtox.sub, ,
 Misc Info : 2, , , 1
 Comment :
 Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
 Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.D
 Als bottle: 3 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

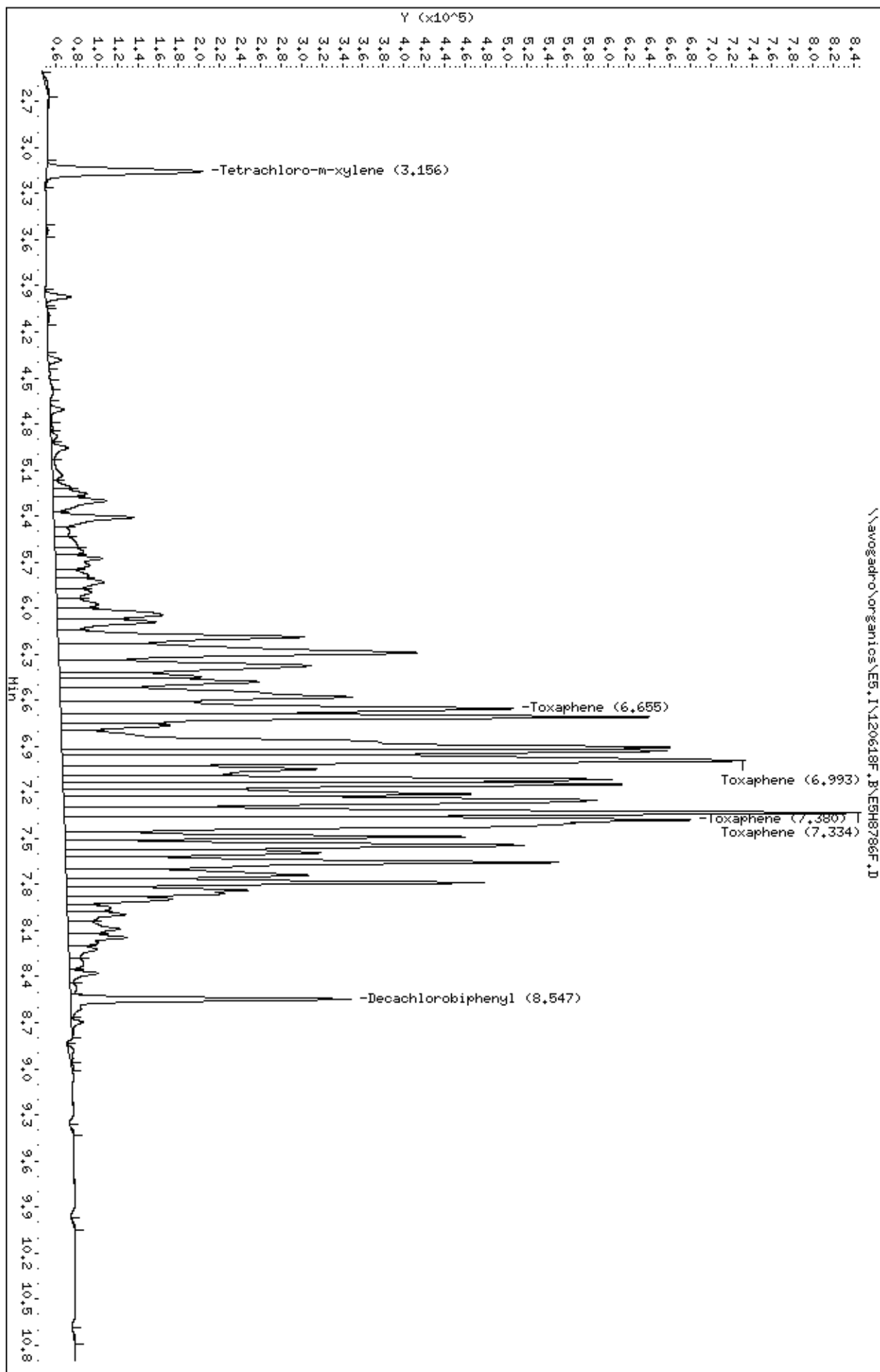
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.156	3.150	0.006	409832 0.02000	0.010		(a)
\$ 2					CAS #: 2051-24-3	
8.547	8.544	0.003	495151 0.04000	0.016		(a)
28					CAS #: 8001-35-2	
6.654	6.651	0.003	442167 2.00000	0.58	80.00- 120.00	100.00(a)
6.993	6.993	0.000	667107 2.00000	0.80	130.87- 170.87	150.87
7.333	7.333	0.000	778510 2.00000	0.80	156.07- 196.07	176.07
7.379	7.382	-0.003	611532 2.00000	0.62	118.30- 158.30	138.30
Average of Peak Amounts =			0.70000			

QC Flag Legend

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

Data File: \\avogadro\organics\ES.1\120618F.B\ES18786F.D
 Date : 18-JUN-2012 18:54
 Client ID: TOXAPH3MH
 Sample Info: TOXAPH3MH, TOXAPH3MH, sontox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8786R.D
Lab Smp Id: TOXAPH3MM Client Smp ID: TOXAPH3MM
Inj Date : 18-JUN-2012 18:54
Operator : DL/GM SRC: DL/GM Inst ID: E5.i
Smp Info : TOXAPH3MM, TOXAPH3MM, , somtox.sub, ,
Misc Info : 2, , , 1
Comment :
Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.D
Als bottle: 3 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.649	3.647	0.002	395193 0.02000	0.0098		(a)

\$ 2	Decachlorobiphenyl		CAS #: 2051-24-3			
9.824	9.824	0.000	711225 0.04000	0.012		(a)

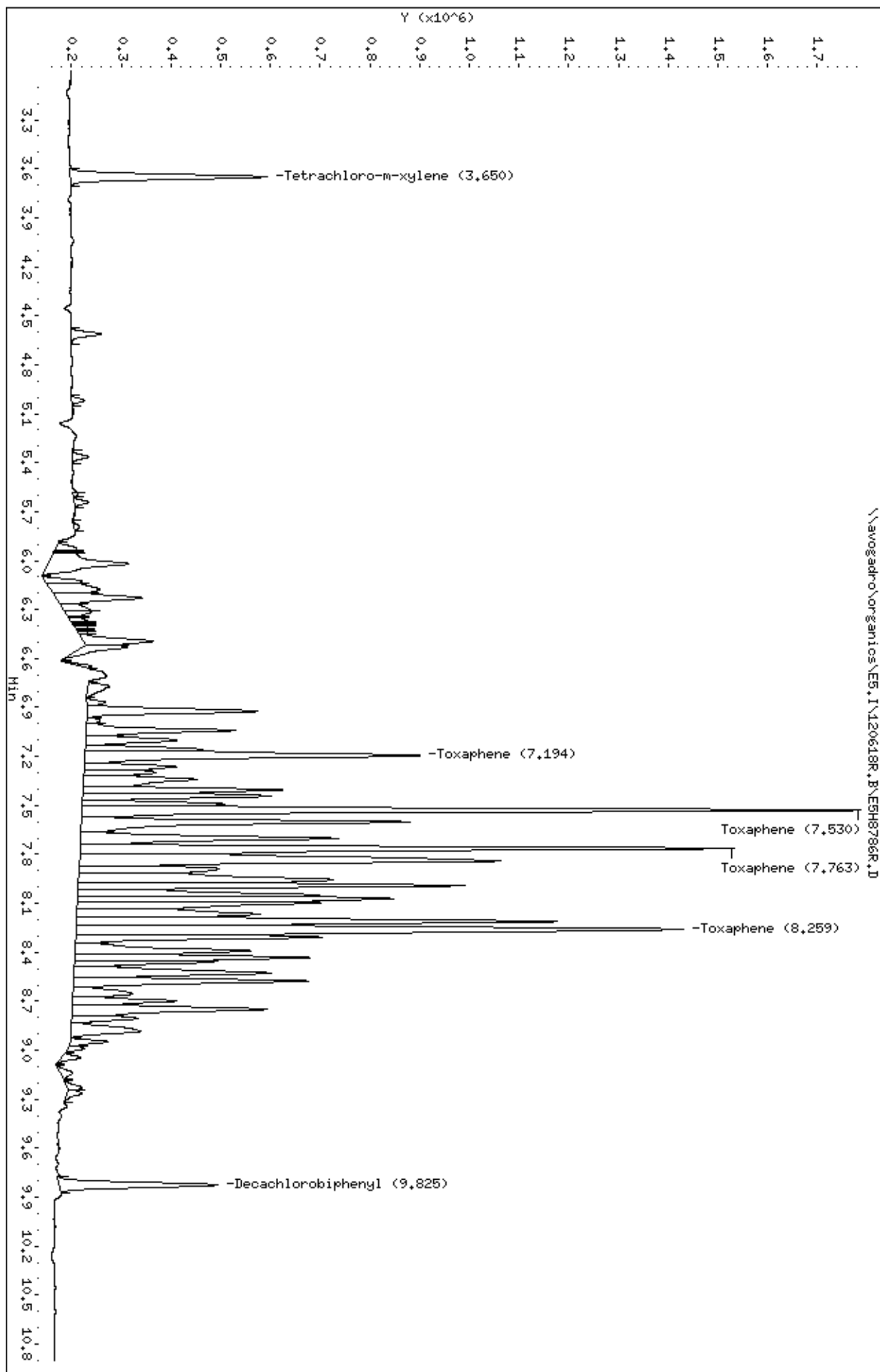
28	Toxaphene		CAS #: 8001-35-2			
7.193	7.197	-0.004	674693 2.00000	0.66 80.00- 120.00	100.00(a)	
7.529	7.532	-0.003	1565769 2.00000	0.69 212.07- 252.07	232.07	
7.763	7.764	-0.001	1316008 2.00000	0.60 175.05- 215.05	195.05	
8.258	8.260	-0.002	1221266 2.00000	0.66 161.01- 201.01	181.01	
Average of Peak Amounts =			0.65250			

QC Flag Legend

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

Data File: \\avogadro\organics\ES.1\120618R.B\ES18786R.D
 Date : 18-JUN-2012 18:54
 Client ID: TOXAPH3MH
 Sample Info: TOXAPH3MH, TOXAPH3MH, sontox, sub,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL/GH SRC: DL/GH
 Column diameter: 0.53



1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-66784

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66784

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E5H8775F.D/E5H8775R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	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\120618F.B\E5H8775F.D
 Report Date: 19-Jun-2012 13:51

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8775F.D
 Lab Smp Id: MB-66784 Client Smp ID: MB-66784
 Inj Date : 18-JUN-2012 16:16
 Operator : DL/GM SRC: LIMS Inst ID: E5.i
 Smp Info : MB-66784,MB-66784,66784,8081G.sub,,
 Misc Info : 2,,,1
 Comment :
 Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
 Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

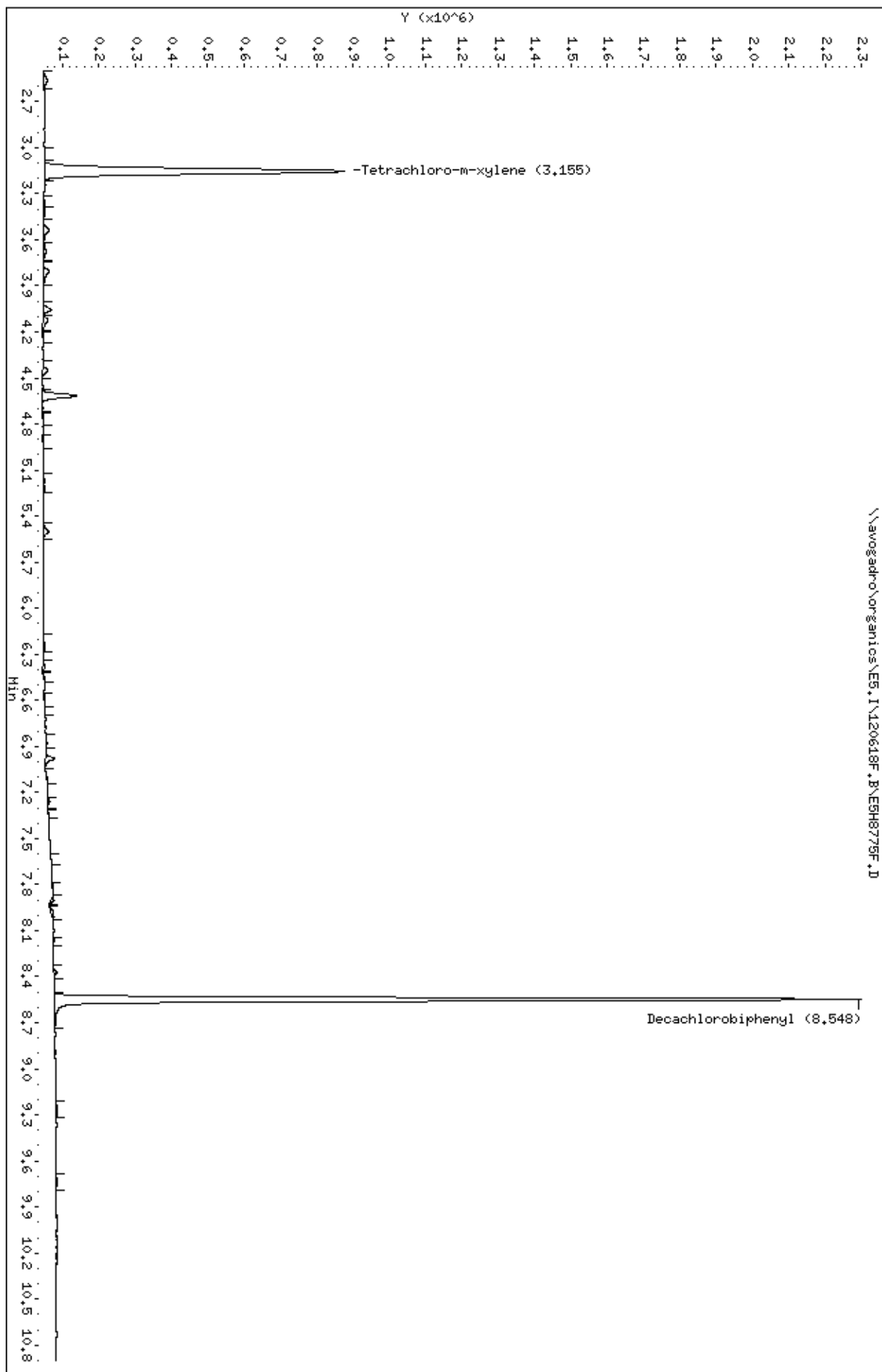
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/Kg)	TARGET RANGE RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1	Tetrachloro-m-xylene				CAS #: 877-09-8	
3.154	3.150	0.004	2134736	0.05318	18	

\$ 2	Decachlorobiphenyl				CAS #: 2051-24-3	
8.548	8.544	0.004	3606988	0.11537	38	

Data File: \\avogadro\organics\ES,1\120618F,B\ESH8775F.D
Date : 18-JUN-2012 16:16
Client ID: MB-66784
Sample Info: MB-66784,MB-66784,66784,8081G,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: ES,i
Operator: DL/GH SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\120618R.B\E5H8775R.D
 Report Date: 19-Jun-2012 13:52

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8775R.D
 Lab Smp Id: MB-66784 Client Smp ID: MB-66784
 Inj Date : 18-JUN-2012 16:16
 Operator : DL/GM SRC: LIMS Inst ID: E5.i
 Smp Info : MB-66784,MB-66784,66784,8081G.sub,,
 Misc Info : 2,,,1
 Comment :
 Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
 Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (	ng)	(ug/Kg)	=====
\$ 1					CAS #: 877-09-8	
3.649	3.647	0.002	2159843	0.05340	18	(M)M2 GMA 06/19

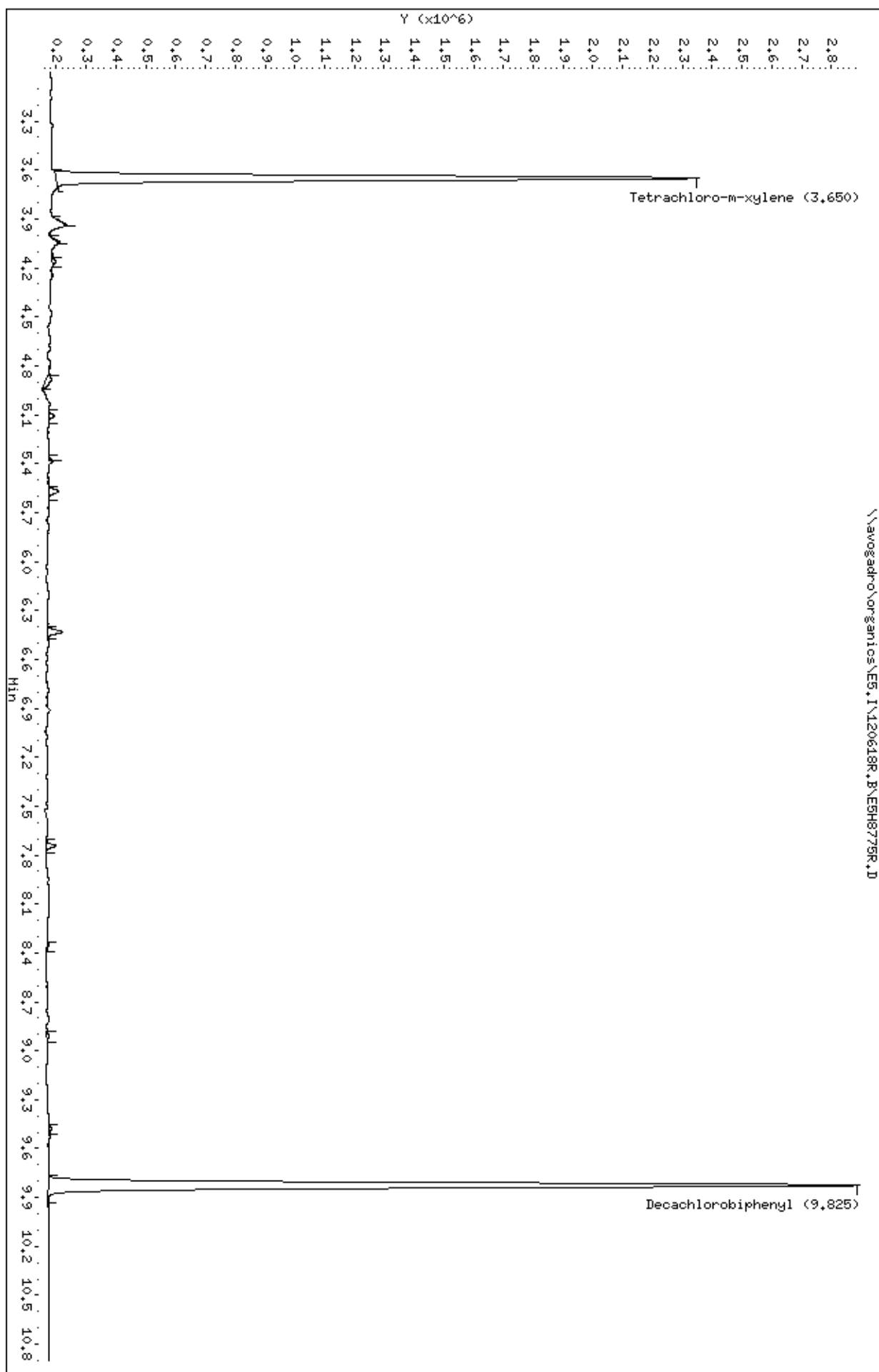
\$ 2					CAS #: 2051-24-3	
9.824	9.824	0.000	6075819	0.10670	36	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\avogadro\organics\ES,1\120618R,B\ESH8775R.D
Date : 18-JUN-2012 16:16
Client ID: MB-66784
Sample Info: MB-66784,MB-66784,66784,8081G,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: ES,i
Operator: DL/GH SRC: LIMS
Column diameter: 0.53



1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-66784(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-66784

Sample wt/vol: 30 (g/mL) G Lab File ID: E5H8776F.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	6.2	
319-85-7	beta-BHC	6.7	
319-86-8	delta-BHC	6.3	
58-89-9	gamma-BHC (Lindane)	6.2	
76-44-8	Heptachlor	6.4	
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	13	
72-20-8	Endrin	12	
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	12	
72-43-5	Methoxychlor	68	
53494-70-5	Endrin ketone	13	
7421-93-4	Endrin aldehyde	12	
5103-71-9	alpha-Chlordane	5.8	
5103-74-2	gamma-Chlordane	6.1	
8001-35-2	Toxaphene	170	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-66784(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-66784

Sample wt/vol: 30 (g/mL) G Lab File ID: E5H8776R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	5.7	
319-85-7	beta-BHC	5.5	
319-86-8	delta-BHC	6.0	
58-89-9	gamma-BHC (Lindane)	5.7	
76-44-8	Heptachlor	5.9	
309-00-2	Aldrin	5.7	
1024-57-3	Heptachlor epoxide	5.7	
959-98-8	Endosulfan I	5.4	
60-57-1	Dieldrin	11	
72-55-9	4,4'-DDE	11	
72-20-8	Endrin	11	
33213-65-9	Endosulfan II	11	
72-54-8	4,4'-DDD	11	
1031-07-8	Endosulfan sulfate	11	
50-29-3	4,4'-DDT	11	
72-43-5	Methoxychlor	58	
53494-70-5	Endrin ketone	11	
7421-93-4	Endrin aldehyde	11	
5103-71-9	alpha-Chlordane	5.3	
5103-74-2	gamma-Chlordane	5.7	
8001-35-2	Toxaphene	170	U

Data File: \\avogadro\organics\E5.I\120618F.B\E5H8776F.D
Report Date: 19-Jun-2012 13:51

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8776F.D
Lab Smp Id: LCS-66784 Client Smp ID: LCS-66784
Inj Date : 18-JUN-2012 16:30
Operator : DL/GM SRC: LIMS Inst ID: E5.i
Smp Info : LCS-66784,LCS-66784,66784,8081G.sub,,
Misc Info : 2,,,1
Comment :
Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL ng)	FINAL (ug/Kg)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====

\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.153	3.150	0.003	2085661	0.05196	17	

\$ 2	Decachlorobiphenyl		CAS #: 2051-24-3			
8.545	8.544	0.001	3562390	0.11394	38	

6	alpha-BHC		CAS #: 319-84-6			
3.705	3.704	0.001	585026	0.01850	6.2	

7	gamma-BHC (Lindane)		CAS #: 58-89-9			
4.009	4.008	0.001	1122366	0.01847	6.2	

8	Heptachlor		CAS #: 76-44-8			
4.469	4.469	0.000	1133728	0.01917	6.4	

9	Aldrin		CAS #: 309-00-2			
4.767	4.768	-0.001	1012897	0.01818	6.1	

		CONCENTRATIONS					
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/Kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====
10	beta-BHC				CAS #: 319-85-7		
4.092	4.091	0.001	498722	0.02017	6.7		

11	delta-BHC				CAS #: 319-86-8		
4.264	4.262	0.002	1158646	0.01900	6.3		

14	Heptachlor epoxide				CAS #: 1024-57-3		
5.393	5.394	-0.001	927488	0.01861	6.2		

15	Endosulfan I				CAS #: 959-98-8		
5.817	5.819	-0.002	444793	0.01830	6.1		

16	gamma-Chlordane				CAS #: 5103-74-2		
5.524	5.525	-0.001	508781	0.01823	6.1		

17	alpha-Chlordane				CAS #: 5103-71-9		
5.668	5.669	-0.001	883096	0.01739	5.8		

18	4,4'-DDE				CAS #: 72-55-9		
5.751	5.752	-0.001	1066138	0.03860	13		

19	Dieldrin				CAS #: 60-57-1		
6.079	6.081	-0.002	1946295	0.03860	13		(M)M2 GMA 06/19

20	Endrin				CAS #: 72-20-8		
6.340	6.342	-0.002	961204	0.03656	12		

21	4,4'-DDD				CAS #: 72-54-8		
6.419	6.419	0.000	1388427	0.03479	12		

22	Endosulfan II				CAS #: 33213-65-9		
6.585	6.586	-0.001	1514898	0.03713	12		

23	4,4'-DDT				CAS #: 50-29-3		
6.718	6.719	-0.001	1562427	0.03685	12		

24	Endrin aldehyde				CAS #: 7421-93-4		
7.014	7.016	-0.002	792994	0.03747	12		

25	Endosulfan sulfate				CAS #: 1031-07-8		
7.425	7.425	0.000	1389941	0.03928	13		

26	Methoxychlor				CAS #: 72-43-5		
7.204	7.205	-0.001	3626520	0.20446	68		

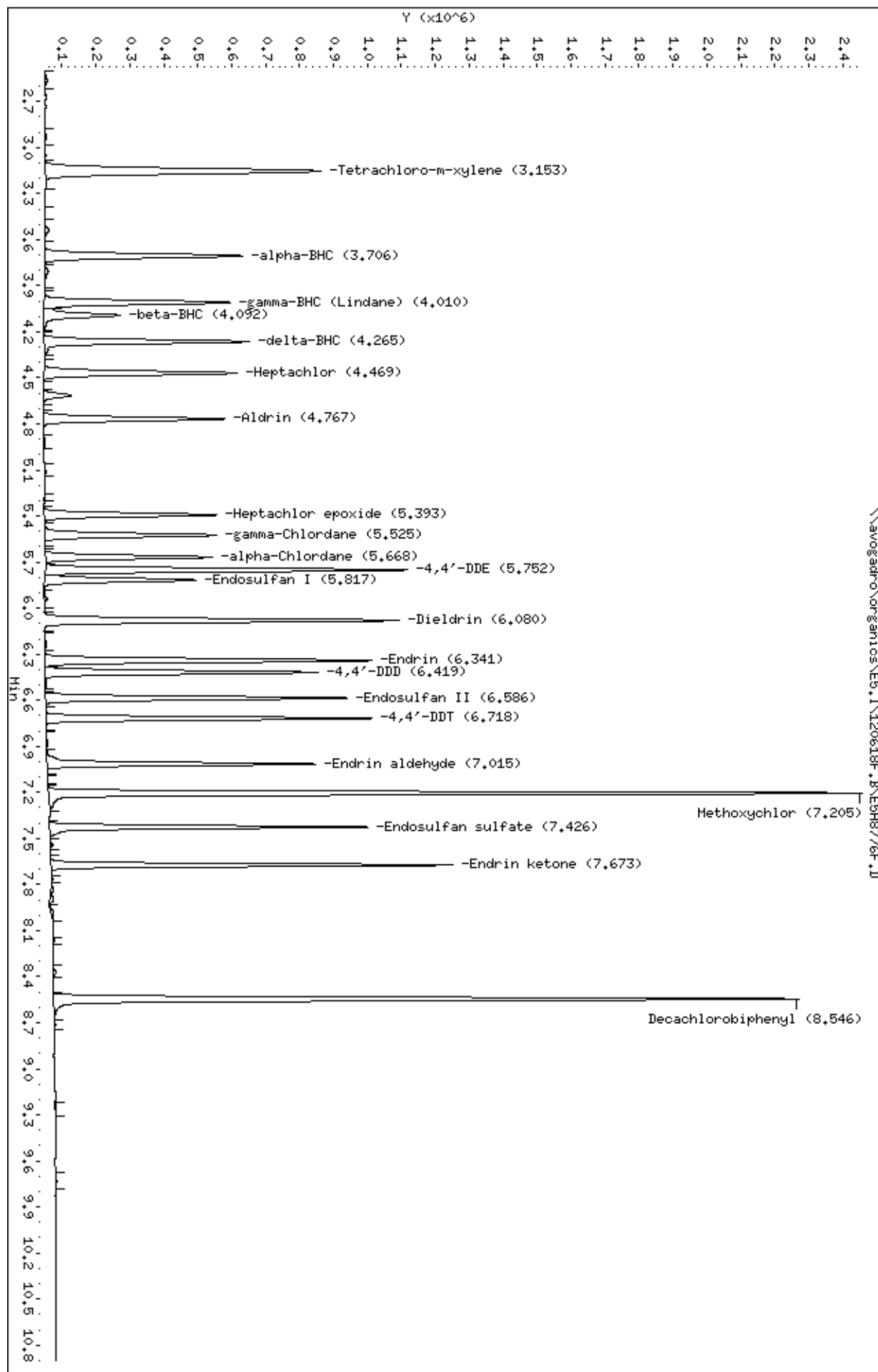
27	Endrin ketone				CAS #: 53494-70-5		
7.673	7.673	0.000	1184660	0.03949	13		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\avogadro\organics\ES.1\120618F.B\ES18776F.D
 Date: 18-JUN-2012 16:30
 Client ID: LCS-66784
 Sample Info: LCS-66784, LCS-66784, 66784, 8081G, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL/GH SRC: LIMS
 Column diameter: 0.53



Data File: \\avogadro\organics\E5.I\120618R.B\E5H8776R.D
 Report Date: 19-Jun-2012 13:52

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8776R.D
 Lab Smp Id: LCS-66784 Client Smp ID: LCS-66784
 Inj Date : 18-JUN-2012 16:30
 Operator : DL/GM SRC: LIMS Inst ID: E5.i
 Smp Info : LCS-66784,LCS-66784,66784,8081G.sub,,
 Misc Info : 2,,,1
 Comment :
 Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
 Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL ng)	FINAL (ug/Kg)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8 3.648 3.647 0.001 2086154 0.05157 17						
\$ 2 Decachlorobiphenyl CAS #: 2051-24-3 9.821 9.824 -0.003 5966005 0.10477 35						
6 alpha-BHC CAS #: 319-84-6 4.292 4.294 -0.002 2542836 0.01718 5.7						
7 gamma-BHC (Lindane) CAS #: 58-89-9 4.673 4.674 -0.001 2276363 0.01718 5.7						
8 Heptachlor CAS #: 76-44-8 5.165 5.169 -0.004 2299978 0.01775 5.9						
9 Aldrin CAS #: 309-00-2 5.537 5.540 -0.003 2075512 0.01696 5.6						

RT	EXP RT	DLT RT	CONCENTRATIONS		TARGET RANGE	RATIO
			ON-COL	FINAL		
=====	=====	=====	RESPONSE (	ng)	(ug/Kg)	=====
10	beta-BHC				CAS #: 319-85-7	
4.751	4.753	-0.002	872626	0.01662	5.5	

11	delta-BHC				CAS #: 319-86-8	
5.079	5.081	-0.002	2396681	0.01786	6.0	

14	Heptachlor epoxide				CAS #: 1024-57-3	
6.196	6.199	-0.003	1845092	0.01705	5.7	

15	Endosulfan I				CAS #: 959-98-8	
6.653	6.657	-0.004	866121	0.01614	5.4	

16	gamma-Chlordane				CAS #: 5103-74-2	
6.418	6.421	-0.003	1862112	0.01720	5.7	

17	alpha-Chlordane				CAS #: 5103-71-9	
6.583	6.588	-0.005	1662886	0.01582	5.3	

18	4,4'-DDE				CAS #: 72-55-9	
6.751	6.755	-0.004	3398155	0.03354	11	

19	Dieldrin				CAS #: 60-57-1	
6.945	6.949	-0.004	3362845	0.03324	11	

20	Endrin				CAS #: 72-20-8	
7.254	7.256	-0.002	1890798	0.03293	11	

21	4,4'-DDD				CAS #: 72-54-8	
7.337	7.340	-0.003	2412631	0.03237	11	

22	Endosulfan II				CAS #: 33213-65-9	
7.451	7.454	-0.003	2374674	0.03199	11	

23	4,4'-DDT				CAS #: 50-29-3	
7.629	7.632	-0.003	2381038	0.03238	11	

24	Endrin aldehyde				CAS #: 7421-93-4	
7.754	7.757	-0.003	1330388	0.03332	11	

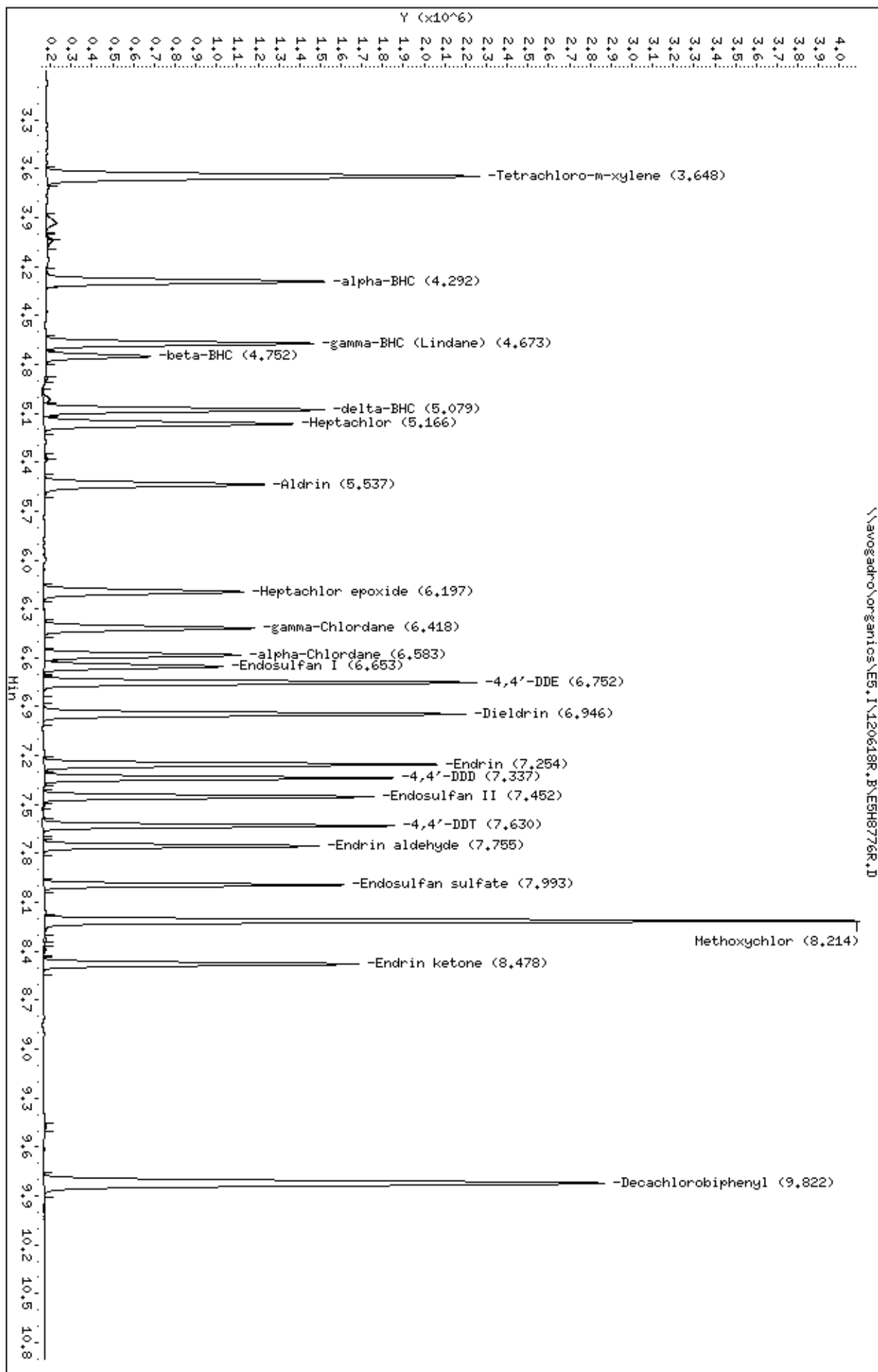
25	Endosulfan sulfate				CAS #: 1031-07-8	
7.993	7.994	-0.001	1958465	0.03246	11	

26	Methoxychlor				CAS #: 72-43-5	
8.214	8.216	-0.002	5504919	0.17482	58	

27	Endrin ketone				CAS #: 53494-70-5	
8.478	8.479	-0.001	1521394	0.03394	11	

Data File: \\avogadro\organics\ES.1\120618R.B\ES08776R.D
 Date: 18-JUN-2012 16:30
 Client ID: LCS-66784
 Sample Info: LCS-66784, LCS-66784, 66784, 8081G, sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL/GH SRC: LIMS
 Column diameter: 0.53



1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCSD-66784(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-66784

Sample wt/vol: 30 (g/mL) G Lab File ID: E5H8777F.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	6.4	
319-85-7	beta-BHC	7.0	
319-86-8	delta-BHC	6.6	
58-89-9	gamma-BHC (Lindane)	6.4	
76-44-8	Heptachlor	6.6	
309-00-2	Aldrin	6.3	
1024-57-3	Heptachlor epoxide	6.5	
959-98-8	Endosulfan I	6.4	
60-57-1	Dieldrin	13	
72-55-9	4,4'-DDE	13	
72-20-8	Endrin	13	
33213-65-9	Endosulfan II	13	
72-54-8	4,4'-DDD	12	
1031-07-8	Endosulfan sulfate	14	
50-29-3	4,4'-DDT	13	
72-43-5	Methoxychlor	71	
53494-70-5	Endrin ketone	14	
7421-93-4	Endrin aldehyde	13	
5103-71-9	alpha-Chlordane	6.1	
5103-74-2	gamma-Chlordane	6.5	
8001-35-2	Toxaphene	170	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCSD-66784(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-66784

Sample wt/vol: 30 (g/mL) G Lab File ID: E5H8777R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	5.9	
319-85-7	beta-BHC	5.8	
319-86-8	delta-BHC	6.2	
58-89-9	gamma-BHC (Lindane)	6.0	
76-44-8	Heptachlor	6.1	
309-00-2	Aldrin	5.8	
1024-57-3	Heptachlor epoxide	5.9	
959-98-8	Endosulfan I	5.6	
60-57-1	Dieldrin	11	
72-55-9	4,4'-DDE	12	
72-20-8	Endrin	11	
33213-65-9	Endosulfan II	11	
72-54-8	4,4'-DDD	11	
1031-07-8	Endosulfan sulfate	12	
50-29-3	4,4'-DDT	11	
72-43-5	Methoxychlor	61	
53494-70-5	Endrin ketone	12	
7421-93-4	Endrin aldehyde	12	
5103-71-9	alpha-Chlordane	5.5	
5103-74-2	gamma-Chlordane	6.0	
8001-35-2	Toxaphene	170	U

Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618F.B\E5H8777F.D
 Lab Smp Id: LCSD-66784 Client Smp ID: LCSD-66784
 Inj Date : 18-JUN-2012 16:45
 Operator : DL/GM SRC: LIMS Inst ID: E5.i
 Smp Info : LCSD-66784,LCSD-66784,66784,8081G.sub,,
 Misc Info : 2,,,1
 Comment :
 Method : \\avogadro\organics\E5.I\120618F.B\E58081f.m
 Meth Date : 19-Jun-2012 08:58 gappolonia Quant Type: ESTD
 Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434F.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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL ng)	FINAL (ug/Kg)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8 3.154 3.150 0.004 2122622 0.05288 18						
\$ 2 Decachlorobiphenyl CAS #: 2051-24-3 8.544 8.544 0.000 3753675 0.12006 40						
6 alpha-BHC CAS #: 319-84-6 3.706 3.704 0.002 603617 0.01909 6.4						
7 gamma-BHC (Lindane) CAS #: 58-89-9 4.009 4.008 0.001 1168104 0.01923 6.4						
8 Heptachlor CAS #: 76-44-8 4.469 4.469 0.000 1174325 0.01986 6.6						
9 Aldrin CAS #: 309-00-2 4.768 4.768 0.000 1050552 0.01886 6.3						

RT	EXP RT	DLT RT	CONCENTRATIONS		TARGET RANGE	RATIO
			ON-COL	FINAL		
=====	=====	=====	RESPONSE (	ng)	(ug/Kg)	=====
10	beta-BHC				CAS #: 319-85-7	
4.093	4.091	0.002	519141	0.02100	7.0	

11	delta-BHC				CAS #: 319-86-8	
4.264	4.262	0.002	1213856	0.01991	6.6	

14	Heptachlor epoxide				CAS #: 1024-57-3	
5.392	5.394	-0.002	967635	0.01942	6.5	

15	Endosulfan I				CAS #: 959-98-8	
5.817	5.819	-0.002	466280	0.01919	6.4	

16	gamma-Chlordane				CAS #: 5103-74-2	
5.524	5.525	-0.001	545774	0.01955	6.5	

17	alpha-Chlordane				CAS #: 5103-71-9	
5.667	5.669	-0.002	933580	0.01839	6.1	

18	4,4'-DDE				CAS #: 72-55-9	
5.751	5.752	-0.001	1107106	0.04008	13	

19	Dieldrin				CAS #: 60-57-1	
6.080	6.081	-0.001	1991990	0.03950	13	

20	Endrin				CAS #: 72-20-8	
6.341	6.342	-0.001	1019069	0.03876	13	

21	4,4'-DDD				CAS #: 72-54-8	
6.418	6.419	-0.001	1461670	0.03663	12	

22	Endosulfan II				CAS #: 33213-65-9	
6.585	6.586	-0.001	1591567	0.03901	13	

23	4,4'-DDT				CAS #: 50-29-3	
6.717	6.719	-0.002	1640531	0.03869	13	

24	Endrin aldehyde				CAS #: 7421-93-4	
7.014	7.016	-0.002	841444	0.03976	13	

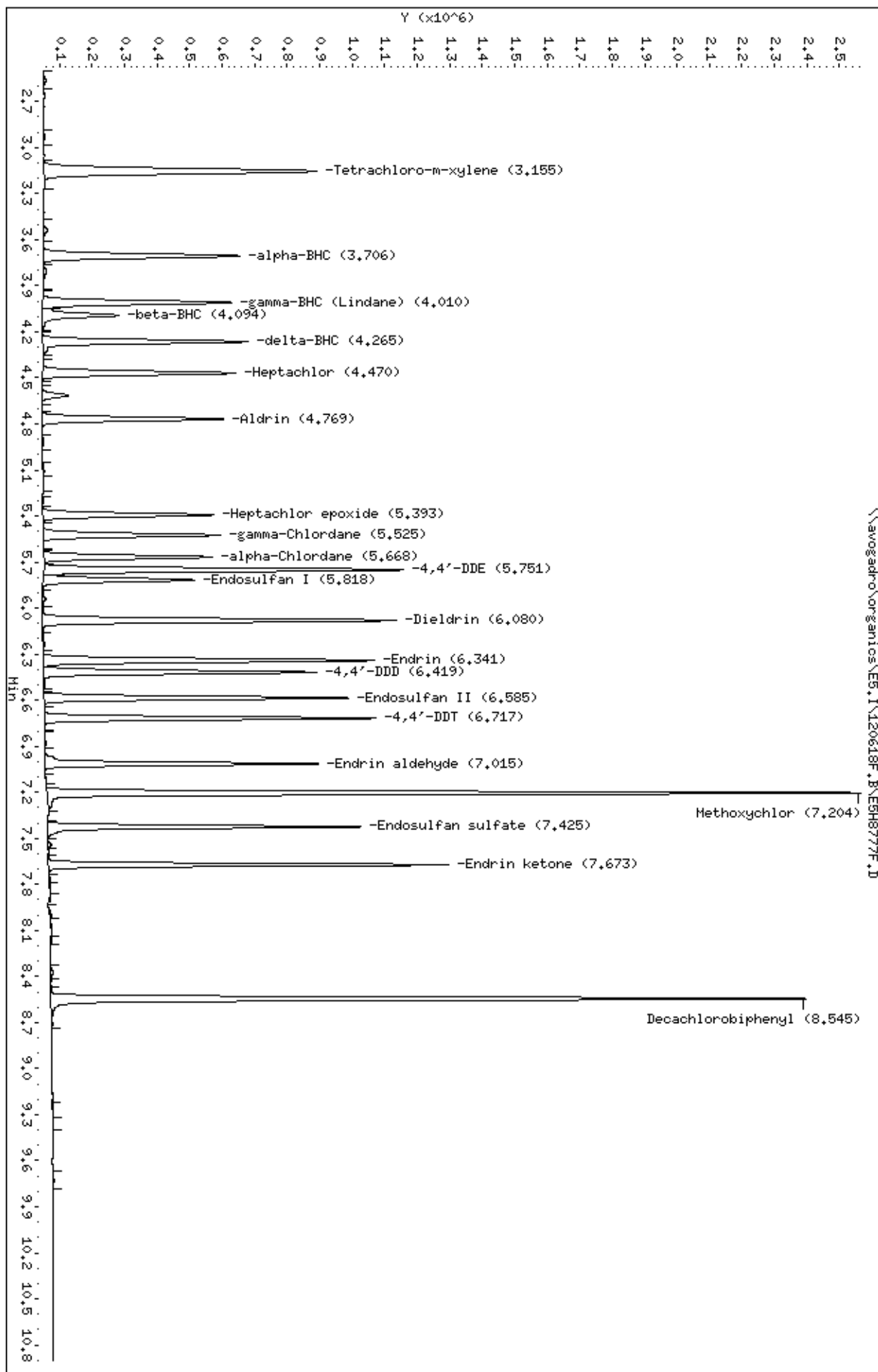
25	Endosulfan sulfate				CAS #: 1031-07-8	
7.425	7.425	0.000	1457102	0.04118	14	

26	Methoxychlor				CAS #: 72-43-5	
7.203	7.205	-0.002	3798049	0.21413	71	

27	Endrin ketone				CAS #: 53494-70-5	
7.672	7.673	-0.001	1229294	0.04098	14	

Data File: \\avogadro\organics\ES.1\120618F.B\ES18777F.D
 Date: 18-JUN-2012 16:45
 Client ID: LCSD-66784
 Sample Info: LCSD-66784,LCSD-66784,66784,8081G,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: ES.i
 Operator: DL/GH SRC: LIMS
 Column diameter: 0.53



Spectrum Analytical, Inc. RI Division

NYASP Pesticide Quantitation Report

Data file : \\avogadro\organics\E5.I\120618R.B\E5H8777R.D
Lab Smp Id: LCSD-66784 Client Smp ID: LCSD-66784
Inj Date : 18-JUN-2012 16:45
Operator : DL/GM SRC: LIMS Inst ID: E5.i
Smp Info : LCSD-66784,LCSD-66784,66784,8081G.sub,,
Misc Info : 2,,,1
Comment :
Method : \\avogadro\organics\E5.I\120618R.B\E58081r.m
Meth Date : 19-Jun-2012 09:00 gappolonia Quant Type: ESTD
Cal Date : 11-JUN-2012 19:22 Cal File: E5H8434R.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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.647	3.647	0.000	2117532	0.05235	17	

\$ 2 Decachlorobiphenyl CAS #: 2051-24-3						
9.820	9.824	-0.004	6276630	0.11022	37	

6 alpha-BHC CAS #: 319-84-6						
4.292	4.294	-0.002	2622868	0.01772	5.9	

7 gamma-BHC (Lindane) CAS #: 58-89-9						
4.672	4.674	-0.002	2385486	0.01801	6.0	

8 Heptachlor CAS #: 76-44-8						
5.166	5.169	-0.003	2357732	0.01820	6.1	

9 Aldrin CAS #: 309-00-2						
5.537	5.540	-0.003	2140437	0.01749	5.8	

RT	EXP RT	DLT RT	CONCENTRATIONS		TARGET RANGE	RATIO
			ON-COL	FINAL		
=====	=====	=====	RESPONSE (	ng)	(ug/Kg)	=====
10	beta-BHC				CAS #: 319-85-7	
4.752	4.753	-0.001	916930	0.01746	5.8	

11	delta-BHC				CAS #: 319-86-8	
5.079	5.081	-0.002	2484053	0.01851	6.2	

14	Heptachlor epoxide				CAS #: 1024-57-3	
6.195	6.199	-0.004	1911763	0.01766	5.9	

15	Endosulfan I				CAS #: 959-98-8	
6.652	6.657	-0.005	897271	0.01672	5.6	

16	gamma-Chlordane				CAS #: 5103-74-2	
6.417	6.421	-0.004	1933540	0.01786	6.0	

17	alpha-Chlordane				CAS #: 5103-71-9	
6.583	6.588	-0.005	1726020	0.01643	5.5	

18	4,4'-DDE				CAS #: 72-55-9	
6.752	6.755	-0.003	3535434	0.03489	12	

19	Dieldrin				CAS #: 60-57-1	
6.945	6.949	-0.004	3474422	0.03434	11	

20	Endrin				CAS #: 72-20-8	
7.253	7.256	-0.003	1924503	0.03351	11	

21	4,4'-DDD				CAS #: 72-54-8	
7.337	7.340	-0.003	2512465	0.03371	11	

22	Endosulfan II				CAS #: 33213-65-9	
7.451	7.454	-0.003	2445480	0.03295	11	

23	4,4'-DDT				CAS #: 50-29-3	
7.629	7.632	-0.003	2433111	0.03308	11	

24	Endrin aldehyde				CAS #: 7421-93-4	
7.754	7.757	-0.003	1403616	0.03515	12	

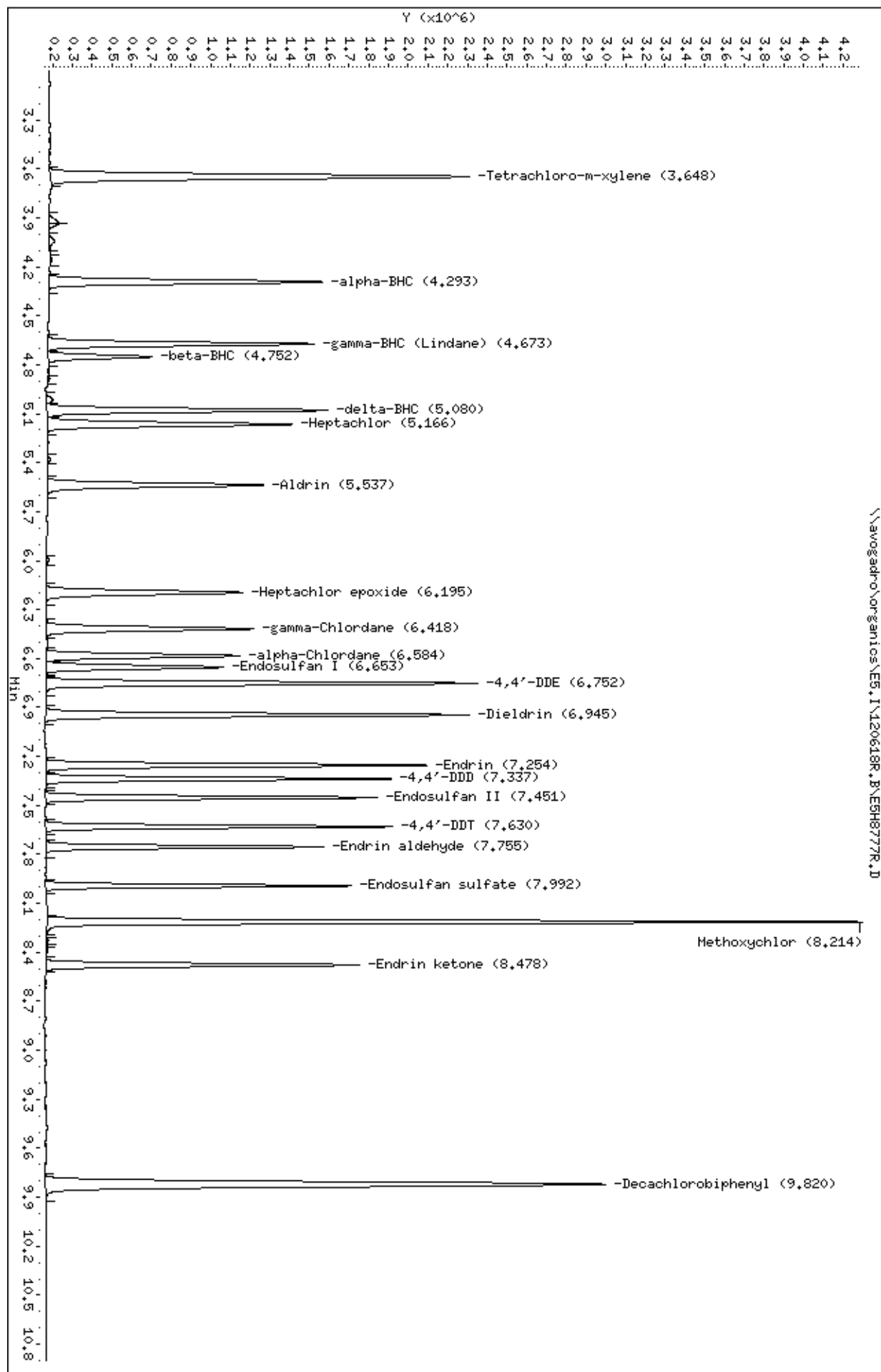
25	Endosulfan sulfate				CAS #: 1031-07-8	
7.992	7.994	-0.002	2092702	0.03469	12	

26	Methoxychlor				CAS #: 72-43-5	
8.213	8.216	-0.003	5794503	0.18402	61	

27	Endrin ketone				CAS #: 53494-70-5	
8.477	8.479	-0.002	1584565	0.03535	12	

Data File: \\avogadro\organics\ES.1\120618R.B\ES08777R.D
 Date : 18-JUN-2012 16:45
 Client ID: LCSD-66784
 Sample Info: LCSD-66784,LCSD-66784,66784,80816,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: ES.i
 Operator: DL/GH SRC: LIMS
 Column diameter: 0.53



Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 06/18/2012 08:46

Prep End Date: 06/18/2012 10:30

Prep Batch ID: 66784

Prep Code: PEST_S_PR

Prep Type: SONC/SW3550B

Technician: Timothy McDaniel

Prep Factor Units:

mL / g

QC Matrix: NA2SO4
 QC Matrix Lot: 115711
 Solvent (1): MECL2
 Solvent (1) Lot: DF 570

Filter?: FILTER
 Filter Lot: FC003284
 Solvent (2): HEXANE
 Solvent (2) Lot: DF 077

Solvent (5): N/A
 Solvent (5) Lot: N/A
 Clean Up (1): N/A
 Clean Up (1) 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 (3): N/A
 Clean Up (3) 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

Therm ID1: N/A

Bath Temp1 (C): N/A

Mitkem 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	GNCTR Unit
MB-66784	BatchQC		30	10	OPW120413B	1			TMJBW	TMJBW	06/18/12			JBW	R21		<2	Turbo Vap 1
CLEAN UP (MB-66784): SW3660B/CU_120618A (LOT: MKBH2986V) /tmcdaniel																		
LCS-66784	BatchQC		30	10	OPW120413B	1	OPW120522A	1	TMJBW	TMJBW	06/18/12			JBW	R21			Turbo Vap 1
CLEAN UP (LCS-66784): SW3660B/CU_120618A (LOT: MKBH2986V) /tmcdaniel																		
LCSD-66784	BatchQC		30	10	OPW120413B	1	OPW120522A	1	TMJBW	TMJBW	06/18/12			JBW	R21			Turbo Vap 1
CLEAN UP (LCSD-66784): SW3660B/CU_120618A (LOT: MKBH2986V) /tmcdaniel																		
L1326-06B	GP-24 8-12	S	30.5	10	OPW120413B	1			TMJBW	TMJBW	06/29/12	01	06/18/12	JBW	R21			Turbo Vap 1
CLEAN UP (L1326-06B): SW3660B/CU_120618A (LOT: MKBH2986V) /tmcdaniel																		

Jodie B Warner

Analyst Reviewed

06/18/2012

Date

Timothy McDaniel

Manager Reviewed

06/18/2012

Date

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

PCB LCS Spike Std ID:

Vol. Spiked:

Sulfur cleanup Copper lot #

Sonicator Tuned? Yes/No

Reviewed By:

TM 6/18/12

Percent Moisture and Percent Solids Report

<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Analyzed</i>	<i>Percent Moisture</i>	<i>Percent Solids</i>	<i>Validated</i>
<i>L1326-03A</i>	<i>GP-21 22-23.8</i>	06/18/2012	11.554	88.446	Yes
<i>L1326-04A</i>	<i>GP-23 0-2</i>	06/15/2012	17.955	82.045	Yes
<i>L1326-06B</i>	<i>GP-24 8-12</i>	06/15/2012	18.414	81.586	Yes

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E5

Sequence

Method

ICAL Date

Spectrum Analytical, Inc. RI Division E5
GC Semivolatiles Laboratory

Injection Log

METHOD: RestacksANALYST: PCSTART BATCH: 120611BP.B Start: 11-JUN-12 16:43
END BATCH: 120611BP.B End: 11-JUN-12 20:05

Internal Standard:

Comments:

8081 ICAL

Inlet Maintenance By:

Liner : NA

Column :

Inlet Seal:

Septum :

Reviewed By: YJ/ly Manual Integration: NA MI Review: NA

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES				DIIN	FLAGS		ANALYST		COMMENTS
						TCMX	FRONT	REAR	DCB		TCMX	DCB	F	R	
E5H8423F/R	16:43	PEMM5	PEMM5			AQ									PW120402A
E5H8424F/R	16:58	TOXAPH1M5	TOXAPH1M5			AQ				1					PW120523J
E5H8425F/R	17:12	TOXAPH2M5	TOXAPH2M5			AQ				1					I H G H U A U B ↓
E5H8426F/R	17:27	TOXAPH3M5	TOXAPH3M5			AQ				1					
E5H8427F/R	17:41	TOXAPH4M5	TOXAPH4M5			AQ				1					
E5H8428F/R	17:55	TOXAPH5M5	TOXAPH5M5			AQ				1					
E5H8429F/R	18:10	TC3M5	TC3M5			AQ				1					
E5H8430F/R	18:24	INDC1M5	INDC1M5			AQ				1					
E5H8431F/R	18:39	INDC2M5	INDC2M5			AQ				1					
E5H8432F/R	18:53	INDC3M5	INDC3M5			AQ				1					
E5H8433F/R	19:07	INDC4M5	INDC4M5			AQ				1					
E5H8434F/R	19:22	INDC5M5	INDC5M5			AQ				1					
E5H8435F/R	19:36	P1BLKMA	P1BLKMA			AQ	97	98	96	97					PW120523A
E5H8436F/R	19:51	PEMMA	PEMMA			AQ				1					
E5H8437F/R	20:05	INDC1CVM5	INDC1CVM5			AQ				1					PW111007C

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

PC 6/13/12

Reviewed

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E5 3

Spectrum Analytical, Inc. RI Division E5 Injection Log METHOD: 60/4/12 START BATCH: 120618F.B END BATCH: 120618F.B
GC Semivolatiles Laboratory

Start: 18-JUN-12 09:13
End: 18-JUN-12 19:09

Inlet Maintenance By:

Liner :
Column :
Inlet Seal :
Septum :

Internal Standard:
Comments:

STDS Range 76

Reviewed By: DC 6/19/12 Manual Integration: blak12 MI Review: DL

FILE	TIME	LAB ID	CLIENT ID	PREP	BATCH	SURROGATES				DIIN	FLAGS			ANALYST			COMMENTS
						TCMX	DCB	TCMX	DCB		F	R	R	F	F	R	
ESH8748F/R	09:13	PBBLKMK	PBBLKMK			AQ	32	32	32	30*	1						
ESH8749F/R	09:27	PENMK	PENMK			AQ											
ESH8750F/R	09:41	INDC3MK	INDC3MK			AQ											
ESH8751F/R	09:56	TOXAPH3MK	TOXAPH3MK			AQ											
ESH8752F/R	10:10	INDC3MK	INDC3MK			AQ											
ESH8753F/R	10:25	TC3MK	TC3MK			AQ											
ESH8754F/R	10:39	MB-66758	MB-66758			66758	AQ	96	100	96	98						
ESH8755F/R	10:54	LCS-66758	LCS-66758			66758	AQ	92	91	92	95						
ESH8756F/R	11:08	LCSD-66758	LCSD-66758			66758	AQ	91	82	90	95						
ESH8757F/R	11:23	L1324-06A	EQUIPB			66758	AQ	68	21*	67	23*						
ESH8758F/R	11:37	MB-66767	MB-66767			66767	AQ	47	49	46	47						
ESH8759F/R	11:51	LCS-66767	LCS-66767			66767	AQ	47	51	46	48						
ESH8760F/R	12:06	LCSD-66767	LCSD-66767			66767	AQ	45	50	44	47						
ESH8761F/R	12:20	L1323-11B	MW-24			66767	AQ	18*	6.4*	17*	7.2*						
ESH8762F/R	12:35	MB-66750	MB-66750			66750	SL	89	102	90	98						
ESH8763F/R	12:49	LCS-66750	LCS-66750			66750	SL	88	101	88	97						
ESH8764F/R	13:04	L1324-01A	NW01			66750	SL	62	68	59	65						
ESH8765F/R	13:18	L1324-01AMS	NW01MS			66750	SL	56	65	53	63						
ESH8766F/R	13:33	L1324-01AMS	NW01MSD			66750	SL	51	65	49	60						
ESH8767F/R	13:47	L1324-02A	FD			66750	SL	54	63	51	58						
ESH8768F/R	14:01	L1324-05A	NW02			66750	SL	53	63	50	58						
ESH8769F/R	14:28	PBBLKMK	PBBLKMK			AQ	31	32	31	29*	1						
ESH8770F/R	14:42	INDC3ML	INDC3ML			AQ											
ESH8771F/R	15:08	INDC3ML	INDC3ML			AQ											
ESH8772F/R	15:33	PENMK	PENMK			AQ											
ESH8773F/R	15:47	TOXAPH3ML	TOXAPH3ML			AQ											
ESH8774F/R	16:01	TC3ML	TC3ML			AQ											

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

Logbook ID 60.0225-02/12

83

391

6/19/12

Spectrum Analytical, Inc. RI Division E5 Injection Log
GC Semivolatiles Laboratory

METHOD:	Repeaks	ANALYST:	CMO	START BATCH:	120618F.B	Start:	18-JUN-12 09:13
ICAL DATE:	6/11/12			END BATCH:	120618F.B	End:	18-JUN-12 19:09

Inlet Maintenance By: 19

Liner :
 Column :
 Inlet Seal:
 Septum :

STDs Page 70

Reviewed By: xx 6/19/12 Manual Integration: OMO 6/19/12 MI Review: x

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	SURROGATES				DILN	FLAGS		ANALYST		COMMENTS
						BATCH	TCMX	DCB	REAR		TCMX	DCB	F	R	
E5H8775F/R	16:16	MB-66784	MB-66784	66784	SL	89	96	89	89	1					MI_R1
E5H8776F/R	16:30	LCS-66784	LCS-66784	66784	SL	86	95	86	87	1					MI_F19
E5H8777F/R	16:45	LCSD-66784	LCSD-66784	66784	SL	88	100	87	92	1					
E5H8778F/R	16:59	L1326-06B	GP-24 8-12	66784	SL	66	69	62	70	1					
E5H8779F/R	17:13	MB-66767	MB-66767	66767	AQ	94	100	93	92	1					
E5H8780F/R	17:28	LCS-66767	LCS-66767	66767	AQ	96	106	94	98	1					MI_F19
E5H8781F/R	17:42	LCSD-66767	LCSD-66767	66767	AQ	86	97	85	90	1					
E5H8782F/R	17:57	L1323-11B	MW-24	66767	AQ	72	30*	63	27*	1					
E5H8783F/R	18:11	P1BLKMM	P1BLKMM		AQ	34	34	33	31	1					
E5H8784F/R	18:25	PENMM	PENMM		AQ					1					
E5H8785F/R	18:40	INDC3MM	INDC3MM		AQ					1					
E5H8786F/R	18:54	TOXAPH3MM	TOXAPH3MM		AQ					1					
E5H8787F/R	19:09	TC3MM	TC3MM		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

Comments

Reviewed



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** PCB Organics ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave.

Laboratory Workorder / SDG #: L1326

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: SW3550

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%.

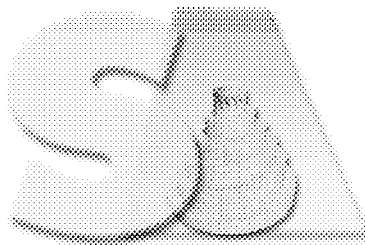
No other unusual occurrences were noted during sample analysis.

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.

A handwritten signature in black ink, appearing to be 'J. H. R.', written over a horizontal line.

Signed: _____

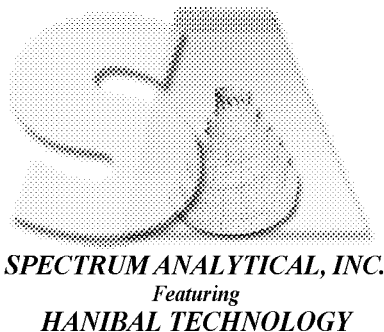
Date: _____ 6/29/2012 _____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 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-66785	86	84	105	122			0
02	LCS-66785	80	79	102	119			0
03	LCSD-66785	84	82	106	122			0
04	GP-24 8-12	63	62	81	99			0

QC LIMITS
(34-147)
(60-125)

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

som111.10.27.A

3P - FORM III ARO-4
SOIL AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66785

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCS-66785 LCS Lot No.: A082781
Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012
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	130.6155	98	40-140
Aroclor-1260	133.3330	141.5350	106	60-130

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)
Date Analyzed (2): 06/18/2012

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
Aroclor-1016	133.3330	126.1762	95	40-140
Aroclor-1260	133.3330	140.3919	105	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:

3P - FORM III ARO-4
SOIL AROCLOR LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66785

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCSD-66785 LCS Lot No.: A082781
Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012
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	133.7305	100	40-140	2.0	30
Aroclor-1260	133.3330	144.1691	108	60-130	2.0	30

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)
Date Analyzed (2): 06/18/2012

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
Aroclor-1016	133.3330	127.6966	96	40-140	1.0	30
Aroclor-1260	133.3330	143.8991	108	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:

4F - FORM IV ARO
AROCOLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66785

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab File ID: E2L1437F.D / E2L1437R.D Lab Sample ID: MB-66785
Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/18/2012
Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N
Acid Cleanup: (Y/N) Y
Date Analyzed (1): 06/18/2012 Date Analyzed (2): 06/18/2012
Time Analyzed (1): 18:09 Time Analyzed (2): 18:09
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-66785	LCS-66785	06/18/2012	06/18/2012
02	LCSD-66785	LCSD-66785	06/18/2012	06/18/2012
03	GP-24 8-12	L1326-06B	06/18/2012	06/18/2012

COMMENTS:

1H - FORM I ARO
AROCOLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-24 8-12

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1326-06B

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E2L1440F.D/E2L1440R.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/15/2012

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor-1016	40		U
11104-28-2	Aroclor-1221	40		U
11141-16-5	Aroclor-1232	40		U
53469-21-9	Aroclor-1242	40		U
12672-29-6	Aroclor-1248	40		U
11097-69-1	Aroclor-1254	40		U
11096-82-5	Aroclor-1260	40		U

Data File: \\Avogadro\Organics\E2.i\120618F.B\E2L1440F.D
 Report Date: 20-Jun-2012 10:17

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618F.B\E2L1440F.D
 Lab Smp Id: L1326-06B Client Smp ID: GP-24 8-12
 Inj Date : 18-JUN-2012 19:12
 Operator : DL SRC: LIMS Inst ID: E2.i
 Smp Info : L1326-06B,,66785,8082A.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618F.B\E2_LL_PCB_F.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8082A.sub
 Target Version: 4.14 Sample Matrix: SOIL
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

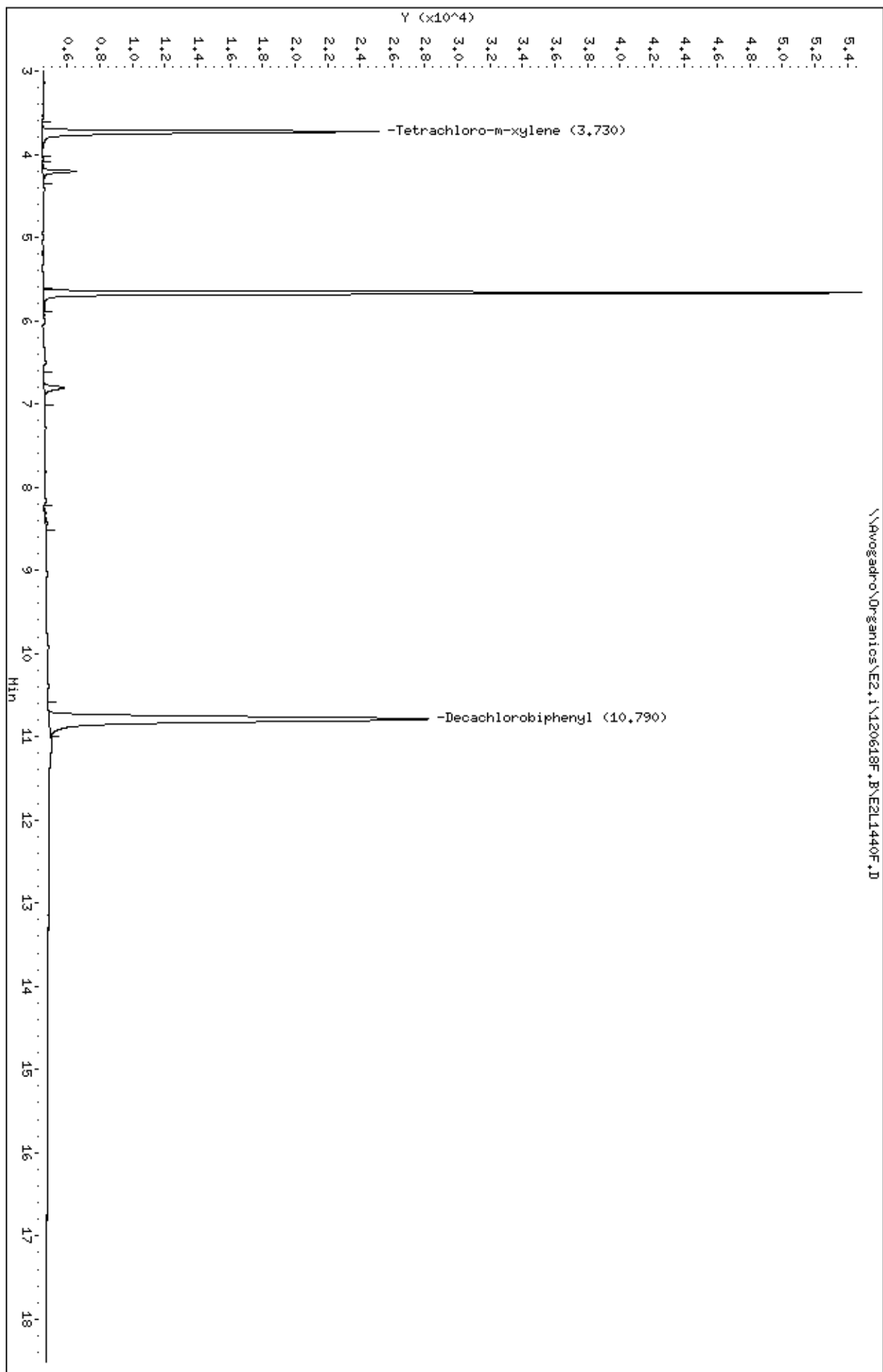
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.500	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ng)	(ug/Kg)	=====	=====
\$ 1					CAS #: 877-09-8	
3.729	3.724	0.005	20606	0.03759	12	

\$ 11					CAS #: 2051-24-3	
10.790	10.786	0.004	1084891	0.09718	32	

Data File: \\Avogadro\Organics\E2.i\120618F.B\E2L1440F.D
Date : 18-JUN-2012 19:12
Client ID: GP-24 8-12
Sample Info: L1326-06B,66785,8082A,sub,,
Volume Injected (uL): 1.0
Column phase: CLPrest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



Data File: \\Avogadro\Organics\E2.i\120618R.B\E2L1440R.D
 Report Date: 20-Jun-2012 10:18

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618R.B\E2L1440R.D
 Lab Smp Id: L1326-06B Client Smp ID: GP-24 8-12
 Inj Date : 18-JUN-2012 19:12
 Operator : DL SRC: LIMS Inst ID: E2.i
 Smp Info : L1326-06B,,66785,8082A.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618R.B\E2_LL_PCB_R.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8082A.sub
 Target Version: 4.14 Sample Matrix: SOIL
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

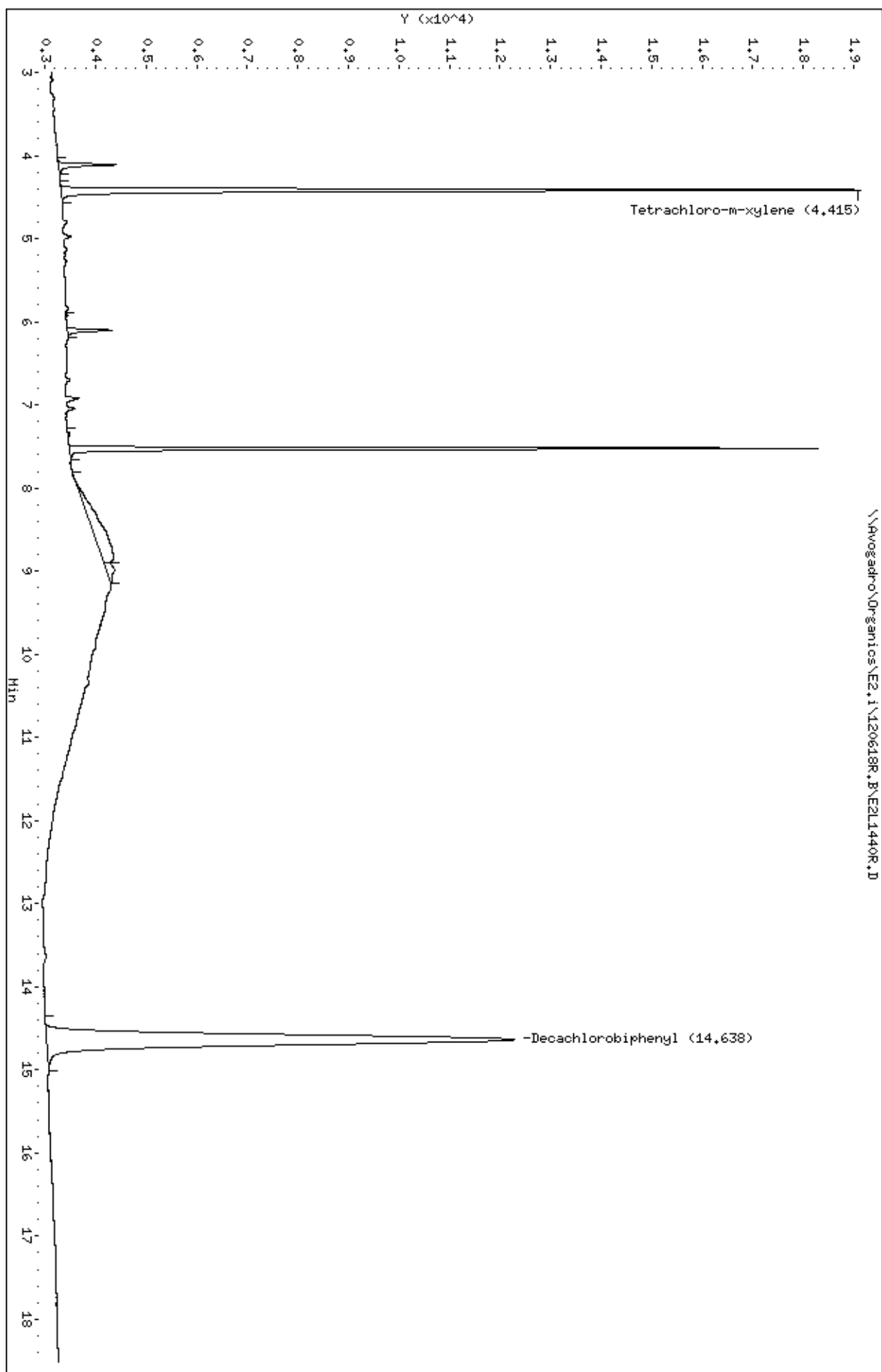
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.500	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ng)	(ug/Kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.414	4.409	0.005	15786	0.03716	12	

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.637	14.631	0.006	9268	0.11913	39	

Data File: \\Avogadro\Organics\E2.i\120618R.B\E2L1440R.D
Date : 18-JUN-2012 19:12
Client ID: GP-24 8-12
Sample Info: L1326-06B,66785,8082A,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 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: CLPest ID: 0.53 (mm) Date(s) Analyzed (1): 05/24/2012 05/25/2012

COMPOUND	PEAK*	RT OF STANDARDS										RT WINDOW **	
		CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	RT	FROM	TO
AR1016	1	4.652	4.652	4.652	4.651	4.650	4.653				4.652	4.582	4.722
	2	5.288	5.287	5.287	5.286	5.286	5.287				5.287	5.217	5.357
	3	6.008	6.007	6.010	6.009	6.008	6.008				6.008	5.938	6.078
AR1260	1	7.287	7.285	7.286	7.285	7.284	7.287				7.286	7.216	7.356
	2	7.543	7.543	7.544	7.542	7.541	7.543				7.543	7.473	7.613
	3	7.813	7.812	7.814	7.812	7.811	7.813				7.813	7.743	7.883
AR1242	1	4.923	4.924	4.923	4.922	4.921	4.923				4.923	4.853	4.993
	2	5.480	5.480	5.479	5.478	5.478	5.479				5.479	5.409	5.549
	3	5.754	5.754	5.754	5.753	5.753	5.754				5.754	5.684	5.824
AR1248	1	6.010	6.009	6.008	6.008	6.007	6.010				6.009	5.939	6.079
	2	6.509	6.509	6.509	6.509	6.508	6.509				6.509	6.439	6.579
	3	6.724	6.723	6.723	6.722	6.721	6.724				6.723	6.653	6.793
AR1254	1	6.994	6.994	6.993	6.993	6.992	6.994				6.993	6.923	7.063
	2	7.114	7.113	7.113	7.112	7.111	7.114				7.113	7.043	7.183
	3	7.374	7.373	7.373	7.371	7.370	7.374				7.372	7.302	7.442
TCX (A)		3.726	3.725	3.726	3.725	3.725					3.725	3.675	3.775
DCB (A)		10.788	10.788	10.788	10.788	10.786					10.788	10.688	10.888

* 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

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 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: CLPestII ID: 0.53 (mm) Date(s) Analyzed (1): 05/24/2012 05/25/2012

COMPOUND	PEAK*	RT OF STANDARDS										RT WINDOW **	
		CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	RT	FROM	TO
AR1016	1	5.748	5.747	5.746	5.745	5.744	5.748				5.746	5.676	5.816
	2	6.326	6.325	6.325	6.324	6.324	6.326				6.325	6.255	6.395
	3	6.489	6.488	6.488	6.486	6.486	6.488				6.487	6.417	6.557
AR1260	1	8.280	8.279	8.279	8.278	8.277	8.280				8.279	8.209	8.349
	2	8.524	8.523	8.524	8.522	8.520	8.524				8.523	8.453	8.593
	3	8.985	8.984	8.986	8.984	8.983	8.985				8.985	8.915	9.055
AR1242	1	6.489	6.489	6.488	6.488	6.487	6.489				6.489	6.419	6.559
	2	6.604	6.605	6.604	6.604	6.603	6.604				6.604	6.534	6.674
	3	6.997	6.997	6.996	6.996	6.995	6.996				6.996	6.926	7.066
AR1248	1	7.121	7.120	7.120	7.120	7.119	7.121				7.120	7.050	7.190
	2	7.409	7.407	7.408	7.407	7.406	7.409				7.408	7.338	7.478
	3	7.636	7.634	7.635	7.634	7.632	7.636				7.635	7.565	7.705
AR1254	1	7.939	7.939	7.939	7.938	7.937	7.940				7.939	7.869	8.009
	2	8.064	8.064	8.064	8.062	8.060	8.064				8.063	7.993	8.133
	3	8.731	8.731	8.731	8.730	8.729	8.732				8.731	8.661	8.801
TCX (A)		4.412	4.412	4.411	4.410	4.410					4.411	4.361	4.461
DCB (A)		14.634	14.634	14.633	14.635	14.632					14.634	14.534	14.734

* 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

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Instrument ID: E2 Date(s) Analyzed: 05/24/2012 05/25/2012

GC Column: CLPest 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)										% RSD
		CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9		
AR1016	1	19860	18535	16688	15069	13798	20740				15.7	
	2	29560	28320	26215	24376	22961	30840				11.3	
	3	13880	13510	12403	11329	10673	14500				11.9	
AR1260	1	26700	25095	22893	21291	19844	28120				13.4	
	2	37510	35430	33843	30690	28833	39400				11.7	
	3	26630	26055	27125	25915	25172	27600				3.3	
AR1242	1	7980	7565	7118	6746	6595	7900				8.0	
	2	12660	11920	11293	10633	10271	12680				8.8	
	3	11510	10735	9890	9185	8711	11660				11.9	
AR1248	1	18990	17955	16300	15868	14463	19440				11.3	
	2	26740	25570	23368	22916	21188	27280				9.8	
	3	18480	17675	16340	16274	15163	18680				8.2	
AR1254	1	19240	18400	17420	17091	16376	19600				7.0	
	2	30340	29165	27388	27065	25500	31520				7.9	
	3	22290	21295	19865	19844	18828	22960				7.7	
DCB (A)	l	12314400	12221200	10792700	10247100	10243413					9.3	
TCX (A)	e	484400	496300	581800	595075	583188					9.7	

At least three peaks for each column are required for identification of Aroclors.

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: SDG No.: SL1326

Instrument ID: E2 Date(s) Analyzed: 05/24/2012 05/25/2012

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)									% RSD
		CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	
AR1016	1	14830	13770	12470	11331	10482	15460				15.1
	2	24710	23705	22378	21326	20602	25020				7.9
	3	12700	12205	11400	10755	10355	12860				8.9
AR1260	1	17890	16960	15668	14754	13961	18400				10.9
	2	19050	18120	16900	16104	15289	19480				9.5
	3	15970	15475	15925	15531	15201	15980				2.1
AR1242	1	10460	9990	9543	9150	8947	10420				6.6
	2	5880	5750	5625	5616	5778	5740				1.7
	3	8910	8505	8123	7828	7805	8920				6.1
AR1248	1	12920	12620	11825	11930	11418	13020				5.3
	2	18720	17985	16670	16715	15850	19120				7.4
	3	12630	12395	11685	11953	11727	12540				3.4
AR1254	1	12040	11485	10908	10780	10473	11900				5.7
	2	21820	20970	19620	19303	18288	22080				7.4
	3	9980	9575	9095	9065	9070	9320				3.9
DCB (A)	l	91800	88850	71950	69000	67400					14.9
TCX (A)	e	349200	367600	460250	473000	473950					14.4

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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Instrument ID: E2 Date(s) Analyzed: 05/24/2012 05/25/2012
 GC Column: CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK ¹	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	0.4	1	3.12	3.05	3.19	5035
		2	3.57	3.50	3.64	1768
		3	3.94	3.87	4.01	6025
		4				
		5				
Aroclor-1232	0.4	1	3.94	3.87	4.01	4103
		2	4.18	4.11	4.25	12525
		3	4.65	4.58	4.72	7865
		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.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 Instrument ID: E2 Date(s) Analyzed: 05/24/2012 05/25/2012
 GC Column: CLPPestII ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK ¹	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	0.4	1	3.77	3.70	3.84	4423
		2	4.28	4.21	4.35	1445
		3	4.84	4.77	4.91	4443
		4				
		5				
Aroclor-1232	0.4	1	4.84	4.77	4.91	3013
		2	5.14	5.07	5.21	8725
		3	5.75	5.68	5.82	6093
		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: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
GC Column: <u>CLPPest</u> ID: <u>0.53</u> (mm)	Calibration Date(s): <u>05/24/2012</u> <u>05/25/2012</u>
EPA Sample No. (AR####3##): <u>AR16603RE</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID: <u>AR16603RE</u>	Time Analyzed: <u>15:22</u>
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 WINDOW		CF	CF	%D
		RT	FROM	TO			
AR1016	1	4.657	4.582	4.722	17448.125	17335	-0.6
	2	5.292	5.217	5.357	27045.3125	27555	1.9
	3	6.012	5.938	6.078	12715.72917	13160	3.5
AR1260	1	7.288	7.216	7.356	23990.52083	25550	6.5
	2	7.545	7.473	7.613	34284.27083	38912.5	13.5
	3	7.814	7.743	7.883	26416.14583	32660	23.6
TCX		3.730	3.675	3.775	548152.5	613850	12.0
DCB		10.789	10.688	10.888	11163762.5	10293525	-7.8

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

7N - FORM VII ARO
 AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
GC Column: <u>CLPPestII</u> ID: <u>0.53</u> (mm)	Calibration Date(s): <u>05/24/2012</u> <u>05/25/2012</u>
EPA Sample No. (AR####3##): <u>AR16603RE</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID: <u>AR16603RE</u>	Time Analyzed: <u>15:22</u>
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 WINDOW		CF	CF	%D
		RT	FROM	TO			
AR1016	1	5.749	5.676	5.816	13057.1875	12327.5	-5.6
	2	6.327	6.255	6.395	22956.77083	22492.5	-2.0
	3	6.489	6.417	6.557	11712.5	11435	-2.4
AR1260	1	8.280	8.209	8.349	16271.97917	17075	4.9
	2	8.523	8.453	8.593	17490.41667	19175	9.6
	3	8.985	8.915	9.055	15680.3125	18757.5	19.6
TCX		4.415	4.361	4.461	424800	448550	5.6
DCB		14.633	14.534	14.734	77800	84850	9.1

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

7N - FORM VII ARO
 AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1326</u>	Mod. Ref No.: _____ SDG No.: <u>SL1326</u>
GC Column: <u>CLPPest</u> ID: <u>0.53</u> (mm)	Calibration Date(s): <u>05/24/2012</u> <u>05/25/2012</u>
EPA Sample No. (AR####3##): <u>AR16603RF</u>	Date Analyzed: <u>06/18/2012</u>
Lab Sample ID: <u>AR16603RF</u>	Time Analyzed: <u>21:17</u>
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 WINDOW		CF	CF	%D
		RT	FROM	TO			
AR1016	1	4.657	4.582	4.722	17448.125	15755	-9.7
	2	5.292	5.217	5.357	27045.3125	25285	-6.5
	3	6.013	5.938	6.078	12715.72917	12237.5	-3.8
AR1260	1	7.288	7.216	7.356	23990.52083	23335	-2.7
	2	7.545	7.473	7.613	34284.27083	34960	2.0
	3	7.815	7.743	7.883	26416.14583	29320	11.0
TCX		3.730	3.675	3.775	548152.5	556850	1.6
DCB		10.792	10.688	10.888	11163762.5	9467100	-15.2

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.: L1326	Mod. Ref No.: _____ SDG No.: SL1326
GC Column: CLPPestII ID: 0.53 (mm)	Calibration Date(s): 05/24/2012 05/25/2012
EPA Sample No. (AR####3##): AR16603RF	Date Analyzed: 06/18/2012
Lab Sample ID: AR16603RF	Time Analyzed: 21:17
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 WINDOW		CF	CF	%D
		RT	FROM	TO			
AR1016	1	5.749	5.676	5.816	13057.1875	11267.5	-13.7
	2	6.327	6.255	6.395	22956.77083	20462.5	-10.9
	3	6.490	6.417	6.557	11712.5	10227.5	-12.7
AR1260	1	8.281	8.209	8.349	16271.97917	15135	-7.0
	2	8.525	8.453	8.593	17490.41667	16865	-3.6
	3	8.986	8.915	9.055	15680.3125	16442.5	4.9
TCX		4.416	4.361	4.461	424800	404200	-4.8
DCB		14.640	14.534	14.734	77800	77800	0.0

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

8H - FORM VIII ARO
AROCLOL ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 05/24/2012 05/25/2012
 Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>3.725</u>			DCB: <u>10.788</u>			
EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT
01	AR12213R2	E2L0932F.D	5/24/2012	20:21	3.725	10.789
02	AR12323R2	E2L0933F.D	5/24/2012	20:42	3.725	10.789
03	AR12421R2	E2L0934F.D	5/24/2012	21:03	3.726	10.789
04	AR12426R2	E2L0935F.D	5/24/2012	21:24	3.726	10.790
05	AR12422R2	E2L0936F.D	5/24/2012	21:45	3.726	10.790
06	AR12423R2	E2L0937F.D	5/24/2012	22:06	3.725	10.789
07	AR12424R2	E2L0938F.D	5/24/2012	22:27	3.725	10.789
08	AR12425R2	E2L0939F.D	5/24/2012	22:48	3.725	10.788
09	AR12481R2	E2L0940F.D	5/24/2012	23:09	3.726	10.791
10	AR12486R2	E2L0941F.D	5/24/2012	23:30	3.726	10.790
11	AR12482R2	E2L0942F.D	5/24/2012	23:51	3.726	10.789
12	AR12483R2	E2L0943F.D	5/25/2012	0:12	3.725	10.789
13	AR12484R2	E2L0944F.D	5/25/2012	0:32	3.725	10.790
14	AR12485R2	E2L0945F.D	5/25/2012	0:53	3.725	10.789
15	AR12541R2	E2L0946F.D	5/25/2012	1:14	3.725	10.790
16	AR12546R2	E2L0947F.D	5/25/2012	1:35	3.725	10.790
17	AR12542R2	E2L0948F.D	5/25/2012	1:56	3.725	10.789
18	AR12543R2	E2L0949F.D	5/25/2012	2:17	3.725	10.789
19	AR12544R2	E2L0950F.D	5/25/2012	2:38	3.725	10.789
20	AR12545R2	E2L0951F.D	5/25/2012	2:59	3.724	10.787
21	AR12623R2	E2L0952F.D	5/25/2012	3:20	3.725	10.787
22	AR12683R2	E2L0953F.D	5/25/2012	3:41	3.724	10.786
23	AR16601R2	E2L0954F.D	5/25/2012	4:02	3.726	10.788
24	AR16606R2	E2L0955F.D	5/25/2012	4:23	3.726	10.788
25	AR16602R2	E2L0956F.D	5/25/2012	4:43	3.725	10.788
26	AR16603R2	E2L0957F.D	5/25/2012	5:04	3.726	10.788
27	AR16604R2	E2L0958F.D	5/25/2012	5:25	3.725	10.788

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
AROCLOL ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 05/24/2012 05/25/2012
 Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>3.725</u>			DCB: <u>10.788</u>			
	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
28	AR16605R2	E2L0959F.D	5/25/2012	5:46	3.725	10.786
29	AR16603RE	E2L1429F.D	6/18/2012	15:22	3.730	10.789
30	MB-66785	E2L1437F.D	6/18/2012	18:09	3.730	10.790
31	LCS-66785	E2L1438F.D	6/18/2012	18:30	3.729	10.789
32	LCSD-66785	E2L1439F.D	6/18/2012	18:51	3.730	10.790
33	GP-24 8-12	E2L1440F.D	6/18/2012	19:12	3.729	10.790
34	AR16603RF	E2L1446F.D	6/18/2012	21:17	3.730	10.792

QC LIMITS
 (± 0.05 MINUTES)
 (± 0.10 MINUTES)

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCOR ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 05/24/2012 05/25/2012
 Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>4.411</u>			DCB: <u>14.634</u>			
EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT
01	AR12213R2	E2L0932R.D	5/24/2012	20:21	4.411	14.637
02	AR12323R2	E2L0933R.D	5/24/2012	20:42	4.411	14.636
03	AR12421R2	E2L0934R.D	5/24/2012	21:03	4.412	14.638
04	AR12426R2	E2L0935R.D	5/24/2012	21:24	4.412	14.638
05	AR12422R2	E2L0936R.D	5/24/2012	21:45	4.412	14.639
06	AR12423R2	E2L0937R.D	5/24/2012	22:06	4.410	14.637
07	AR12424R2	E2L0938R.D	5/24/2012	22:27	4.411	14.638
08	AR12425R2	E2L0939R.D	5/24/2012	22:48	4.410	14.637
09	AR12481R2	E2L0940R.D	5/24/2012	23:09	4.412	14.638
10	AR12486R2	E2L0941R.D	5/24/2012	23:30	4.412	14.640
11	AR12482R2	E2L0942R.D	5/24/2012	23:51	4.411	14.639
12	AR12483R2	E2L0943R.D	5/25/2012	0:12	4.411	14.639
13	AR12484R2	E2L0944R.D	5/25/2012	0:32	4.410	14.638
14	AR12485R2	E2L0945R.D	5/25/2012	0:53	4.409	14.638
15	AR12541R2	E2L0946R.D	5/25/2012	1:14	4.411	14.638
16	AR12546R2	E2L0947R.D	5/25/2012	1:35	4.412	14.638
17	AR12542R2	E2L0948R.D	5/25/2012	1:56	4.411	14.639
18	AR12543R2	E2L0949R.D	5/25/2012	2:17	4.411	14.638
19	AR12544R2	E2L0950R.D	5/25/2012	2:38	4.410	14.637
20	AR12545R2	E2L0951R.D	5/25/2012	2:59	4.408	14.632
21	AR12623R2	E2L0952R.D	5/25/2012	3:20	4.410	14.633
22	AR12683R2	E2L0953R.D	5/25/2012	3:41	4.410	14.632
23	AR16601R2	E2L0954R.D	5/25/2012	4:02	4.412	14.634
24	AR16606R2	E2L0955R.D	5/25/2012	4:23	4.412	14.635
25	AR16602R2	E2L0956R.D	5/25/2012	4:43	4.412	14.634
26	AR16603R2	E2L0957R.D	5/25/2012	5:04	4.411	14.633
27	AR16604R2	E2L0958R.D	5/25/2012	5:25	4.410	14.635

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
AROCLOL ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
 GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 05/24/2012 05/25/2012
 Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>4.411</u>			DCB: <u>14.634</u>			
EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT
28	AR16605R2	E2L0959R.D	5/25/2012	5:46	4.410	14.632
29	AR16603RE	E2L1429R.D	6/18/2012	15:22	4.415	14.633
30	MB-66785	E2L1437R.D	6/18/2012	18:09	4.414	14.635
31	LCS-66785	E2L1438R.D	6/18/2012	18:30	4.414	14.633
32	LCSD-66785	E2L1439R.D	6/18/2012	18:51	4.414	14.637
33	GP-24 8-12	E2L1440R.D	6/18/2012	19:12	4.415	14.638
34	AR16603RF	E2L1446R.D	6/18/2012	21:17	4.416	14.640

QC LIMITS
 (± 0.05 MINUTES)
 (± 0.10 MINUTES)

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

Column used to flag RT values with an asterisk.

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

LCS-66785

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCS-66785 Date(s) Analyzed: 06/18/2012 06/18/2012
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		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1016	1	4.656	4.582	4.722	126.7376	130.615479	
	2	5.291	5.217	5.357	132.1239		
	3	6.012	5.938	6.078	132.9849		
	4						
	5						
COLUMN 1	1	5.748	5.676	5.816	120.6232	126.176206	3.5
	2	6.326	6.255	6.395	128.3572		
	3	6.488	6.417	6.557	129.5482		
	4						
	5						
COLUMN 2	1	7.288	7.216	7.356	136.5123	141.534951	
	2	7.545	7.473	7.613	140.7837		
	3	7.814	7.743	7.883	147.3089		
	4						
	5						
Aroclor-1260	1	8.279	8.209	8.349	135.1403	140.391870	0.8
	2	8.524	8.453	8.593	142.0969		
	3	8.984	8.915	9.055	143.9385		
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	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-66785

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Lab Sample ID: LCSD-66785 Date(s) Analyzed: 06/18/2012 06/18/2012
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		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1016	1	4.656	4.582	4.722	129.5459	133.730470	
	2	5.291	5.217	5.357	135.4887		
	3	6.012	5.938	6.078	136.1568		
	4						
	5						
COLUMN 1	1	5.748	5.676	5.816	123.8654	127.696586	4.7
	2	6.327	6.255	6.395	130.2738		
	3	6.489	6.417	6.557	128.9505		
	4						
	5						
COLUMN 2	1	7.288	7.216	7.356	138.6520	144.169126	
	2	7.544	7.473	7.613	143.7199		
	3	7.814	7.743	7.883	150.1355		
	4						
	5						
Aroclor-1260	1	8.280	8.209	8.349	138.5613	143.899136	0.2
	2	8.524	8.453	8.593	145.2224		
	3	8.984	8.915	9.055	147.9137		
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0932F.D
 Lab Smp Id: AR12213R2 Client Smp ID: AR12213R2
 Inj Date : 24-MAY-2012 20:21
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12213R2,AR12213R2,,ar1221.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.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: 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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.725	3.724	0.001	9885 0.02000	0.018		(a)

3 Aroclor-1221 CAS #: 11104-28-2						
3.120	3.120	0.000	2014 0.40000	0.40	80.00- 120.00	100.00(a)
3.570	3.570	0.000	707 0.40000	0.40	15.10- 55.10	35.10
3.944	3.944	0.000	2410 0.40000	0.40	99.66- 139.66	119.66
Average of Peak Amounts =			0.40000			

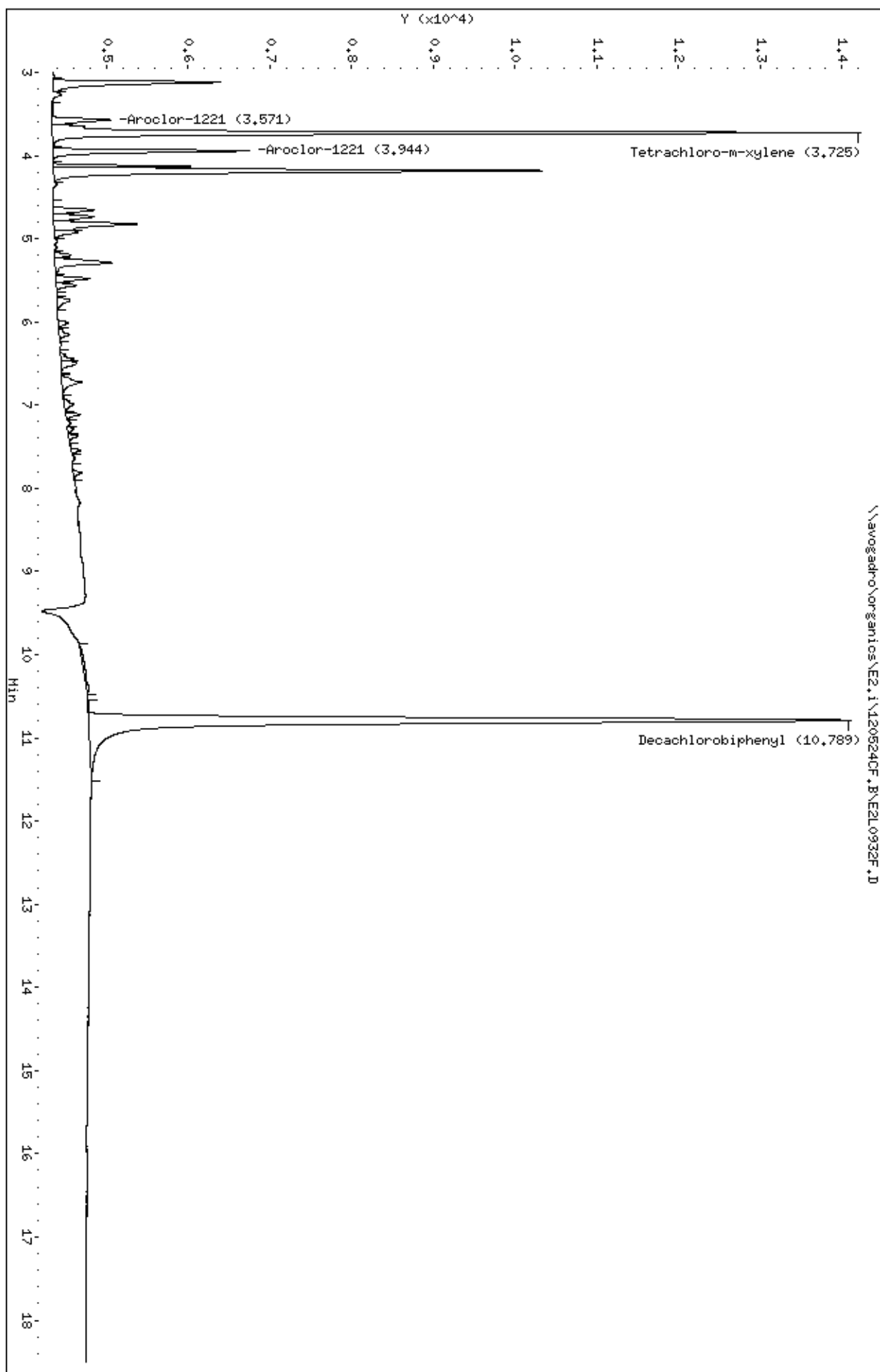
\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
10.789	10.786	0.003	496306 0.04000	0.044		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0932F.D
Date : 24-May-2012 20:21
Client ID: AR12213R2
Sample Info: AR12213R2,AR12213R2,,ar1221,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0932R.D
 Lab Smp Id: AR12213R2 Client Smp ID: AR12213R2
 Inj Date : 24-MAY-2012 20:21
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12213R2,AR12213R2,,ar1221.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:04 Cal File: E2L0957R.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: 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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.411	4.409	0.002	7623 0.02000	0.084		

2	Aroclor-1221		CAS #: 11104-28-2			
3.774	3.774	0.000	1769 0.40000	0.40	80.00- 120.00	100.00(a)
4.278	4.278	0.000	578 0.40000	0.40	12.67- 52.67	32.67
4.839	4.839	0.000	1777 0.40000	0.40	80.45- 120.45	100.45
Average of Peak Amounts =			0.40000			

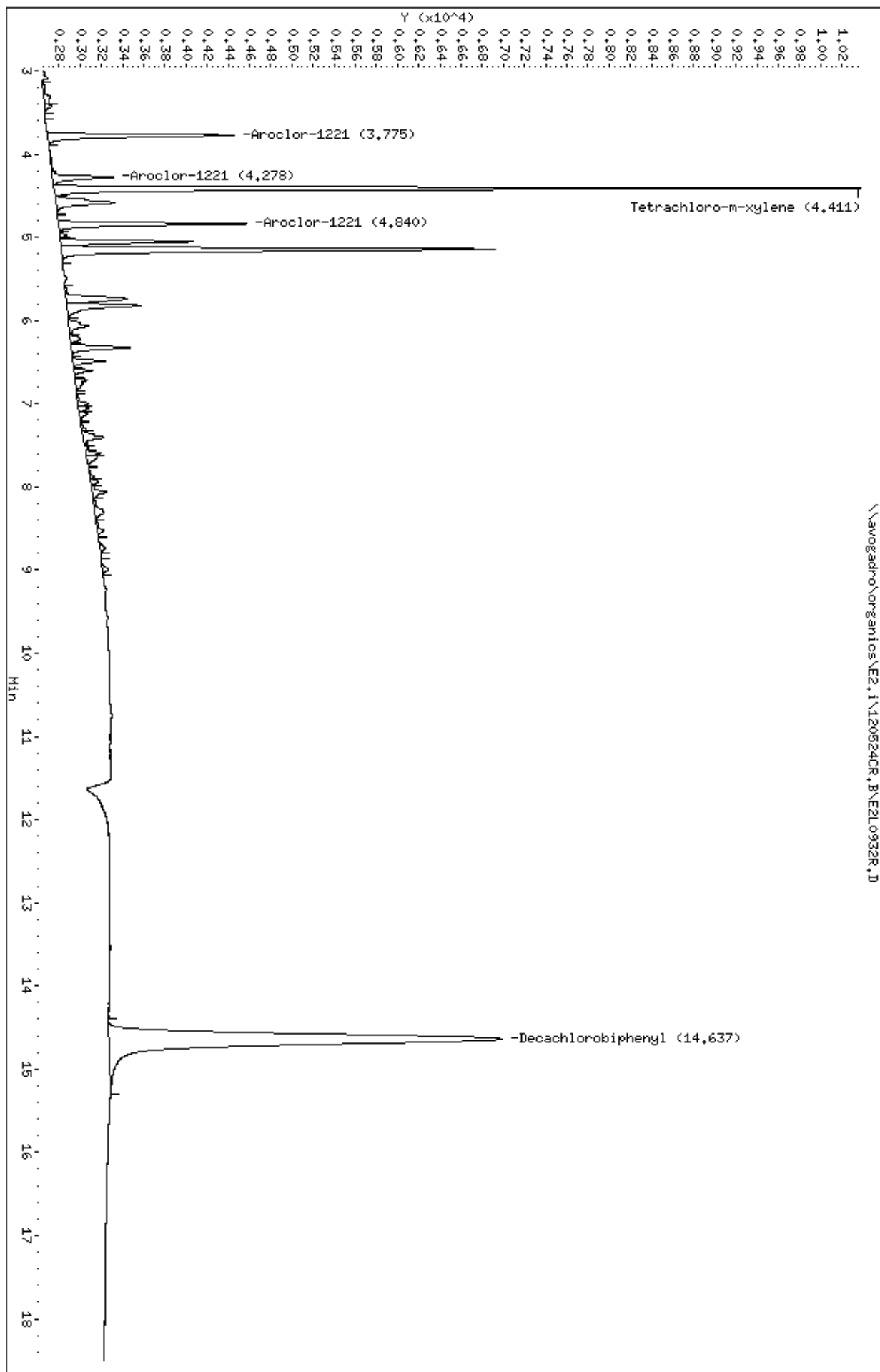
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.637	14.631	0.006	3722 0.04000	0.045	(a)	

QC Flag Legend

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

Data File: \\avogadro\organics\E2,1\120524CR,B\E2L0932R.D
Date : 24-May-2012 20:21
Client ID: AR12213R2
Sample Info: AR12213R2,AR12213R2,,ar1221,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0933F.D
 Lab Smp Id: AR12323R2 Client Smp ID: AR12323R2
 Inj Date : 24-MAY-2012 20:42
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12323R2,AR12323R2,,ar1232.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 2 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1232.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.725	3.724	0.001	9932 0.02000	0.018		(a)

4	Aroclor-1232		CAS #: 11141-16-5			
3.944	3.944	0.000	1641 0.40000	0.40	80.00- 120.00	100.00(a)
4.183	4.183	0.000	5010 0.40000	0.40	285.30- 325.30	305.30
4.653	4.653	0.000	3146 0.40000	0.40	171.71- 211.71	191.71
Average of Peak Amounts =			0.40000			

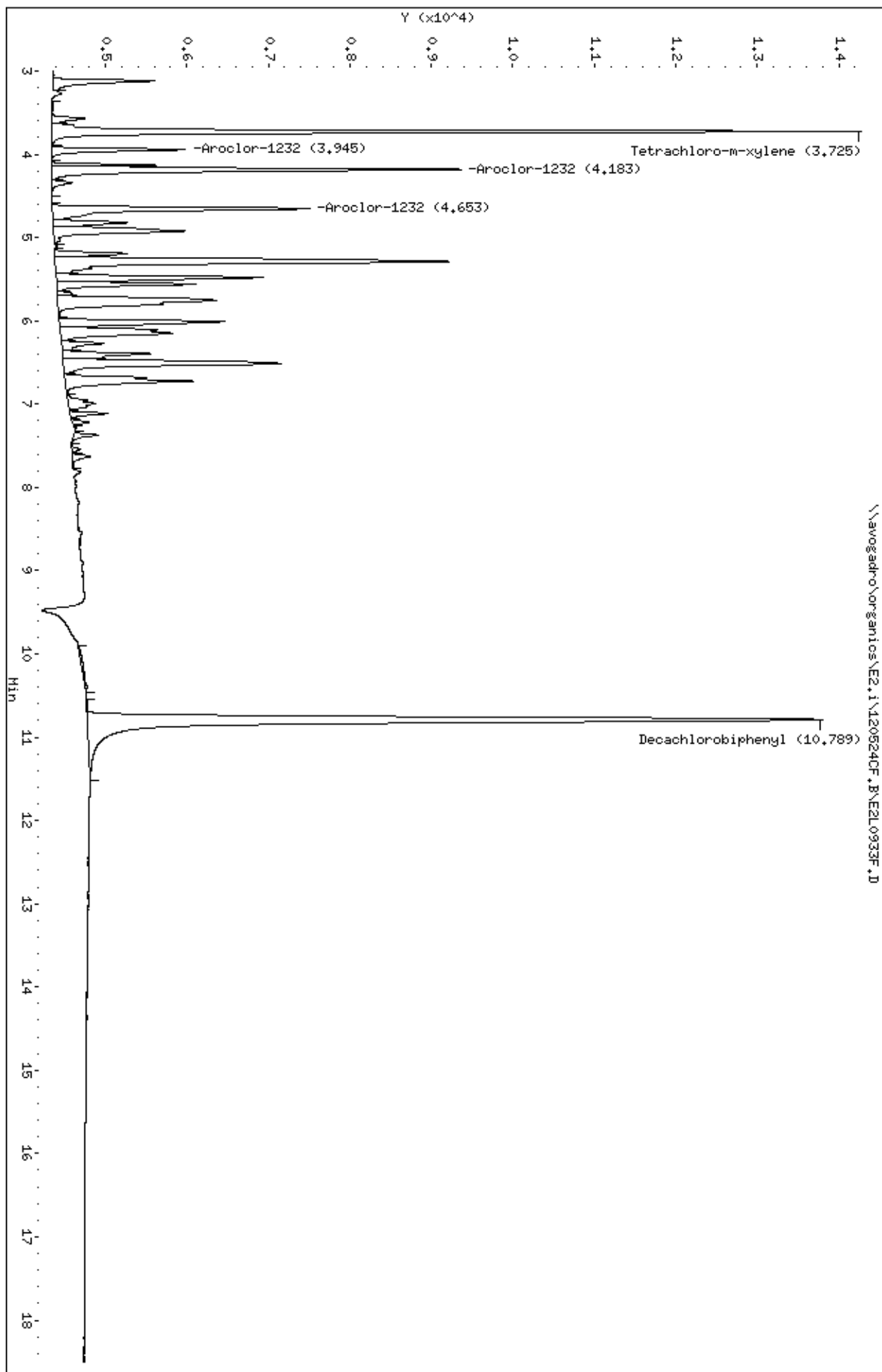
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.789	10.786	0.003	484776 0.04000	0.043		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0933F.D
Date : 24-May-2012 20:42
Client ID: AR12323R2
Sample Info: AR12323R2,AR12323R2,,ar1232,sub,,
Volume Injected (uL): 1.0
Column phase: CLPrest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0933R.D
 Lab Smp Id: AR12323R2 Client Smp ID: AR12323R2
 Inj Date : 24-MAY-2012 20:42
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12323R2,AR12323R2,,ar1232.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:04 Cal File: E2L0957R.D
 Als bottle: 2 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1232.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.411	4.409	0.002	7682 0.02000	0.084		

3	Aroclor-1232		CAS #: 11141-16-5			
4.839	4.839	0.000	1205 0.40000	0.40 80.00- 120.00	100.00(a)	
5.143	5.143	0.000	3490 0.40000	0.40 269.63- 309.63	289.63	
5.747	5.747	0.000	2437 0.40000	0.40 182.24- 222.24	202.24	
Average of Peak Amounts =			0.40000			

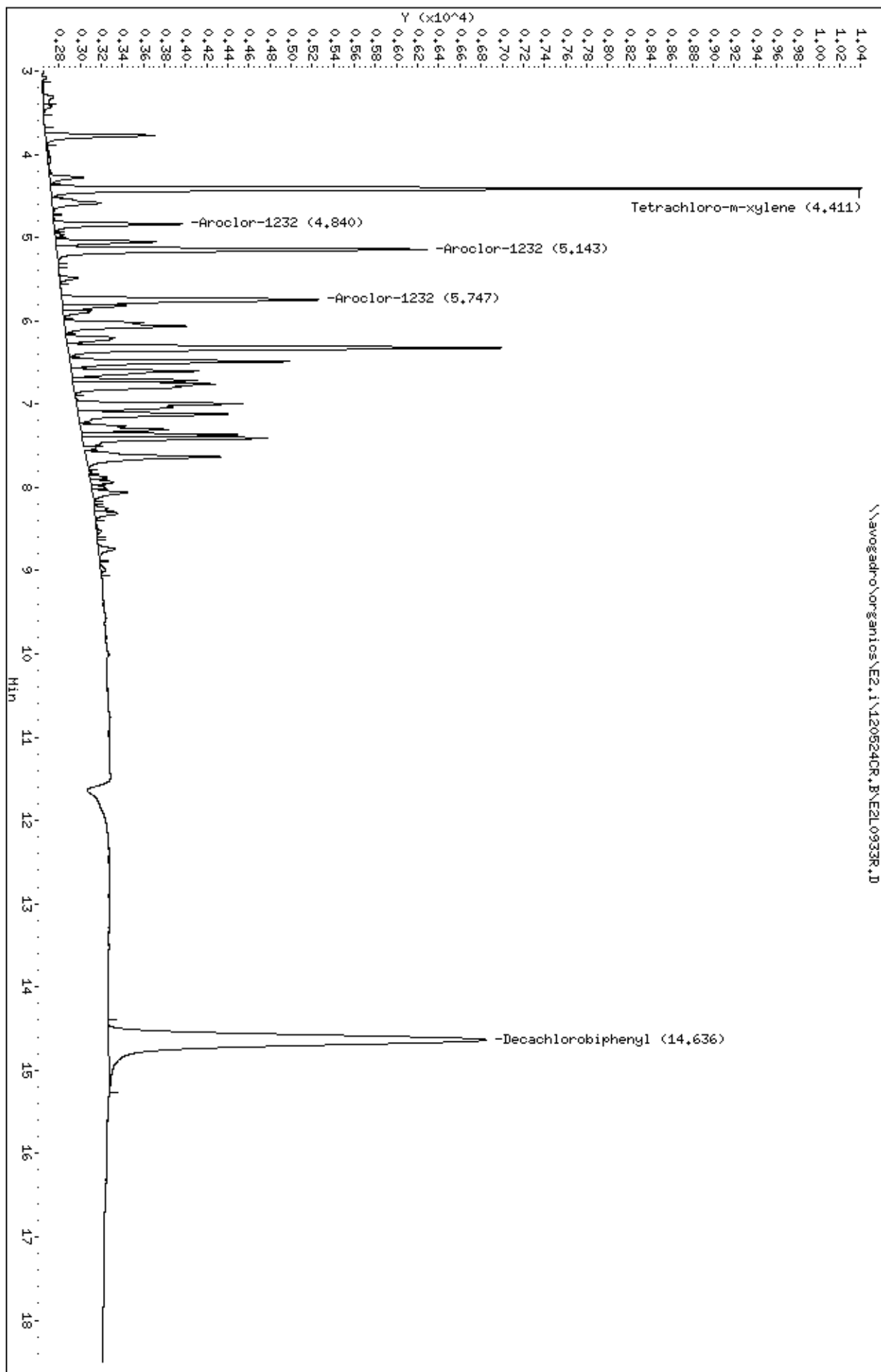
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.636	14.631	0.005	3587 0.04000	0.044	(a)	

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0933R.D
Date : 24-May-2012 20:42
Client ID: AR12323R2
Sample Info: AR12323R2,AR12323R2,,ar1232,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0934F.D
 Lab Smp Id: AR12421R2 Client Smp ID: AR12421R2
 Inj Date : 24-MAY-2012 21:03
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12421R2,AR12421R2,,ar1242.sub,,
 Misc Info : 1,1,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.726	3.724	0.002	2433 0.00500	0.0044		(a)

6	Aroclor-1242		CAS #: 53469-21-9			
4.923	4.921	0.002	798 0.10000	0.11 80.00- 120.00	100.00(a)	
5.479	5.477	0.002	1266 0.10000	0.11 134.85- 174.85	158.65	
5.753	5.753	0.000	1151 0.10000	0.11 118.94- 158.94	144.24	
Average of Peak Amounts =			0.11000			

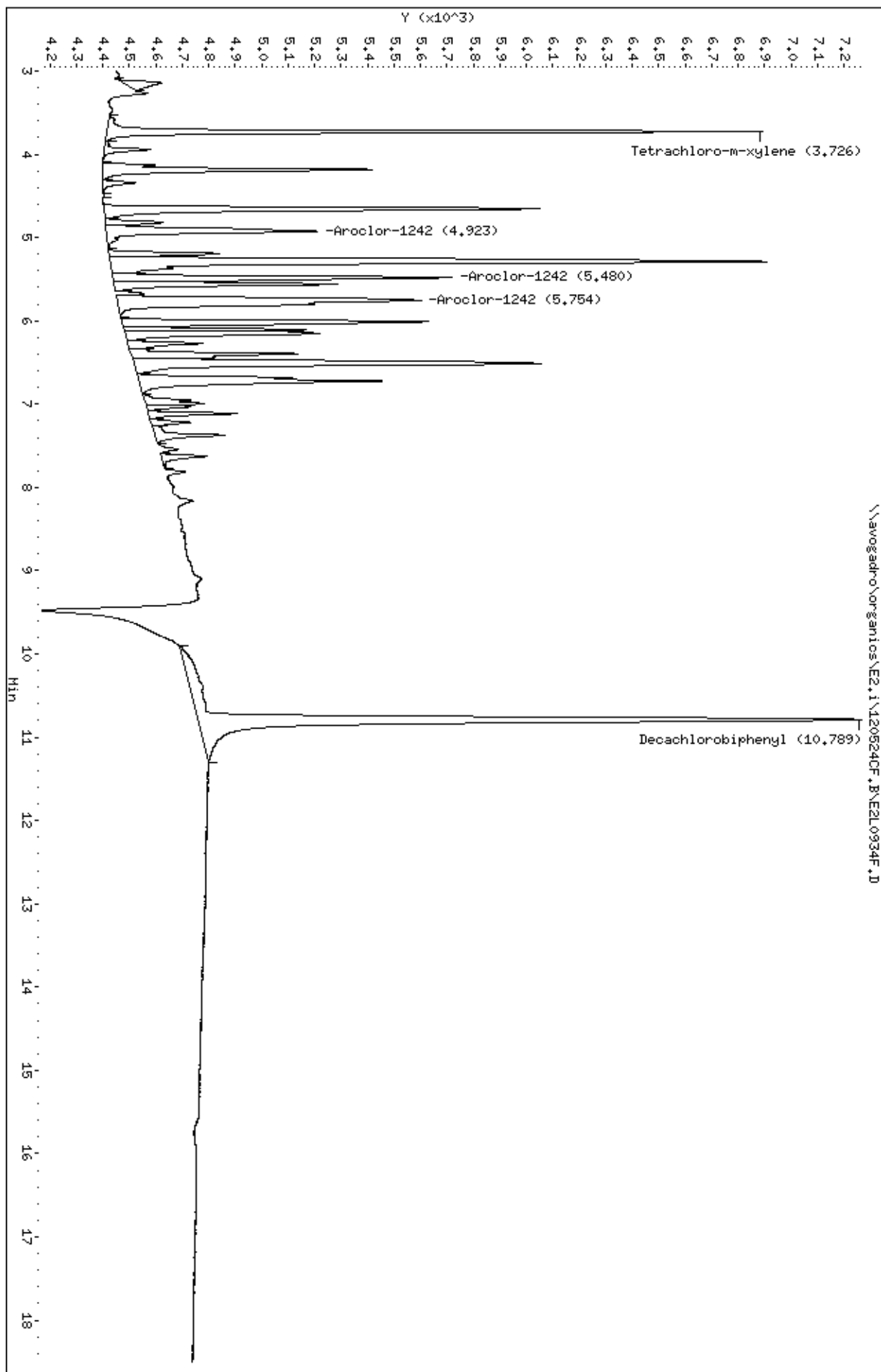
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.788	10.786	0.002	152420 0.01000	0.014		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0934F.D
Date : 24-May-2012 21:03
Client ID: AR12421R2
Sample Info: AR12421R2,AR12421R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLPrest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0934R.D
 Lab Smp Id: AR12421R2 Client Smp ID: AR12421R2
 Inj Date : 24-MAY-2012 21:03
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12421R2,AR12421R2,,ar1242.sub,,
 Misc Info : 1,1,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:02 Cal File: E2L0954R.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.412	4.409	0.003	1824 0.00500	0.011		(a)

4	Aroclor-1242		CAS #: 53469-21-9			
6.489	6.486	0.003	1046 0.10000	0.11	80.00- 120.00	100.00(a)
6.604	6.602	0.002	588 0.10000	0.10	38.62- 78.62	56.21
6.996	6.994	0.002	891 0.10000	0.11	66.61- 106.61	85.18
Average of Peak Amounts =			0.10667			

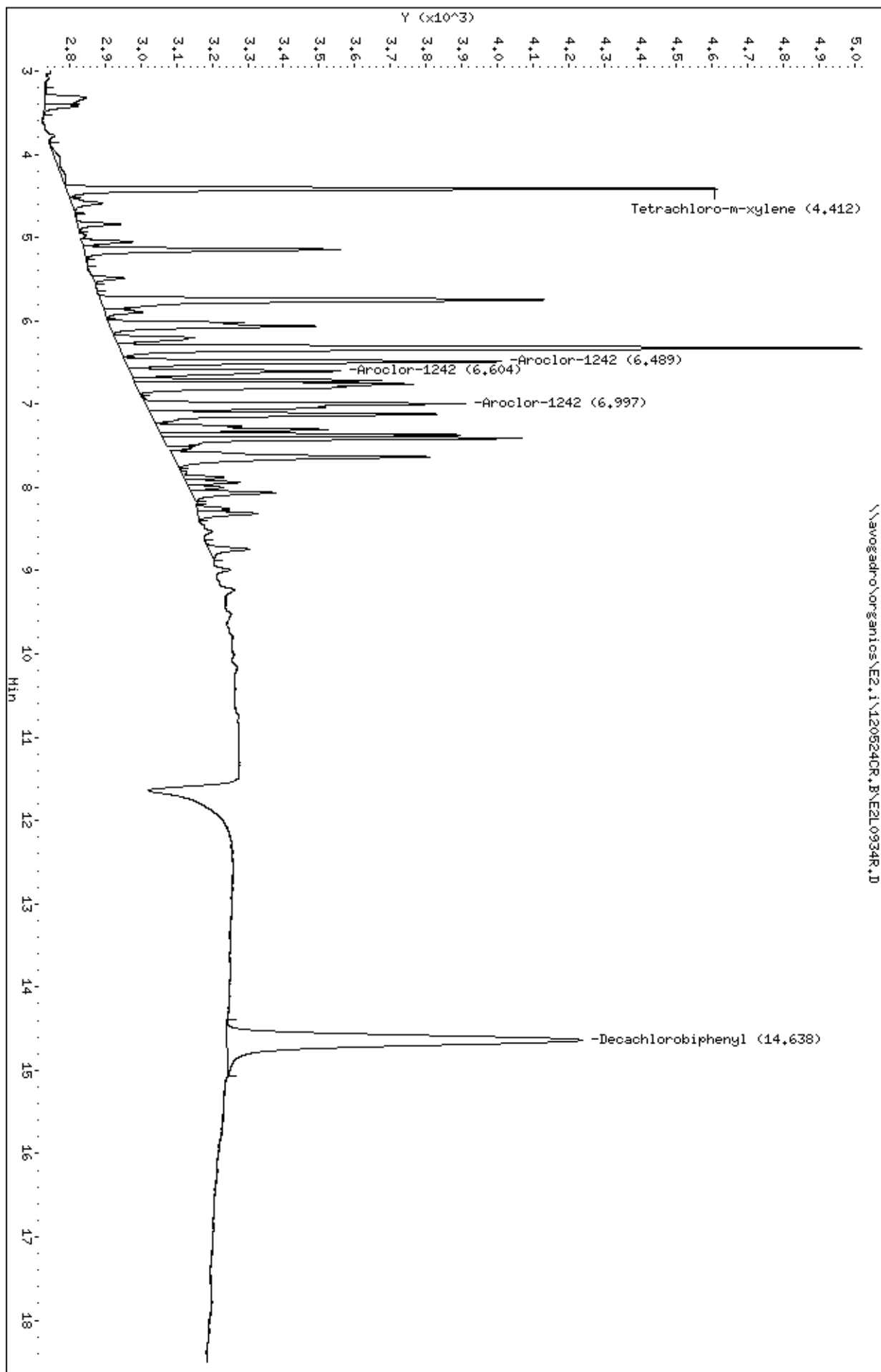
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.637	14.631	0.006	995 0.01000	0.012		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0934R.D
Date : 24-May-2012 21:03
Client ID: AR12421R2
Sample Info: AR12421R2,AR12421R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0935F.D
 Lab Smp Id: AR12426R2 Client Smp ID: AR12426R2
 Inj Date : 24-MAY-2012 21:24
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12426R2,AR12426R2,,ar1242.sub,,
 Misc Info : 1,6,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 4 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.725	3.724	0.001	1204 0.00000	0.0022		(a)

6	Aroclor-1242		CAS #: 53469-21-9			
4.923	4.921	0.002	395 0.05000	0.054	80.00- 120.00	100.00(a)
5.479	5.477	0.002	634 0.05000	0.055	134.85- 174.85	160.51
5.753	5.753	0.000	583 0.05000	0.057	118.94- 158.94	147.59
Average of Peak Amounts =			0.05533			

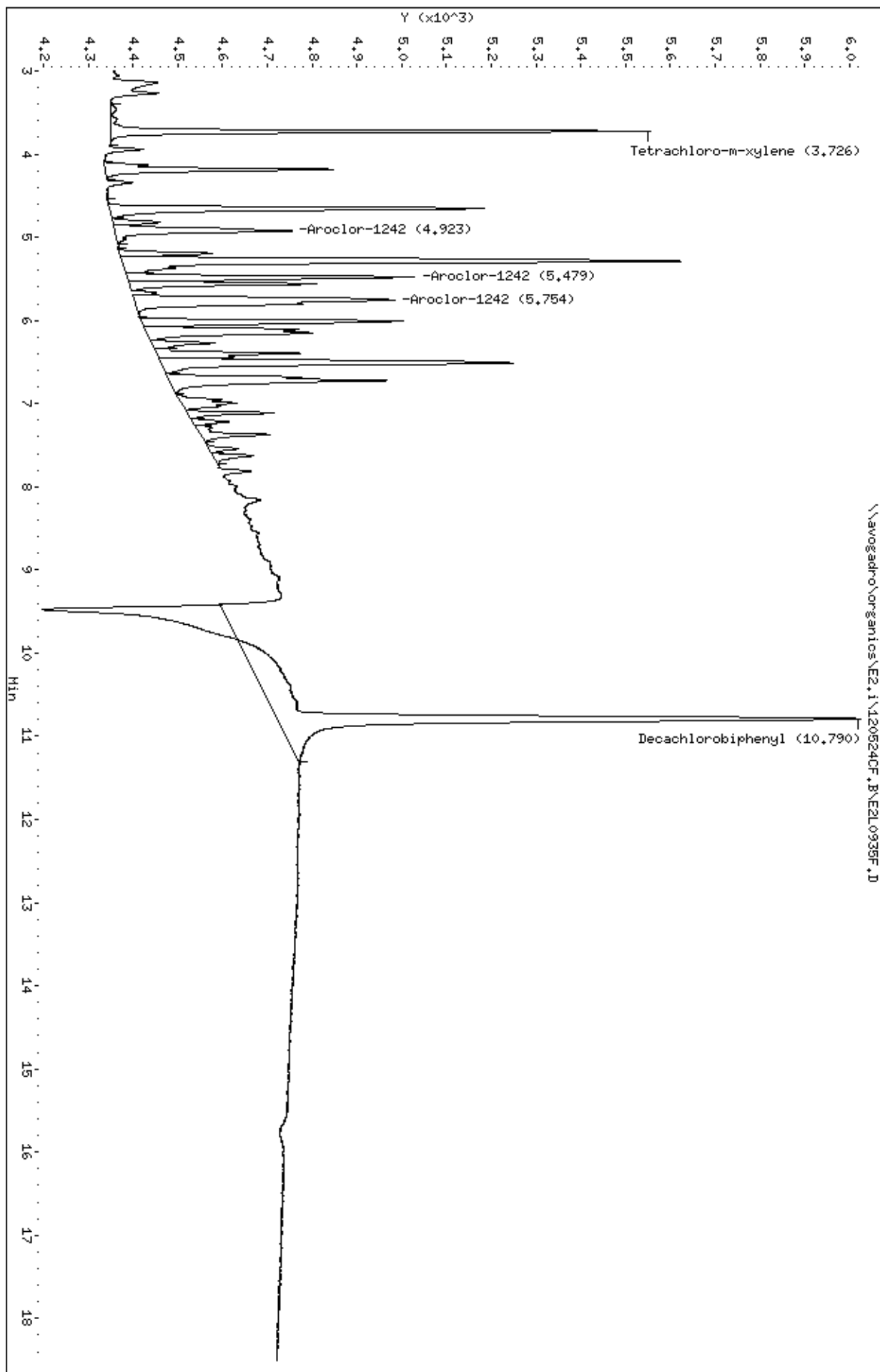
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.789	10.786	0.003	67900 0.00000	0.0061		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0935F.D
Date : 24-MAY-2012 21:24
Client ID: AR12426R2
Sample Info: AR12426R2,AR12426R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLPrest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0935R.D
 Lab Smp Id: AR12426R2 Client Smp ID: AR12426R2
 Inj Date : 24-MAY-2012 21:24
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12426R2,AR12426R2,,ar1242.sub,,
 Misc Info : 1,6,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:23 Cal File: E2L0955R.D
 Als bottle: 4 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.411	4.409	0.002	869 0.00000	0.0054		(a)

4	Aroclor-1242		CAS #: 53469-21-9			
6.488	6.486	0.002	521 0.05000	0.053	80.00- 120.00	100.00(a)
6.603	6.602	0.001	287 0.05000	0.050	38.62- 78.62	55.09
6.996	6.994	0.002	446 0.05000	0.053	66.61- 106.61	85.60
Average of Peak Amounts =			0.05200			

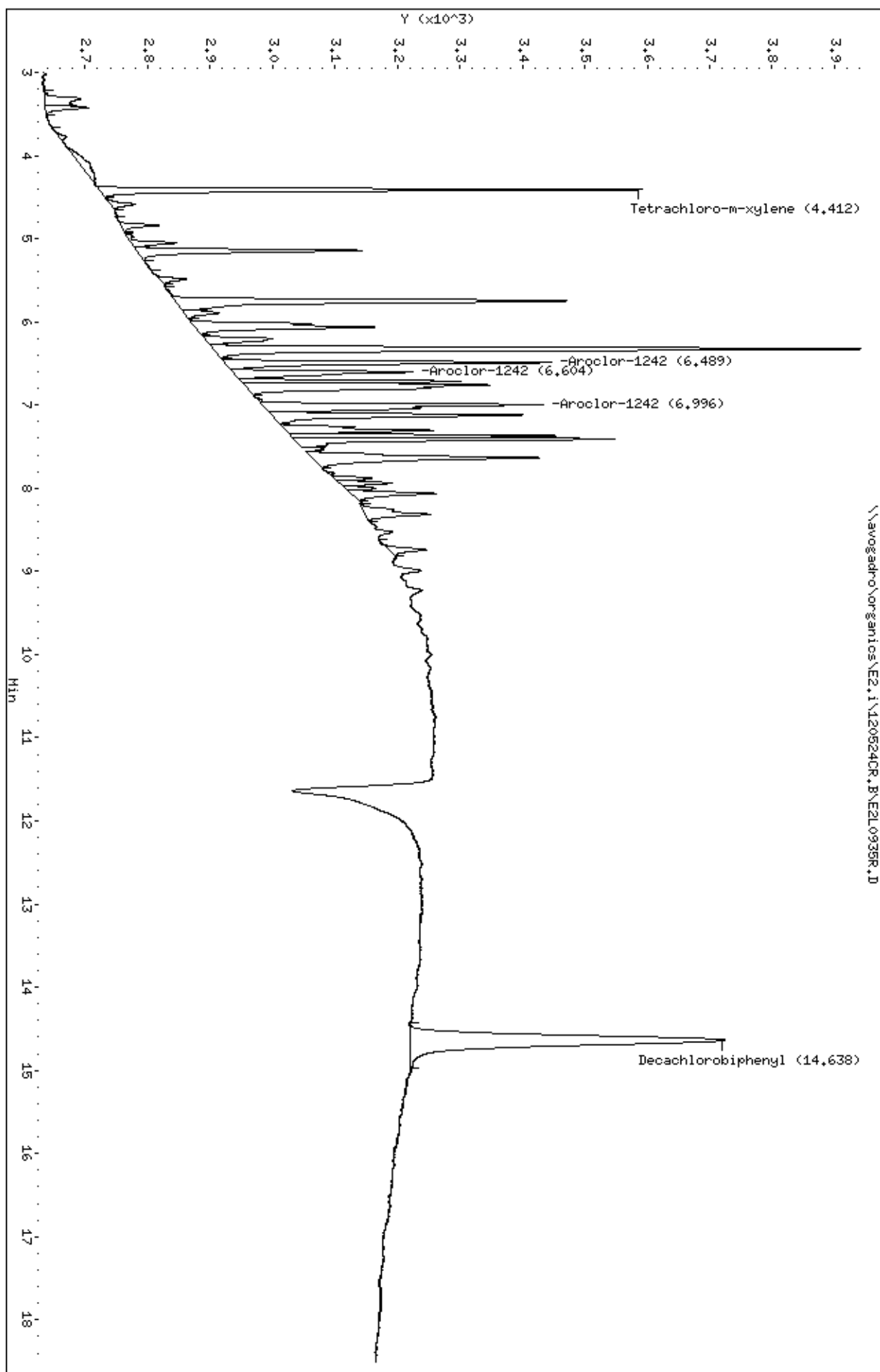
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.637	14.631	0.006	503 0.00000	0.0061		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0935R.D
Date : 24-May-2012 21:24
Client ID: AR12426R2
Sample Info: AR12426R2,AR12426R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0936F.D
 Lab Smp Id: AR12422R2 Client Smp ID: AR12422R2
 Inj Date : 24-MAY-2012 21:45
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12422R2,AR12422R2,,ar1242.sub,,
 Misc Info : 1,2,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 5 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.726	3.724	0.002	4804 0.01000	0.0088		(a)

6	Aroclor-1242		CAS #: 53469-21-9			
4.923	4.921	0.002	1513 0.20000	0.21 80.00- 120.00	100.00(a)	
5.480	5.477	0.003	2384 0.20000	0.20 134.85- 174.85	157.57	
5.754	5.753	0.001	2147 0.20000	0.21 118.94- 158.94	141.90	
Average of Peak Amounts =			0.20667			

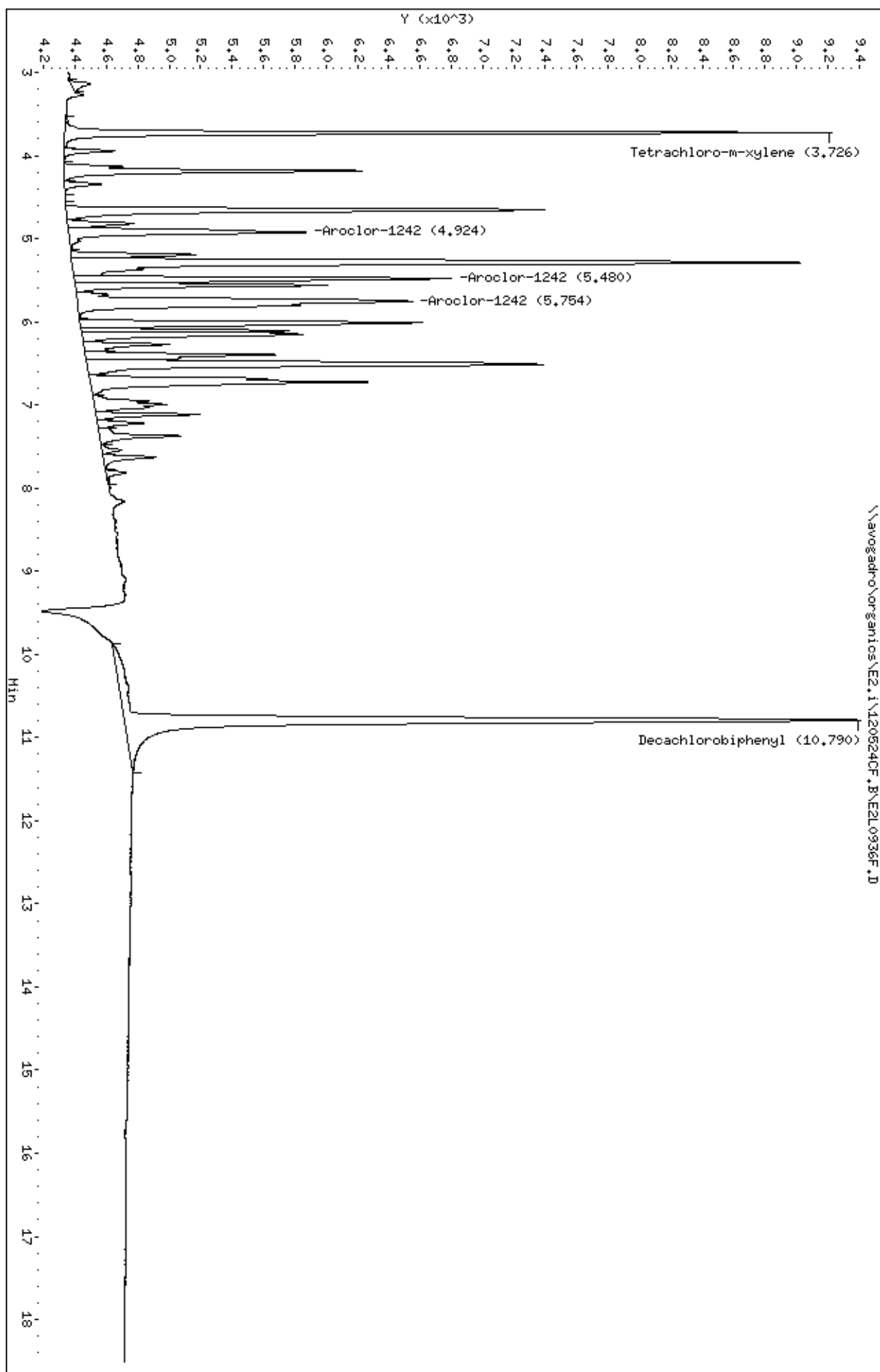
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.790	10.786	0.004	275190 0.02000	0.025		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0936F.D
Date : 24-May-2012 21:45
Client ID: AR12422R2
Sample Info: AR12422R2,AR12422R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0936R.D
 Lab Smp Id: AR12422R2 Client Smp ID: AR12422R2
 Inj Date : 24-MAY-2012 21:45
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12422R2,AR12422R2,,ar1242.sub,,
 Misc Info : 1,2,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:43 Cal File: E2L0956R.D
 Als bottle: 5 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.412	4.409	0.003	3702 0.01000	0.016		(a)

4	Aroclor-1242		CAS #: 53469-21-9			
6.489	6.486	0.003	1998 0.20000	0.20	80.00- 120.00	100.00(a)
6.604	6.602	0.002	1150 0.20000	0.20	38.62- 78.62	57.56
6.996	6.994	0.002	1701 0.20000	0.20	66.61- 106.61	85.14
Average of Peak Amounts =			0.20000			

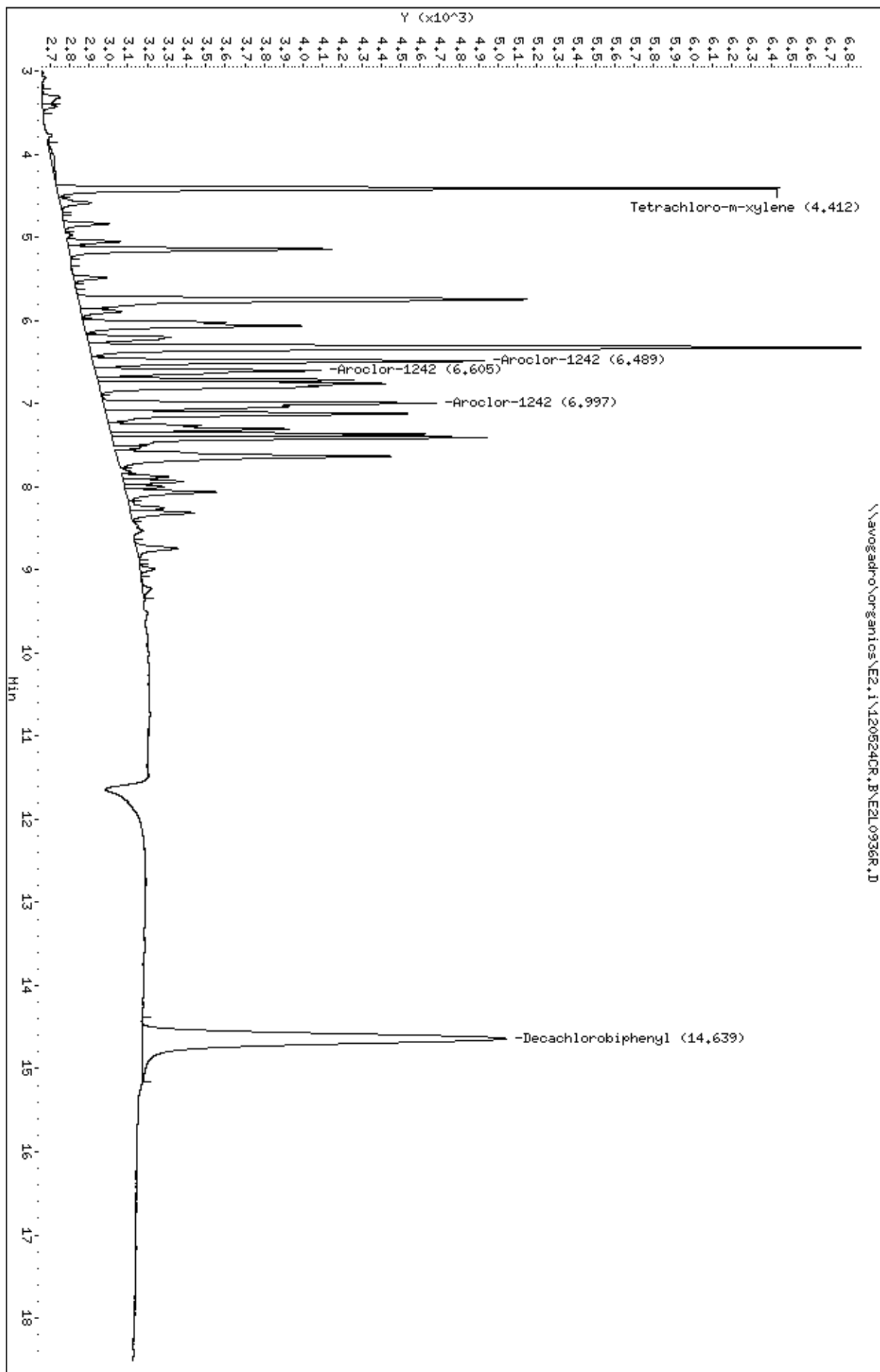
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.638	14.631	0.007	1867 0.02000	0.022		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0936R.D
 Date : 24-May-2012 21:45
 Client ID: AR12422R2
 Sample Info: AR12422R2,AR12422R2,,ar1242,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\120524CF.B\E2L0937F.D
 Report Date: 25-May-2012 15:56

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0937F.D
 Lab Smp Id: AR12423R2 Client Smp ID: AR12423R2
 Inj Date : 24-MAY-2012 22:06
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12423R2,AR12423R2,,ar1242.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 6 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.725	3.724	0.001	12050 0.02000	0.022		(a)

6 Aroclor-1242 CAS #: 53469-21-9						
4.922	4.921	0.001	2847 0.40000	0.39	80.00- 120.00	100.00(a)
5.479	5.477	0.002	4517 0.40000	0.39	134.85- 174.85	158.66
5.753	5.753	0.000	3956 0.40000	0.38	118.94- 158.94	138.95
Average of Peak Amounts =			0.38667			

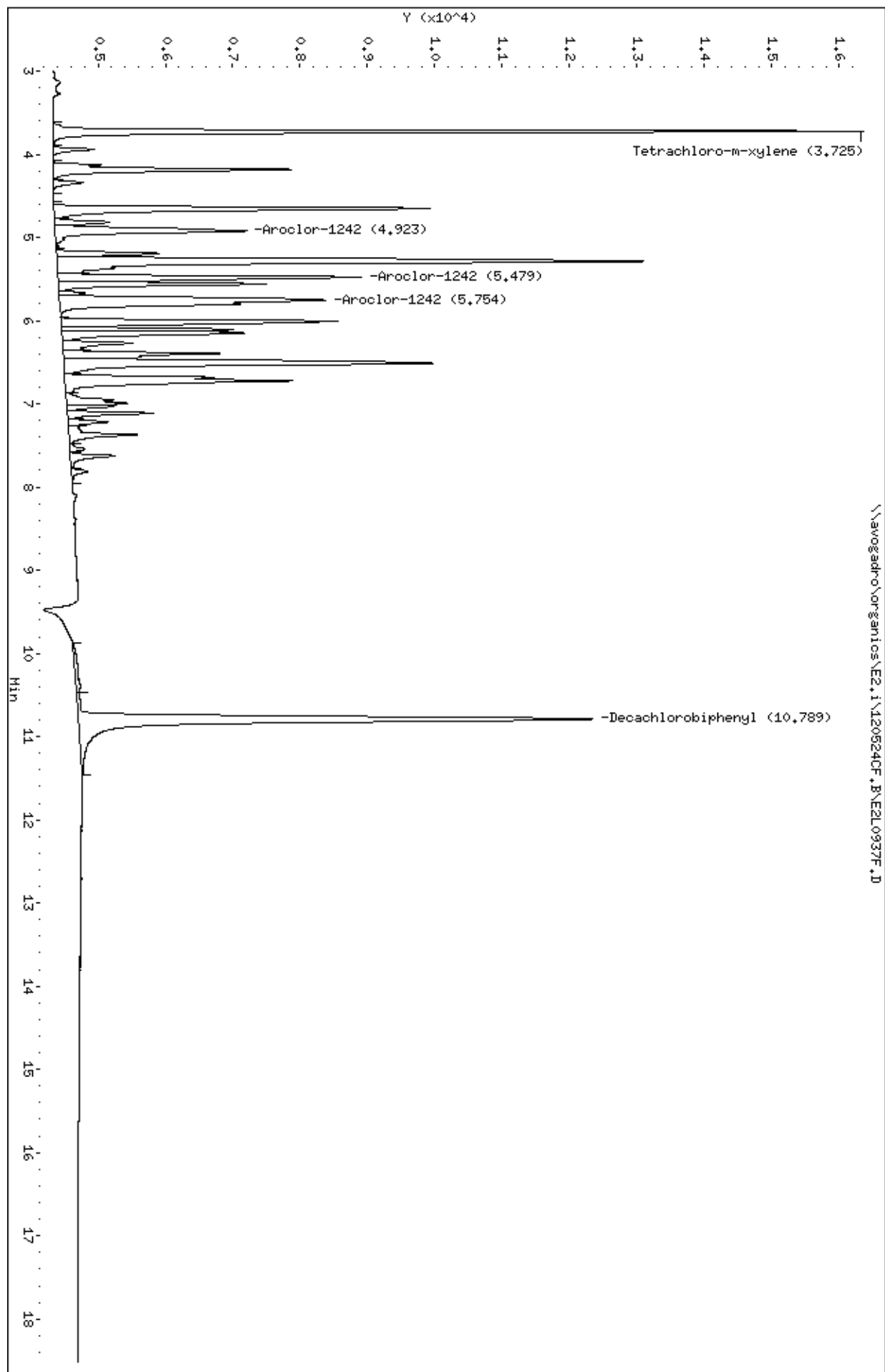
\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
10.789	10.786	0.003	422893 0.04000	0.038		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0937F.D
Date : 24-May-2012 22:06
Client ID: AR12423R2
Sample Info: AR12423R2,AR12423R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLP/Pest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0937R.D
 Lab Smp Id: AR12423R2 Client Smp ID: AR12423R2
 Inj Date : 24-MAY-2012 22:06
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12423R2,AR12423R2,,ar1242.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:04 Cal File: E2L0957R.D
 Als bottle: 6 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.410	4.409	0.001	9435 0.02000	0.038		(a)

4	Aroclor-1242		CAS #: 53469-21-9			
6.488	6.486	0.002	3817 0.40000	0.39	80.00- 120.00	100.00(a)
6.603	6.602	0.001	2250 0.40000	0.39	38.62- 78.62	58.95
6.996	6.994	0.002	3249 0.40000	0.39	66.61- 106.61	85.12
Average of Peak Amounts =			0.39000			

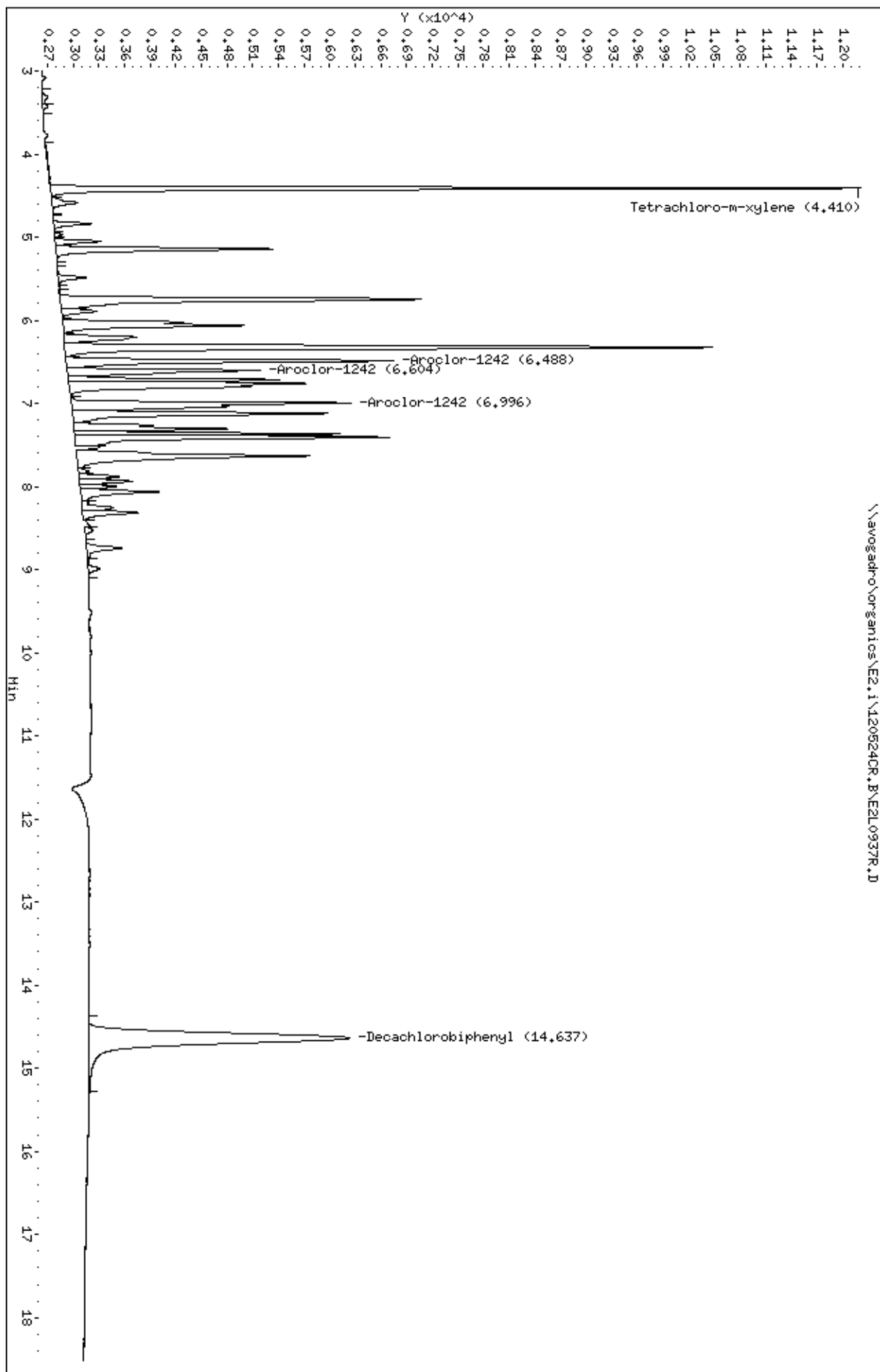
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.637	14.631	0.006	3049 0.04000	0.038		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0937R.D
Date : 24-May-2012 22:06
Client ID: AR12423R2
Sample Info: AR12423R2,AR12423R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0938F.D
 Lab Smp Id: AR12424R2 Client Smp ID: AR12424R2
 Inj Date : 24-MAY-2012 22:27
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12424R2,AR12424R2,,ar1242.sub,,
 Misc Info : 1,4,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 7 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.724	3.724	0.000	23977 0.04000	0.044		(a)

6	Aroclor-1242		CAS #: 53469-21-9			
4.921	4.921	0.000	5397 0.80000	0.74 80.00- 120.00	100.00(a)	
5.478	5.477	0.001	8506 0.80000	0.73 134.85- 174.85	157.61	
5.753	5.753	0.000	7348 0.80000	0.71 118.94- 158.94	136.15	
Average of Peak Amounts =			0.72667			

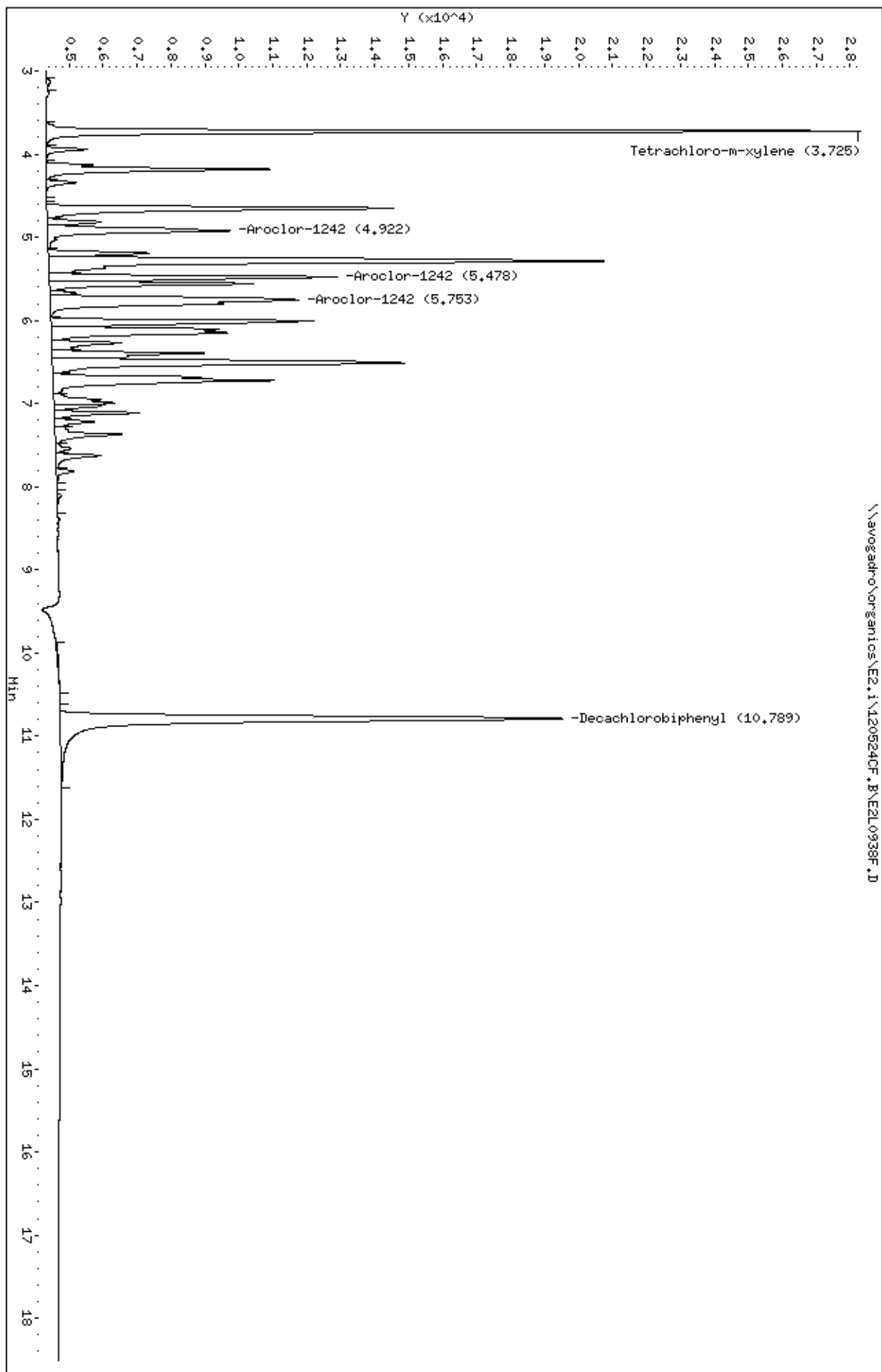
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.788	10.786	0.002	801774 0.08000	0.072		

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0938F.D
Date : 24-May-2012 22:27
Client ID: AR12424R2
Sample Info: AR12424R2,AR12424R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLPrest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0938R.D
 Lab Smp Id: AR12424R2 Client Smp ID: AR12424R2
 Inj Date : 24-MAY-2012 22:27
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12424R2,AR12424R2,,ar1242.sub,,
 Misc Info : 1,4,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:25 Cal File: E2L0958R.D
 Als bottle: 7 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.410	4.409	0.001	19288 0.04000	0.056		

4	Aroclor-1242		CAS #: 53469-21-9			
6.488	6.486	0.002	7320 0.80000	0.75	80.00- 120.00	100.00(a)
6.604	6.602	0.002	4493 0.80000	0.78	38.62- 78.62	61.38
6.995	6.994	0.001	6262 0.80000	0.75	66.61- 106.61	85.55
Average of Peak Amounts =			0.76000			

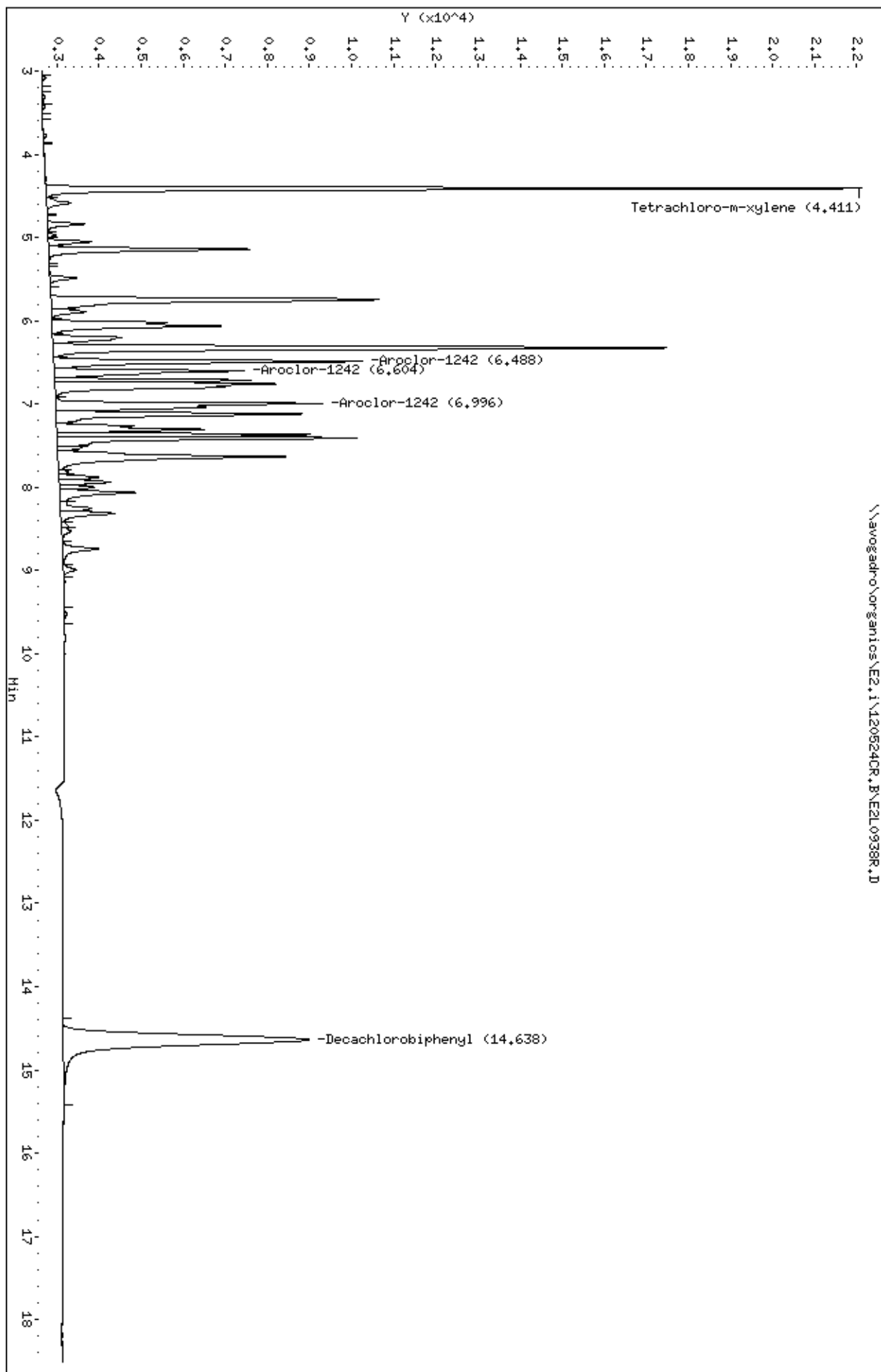
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.638	14.631	0.007	5864 0.08000	0.072		

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0938R.D
Date : 24-May-2012 22:27
Client ID: AR12424R2
Sample Info: AR12424R2,AR12424R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0939F.D
 Lab Smp Id: AR12425R2 Client Smp ID: AR12425R2
 Inj Date : 24-MAY-2012 22:48
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12425R2,AR12425R2,,ar1242.sub,,
 Misc Info : 1,5,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 8 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.724	3.724	0.000	38566	0.08000	0.070	

6	Aroclor-1242		CAS #: 53469-21-9			
4.921	4.921	0.000	10552	1.60000	1.4 80.00- 120.00	100.00
5.477	5.477	0.000	16433	1.60000	1.4 134.85- 174.85	155.73
5.753	5.753	0.000	13938	1.60000	1.4 118.94- 158.94	132.09
Average of Peak Amounts =			1.40000			

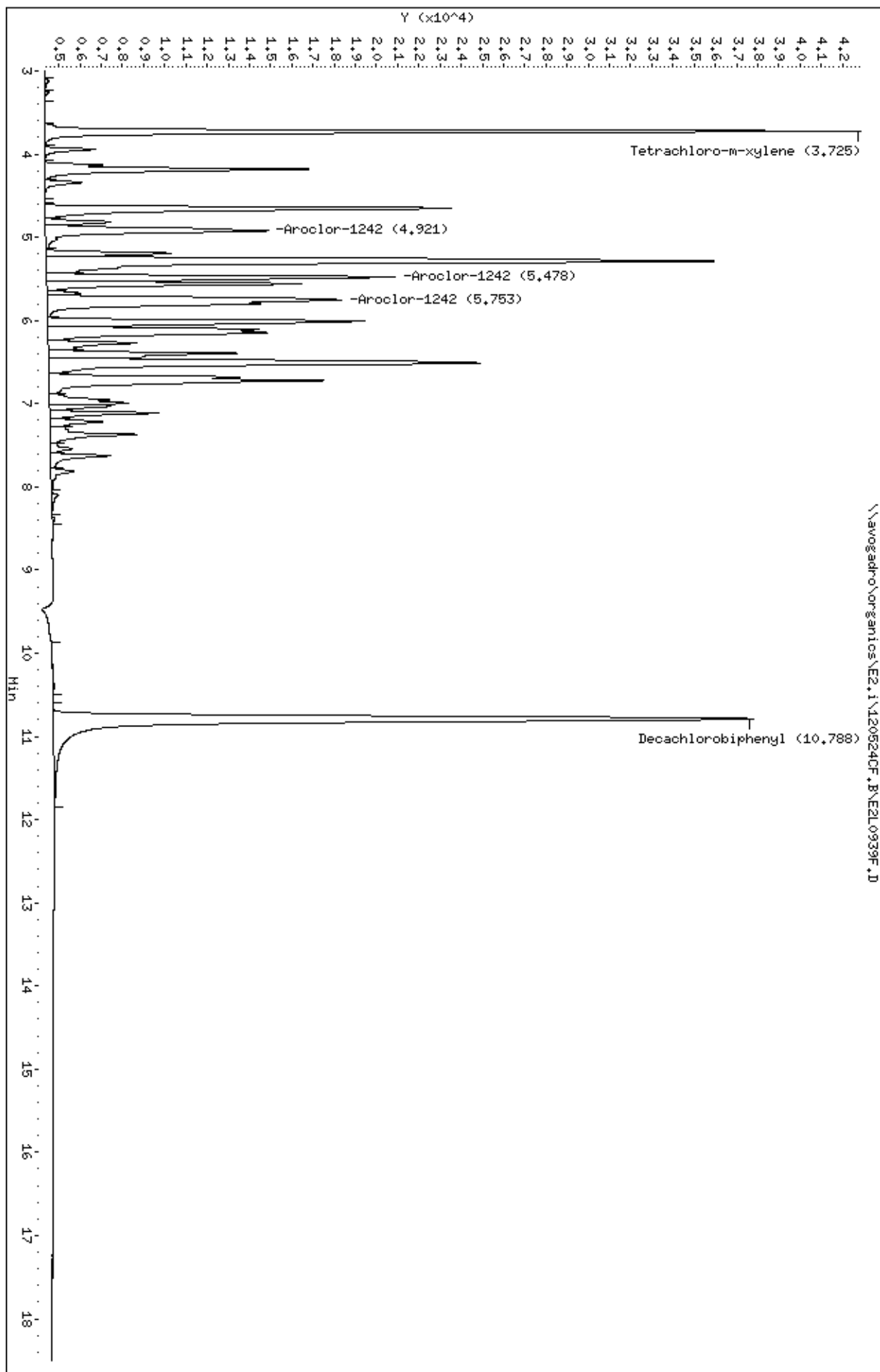
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.788	10.786	0.002	1821055	0.16000	0.16	(A)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0939F.D
 Date : 24-May-2012 22:48
 Client ID: AR12425R2
 Sample Info: AR12425R2,AR12425R2,,ar1242,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0939R.D
 Lab Smp Id: AR12425R2 Client Smp ID: AR12425R2
 Inj Date : 24-MAY-2012 22:48
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12425R2,AR12425R2,,ar1242.sub,,
 Misc Info : 1,5,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.D
 Als bottle: 8 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1242.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

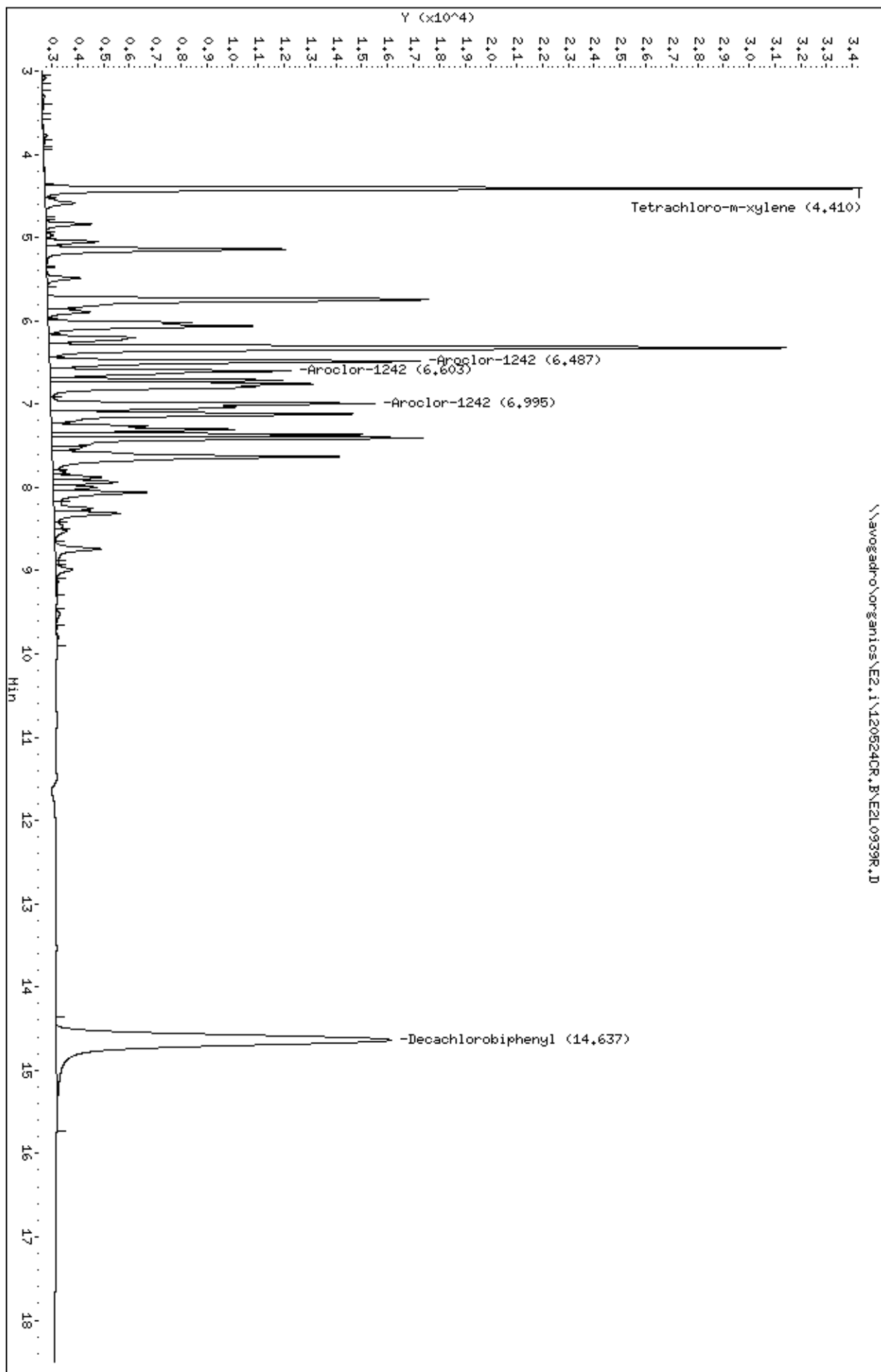
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.409	4.409	0.000	31444 0.08000	0.076		

4	Aroclor-1242		CAS #: 53469-21-9			
6.486	6.486	0.000	14315 1.60000	1.5 80.00- 120.00	100.00	
6.602	6.602	0.000	9245 1.60000	1.6 38.62- 78.62	64.58	
6.994	6.994	0.000	12488 1.60000	1.5 66.61- 106.61	87.24	
Average of Peak Amounts =			1.53333			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.637	14.631	0.006	12984 0.16000	0.15		

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0939R.D
Date : 24-May-2012 22:48
Client ID: AR12425R2
Sample Info: AR12425R2,AR12425R2,,ar1242,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0940F.D
 Lab Smp Id: AR12481R2 Client Smp ID: AR12481R2
 Inj Date : 24-MAY-2012 23:09
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12481R2,AR12481R2,,ar1248.sub,,
 Misc Info : 1,1,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 9 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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								
RT	EXP RT	DLT RT	CAL-AMT		ON-COL	TARGET RANGE		RATIO
=====	=====	=====	RESPONSE (	ng)	(ng)	=====		=====
\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
3.725	3.724	0.001	2400	0.00500	0.0044			(a)

7 Aroclor-1248					CAS #: 12672-29-6			
6.009	6.007	0.002	1899	0.10000	0.11	80.00-	120.00	100.00(a)
6.508	6.508	0.000	2674	0.10000	0.11	121.29-	161.29	140.81
6.723	6.721	0.002	1848	0.10000	0.11	79.59-	119.59	97.31
Average of Peak Amounts =					0.11000			

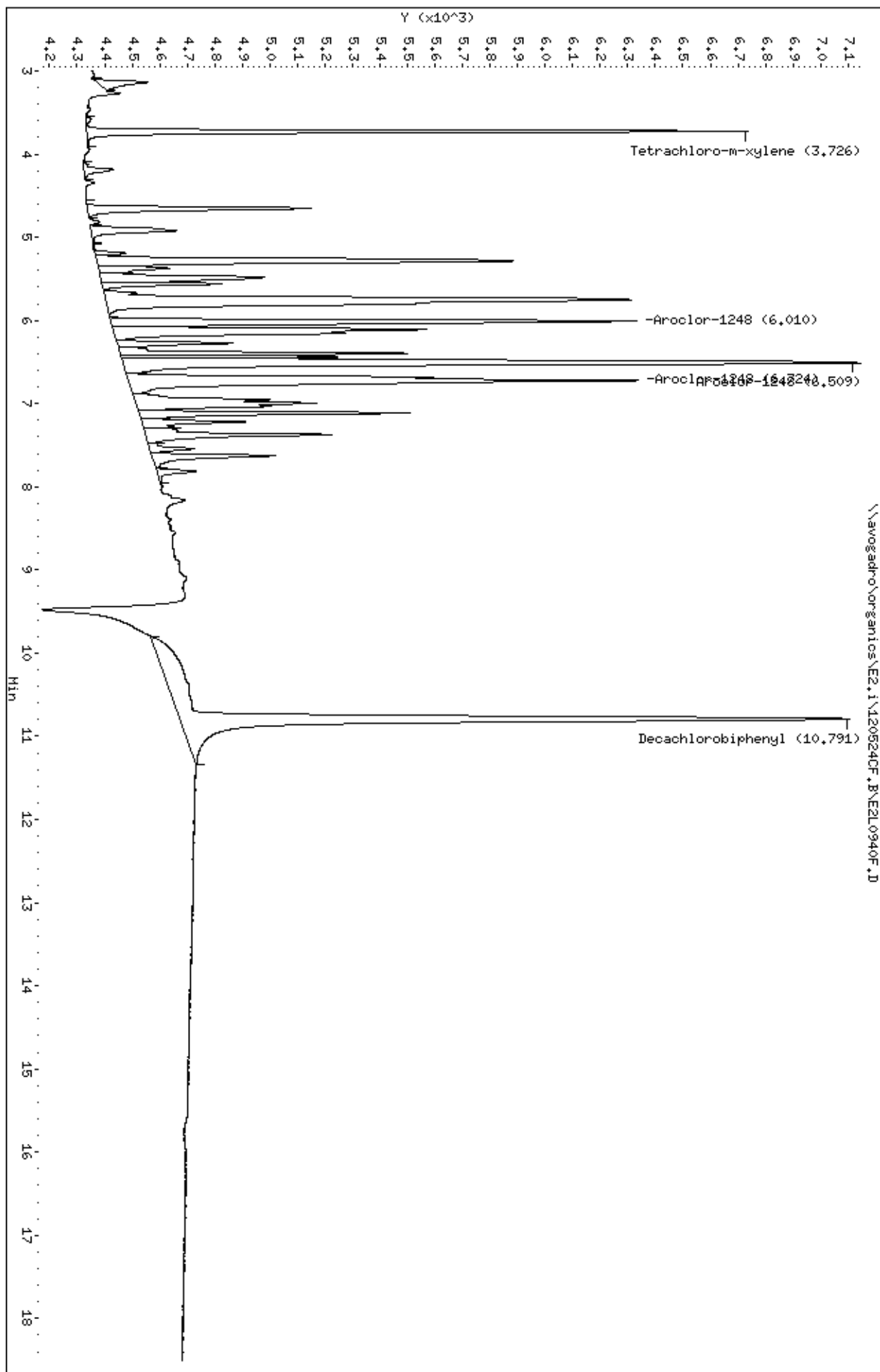
\$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
10.790	10.786	0.004	171484	0.01000	0.015			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF.B\E2L0940F.D
 Date : 24-May-2012 23:09
 Client ID: AR12481R2
 Sample Info: AR12481R2,AR12481R2,,ar1248,sub,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0940R.D
 Lab Smp Id: AR12481R2 Client Smp ID: AR12481R2
 Inj Date : 24-MAY-2012 23:09
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12481R2,AR12481R2,,ar1248.sub,,
 Misc Info : 1,1,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:02 Cal File: E2L0954R.D
 Als bottle: 9 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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							
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
=====							
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8				
4.411	4.409	0.002	1790 0.00500	0.0043	(a)		

5	Aroclor-1248		CAS #: 12672-29-6				
7.121	7.118	0.003	1292 0.10000	0.10	80.00- 120.00	100.00(a)	
7.408	7.406	0.002	1872 0.10000	0.11	120.02- 160.02	144.89	
7.635	7.632	0.003	1263 0.10000	0.10	76.86- 116.86	97.76	
Average of Peak Amounts =			0.10333				

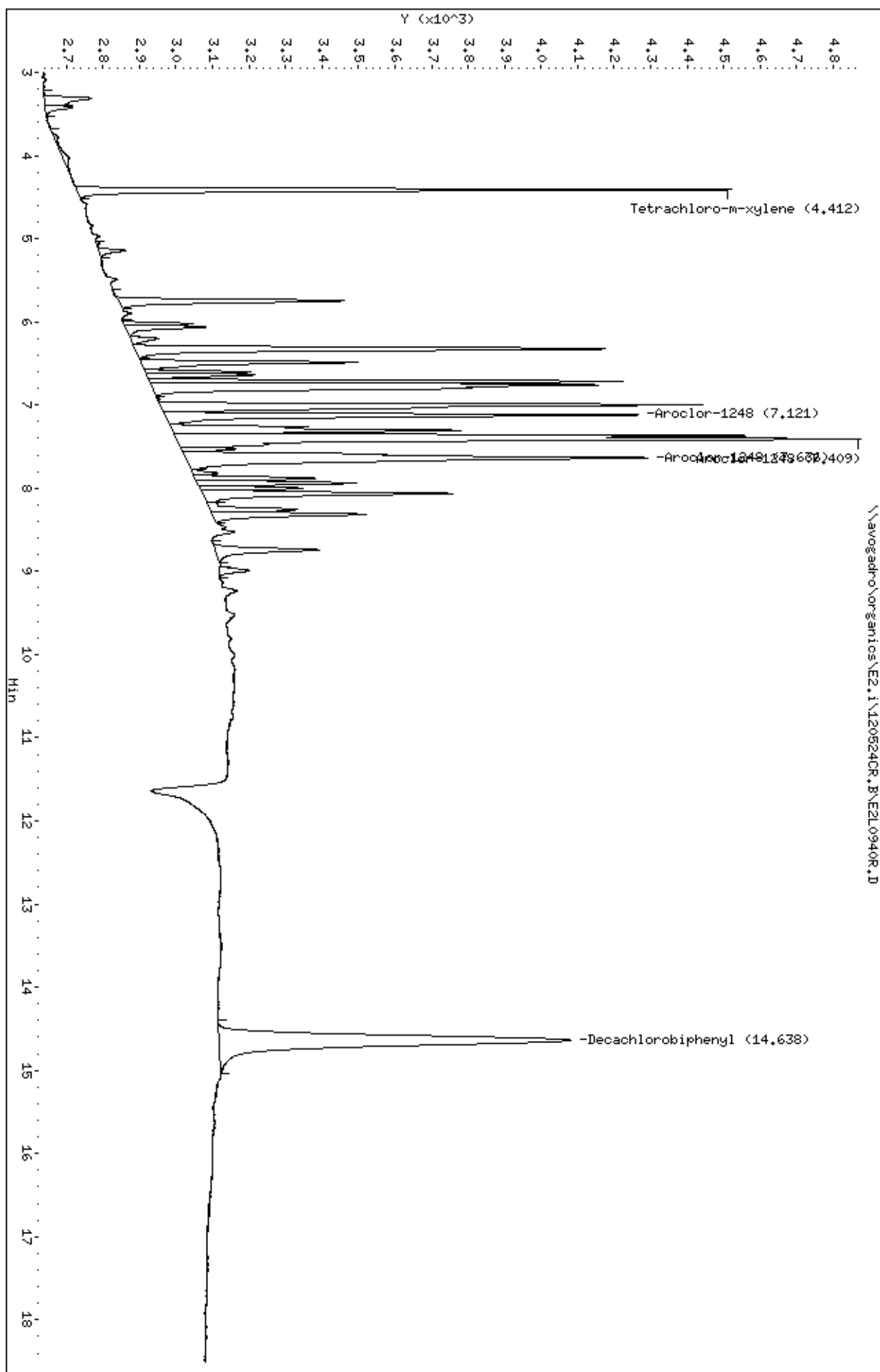
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3				
14.638	14.631	0.007	963 0.01000	0.011	(a)		

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0940R.D
 Date : 24-May-2012 23:09
 Client ID: AR12481R2
 Sample Info: AR12481R2,AR12481R2,,ar1248,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLP-PestII

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0941F.D
 Lab Smp Id: AR12486R2 Client Smp ID: AR12486R2
 Inj Date : 24-MAY-2012 23:30
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12486R2,AR12486R2,,ar1248.sub,,
 Misc Info : 1,6,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 10 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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							
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
=====							
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8				
3.725	3.724	0.001	1220 0.00000	0.0022	(a)		

7	Aroclor-1248		CAS #: 12672-29-6				
6.009	6.007	0.002	972 0.05000	0.057	80.00- 120.00	100.00(a)	
6.508	6.508	0.000	1364 0.05000	0.056	121.29- 161.29	140.33	
6.723	6.721	0.002	934 0.05000	0.055	79.59- 119.59	96.09	
Average of Peak Amounts =			0.05600				

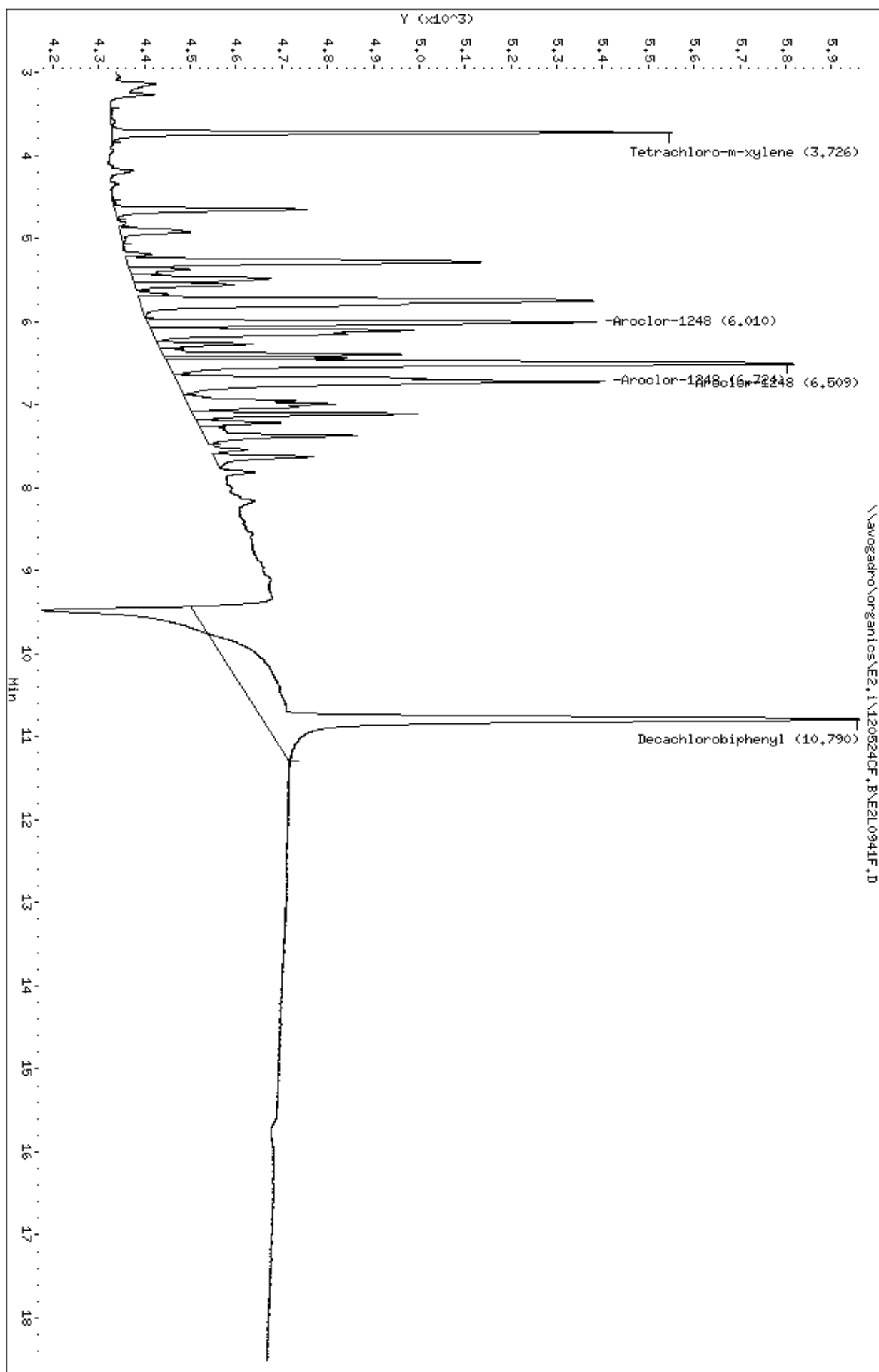
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3				
10.790	10.786	0.004	96975 0.00000	0.0087	(a)		

QC Flag Legend

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

Data File: \\avogadro\organics\E2,1\120524CF.B\E2L0941F.D
Date : 24-MAY-2012 23:30
Client ID: AR12486R2
Sample Info: AR12486R2,AR12486R2,,ar1248,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0941R.D
 Lab Smp Id: AR12486R2 Client Smp ID: AR12486R2
 Inj Date : 24-MAY-2012 23:30
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12486R2,AR12486R2,,ar1248.sub,,
 Misc Info : 1,6,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:23 Cal File: E2L0955R.D
 Als bottle: 10 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.411	4.409	0.002	895 0.00000	0.0022		(a)

5	Aroclor-1248		CAS #: 12672-29-6			
7.121	7.118	0.003	651 0.05000	0.053	80.00- 120.00	100.00(a)
7.408	7.406	0.002	956 0.05000	0.054	120.02- 160.02	146.85
7.636	7.632	0.004	627 0.05000	0.052	76.86- 116.86	96.31
Average of Peak Amounts =			0.05300			

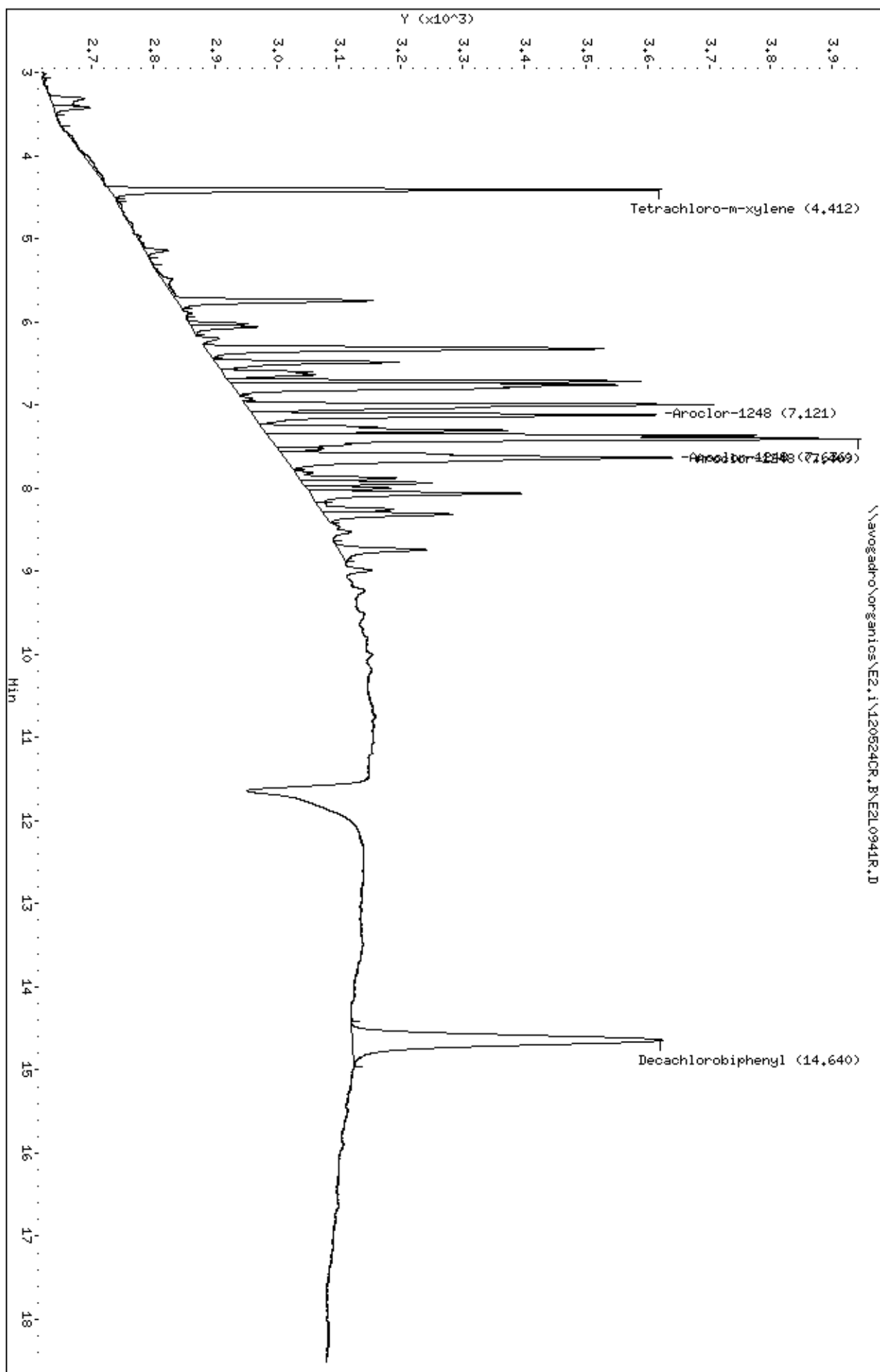
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.640	14.631	0.009	503 0.00000	0.0060		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L094LR.D
 Date : 24-May-2012 23:30
 Client ID: AR12486R2
 Sample Info: AR12486R2,AR12486R2,,ar1248,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0942F.D
 Lab Smp Id: AR12482R2 Client Smp ID: AR12482R2
 Inj Date : 24-MAY-2012 23:51
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12482R2,AR12482R2,,ar1248.sub,,
 Misc Info : 1,2,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 11 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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							
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
=====							
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8				
3.725	3.724	0.001	4796 0.01000	0.0087		(a)	

7	Aroclor-1248		CAS #: 12672-29-6				
6.008	6.007	0.001	3591 0.20000	0.21	80.00- 120.00	100.00(a)	
6.508	6.508	0.000	5114 0.20000	0.21	121.29- 161.29	142.41	
6.722	6.721	0.001	3535 0.20000	0.21	79.59- 119.59	98.44	
Average of Peak Amounts =			0.21000				

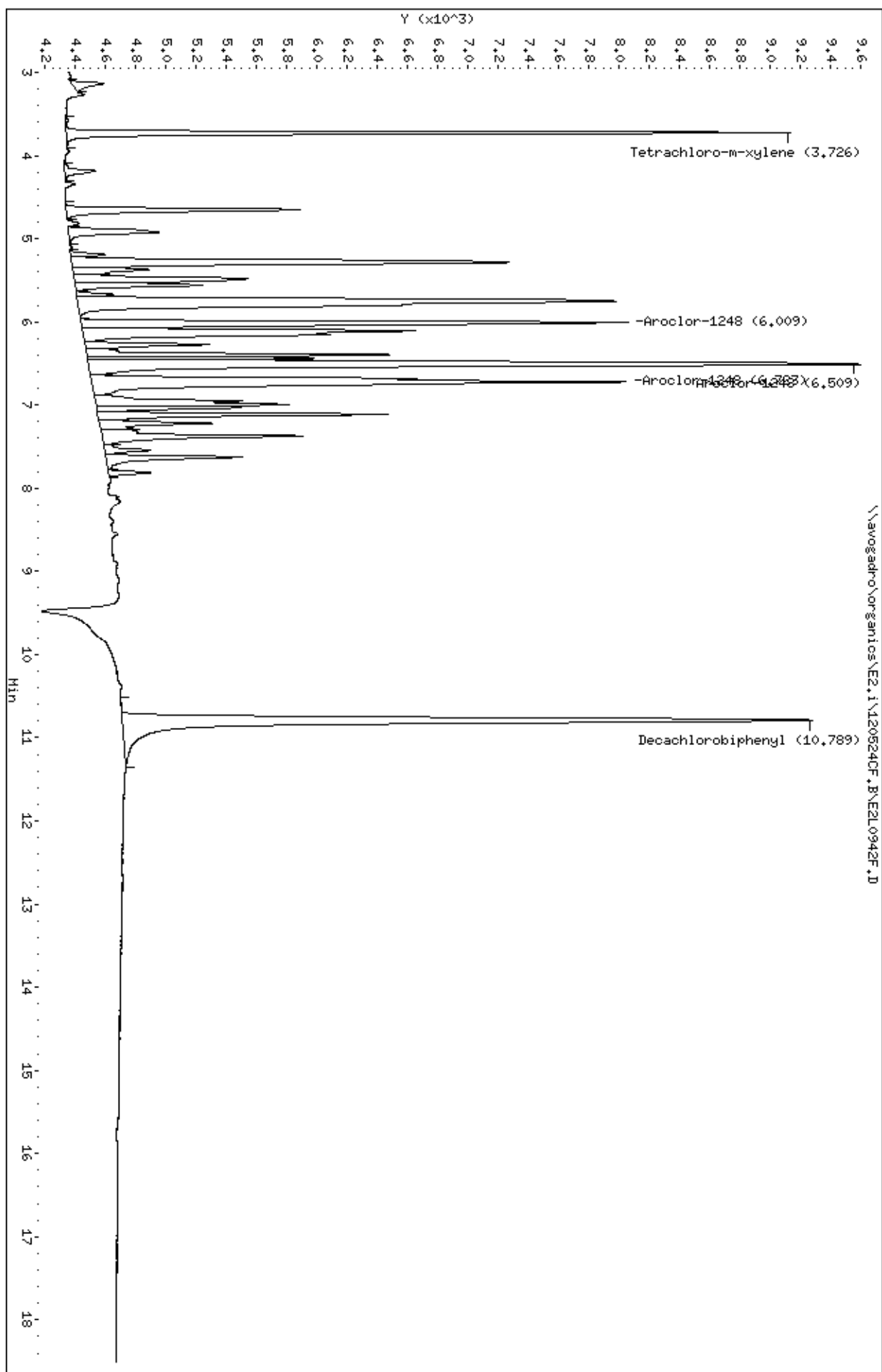
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3				
10.789	10.786	0.003	243806 0.02000	0.022		(a)	

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0942F.D
Date : 24-MAY-2012 23:51
Client ID: AR12482R2
Sample Info: AR12482R2,AR12482R2,,ar1248,sub,,
Volume Injected (uL): 1.0
Column phase: CLPrest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0942R.D
 Lab Smp Id: AR12482R2 Client Smp ID: AR12482R2
 Inj Date : 24-MAY-2012 23:51
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12482R2,AR12482R2,,ar1248.sub,,
 Misc Info : 1,2,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:43 Cal File: E2L0956R.D
 Als bottle: 11 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.411	4.409	0.002	3662 0.01000	0.0088		(a)

5	Aroclor-1248		CAS #: 12672-29-6			
7.120	7.118	0.002	2524 0.20000	0.20	80.00- 120.00	100.00(a)
7.407	7.406	0.001	3597 0.20000	0.20	120.02- 160.02	142.51
7.634	7.632	0.002	2479 0.20000	0.20	76.86- 116.86	98.22
Average of Peak Amounts =			0.20000			

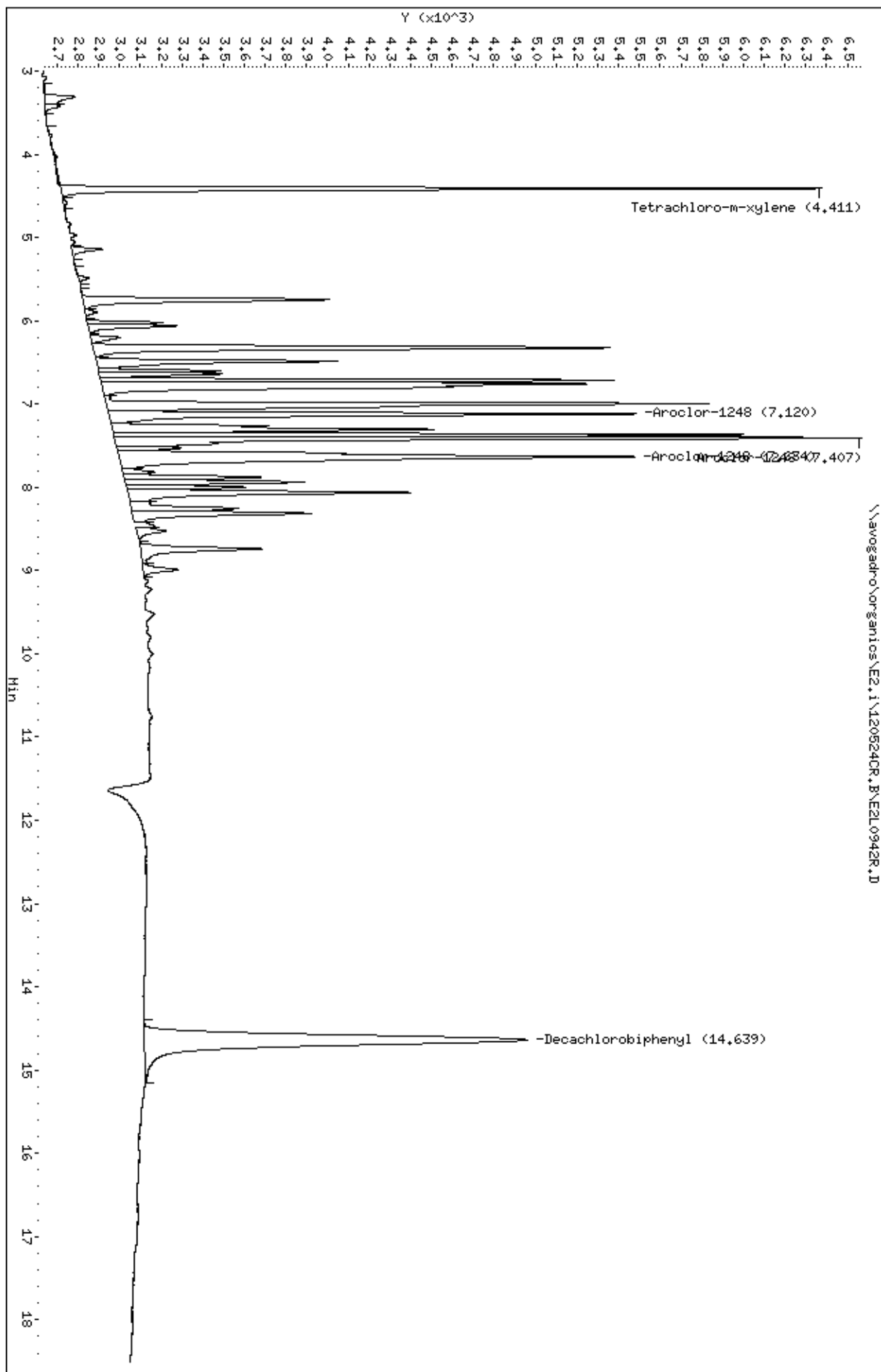
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.638	14.631	0.007	1839 0.02000	0.022		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0942R.D
 Date : 24-May-2012 23:51
 Client ID: AR12482R2
 Sample Info: AR12482R2,AR12482R2,,ar1248,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0943F.D
 Lab Smp Id: AR12483R2 Client Smp ID: AR12483R2
 Inj Date : 25-MAY-2012 00:12
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12483R2,AR12483R2,,ar1248.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 12 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.725	3.724	0.001	11789 0.02000	0.022		(a)

7	Aroclor-1248		CAS #: 12672-29-6			
6.008	6.007	0.001	6520 0.40000	0.38	80.00- 120.00	100.00(a)
6.508	6.508	0.000	9347 0.40000	0.38	121.29- 161.29	143.36
6.722	6.721	0.001	6536 0.40000	0.38	79.59- 119.59	100.25
Average of Peak Amounts =			0.38000			

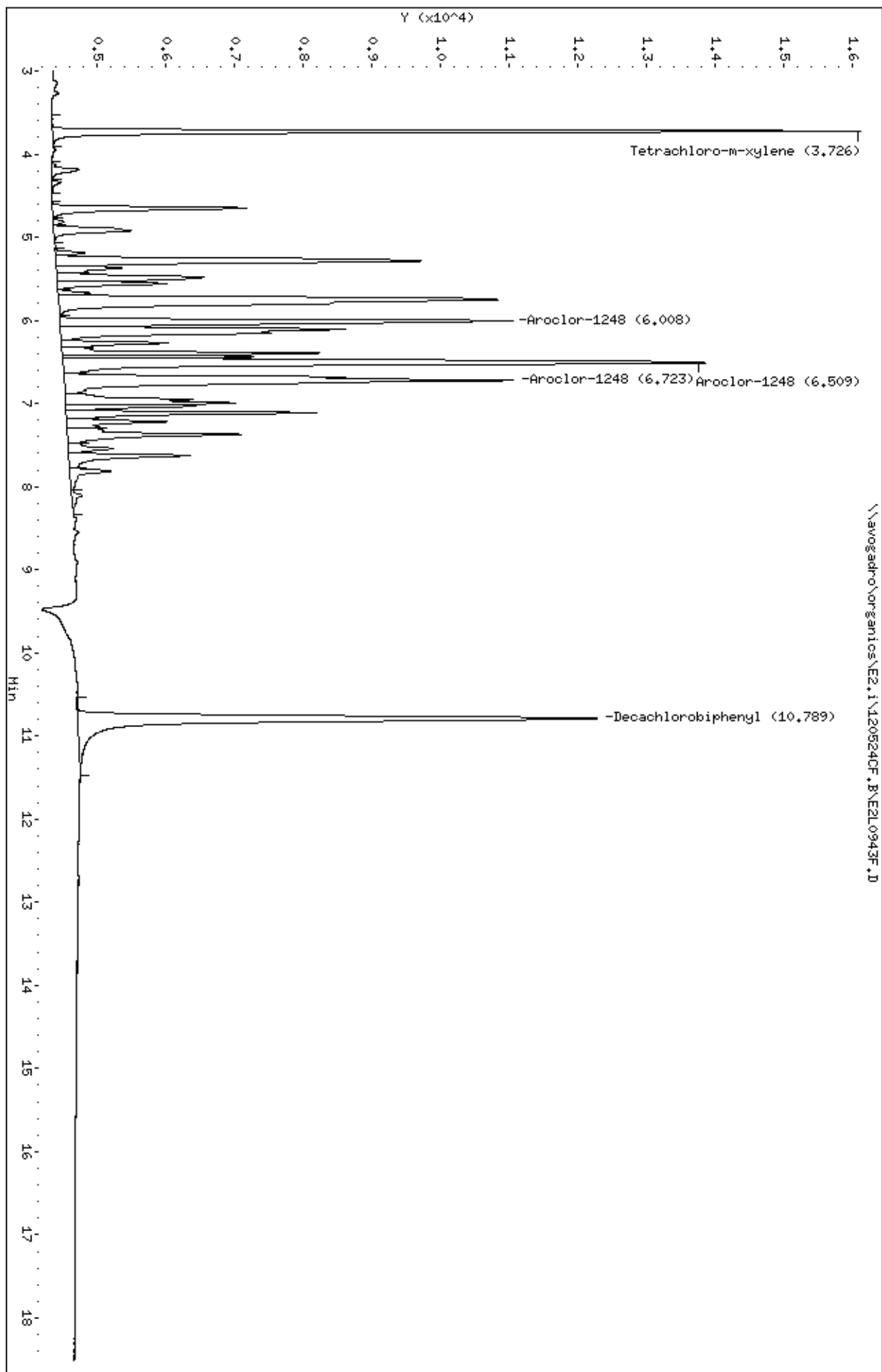
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.789	10.786	0.003	405746 0.04000	0.036		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0943F.D
Date : 25-MAY-2012 00:12
Client ID: AR12483R2
Sample Info: AR12483R2,AR12483R2,,ar1248,sub,,
Volume Injected (uL): 1.0
Column phase: CLPrest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0943R.D
 Lab Smp Id: AR12483R2 Client Smp ID: AR12483R2
 Inj Date : 25-MAY-2012 00:12
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12483R2,AR12483R2,,ar1248.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:04 Cal File: E2L0957R.D
 Als bottle: 12 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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			
4.410	4.409	0.001	9283	0.02000	0.022			(a)

5 Aroclor-1248					CAS #: 12672-29-6			
7.120	7.118	0.002	4730	0.40000	0.38	80.00-	120.00	100.00(a)
7.407	7.406	0.001	6668	0.40000	0.38	120.02-	160.02	140.97
7.634	7.632	0.002	4674	0.40000	0.38	76.86-	116.86	98.82
Average of Peak Amounts =					0.38000			

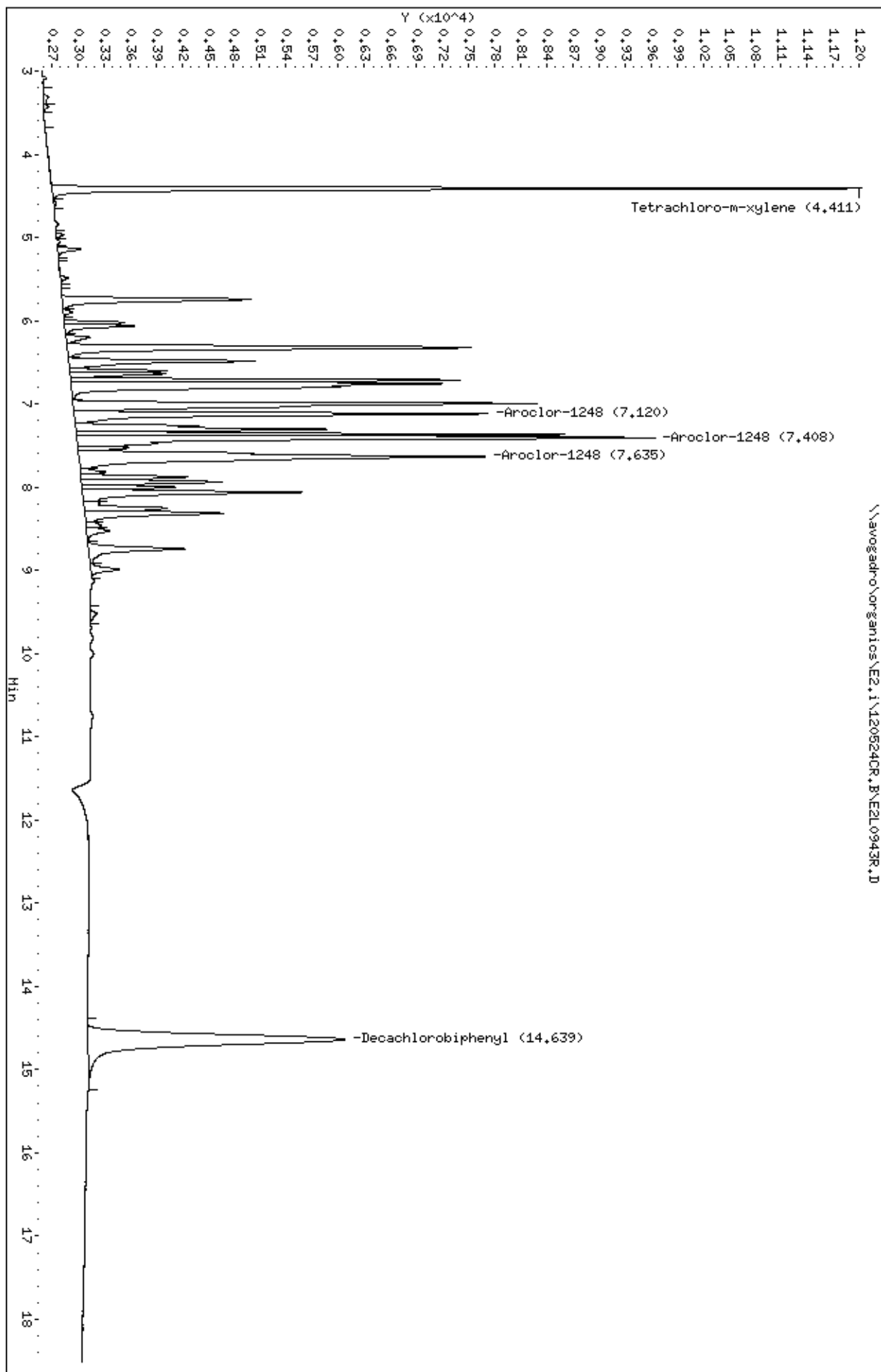
\$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
14.638	14.631	0.007	2968	0.04000	0.036			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0943R.D
 Date : 25-May-2012 00:12
 Client ID: AR12483R2
 Sample Info: AR12483R2,AR12483R2,,ar1248,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0944F.D
 Lab Smp Id: AR12484R2 Client Smp ID: AR12484R2
 Inj Date : 25-MAY-2012 00:32
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12484R2,AR12484R2,,ar1248.sub,,
 Misc Info : 1,4,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 13 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.725	3.724	0.001	24461 0.04000	0.045		(a)

7	Aroclor-1248		CAS #: 12672-29-6			
6.008	6.007	0.001	12694 0.80000	0.74	80.00- 120.00	100.00(a)
6.509	6.508	0.001	18333 0.80000	0.75	121.29- 161.29	144.42
6.722	6.721	0.001	13019 0.80000	0.76	79.59- 119.59	102.56
Average of Peak Amounts =			0.75000			

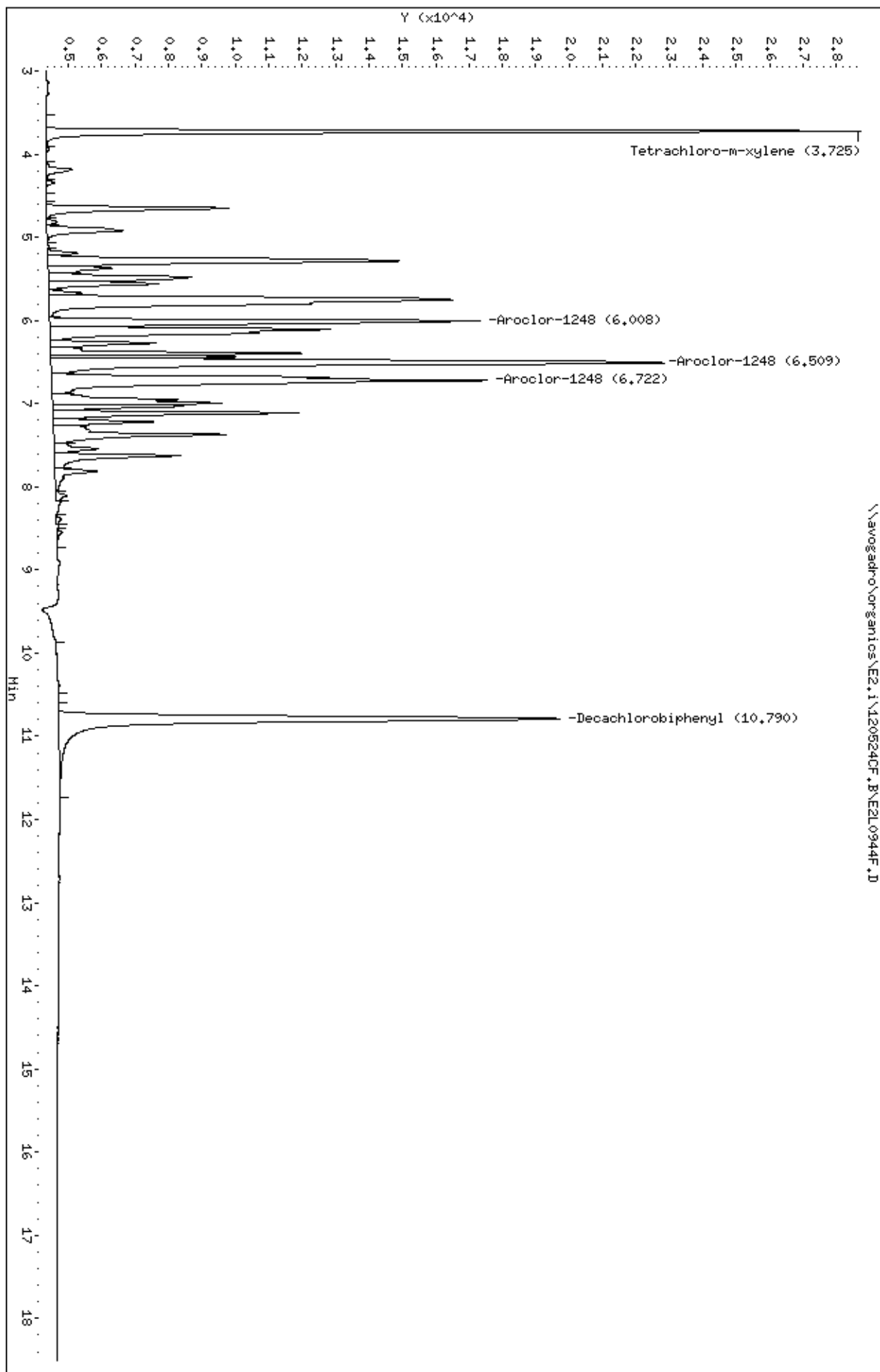
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.789	10.786	0.003	824587 0.08000	0.074		

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0944F.D
Date : 25-MAY-2012 00:32
Client ID: AR12484R2
Sample Info: AR12484R2,AR12484R2,,ar1248,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0944R.D
 Lab Smp Id: AR12484R2 Client Smp ID: AR12484R2
 Inj Date : 25-MAY-2012 00:32
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12484R2,AR12484R2,,ar1248.sub,,
 Misc Info : 1,4,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:25 Cal File: E2L0958R.D
 Als bottle: 13 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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			
4.410	4.409	0.001	19779	0.04000	0.048			(a)

5 Aroclor-1248					CAS #: 12672-29-6			
7.120	7.118	0.002	9544	0.80000	0.78	80.00-	120.00	100.00(a)
7.407	7.406	0.001	13372	0.80000	0.76	120.02-	160.02	140.11
7.634	7.632	0.002	9562	0.80000	0.79	76.86-	116.86	100.19
Average of Peak Amounts =					0.77667			

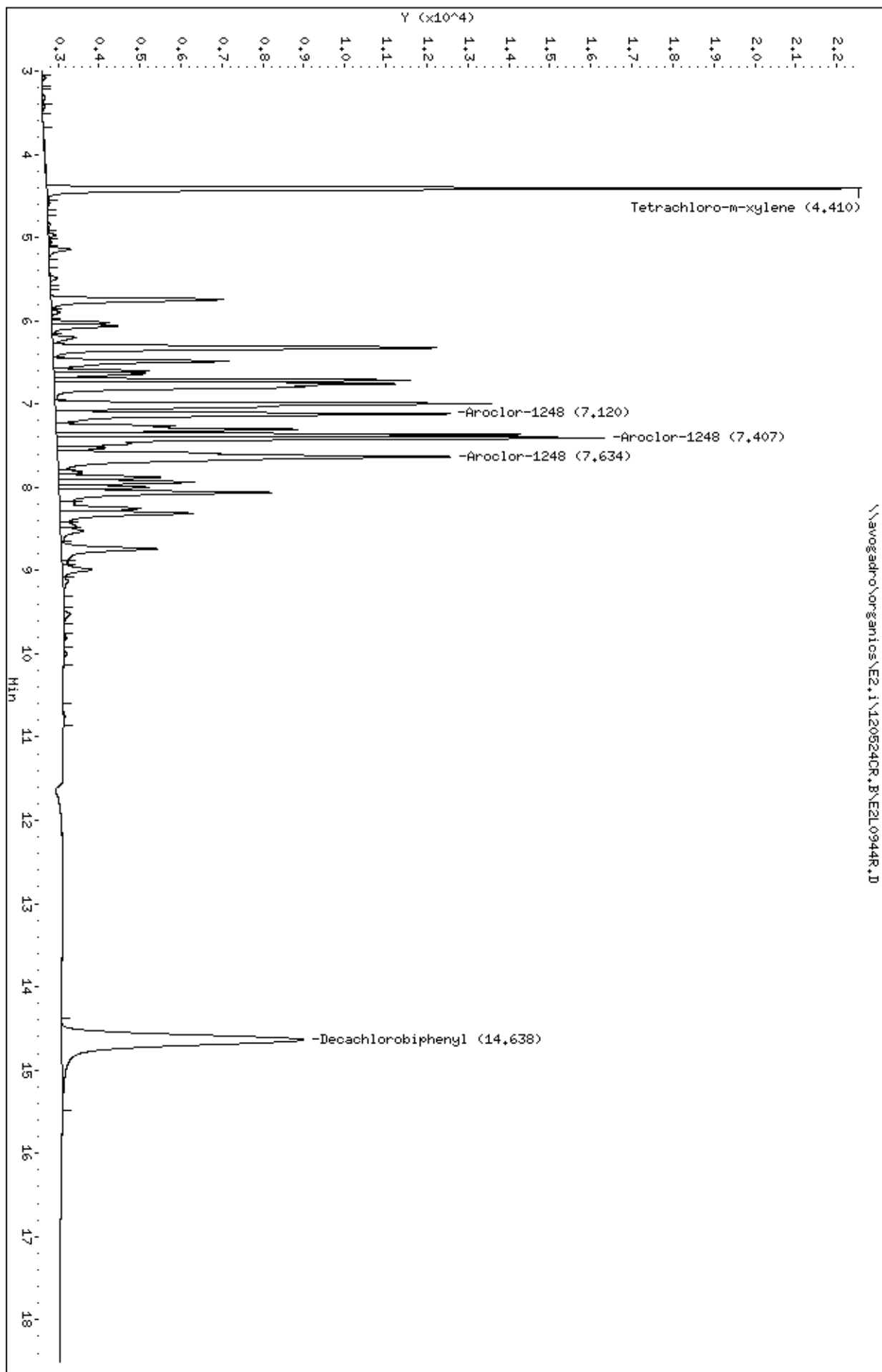
\$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
14.637	14.631	0.006	5892	0.08000	0.071			

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0944R.D
Date : 25-May-2012 00:32
Client ID: AR12484R2
Sample Info: AR12484R2,AR12484R2,,ar1248,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0945F.D
 Lab Smp Id: AR12485R2 Client Smp ID: AR12485R2
 Inj Date : 25-MAY-2012 00:53
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12485R2,AR12485R2,,ar1248.sub,,
 Misc Info : 1,5,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 14 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.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

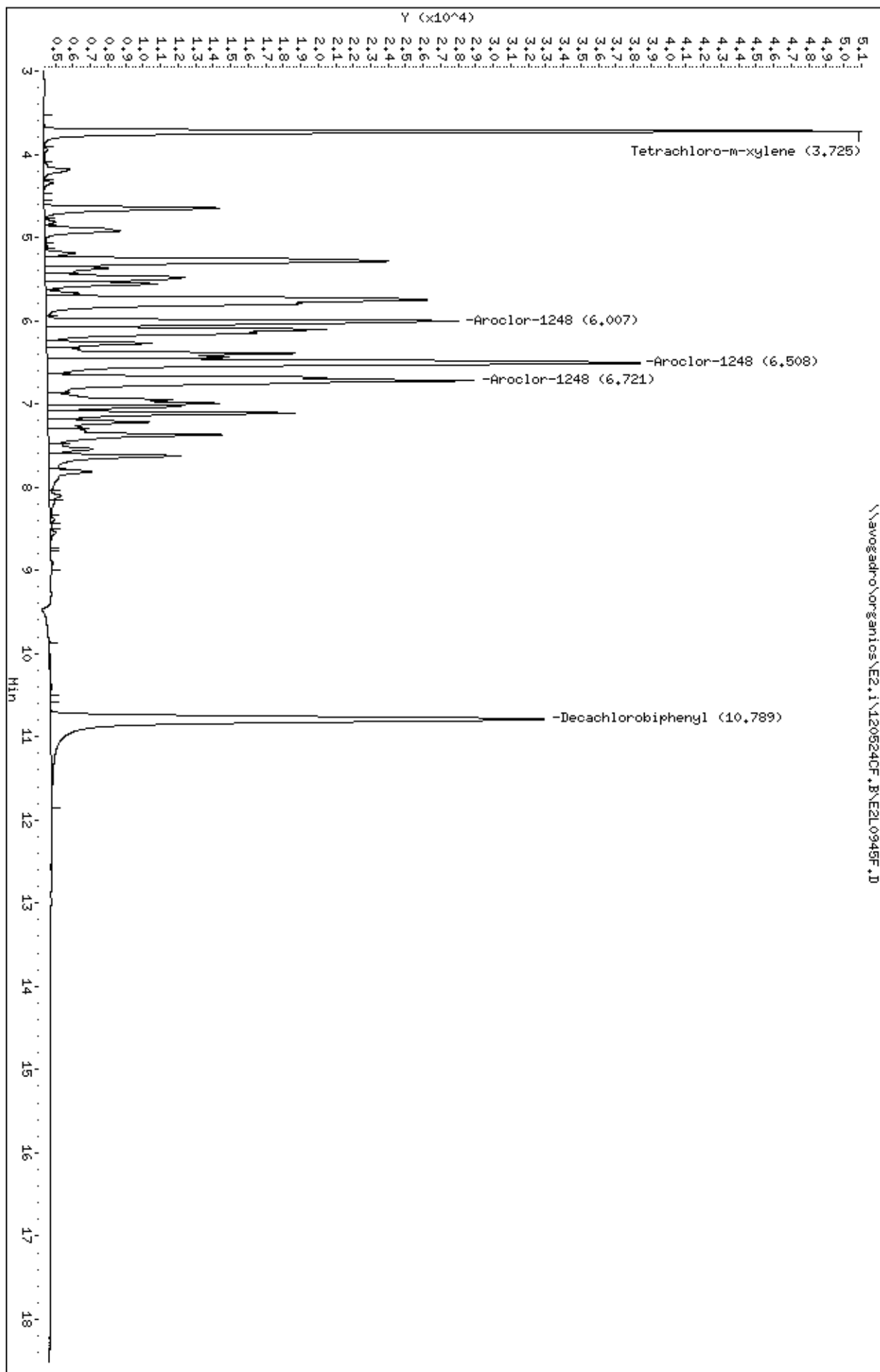
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.724	3.724	0.000	46713 0.08000	0.085		

7	Aroclor-1248		CAS #: 12672-29-6			
6.007	6.007	0.000	23141 1.60000	1.3 80.00- 120.00	100.00	
6.508	6.508	0.000	33901 1.60000	1.4 121.29- 161.29	146.50	
6.721	6.721	0.000	24260 1.60000	1.4 79.59- 119.59	104.84	
Average of Peak Amounts =			1.36667			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.789	10.786	0.003	1576325 0.16000	0.14		

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0945F.D
 Date : 25-MAY-2012 00:53
 Client ID: AR12485R2
 Sample Info: AR12485R2,AR12485R2,,ar1248,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0945R.D
 Lab Smp Id: AR12485R2 Client Smp ID: AR12485R2
 Inj Date : 25-MAY-2012 00:53
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12485R2,AR12485R2,,ar1248.sub,,
 Misc Info : 1,5,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.D
 Als bottle: 14 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1248.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

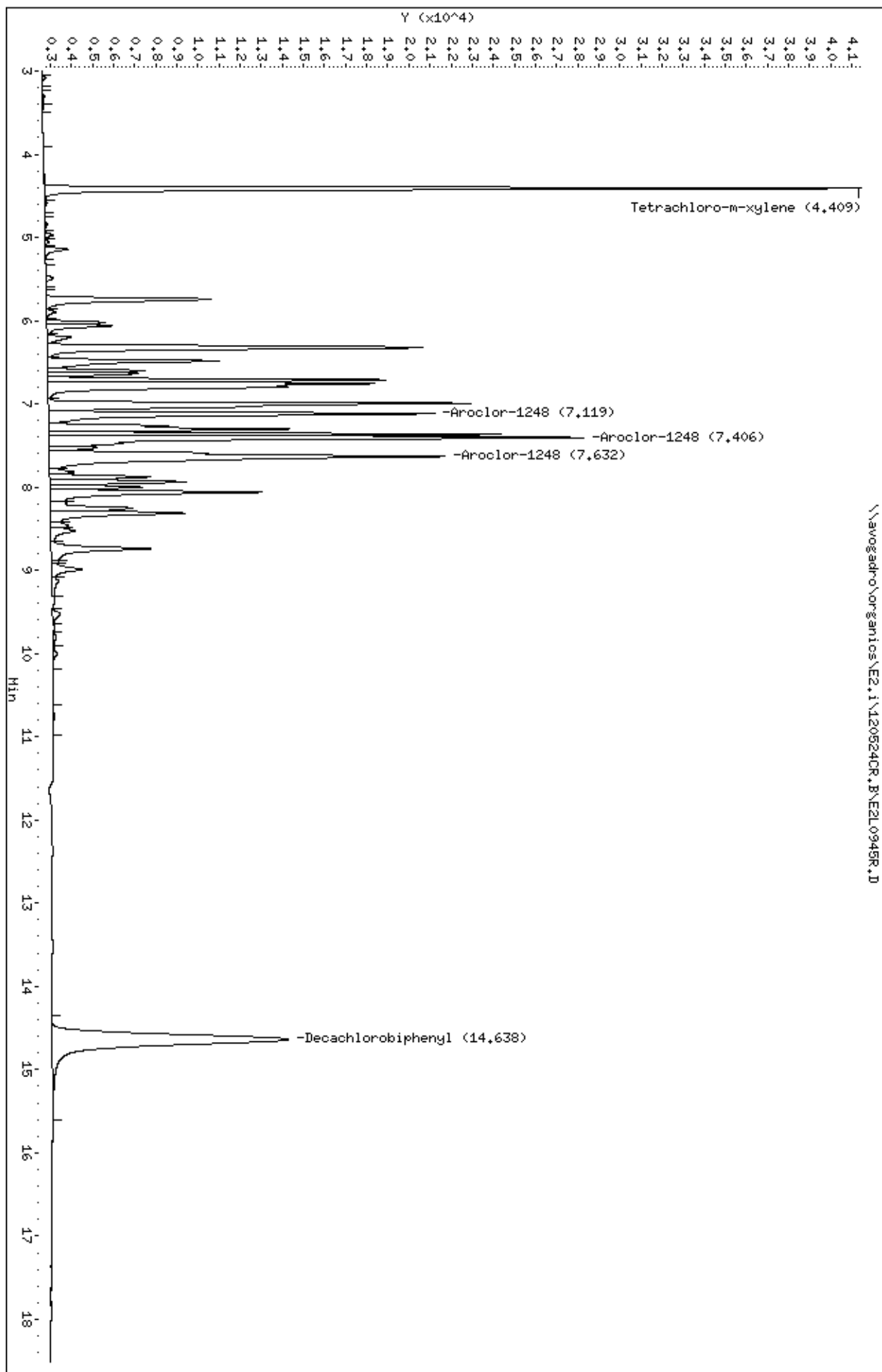
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
4.409	4.409	0.000	38433 0.08000	0.089		

5 Aroclor-1248 CAS #: 12672-29-6						
7.118	7.118	0.000	18269 1.60000	1.5 80.00- 120.00	100.00	
7.406	7.406	0.000	25360 1.60000	1.4 120.02- 160.02	138.81	
7.632	7.632	0.000	18763 1.60000	1.5 76.86- 116.86	102.70	
Average of Peak Amounts =			1.46667			

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
14.638	14.631	0.007	11218 0.16000	0.14		

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0945R.D
Date : 25-MAY-2012 00:53
Client ID: AR12485R2
Sample Info: AR12485R2,AR12485R2,,ar1248,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0946F.D
 Lab Smp Id: AR12541R2 Client Smp ID: AR12541R2
 Inj Date : 25-MAY-2012 01:14
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12541R2,AR12541R2,,ar1254.sub,,
 Misc Info : 1,1,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 15 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

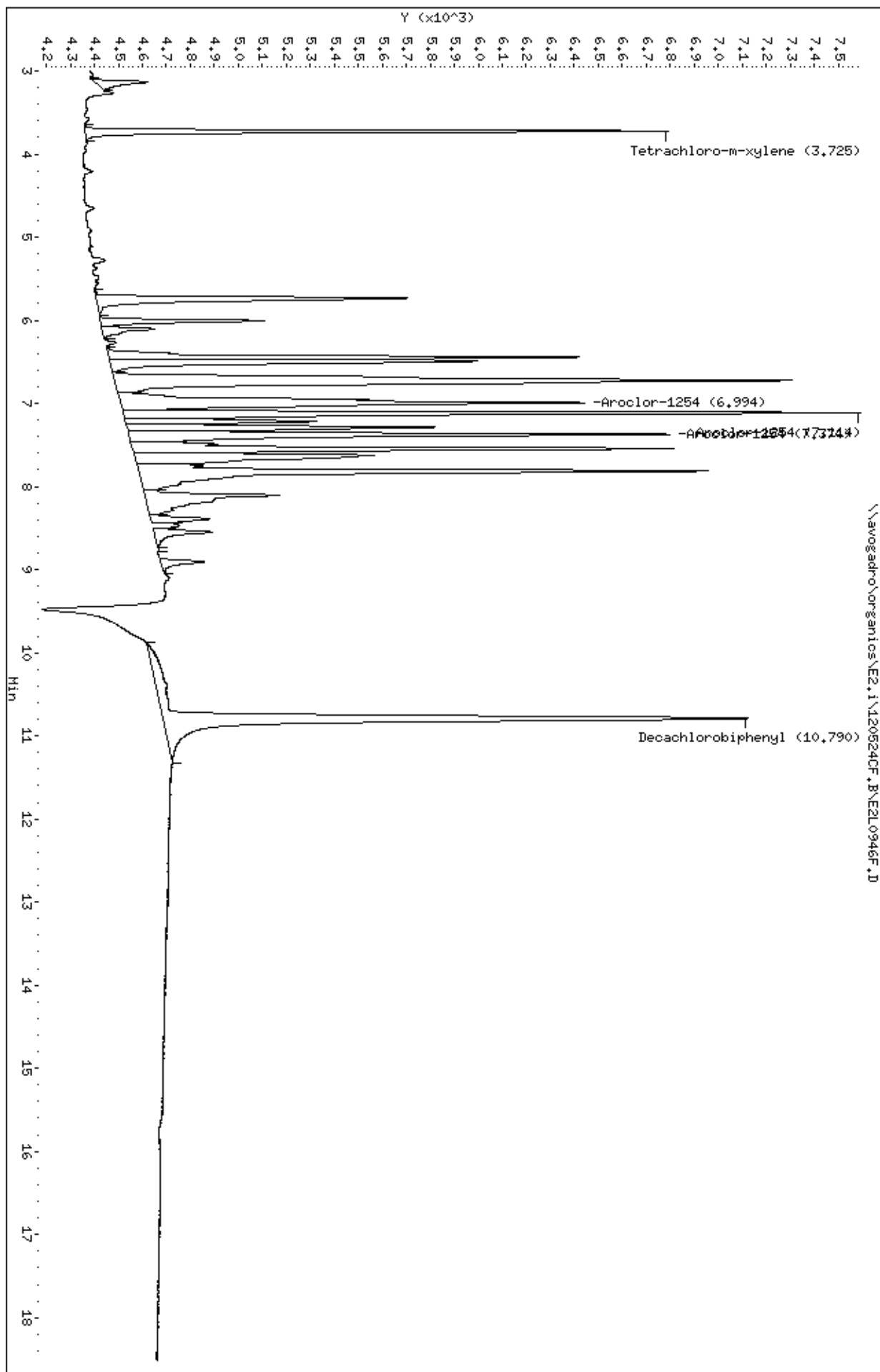
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.725	3.724	0.001	2430 0.00500	0.0044		(a)
\$ 11					CAS #: 2051-24-3	
10.790	10.786	0.004	150312 0.01000	0.013		(a)
8					CAS #: 11097-69-1	
6.993	6.991	0.002	1924 0.10000	0.11	80.00- 120.00	100.00(a)
7.113	7.110	0.003	3034 0.10000	0.11	137.57- 177.57	157.69
7.373	7.370	0.003	2229 0.10000	0.11	93.43- 133.43	115.85
Average of Peak Amounts =			0.11000			

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF.B\E2L0946F.D
 Date : 25-MAY-2012 01:14
 Client ID: AR12541R2
 Sample Info: AR12541R2,AR12541R2,,ar1254,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0946R.D
 Lab Smp Id: AR12541R2 Client Smp ID: AR12541R2
 Inj Date : 25-MAY-2012 01:14
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12541R2,AR12541R2,,ar1254.sub,,
 Misc Info : 1,1,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:02 Cal File: E2L0954R.D
 Als bottle: 15 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

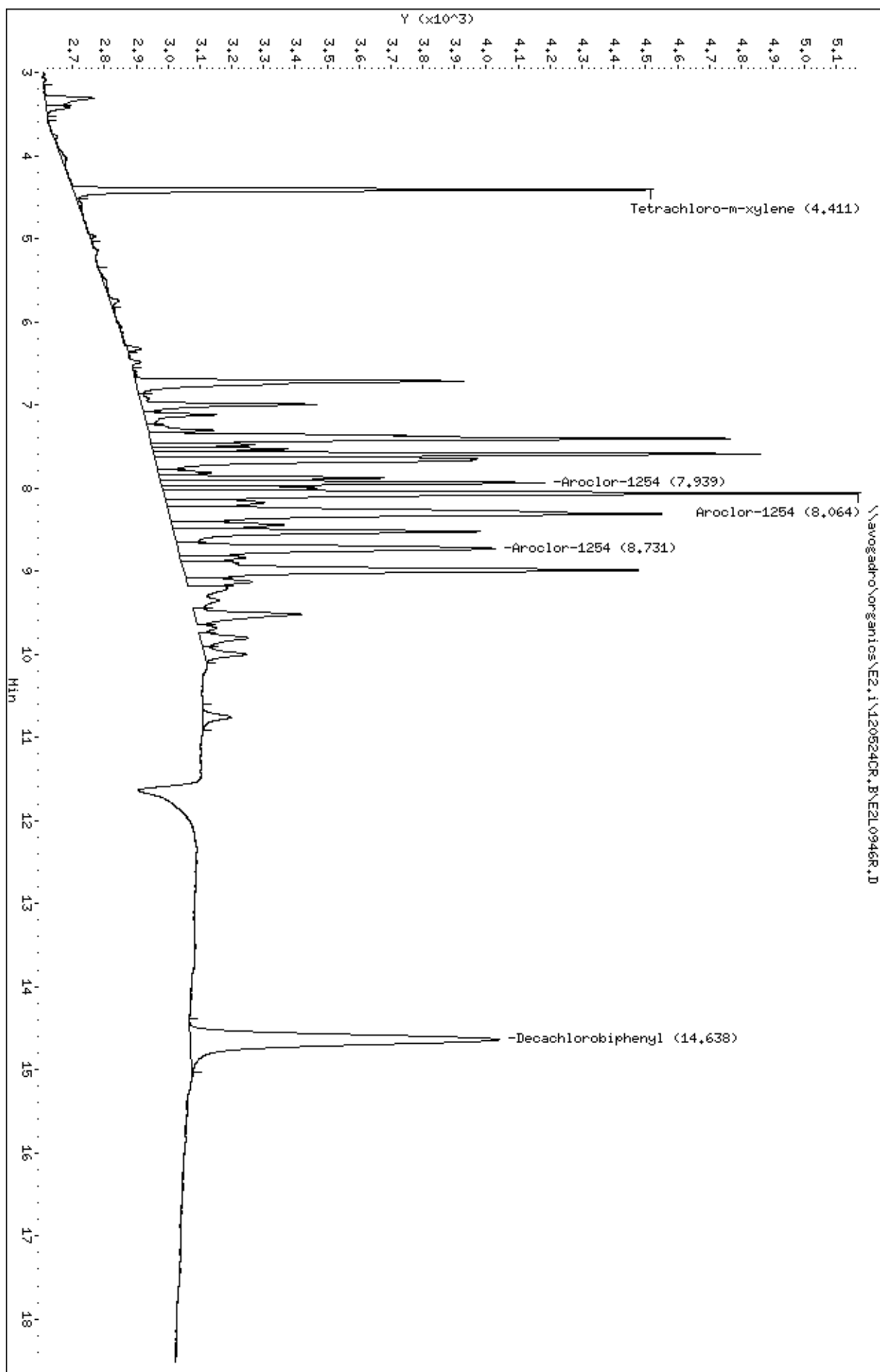
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
4.410	4.409	0.001	1821 0.00500	0.0042		(a)
\$ 11					CAS #: 2051-24-3	
14.638	14.631	0.007	968 0.01000	0.012		(a)
7					CAS #: 11097-69-1	
7.939	7.936	0.003	1204 0.10000	0.11	80.00- 120.00	100.00(a)
8.063	8.060	0.003	2182 0.10000	0.11	160.94- 200.94	181.23
8.730	8.729	0.001	998 0.10000	0.11	61.10- 101.10	82.89
Average of Peak Amounts =			0.11000			

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0946R.D
Date : 25-May-2012 01:14
Client ID: AR12541R2
Sample Info: AR12541R2,AR12541R2,,ar1254,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0947F.D
 Lab Smp Id: AR12546R2 Client Smp ID: AR12546R2
 Inj Date : 25-MAY-2012 01:35
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12546R2,AR12546R2,,ar1254.sub,,
 Misc Info : 1,6,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 16 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.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

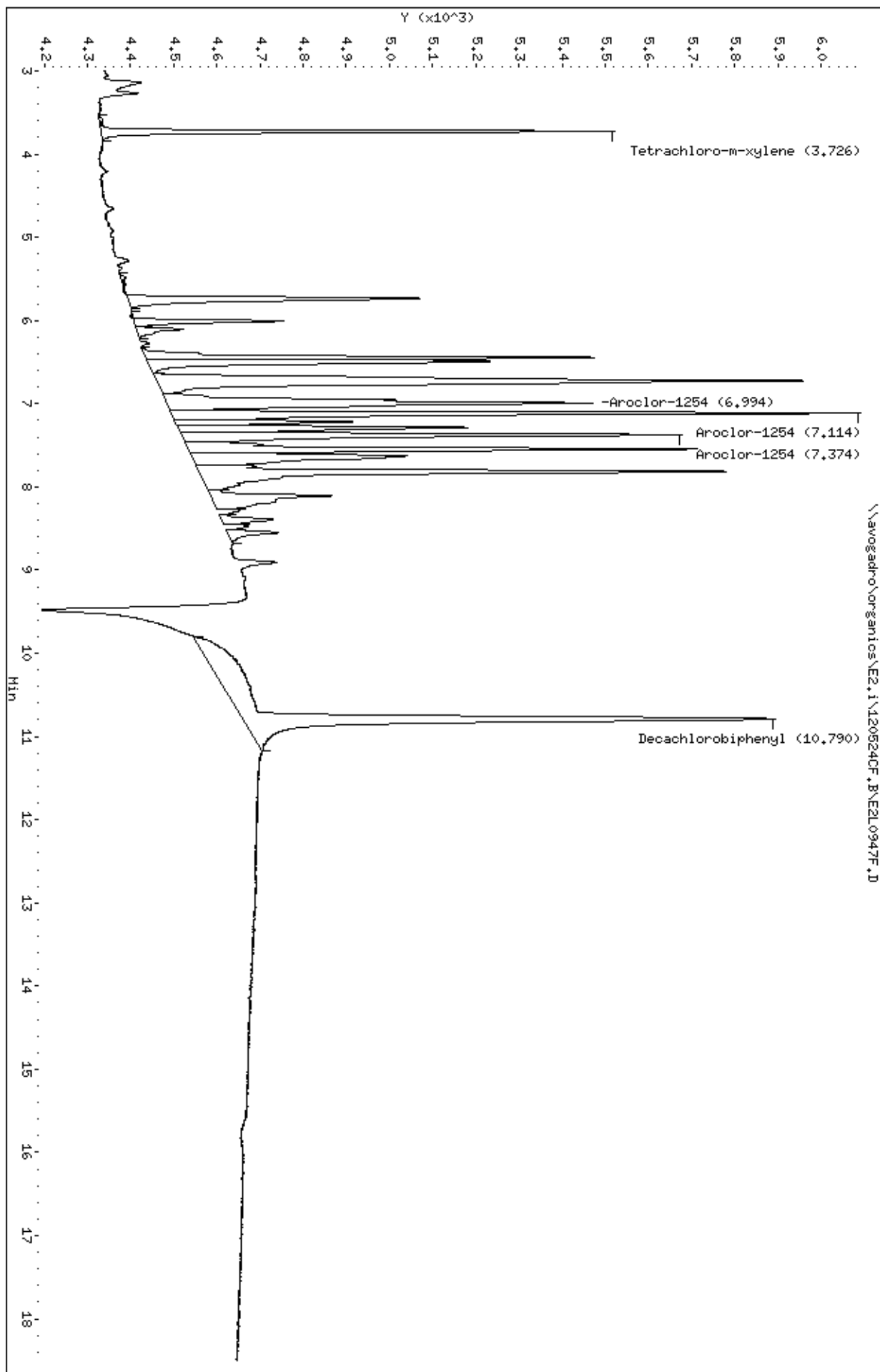
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.725	3.724	0.001	1192 0.00000	0.0022		(a)
\$ 11					CAS #: 2051-24-3	
10.789	10.786	0.003	97144 0.00000	0.0087		(a)
8					CAS #: 11097-69-1	
6.993	6.991	0.002	980 0.05000	0.054	80.00- 120.00	100.00(a)
7.113	7.110	0.003	1576 0.05000	0.055	137.57- 177.57	160.82
7.374	7.370	0.004	1148 0.05000	0.055	93.43- 133.43	117.14
Average of Peak Amounts =			0.05467			

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0947F.D
Date : 25-MAY-2012 01:35
Client ID: AR12546R2
Sample Info: AR12546R2,AR12546R2,,ar1254,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0947R.D
Lab Smp Id: AR12546R2 Client Smp ID: AR12546R2
Inj Date : 25-MAY-2012 01:35
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12546R2,AR12546R2,,ar1254.sub,,
Misc Info : 1,6,,1
Comment :
Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
Cal Date : 25-MAY-2012 04:23 Cal File: E2L0955R.D
Als bottle: 16 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1254.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

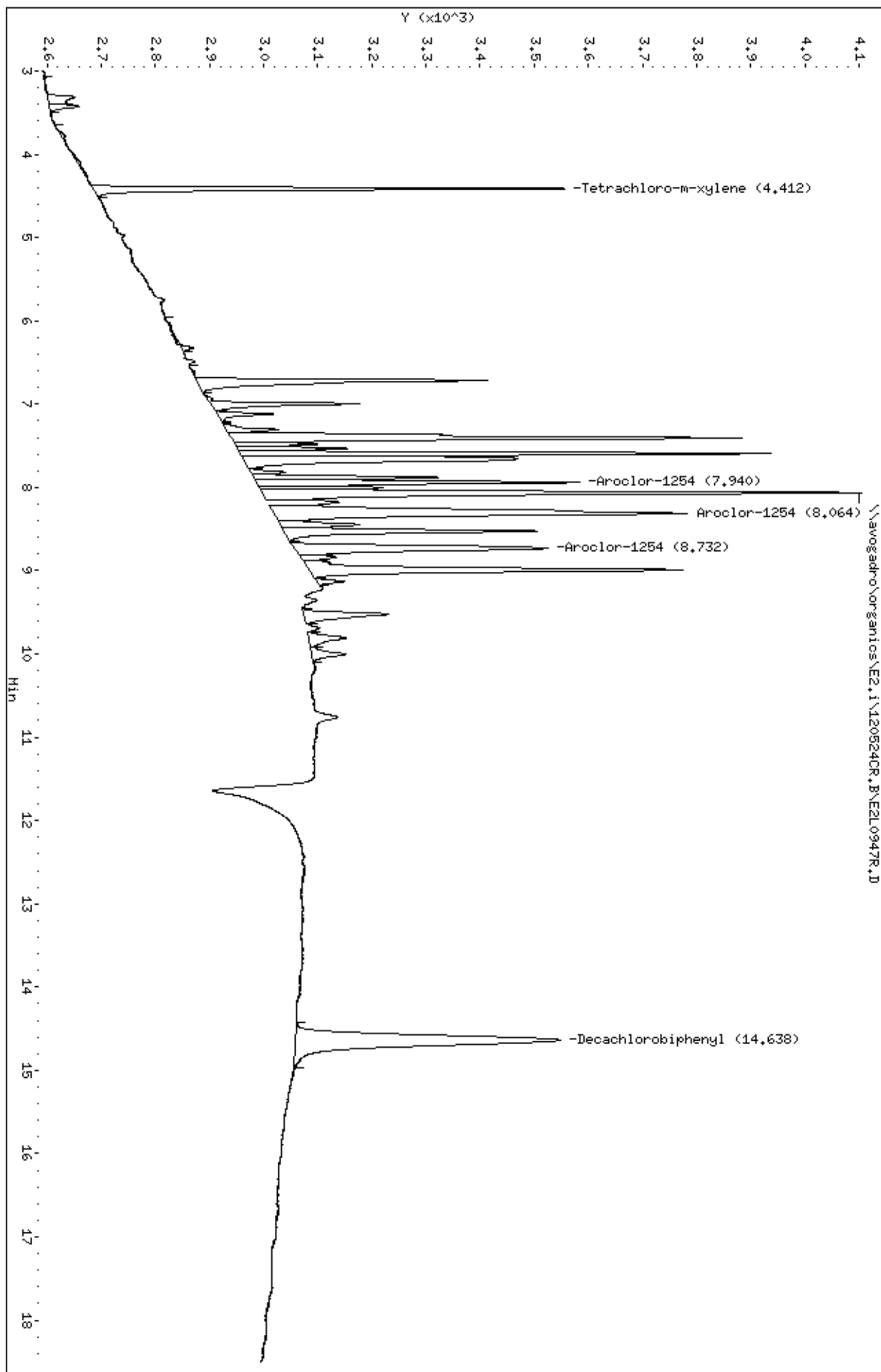
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
4.411	4.409	0.002	870 0.00000	0.0020		(a)
\$ 11					CAS #: 2051-24-3	
14.637	14.631	0.006	487 0.00000	0.0060		(a)
7					CAS #: 11097-69-1	
7.939	7.936	0.003	595 0.05000	0.053	80.00- 120.00	100.00(a)
8.064	8.060	0.004	1104 0.05000	0.054	160.94- 200.94	185.55
8.731	8.729	0.002	466 0.05000	0.050	61.10- 101.10	78.32
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\120524CR,B\E2L0947R.D
Date : 25-MAY-2012 01:35
Client ID: AR12546R2
Sample Info: AR12546R2,AR12546R2,,ar1254,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0948F.D
 Lab Smp Id: AR12542R2 Client Smp ID: AR12542R2
 Inj Date : 25-MAY-2012 01:56
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12542R2, AR12542R2,, ar1254.sub,,
 Misc Info : 1,2,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 17 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.725	3.724	0.001	5087	0.01000	0.0093	(a)

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
10.789	10.786	0.003	254958	0.02000	0.023	(a)

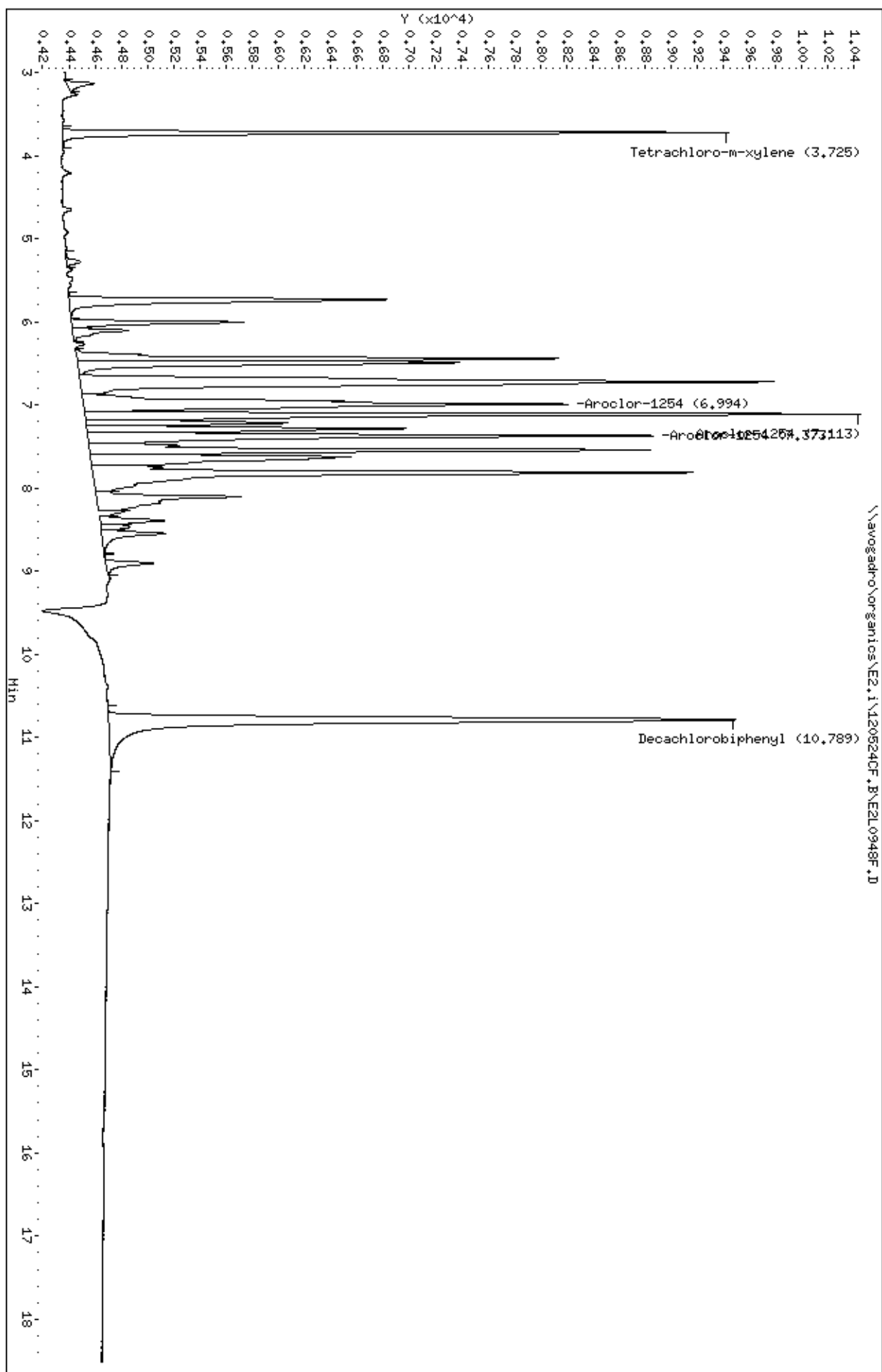
8 Aroclor-1254 CAS #: 11097-69-1						
6.993	6.991	0.002	3680	0.20000	0.20 80.00- 120.00	100.00(a)
7.113	7.110	0.003	5833	0.20000	0.20 137.57- 177.57	158.51
7.372	7.370	0.002	4259	0.20000	0.20 93.43- 133.43	115.73
Average of Peak Amounts =			0.20000			

QC Flag Legend

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

Data File: \\avogadro\organics\E2,1\120524CF.B\E2L0948F.D
 Date : 25-MAY-2012 01:56
 Client ID: AR12542R2
 Sample Info: AR12542R2,AR12542R2,,ar1254,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0948R.D
 Lab Smp Id: AR12542R2 Client Smp ID: AR12542R2
 Inj Date : 25-MAY-2012 01:56
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12542R2,AR12542R2,,ar1254.sub,,
 Misc Info : 1,2,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:43 Cal File: E2L0956R.D
 Als bottle: 17 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

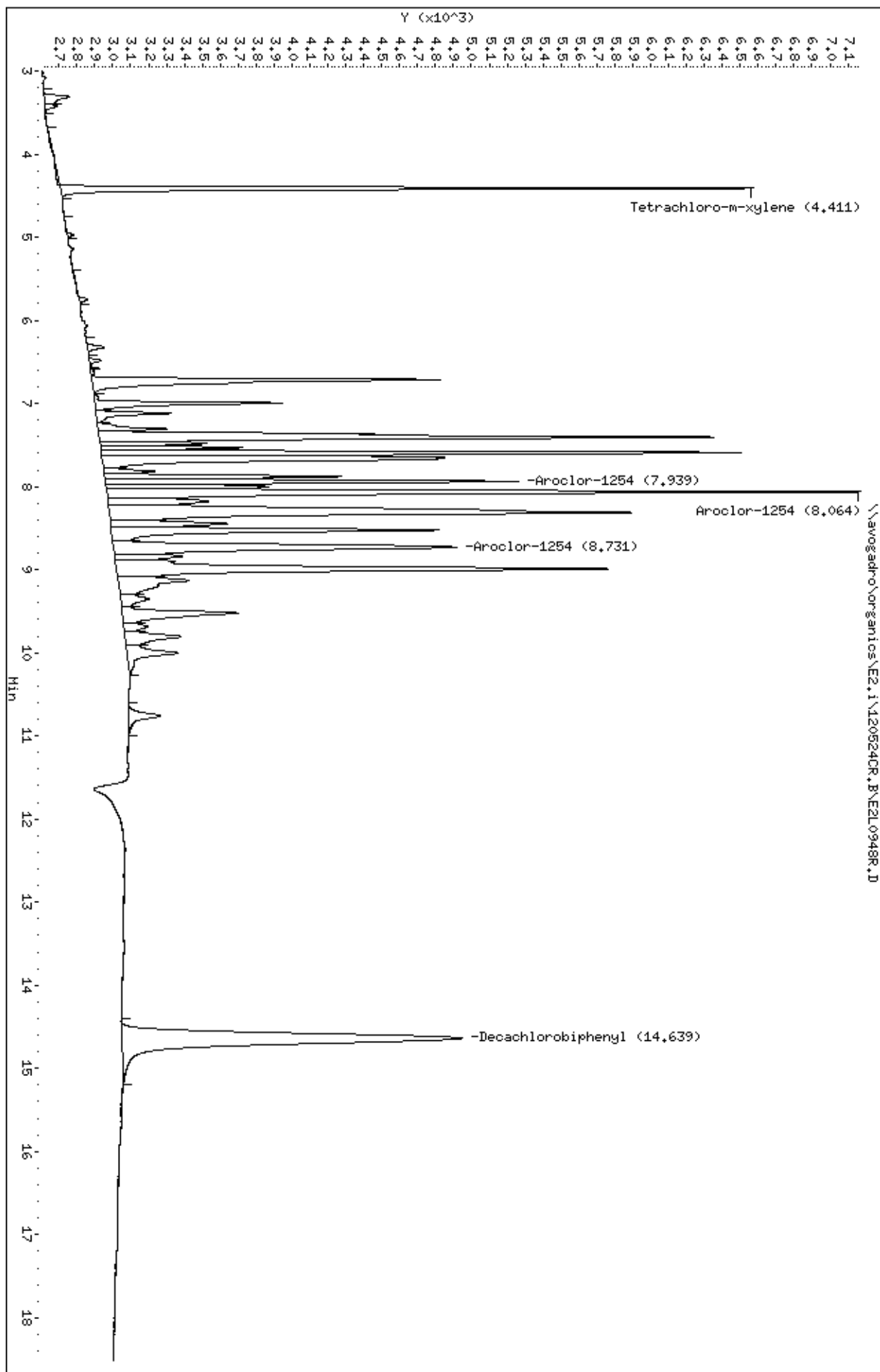
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
4.411	4.409	0.002	3862 0.01000	0.0088		(a)
\$ 11					CAS #: 2051-24-3	
14.638	14.631	0.007	1895 0.02000	0.023		(a)
7					CAS #: 11097-69-1	
7.939	7.936	0.003	2297 0.20000	0.20	80.00- 120.00	100.00(a)
8.063	8.060	0.003	4194 0.20000	0.21	160.94- 200.94	182.59
8.730	8.729	0.001	1915 0.20000	0.20	61.10- 101.10	83.37
Average of Peak Amounts =			0.20333			

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0948R.D
 Date : 25-May-2012 01:56
 Client ID: AR12542R2
 Sample Info: AR12542R2,AR12542R2,,ar1254,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLP-PestII

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0949F.D
 Lab Smp Id: AR12543R2 Client Smp ID: AR12543R2
 Inj Date : 25-MAY-2012 02:17
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12543R2,AR12543R2,,ar1254.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 18 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.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

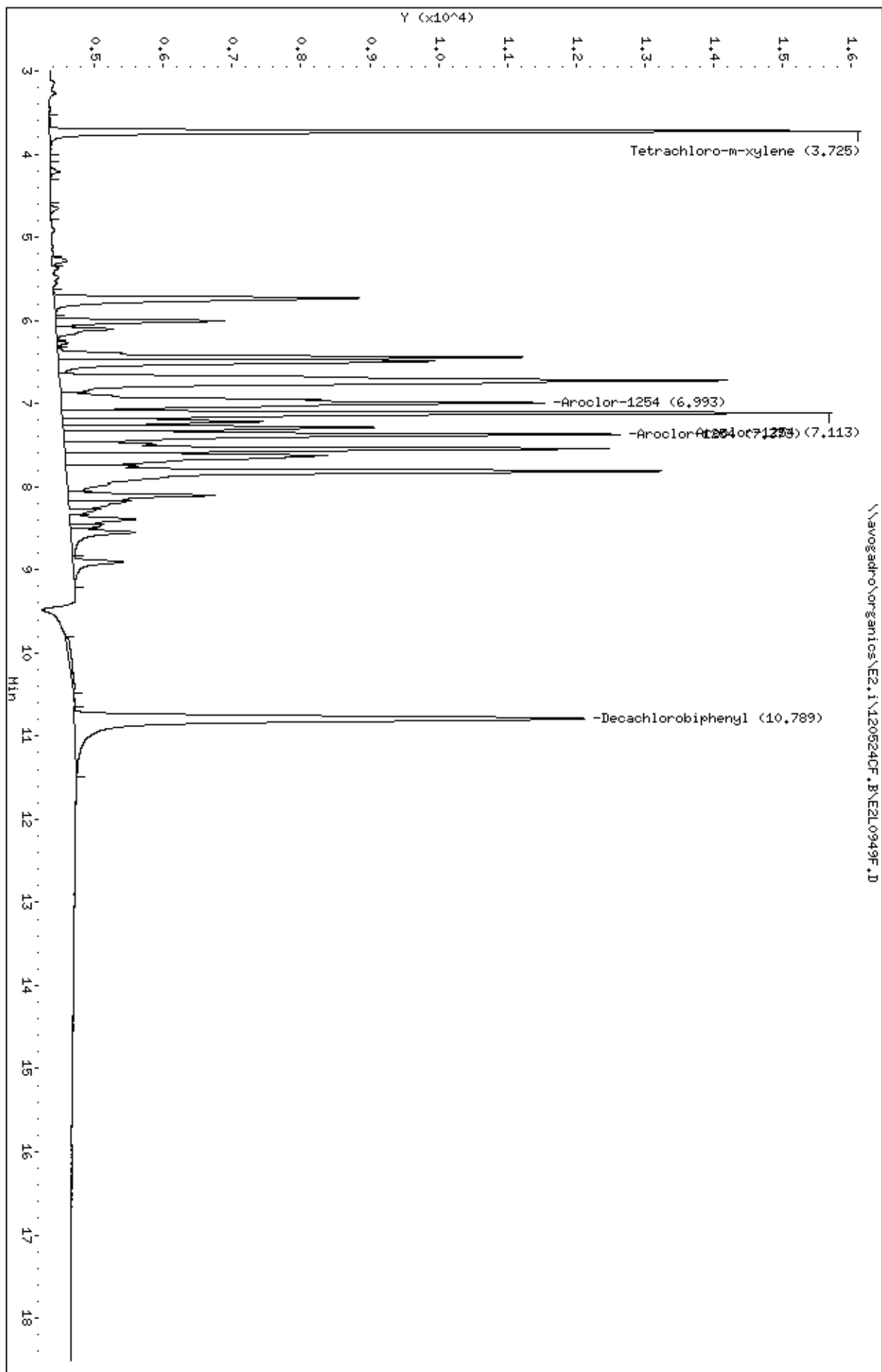
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.725	3.724	0.001	11796 0.02000	0.022		(a)
\$ 11					CAS #: 2051-24-3	
10.789	10.786	0.003	405657 0.04000	0.036		(a)
8					CAS #: 11097-69-1	
6.993	6.991	0.002	6968 0.40000	0.39	80.00- 120.00	100.00(a)
7.113	7.110	0.003	10955 0.40000	0.38	137.57- 177.57	157.22
7.372	7.370	0.002	7946 0.40000	0.38	93.43- 133.43	114.04
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\120524CF.B\E2L0949F.D
 Date : 25-MAY-2012 02:17
 Client ID: AR12543R2
 Sample Info: AR12543R2,AR12543R2,,ar1254,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0949R.D
 Lab Smp Id: AR12543R2 Client Smp ID: AR12543R2
 Inj Date : 25-MAY-2012 02:17
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12543R2, AR12543R2,, ar1254.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:04 Cal File: E2L0957R.D
 Als bottle: 18 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
4.410	4.409	0.001	9278 0.02000	0.021		(a)

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
14.637	14.631	0.006	2947 0.04000	0.036		(a)

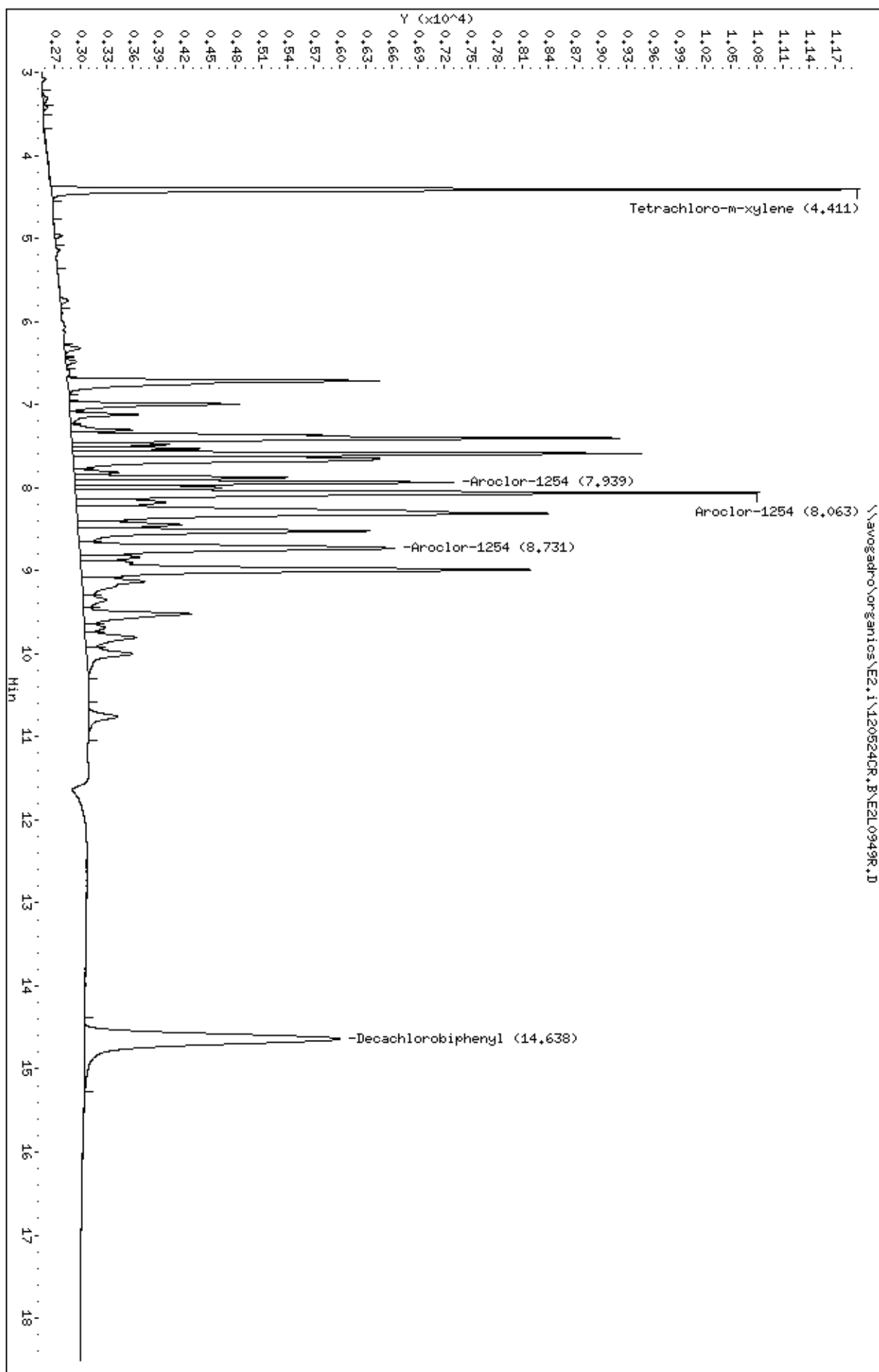
7 Aroclor-1254 CAS #: 11097-69-1						
7.938	7.936	0.002	4363 0.40000	0.39	80.00- 120.00	100.00(a)
8.062	8.060	0.002	7848 0.40000	0.38	160.94- 200.94	179.88
8.730	8.729	0.001	3638 0.40000	0.39	61.10- 101.10	83.38
Average of Peak Amounts =			0.38667			

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0949R.D
Date : 25-May-2012 02:17
Client ID: AR12543R2
Sample Info: AR12543R2,AR12543R2,,ar1254,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0950F.D
 Lab Smp Id: AR12544R2 Client Smp ID: AR12544R2
 Inj Date : 25-MAY-2012 02:38
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12544R2,AR12544R2,,ar1254.sub,,
 Misc Info : 1,4,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 19 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.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

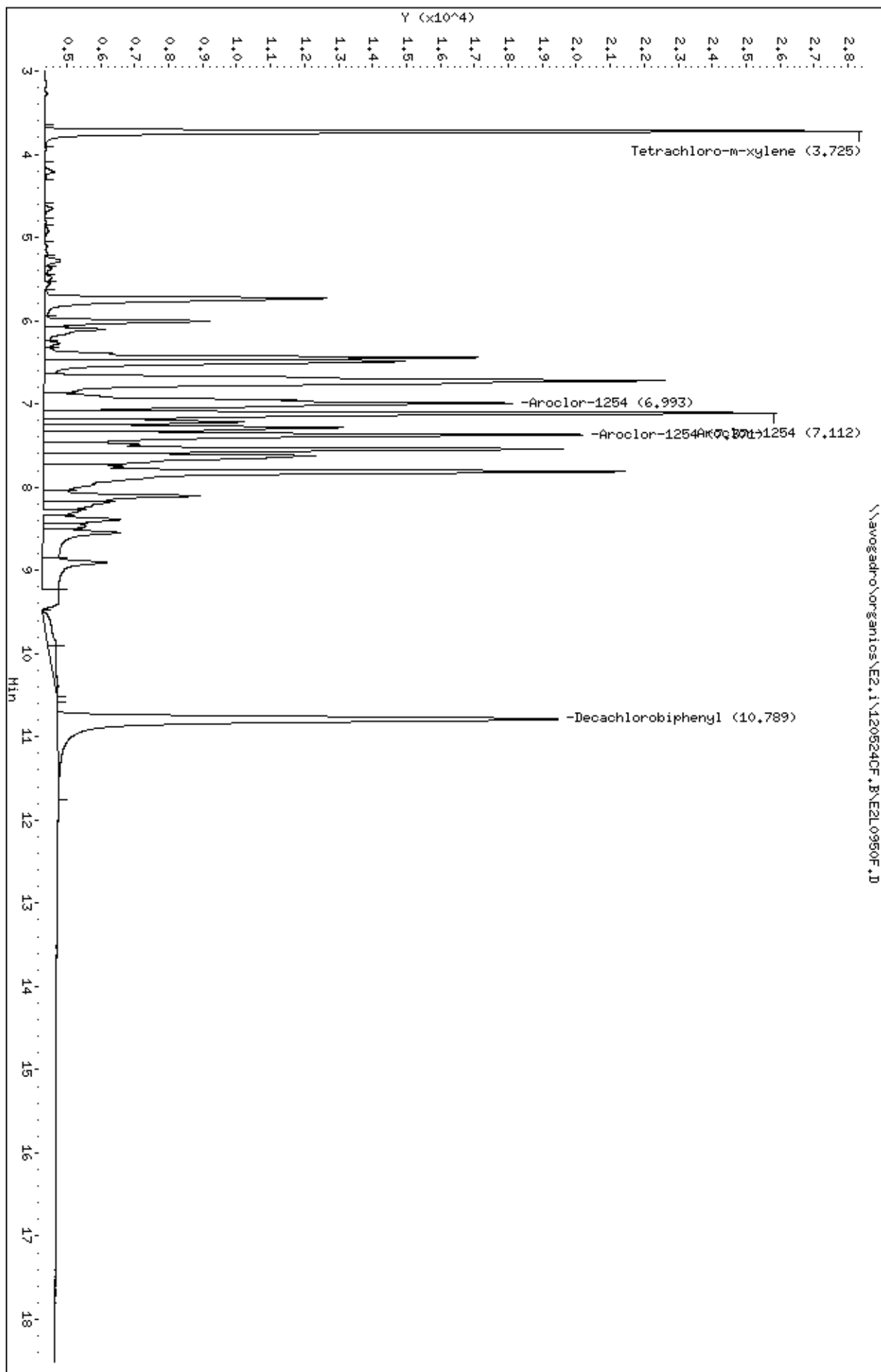
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
3.724	3.724	0.000	24089 0.04000	0.044		(a)
\$ 11					CAS #: 2051-24-3	
10.788	10.786	0.002	814283 0.08000	0.073		
8					CAS #: 11097-69-1	
6.992	6.991	0.001	13673 0.80000	0.76	80.00- 120.00	100.00(a)
7.111	7.110	0.001	21652 0.80000	0.76	137.57- 177.57	158.36
7.371	7.370	0.001	15875 0.80000	0.76	93.43- 133.43	116.10
Average of Peak Amounts =			0.76000			

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0950F.D
 Date : 25-MAY-2012 02:38
 Client ID: AR12544R2
 Sample Info: AR12544R2,AR12544R2,,ar1254,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0950R.D
 Lab Smp Id: AR12544R2 Client Smp ID: AR12544R2
 Inj Date : 25-MAY-2012 02:38
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12544R2,AR12544R2,,ar1254.sub,,
 Misc Info : 1,4,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:25 Cal File: E2L0958R.D
 Als bottle: 19 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

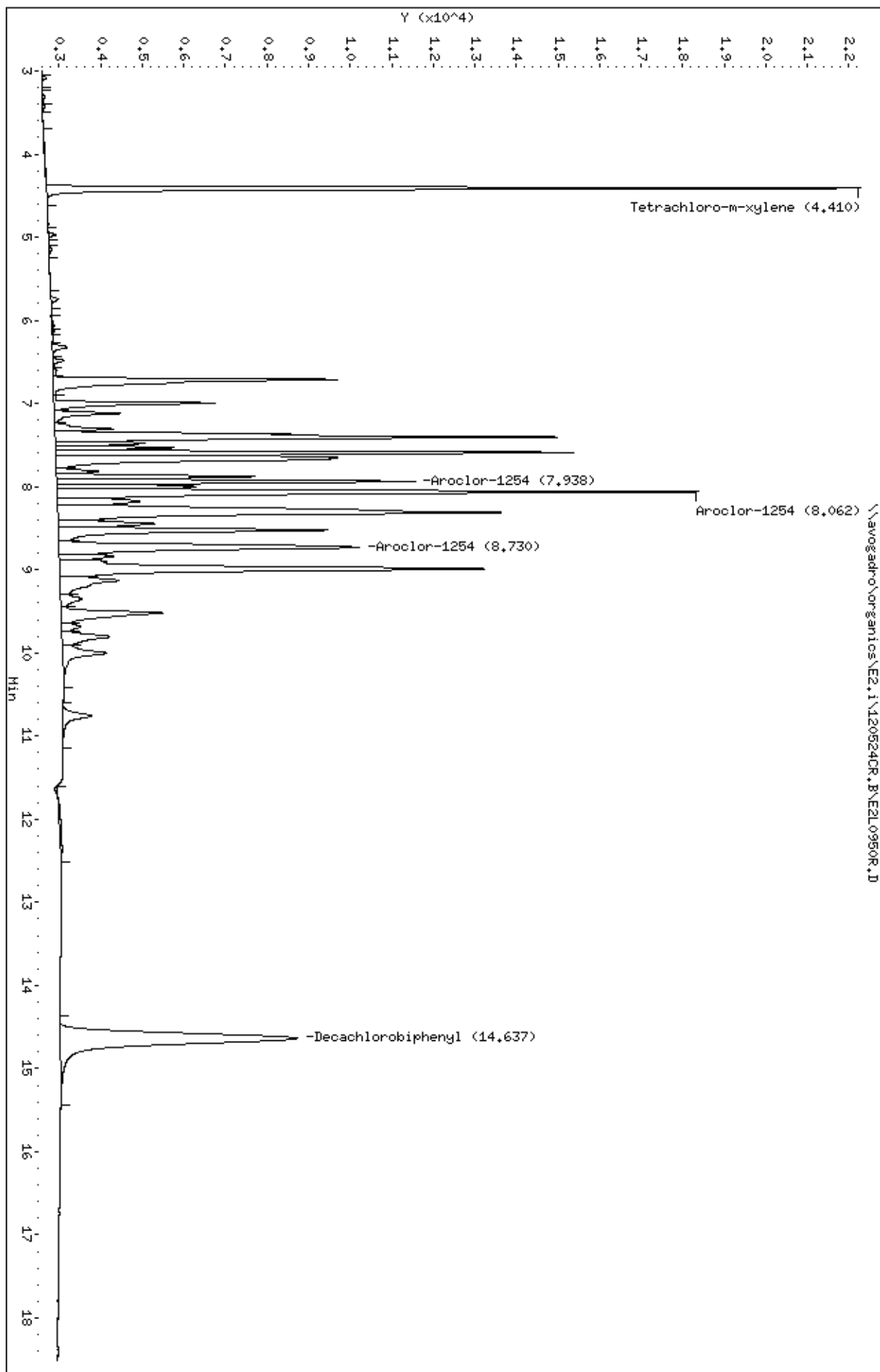
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
4.410	4.409	0.001	19497 0.04000	0.045		(a)
\$ 11					CAS #: 2051-24-3	
14.636	14.631	0.005	5695 0.08000	0.070		
7					CAS #: 11097-69-1	
7.938	7.936	0.002	8624 0.80000	0.76	80.00- 120.00	100.00(a)
8.061	8.060	0.001	15442 0.80000	0.76	160.94- 200.94	179.06
8.730	8.729	0.001	7252 0.80000	0.78	61.10- 101.10	84.09
Average of Peak Amounts =			0.76667			

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0950R.D
Date : 25-May-2012 02:38
Client ID: AR12544R2
Sample Info: AR12544R2,AR12544R2,,ar1254,sub,,
Volume Injected (uL): 1.0
Column phase: CLP-PestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\120524CF.B\E2L0951F.D
 Report Date: 25-May-2012 15:56

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0951F.D
 Lab Smp Id: AR12545R2 Client Smp ID: AR12545R2
 Inj Date : 25-MAY-2012 02:59
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12545R2,AR12545R2,,ar1254.sub,,
 Misc Info : 1,5,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 20 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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

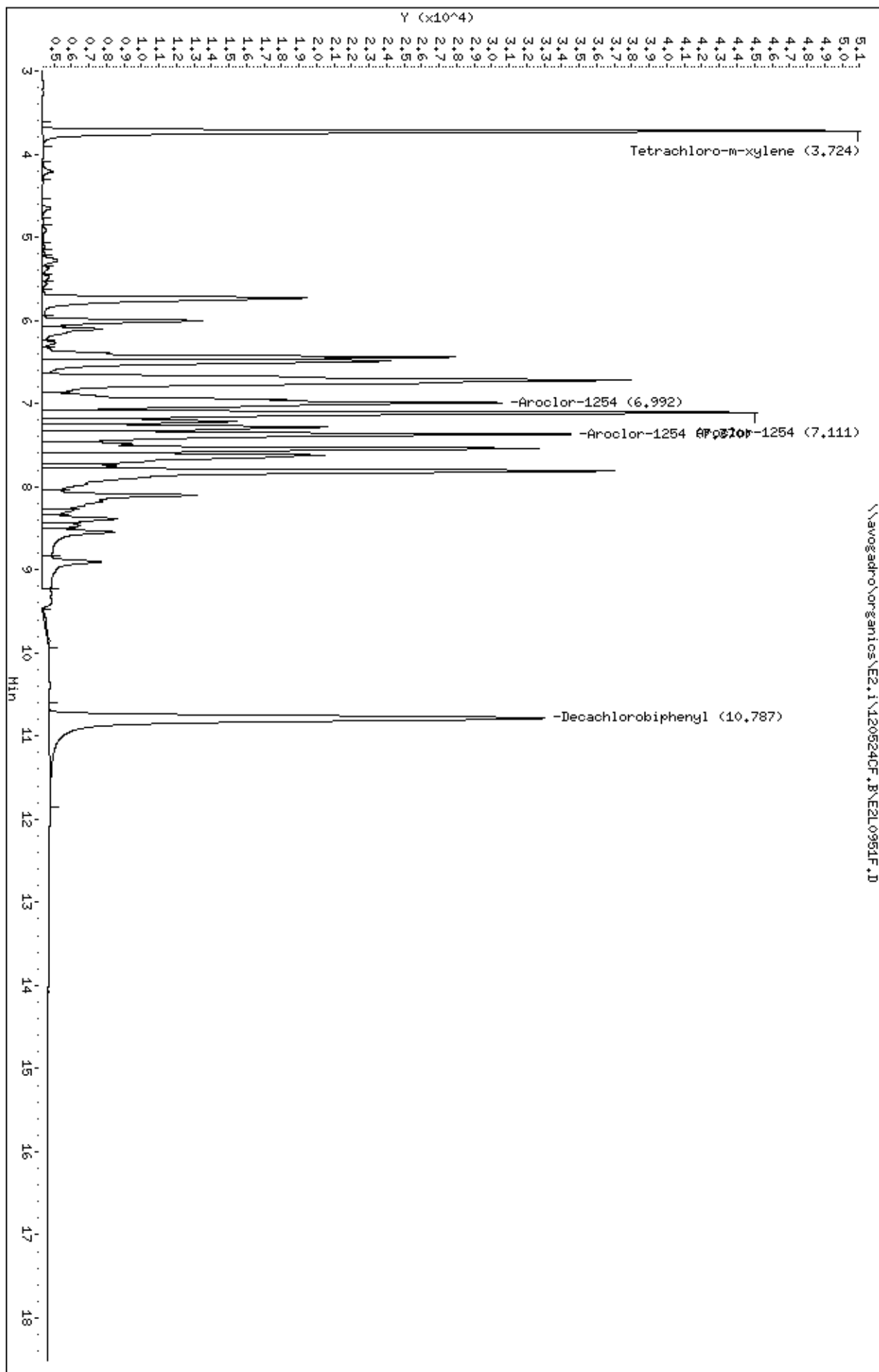
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.724	3.724	0.000	46642	0.08000	0.085	

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
10.786	10.786	0.000	1578898	0.16000	0.14	

8 Aroclor-1254 CAS #: 11097-69-1						
6.991	6.991	0.000	26202	1.60000	1.4 80.00- 120.00	100.00
7.110	7.110	0.000	40800	1.60000	1.4 137.57- 177.57	155.71
7.370	7.370	0.000	30124	1.60000	1.4 93.43- 133.43	114.97
Average of Peak Amounts =			1.40000			

Data File: \\avogadro\organics\E2,i\120524CF.B\E2L095LF.D
 Date : 25-MAY-2012 02:59
 Client ID: AR12545R2
 Sample Info: AR12545R2,AR12545R2,,ar1254,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0951R.D
 Lab Smp Id: AR12545R2 Client Smp ID: AR12545R2
 Inj Date : 25-MAY-2012 02:59
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12545R2,AR12545R2,,ar1254.sub,,
 Misc Info : 1,5,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.D
 Als bottle: 20 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1254.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

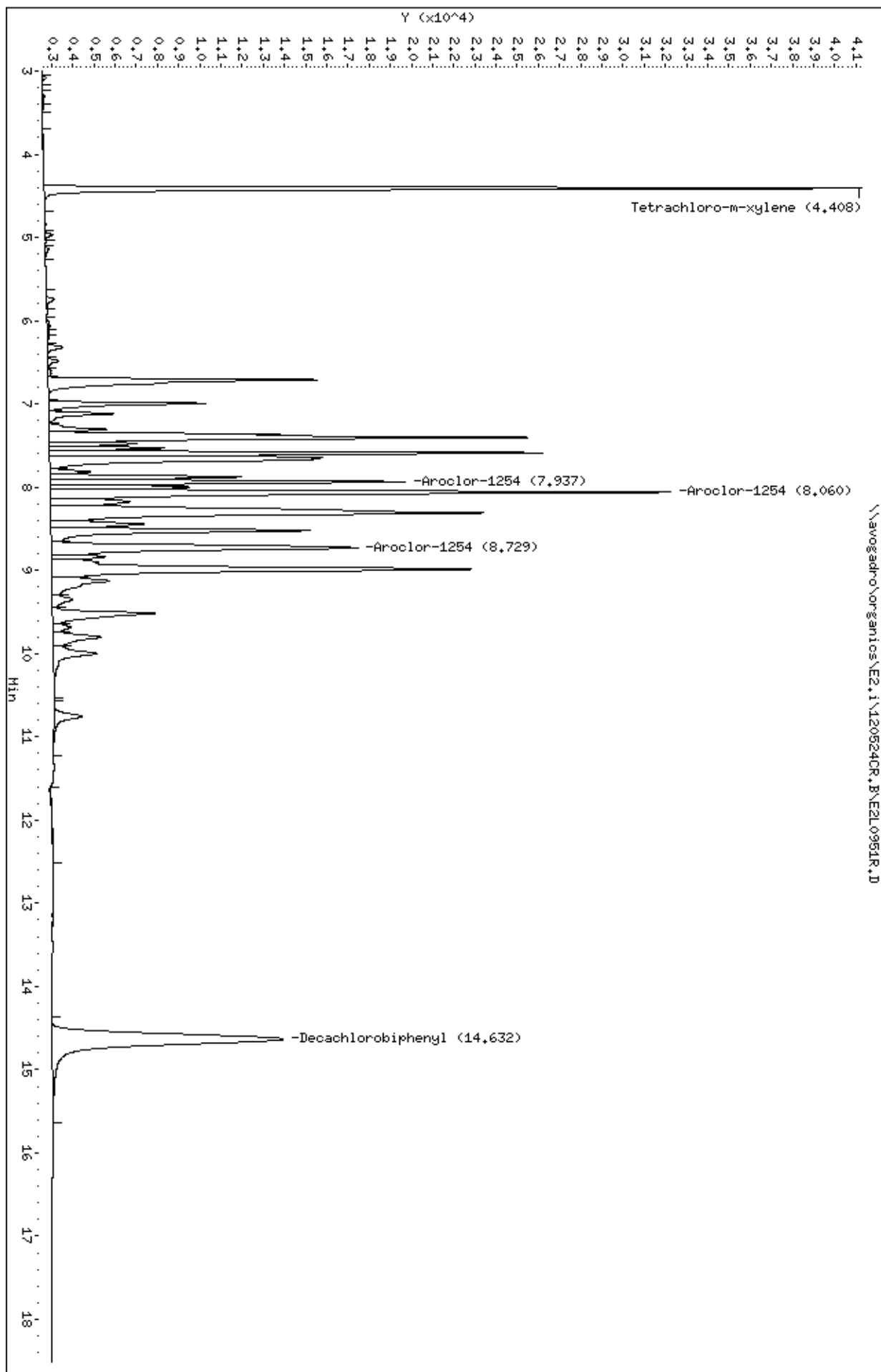
Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
4.408	4.409	-0.001	38620 0.08000	0.088		
\$ 11					CAS #: 2051-24-3	
14.632	14.631	0.001	10916 0.16000	0.13		
7					CAS #: 11097-69-1	
7.936	7.936	0.000	16756 1.60000	1.5	80.00- 120.00	100.00
8.060	8.060	0.000	29260 1.60000	1.4	160.94- 200.94	174.62
8.729	8.729	0.000	14512 1.60000	1.6	61.10- 101.10	86.61
Average of Peak Amounts =			1.50000			

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L095LR.D
Date : 25-MAY-2012 02:59
Client ID: AR12545R2
Sample Info: AR12545R2,AR12545R2,,ar1254,sub,,
Volume Injected (uL): 1.0
Column phase: CLP-PestII

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0952F.D
 Lab Smp Id: AR12623R2 Client Smp ID: AR12623R2
 Inj Date : 25-MAY-2012 03:20
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12623R2,AR12623R2,,ar1262.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 21 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1262.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.724	3.724	0.000	9877 0.02000	0.018		(a)

2	Aroclor-1262		CAS #: 37324-23-5			
8.546	8.546	0.000	15838 0.40000	0.40	80.00- 120.00	100.00
8.953	8.953	0.000	7712 0.40000	0.40	28.69- 68.69	48.69
9.011	9.011	0.000	6956 0.40000	0.40	23.92- 63.92	43.92
Average of Peak Amounts =			0.40000			

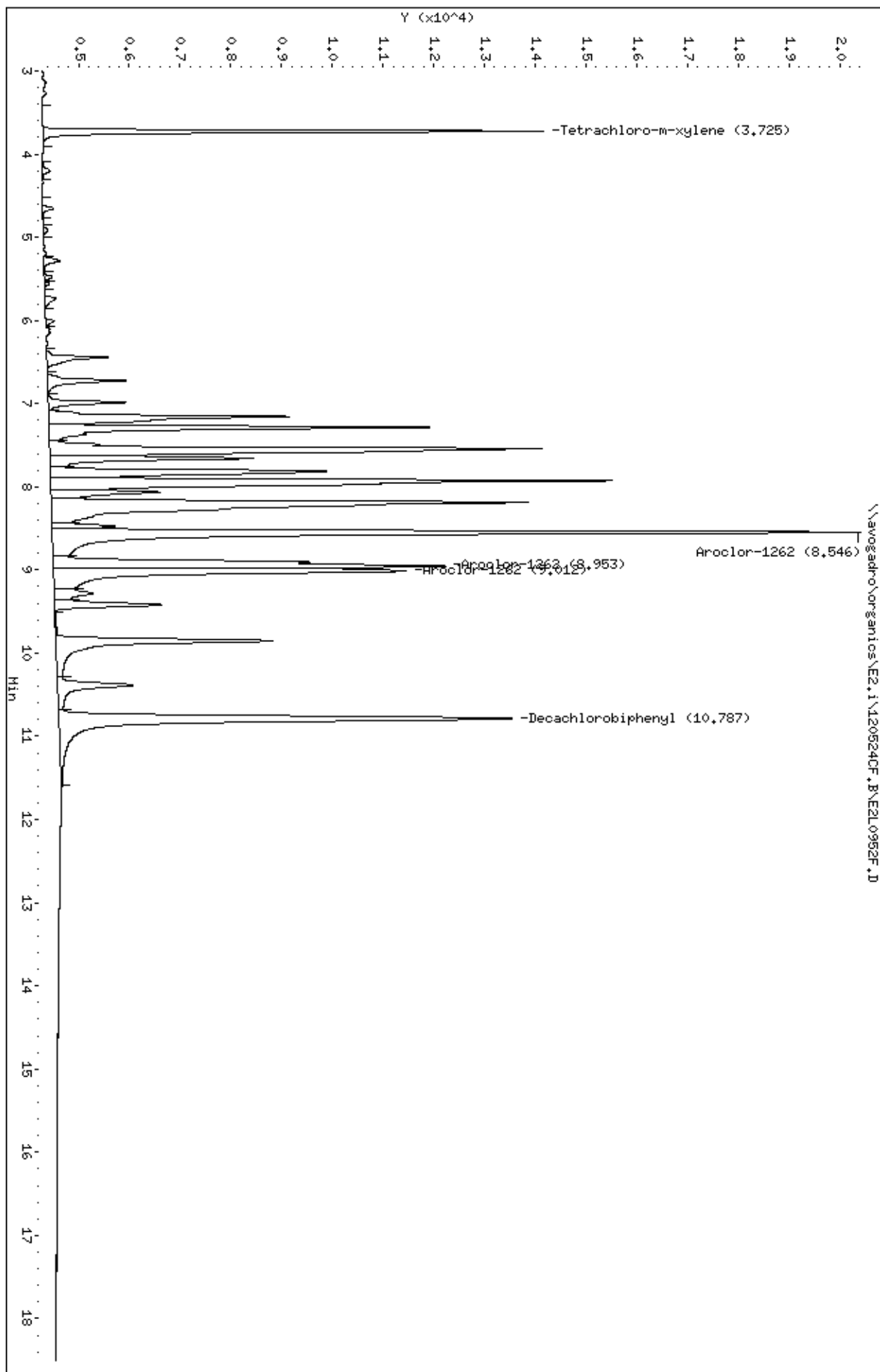
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.786	10.786	0.000	500717 0.04000	0.045		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0952F.D
Date : 25-MAY-2012 03:20
Client ID: AR12623R2
Sample Info: AR12623R2,AR12623R2,,ar1262,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0952R.D
Lab Smp Id: AR12623R2 Client Smp ID: AR12623R2
Inj Date : 25-MAY-2012 03:20
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12623R2,AR12623R2,,ar1262.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
Cal Date : 25-MAY-2012 05:04 Cal File: E2L0957R.D
Als bottle: 21 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1262.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.409	4.409	0.000	7661 0.02000	0.018		(a)

10	Aroclor-1262		CAS #: 37324-23-5			
10.000	10.000	0.000	8184 0.40000	0.40	80.00- 120.00	100.00(a)
10.742	10.742	0.000	5017 0.40000	0.40	41.30- 81.30	61.30
10.855	10.855	0.000	2726 0.40000	0.40	13.31- 53.31	33.31
Average of Peak Amounts =			0.40000			

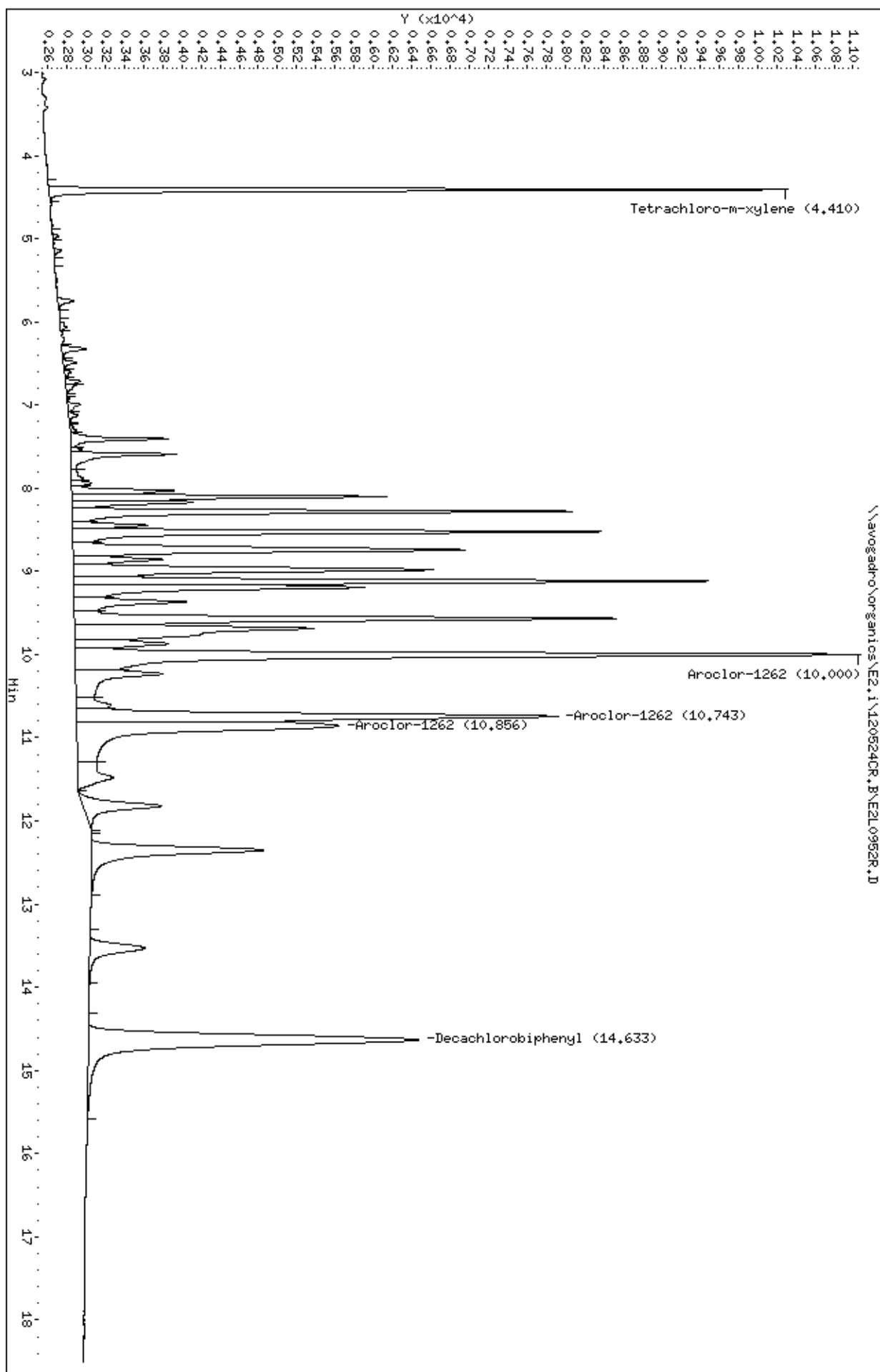
\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.632	14.631	0.001	3447 0.04000	0.041		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0952R.D
 Date : 25-May-2012 03:20
 Client ID: AR12623R2
 Sample Info: AR12623R2,AR12623R2,,ar1262,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0953F.D
 Lab Smp Id: AR12683R2 Client Smp ID: AR12683R2
 Inj Date : 25-MAY-2012 03:41
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12683R2,AR12683R2,,ar1268.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 22 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1268.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

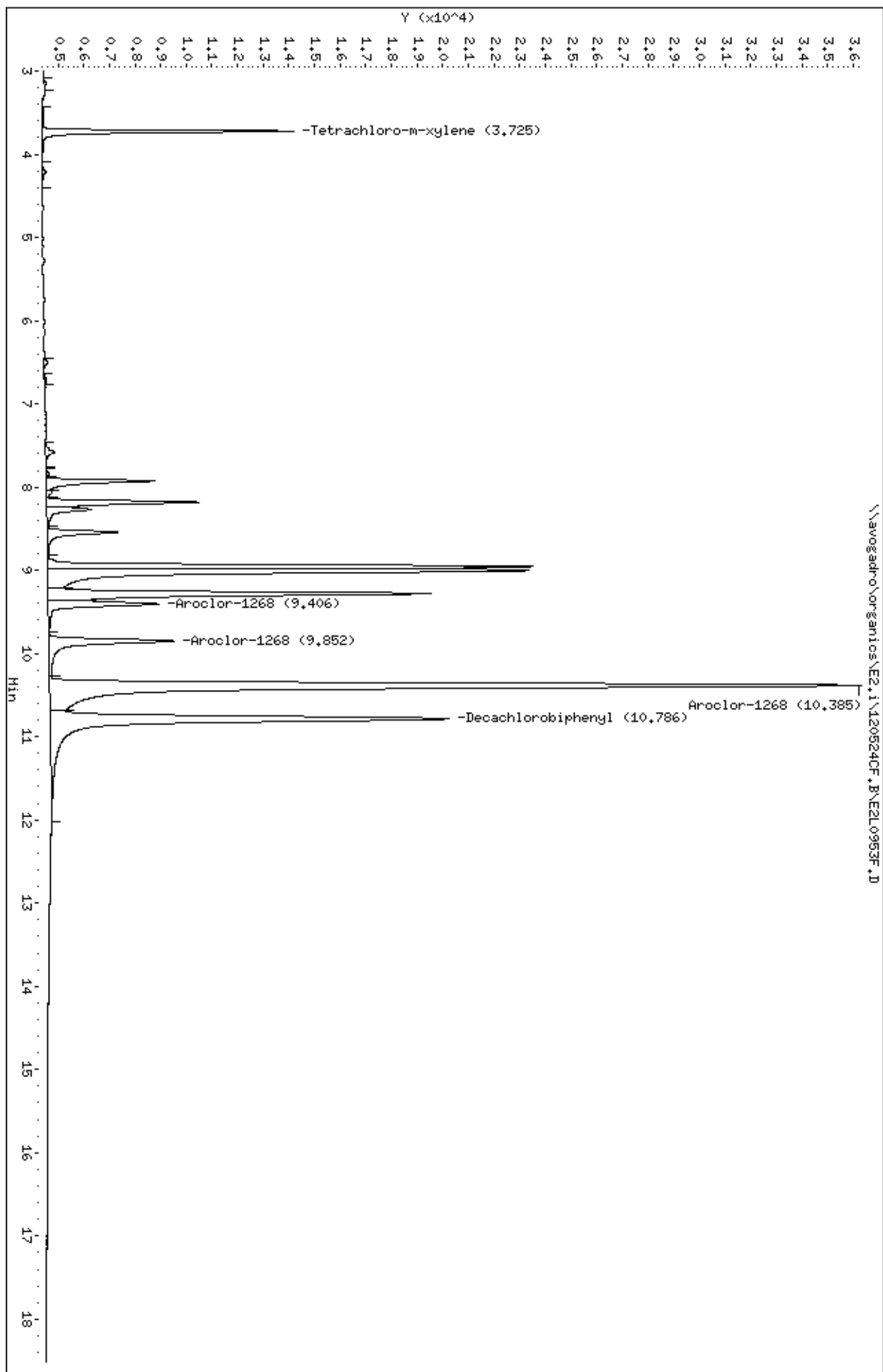
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1	Tetrachloro-m-xylene			CAS #: 877-09-8		
3.724	3.724	0.000	9811 0.02000	0.018		(a)
10	Aroclor-1268			CAS #: 11100-14-4		
9.405	9.405	0.000	4288 0.40000	0.40	80.00- 120.00	100.00(a)
9.851	9.851	0.000	4882 0.40000	0.40	93.85- 133.85	113.85
10.384	10.384	0.000	31668 0.40000	0.40	718.53- 758.53	738.53
Average of Peak Amounts =			0.40000			
\$ 11	Decachlorobiphenyl			CAS #: 2051-24-3		
10.785	10.786	-0.001	951125 0.04000	0.085		

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0953F.D
Date : 25-MAY-2012 03:41
Client ID: AR12683R2
Sample Info: AR12683R2,AR12683R2,,ar1268,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0953R.D
 Lab Smp Id: AR12683R2 Client Smp ID: AR12683R2
 Inj Date : 25-MAY-2012 03:41
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR12683R2,AR12683R2,,ar1268.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:04 Cal File: E2L0957R.D
 Als bottle: 22 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1268.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
\$ 1					CAS #: 877-09-8	
4.409	4.409	0.000	7578 0.02000	0.018		(a)

9					CAS #: 11100-14-4	
11.754	11.754	0.000	1495 0.40000	0.40	80.00- 120.00	100.00(a)
12.349	12.349	0.000	2008 0.40000	0.40	114.31- 154.31	134.31
13.529	13.529	0.000	12077 0.40000	0.40	787.83- 827.83	807.83
Average of Peak Amounts =			0.40000			

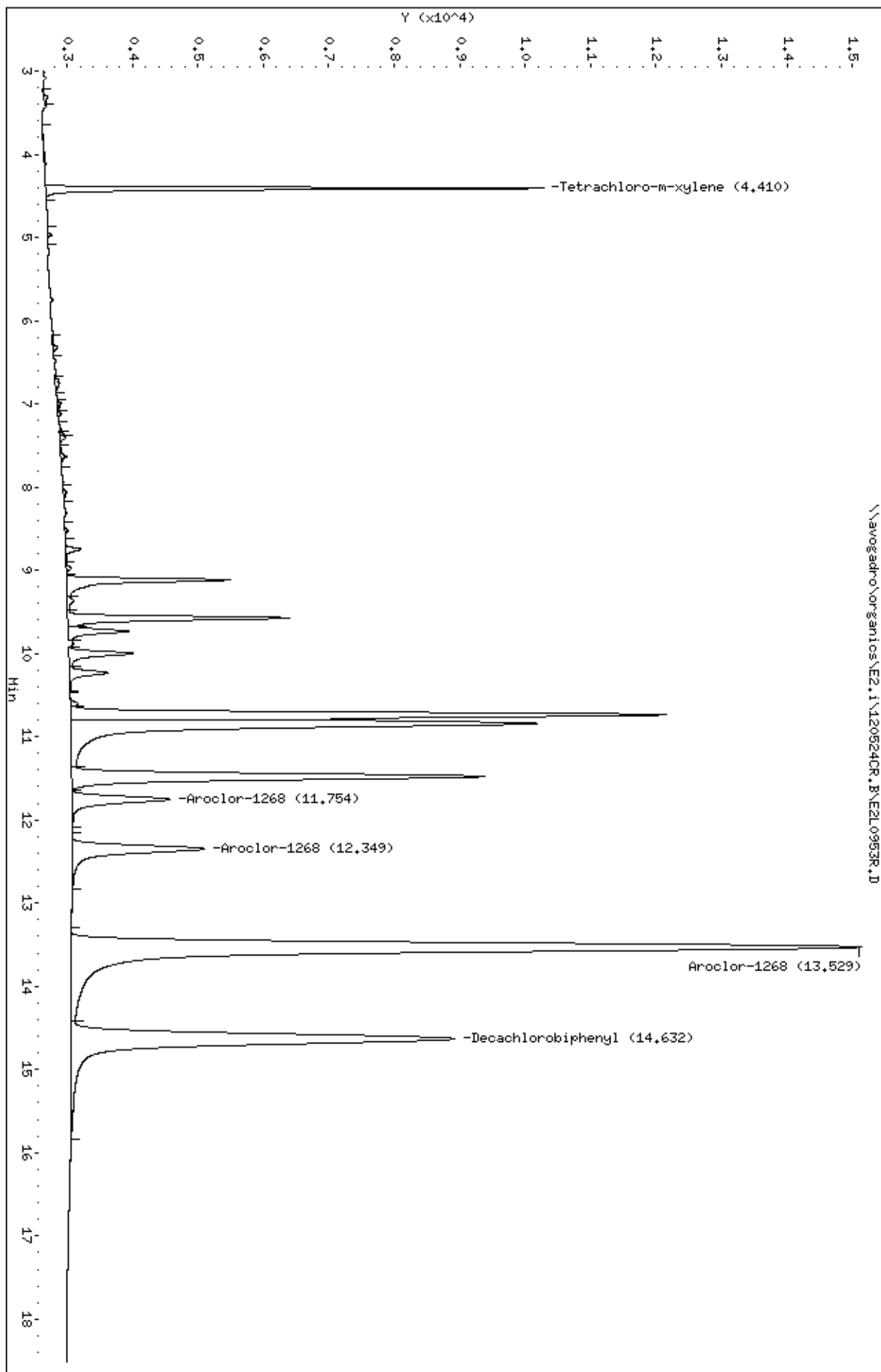
\$ 11					CAS #: 2051-24-3	
14.631	14.631	0.000	5860 0.04000	0.061		

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0953R.D
Date : 25-MAY-2012 03:41
Client ID: AR12683R2
Sample Info: AR12683R2,AR12683R2,,ar1268,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0954F.D
 Lab Smp Id: AR16601R2 Client Smp ID: AR16601R2
 Inj Date : 25-MAY-2012 04:02
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16601R2,AR16601R2,,ar1660.sub,,
 Misc Info : 1,1,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 23 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.725	3.724	0.001	2422 0.00500	0.0044		(a)

5	Aroclor-1016		CAS #: 12674-11-2			
4.651	4.650	0.001	1986 0.10000	0.11 80.00- 120.00	100.00(aM)M3 GMA 05/25	
5.288	5.285	0.003	2956 0.10000	0.11 137.28- 177.28	148.84	
6.008	6.007	0.001	1388 0.10000	0.11 53.91- 93.91	69.89	
Average of Peak Amounts =			0.11000			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.788	10.786	0.002	123144 0.01000	0.011		(a)

9	Aroclor-1260		CAS #: 11096-82-5			
7.286	7.283	0.003	2670 0.10000	0.11 80.00- 120.00	100.00(aM)M3 GMA 05/25	
7.543	7.541	0.002	3751 0.10000	0.11 124.23- 164.23	140.49	
7.813	7.811	0.002	2663 0.10000	0.10 95.61- 135.61	99.74	
Average of Peak Amounts =			0.10667			

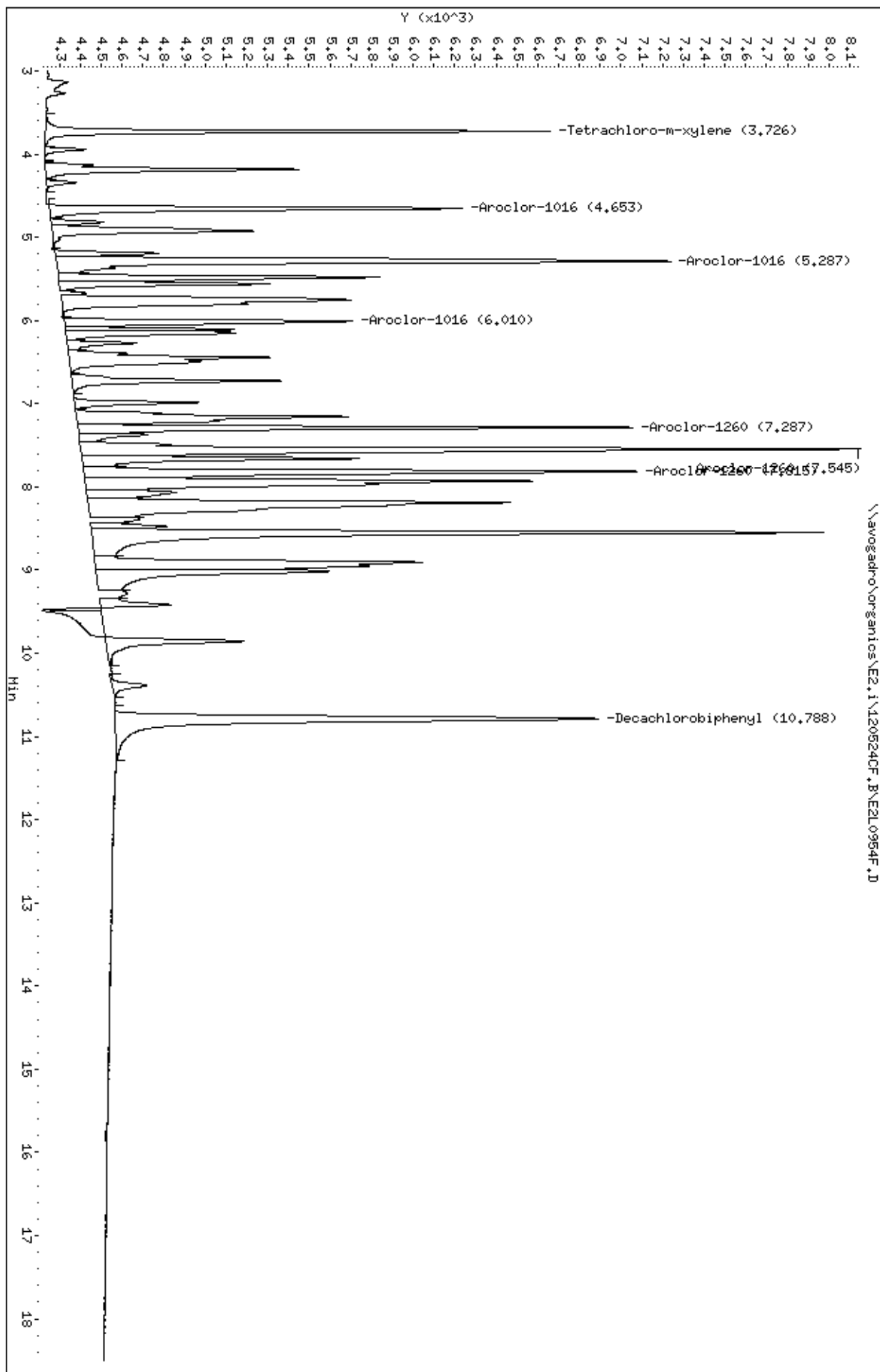
Data File: \\avogadro\organics\E2.i\120524CF.B\E2L0954F.D
Report Date: 25-May-2012 15:56

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\120524CF,B\E2L0954F.D
 Date : 25-May-2012 04:02
 Client ID: AR16601R2
 Sample Info: AR16601R2,AR16601R2,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0954R.D
Lab Smp Id: AR16601R2 Client Smp ID: AR16601R2
Inj Date : 25-MAY-2012 04:02
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16601R2,AR16601R2,,ar1660.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
Cal Date : 25-MAY-2012 04:02 Cal File: E2L0954R.D
Als bottle: 23 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.411	4.409	0.002	1746 0.00500	0.0042		(a)

6	Aroclor-1016		CAS #: 12674-11-2			
5.747	5.743	0.004	1483 0.10000	0.11 80.00- 120.00	100.00(a)	
6.325	6.323	0.002	2471 0.10000	0.11 160.71- 200.71	166.62	
6.488	6.485	0.003	1270 0.10000	0.11 71.62- 111.62	85.64	
Average of Peak Amounts =			0.11000			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.633	14.631	0.002	918 0.01000	0.0097		(a)

8	Aroclor-1260		CAS #: 11096-82-5			
8.279	8.276	0.003	1789 0.10000	0.11 80.00- 120.00	100.00(a)	
8.524	8.520	0.004	1905 0.10000	0.11 86.95- 126.95	106.48	
8.985	8.982	0.003	1597 0.10000	0.10 80.14- 120.14	89.27	
Average of Peak Amounts =			0.10667			

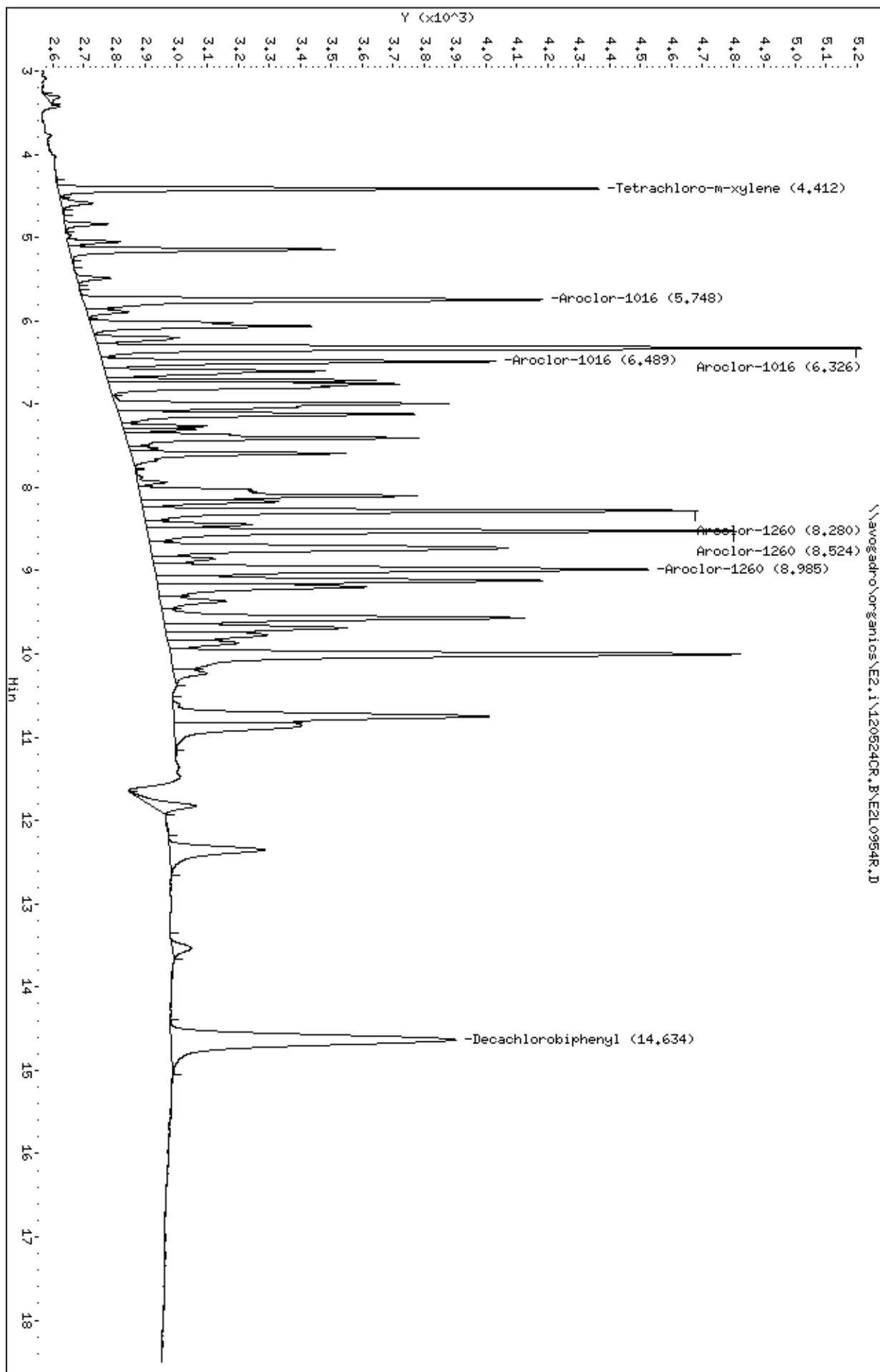
Data File: \\avogadro\organics\E2.i\120524CR.B\E2L0954R.D
Report Date: 25-May-2012 15:57

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0954R.D
Date : 25-MAY-2012 04:02
Client ID: AR16601R2
Sample Info: AR16601R2,AR16601R2,,ar1660,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0955F.D
 Lab Smp Id: AR16606R2 Client Smp ID: AR16606R2
 Inj Date : 25-MAY-2012 04:23
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16606R2,AR16606R2,,ar1660.sub,,
 Misc Info : 1,6,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 24 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.725	3.724	0.001	1225 0.00000	0.0022	(a)	

5	Aroclor-1016		CAS #: 12674-11-2			
4.652	4.650	0.002	1037 0.05000	0.059	80.00- 120.00	100.00(aM)M3 GMA 05/25
5.287	5.285	0.002	1542 0.05000	0.057	137.28- 177.28	148.70
6.008	6.007	0.001	725 0.05000	0.057	53.91- 93.91	69.91
Average of Peak Amounts =			0.05767			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.788	10.786	0.002	62005 0.00000	0.0056	(a)	

9	Aroclor-1260		CAS #: 11096-82-5			
7.286	7.283	0.003	1406 0.05000	0.059	80.00- 120.00	100.00(aM)M3 GMA 05/25
7.543	7.541	0.002	1970 0.05000	0.057	124.23- 164.23	140.11
7.813	7.811	0.002	1380 0.05000	0.052	95.61- 135.61	98.15
Average of Peak Amounts =			0.05600			

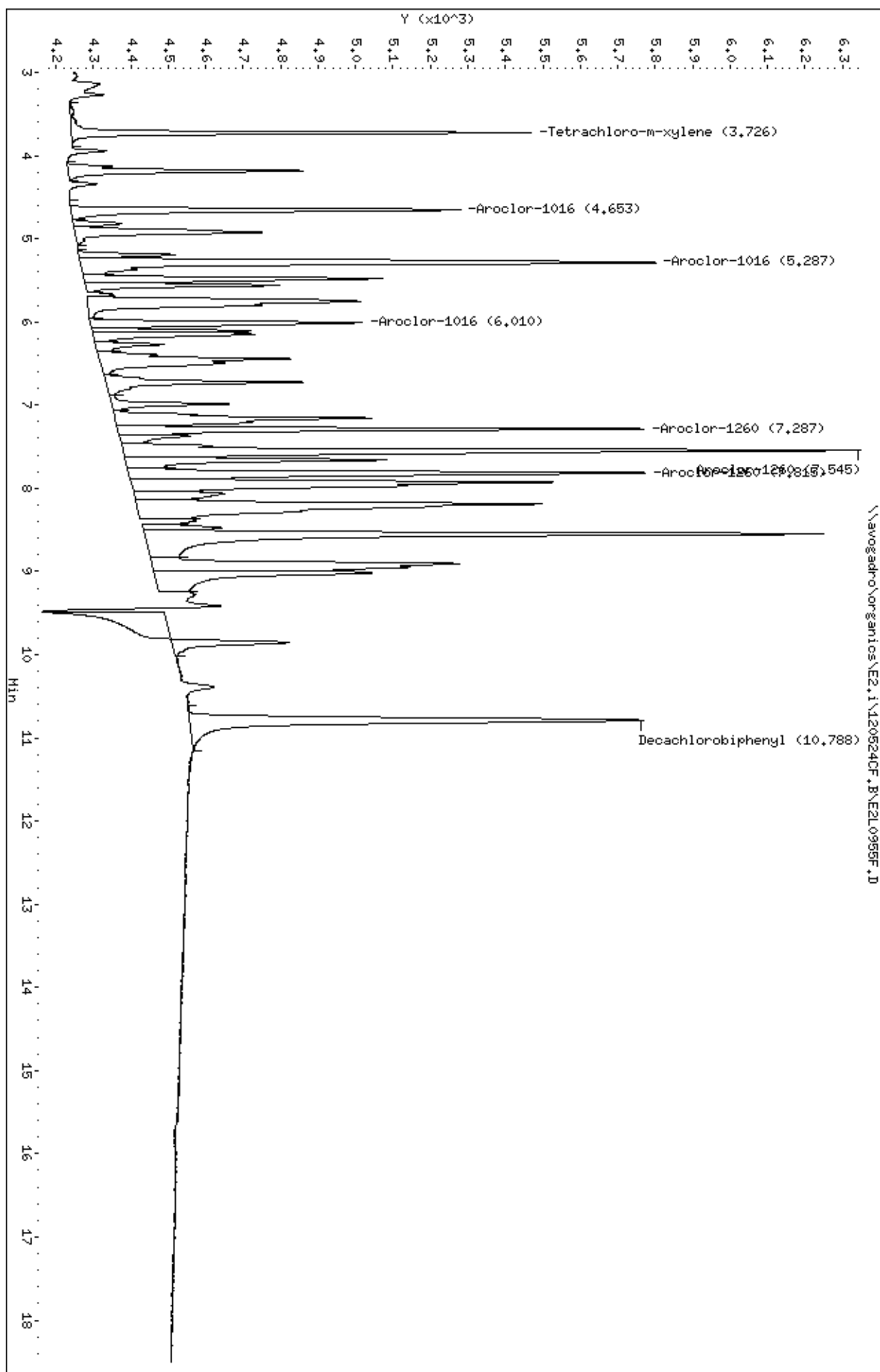
Data File: \\avogadro\organics\E2.i\120524CF.B\E2L0955F.D
Report Date: 25-May-2012 15:56

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\120524CF,B\E2L0955F.D
 Date : 25-MAY-2012 04:23
 Client ID: AR16606R2
 Sample Info: AR16606R2,AR16606R2,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0955R.D
 Lab Smp Id: AR16606R2 Client Smp ID: AR16606R2
 Inj Date : 25-MAY-2012 04:23
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16606R2,AR16606R2,,ar1660.sub,,
 Misc Info : 1,6,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:23 Cal File: E2L0955R.D
 Als bottle: 24 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: TARGET106

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.411	4.409	0.002	874 0.00000	0.0021		(a)

6	Aroclor-1016		CAS #: 12674-11-2			
5.747	5.743	0.004	773 0.05000	0.059	80.00- 120.00	100.00(a)
6.325	6.323	0.002	1251 0.05000	0.054	160.71- 200.71	161.84
6.488	6.485	0.003	643 0.05000	0.055	71.62- 111.62	83.18
Average of Peak Amounts =			0.05600			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.635	14.631	0.004	479 0.00000	0.0051		(a)

8	Aroclor-1260		CAS #: 11096-82-5			
8.279	8.276	0.003	920 0.05000	0.056	80.00- 120.00	100.00(a)
8.524	8.520	0.004	974 0.05000	0.056	86.95- 126.95	105.87
8.985	8.982	0.003	799 0.05000	0.051	80.14- 120.14	86.85
Average of Peak Amounts =			0.05433			

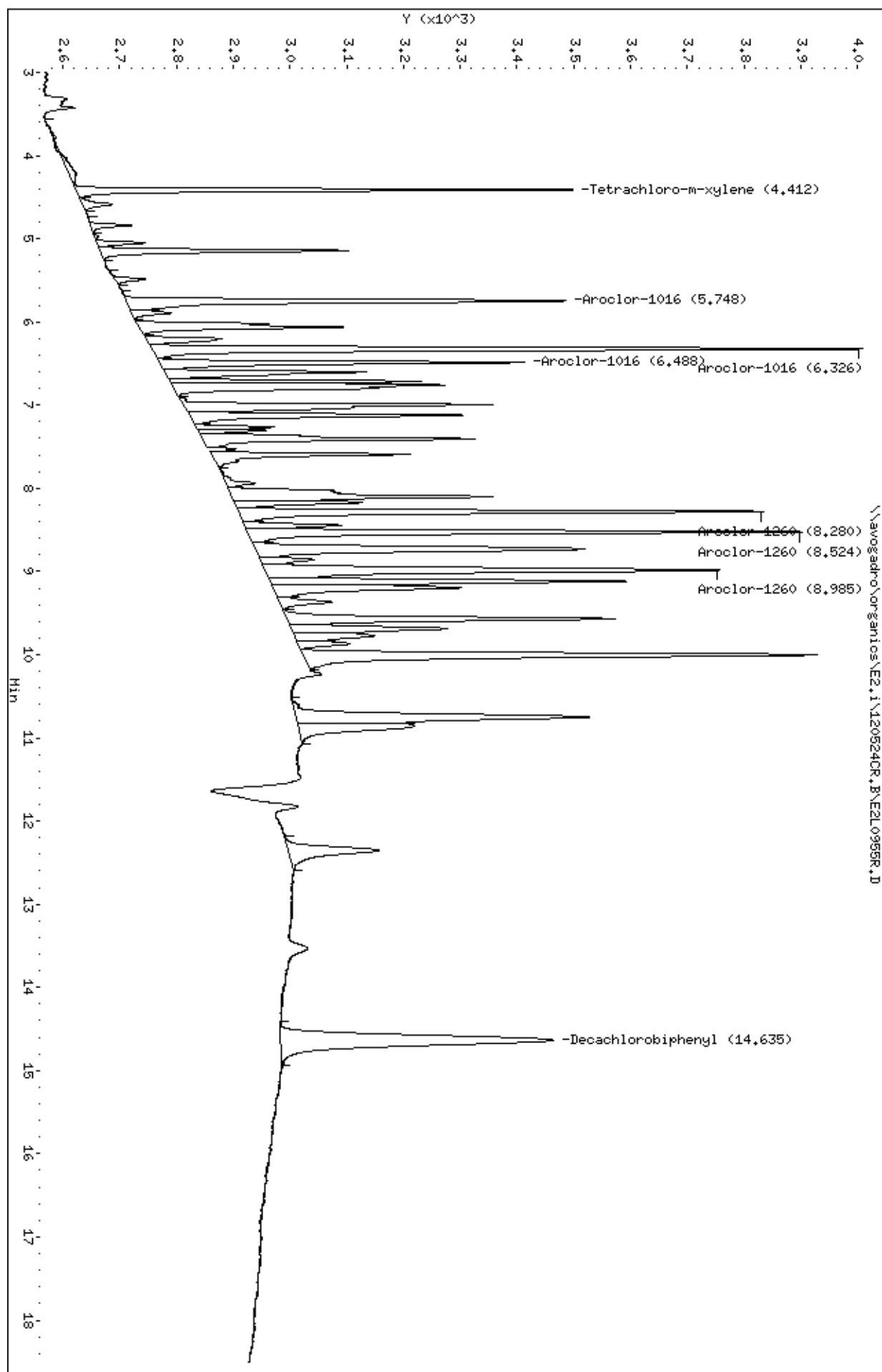
Data File: \\avogadro\organics\E2.i\120524CR.B\E2L0955R.D
Report Date: 25-May-2012 15:57

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0955R.D
Date : 25-MAY-2012 04:23
Client ID: AR16606R2
Sample Info: AR16606R2,AR16606R2,,ar1660,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0956F.D
 Lab Smp Id: AR16602R2 Client Smp ID: AR16602R2
 Inj Date : 25-MAY-2012 04:43
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16602R2,AR16602R2,,ar1660.sub,,
 Misc Info : 1,2,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 25 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.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									
3.725	3.724	0.001	4963	0.01000	0.0090				(a)

5 Aroclor-1016 CAS #: 12674-11-2									
4.651	4.650	0.001	3707	0.20000	0.21	80.00- 120.00	100.00(aM)M3	GMA 05/25	
5.286	5.285	0.001	5664	0.20000	0.21	137.28- 177.28	152.79		
6.006	6.007	-0.001	2702	0.20000	0.21	53.91- 93.91	72.89		
Average of Peak Amounts =			0.21000						

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3									
10.787	10.786	0.001	244424	0.02000	0.022				(a)

9 Aroclor-1260 CAS #: 11096-82-5									
7.285	7.283	0.002	5019	0.20000	0.21	80.00- 120.00	100.00(aM)M3	GMA 05/25	
7.543	7.541	0.002	7086	0.20000	0.21	124.23- 164.23	141.18		
7.811	7.811	0.000	5211	0.20000	0.20	95.61- 135.61	103.83		
Average of Peak Amounts =			0.20667						

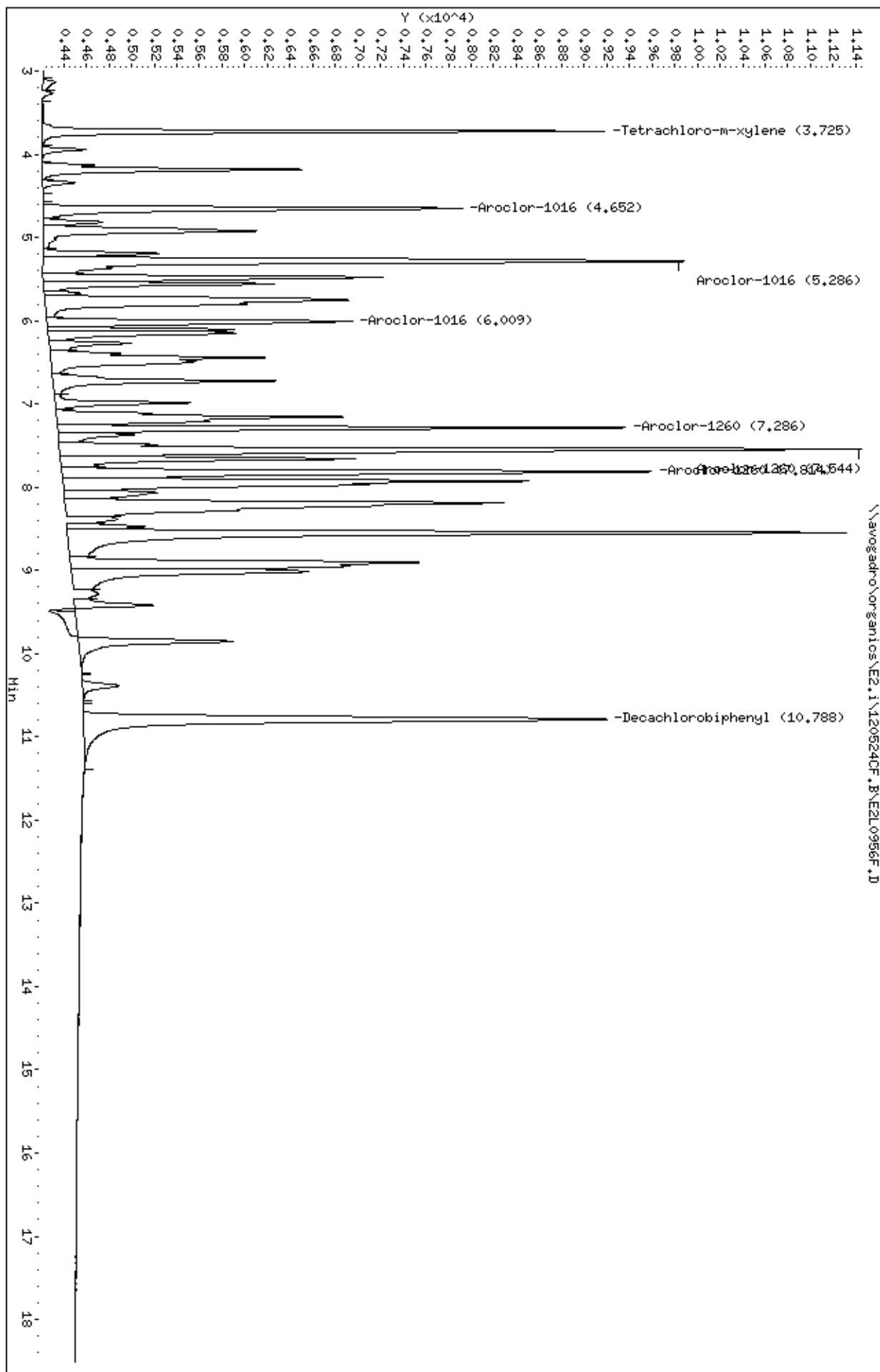
Data File: \\avogadro\organics\E2.i\120524CF.B\E2L0956F.D
Report Date: 25-May-2012 15:56

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\120524CF,B\E2L0956F.D
 Date : 25-MAY-2012 04:43
 Client ID: AR16602R2
 Sample Info: AR16602R2,AR16602R2,,ar1660,sdb,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0956R.D
 Lab Smp Id: AR16602R2 Client Smp ID: AR16602R2
 Inj Date : 25-MAY-2012 04:43
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16602R2,AR16602R2,,ar1660.sub,,
 Misc Info : 1,2,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 04:43 Cal File: E2L0956R.D
 Als bottle: 25 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.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			
4.411	4.409	0.002	3676	0.01000	0.0089			(a)

6 Aroclor-1016					CAS #: 12674-11-2			
5.747	5.743	0.004	2754	0.20000	0.21	80.00-	120.00	100.00(a)
6.325	6.323	0.002	4741	0.20000	0.21	160.71-	200.71	172.15
6.487	6.485	0.002	2441	0.20000	0.21	71.62-	111.62	88.63
Average of Peak Amounts =					0.21000			

\$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
14.634	14.631	0.003	1777	0.02000	0.019			(a)

8 Aroclor-1260					CAS #: 11096-82-5			
8.279	8.276	0.003	3392	0.20000	0.21	80.00-	120.00	100.00(a)
8.523	8.520	0.003	3624	0.20000	0.21	86.95-	126.95	106.84
8.984	8.982	0.002	3095	0.20000	0.20	80.14-	120.14	91.24
Average of Peak Amounts =					0.20667			

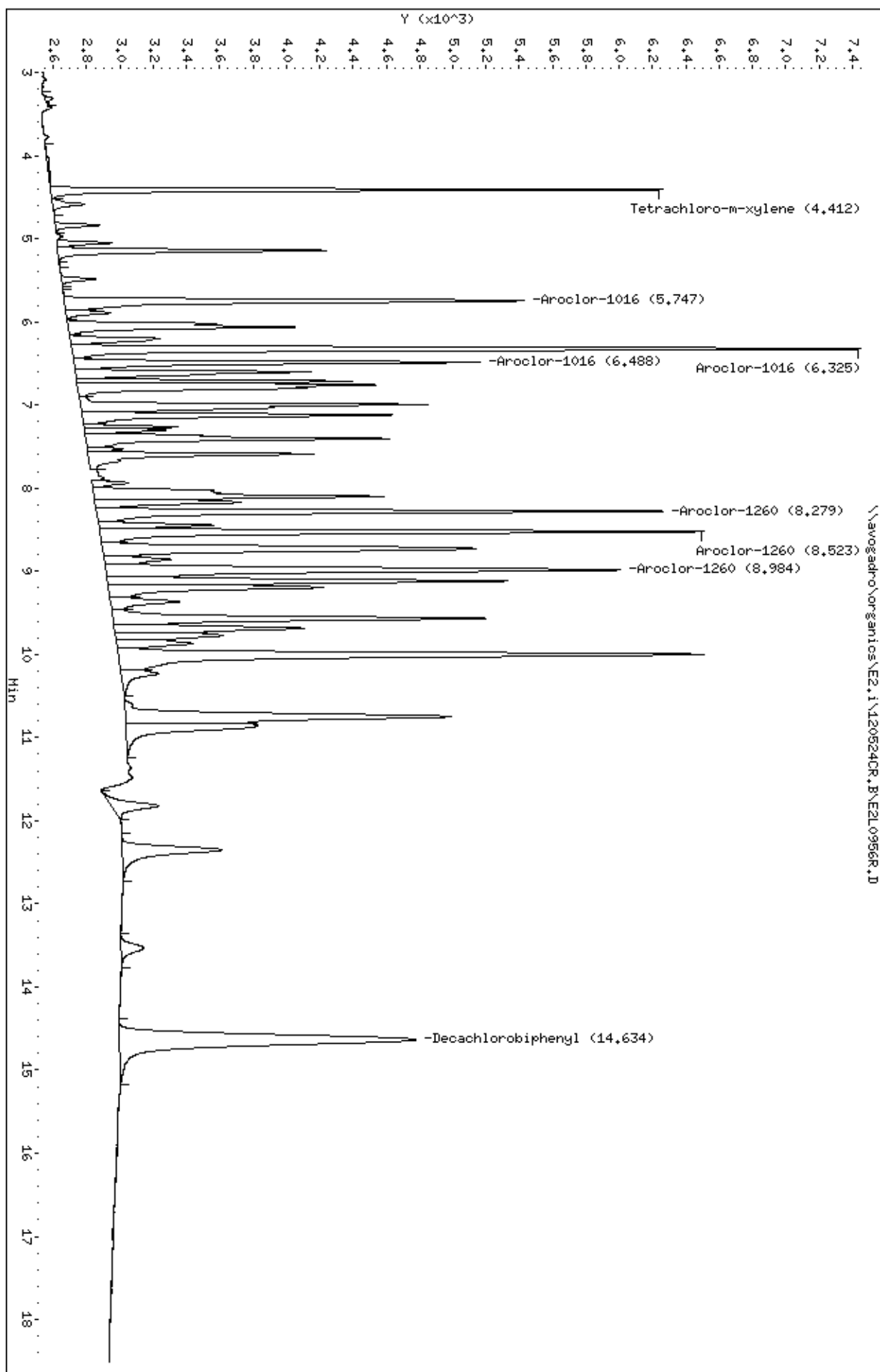
Data File: \\avogadro\organics\E2.i\120524CR.B\E2L0956R.D
Report Date: 25-May-2012 15:57

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0956R.D
 Date : 25-MAY-2012 04:43
 Client ID: AR16602R2
 Sample Info: AR16602R2,AR16602R2,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0957F.D
 Lab Smp Id: AR16603R2 Client Smp ID: AR16603R2
 Inj Date : 25-MAY-2012 05:04
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16603R2,AR16603R2,,ar1660.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 26 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.726	3.724	0.002	11636 0.02000	0.021		(a)

5	Aroclor-1016		CAS #: 12674-11-2			
4.652	4.650	0.002	6675 0.40000	0.38 80.00- 120.00	100.00(a)	
5.287	5.285	0.002	10486 0.40000	0.39 137.28- 177.28	157.09	
6.009	6.007	0.002	4961 0.40000	0.39 53.91- 93.91	74.32	
Average of Peak Amounts =			0.38667			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.788	10.786	0.002	431708 0.04000	0.039		(a)

9	Aroclor-1260		CAS #: 11096-82-5			
7.286	7.283	0.003	9157 0.40000	0.38 80.00- 120.00	100.00(a)	
7.543	7.541	0.002	13537 0.40000	0.39 124.23- 164.23	147.83	
7.813	7.811	0.002	10850 0.40000	0.41 95.61- 135.61	118.49	
Average of Peak Amounts =			0.39333			

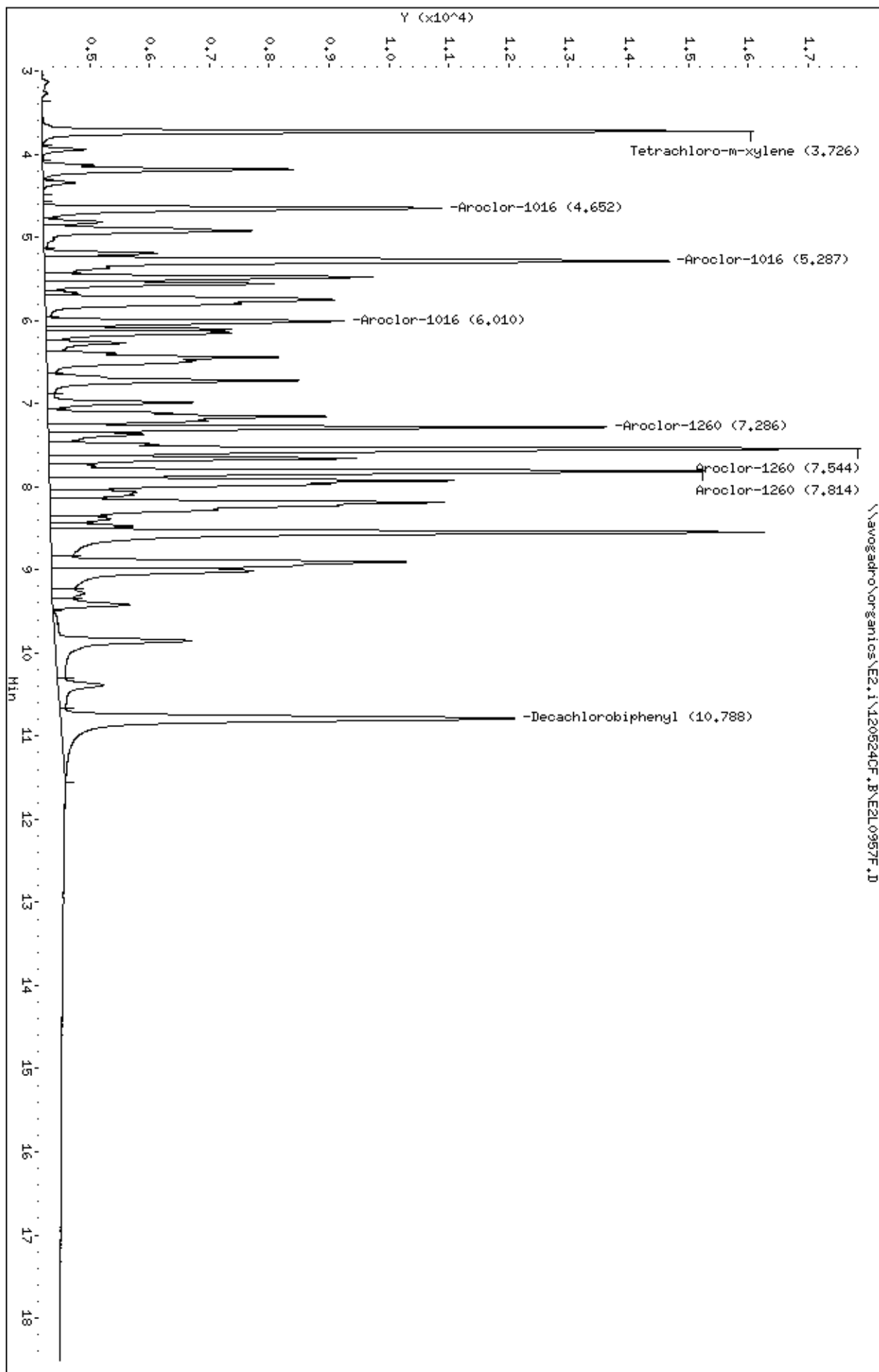
Data File: \\avogadro\organics\E2.i\120524CF.B\E2L0957F.D
Report Date: 25-May-2012 15:56

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0957F.D
 Date : 25-MAY-2012 05:04
 Client ID: AR16603R2
 Sample Info: AR16603R2,AR16603R2,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0957R.D
 Lab Smp Id: AR16603R2 Client Smp ID: AR16603R2
 Inj Date : 25-MAY-2012 05:04
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16603R2,AR16603R2,,ar1660.sub,,
 Misc Info : 1,3,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:04 Cal File: E2L0957R.D
 Als bottle: 26 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.411	4.409	0.002	9205 0.02000	0.021		(a)

6	Aroclor-1016		CAS #: 12674-11-2			
5.746	5.743	0.003	4988 0.40000	0.38	80.00- 120.00	100.00(a)
6.325	6.323	0.002	8951 0.40000	0.39	160.71- 200.71	179.45
6.487	6.485	0.002	4560 0.40000	0.39	71.62- 111.62	91.42
Average of Peak Amounts =			0.38667			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.633	14.631	0.002	2878 0.04000	0.037		(a)

8	Aroclor-1260		CAS #: 11096-82-5			
8.279	8.276	0.003	6267 0.40000	0.38	80.00- 120.00	100.00(a)
8.523	8.520	0.003	6760 0.40000	0.39	86.95- 126.95	107.87
8.985	8.982	0.003	6370 0.40000	0.41	80.14- 120.14	101.64
Average of Peak Amounts =			0.39333			

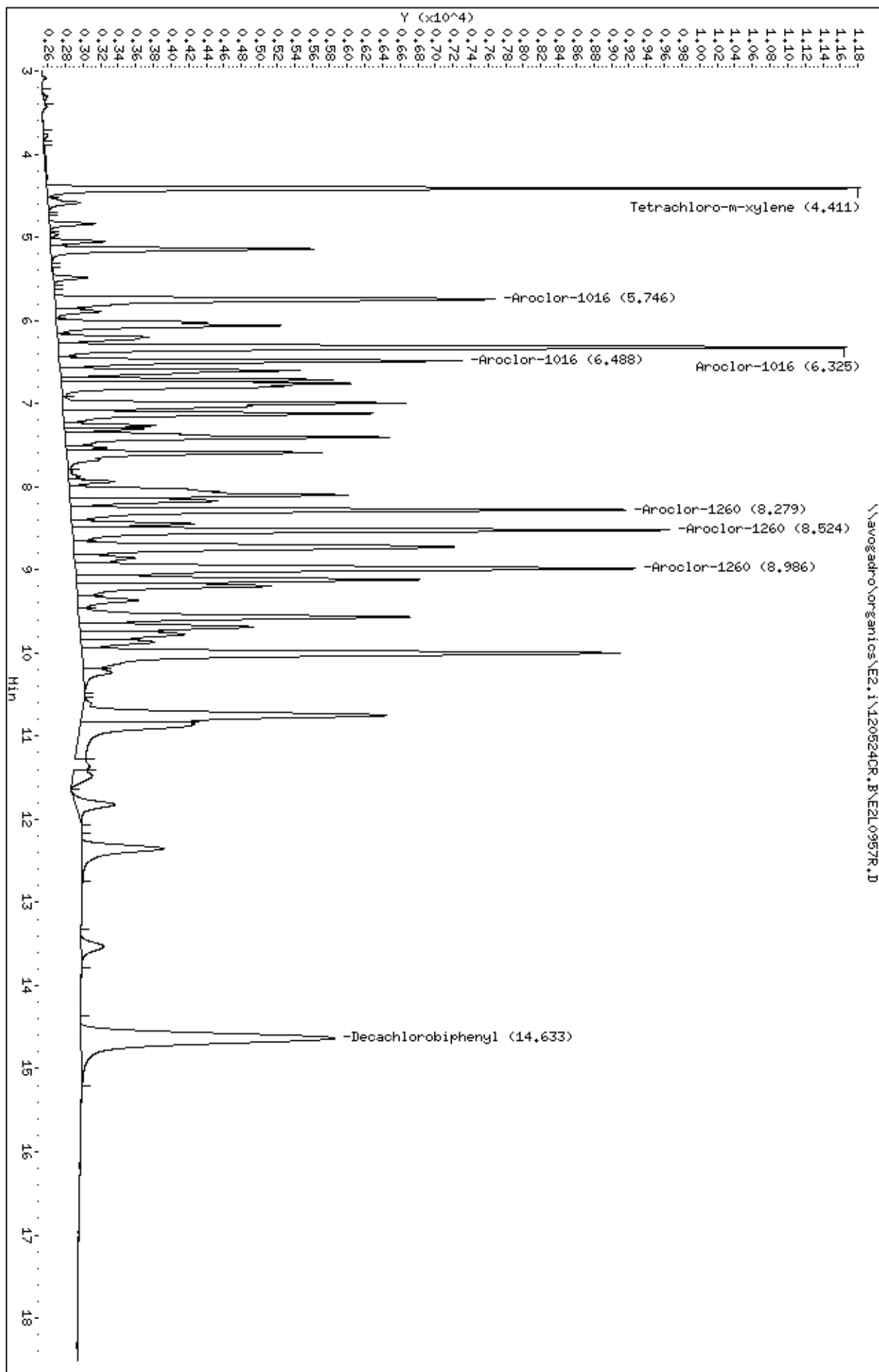
Data File: \\avogadro\organics\E2.i\120524CR.B\E2L0957R.D
Report Date: 25-May-2012 15:57

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0957R.D
 Date : 25-MAY-2012 05:04
 Client ID: AR16603R2
 Sample Info: AR16603R2,AR16603R2,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0958F.D
 Lab Smp Id: AR16604R2 Client Smp ID: AR16604R2
 Inj Date : 25-MAY-2012 05:25
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16604R2,AR16604R2,,ar1660.sub,,
 Misc Info : 1,4,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 27 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.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			
3.724	3.724	0.000	23803	0.04000	0.043			(a)

5 Aroclor-1016					CAS #: 12674-11-2			
4.650	4.650	0.000	12055	0.80000	0.69	80.00-	120.00	100.00(a)
5.286	5.285	0.001	19501	0.80000	0.72	137.28-	177.28	161.77
6.008	6.007	0.001	9063	0.80000	0.71	53.91-	93.91	75.18
Average of Peak Amounts =					0.70667			

\$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
10.788	10.786	0.002	819768	0.08000	0.073			

9 Aroclor-1260					CAS #: 11096-82-5			
7.284	7.283	0.001	17033	0.80000	0.71	80.00-	120.00	100.00(a)
7.542	7.541	0.001	24552	0.80000	0.72	124.23-	164.23	144.14
7.812	7.811	0.001	20732	0.80000	0.78	95.61-	135.61	121.72
Average of Peak Amounts =					0.73667			

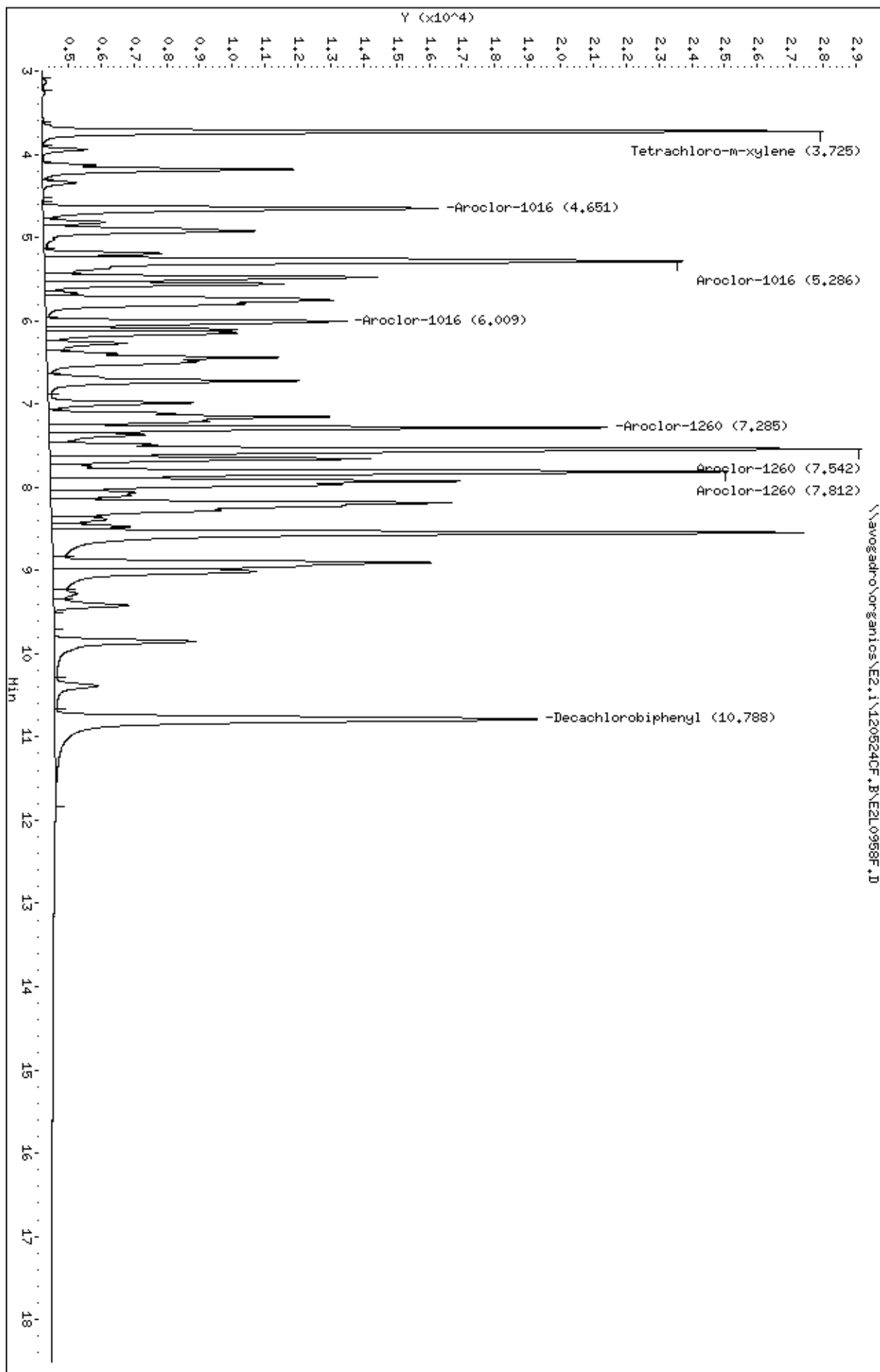
Data File: \\avogadro\organics\E2.i\120524CF.B\E2L0958F.D
Report Date: 25-May-2012 15:56

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0958F.D
 Date : 25-MAY-2012 05:25
 Client ID: AR16604R2
 Sample Info: AR16604R2,AR16604R2,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0958R.D
 Lab Smp Id: AR16604R2 Client Smp ID: AR16604R2
 Inj Date : 25-MAY-2012 05:25
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16604R2,AR16604R2,,ar1660.sub,,
 Misc Info : 1,4,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
 Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:25 Cal File: E2L0958R.D
 Als bottle: 27 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.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)	(	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.409	4.409	0.000	18920	0.04000	0.044		(a)

6 Aroclor-1016					CAS #: 12674-11-2		
5.744	5.743	0.001	9065	0.80000	0.69	80.00- 120.00	100.00(a)
6.324	6.323	0.001	17061	0.80000	0.74	160.71- 200.71	188.21
6.486	6.485	0.001	8604	0.80000	0.73	71.62- 111.62	94.91
Average of Peak Amounts =					0.72000		

\$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
14.635	14.631	0.004	5520	0.08000	0.071		

8 Aroclor-1260					CAS #: 11096-82-5		
8.277	8.276	0.001	11803	0.80000	0.72	80.00- 120.00	100.00(a)
8.521	8.520	0.001	12883	0.80000	0.74	86.95- 126.95	109.15
8.983	8.982	0.001	12425	0.80000	0.79	80.14- 120.14	105.27
Average of Peak Amounts =					0.75000		

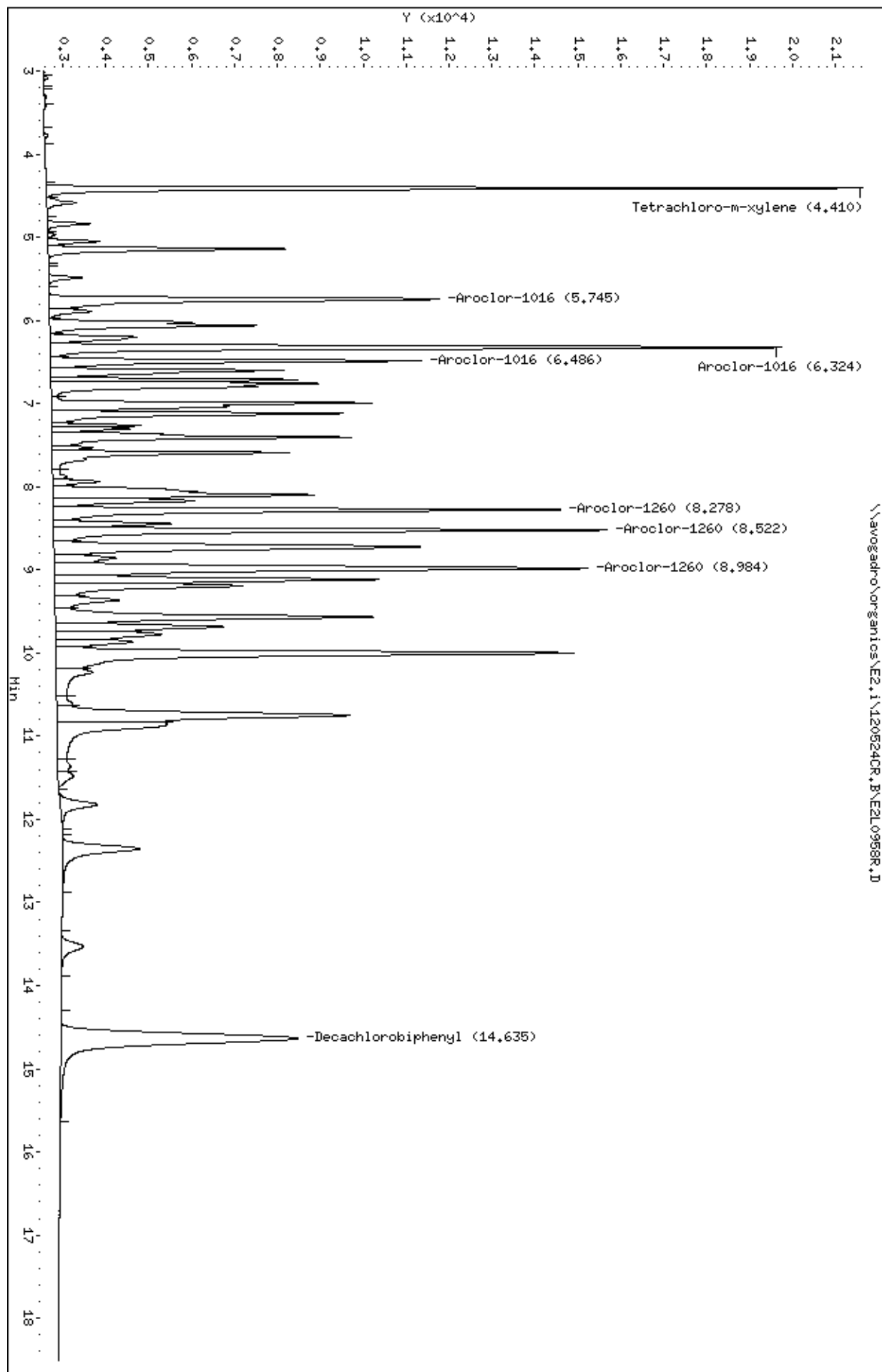
Data File: \\avogadro\organics\E2.i\120524CR.B\E2L0958R.D
Report Date: 25-May-2012 15:57

QC Flag Legend

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

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0958R.D
Date : 25-MAY-2012 05:25
Client ID: AR16604R2
Sample Info: AR16604R2,AR16604R2,,ar1660,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CF.B\E2L0959F.D
 Lab Smp Id: AR16605R2 Client Smp ID: AR16605R2
 Inj Date : 25-MAY-2012 05:46
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16605R2,AR16605R2,,ar1660.sub,,
 Misc Info : 1,5,,1
 Comment :
 Method : \\avogadro\organics\E2.i\120524CF.B\E2_LL_PCB_F.m
 Meth Date : 25-May-2012 09:35 gappolonia Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 28 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ar1660.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
=====	=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.724	3.724	0.000	46655	0.08000	0.085		

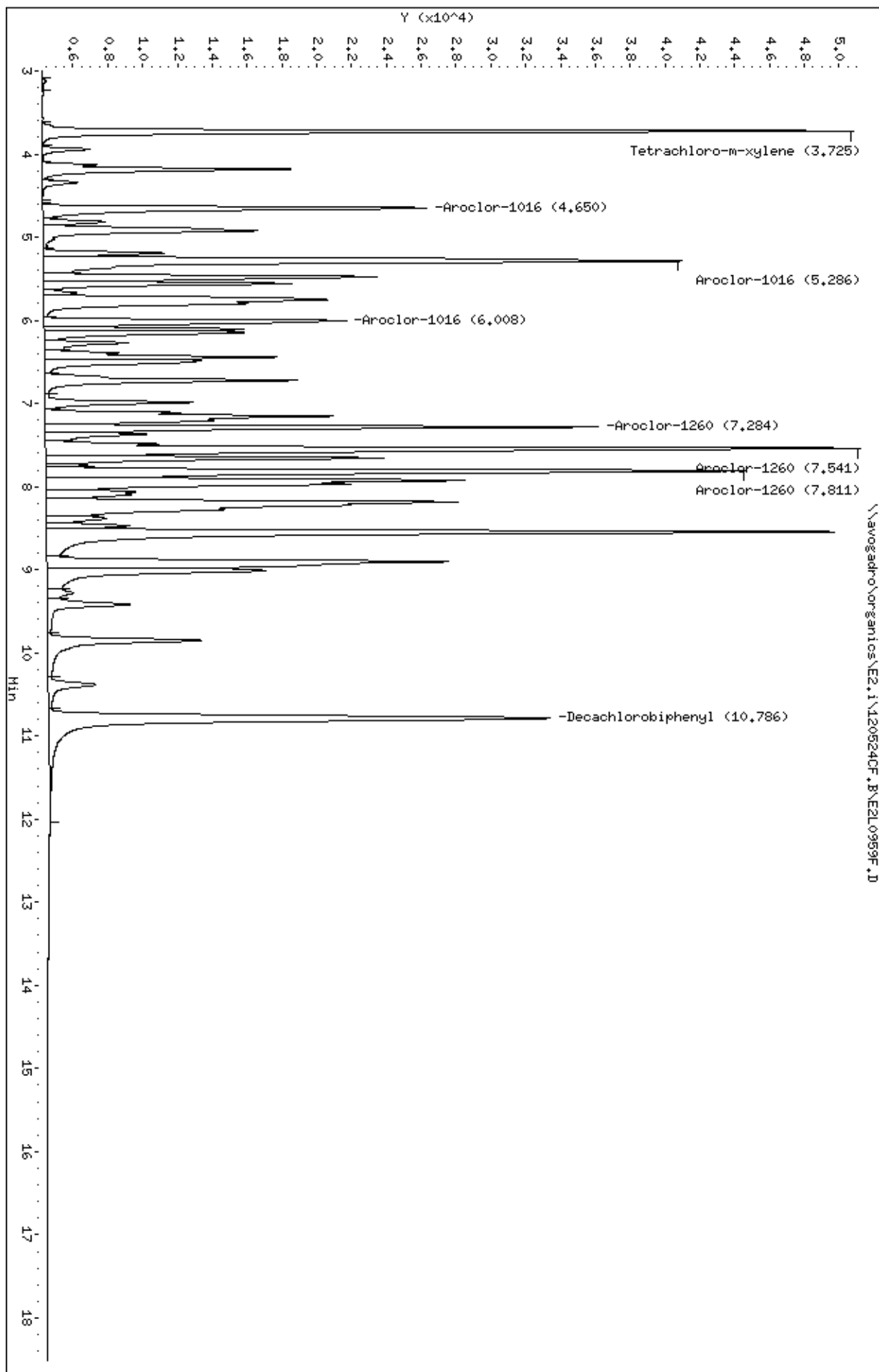
5 Aroclor-1016					CAS #: 12674-11-2		
4.650	4.650	0.000	22076	1.60000	1.3	80.00-	120.00
5.285	5.285	0.000	36737	1.60000	1.4	137.28-	177.28
6.007	6.007	0.000	17077	1.60000	1.3	53.91-	93.91
Average of Peak Amounts =					1.33333		

\$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
10.786	10.786	0.000	1638946	0.16000	0.15		

9 Aroclor-1260					CAS #: 11096-82-5		
7.283	7.283	0.000	31751	1.60000	1.3	80.00-	120.00
7.541	7.541	0.000	46133	1.60000	1.3	124.23-	164.23
7.811	7.811	0.000	40275	1.60000	1.5	95.61-	135.61
Average of Peak Amounts =					1.36667		

Data File: \\avogadro\organics\E2,i\120524CF,B\E2L0959F.D
 Date : 25-MAY-2012 05:46
 Client ID: AR16605R2
 Sample Info: AR16605R2,AR16605R2,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPrest

Instrument: E2,i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\avogadro\organics\E2.i\120524CR.B\E2L0959R.D
Lab Smp Id: AR16605R2 Client Smp ID: AR16605R2
Inj Date : 25-MAY-2012 05:46
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16605R2,AR16605R2,,ar1660.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\120524CR.B\E2_LL_PCB_R.m
Meth Date : 25-May-2012 09:40 gappolonia Quant Type: ESTD
Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
4.409	4.409	0.000	37916	0.08000	0.089	

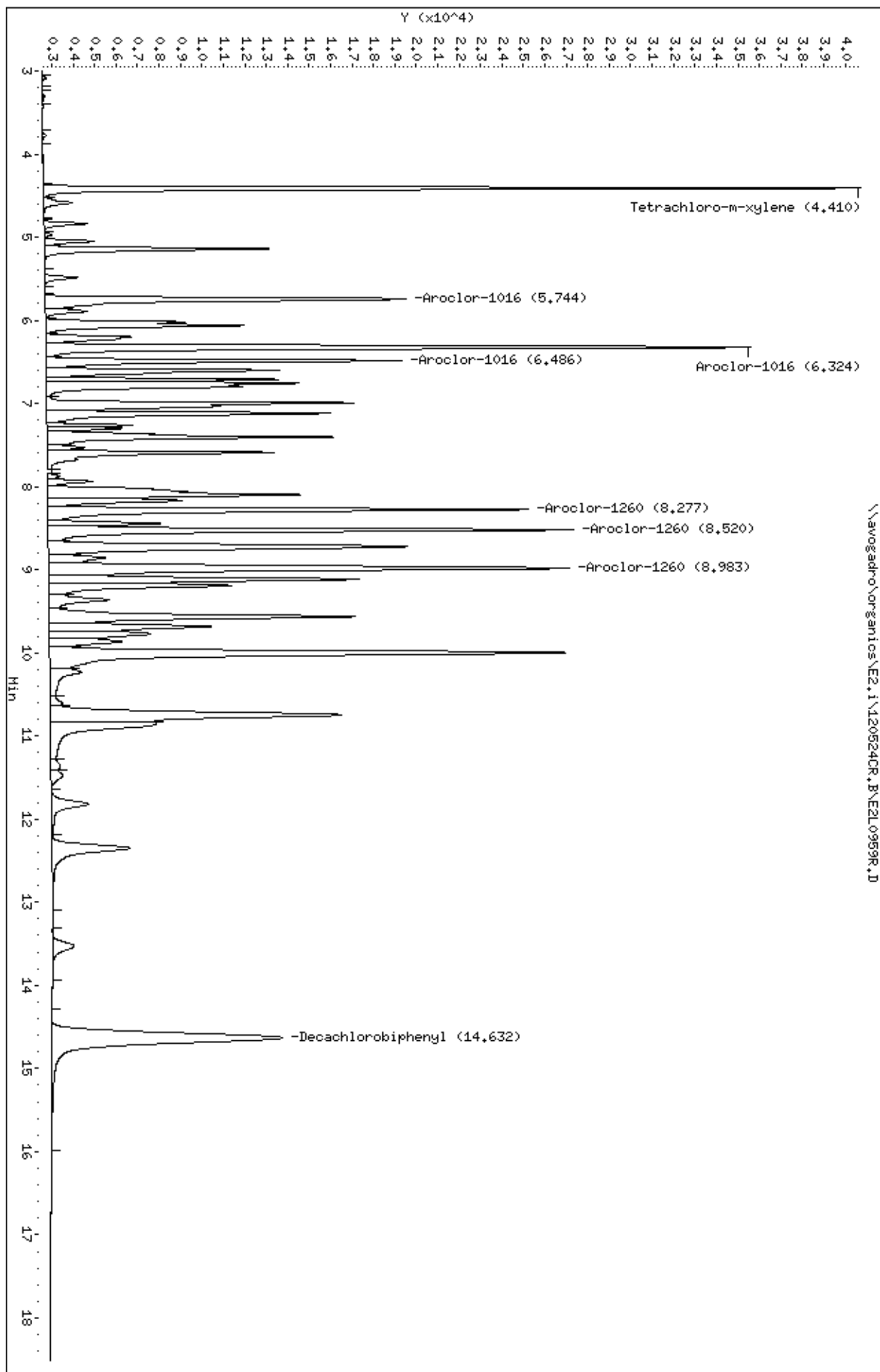
6	Aroclor-1016		CAS #: 12674-11-2			
5.743	5.743	0.000	16771	1.60000	1.3 80.00- 120.00	100.00
6.323	6.323	0.000	32963	1.60000	1.4 160.71- 200.71	196.55
6.485	6.485	0.000	16568	1.60000	1.4 71.62- 111.62	98.79
Average of Peak Amounts =			1.36667			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
14.631	14.631	0.000	10784	0.16000	0.14	

8	Aroclor-1260		CAS #: 11096-82-5			
8.276	8.276	0.000	22337	1.60000	1.4 80.00- 120.00	100.00
8.520	8.520	0.000	24462	1.60000	1.4 86.95- 126.95	109.51
8.982	8.982	0.000	24321	1.60000	1.6 80.14- 120.14	108.88
Average of Peak Amounts =			1.46667			

Data File: \\avogadro\organics\E2,i\120524CR,B\E2L0959R.D
Date : 25-MAY-2012 05:46
Client ID: AR16605R2
Sample Info: AR16605R2,AR16605R2,,ar1660,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2,i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618F.B\E2L1429F.D
 Lab Smp Id: AR16603RE Client Smp ID: AR16603RE
 Inj Date : 18-JUN-2012 15:22
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16603RE, AR16603RE, , ar1660.sub, ,
 Misc Info : 2,3,,1
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618F.B\E2_LL_PCB_F.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.730	3.724	0.006	12277 0.02000	0.022		(a)

5	Aroclor-1016		CAS #: 12674-11-2			
4.656	4.650	0.006	6934 0.40000	0.40	80.00- 120.00	100.00(a)
5.291	5.285	0.006	11022 0.40000	0.41	140.49- 180.49	158.96
6.012	6.007	0.005	5264 0.40000	0.41	57.67- 97.67	75.92
Average of Peak Amounts =			0.40667			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.789	10.786	0.003	411741 0.04000	0.037		(a)

9	Aroclor-1260		CAS #: 11096-82-5			
7.287	7.283	0.004	10220 0.40000	0.43	80.00- 120.00	100.00(a)
7.544	7.541	0.003	15565 0.40000	0.45	129.82- 169.82	152.30
7.814	7.811	0.003	13064 0.40000	0.49	105.65- 145.65	127.83
Average of Peak Amounts =			0.45667			

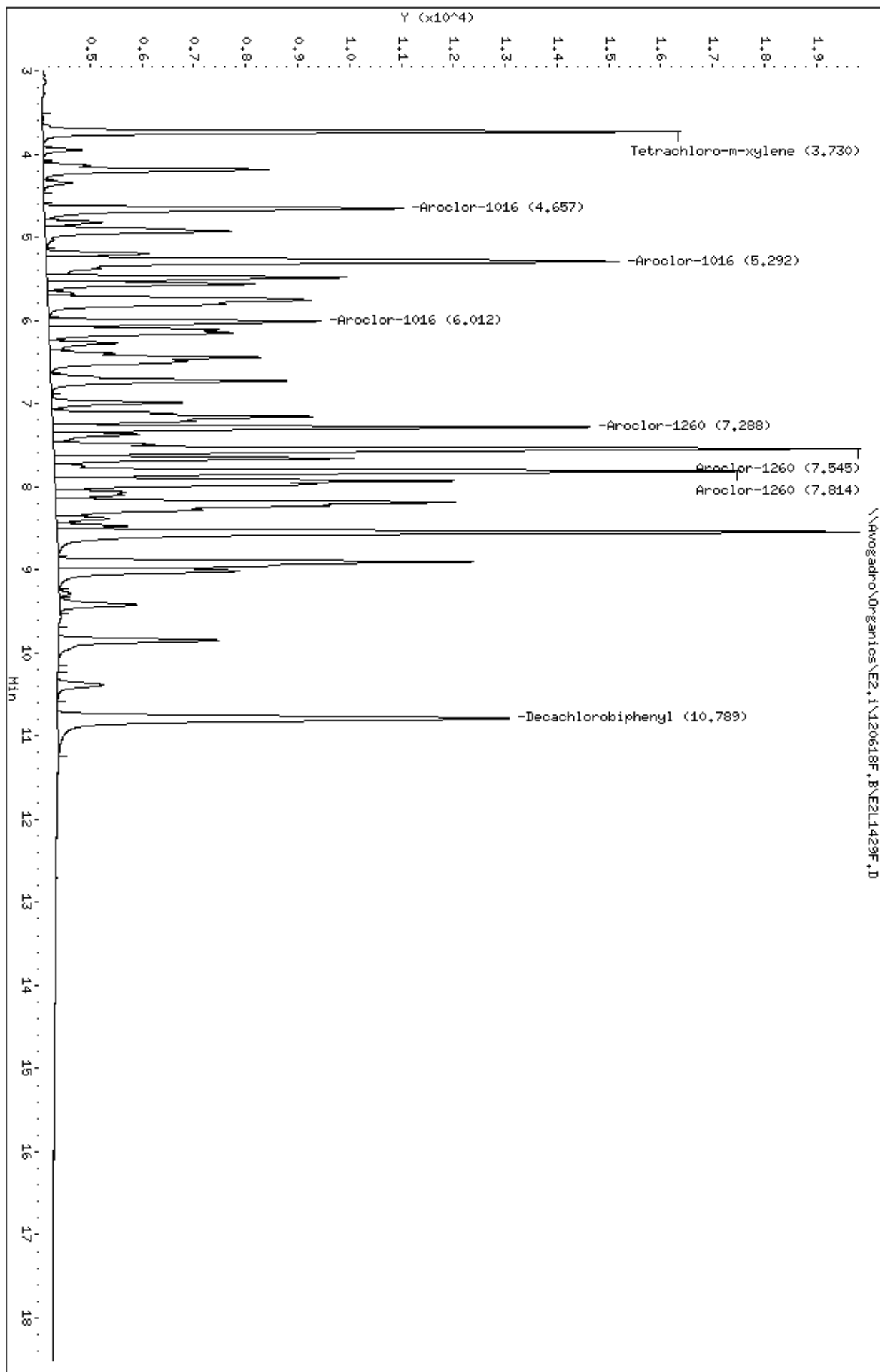
Data File: \\Avogadro\Organics\E2.i\120618F.B\E2L1429F.D
Report Date: 20-Jun-2012 10:17

QC Flag Legend

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

Data File: \\Avogadro\Organics\E2.i\120618F.B\E2L1429F.D
Date : 18-JUN-2012 15:22
Client ID: AR16603RE
Sample Info: AR16603RE,AR16603RE,,ar1660,sub,,
Volume Injected (uL): 1.0
Column phase: CLPrest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618R.B\E2L1429R.D
Lab Smp Id: AR16603RE Client Smp ID: AR16603RE
Inj Date : 18-JUN-2012 15:22
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16603RE, AR16603RE, , ar1660.sub, ,
Misc Info : 2,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\120618R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
4.415	4.409	0.006	8971 0.02000	0.021		(a)

6 Aroclor-1016 CAS #: 12674-11-2						
5.748	5.743	0.005	4931 0.40000	0.38	80.00- 120.00	100.00(a)
6.326	6.323	0.003	8997 0.40000	0.39	161.61- 201.61	182.46
6.488	6.485	0.003	4574 0.40000	0.39	70.77- 110.77	92.76
Average of Peak Amounts =			0.38667			

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
14.633	14.631	0.002	3394 0.04000	0.044		(a)

8 Aroclor-1260 CAS #: 11096-82-5						
8.279	8.276	0.003	6830 0.40000	0.42	80.00- 120.00	100.00(a)
8.523	8.520	0.003	7670 0.40000	0.44	91.43- 131.43	112.30
8.984	8.982	0.002	7503 0.40000	0.48	88.64- 128.64	109.85
Average of Peak Amounts =			0.44667			

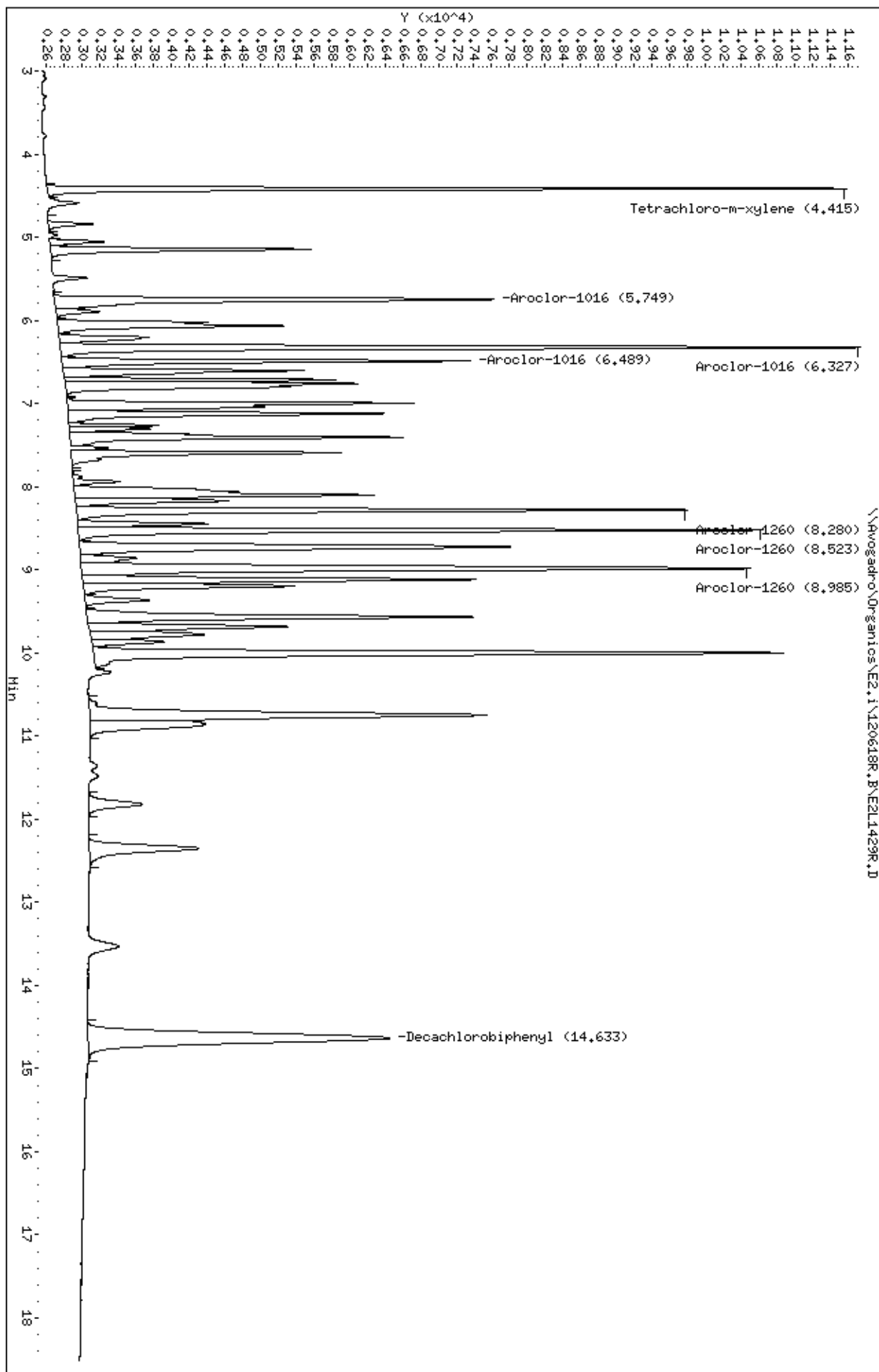
Data File: \\Avogadro\Organics\E2.i\120618R.B\E2L1429R.D
Report Date: 20-Jun-2012 10:18

QC Flag Legend

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

Data File: \\Avogadro\Organics\E2.i\120618R.B\E2L1429R.D
 Date : 18-JUN-2012 15:22
 Client ID: AR16603RE
 Sample Info: AR16603RE,AR16603RE,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618F.B\E2L1446F.D
 Lab Smp Id: AR16603RF Client Smp ID: AR16603RF
 Inj Date : 18-JUN-2012 21:17
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16603RF,AR16603RF,,ar1660.sub,,
 Misc Info : 2,3,,1
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618F.B\E2_LL_PCB_F.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
=====						
\$ 1	Tetrachloro-m-xylene		CAS #: 877-09-8			
3.730	3.724	0.006	11137 0.02000	0.020		(a)

5	Aroclor-1016		CAS #: 12674-11-2			
4.657	4.650	0.007	6302 0.40000	0.36 80.00- 120.00	100.00(a)	
5.292	5.285	0.007	10114 0.40000	0.37 140.49- 180.49	160.49	
6.012	6.007	0.005	4895 0.40000	0.38 57.67- 97.67	77.67	
Average of Peak Amounts =			0.37000			

\$ 11	Decachlorobiphenyl		CAS #: 2051-24-3			
10.792	10.786	0.006	378684 0.04000	0.034		(a)

9	Aroclor-1260		CAS #: 11096-82-5			
7.288	7.283	0.005	9334 0.40000	0.39 80.00- 120.00	100.00(a)	
7.545	7.541	0.004	13984 0.40000	0.41 129.82- 169.82	149.82	
7.814	7.811	0.003	11728 0.40000	0.44 105.65- 145.65	125.65	
Average of Peak Amounts =			0.41333			

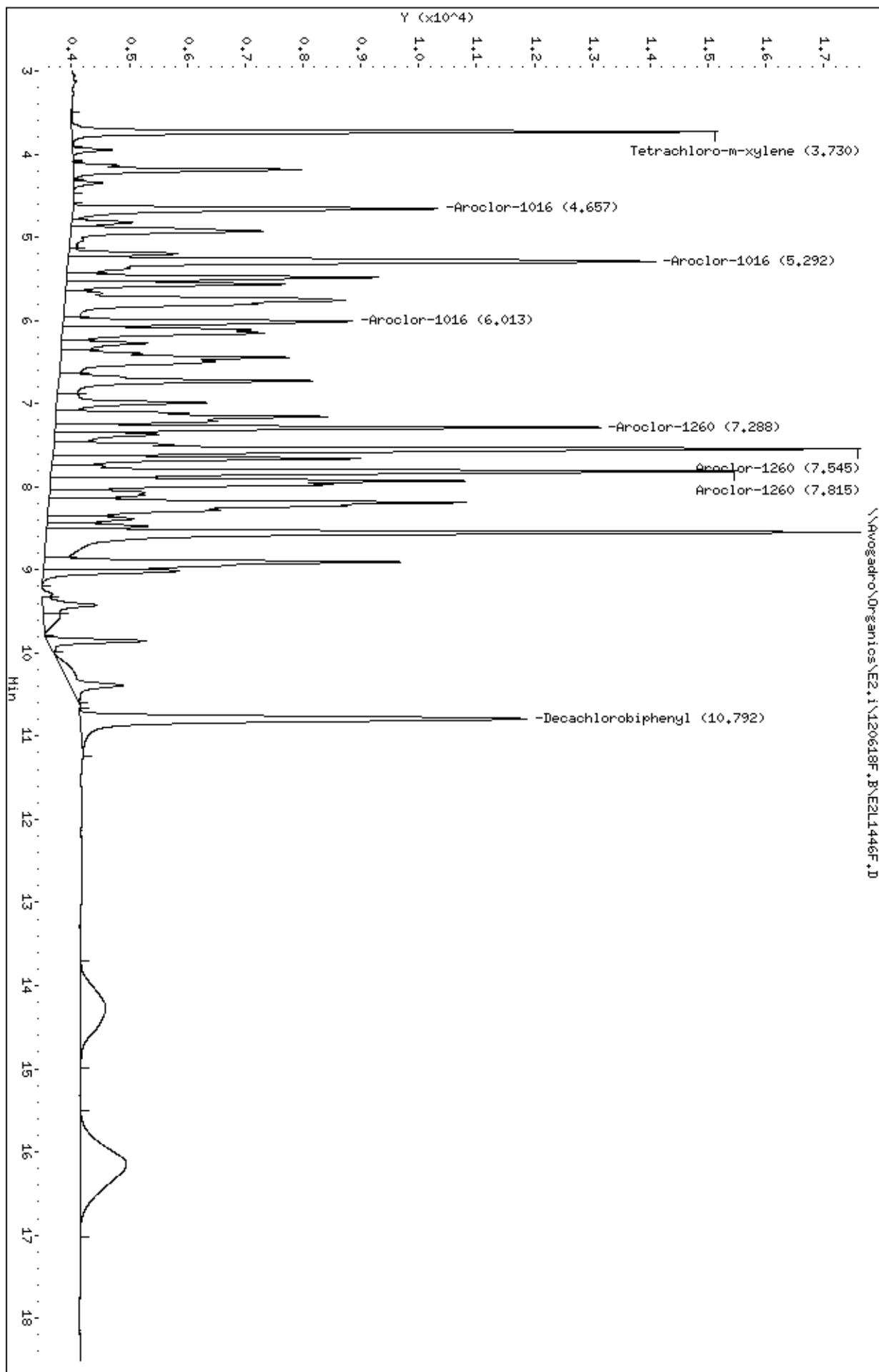
Data File: \\Avogadro\Organics\E2.i\120618F.B\E2L1446F.D
Report Date: 20-Jun-2012 10:17

QC Flag Legend

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

Data File: \\Avogadro\Organics\E2.i\120618F.B\E2L1446F.D
 Date : 18-JUN-2012 21:17
 Client ID: AR16603RF
 Sample Info: AR16603RF,AR16603RF,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPest

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618R.B\E2L1446R.D
 Lab Smp Id: AR16603RF Client Smp ID: AR16603RF
 Inj Date : 18-JUN-2012 21:17
 Operator : DL SRC: DL Inst ID: E2.i
 Smp Info : AR16603RF,AR16603RF,,ar1660.sub,,
 Misc Info : 2,3,,1
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618R.B\E2_LL_PCB_R.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.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			
4.415	4.409	0.006	8084	0.02000	0.019			(a)

6 Aroclor-1016					CAS #: 12674-11-2			
5.749	5.743	0.006	4507	0.40000	0.34	80.00-	120.00	100.00(a)
6.327	6.323	0.004	8185	0.40000	0.36	161.61-	201.61	181.61
6.489	6.485	0.004	4091	0.40000	0.35	70.77-	110.77	90.77
Average of Peak Amounts =					0.35000			

\$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
14.640	14.631	0.009	3112	0.04000	0.040			(a)

8 Aroclor-1260					CAS #: 11096-82-5			
8.281	8.276	0.005	6054	0.40000	0.37	80.00-	120.00	100.00(a)
8.525	8.520	0.005	6746	0.40000	0.38	91.43-	131.43	111.43
8.986	8.982	0.004	6577	0.40000	0.42	88.64-	128.64	108.64
Average of Peak Amounts =					0.39000			

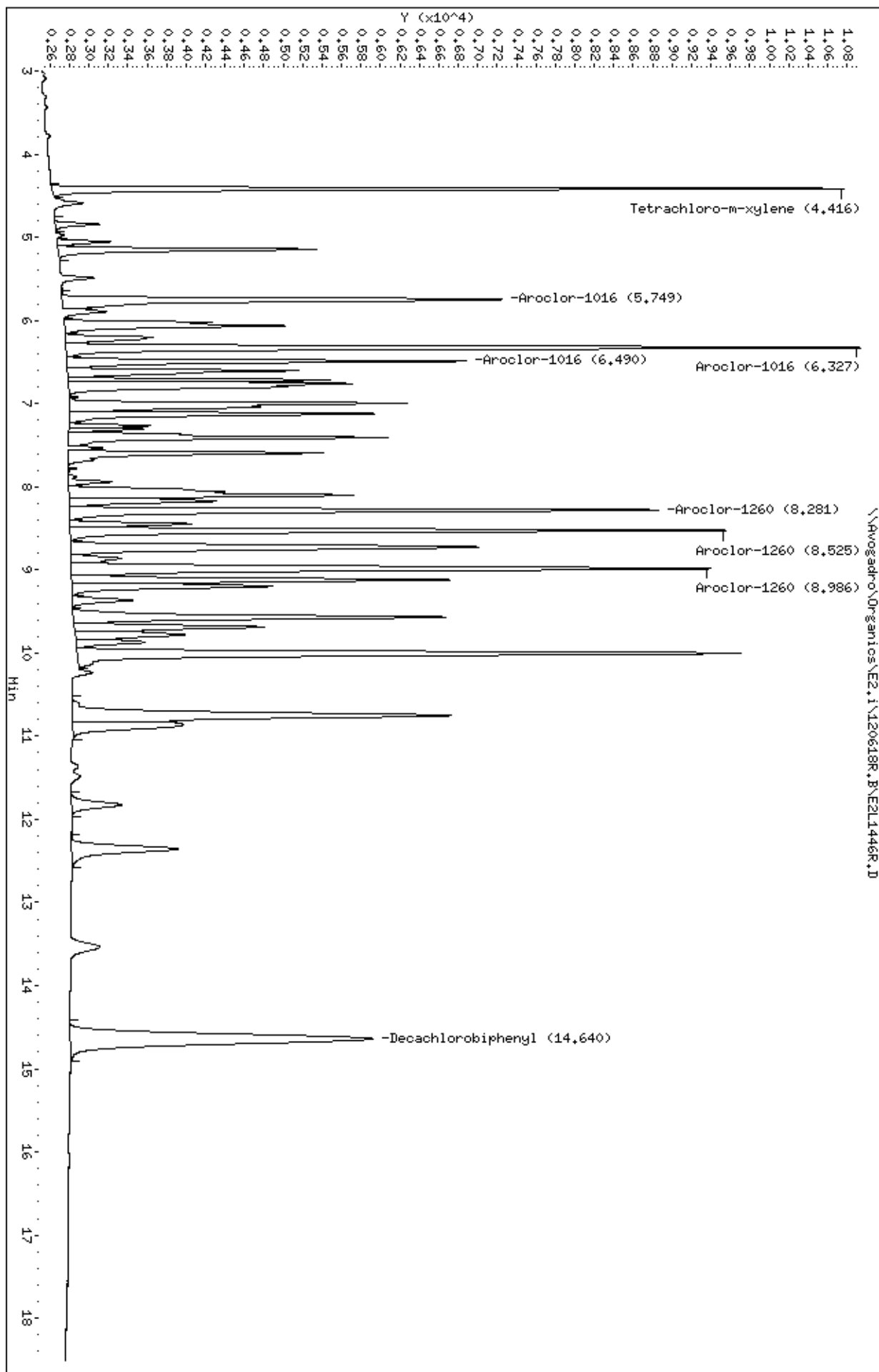
Data File: \\Avogadro\Organics\E2.i\120618R.B\E2L1446R.D
Report Date: 20-Jun-2012 10:18

QC Flag Legend

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

Data File: \\Avogadro\Organics\E2.i\120618R.B\E2L1446R.D
 Date : 18-JUN-2012 21:17
 Client ID: AR16603RF
 Sample Info: AR16603RF,AR16603RF,,ar1660,sub,,
 Volume Injected (uL): 1.0
 Column phase: CLPestII

Instrument: E2.i
 Operator: DL SRC: DL
 Column diameter: 0.32



1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66785

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66785

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E2L1437F.D/E2L1437R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	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

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618F.B\E2L1437F.D
 Lab Smp Id: MB-66785 Client Smp ID: MB-66785
 Inj Date : 18-JUN-2012 18:09
 Operator : DL SRC: LIMS Inst ID: E2.i
 Smp Info : MB-66785,MB-66785,66785,8082A.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618F.B\E2_LL_PCB_F.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 20 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

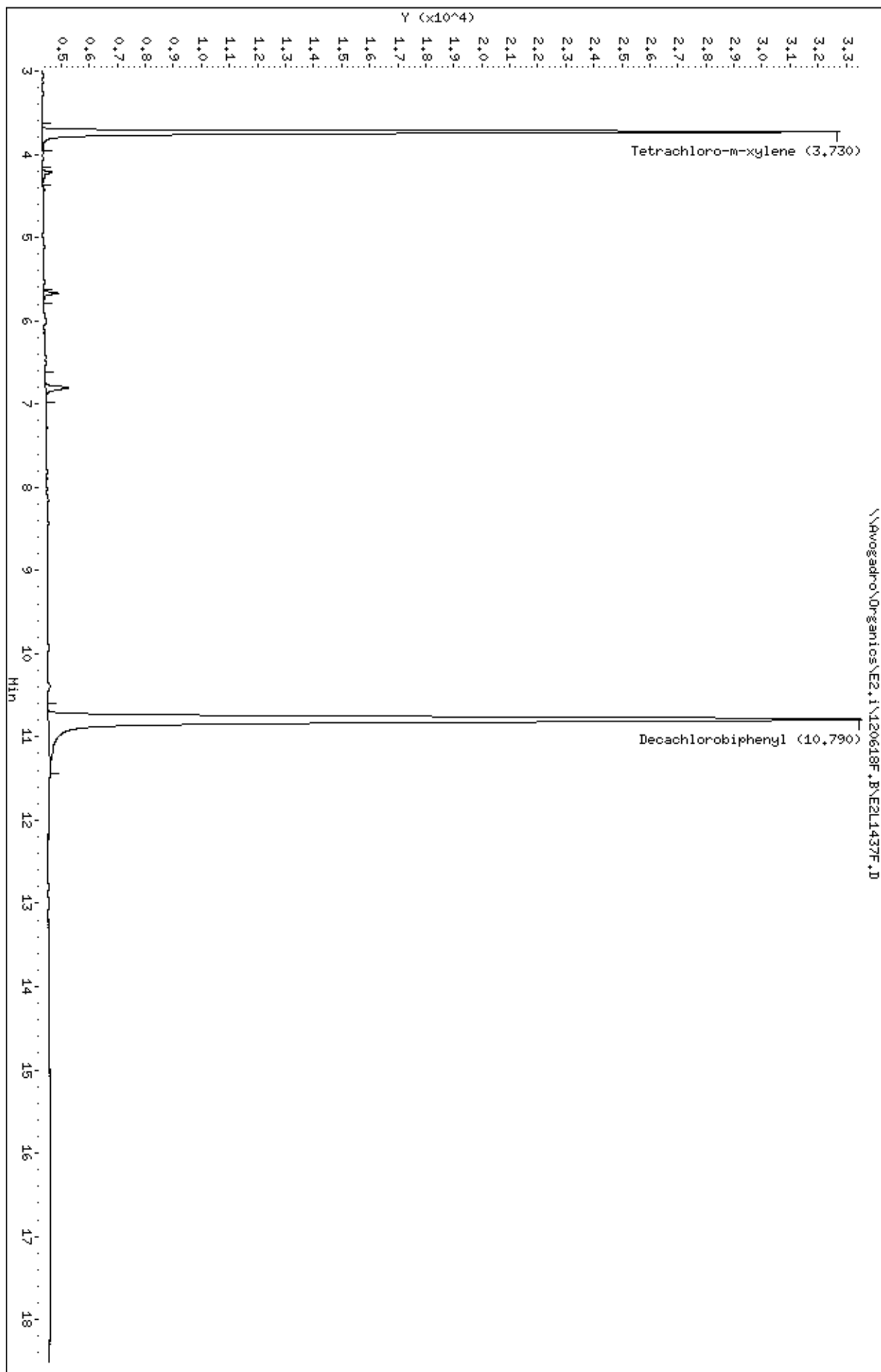
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (	ng)	(ug/Kg)	=====
\$ 1	Tetrachloro-m-xylene			CAS #: 877-09-8		
3.729	3.724	0.005	28307	0.05164	17	

\$ 11	Decachlorobiphenyl			CAS #: 2051-24-3		
10.789	10.786	0.003	1406329	0.12597	42	

Data File: \\Avogadro\Organics\E2.i\120618F.B\E2L1437F.D
Date : 18-JUN-2012 18:09
Client ID: MB-66785
Sample Info: MB-66785,MB-66785,66785,8082A.sub.,
Volume Injected (uL): 1.0
Column phase: CLPrest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618R.B\E2L1437R.D
 Lab Smp Id: MB-66785 Client Smp ID: MB-66785
 Inj Date : 18-JUN-2012 18:09
 Operator : DL SRC: LIMS Inst ID: E2.i
 Smp Info : MB-66785,MB-66785,66785,8082A.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618R.B\E2_LL_PCB_R.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.D
 Als bottle: 20 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

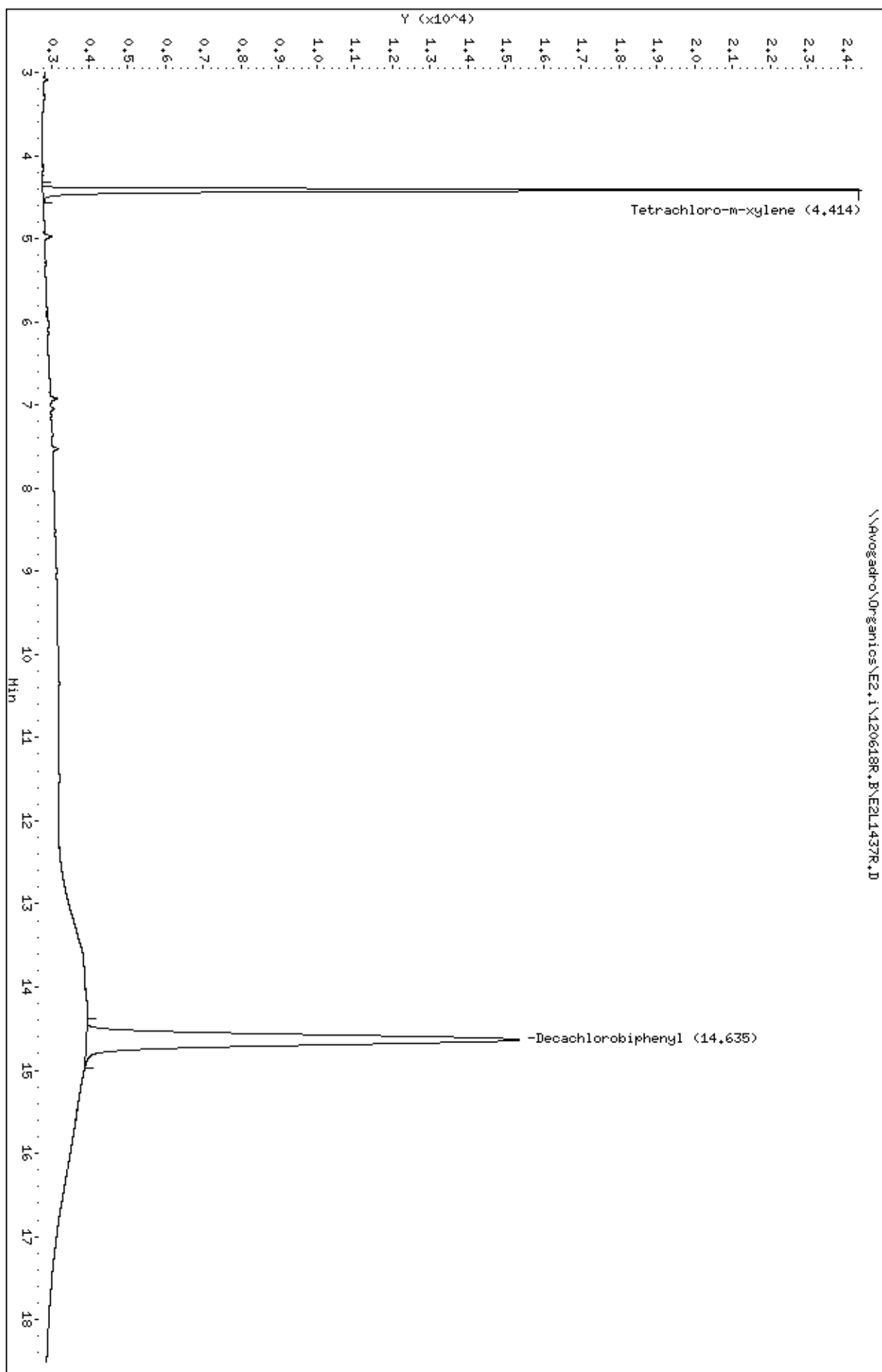
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	RESPONSE (ng)	(ug/Kg)	=====	=====
\$ 1	Tetrachloro-m-xylene			CAS #: 877-09-8		
4.413	4.409	0.004	21529 0.05068	17		

\$ 11	Decachlorobiphenyl			CAS #: 2051-24-3		
14.634	14.631	0.003	11436 0.14699	49		

Data File: \\Avogadro\Organics\E2.i\120618R.B\E2L1437R.D
Date : 18-JUN-2012 18:09
Client ID: MB-66785
Sample Info: MB-66785,MB-66785,66785,8082A,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66785(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-66785

Sample wt/vol: 30 (g/mL) G Lab File ID: E2L1438F.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	Q
12674-11-2	Aroclor-1016	130	
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	140	

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66785(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-66785

Sample wt/vol: 30 (g/mL) G Lab File ID: E2L1438R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	Q
12674-11-2	Aroclor-1016	130	
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	140	

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618F.B\E2L1438F.D
 Lab Smp Id: LCS-66785 Client Smp ID: LCS-66785
 Inj Date : 18-JUN-2012 18:30
 Operator : DL SRC: LIMS Inst ID: E2.i
 Smp Info : LCS-66785, LCS-66785, 66785, 8082A.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618F.B\E2_LL_PCB_F.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 21 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	ON-COL RESPONSE (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
3.729	3.724	0.005	26474 0.04830	16		

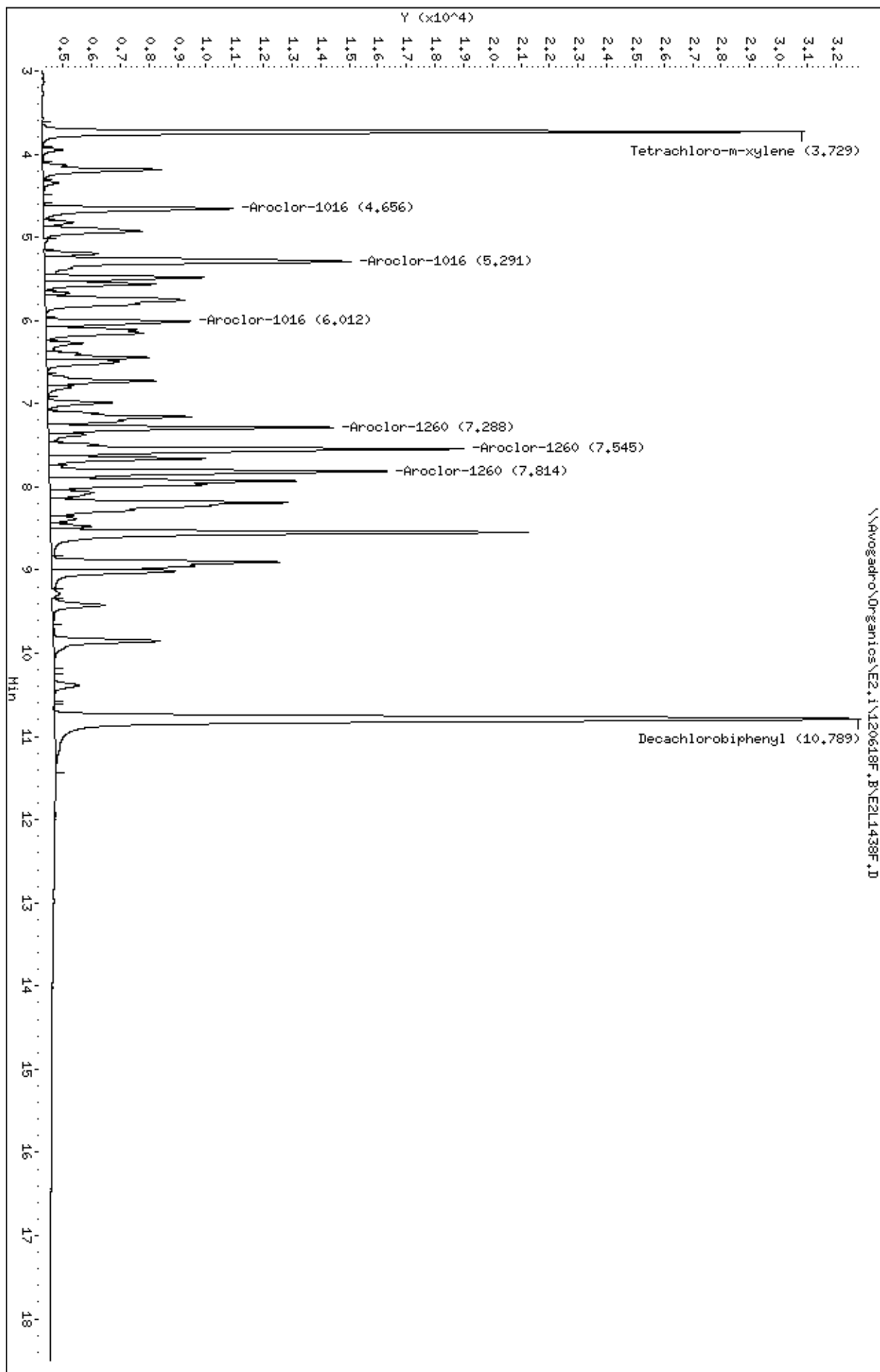
5 Aroclor-1016 CAS #: 12674-11-2						
4.655	4.650	0.005	6634 0.38021	130	80.00- 120.00	100.00
5.290	5.285	0.005	10720 0.39637	130	140.49- 180.49	161.59
6.011	6.007	0.004	5073 0.39895	130	57.67- 97.67	76.47
Average of Peak Concentrations =				130		

9 Aroclor-1260 CAS #: 11096-82-5						
7.287	7.283	0.004	9825 0.40954	140	80.00- 120.00	100.00
7.544	7.541	0.003	14480 0.42235	140	129.82- 169.82	147.38
7.814	7.811	0.003	11674 0.44193	150	105.65- 145.65	118.82
Average of Peak Concentrations =				140		

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
10.789	10.786	0.003	1366627 0.12242	41		

Data File: \\Avogadro\Organics\E2.i\120618F.B\E2L1438F.D
Date : 18-JUN-2012 18:30
Client ID: LCS-66785
Sample Info: LCS-66785,LCS-66785,66785,80824,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618R.B\E2L1438R.D
Lab Smp Id: LCS-66785 Client Smp ID: LCS-66785
Inj Date : 18-JUN-2012 18:30
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : LCS-66785, LCS-66785, 66785, 8082A.sub,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\E2.i\120618R.B\E2_LL_PCB_R.m
Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.D
Als bottle: 21 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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	ON-COL RESPONSE (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
4.413	4.409	0.004	20149 0.04743	16		

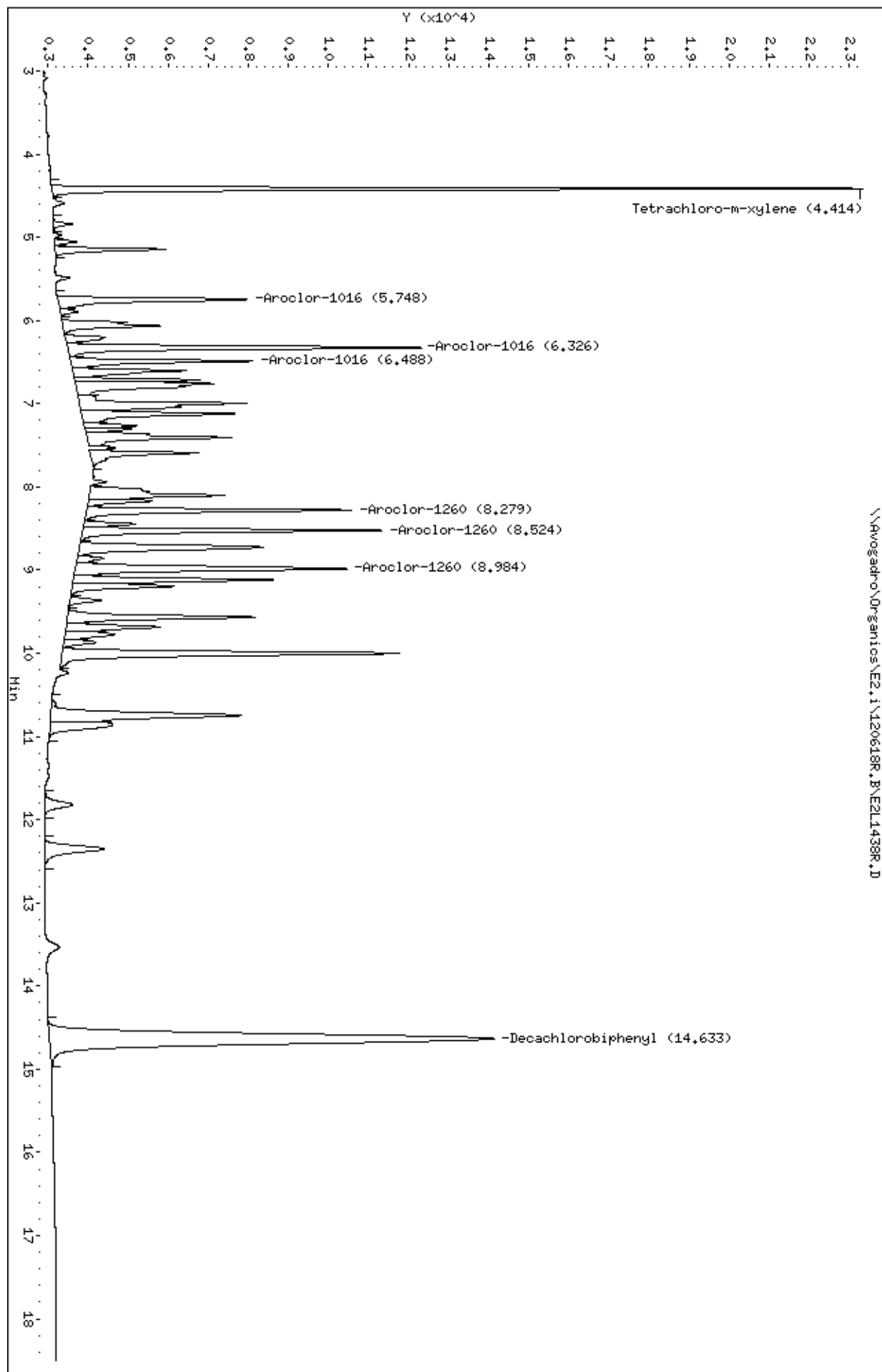
6 Aroclor-1016 CAS #: 12674-11-2						
5.748	5.743	0.005	4725 0.36187	120	80.00- 120.00	100.00
6.326	6.323	0.003	8840 0.38507	130	161.61- 201.61	187.09
6.488	6.485	0.003	4552 0.38864	130	70.77- 110.77	96.34
Average of Peak Concentrations =				130		

8 Aroclor-1260 CAS #: 11096-82-5						
8.279	8.276	0.003	6597 0.40542	140	80.00- 120.00	100.00
8.523	8.520	0.003	7456 0.42629	140	91.43- 131.43	113.02
8.984	8.982	0.002	6771 0.43182	140	88.64- 128.64	102.64
Average of Peak Concentrations =				140		

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
14.633	14.631	0.002	11079 0.14240	47		

Data File: \\Avogadro\Organics\E2.i\120618R.B\E2L1438R.D
Date : 18-JUN-2012 18:30
Client ID: LCS-66785
Sample Info: LCS-66785,LCS-66785,66785,80824,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66785(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-66785
Sample wt/vol: 30 (g/mL) G Lab File ID: E2L1439F.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____
Extraction: (Type) SONC Date Extracted: 06/18/2012
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012
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	130	
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	140	

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66785(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1326 Mod. Ref No.: _____ SDG No.: SL1326

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-66785

Sample wt/vol: 30 (g/mL) G Lab File ID: E2L1439R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 06/18/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/KG</u>	Q
12674-11-2	Aroclor-1016	130	
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	140	

Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618F.B\E2L1439F.D
 Lab Smp Id: LCSD-66785 Client Smp ID: LCSD-66785
 Inj Date : 18-JUN-2012 18:51
 Operator : DL SRC: LIMS Inst ID: E2.i
 Smp Info : LCSD-66785,LCSD-66785,66785,8082A.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618F.B\E2_LL_PCB_F.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959F.D
 Als bottle: 22 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8082A.sub
 Target Version: 4.14 Sample Matrix: SOIL
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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						
3.729	3.724	0.005	27517	0.05020	17	

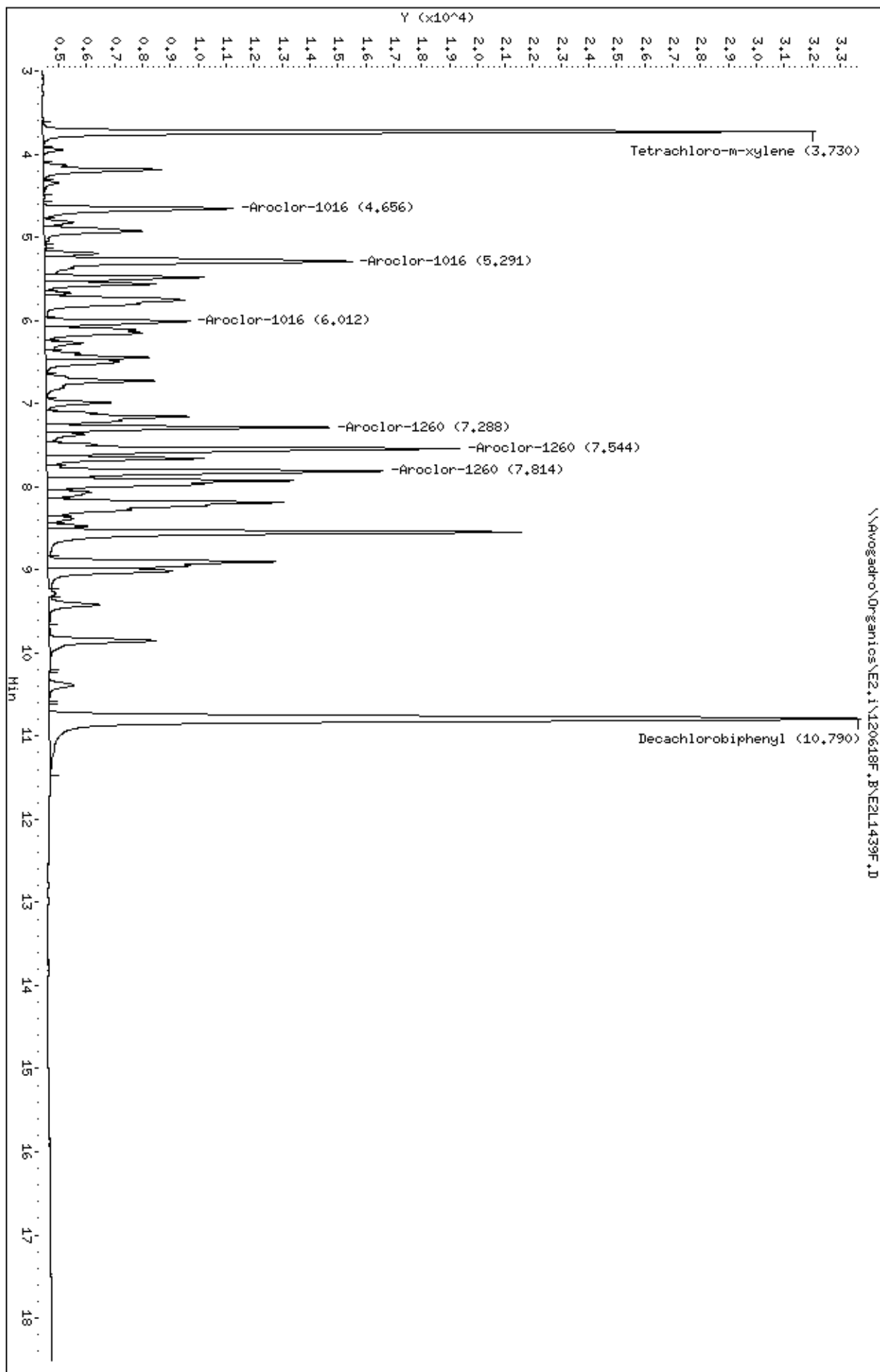
5 Aroclor-1016 CAS #: 12674-11-2						
4.656	4.650	0.006	6781	0.38864	130 80.00- 120.00	100.00
5.291	5.285	0.006	10993	0.40647	140 140.49- 180.49	162.11
6.011	6.007	0.004	5194	0.40847	140 57.67- 97.67	76.60
Average of Peak Concentrations =					130	

9 Aroclor-1260 CAS #: 11096-82-5						
7.287	7.283	0.004	9979	0.41596	140 80.00- 120.00	100.00
7.544	7.541	0.003	14782	0.43116	140 129.82- 169.82	148.13
7.814	7.811	0.003	11898	0.45041	150 105.65- 145.65	119.23
Average of Peak Concentrations =					140	

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
10.790	10.786	0.004	1416334	0.12687	42	

Data File: \\Avogadro\Organics\E2.i\120618F.B\E2L1439F.D
Date : 18-JUN-2012 18:51
Client ID: LCSD-66785
Sample Info: LCSD-66785,LCSD-66785,66785,8082A,sub,,
Volume Injected (uL): 1.0
Column phase: CLPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



Spectrum Analytical, Inc. RI Division

Quantitation Report

Data file : \\Avogadro\Organics\E2.i\120618R.B\E2L1439R.D
 Lab Smp Id: LCSD-66785 Client Smp ID: LCSD-66785
 Inj Date : 18-JUN-2012 18:51
 Operator : DL SRC: LIMS Inst ID: E2.i
 Smp Info : LCSD-66785,LCSD-66785,66785,8082A.sub,,
 Misc Info :
 Comment :
 Method : \\Avogadro\Organics\E2.i\120618R.B\E2_LL_PCB_R.m
 Meth Date : 19-Jun-2012 12:30 dlucas Quant Type: ESTD
 Cal Date : 25-MAY-2012 05:46 Cal File: E2L0959R.D
 Als bottle: 22 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: 8082A.sub
 Target Version: 4.14 Sample Matrix: SOIL
 Processing Host: TARGET112

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

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						
RT	EXP RT	DLT RT	RESPONSE (	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE RATIO
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
4.414	4.409	0.005	20954	0.04933	16	

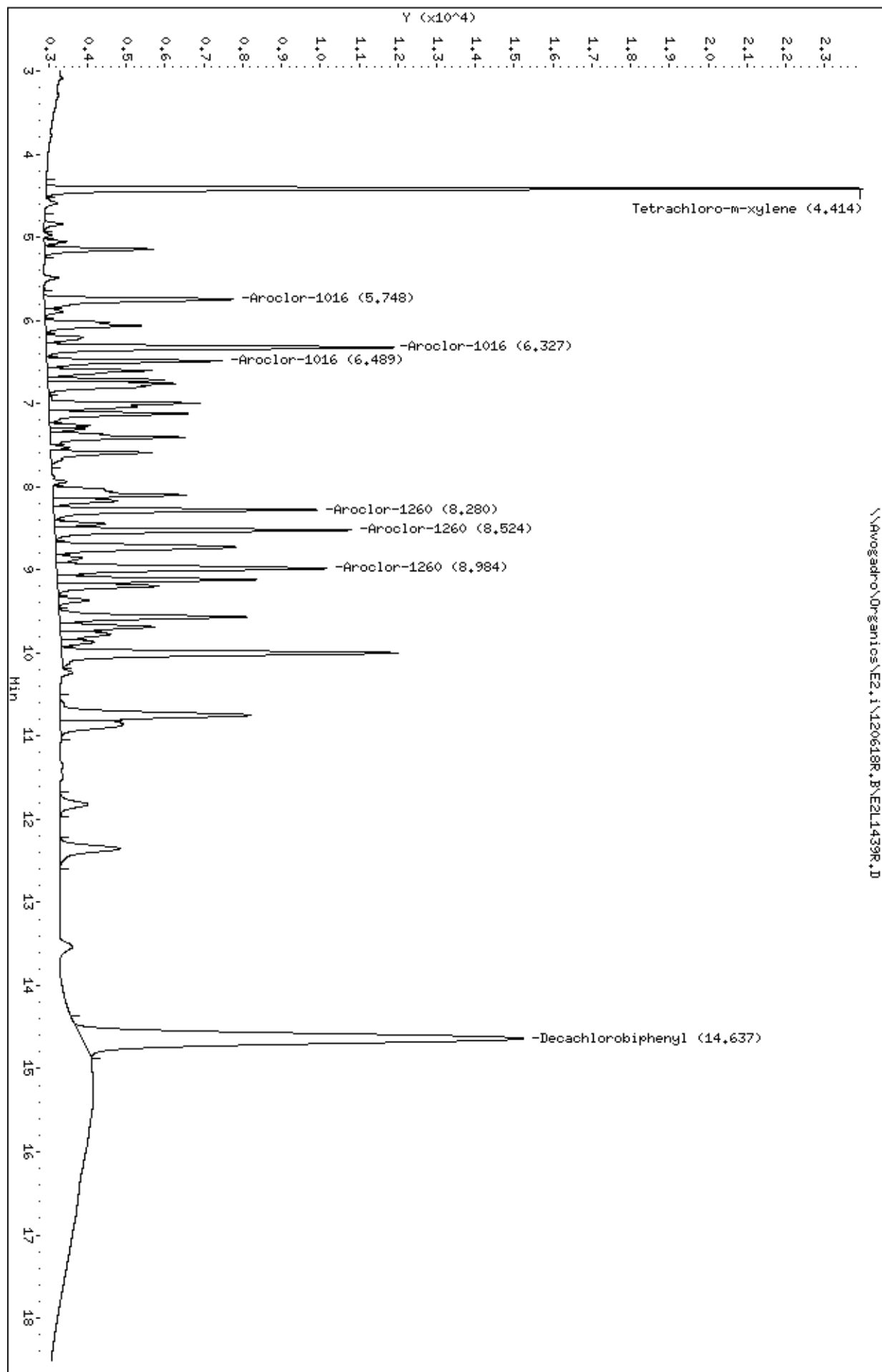
6 Aroclor-1016 CAS #: 12674-11-2						
5.748	5.743	0.005	4852	0.37160	120	80.00- 120.00 100.00
6.326	6.323	0.003	8972	0.39082	130	161.61- 201.61 184.91
6.488	6.485	0.003	4531	0.38685	130	70.77- 110.77 93.38
Average of Peak Concentrations =					130	

8 Aroclor-1260 CAS #: 11096-82-5						
8.279	8.276	0.003	6764	0.41568	140	80.00- 120.00 100.00
8.523	8.520	0.003	7620	0.43567	140	91.43- 131.43 112.66
8.984	8.982	0.002	6958	0.44374	150	88.64- 128.64 102.87
Average of Peak Concentrations =					140	

\$ 11 Decachlorobiphenyl CAS #: 2051-24-3						
14.637	14.631	0.006	11386	0.14635	49	

Data File: \\Avogadro\Organics\E2.i\120618R.B\E2L1439R.D
Date : 18-JUN-2012 18:51
Client ID: LCSD-66785
Sample Info: LCSD-66785,LCSD-66785,66785,8082A,sub,,
Volume Injected (uL): 1.0
Column phase: CLPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



Monday, June 18, 2012 10:19

Page 01 of 01

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 06/18/2012 08:49

Prep End Date: 06/18/2012 10:30

Prep Batch ID: 66785

Prep Code: PCB_S_PR

Prep Type: SONG/SW3550B

Prep Factor Units: mL / g

Technician: Timothy McDaniel

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: 115711

Solvent (1) Lot: DF 570

Solvent (3) Lot: DF 077

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: FC003284

Solvent (2) Lot: 113161

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

Mitkem 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 Bv	Storage	pH >11	pH <2	CNCNR Unit
MB-66785	BatchQC		30	10	OPW120413B	1			TMJBW				06/18/12	JBW	R21			Turbo Vap 1
LCS-66785	CLEAN UP (MB-66785): BatchQC		30	10	OPW120413B	1	OPW120413A	1	TMJBW				06/18/12	JBW	R21			Turbo Vap 1
LCS-66785	CLEAN UP (LCS-66785): BatchQC		30	10	OPW120413B	1	OPW120413A	1	TMJBW				06/18/12	JBW	R21			Turbo Vap 1
L1326-06B	CLEAN UP (LCS-66785): GP-24 8-12	S	30.5	10	OPW120413B	1			TMJBW				06/18/12	JBW	R21			Turbo Vap 1
	CLEAN UP (L1326-06B): BatchQC		30.5	10	OPW120413B	1	OPW120413A	1	TMJBW				06/18/12	JBW	R21			Turbo Vap 1

Jodie B Warner

Analyst Reviewed

Date

Manager Reviewed

Date

06/18/2012

Timothy McDaniel

06/18/2012

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

PCB LCS Spike Std ID:

Vol. Spiked:

Sulfur cleanup Copper lot #

Sonicator Tuned? Yes/No

Reviewed By:

TM 6/18/12

Percent Moisture and Percent Solids Report

<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Analyzed</i>	<i>Percent Moisture</i>	<i>Percent Solids</i>	<i>Validated</i>
<i>L1326-03A</i>	<i>GP-21 22-23.8</i>	06/18/2012	11.554	88.446	Yes
<i>L1326-04A</i>	<i>GP-23 0-2</i>	06/15/2012	17.955	82.045	Yes
<i>L1326-06B</i>	<i>GP-24 8-12</i>	06/15/2012	18.414	81.586	Yes

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E2

Spectrum Analytical, Inc. RI Division E2 Injection Log
 GC Semivolatiles Laboratory
 METHOD: 8523
 ANALYST: QMMO
 START BATCH: 120524CF.B
 END BATCH: 120524CF.B
 Start: 24-MAY-12 20:00
 End: 25-MAY-12 07:50

Inlet Maintenance By:
 Liner : 1
 Column : 6
 Inlet Seal : 6
 Septum :

STDs Page 71
 5/25/12
 Manual Integration: QMMO MI Review: 5/25/12

Internal Standard:
 Comments:
 Reviewed By: 5/25/12

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	SURROGATES		REAR	DILN	FLAGS	ANALYST	CHECK	COMMENTS	
				BATCH		TCMX	DCB	TCMX	DCB	F	R	F	R	
E2L0931F/R	20:00	AIBLKRA			AQ	0*	0*	0*	0*			✓		pw120524
E2L0932F/R	20:21	AR12213R2			AQ							✓		
E2L0933F/R	20:42	AR12323R2			AQ							✓		
E2L0934F/R	21:03	AR12421R2			AQ							✓		
E2L0935F/R	21:24	AR12426R2			AQ							✓		~~pw120524~~
E2L0936F/R	21:45	AR12422R2			AQ							✓		
E2L0937F/R	22:06	AR12423R2			AQ							✓		
E2L0938F/R	22:27	AR12424R2			AQ							✓		
E2L0939F/R	22:48	AR12425R2			AQ							✓		~~pw120524~~
E2L0940F/R	23:09	AR12481R2			AQ							✓		
E2L0941F/R	23:30	AR12486R2			AQ							✓		
E2L0942F/R	23:51	AR12482R2			AQ							✓		
E2L0943F/R	00:12	AR12483R2			AQ							✓		~~pw120524~~
E2L0944F/R	00:32	AR12484R2			AQ							✓		
E2L0945F/R	00:53	AR12485R2			AQ							✓		
E2L0946F/R	01:14	AR12541R2			AQ							✓		
E2L0947F/R	01:35	AR12546R2			AQ							✓		~~pw120524~~
E2L0948F/R	01:56	AR12542R2			AQ							✓		
E2L0949F/R	02:17	AR12543R2			AQ							✓		
E2L0950F/R	02:38	AR12544R2			AQ							✓		
E2L0951F/R	02:59	AR12545R2			AQ							✓		~~pw120524~~
E2L0952F/R	03:20	AR12623R2			AQ							✓		
E2L0953F/R	03:41	AR12683R2			AQ							✓		
E2L0954F/R	04:02	AR16601R2			AQ							✓		
E2L0955F/R	04:23	AR16606R2			AQ							✓		~~pw120524~~
E2L0956F/R	04:43	AR16602R2			AQ							✓		
E2L0957F/R	05:04	AR16603R2			AQ							✓		

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

QMMO 5/25/12

Spectrum Analytical, Inc. RI Division E2
GC Semivolatiles Laboratory

Injection Log

METHOD: 8087
ANALYST: 1122
START BATCH: 120529F.B
END BATCH: 120529F.B
ICAL DATE: 5/24/17
Start: 29-MAY-12 09:30
End: 29-MAY-12 13:50

Internal standard:
Comments:

Reviewed By: DL 5/29/12

Manual Integration:

$$\frac{4}{3}$$

MI Review:

21

Injection Log	METHOD:
	ICAL DATA

START BATCH: 120529F.B Start: 29-MAY-12 09:30
END BATCH: 120529F.B End: 29-MAY-12 13:50

Inlet Maintenance By:

Liner :
Column :
Inlet Seal:
Septum :

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	SURROGATES				DIIN	FLAGS		ANALYST	COMMENTS
						BATCH	TCMX	DCB	TCMX		DCB	TCMX		
E2L0980F/R	09:30	AI1BKRB	AI1BKRB		AQ					1			✓	
E2L0981F/R	09:51	AR16603RB	AR16603RB		AQ					1			✓	
E2L0982F/R	10:12	AR12423RB	AR12423RB		AQ					1			✓	
E2L0983F/R	10:33	AR12483RB	AR12483RB		AQ					1			✓	
E2L0984F/R	10:54	AR12543RB	AR12543RB		AQ					1			✓	
E2L0985F/R	11:15	MB-66380	MB-66380	66380	SL	83	101	88	94	1			✓	
E2L0986F/R	11:36	LCS-66380	LCS-66380	66380	SL	82	101	86	95	1			✓	
E2L0987F/R	11:57	L1162-01A	CDE-WIPB-052412	66380	SL	79	101	83	96	1			✓	
E2L0988F/R	12:26	AI1BKRC	AI1BKRC		AQ					1			✓	
E2L0989F/R	12:47	AR16603RC	AR16603RC		AQ					1			✓	
E2L0990F/R	13:08	AR12483RC	AR12483RC		AQ					1			✓	
E2L0991F/R	13:29	AR12543RC	AR12543RC		AQ					1			✓	
E2L0992F/R	13:50	AR12423RC	AR12423RC		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

Comments

Reviewed

Spectrum Analytical, Inc. RI Division E2 Injection Log
GC Semivolatiles Laboratory

METHOD: AIK2
ICAL DATE: 5/29/12

ANALYST: DL
START BATCH: 120618F.B
END BATCH: 120618F.B

Start: 18-JUN-12 08:46
End: 18-JUN-12 22:20

Inlet Maintenance By:

Liner : N/A
Column :
Inlet Seal:
Septum : ✓

See pg 74 for stds.

Internal Standard:
Comments:

6/19/12

Reviewed By: DL Manual Integration: NA MI Review: NA

FILE	TIME	LAB ID	CLIENT ID	PREP	BATCH	SURROGATES				DILN	ANALYST			COMMENTS
						MT	FRONT	REAR	DCB		DCB	DCB	DCB	
E2L1408F/R	08:46	AIKLRD	AIKLRD			AQ								
E2L1409F/R	09:07	AR16603RD	AR16603RD			AQ				1				
E2L1410F/R	09:28	AR12543RD	AR12543RD			AQ				1				
E2L1411F/R	09:49	AR12423RD	AR12423RD			AQ				1				
E2L1412F/R	10:10	AR12483RD	AR12483RD			AQ				1				
E2L1413F/R	10:37	AR12543RD	AR12543RD			AQ				1				
E2L1417F/R	11:08	MB-66759	MB-66759			66759	AQ	85	102	84	120			
E2L1418F/R	11:29	LCS-66759	LCS-66759			66759	AQ	86	104	85	120			
E2L1419F/R	11:50	LCS-66759	LCS-66759			66759	AQ	83	100	82	116			
E2L1420F/R	12:11	L1324-06A	EQUIPB			66759	AQ	65	27*	63	33*			
E2L1421F/R	12:32	MB-66752	MB-66752			66752	SL	82	108	82	125			
E2L1422F/R	12:53	LCS-66752	LCS-66752			66752	SL	81	105	80	121			
E2L1423F/R	13:14	L1324-01A	NW01			66752	SL	62	76	60	87			
E2L1424F/R	13:35	L1324-01AMS	NW01MS			66752	SL	50	70	48	79			
E2L1425F/R	13:56	L1324-01AMSD	NW01MSD			66752	SL	59	76	58	88			
E2L1426F/R	14:17	L1324-02A	FD			66752	SL	59	77	58	88			
E2L1427F/R	14:38	L1324-05A	NW02			66752	SL	56	77	55	87			
E2L1428F/R	15:01	AIKLRD	AIKLRD			AQ				1				
E2L1429F/R	15:22	AR16603RE	AR16603RE			AQ				1				
E2L1430F/R	15:42	AR12543RE	AR12543RE			AQ				1				
E2L1431F/R	16:03	AR12483RE	AR12483RE			AQ				1				
E2L1432F/R	16:24	AR12423RE	AR12423RE			AQ				1				
E2L1433F/R	16:45	MB-66768	MB-66768			66768	AQ	98	118	98	140*			
E2L1434F/R	17:06	LCS-66768	LCS-66768			66768	AQ	96	121	95	138*			
E2L1435F/R	17:27	LCS-66768	LCS-66768			66768	AQ	100	123	99	142*			
E2L1436F/R	17:48	L1323-11B	MB-24			66768	AQ	78	39*	77	47			
E2L1437F/R	18:09	MB-66785	MB-66785			66785	SL	86	105	84	122			

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

DL 6/19/12

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E2

Sequence Method ICAL Date

Spectrum Analytical, Inc. RI Division E2 Injection Log
 GC Semivolatiles Laboratory
 METHOD: AIK ANALYST: DL START BATCH: 120618F.B End: 18-JUN-12 08:46
 ICAL DATE: 5/29/12 END BATCH: 120618F.B End: 18-JUN-12 22:20

Internal Standard:
 Comments:
 Inlet Maintenance By:
 Liner : NA
 Column : NA
 Inlet Seal:
 Septum : NA

See pg 74 for stds

Reviewed By: GL/did

Manual Integration: NA MI Review: NA

FILE	TIME	LAB ID	CLIENT ID	PREP	MT	FRONT	REAR	DIIN	FLAGS	ANALYST	COMMENTS
				BATCH	TCMX	DCB	TCMX	DCB	F	R	
E2L1438F/R	18:30	LCS-66785	LCS-66785	66785	SL	80	102	79	119	1	
E2L1439F/R	18:51	LCS-66785	LCS-66785	66785	SL	84	106	82	122	1	
E2L1440F/R	19:12	L1326-06B	GP-24 8-12	66785	SL	63	81	62	99	1	
E2L1441F/R	19:33	MB-66775	MB-66775	66775	SL	89	117	89	133*	1	
E2L1442F/R	19:54	LCS-66775	LCS-66775	66775	SL	89	117	88	133*	1	
E2L1443F/R	20:15	LCS-66775	LCS-66775	66775	SL	86	116	86	127*	1	
E2L1444F/R	20:35	L1297-02A	BLDG 1440-IDW-S	66775	SL	73	112	72	105	1	DL 6X
E2L1445F/R	20:56	AIIBKRF	AIIBKRF	AQ						1	
E2L1446F/R	21:17	ARI6603RF	ARI6603RF	AQ						1	
E2L1447F/R	21:38	ARI2543RF	ARI2543RF	AQ						1	
E2L1448F/R	21:59	ARI2483RF	ARI2483RF	AQ						1	
E2L1449F/R	22:20	ARI2423RF	ARI2423RF	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

Comments

Reviewed

DL 6/19/12



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Metals/ Cyanide ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave.

Laboratory Workorder / SDG #: L1326

SW846 6010C, SW846 7471B, SW846 9012B

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, SW846 9012B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B

Soil Samples were prepared following procedures in laboratory test code: SW7471B

Soil Samples were prepared following procedures in laboratory test

code: SW9012B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

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: GP-24 8-12 (L1326-06BMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analyses were performed on sample: GP-24 8-12 (L1326-06BDUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

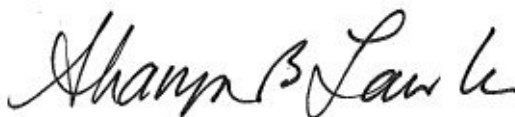
Serial Dilution analyses were performed on sample: GP-24 8-12 (L1326-06BSD).

Percent differences were within the QC limits.

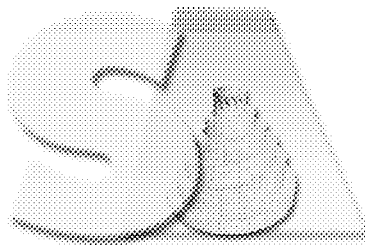
G. Samples:

No 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:  _____

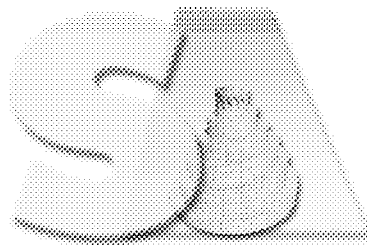
Date: 06/29/12



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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: 212440
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1326
SOW No.: SW846

EPA Sample No.	Lab Sample ID
<u>GP-23 0-2</u>	<u>L1326-04</u>
<u>GP-24 8-12</u>	<u>L1326-06</u>
<u>GP-24 8-12D</u>	<u>L1326-06DUP</u>
<u>GP-24 8-12S</u>	<u>L1326-06MS</u>

Were ICP interelement corrections applied?	Yes/No	<u>Yes</u>
Were background corrections applied?	Yes/No	<u>Yes</u>
If yes-were raw data generated before application of background corrections?	Yes/No	<u>No</u>

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: <u>Sharyn B Lawler</u>	Name: <u>Sharyn B Lawler</u>
Date: <u>6/29/12</u>	Title: <u>QAD</u>

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GP-23 0-2

Lab Name: Spectrum Analytical, Inc.Contract: 212440Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1326Matrix (soil/water): SOILLab Sample ID: L1326-04Level (low/med): MEDDate Received: 06/15/2012% Solids: 82.0Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5130			P
7440-36-0	Antimony	0.42	U		P
7440-38-2	Arsenic	1.1			P
7440-39-3	Barium	29.0			P
7440-41-7	Beryllium	0.091	B		P
7440-43-9	Cadmium	0.42			P
7440-70-2	Calcium	49300			P
7440-47-3	Chromium	9.1			P
7440-48-4	Cobalt	4.4			P
7440-50-8	Copper	12.1			P
7439-89-6	Iron	11400			P
7439-92-1	Lead	3.5			P
7439-95-4	Magnesium	12700			P
7439-96-5	Manganese	380			P
7439-97-6	Mercury	0.017	B		CV
7440-02-0	Nickel	9.0			P
7440-09-7	Potassium	763			P
7782-49-2	Selenium	0.70	U		P
7440-22-4	Silver	0.070	U		P
7440-23-5	Sodium	136			P
7440-28-0	Thallium	0.24	U		P
7440-62-2	Vanadium	14.2			P
7440-66-6	Zinc	27.0			P
57-12-5	Cyanide	0.45	U		CA

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GP-24 8-12

Lab Name: Spectrum Analytical, Inc.

Contract: 212440

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1326

Matrix (soil/water): SOIL

Lab Sample ID: L1326-06

Level (low/med): MED

Date Received: 06/15/2012

% Solids: 81.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2490			P
7440-36-0	Antimony	0.53	B		P
7440-38-2	Arsenic	0.77	B		P
7440-39-3	Barium	15.2			P
7440-41-7	Beryllium	0.052	B		P
7440-43-9	Cadmium	0.15	B		P
7440-70-2	Calcium	33400			P
7440-47-3	Chromium	5.0			P
7440-48-4	Cobalt	2.5	B		P
7440-50-8	Copper	6.4			P
7439-89-6	Iron	5860			P
7439-92-1	Lead	1.3			P
7439-95-4	Magnesium	9380			P
7439-96-5	Manganese	234			P
7439-97-6	Mercury	0.0030	U		CV
7440-02-0	Nickel	4.8			P
7440-09-7	Potassium	327			P
7782-49-2	Selenium	0.63	U		P
7440-22-4	Silver	0.063	U		P
7440-23-5	Sodium	119			P
7440-28-0	Thallium	0.22	U		P
7440-62-2	Vanadium	7.5			P
7440-66-6	Zinc	13.9			P
57-12-5	Cyanide	0.53	U		CA

Comments:

2A

Lab Name: Spectrum Analytical, Inc. Contract: 212440

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326

Initial Calibration Source:

Continuing Calibration Source:

	Initial Calibration			Continuing Calibration					
	06/19/12 13:40				06/19/12 13:47		06/19/12 14:07		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Cyanide	250.0	241.38	96.6	200.0	204.99	102.5	208.31	104.2	CA

ilm11.12.12.A

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 212440

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1326

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	06/19/12 10:52				06/19/12 11:11		06/19/12 11:44		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	9529.35	95.3	10000.0	9701.78	97.0	9727.42	97.3	P
Antimony	500.0	473.15	94.6	500.0	471.09	94.2	469.45	93.9	P
Arsenic	500.0	476.92	95.4	500.0	477.54	95.5	484.80	97.0	P
Barium	10000.0	9968.98	99.7	10000.0	10083.07	100.8	10150.33	101.5	P
Beryllium	250.0	239.27	95.7	250.0	241.38	96.6	243.13	97.3	P
Cadmium	250.0	235.94	94.4	250.0	240.39	96.2	243.24	97.3	P
Calcium	25000.0	23047.60	92.2	25000.0	23341.22	93.4	23733.70	94.9	P
Chromium	1000.0	942.26	94.2	1000.0	954.35	95.4	968.39	96.8	P
Cobalt	2500.0	2473.70	98.9	2500.0	2504.27	100.2	2543.23	101.7	P
Copper	1250.0	1214.31	97.1	1250.0	1231.74	98.5	1241.08	99.3	P
Iron	5000.0	4772.51	95.5	5000.0	4876.42	97.5	4927.84	98.6	P
Lead	500.0	475.28	95.1	500.0	478.12	95.6	488.79	97.8	P
Magnesium	25000.0	24310.94	97.2	25000.0	24556.38	98.2	24721.08	98.9	P
Manganese	2500.0	2446.18	97.8	2500.0	2466.67	98.7	2487.32	99.5	P
Nickel	2500.0	2433.53	97.3	2500.0	2470.24	98.8	2508.81	100.4	P
Potassium	25000.0	24045.24	96.2	25000.0	24355.99	97.4	24994.21	100	P
Selenium	500.0	478.99	95.8	500.0	481.92	96.4	482.41	96.5	P
Silver	1250.0	1267.35	101.4	1250.0	1276.99	102.2	1287.01	103.0	P
Sodium	25000.0	23924.28	95.7	25000.0	24223.17	96.9	25061.55	100.2	P
Thallium	500.0	447.68	89.5	500.0	451.38	90.3	455.18	91.0	P
Vanadium	2500.0	2431.61	97.3	2500.0	2446.43	97.9	2466.22	98.6	P
Zinc	2500.0	2441.41	97.7	2500.0	2470.55	98.8	2503.03	100.1	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 212440Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326Initial Calibration Source: Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					06/19/12 12:17				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Calcium				25000.0	23359.70	93.4			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: 212440

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326

Preparation Blank Matrix (soil/water): SOIL Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG MB-66783

FIMS2_120619A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	06/19/12 11:08	C		C		C		C	
Mercury	0.028	U	0.028	U					0.002	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 212440

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326

Preparation Blank Matrix (soil/water): SOIL Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG MB-66844

LACHAT1_120619A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	06/19/12 13:50	C	06/19/12 14:10	C		C		C	
Cyanide	7.5	U	7.5	U	7.5	U			0.450	U	CA

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 212440

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

MB-66781

OPTIMA3_120619B

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	06/19/12 11:15	C	06/19/12 11:48	C		C		C	
Aluminum	66.0	U	66.0	U	66.0	U			1.200	U	P
Antimony	9.3	U	9.3	U	9.3	U			0.851	B	P
Arsenic	4.3	U	4.3	U	4.3	U			0.410	U	P
Barium	1.2	B	1.3	B	1.3	B			0.093	B	P
Beryllium	0.3	U	0.3	U	0.3	U			0.002	U	P
Cadmium	0.9	U	0.9	U	0.9	U			0.015	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	6.100	U	P
Chromium	0.6	U	0.6	U	0.6	U			0.019	U	P
Cobalt	0.7	U	0.7	U	0.7	U			0.044	U	P
Copper	3.6	U	3.6	U	3.6	U			0.196	B	P
Iron	31.0	U	31.0	U	31.0	U			1.500	U	P
Lead	4.2	U	4.2	U	4.2	U			0.170	U	P
Magnesium	76.0	U	76.0	U	76.0	U			0.630	U	P
Manganese	10.0	U	10.0	U	10.0	U			0.130	U	P
Nickel	0.9	U	0.8	U	0.8	U			0.043	U	P
Potassium	76.0	U	76.0	U	76.0	U			3.400	U	P
Selenium	12.0	U	14.3	B	12.0	U			0.640	U	P
Silver	7.5	B	6.9	U	6.9	U			0.064	U	P
Sodium	29.0	U	29.0	U	39.4	B			1.100	U	P
Thallium	6.2	U	6.2	U	6.2	U			0.220	U	P
Vanadium	1.1	U	1.1	U	1.1	U			0.060	U	P
Zinc	4.9	U	4.9	U	4.9	U			0.357	B	P

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 212440Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found			
	Sol.	Sol.	Sol.	Sol.		Sol.		Sol.	
	A	AB	A	AB	%R	A	%R	AB	%R
Aluminum	500000	500000	525858	523675.5	104.7				
Antimony	0	600	-4	656.2	109.4				
Arsenic	0	100	-13	86.5	86.5				
Barium	0	500	2	535.2	107.0				
Beryllium	0	500	0	505.4	101.1				
Cadmium	0	1000	6	922.3	92.2				
Calcium	500000	500000	540468	542279	108.5				
Chromium	0	500	1	501.5	100.3				
Cobalt	0	500	0	472	94.4				
Copper	0	500	5	542.9	108.6				
Iron	200000	200000	188967	189622.7	94.8				
Lead	0	500	10	505.8	101.2				
Magnesium	500000	500000	500287	495744.7	99.1				
Manganese	0	500	-6	501.6	100.3				
Nickel	0	1000	-3	919.8	92.0				
Potassium	0	25000	287	28523.2	114.1				
Selenium	0	500	-6	506	101.2				
Silver	0	200	-13	216.6	108.3				
Sodium	0	25000	190	28216.6	112.9				
Thallium	0	100	10	86.5	86.5				
Vanadium	0	500	-6	499.6	99.9				
Zinc	0	1000	12	945.8	94.6				

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

GP-24 8-12S

Lab Name: Spectrum Analytical, Inc.

Contract: 212440

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1326

Matrix (soil/water): SOIL

Level (low/med): MED

% Solids for Sample: 81.6

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	19.6	0.53 B	22.3	86		P
Arsenic	75-125	24.3	0.77 B	22.3	106		P
Barium	75-125	490	15.2	446	107		P
Beryllium	75-125	12.0	0.052 B	11.1	107		P
Cadmium	75-125	11.2	0.15 B	11.1	99		P
Chromium	75-125	52.5	5.0	44.6	107		P
Cobalt	75-125	115	2.5 B	111	101		P
Copper	75-125	69.4	6.4	55.4	114		P
Lead	75-125	24.1	1.3	22.3	102		P
Nickel	75-125	118	4.8	111	102		P
Selenium	75-125	23.4	0.63 U	22.3	105		P
Silver	75-125	62.9	0.063 U	55.4	114		P
Thallium	75-125	18.2	0.22 U	22.3	82		P
Vanadium	75-125	129	7.5	111	109		P
Zinc	75-125	123	13.9	111	98		P
Mercury	75-125	1.1	0.0030 U	1.1	107		CV
Cyanide	75-125	5.8	0.53 U	5.8	100		CA

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

DUPLICATES

GP-24 8-12D

Lab Name: Spectrum Analytical, Inc.

Contract: 212440

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1326

Matrix (soil/water): SOIL

Level (low/med): MED

% Solids for Sample: 81.6

% Solids for Duplicate: 81.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2488.0105		2838.6656		13.2		P
Antimony		0.5328	B	0.3700	U	200		P
Arsenic		0.7665	B	0.7272	B	5.3		P
Barium	9.9	15.2121		15.5694		2.3		P
Beryllium		0.0518	B	0.0576	B	10.6		P
Cadmium		0.1502	B	0.1762	B	15.9		P
Calcium		33374.8032		32958.8541		1.3		P
Chromium		5.0126		5.4944		9.2		P
Cobalt	2.5	2.4551	B	2.7134		10		P
Copper	1.5	6.4001		6.6895		4.4		P
Iron		5860.3057		6491.1371		10.2		P
Lead	0.5	1.3129		1.3844		5.3		P
Magnesium		9384.0256		9694.7172		3.3		P
Manganese		233.7313		239.0130		2.2		P
Nickel	2.5	4.8346		5.3748		10.6		P
Potassium		326.7092		356.4242		8.7		P
Selenium		0.6300	U	0.6300	U			P
Silver		0.0630	U	0.0630	U			P
Sodium	49.0	118.9213		126.7120		6.3		P
Thallium		0.2200	U	0.2200	U			P
Vanadium	2.5	7.5408		8.2775		9.3		P
Zinc		13.9436		15.0992		8		P
Mercury		0.0030	U	0.0030	U			CV
Cyanide		0.5300	U	0.5300	U			CA

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc.

Contract: 212440

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1326

Solid LCS Source:

LCS(D) ID:

Aqueous LCS Source:

LCS-66781

Analyte	Aqueous (ug/L)			Solid (mg/Kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum				455.0	448.8		364 546.0	98.6
Antimony				22.8	24.2		18.2 27.3	106.1
Arsenic				22.8	23.0		18.2 27.3	100.9
Barium				455.0	470.2		364 546.0	103.3
Beryllium				11.4	11.4		9.1 13.6	100.0
Cadmium				11.4	11.2		9.1 13.6	98.2
Calcium				1135.0	1086.3		908 1362.0	95.7
Chromium				45.5	45.3		36.4 54.6	99.6
Cobalt				113.5	113.1		90.8 136.2	99.6
Copper				56.5	57.5		45.2 67.8	101.8
Iron				227.5	228.0		182 273.0	100.2
Lead				22.8	22.8		18.2 27.3	100.0
Magnesium				1135.0	1138.7		908 1362.0	100.3
Manganese				113.5	115.0		90.8 136.2	101.3
Nickel				113.5	113.2		90.8 136.2	99.7
Potassium				1135.0	1141.2		908 1362.0	100.5
Selenium				22.8	21.7		18.2 27.3	95.2
Silver				56.5	59.3		42.4 67.8	105.0
Sodium				1135.0	1149.9		908 1362.0	101.3
Thallium				22.8	20.6		18.2 27.3	90.4
Vanadium				113.5	114.0		90.8 136.2	100.4
Zinc				113.5	111.0		90.8 136.2	97.8

U.S. EPA - CLP
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LABORATORY CONTROL SAMPLE

Lab Name:	Spectrum Analytical, Inc.	Contract:	212440				
Lab Code:	MITKEM	Case No.:		SAS No.:		SDG No.:	SL1326
Solid LCS Source:				LCS(D) ID:			
Aqueous LCS Source:				LCS-66783			

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Mercury				0.8	0.8		0.6	0.9	100.0

U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name:	Spectrum Analytical, Inc.	Contract:	212440				
Lab Code:	MITKEM	Case No.:		SAS No.:		SDG No.:	SL1326
Solid LCS Source:				LCS(D) ID:			
Aqueous LCS Source:				LCS-66844			

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Cyanide				5.0	4.8		4	6.0	96.0

U.S. EPA - CLP

9

EPA SAMPLE NO.

ICP SERIAL DILUTIONS

GP-24 8-12

Lab Name: Spectrum Analytical, Inc. Contract: 212440Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326Matrix (soil/water): SOIL Level (low/med): MEDConcentration 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	50340.98		47885.39		5		P
Antimony	10.78	B	46.50	U	100		P
Arsenic	15.51	B	21.50	U	100		P
Barium	307.79		316.23		3		P
Beryllium	1.05	B	1.30	U	100		P
Cadmium	3.04	B	4.45	U	100		P
Calcium	33764.33		32727.71		3		P
Chromium	101.42		101.46		0		P
Cobalt	49.67	B	53.71		8		P
Copper	129.50		125.70		3		P
Iron	118574.07		123854.94		5		P
Lead	26.57		26.43		1		P
Magnesium	189871.00		197322.86		4		P
Manganese	4729.18		4876.41		3		P
Nickel	97.82		106.75		9		P
Potassium	6610.45		6490.58		2		P
Selenium	12.00	U	60.00	U			P
Silver	6.90	U	34.50	U			P
Sodium	2406.18		2281.81		5		P
Thallium	6.20	U	31.00	U			P
Vanadium	152.58		153.61		1		P
Zinc	282.13		308.25		9		P

U.S. EPA - CLP

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 212440

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326

Instrument Type: CV InstrumentID: FIMS2 Date: 03/04/2010

Preparation Method: 7471B

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Mercury	253.70	0.2	0.028

Comments:

U.S. EPA - CLP

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 212440Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326Instrument Type: CV InstrumentID: FIMS2 Date: 02/09/2011Preparation Method: 7471BConcentration 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: 212440
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326
Instrument Type: CA InstrumentID: LACHAT1 Date: 01/11/2010
Preparation Method: Midi-
Concentration Units (ug/L or mg/kg): mg/Kg

Analyte	Wavelength /Mass	CRDL	MDL
Cyanide	570.00	1.0	0.45

Comments:

U.S. EPA - CLP
10
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 212440
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326
Instrument Type: CA InstrumentID: LACHAT1 Date: 01/11/2010
Preparation Method: Midi-
Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Cyanide	570.00	20	7.5

Comments:

U.S. EPA - CLP

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 212440

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326

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

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 212440

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326

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: 212440

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1326

ICP ID Number:

OPTIMA3

Date:

4/10/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Co
Aluminum	308.21		0.1950780	0.0000000	0.0689271	0.0000000
Antimony	206.83	0.0581013	0.0000000	0.0549587	0.0214185	0.0000000
Arsenic	188.97	0.0098790	-0.0124040	-0.0756686	0.0157247	0.1927900
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	0.0025914	0.0749299	0.0000000	-0.0433049
Calcium	227.54	0.0000000		7.8420900	0.5637690	253.7870000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0064696	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0241432	0.0000000	
Copper	324.75	0.0000000	0.0000000	-0.0922443	0.0000000	-0.1349370
Iron	273.95	0.0000000	0.0000000		0.0000000	0.0000000
Lead	220.35	-0.1032270	-0.0123272	0.0209682	-0.0064852	-0.0680890
Magnesium	279.07	0.0000000	0.0000000	0.0000000		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0301633	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0042808	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0219452	0.0000000	-0.3855700	0.0000000	-0.7432810
Silver	328.06	0.0000000	0.0000000	-0.0362359	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	-0.0153767	-0.0040303	-0.1223880	-0.0549555	5.8333800
Titanium	334.94	0.0000000	-0.0167659	0.0000000	0.0182020	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0307673	0.0000000	0.0000000
Zinc	206.20	-0.0121647	-0.0130048	-0.0501268	-0.0144316	-0.3012520

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc.

Contract: 212440

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1326

ICP ID Number:

OPTIMA3

Date:

4/10/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Mn	Ni	Tl
Aluminum	308.21	0.0000000	0.0000000	1.5401500	0.0000000	0.0000000
Antimony	206.83	18.3748000	0.3246940	0.0000000	0.0000000	0.0000000
Arsenic	188.97	-8.8838000	0.0000000	0.2489140	0.0999179	0.1051500
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	-0.2126510	0.0000000
Calcium	227.54	5.3533500	3.5228400	3.8819800	26.7628000	0.0000000
Chromium	267.71		0.0000000	0.2043740	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.1584950	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	-0.0447064	0.3133570	-0.0606043	-0.1219210	-0.1744540
Magnesium	279.07	2.4873800	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000		0.0474986	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000		0.2920460
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.2759200	-0.2480870	0.0000000	-0.1215600	-0.4373880
Silver	328.06	0.0000000	0.0000000	0.2125900	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0860847	-0.1533400	-0.3345200	-0.0729483	
Titanium	334.94	0.1475450	0.0000000	0.0000000	0.0000000	0.1490420
Vanadium	292.40	-2.2898300	0.3129820	0.0000000	0.0000000	0.0000000
Zinc	206.20	-1.8283200	-0.3316020	-0.4006130	-0.1453040	-0.4071760

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc.

Contract: 212440

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1326

ICP ID Number:

OPTIMA3

Date:

4/10/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ti	V	_____	_____	_____
Aluminum	308.21	1.6328600	-0.3229200			
Antimony	206.83	-2.3648000	-1.1022500			
Arsenic	188.97	-0.2598760	0.0000000			
Barium	233.52	0.0000000	-1.4206100			
Beryllium	313.10	-1.8417600	-0.0298256			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	227.54	7.1850200	24.4780000			
Chromium	267.71	0.0000000	-0.3095710			
Cobalt	228.61	2.3045300	0.0000000			
Copper	324.75	0.0000000	-0.1578650			
Iron	273.95	0.0000000	-1.6429000			
Lead	220.35	-0.9907230	-0.0982908			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.5886010	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	-0.6097280	0.0000000			
Silver	328.06	0.0000000	-1.9059700			
Sodium	589.59	0.0000000	0.0000000			
Thallium	190.80	-0.2863380	4.5539900			
Titanium	334.94		0.0000000			
Vanadium	292.40	1.3967000				
Zinc	206.20	-0.8719450	-0.1607790			

Comments:

U.S. EPA - CLP
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ICP LINEAR RANGES (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 212440
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1326
ICP ID Number: OPTIMA3 Date: 5/10/2012

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	0.20	500000	P
Antimony	0.20	50000	P
Arsenic	0.20	50000	P
Barium	0.20	100000	P
Beryllium	0.20	5000	P
Cadmium	0.20	50000	P
Calcium	0.20	500000	P
Chromium	0.20	50000	P
Cobalt	0.20	100000	P
Copper	0.20	50000	P
Iron	0.20	500000	P
Lead	0.20	100000	P
Magnesium	0.20	500000	P
Manganese	0.20	50000	P
Nickel	0.20	100000	P
Potassium	0.20	500000	P
Selenium	0.20	50000	P
Silver	0.20	2500	P
Sodium	0.20	500000	P
Thallium	0.20	50000	P
Vanadium	0.20	50000	P
Zinc	0.20	50000	P

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 212440
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326
Preparation Method: 3050B Batch ID: 66781

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
GP-23 0-2	06/18/2012	1.11	50
GP-24 8-12	06/18/2012	1.24	50
GP-24 8-12D	06/18/2012	1.25	50
GP-24 8-12S	06/18/2012	1.25	50
LCSS	06/18/2012	1.00	50
PBS	06/18/2012	1.00	50

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: <u>Spectrum Analytical, Inc.</u>	Contract: <u>212440</u>
Lab Code: <u>MITKEM</u> Case No.: _____	SAS No.: _____ SDG No.: <u>SL1326</u>
Preparation Method: <u>7471B</u>	Batch ID: <u>66783</u>

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	06/18/2012	0.60	100
CCV	06/18/2012	0.60	100
ICB	06/18/2012	0.60	100
ICV	06/18/2012	0.60	100
S0	06/18/2012	0.60	100
S0.2	06/18/2012	0.60	100
S1.0	06/18/2012	0.60	100
S10.0	06/18/2012	0.60	100
S2.0	06/18/2012	0.60	100
S5.0	06/18/2012	0.60	100
GP-23 0-2	06/18/2012	0.52	100
GP-24 8-12	06/18/2012	0.52	100
GP-24 8-12D	06/18/2012	0.52	100
GP-24 8-12S	06/18/2012	0.52	100
LCSS	06/18/2012	0.60	100
PBS	06/18/2012	0.60	100

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 212440
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326
Preparation Method: Midi-distill Batch ID: 66844

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
GP-23 0-2	06/19/2012	1.22	50
GP-24 8-12	06/19/2012	1.05	50
GP-24 8-12D	06/19/2012	1.04	50
GP-24 8-12S	06/19/2012	1.05	50
LCSS	06/19/2012	1.00	50
PBS	06/19/2012	1.00	50

Comments:

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 212440
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1326
 Instrument ID Number: FIMS2 Method: CV
 Start Date: 06/19/2012 End Date: 06/19/2012

FIMS2_120619A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.0	1038															X												
S0.2	1.0	1040															X												
S1.0	1.0	1041															X												
S2.0	1.0	1043															X												
S5.0	1.0	1045															X												
S10.0	1.0	1046															X												
ICV	1.0	1048															X												
ICB	1.0	1050															X												
PBS	1.0	1051															X												
LCSS	1.0	1053															X												
GP-23 0-2	1.0	1055															X												
GP-24 8-12	1.0	1056															X												
GP-24 8-12D	1.0	1058															X												
GP-24 8-12S	1.0	1100															X												
ZZZZZZ	1.0	1101																											
ZZZZZZ	1.0	1103																											
ZZZZZZ	1.0	1105																											
CCV	1.0	1106															X												
CCB	1.0	1108															X												

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 212440
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1326
 Instrument ID Number: LACHAT1 Method: CA
 Start Date: 06/19/2012 End Date: 06/19/2012

LACHAT1_120619A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.0	1321																									X		
S0.01	1.0	1324																									X		
S0.025	1.0	1326																									X		
S0.05	1.0	1329																									X		
S0.1	1.0	1331																									X		
S0.2	1.0	1334																									X		
S0.4	1.0	1336																									X		
ICV	1.0	1340																									X		
ICB	1.0	1342																									X		
ZZZZZZ	1.0	1345																											
CCV	1.0	1347																									X		
CCB	1.0	1350																									X		
PBS	1.0	1352																									X		
LCSS	1.0	1355																									X		
GP-23 0-2	1.0	1357																									X		
GP-24 8-12	1.0	1400																									X		
GP-24 8-12D	1.0	1402																									X		
GP-24 8-12S	1.0	1405																									X		
CCV	1.0	1407																									X		
CCB	1.0	1410																									X		

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 212440
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1326
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 06/19/2012 End Date: 06/19/2012

OPTIMA3_120619B

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.0	1037		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
S1	1.0	1041		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
S2	1.0	1045		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
S3	1.0	1048		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ICV	1.0	1052		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ICB	1.0	1056		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ZZZZZZ	1.0	1100																											
ICSA	1.0	1103		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ICSAB	1.0	1107		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCV	1.0	1111		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB	1.0	1115		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
PBS	1.0	1118		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
LCSS	1.0	1122		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
GP-23 0-2	1.0	1126		X	X	X	X	X			X	X	X	X	X	X		X	X	X	X	X	X	X	X				
GP-24 8-12	1.0	1129		X	X	X	X	X			X	X	X	X	X	X		X	X	X	X	X	X	X	X				
GP-24 8-12D	1.0	1133		X	X	X	X	X			X	X	X	X	X	X		X	X	X	X	X	X	X	X				
GP-24 8-12S	1.0	1137			X	X	X	X	X		X	X	X		X			X		X	X		X	X	X				
GP-24 8-12L	5.0	1140		X	X	X	X	X			X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCV	1.0	1144		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB	1.0	1148		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ZZZZZZ	1.0	1151																											
GP-23 0-2	20.0	1155								X																			
GP-24 8-12	20.0	1159								X																			
GP-24 8-12D	20.0	1202								X																			
GP-24 8-12L	100.0	1206								X																			
ZZZZZZ	1.0	1210																											
ZZZZZZ	1.0	1214																											
CCV	1.0	1217								X																			
CCB	1.0	1221								X																			

Instrument Raw Data

Sequence No.: 1

Sample ID: S0

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/19/2012 10:37:52 AM

Data Type: Reprocessed on 6/19/2012 1:48:32 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1346845.4	9529.25	0.71%	100.00	%
Lu 261.542	1154733.8	3735.01	0.32%	100.0	%
Ag 328.068†	-980.8	45.89	4.68%	[0.00]	mg/L
Al 308.215†	2205.9	90.75	4.11%	[0.00]	mg/L
As 188.979†	-1.9	0.18	9.16%	[0.00]	mg/L
Ba 233.527†	-69.3	3.60	5.19%	[0.00]	mg/L
Be 313.107†	-636.4	39.20	6.16%	[0.00]	mg/L
Co 228.616†	-15.3	4.96	32.40%	[0.00]	mg/L
Cr 267.716†	26.7	3.20	11.98%	[0.00]	mg/L
Cu 324.752†	1405.6	54.10	3.85%	[0.00]	mg/L
Fe 273.955†	-531.9	9.25	1.74%	[0.00]	mg/L
Mg 279.077†	-743.9	24.84	3.34%	[0.00]	mg/L
Mn 257.610†	-28.9	16.06	55.53%	[0.00]	mg/L
Ni 231.604†	-43.2	4.87	11.27%	[0.00]	mg/L
Pb 220.353†	26.3	4.06	15.44%	[0.00]	mg/L
Sb 206.836†	14.2	1.14	8.00%	[0.00]	mg/L
Se 196.026†	-6.3	2.11	33.34%	[0.00]	mg/L
Tl 190.801	-11.1	1.19	10.71%	[0.00]	mg/L
V 292.402†	-2.2	6.84	314.25%	[0.00]	mg/L
Zn 206.200†	30.1	2.64	8.78%	[0.00]	mg/L
Cd 226.502†	-5.3	1.62	30.58%	[0.00]	mg/L
Ti 334.940†	-57.6	53.77	93.41%	[0.00]	mg/L
Ca 227.546†	99.6	3.70	3.72%	[0.00]	mg/L
Na 589.592†	831.6	61.95	7.45%	[0.00]	mg/L
K 766.490†	1568.0	42.66	2.72%	[0.00]	mg/L

Sequence No.: 2

Sample ID: S1

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 6/19/2012 10:41:31 AM

Data Type: Reprocessed on 6/19/2012 1:48:34 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1287787.8	7964.57	0.62%	95.615	%
Lu 261.542	1113040.2	6574.75	0.59%	96.39	%
Ag 328.068†	282577.3	3626.55	1.28%	[2.5]	mg/L
Al 308.215†	353645.4	456.03	0.13%	[20]	mg/L
As 188.979†	688.5	1.99	0.29%	[1]	mg/L
Ba 233.527†	1035972.6	1337.63	0.13%	[20]	mg/L
Be 313.107†	1159984.9	955.04	0.08%	[0.5]	mg/L
Co 228.616†	121675.3	1999.02	1.64%	[5]	mg/L
Cr 267.716†	97163.0	1589.93	1.64%	[2]	mg/L
Cu 324.752†	427154.1	1857.85	0.43%	[2.5]	mg/L
Fe 273.955†	210501.1	3320.25	1.58%	[10]	mg/L
Mg 279.077†	758081.1	564.07	0.07%	[50]	mg/L
Mn 257.610†	2529743.0	2558.07	0.10%	[5]	mg/L
Ni 231.604†	102339.3	1727.69	1.69%	[5]	mg/L
Pb 220.353†	3584.3	27.38	0.76%	[1]	mg/L
Sb 206.836†	660.9	10.54	1.59%	[1]	mg/L
Se 196.026†	516.8	5.65	1.09%	[1]	mg/L
Tl 190.801	829.4	3.10	0.37%	[1]	mg/L
V 292.402†	388052.2	143.53	0.04%	[5]	mg/L
Zn 206.200†	54122.3	991.96	1.83%	[5]	mg/L

Cd 226.502†	12983.2	232.17	1.79%	[0.5] mg/L
Ti 334.940†	440698.5	1791.07	0.41%	[1] mg/L
Ca 227.546†	6780.1	51.28	0.76%	[50] mg/L
Na 589.592†	234123.3	2887.56	1.23%	[50] mg/L
K 766.490†	63497.3	712.68	1.12%	[50] mg/L

Sequence No.: 3

Sample ID: S2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 6/19/2012 10:45:14 AM

Data Type: Reprocessed on 6/19/2012 1:48:35 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1338469.2	8913.75	0.67%	99.378	%
Lu 261.542	1156464.1	5703.15	0.49%	100.1	%
Ag 328.068†	138836.7	2281.00	1.64%	[1.25]	mg/L
Al 308.215†	169059.8	552.27	0.33%	[10]	mg/L
As 188.979†	330.6	4.91	1.48%	[0.5]	mg/L
Ba 233.527†	515801.5	1958.20	0.38%	[10]	mg/L
Be 313.107†	567687.1	1424.67	0.25%	[0.25]	mg/L
Co 228.616†	59328.3	607.34	1.02%	[2.5]	mg/L
Cr 267.716†	47135.1	462.83	0.98%	[1]	mg/L
Cu 324.752†	206687.7	839.58	0.41%	[1.25]	mg/L
Fe 273.955†	101751.6	941.78	0.93%	[5]	mg/L
Mg 279.077†	372998.7	1287.59	0.35%	[25]	mg/L
Mn 257.610†	1252835.4	4558.41	0.36%	[2.5]	mg/L
Ni 231.604†	50167.1	600.04	1.20%	[2.5]	mg/L
Pb 220.353†	1740.3	8.52	0.49%	[0.5]	mg/L
Sb 206.836†	325.4	2.62	0.81%	[0.5]	mg/L
Se 196.026†	251.4	7.18	2.85%	[0.5]	mg/L
Tl 190.801	421.9	3.72	0.88%	[0.5]	mg/L
V 292.402†	189153.1	511.07	0.27%	[2.5]	mg/L
Zn 206.200†	26619.8	470.00	1.77%	[2.5]	mg/L
Cd 226.502†	6370.3	140.40	2.20%	[0.25]	mg/L
Ti 334.940†	213679.9	1616.17	0.76%	[0.5]	mg/L
Ca 227.546†	3213.6	16.44	0.51%	[25]	mg/L
Na 589.592†	109847.1	527.20	0.48%	[25]	mg/L
K 766.490†	29804.2	213.25	0.72%	[25]	mg/L

Sequence No.: 4

Sample ID: S3

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 6/19/2012 10:48:57 AM

Data Type: Reprocessed on 6/19/2012 1:48:36 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1353637.4	6733.13	0.50%	100.50	%
Lu 261.542	1163141.5	5693.10	0.49%	100.7	%
Ag 328.068†	4148.0	69.59	1.68%	[0.025]	mg/L
Al 308.215†	3165.9	102.59	3.24%	[0.2]	mg/L
As 188.979†	3.8	4.33	113.22%	[0.01]	mg/L
Ba 233.527†	10632.8	75.47	0.71%	[0.2]	mg/L
Be 313.107†	11080.5	59.72	0.54%	[0.005]	mg/L
Co 228.616†	1204.0	7.23	0.60%	[0.05]	mg/L
Cr 267.716†	948.2	4.04	0.43%	[0.02]	mg/L
Cu 324.752†	4011.3	13.46	0.34%	[0.025]	mg/L
Fe 273.955†	2011.3	64.84	3.22%	[0.1]	mg/L
Mg 279.077†	7456.3	77.61	1.04%	[0.5]	mg/L
Mn 257.610†	25701.2	241.28	0.94%	[0.05]	mg/L
Ni 231.604†	1019.4	14.99	1.47%	[0.05]	mg/L
Pb 220.353†	35.6	2.87	8.06%	[0.01]	mg/L

Sb 206.836†	9.4	0.67	7.13%	[0.01]	mg/L
Se 196.026†	7.4	4.85	65.68%	[0.01]	mg/L
Tl 190.801	11.1	3.63	32.83%	[0.01]	mg/L
V 292.402†	3719.1	40.29	1.08%	[0.05]	mg/L
Zn 206.200†	565.3	2.68	0.47%	[0.05]	mg/L
Cd 226.502†	127.1	1.70	1.34%	[0.005]	mg/L
Ti 334.940†	4261.9	33.56	0.79%	[0.01]	mg/L
Ca 227.546†	58.4	10.13	17.35%	[0.5]	mg/L
Na 589.592†	2278.4	72.94	3.20%	[0.5]	mg/L
K 766.490†	646.0	119.31	18.47%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	112600	0.00000	0.999967	
Al 308.215	3	Lin Thru 0	0.0	17530	0.00000	0.999843	
As 188.979	3	Lin Thru 0	0.0	683.0	0.00000	0.999865	
Ba 233.527	3	Lin Thru 0	0.0	51760	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	2310000	0.00000	0.999964	
Co 228.616	3	Lin Thru 0	0.0	24210	0.00000	0.999950	
Cr 267.716	3	Lin Thru 0	0.0	48290	0.00000	0.999928	
Cu 324.752	3	Lin Thru 0	0.0	169800	0.00000	0.999916	
Fe 273.955	3	Lin Thru 0	0.0	20910	0.00000	0.999910	
Mg 279.077	3	Lin Thru 0	0.0	15110	0.00000	0.999980	
Mn 257.610	3	Lin Thru 0	0.0	505000	0.00000	0.999993	
Ni 231.604	3	Lin Thru 0	0.0	20390	0.00000	0.999969	
Pb 220.353	3	Lin Thru 0	0.0	3564	0.00000	0.999932	
Sb 206.836	3	Lin Thru 0	0.0	658.9	0.00000	0.999974	
Se 196.026	3	Lin Thru 0	0.0	514.0	0.00000	0.999933	
Tl 190.801	3	Lin Thru 0	0.0	832.3	0.00000	0.999972	
V 292.402	3	Lin Thru 0	0.0	77220	0.00000	0.999949	
Zn 206.200	3	Lin Thru 0	0.0	10790	0.00000	0.999978	
Cd 226.502	3	Lin Thru 0	0.0	25870	0.00000	0.999972	
Ti 334.940	3	Lin Thru 0	0.0	438000	0.00000	0.999926	
Ca 227.546	3	Lin Thru 0	0.0	134.2	0.00000	0.999778	
Na 589.592	3	Lin Thru 0	0.0	4625	0.00000	0.999689	
K 766.490	3	Lin Thru 0	0.0	1254	0.00000	0.999693	

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Sequence No.: 5

Sample ID: ICV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/19/2012 10:52:37 AM

Data Type: Reprocessed on 6/19/2012 1:48:36 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1313382.3	97.515 %	0.5989			0.61%
Lu 261.542	1136503.9	98.42 %	0.543			0.55%
Ag 328.068†	142332.8	1.2674 mg/L	0.00401	1.2674 mg/L	0.00401	0.32%
QC value within limits for Ag 328.068		Recovery = 101.39%				
Al 308.215†	167196.8	9.5294 mg/L	0.02538	9.5294 mg/L	0.02538	0.27%
QC value within limits for Al 308.215		Recovery = 95.29%				
As 188.979†	320.3	0.47692 mg/L	0.005356	0.47692 mg/L	0.005356	1.12%
QC value within limits for As 188.979		Recovery = 95.38%				
Ba 233.527†	515766.1	9.9690 mg/L	0.03296	9.9690 mg/L	0.03296	0.33%
QC value within limits for Ba 233.527		Recovery = 99.69%				
Be 313.107†	550531.9	0.23927 mg/L	0.000724	0.23927 mg/L	0.000724	0.30%
QC value within limits for Be 313.107		Recovery = 95.71%				
Co 228.616†	59937.8	2.4737 mg/L	0.02219	2.4737 mg/L	0.02219	0.90%
QC value within limits for Co 228.616		Recovery = 98.95%				
Cr 267.716†	45499.1	0.94226 mg/L	0.009589	0.94226 mg/L	0.009589	1.02%
QC value within limits for Cr 267.716		Recovery = 94.23%				
Cu 324.752†	205943.4	1.2143 mg/L	0.00182	1.2143 mg/L	0.00182	0.15%
QC value within limits for Cu 324.752		Recovery = 97.14%				
Fe 273.955†	99710.1	4.7725 mg/L	0.04666	4.7725 mg/L	0.04666	0.98%
QC value within limits for Fe 273.955		Recovery = 95.45%				

Mg 279.077†	367453.3	24.311 mg/L	0.0912	24.311 mg/L	0.0912	0.38%
QC value within limits for Mg 279.077	Recovery = 97.24%					
Mn 257.610†	1235468.6	2.4462 mg/L	0.00646	2.4462 mg/L	0.00646	0.26%
QC value within limits for Mn 257.610	Recovery = 97.85%					
Ni 231.604†	49624.8	2.4335 mg/L	0.02161	2.4335 mg/L	0.02161	0.89%
QC value within limits for Ni 231.604	Recovery = 97.34%					
Pb 220.353†	1686.7	0.47528 mg/L	0.004762	0.47528 mg/L	0.004762	1.00%
QC value within limits for Pb 220.353	Recovery = 95.06%					
Sb 206.836†	321.4	0.47315 mg/L	0.008245	0.47315 mg/L	0.008245	1.74%
QC value within limits for Sb 206.836	Recovery = 94.63%					
Se 196.026†	243.4	0.47899 mg/L	0.022102	0.47899 mg/L	0.022102	4.61%
QC value within limits for Se 196.026	Recovery = 95.80%					
Tl 190.801	391.5	0.44768 mg/L	0.007440	0.44768 mg/L	0.007440	1.66%
QC value less than the lower limit for Tl 190.801	Recovery = 89.54%					
V 292.402†	187673.2	2.4316 mg/L	0.01445	2.4316 mg/L	0.01445	0.59%
QC value within limits for V 292.402	Recovery = 97.26%					
Zn 206.200†	26282.1	2.4414 mg/L	0.02434	2.4414 mg/L	0.02434	1.00%
QC value within limits for Zn 206.200	Recovery = 97.66%					
Cd 226.502†	6098.4	0.23594 mg/L	0.004062	0.23594 mg/L	0.004062	1.72%
QC value within limits for Cd 226.502	Recovery = 94.38%					
Ti 334.940†	210449.6	0.48019 mg/L	0.001308	0.48019 mg/L	0.001308	0.27%
QC value within limits for Ti 334.940	Recovery = Not calculated					
Ca 227.546†	3203.6	23.048 mg/L	0.2524	23.048 mg/L	0.2524	1.10%
QC value within limits for Ca 227.546	Recovery = 92.19%					
Na 589.592†	110643.7	23.924 mg/L	0.1046	23.924 mg/L	0.1046	0.44%
QC value within limits for Na 589.592	Recovery = 95.70%					
K 766.490†	30162.2	24.045 mg/L	0.2090	24.045 mg/L	0.2090	0.87%
QC value within limits for K 766.490	Recovery = 96.18%					
QC Failed. Continue with analysis.						

Sequence No.: 6

Sample ID: ICB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 6/19/2012 10:56:20 AM

Data Type: Reprocessed on 6/19/2012 1:48:38 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1323260.2	98.249 %		1.3932				1.42%
Lu 261.542	1137657.6	98.52 %		1.427				1.45%
Ag 328.068†	840.3	0.00746 mg/L		0.000714	0.00746 mg/L		0.000714	9.57%
QC value within limits for Ag 328.068	Recovery = Not calculated							
Al 308.215†	166.8	0.00952 mg/L		0.002935	0.00952 mg/L		0.002935	30.83%
QC value within limits for Al 308.215	Recovery = Not calculated							
As 188.979†	0.1	0.00010 mg/L		0.002551	0.00010 mg/L		0.002551	>999.9%
QC value within limits for As 188.979	Recovery = Not calculated							
Ba 233.527†	64.6	0.00125 mg/L		0.000316	0.00125 mg/L		0.000316	25.33%
QC value within limits for Ba 233.527	Recovery = Not calculated							
Be 313.107†	21.0	0.00001 mg/L		0.000018	0.00001 mg/L		0.000018	184.37%
QC value within limits for Be 313.107	Recovery = Not calculated							
Co 228.616†	1.2	0.00005 mg/L		0.000114	0.00005 mg/L		0.000114	225.59%
QC value within limits for Co 228.616	Recovery = Not calculated							
Cr 267.716†	6.6	0.00014 mg/L		0.000175	0.00014 mg/L		0.000175	127.58%
QC value within limits for Cr 267.716	Recovery = Not calculated							
Cu 324.752†	156.5	0.00092 mg/L		0.000198	0.00092 mg/L		0.000198	21.43%
QC value within limits for Cu 324.752	Recovery = Not calculated							
Fe 273.955†	-0.1	0.00000 mg/L		0.000331	0.00000 mg/L		0.000331	>999.9%
QC value within limits for Fe 273.955	Recovery = Not calculated							
Mg 279.077†	41.1	0.00272 mg/L		0.002878	0.00272 mg/L		0.002878	105.85%
QC value within limits for Mg 279.077	Recovery = Not calculated							
Mn 257.610†	114.2	0.00023 mg/L		0.000087	0.00023 mg/L		0.000087	38.57%
QC value within limits for Mn 257.610	Recovery = Not calculated							
Ni 231.604†	16.0	0.00078 mg/L		0.000380	0.00078 mg/L		0.000380	48.58%
QC value within limits for Ni 231.604	Recovery = Not calculated							
Pb 220.353†	3.2	0.00091 mg/L		0.000553	0.00091 mg/L		0.000553	60.87%
QC value within limits for Pb 220.353	Recovery = Not calculated							
Sb 206.836†	3.4	0.00513 mg/L		0.000637	0.00513 mg/L		0.000637	12.42%

QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† -0.6 -0.00121 mg/L 0.006430 -0.00121 mg/L 0.006430 531.89%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Tl 190.801 4.4 0.00524 mg/L 0.001819 0.00524 mg/L 0.001819 34.70%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† 36.6 0.00047 mg/L 0.000238 0.00047 mg/L 0.000238 50.29%
 QC value within limits for V 292.402 Recovery = Not calculated
 Zn 206.200† 28.0 0.00259 mg/L 0.000203 0.00259 mg/L 0.000203 7.81%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Cd 226.502† -0.9 -0.00003 mg/L 0.000110 -0.00003 mg/L 0.000110 319.70%
 QC value within limits for Cd 226.502 Recovery = Not calculated
 Ti 334.940† 109.3 0.00025 mg/L 0.000076 0.00025 mg/L 0.000076 30.64%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† -0.6 -0.00475 mg/L 0.025567 -0.00475 mg/L 0.025567 538.06%
 QC value within limits for Ca 227.546 Recovery = Not calculated
 Na 589.592† 26.5 0.00573 mg/L 0.012743 0.00573 mg/L 0.012743 222.43%
 QC value within limits for Na 589.592 Recovery = Not calculated
 K 766.490† 91.4 0.07283 mg/L 0.062315 0.07283 mg/L 0.062315 85.56%
 QC value within limits for K 766.490 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 7

Sample ID: LLICV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 6/19/2012 11:00:08 AM

Data Type: Reprocessed on 6/19/2012 1:48:39 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1318819.2	97.919 %	1.0291			1.05%
Lu 261.542	1135061.3	98.30 %	1.157			1.18%
Ag 328.068†	4069.8	0.03621 mg/L	0.000615	0.03621 mg/L	0.000615	1.70%
QC value within limits for Ag 328.068		Recovery = 120.69%				
Al 308.215†	3540.4	0.20171 mg/L	0.009160	0.20171 mg/L	0.009160	4.54%
QC value within limits for Al 308.215		Recovery = 100.86%				
As 188.979†	11.9	0.01757 mg/L	0.008927	0.01757 mg/L	0.008927	50.81%
QC value within limits for As 188.979		Recovery = 87.84%				
Ba 233.527†	11116.6	0.21487 mg/L	0.004440	0.21487 mg/L	0.004440	2.07%
QC value within limits for Ba 233.527		Recovery = 107.43%				
Be 313.107†	11689.7	0.00510 mg/L	0.000094	0.00510 mg/L	0.000094	1.85%
QC value within limits for Be 313.107		Recovery = 101.95%				
Co 228.616†	1277.6	0.05270 mg/L	0.000415	0.05270 mg/L	0.000415	0.79%
QC value within limits for Co 228.616		Recovery = 105.40%				
Cr 267.716†	974.8	0.02019 mg/L	0.000276	0.02019 mg/L	0.000276	1.37%
QC value within limits for Cr 267.716		Recovery = 100.94%				
Cu 324.752†	5184.4	0.03057 mg/L	0.000769	0.03057 mg/L	0.000769	2.52%
QC value within limits for Cu 324.752		Recovery = 101.91%				
Fe 273.955†	4260.4	0.20383 mg/L	0.003338	0.20383 mg/L	0.003338	1.64%
QC value within limits for Fe 273.955		Recovery = 101.92%				
Mg 279.077†	8030.2	0.53129 mg/L	0.010715	0.53129 mg/L	0.010715	2.02%
QC value within limits for Mg 279.077		Recovery = 106.26%				
Mn 257.610†	26855.6	0.05317 mg/L	0.001266	0.05317 mg/L	0.001266	2.38%
QC value within limits for Mn 257.610		Recovery = 106.35%				
Ni 231.604†	1093.9	0.05363 mg/L	0.000640	0.05363 mg/L	0.000640	1.19%
QC value within limits for Ni 231.604		Recovery = 107.27%				
Pb 220.353†	37.1	0.01047 mg/L	0.001820	0.01047 mg/L	0.001820	17.39%
QC value within limits for Pb 220.353		Recovery = 104.68%				
Sb 206.836†	14.4	0.02155 mg/L	0.001587	0.02155 mg/L	0.001587	7.36%
QC value within limits for Sb 206.836		Recovery = 107.77%				
Se 196.026†	19.4	0.03783 mg/L	0.013075	0.03783 mg/L	0.013075	34.57%
QC value within limits for Se 196.026		Recovery = 126.09%				
Tl 190.801	16.5	0.01934 mg/L	0.007115	0.01934 mg/L	0.007115	36.79%
QC value within limits for Tl 190.801		Recovery = 96.71%				
V 292.402†	3965.1	0.05136 mg/L	0.001341	0.05136 mg/L	0.001341	2.61%
QC value within limits for V 292.402		Recovery = 102.73%				
Zn 206.200†	579.7	0.05386 mg/L	0.000443	0.05386 mg/L	0.000443	0.82%
QC value within limits for Zn 206.200		Recovery = 107.73%				

Cd 226.502† 134.5 0.00519 mg/L 0.000171 0.00519 mg/L 0.000171 3.30%
 QC value within limits for Cd 226.502 Recovery = 103.88%
 Ti 334.940† 8559.9 0.01954 mg/L 0.000383 0.01954 mg/L 0.000383 1.96%
 QC value within limits for Ti 334.940 Recovery = 97.70%
 Ca 227.546† 104.1 0.75741 mg/L 0.046993 0.75741 mg/L 0.046993 6.20%
 QC value within limits for Ca 227.546 Recovery = 94.68%
 Na 589.592† 4865.0 1.0519 mg/L 0.01877 1.0519 mg/L 0.01877 1.78%
 QC value within limits for Na 589.592 Recovery = 105.19%
 K 766.490† 1303.2 1.0389 mg/L 0.01263 1.0389 mg/L 0.01263 1.22%
 QC value within limits for K 766.490 Recovery = 103.89%
 All analyte(s) passed QC.

Sequence No.: 8

Sample ID: ICSA

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 6/19/2012 11:03:47 AM

Data Type: Reprocessed on 6/19/2012 1:48:40 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1160980.0	86.200 %		0.8463			0.98%
Lu 261.542	1002773.3	86.84 %		0.952			1.10%
Ag 328.068†	-291.8	-0.01330 mg/L		0.000391	-0.01330 mg/L	0.000391	2.94%
QC value within limits for Ag 328.068			Recovery =	Not calculated			
Al 308.215†	9219103.2	525.86 mg/L		10.224	525.86 mg/L	10.224	1.94%
QC value within limits for Al 308.215			Recovery =	105.17%			
As 188.979†	-26.0	-0.01283 mg/L		0.007546	-0.01283 mg/L	0.007546	58.81%
QC value within limits for As 188.979			Recovery =	Not calculated			
Ba 233.527†	114.8	0.00220 mg/L		0.000171	0.00220 mg/L	0.000171	7.77%
QC value within limits for Ba 233.527			Recovery =	Not calculated			
Be 313.107†	-161.8	-0.00009 mg/L		0.000020	-0.00009 mg/L	0.000020	20.71%
QC value within limits for Be 313.107			Recovery =	Not calculated			
Co 228.616†	117.0	0.00030 mg/L		0.000211	0.00030 mg/L	0.000211	69.72%
QC value within limits for Co 228.616			Recovery =	Not calculated			
Cr 267.716†	210.5	0.00112 mg/L		0.000247	0.00112 mg/L	0.000247	22.04%
QC value within limits for Cr 267.716			Recovery =	Not calculated			
Cu 324.752†	-2048.3	0.00536 mg/L		0.000468	0.00536 mg/L	0.000468	8.72%
QC value within limits for Cu 324.752			Recovery =	Not calculated			
Fe 273.955†	3951323.0	188.97 mg/L		0.781	188.97 mg/L	0.781	0.41%
QC value within limits for Fe 273.955			Recovery =	94.48%			
Mg 279.077†	7560977.3	500.29 mg/L		10.302	500.29 mg/L	10.302	2.06%
QC value within limits for Mg 279.077			Recovery =	100.06%			
Mn 257.610†	-449.2	-0.00589 mg/L		0.000116	-0.00589 mg/L	0.000116	1.97%
QC value within limits for Mn 257.610			Recovery =	Not calculated			
Ni 231.604†	-7.8	-0.00251 mg/L		0.000384	-0.00251 mg/L	0.000384	15.31%
QC value within limits for Ni 231.604			Recovery =	Not calculated			
Pb 220.353†	-142.1	0.01043 mg/L		0.001876	0.01043 mg/L	0.001876	17.98%
QC value within limits for Pb 220.353			Recovery =	Not calculated			
Sb 206.836†	14.6	-0.00448 mg/L		0.005930	-0.00448 mg/L	0.005930	132.23%
QC value within limits for Sb 206.836			Recovery =	Not calculated			
Se 196.026†	-49.6	-0.00552 mg/L		0.014144	-0.00552 mg/L	0.014144	256.15%
QC value within limits for Se 196.026			Recovery =	Not calculated			
Tl 190.801	-30.8	0.01000 mg/L		0.005391	0.01000 mg/L	0.005391	53.92%
QC value within limits for Tl 190.801			Recovery =	Not calculated			
V 292.402†	-925.6	-0.00614 mg/L		0.000222	-0.00614 mg/L	0.000222	3.61%
QC value within limits for V 292.402			Recovery =	Not calculated			
Zn 206.200†	31.6	0.01238 mg/L		0.000808	0.01238 mg/L	0.000808	6.53%
QC value within limits for Zn 206.200			Recovery =	Not calculated			
Cd 226.502†	564.1	0.00624 mg/L		0.000411	0.00624 mg/L	0.000411	6.58%
QC value within limits for Cd 226.502			Recovery =	Not calculated			
Ti 334.940†	-5829.7	-0.01332 mg/L		0.000067	-0.01332 mg/L	0.000067	0.51%
QC value within limits for Ti 334.940			Recovery =	Not calculated			
Ca 227.546†	72761.4	540.47 mg/L		1.440	540.47 mg/L	1.440	0.27%
QC value within limits for Ca 227.546			Recovery =	108.09%			
Na 589.592†	879.6	0.19020 mg/L		0.008581	0.19020 mg/L	0.008581	4.51%
QC value within limits for Na 589.592			Recovery =	Not calculated			
K 766.490†	359.7	0.28676 mg/L		0.036236	0.28676 mg/L	0.036236	12.64%

QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/19/2012 11:07:35 AM
Data Type: Reprocessed on 6/19/2012 1:48:41 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1173634.9	87.140 %	1.3988			1.61%
Lu 261.542	1014833.3	87.88 %	1.307			1.49%
Ag 328.068†	25512.2	0.21664 mg/L	0.002078	0.21664 mg/L	0.002078	0.96%
QC value within limits for Ag		328.068	Recovery = 108.32%			
Al 308.215†	9180863.8	523.68 mg/L	7.854	523.68 mg/L	7.854	1.50%
QC value within limits for Al		308.215	Recovery = 104.74%			
As 188.979†	39.0	0.08654 mg/L	0.015279	0.08654 mg/L	0.015279	17.66%
QC value within limits for As		188.979	Recovery = 86.54%			
Ba 233.527†	27664.1	0.53522 mg/L	0.005998	0.53522 mg/L	0.005998	1.12%
QC value within limits for Ba		233.527	Recovery = 107.04%			
Be 313.107†	1167522.0	0.50539 mg/L	0.004891	0.50539 mg/L	0.004891	0.97%
QC value within limits for Be		313.107	Recovery = 101.08%			
Co 228.616†	11543.2	0.47202 mg/L	0.009701	0.47202 mg/L	0.009701	2.06%
QC value within limits for Co		228.616	Recovery = 94.40%			
Cr 267.716†	24371.7	0.50151 mg/L	0.006088	0.50151 mg/L	0.006088	1.21%
QC value within limits for Cr		267.716	Recovery = 100.30%			
Cu 324.752†	89173.9	0.54293 mg/L	0.005247	0.54293 mg/L	0.005247	0.97%
QC value within limits for Cu		324.752	Recovery = 108.59%			
Fe 273.955†	3965011.5	189.62 mg/L	1.796	189.62 mg/L	1.796	0.95%
QC value within limits for Fe		273.955	Recovery = 94.81%			
Mg 279.077†	7492342.8	495.74 mg/L	7.638	495.74 mg/L	7.638	1.54%
QC value within limits for Mg		279.077	Recovery = 99.15%			
Mn 257.610†	255850.5	0.50165 mg/L	0.004556	0.50165 mg/L	0.004556	0.91%
QC value within limits for Mn		257.610	Recovery = 100.33%			
Ni 231.604†	18796.2	0.91981 mg/L	0.018324	0.91981 mg/L	0.018324	1.99%
QC value within limits for Ni		231.604	Recovery = 91.98%			
Pb 220.353†	1623.6	0.50578 mg/L	0.011400	0.50578 mg/L	0.011400	2.25%
QC value within limits for Pb		220.353	Recovery = 101.16%			
Sb 206.836†	455.7	0.65624 mg/L	0.013609	0.65624 mg/L	0.013609	2.07%
QC value within limits for Sb		206.836	Recovery = 109.37%			
Se 196.026†	212.8	0.50596 mg/L	0.043022	0.50596 mg/L	0.043022	8.50%
QC value within limits for Se		196.026	Recovery = 101.19%			
Tl 190.801	36.9	0.08647 mg/L	0.004552	0.08647 mg/L	0.004552	5.26%
QC value within limits for Tl		190.801	Recovery = 86.47%			
V 292.402†	38047.1	0.49955 mg/L	0.003843	0.49955 mg/L	0.003843	0.77%
QC value within limits for V		292.402	Recovery = 99.91%			
Zn 206.200†	10084.4	0.94585 mg/L	0.021957	0.94585 mg/L	0.021957	2.32%
QC value within limits for Zn		206.200	Recovery = 94.58%			
Cd 226.502†	24257.7	0.92230 mg/L	0.020835	0.92230 mg/L	0.020835	2.26%
QC value within limits for Cd		226.502	Recovery = 92.23%			
Ti 334.940†	-5691.1	-0.01297 mg/L	0.000136	-0.01297 mg/L	0.000136	1.05%
QC value within limits for Ti		334.940	Recovery = Not calculated			
Ca 227.546†	73026.7	542.28 mg/L	4.609	542.28 mg/L	4.609	0.85%
QC value within limits for Ca		227.546	Recovery = 108.46%			
Na 589.592†	130494.7	28.217 mg/L	0.4816	28.217 mg/L	0.4816	1.71%
QC value within limits for Na		589.592	Recovery = 112.87%			
K 766.490†	35779.3	28.523 mg/L	0.4084	28.523 mg/L	0.4084	1.43%
QC value within limits for K		766.490	Recovery = 114.09%			

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:

Autosampler Location: 3
Date Collected: 6/19/2012 11:11:24 AM
Data Type: Reprocessed on 6/19/2012 1:48:41 PM
Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1311647.4	97.387 %	1.4590			1.50%
Lu 261.542	1135735.8	98.35 %	1.371			1.39%
Ag 328.068†	143415.8	1.2770 mg/L	0.00433	1.2770 mg/L	0.00433	0.34%
QC value within limits for Ag		328.068 Recovery = 102.16%				
Al 308.215†	170220.9	9.7018 mg/L	0.03385	9.7018 mg/L	0.03385	0.35%
QC value within limits for Al		308.215 Recovery = 97.02%				
As 188.979†	320.7	0.47754 mg/L	0.003776	0.47754 mg/L	0.003776	0.79%
QC value within limits for As		188.979 Recovery = 95.51%				
Ba 233.527†	521670.0	10.083 mg/L	0.0573	10.083 mg/L	0.0573	0.57%
QC value within limits for Ba		233.527 Recovery = 100.83%				
Be 313.107†	555364.1	0.24138 mg/L	0.000912	0.24138 mg/L	0.000912	0.38%
QC value within limits for Be		313.107 Recovery = 96.55%				
Co 228.616†	60678.8	2.5043 mg/L	0.04275	2.5043 mg/L	0.04275	1.71%
QC value within limits for Co		228.616 Recovery = 100.17%				
Cr 267.716†	46082.9	0.95435 mg/L	0.014923	0.95435 mg/L	0.014923	1.56%
QC value within limits for Cr		267.716 Recovery = 95.43%				
Cu 324.752†	208899.7	1.2317 mg/L	0.00628	1.2317 mg/L	0.00628	0.51%
QC value within limits for Cu		324.752 Recovery = 98.54%				
Fe 273.955†	101882.4	4.8764 mg/L	0.06653	4.8764 mg/L	0.06653	1.36%
QC value within limits for Fe		273.955 Recovery = 97.53%				
Mg 279.077†	371163.1	24.556 mg/L	0.0898	24.556 mg/L	0.0898	0.37%
QC value within limits for Mg		279.077 Recovery = 98.23%				
Mn 257.610†	1245817.7	2.4667 mg/L	0.01018	2.4667 mg/L	0.01018	0.41%
QC value within limits for Mn		257.610 Recovery = 98.67%				
Ni 231.604†	50373.3	2.4702 mg/L	0.03625	2.4702 mg/L	0.03625	1.47%
QC value within limits for Ni		231.604 Recovery = 98.81%				
Pb 220.353†	1696.7	0.47812 mg/L	0.006474	0.47812 mg/L	0.006474	1.35%
QC value within limits for Pb		220.353 Recovery = 95.62%				
Sb 206.836†	320.1	0.47109 mg/L	0.005289	0.47109 mg/L	0.005289	1.12%
QC value within limits for Sb		206.836 Recovery = 94.22%				
Se 196.026†	244.9	0.48192 mg/L	0.005504	0.48192 mg/L	0.005504	1.14%
QC value within limits for Se		196.026 Recovery = 96.38%				
Tl 190.801	394.7	0.45138 mg/L	0.001372	0.45138 mg/L	0.001372	0.30%
QC value within limits for Tl		190.801 Recovery = 90.28%				
V 292.402†	188816.4	2.4464 mg/L	0.00836	2.4464 mg/L	0.00836	0.34%
QC value within limits for V		292.402 Recovery = 97.86%				
Zn 206.200†	26595.8	2.4706 mg/L	0.02869	2.4706 mg/L	0.02869	1.16%
QC value within limits for Zn		206.200 Recovery = 98.82%				
Cd 226.502†	6213.5	0.24039 mg/L	0.002513	0.24039 mg/L	0.002513	1.05%
QC value within limits for Cd		226.502 Recovery = 96.16%				
Ti 334.940†	214122.6	0.48858 mg/L	0.004021	0.48858 mg/L	0.004021	0.82%
QC value within limits for Ti		334.940 Recovery = Not calculated				
Ca 227.546†	3244.4	23.341 mg/L	0.2210	23.341 mg/L	0.2210	0.95%
QC value within limits for Ca		227.546 Recovery = 93.36%				
Na 589.592†	112026.0	24.223 mg/L	0.4928	24.223 mg/L	0.4928	2.03%
QC value within limits for Na		589.592 Recovery = 96.89%				
K 766.490†	30552.0	24.356 mg/L	0.5012	24.356 mg/L	0.5012	2.06%
QC value within limits for K		766.490 Recovery = 97.42%				

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 6/19/2012 11:15:09 AM

Data Type: Reprocessed on 6/19/2012 1:48:42 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1363887.7	101.27 %	1.121			1.11%
Lu 261.542	1175545.0	101.8 %	1.01			0.99%
Ag 328.068†	15.8	0.00014 mg/L	0.000179	0.00014 mg/L	0.000179	127.13%

Al	308.215†	238.8	0.01363 mg/L	0.004292	0.01363 mg/L	0.004292	31.50%
QC value within limits for Al 308.215 Recovery = Not calculated							
As	188.979†	0.8	0.00123 mg/L	0.001591	0.00123 mg/L	0.001591	129.18%
QC value within limits for As 188.979 Recovery = Not calculated							
Ba	233.527†	68.3	0.00132 mg/L	0.000306	0.00132 mg/L	0.000306	23.20%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be	313.107†	77.9	0.00003 mg/L	0.000013	0.00003 mg/L	0.000013	37.71%
QC value within limits for Be 313.107 Recovery = Not calculated							
Co	228.616†	4.5	0.00018 mg/L	0.000172	0.00018 mg/L	0.000172	93.81%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	7.0	0.00014 mg/L	0.000232	0.00014 mg/L	0.000232	160.60%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	83.1	0.00049 mg/L	0.000289	0.00049 mg/L	0.000289	58.96%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	273.955†	98.3	0.00470 mg/L	0.000525	0.00470 mg/L	0.000525	11.17%
QC value within limits for Fe 273.955 Recovery = Not calculated							
Mg	279.077†	255.5	0.01690 mg/L	0.002328	0.01690 mg/L	0.002328	13.77%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn	257.610†	107.5	0.00021 mg/L	0.000078	0.00021 mg/L	0.000078	36.78%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni	231.604†	9.9	0.00049 mg/L	0.000127	0.00049 mg/L	0.000127	26.25%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	1.0	0.00027 mg/L	0.000772	0.00027 mg/L	0.000772	280.80%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	3.3	0.00506 mg/L	0.001489	0.00506 mg/L	0.001489	29.43%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	7.3	0.01429 mg/L	0.005280	0.01429 mg/L	0.005280	36.95%
QC value within limits for Se 196.026 Recovery = Not calculated							
Tl	190.801	1.9	0.00223 mg/L	0.005096	0.00223 mg/L	0.005096	228.44%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V	292.402†	18.8	0.00024 mg/L	0.000230	0.00024 mg/L	0.000230	94.34%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	206.200†	23.1	0.00214 mg/L	0.000355	0.00214 mg/L	0.000355	16.59%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Cd	226.502†	-0.6	-0.00002 mg/L	0.000152	-0.00002 mg/L	0.000152	611.08%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Ti	334.940†	69.2	0.00016 mg/L	0.000055	0.00016 mg/L	0.000055	35.30%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca	227.546†	-2.8	-0.02063 mg/L	0.070346	-0.02063 mg/L	0.070346	341.05%
QC value within limits for Ca 227.546 Recovery = Not calculated							
Na	589.592†	90.3	0.01952 mg/L	0.010420	0.01952 mg/L	0.010420	53.39%
QC value within limits for Na 589.592 Recovery = Not calculated							
K	766.490†	16.7	0.01334 mg/L	0.023512	0.01334 mg/L	0.023512	176.26%
QC value within limits for K 766.490 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 12

Sample ID: MB-66781-PBS

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 6/19/2012 11:18:48 AM

Data Type: Reprocessed on 6/19/2012 1:48:43 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MB-66781-PBS

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1321573.3	98.124 %		0.8025			0.82%
Lu 261.542	1137956.0	98.55 %		0.855			0.87%
Ag 328.068†	58.5	0.00052 mg/L		0.000249	0.00052 mg/L	0.000249	47.93%
Al 308.215†	263.8	0.01504 mg/L		0.004442	0.01504 mg/L	0.004442	29.54%
As 188.979†	2.1	0.00313 mg/L		0.005516	0.00313 mg/L	0.005516	176.15%
Ba 233.527†	96.4	0.00186 mg/L		0.000234	0.00186 mg/L	0.000234	12.54%
Be 313.107†	-21.6	-0.00001 mg/L		0.000028	-0.00001 mg/L	0.000028	326.59%
Co 228.616†	-1.9	-0.00008 mg/L		0.000019	-0.00008 mg/L	0.000019	23.09%
Cr 267.716†	12.9	0.00027 mg/L		0.000123	0.00027 mg/L	0.000123	46.19%
Cu 324.752†	663.8	0.00391 mg/L		0.000855	0.00391 mg/L	0.000855	21.85%
Fe 273.955†	399.5	0.01911 mg/L		0.000502	0.01911 mg/L	0.000502	2.63%
Mg 279.077†	87.0	0.00575 mg/L		0.002691	0.00575 mg/L	0.002691	46.76%

Mn 257.610†	1285.6	0.00255 mg/L	0.000071	0.00255 mg/L	0.000071	2.79%
Ni 231.604†	2.5	0.00012 mg/L	0.000166	0.00012 mg/L	0.000166	134.23%
Pb 220.353†	0.6	0.00016 mg/L	0.002653	0.00016 mg/L	0.002653	>999.9%
Sb 206.836†	11.2	0.01703 mg/L	0.005161	0.01703 mg/L	0.005161	30.31%
Se 196.026†	2.8	0.00555 mg/L	0.001452	0.00555 mg/L	0.001452	26.16%
Tl 190.801	1.7	0.00205 mg/L	0.003011	0.00205 mg/L	0.003011	147.00%
V 292.402†	30.1	0.00039 mg/L	0.000316	0.00039 mg/L	0.000316	81.11%
Zn 206.200†	77.0	0.00715 mg/L	0.000827	0.00715 mg/L	0.000827	11.57%
Cd 226.502†	-1.3	-0.00005 mg/L	0.000104	-0.00005 mg/L	0.000104	202.82%
Ti 334.940†	159.7	0.00036 mg/L	0.000114	0.00036 mg/L	0.000114	31.13%
Ca 227.546†	5.6	0.04181 mg/L	0.101183	0.04181 mg/L	0.101183	242.00%
Na 589.592†	14.5	0.00313 mg/L	0.033463	0.00313 mg/L	0.033463	>999.9%
K 766.490†	8.2	0.00657 mg/L	0.027595	0.00657 mg/L	0.027595	420.33%

Sequence No.: 13

Sample ID: LCS-66781~LCS

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 6/19/2012 11:22:27 AM

Data Type: Reprocessed on 6/19/2012 1:48:44 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LCS-66781~LCS

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	1273094.4	94.524 %		0.3229			0.34%
Lu 261.542	1103458.5	95.56 %		0.227			0.24%
Ag 328.068†	133258.9	1.1866 mg/L		0.00304	1.1866 mg/L	0.00304	0.26%
Al 308.215†	157472.7	8.9759 mg/L		0.03829	8.9759 mg/L	0.03829	0.43%
As 188.979†	309.4	0.46060 mg/L		0.005065	0.46060 mg/L	0.005065	1.10%
Ba 233.527†	486530.4	9.4039 mg/L		0.04058	9.4039 mg/L	0.04058	0.43%
Be 313.107†	527180.0	0.22827 mg/L		0.001032	0.22827 mg/L	0.001032	0.45%
Co 228.616†	54778.1	2.2617 mg/L		0.02083	2.2617 mg/L	0.02083	0.92%
Cr 267.716†	43768.9	0.90642 mg/L		0.007611	0.90642 mg/L	0.007611	0.84%
Cu 324.752†	195184.6	1.1509 mg/L		0.00617	1.1509 mg/L	0.00617	0.54%
Fe 273.955†	95287.3	4.5607 mg/L		0.03877	4.5607 mg/L	0.03877	0.85%
Mg 279.077†	344220.3	22.774 mg/L		0.1317	22.774 mg/L	0.1317	0.58%
Mn 257.610†	1161745.8	2.3002 mg/L		0.01063	2.3002 mg/L	0.01063	0.46%
Ni 231.604†	46147.7	2.2633 mg/L		0.02540	2.2633 mg/L	0.02540	1.12%
Pb 220.353†	1618.2	0.45547 mg/L		0.001914	0.45547 mg/L	0.001914	0.42%
Sb 206.836†	328.7	0.48373 mg/L		0.002677	0.48373 mg/L	0.002677	0.55%
Se 196.026†	220.5	0.43379 mg/L		0.015753	0.43379 mg/L	0.015753	3.63%
Tl 190.801	360.6	0.41218 mg/L		0.001667	0.41218 mg/L	0.001667	0.40%
V 292.402†	175973.1	2.2807 mg/L		0.00608	2.2807 mg/L	0.00608	0.27%
Zn 206.200†	23907.0	2.2206 mg/L		0.02604	2.2206 mg/L	0.02604	1.17%
Cd 226.502†	5803.4	0.22451 mg/L		0.003222	0.22451 mg/L	0.003222	1.44%
Ti 334.940†	348.6	0.00056 mg/L		0.000059	0.00056 mg/L	0.000059	10.56%
Ca 227.546†	3016.9	21.725 mg/L		0.0807	21.725 mg/L	0.0807	0.37%
Na 589.592†	106356.7	22.997 mg/L		0.1288	22.997 mg/L	0.1288	0.56%
K 766.490†	28631.4	22.825 mg/L		0.1362	22.825 mg/L	0.1362	0.60%

Sequence No.: 14

Sample ID: L1326-04A~GP-23 0-2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 6/19/2012 11:26:08 AM

Data Type: Reprocessed on 6/19/2012 1:48:45 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1326-04A~GP-23 0-2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	1242075.8	92.221 %		0.4561			0.49%
Lu 261.542	992669.5	85.97 %		0.395			0.46%
Ag 328.068†	-642.4	-0.01737 mg/L		0.000348	-0.01737 mg/L	0.000348	2.01%
Al 308.215†	1642963.2	93.519 mg/L		0.1836	93.519 mg/L	0.1836	0.20%
As 188.979†	-10.6	0.02019 mg/L		0.003270	0.02019 mg/L	0.003270	16.20%
Ba 233.527†	27350.3	0.52882 mg/L		0.002819	0.52882 mg/L	0.002819	0.53%
Be 313.107†	-7572.6	0.00165 mg/L		0.000019	0.00165 mg/L	0.000019	1.18%

Co	228.616†	2227.5	0.08079 mg/L	0.000300	0.08079 mg/L	0.000300	0.37%
Cr	267.716†	8117.6	0.16526 mg/L	0.000582	0.16526 mg/L	0.000582	0.35%
Cu	324.752†	34161.4	0.22046 mg/L	0.000952	0.22046 mg/L	0.000952	0.43%
Fe	273.955†	4345487.7	207.82 mg/L	0.644	207.82 mg/L	0.644	0.31%
Mg	279.077†	3504259.1	231.87 mg/L	0.904	231.87 mg/L	0.904	0.39%
Mn	257.610†	3493450.7	6.9156 mg/L	0.02087	6.9156 mg/L	0.02087	0.30%
Ni	231.604†	3406.2	0.16451 mg/L	0.000677	0.16451 mg/L	0.000677	0.41%
Pb	220.353†	195.6	0.06325 mg/L	0.003583	0.06325 mg/L	0.003583	5.66%
Sb	206.836†	9.6	0.00671 mg/L	0.003487	0.00671 mg/L	0.003487	51.94%
Se	196.026†	-50.4	-0.00699 mg/L	0.004810	-0.00699 mg/L	0.004810	68.80%
Tl	190.801	-24.4	0.00359 mg/L	0.004053	0.00359 mg/L	0.004053	112.85%
V	292.402†	19773.7	0.25905 mg/L	0.000514	0.25905 mg/L	0.000514	0.20%
Zn	206.200†	5125.1	0.49100 mg/L	0.001922	0.49100 mg/L	0.001922	0.39%
Cd	226.502†	664.3	0.00762 mg/L	0.000087	0.00762 mg/L	0.000087	1.15%
Ti	334.940†	1170977.6	2.6854 mg/L	0.00772	2.6854 mg/L	0.00772	0.29%
Ca	227.546†	130766.0	972.65 mg/L	5.643	972.65 mg/L	5.643	0.58%
Concentration greater than upper limit for Ca 227.546.							
Na	589.592†	11466.5	2.4794 mg/L	0.01916	2.4794 mg/L	0.01916	0.77%
K	766.490†	17427.5	13.893 mg/L	0.1601	13.893 mg/L	0.1601	1.15%

Sequence No.: 15

Sample ID: L1326-06B-GP-24 8-12

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 41

Date Collected: 6/19/2012 11:29:49 AM

Data Type: Reprocessed on 6/19/2012 1:48:46 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1326-06B-GP-24 8-12

	Mean Corrected		Calib.			Sample		
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	1264518.4	93.887	%	0.7063				0.75%
Lu 261.542	1021362.0	88.45	%	0.769				0.87%
Ag 328.068†	-480.5	-0.01291	mg/L	0.000796	-0.01291	mg/L	0.000796	6.17%
Al 308.215†	885253.2	50.341	mg/L	0.2178	50.341	mg/L	0.2178	0.43%
As 188.979†	-5.7	0.01551	mg/L	0.006661	0.01551	mg/L	0.006661	42.94%
Ba 233.527†	15918.8	0.30779	mg/L	0.003883	0.30779	mg/L	0.003883	1.26%
Be 313.107†	-3278.7	0.00105	mg/L	0.000043	0.00105	mg/L	0.000043	4.08%
Co 228.616†	1347.2	0.04967	mg/L	0.000790	0.04967	mg/L	0.000790	1.59%
Cr 267.716†	5001.7	0.10142	mg/L	0.001524	0.10142	mg/L	0.001524	1.50%
Cu 324.752†	20121.1	0.12950	mg/L	0.001516	0.12950	mg/L	0.001516	1.17%
Fe 273.955†	2479389.2	118.57	mg/L	0.698	118.57	mg/L	0.698	0.59%
Mg 279.077†	2869575.6	189.87	mg/L	1.179	189.87	mg/L	1.179	0.62%
Mn 257.610†	2389135.5	4.7292	mg/L	0.02632	4.7292	mg/L	0.02632	0.56%
Ni 231.604†	2026.8	0.09782	mg/L	0.000809	0.09782	mg/L	0.000809	0.83%
Pb 220.353†	79.2	0.02657	mg/L	0.001542	0.02657	mg/L	0.001542	5.80%
Sb 206.836†	10.8	0.01078	mg/L	0.006564	0.01078	mg/L	0.006564	60.88%
Se 196.026†	-28.4	-0.00351	mg/L	0.014075	-0.00351	mg/L	0.014075	401.28%
Tl 190.801	-18.8	-0.00143	mg/L	0.005355	-0.00143	mg/L	0.005355	373.51%
V 292.402†	11629.0	0.15258	mg/L	0.001243	0.15258	mg/L	0.001243	0.81%
Zn 206.200†	2943.8	0.28213	mg/L	0.004623	0.28213	mg/L	0.004623	1.64%
Cd 226.502†	357.6	0.00304	mg/L	0.000289	0.00304	mg/L	0.000289	9.51%
Ti 334.940†	585706.8	1.3461	mg/L	0.00580	1.3461	mg/L	0.00580	0.43%
Ca 227.546†	99634.1	741.41	mg/L	8.845	741.41	mg/L	8.845	1.19%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592†	11128.0	2.4062	mg/L	0.03242	2.4062	mg/L	0.03242	1.35%
K 766.490†	8292.1	6.6104	mg/L	0.05838	6.6104	mg/L	0.05838	0.88%

Sequence No.: 16

Sample ID: L1326-06BDUP-GP-24 8-12D

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 42

Date Collected: 6/19/2012 11:33:30 AM

Data Type: Reprocessed on 6/19/2012 1:48:46 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1326-06BDUP-GP-24 8-12D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

Y 360.073	1279203.5	94.978 %	0.3216			0.34%
Lu 261.542	1031240.2	89.31 %	0.315			0.35%
Ag 328.068†	-471.2	-0.01299 mg/L	0.000365	-0.01299 mg/L	0.000365	2.81%
Al 308.215†	1017770.8	57.899 mg/L	0.2229	57.899 mg/L	0.2229	0.38%
As 188.979†	-7.1	0.01483 mg/L	0.006252	0.01483 mg/L	0.006252	42.15%
Ba 233.527†	16423.3	0.31756 mg/L	0.002774	0.31756 mg/L	0.002774	0.87%
Be 313.107†	-3675.4	0.00117 mg/L	0.000062	0.00117 mg/L	0.000062	5.31%
Co 228.616†	1501.6	0.05534 mg/L	0.000235	0.05534 mg/L	0.000235	0.42%
Cr 267.716†	5519.4	0.11207 mg/L	0.001706	0.11207 mg/L	0.001706	1.52%
Cu 324.752†	21083.3	0.13644 mg/L	0.001730	0.13644 mg/L	0.001730	1.27%
Fe 273.955†	2768430.0	132.40 mg/L	0.621	132.40 mg/L	0.621	0.47%
Mg 279.077†	2988491.3	197.74 mg/L	1.009	197.74 mg/L	1.009	0.51%
Mn 257.610†	2462836.8	4.8751 mg/L	0.02032	4.8751 mg/L	0.02032	0.42%
Ni 231.604†	2270.1	0.10963 mg/L	0.000426	0.10963 mg/L	0.000426	0.39%
Pb 220.353†	82.8	0.02824 mg/L	0.002942	0.02824 mg/L	0.002942	10.42%
Sb 206.836†	6.6	0.00396 mg/L	0.001461	0.00396 mg/L	0.001461	36.91%
Se 196.026†	-36.6	-0.01335 mg/L	0.012552	-0.01335 mg/L	0.012552	94.04%
Tl 190.801	-22.7	-0.00433 mg/L	0.001760	-0.00433 mg/L	0.001760	40.69%
V 292.402†	12867.2	0.16883 mg/L	0.002330	0.16883 mg/L	0.002330	1.38%
Zn 206.200†	3212.7	0.30797 mg/L	0.001322	0.30797 mg/L	0.001322	0.43%
Cd 226.502†	399.3	0.00359 mg/L	0.000132	0.00359 mg/L	0.000132	3.67%
Ti 334.940†	656467.5	1.5077 mg/L	0.00921	1.5077 mg/L	0.00921	0.61%
Ca 227.546†	100769.1	749.75 mg/L	7.660	749.75 mg/L	7.660	1.02%
Concentration greater than upper limit for Ca 227.546.						
Na 589.592†	11952.6	2.5845 mg/L	0.03866	2.5845 mg/L	0.03866	1.50%
K 766.490†	9119.2	7.2698 mg/L	0.15842	7.2698 mg/L	0.15842	2.18%

Sequence No.: 17

Sample ID: L1326-06BMS-GP-24 8-12S

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 43

Date Collected: 6/19/2012 11:37:11 AM

Data Type: Reprocessed on 6/19/2012 1:48:47 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1326-06BMS-GP-24 8-12S

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1250464.5	92.844 %		0.6347			0.68%
Lu 261.542	1013020.1	87.73 %		0.697			0.79%
Ag 328.068†	145168.6	1.2839 mg/L		0.00318	1.2839 mg/L	0.00318	0.25%
Al 308.215†	1146369.4	65.228 mg/L		0.1196	65.228 mg/L	0.1196	0.18%
As 188.979†	315.2	0.49568 mg/L		0.009119	0.49568 mg/L	0.009119	1.84%
Ba 233.527†	517477.7	10.002 mg/L		0.0171	10.002 mg/L	0.0171	0.17%
Be 313.107†	558482.1	0.24485 mg/L		0.000523	0.24485 mg/L	0.000523	0.21%
Co 228.616†	57018.3	2.3470 mg/L		0.00393	2.3470 mg/L	0.00393	0.17%
Cr 267.716†	51848.0	1.0716 mg/L		0.00348	1.0716 mg/L	0.00348	0.32%
Cu 324.752†	237898.7	1.4159 mg/L		0.00381	1.4159 mg/L	0.00381	0.27%
Fe 273.955†	3117549.6	149.10 mg/L		0.347	149.10 mg/L	0.347	0.23%
Mg 279.077†	3259383.0	215.66 mg/L		0.507	215.66 mg/L	0.507	0.23%
Mn 257.610†	3625417.3	7.1770 mg/L		0.01514	7.1770 mg/L	0.01514	0.21%
Ni 231.604†	49113.4	2.4070 mg/L		0.00743	2.4070 mg/L	0.00743	0.31%
Pb 220.353†	1728.0	0.49098 mg/L		0.005569	0.49098 mg/L	0.005569	1.13%
Sb 206.836†	278.0	0.39993 mg/L		0.005380	0.39993 mg/L	0.005380	1.35%
Se 196.026†	210.8	0.47797 mg/L		0.009383	0.47797 mg/L	0.009383	1.96%
Tl 190.801	307.0	0.37083 mg/L		0.002982	0.37083 mg/L	0.002982	0.80%
V 292.402†	202451.5	2.6261 mg/L		0.00776	2.6261 mg/L	0.00776	0.30%
Zn 206.200†	26921.8	2.5111 mg/L		0.01306	2.5111 mg/L	0.01306	0.52%
Cd 226.502†	6218.0	0.22781 mg/L		0.003100	0.22781 mg/L	0.003100	1.36%
Ti 334.940†	718326.3	1.6487 mg/L		0.00883	1.6487 mg/L	0.00883	0.54%
Ca 227.546†	103524.7	769.42 mg/L		0.427	769.42 mg/L	0.427	0.06%
Concentration greater than upper limit for Ca 227.546.							
Na 589.592†	132036.7	28.550 mg/L		0.3067	28.550 mg/L	0.3067	1.07%
K 766.490†	38770.6	30.908 mg/L		0.3687	30.908 mg/L	0.3687	1.19%

Sequence No.: 18

Sample ID: L1326-06BSD-GP-24 8-12

Analyst:

Logged In Analyst (Original) : mitOptima3

Autosampler Location: 44

Date Collected: 6/19/2012 11:40:49 AM

Data Type: Reprocessed on 6/19/2012 1:48:48 PM

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1326-06BSD-GP-24 8-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1320374.3	98.035	%	1.2870				1.31%
Lu 261.542	1125173.1	97.44	%	1.241				1.27%
Ag 328.068†	-74.0	-0.00233	mg/L	0.000421	-0.00233	mg/L	0.000421	18.06%
Al 308.215†	168426.0	9.5771	mg/L	0.13477	9.5771	mg/L	0.13477	1.41%
As 188.979†	-1.8	0.00206	mg/L	0.002301	0.00206	mg/L	0.002301	111.68%
Ba 233.527†	3271.1	0.06325	mg/L	0.000689	0.06325	mg/L	0.000689	1.09%
Be 313.107†	-637.7	0.00021	mg/L	0.000045	0.00021	mg/L	0.000045	21.73%
Co 228.616†	289.3	0.01074	mg/L	0.000348	0.01074	mg/L	0.000348	3.23%
Cr 267.716†	1001.5	0.02029	mg/L	0.000244	0.02029	mg/L	0.000244	1.20%
Cu 324.752†	3878.6	0.02514	mg/L	0.000302	0.02514	mg/L	0.000302	1.20%
Fe 273.955†	517962.5	24.771	mg/L	0.0344	24.771	mg/L	0.0344	0.14%
Mg 279.077†	596439.5	39.465	mg/L	0.0599	39.465	mg/L	0.0599	0.15%
Mn 257.610†	492704.3	0.97528	mg/L	0.001288	0.97528	mg/L	0.001288	0.13%
Ni 231.604†	441.8	0.02135	mg/L	0.000247	0.02135	mg/L	0.000247	1.16%
Pb 220.353†	16.0	0.00529	mg/L	0.001340	0.00529	mg/L	0.001340	25.34%
Sb 206.836†	-0.4	-0.00183	mg/L	0.004567	-0.00183	mg/L	0.004567	249.36%
Se 196.026†	-8.7	-0.00613	mg/L	0.015556	-0.00613	mg/L	0.015556	253.72%
Tl 190.801	-5.5	-0.00225	mg/L	0.002956	-0.00225	mg/L	0.002956	131.54%
V 292.402†	2338.5	0.03072	mg/L	0.000291	0.03072	mg/L	0.000291	0.95%
Zn 206.200†	644.5	0.06165	mg/L	0.000435	0.06165	mg/L	0.000435	0.71%
Cd 226.502†	67.9	0.00040	mg/L	0.000111	0.00040	mg/L	0.000111	27.39%
Ti 334.940†	114395.9	0.26283	mg/L	0.005095	0.26283	mg/L	0.005095	1.94%
Ca 227.546†	19170.4	142.63	mg/L	1.956	142.63	mg/L	1.956	1.37%
Na 589.592†	2110.6	0.45636	mg/L	0.020406	0.45636	mg/L	0.020406	4.47%
K 766.490†	1628.3	1.2981	mg/L	0.02346	1.2981	mg/L	0.02346	1.81%

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Sequence No.: 19

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/19/2012 11:44:29 AM

Data Type: Reprocessed on 6/19/2012 1:48:49 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1305166.1	96.905	%	0.5369				0.55%
Lu 261.542	1130816.1	97.93	%	0.608				0.62%
Ag 328.068†	144541.4	1.2870	mg/L	0.00203	1.2870	mg/L	0.00203	0.16%
QC value within limits for Ag 328.068 Recovery = 102.96%								
Al 308.215†	170672.4	9.7274	mg/L	0.00978	9.7274	mg/L	0.00978	0.10%
QC value within limits for Al 308.215 Recovery = 97.27%								
As 188.979†	325.5	0.48480	mg/L	0.005353	0.48480	mg/L	0.005353	1.10%
QC value within limits for As 188.979 Recovery = 96.96%								
Ba 233.527†	525149.5	10.150	mg/L	0.0084	10.150	mg/L	0.0084	0.08%
QC value within limits for Ba 233.527 Recovery = 101.50%								
Be 313.107†	559383.8	0.24313	mg/L	0.000013	0.24313	mg/L	0.000013	0.01%
QC value within limits for Be 313.107 Recovery = 97.25%								
Co 228.616†	61622.6	2.5432	mg/L	0.00824	2.5432	mg/L	0.00824	0.32%
QC value within limits for Co 228.616 Recovery = 101.73%								
Cr 267.716†	46760.9	0.96839	mg/L	0.004782	0.96839	mg/L	0.004782	0.49%
QC value within limits for Cr 267.716 Recovery = 96.84%								
Cu 324.752†	210482.2	1.2411	mg/L	0.00128	1.2411	mg/L	0.00128	0.10%
QC value within limits for Cu 324.752 Recovery = 99.29%								
Fe 273.955†	102956.8	4.9278	mg/L	0.01561	4.9278	mg/L	0.01561	0.32%
QC value within limits for Fe 273.955 Recovery = 98.56%								
Mg 279.077†	373652.8	24.721	mg/L	0.0188	24.721	mg/L	0.0188	0.08%
QC value within limits for Mg 279.077 Recovery = 98.88%								
Mn 257.610†	1256248.1	2.4873	mg/L	0.00139	2.4873	mg/L	0.00139	0.06%
QC value within limits for Mn 257.610 Recovery = 99.49%								
Ni 231.604†	51159.6	2.5088	mg/L	0.00899	2.5088	mg/L	0.00899	0.36%
QC value within limits for Ni 231.604 Recovery = 100.35%								

Pb	220.353†	1734.7	0.48879 mg/L	0.001834	0.48879 mg/L	0.001834	0.38%
	QC value within limits for Pb 220.353	Recovery = 97.76%					
Sb	206.836†	319.2	0.46945 mg/L	0.006482	0.46945 mg/L	0.006482	1.38%
	QC value within limits for Sb 206.836	Recovery = 93.89%					
Se	196.026†	245.1	0.48241 mg/L	0.009994	0.48241 mg/L	0.009994	2.07%
	QC value within limits for Se 196.026	Recovery = 96.48%					
Tl	190.801	398.1	0.45518 mg/L	0.005199	0.45518 mg/L	0.005199	1.14%
	QC value within limits for Tl 190.801	Recovery = 91.04%					
V	292.402†	190342.8	2.4662 mg/L	0.00625	2.4662 mg/L	0.00625	0.25%
	QC value within limits for V 292.402	Recovery = 98.65%					
Zn	206.200†	26945.4	2.5030 mg/L	0.01090	2.5030 mg/L	0.01090	0.44%
	QC value within limits for Zn 206.200	Recovery = 100.12%					
Cd	226.502†	6287.1	0.24324 mg/L	0.001766	0.24324 mg/L	0.001766	0.73%
	QC value within limits for Cd 226.502	Recovery = 97.30%					
Ti	334.940†	215764.8	0.49233 mg/L	0.000222	0.49233 mg/L	0.000222	0.05%
	QC value within limits for Ti 334.940	Recovery = Not calculated					
Ca	227.546†	3298.7	23.734 mg/L	0.2692	23.734 mg/L	0.2692	1.13%
	QC value within limits for Ca 227.546	Recovery = 94.93%					
Na	589.592†	115903.2	25.062 mg/L	0.3471	25.062 mg/L	0.3471	1.39%
	QC value within limits for Na 589.592	Recovery = 100.25%					
K	766.490†	31352.6	24.994 mg/L	0.2987	24.994 mg/L	0.2987	1.20%
	QC value within limits for K 766.490	Recovery = 99.98%					
All analyte(s) passed QC.							

Sequence No.: 20

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 6/19/2012 11:48:11 AM

Data Type: Reprocessed on 6/19/2012 1:48:49 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1366408.4	101.45 %	0.910			0.90%
Lu 261.542	1171628.8	101.5 %	0.68			0.67%
Ag 328.068†	39.4	0.00035 mg/L	0.000178	0.00035 mg/L	0.000178	50.92%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 308.215†	110.1	0.00628 mg/L	0.001602	0.00628 mg/L	0.001602	25.51%
QC value within limits for Al 308.215	Recovery = Not calculated					
As 188.979†	-2.0	-0.00289 mg/L	0.003502	-0.00289 mg/L	0.003502	121.35%
QC value within limits for As 188.979	Recovery = Not calculated					
Ba 233.527†	65.9	0.00127 mg/L	0.000158	0.00127 mg/L	0.000158	12.43%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	42.7	0.00002 mg/L	0.000034	0.00002 mg/L	0.000034	184.36%
QC value within limits for Be 313.107	Recovery = Not calculated					
Co 228.616†	6.5	0.00027 mg/L	0.000367	0.00027 mg/L	0.000367	137.75%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	6.5	0.00014 mg/L	0.000018	0.00014 mg/L	0.000018	12.98%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 324.752†	139.4	0.00082 mg/L	0.000149	0.00082 mg/L	0.000149	18.15%
QC value within limits for Cu 324.752	Recovery = Not calculated					
Fe 273.955†	31.4	0.00150 mg/L	0.000198	0.00150 mg/L	0.000198	13.21%
QC value within limits for Fe 273.955	Recovery = Not calculated					
Mg 279.077†	38.6	0.00256 mg/L	0.002227	0.00256 mg/L	0.002227	87.16%
QC value within limits for Mg 279.077	Recovery = Not calculated					
Mn 257.610†	195.5	0.00039 mg/L	0.000050	0.00039 mg/L	0.000050	12.98%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Ni 231.604†	15.9	0.00078 mg/L	0.000268	0.00078 mg/L	0.000268	34.36%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-2.7	-0.00075 mg/L	0.001824	-0.00075 mg/L	0.001824	241.57%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	2.9	0.00436 mg/L	0.003061	0.00436 mg/L	0.003061	70.25%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-2.4	-0.00464 mg/L	0.005264	-0.00464 mg/L	0.005264	113.44%
QC value within limits for Se 196.026	Recovery = Not calculated					
Tl 190.801	-0.8	-0.00100 mg/L	0.002793	-0.00100 mg/L	0.002793	279.28%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	28.2	0.00036 mg/L	0.000139	0.00036 mg/L	0.000139	38.03%

QC value within limits for V 292.402 Recovery = Not calculated
 Zn 206.200† 15.3 0.00142 mg/L 0.000183 0.00142 mg/L 0.000183 12.86%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Cd 226.502† 0.3 0.00001 mg/L 0.000129 0.00001 mg/L 0.000129 986.42%
 QC value within limits for Cd 226.502 Recovery = Not calculated
 Ti 334.940† 44.0 0.00010 mg/L 0.000060 0.00010 mg/L 0.000060 59.92%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† -0.1 -0.00118 mg/L 0.051404 -0.00118 mg/L 0.051404 >999.9%
 QC value within limits for Ca 227.546 Recovery = Not calculated
 Na 589.592† 182.3 0.03941 mg/L 0.019818 0.03941 mg/L 0.019818 50.28%
 QC value within limits for Na 589.592 Recovery = Not calculated
 K 766.490† 28.7 0.02291 mg/L 0.038758 0.02291 mg/L 0.038758 169.18%
 QC value within limits for K 766.490 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 21

Sample ID: L1326-06BPDS-GP-24 8-12

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 45

Date Collected: 6/19/2012 11:51:59 AM

Data Type: Reprocessed on 6/19/2012 1:48:50 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1326-06BPDS-GP-24 8-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1281274.8	95.132	%	0.3323				0.35%
Lu 261.542	1043411.6	90.36	%	0.237				0.26%
Ag 328.068†	129092.0	1.1413	mg/L	0.01915	1.1413	mg/L	0.01915	1.68%
Al 308.215†	1017286.3	57.873	mg/L	0.0464	57.873	mg/L	0.0464	0.08%
As 188.979†	291.8	0.45758	mg/L	0.007540	0.45758	mg/L	0.007540	1.65%
Ba 233.527†	482002.9	9.3166	mg/L	0.00591	9.3166	mg/L	0.00591	0.06%
Be 313.107†	521238.9	0.22810	mg/L	0.000089	0.22810	mg/L	0.000089	0.04%
Co 228.616†	53272.3	2.1938	mg/L	0.03723	2.1938	mg/L	0.03723	1.70%
Cr 267.716†	47818.1	0.98826	mg/L	0.015972	0.98826	mg/L	0.015972	1.62%
Cu 324.752†	216388.0	1.2862	mg/L	0.02773	1.2862	mg/L	0.02773	2.16%
Fe 273.955†	2460481.8	117.67	mg/L	0.016	117.67	mg/L	0.016	0.01%
Mg 279.077†	3046377.5	201.57	mg/L	0.089	201.57	mg/L	0.089	0.04%
Mn 257.610†	3351632.1	6.6350	mg/L	0.00298	6.6350	mg/L	0.00298	0.04%
Ni 231.604†	45758.0	2.2427	mg/L	0.03777	2.2427	mg/L	0.03777	1.68%
Pb 220.353†	1551.8	0.44104	mg/L	0.001937	0.44104	mg/L	0.001937	0.44%
Sb 206.836†	317.4	0.46149	mg/L	0.004386	0.46149	mg/L	0.004386	0.95%
Se 196.026†	189.8	0.42331	mg/L	0.004690	0.42331	mg/L	0.004690	1.11%
Tl 190.801	300.4	0.36079	mg/L	0.001189	0.36079	mg/L	0.001189	0.33%
V 292.402†	184738.0	2.3960	mg/L	0.03635	2.3960	mg/L	0.03635	1.52%
Zn 206.200†	25277.7	2.3563	mg/L	0.03820	2.3563	mg/L	0.03820	1.62%
Cd 226.502†	5505.2	0.20266	mg/L	0.000378	0.20266	mg/L	0.000378	0.19%
Ti 334.940†	569304.3	1.3081	mg/L	0.00666	1.3081	mg/L	0.00666	0.51%
Ca 227.546†	98461.0	731.99	mg/L	13.796	731.99	mg/L	13.796	1.88%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592†	123981.9	26.808	mg/L	0.2976	26.808	mg/L	0.2976	1.11%
K 766.490†	39009.0	31.098	mg/L	0.2933	31.098	mg/L	0.2933	0.94%

Sequence No.: 22

Sample ID: L1326-04A-GP-23 0-2 20X

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 30

Date Collected: 6/19/2012 11:55:43 AM

Data Type: Reprocessed on 6/19/2012 1:48:51 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1326-04A-GP-23 0-2 20X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1344956.7	99.860	%	0.8920				0.89%
Lu 261.542	1155780.6	100.1	%	1.12				1.12%
Ag 328.068†	-26.4	-0.00078	mg/L	0.000540	-0.00078	mg/L	0.000540	69.19%
Al 308.215†	75162.7	4.2780	mg/L	0.03726	4.2780	mg/L	0.03726	0.87%
As 188.979†	1.6	0.00413	mg/L	0.003257	0.00413	mg/L	0.003257	78.91%

Ba 233.527†	1445.2	0.02794 mg/L	0.000729	0.02794 mg/L	0.000729	2.61%
Be 313.107†	-297.9	0.00011 mg/L	0.000012	0.00011 mg/L	0.000012	11.62%
Co 228.616†	125.3	0.00461 mg/L	0.000348	0.00461 mg/L	0.000348	7.56%
Cr 267.716†	419.6	0.00854 mg/L	0.000135	0.00854 mg/L	0.000135	1.58%
Cu 324.752†	1594.3	0.01043 mg/L	0.000281	0.01043 mg/L	0.000281	2.69%
Fe 273.955†	234579.5	11.219 mg/L	0.0936	11.219 mg/L	0.0936	0.83%
Mg 279.077†	185275.6	12.259 mg/L	0.1012	12.259 mg/L	0.1012	0.83%
Mn 257.610†	184020.2	0.36428 mg/L	0.003246	0.36428 mg/L	0.003246	0.89%
Ni 231.604†	195.8	0.00948 mg/L	0.000405	0.00948 mg/L	0.000405	4.28%
Pb 220.353†	7.1	0.00235 mg/L	0.003257	0.00235 mg/L	0.003257	138.64%
Sb 206.836†	0.5	0.00040 mg/L	0.000796	0.00040 mg/L	0.000796	200.81%
Se 196.026†	-0.4	0.00405 mg/L	0.005377	0.00405 mg/L	0.005377	132.73%
Tl 190.801	-3.6	-0.00262 mg/L	0.003261	-0.00262 mg/L	0.003261	124.57%
V 292.402†	1014.9	0.01333 mg/L	0.000203	0.01333 mg/L	0.000203	1.52%
Zn 206.200†	306.2	0.02922 mg/L	0.000421	0.02922 mg/L	0.000421	1.44%
Cd 226.502†	31.6	0.00027 mg/L	0.000163	0.00027 mg/L	0.000163	61.08%
Ti 334.940†	55839.3	0.12801 mg/L	0.001164	0.12801 mg/L	0.001164	0.91%
Ca 227.546†	6043.3	44.937 mg/L	0.4343	44.937 mg/L	0.4343	0.97%
Na 589.592†	514.7	0.11128 mg/L	0.014319	0.11128 mg/L	0.014319	12.87%
K 766.490†	842.8	0.67185 mg/L	0.055287	0.67185 mg/L	0.055287	8.23%

Sequence No.: 23

Sample ID: L1326-06B-GP-24 8-12 20X

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 31

Date Collected: 6/19/2012 11:59:21 AM

Data Type: Reprocessed on 6/19/2012 1:48:52 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1326-06B-GP-24 8-12 20X

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	1342675.6	99.690	%	0.7942			0.80%
Lu 261.542	1155658.6	100.1	%	0.67			0.67%
Ag 328.068†	-28.0	-0.00065 mg/L		0.000144	-0.00065 mg/L	0.000144	22.18%
Al 308.215†	40649.0	2.3115 mg/L		0.01550	2.3115 mg/L	0.01550	0.67%
As 188.979†	1.7	0.00356 mg/L		0.003959	0.00356 mg/L	0.003959	111.09%
Ba 233.527†	818.6	0.01583 mg/L		0.000046	0.01583 mg/L	0.000046	0.29%
Be 313.107†	-185.8	0.00004 mg/L		0.000025	0.00004 mg/L	0.000025	64.35%
Co 228.616†	70.3	0.00261 mg/L		0.000048	0.00261 mg/L	0.000048	1.84%
Cr 267.716†	250.8	0.00508 mg/L		0.000157	0.00508 mg/L	0.000157	3.10%
Cu 324.752†	936.1	0.00608 mg/L		0.000188	0.00608 mg/L	0.000188	3.08%
Fe 273.955†	128631.9	6.1517 mg/L		0.02579	6.1517 mg/L	0.02579	0.42%
Mg 279.077†	149837.8	9.9143 mg/L		0.02295	9.9143 mg/L	0.02295	0.23%
Mn 257.610†	122875.8	0.24323 mg/L		0.001102	0.24323 mg/L	0.001102	0.45%
Ni 231.604†	115.1	0.00557 mg/L		0.000327	0.00557 mg/L	0.000327	5.86%
Pb 220.353†	4.5	0.00144 mg/L		0.000650	0.00144 mg/L	0.000650	45.22%
Sb 206.836†	-1.1	-0.00189 mg/L		0.000816	-0.00189 mg/L	0.000816	43.08%
Se 196.026†	2.9	0.00836 mg/L		0.011946	0.00836 mg/L	0.011946	142.83%
Tl 190.801	-0.6	0.00034 mg/L		0.002891	0.00034 mg/L	0.002891	849.95%
V 292.402†	581.1	0.00764 mg/L		0.000062	0.00764 mg/L	0.000062	0.81%
Zn 206.200†	170.2	0.01625 mg/L		0.000131	0.01625 mg/L	0.000131	0.80%
Cd 226.502†	12.0	-0.00008 mg/L		0.000086	-0.00008 mg/L	0.000086	103.60%
Ti 334.940†	28173.5	0.06470 mg/L		0.000158	0.06470 mg/L	0.000158	0.24%
Ca 227.546†	4538.3	33.764 mg/L		0.2177	33.764 mg/L	0.2177	0.64%
Na 589.592†	593.3	0.12829 mg/L		0.010979	0.12829 mg/L	0.010979	8.56%
K 766.490†	273.8	0.21826 mg/L		0.049103	0.21826 mg/L	0.049103	22.50%

Sequence No.: 24

Sample ID: L1326-06BDUP-GP-24 20X

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 32

Date Collected: 6/19/2012 12:02:59 PM

Data Type: Reprocessed on 6/19/2012 1:48:52 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1326-06BDUP-GP-24 20X

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD

Y 360.073	1358943.7	100.90 %	0.602		0.60%
Lu 261.542	1170894.5	101.4 %	0.57		0.56%
Ag 328.068†	-31.0	-0.00068 mg/L	0.000358	-0.00068 mg/L	0.000358 52.93%
Al 308.215†	46526.9	2.6468 mg/L	0.07098	2.6468 mg/L	0.07098 2.68%
As 188.979†	0.8	0.00235 mg/L	0.004622	0.00235 mg/L	0.004622 196.30%
Ba 233.527†	826.4	0.01598 mg/L	0.000137	0.01598 mg/L	0.000137 0.86%
Be 313.107†	-205.4	0.00004 mg/L	0.000016	0.00004 mg/L	0.000016 35.91%
Co 228.616†	76.4	0.00282 mg/L	0.000061	0.00282 mg/L	0.000061 2.17%
Cr 267.716†	271.3	0.00550 mg/L	0.000066	0.00550 mg/L	0.000066 1.21%
Cu 324.752†	956.2	0.00627 mg/L	0.000250	0.00627 mg/L	0.000250 3.99%
Fe 273.955†	143084.5	6.8429 mg/L	0.15731	6.8429 mg/L	0.15731 2.30%
Mg 279.077†	154121.5	10.198 mg/L	0.1105	10.198 mg/L	0.1105 1.08%
Mn 257.610†	125755.0	0.24892 mg/L	0.005478	0.24892 mg/L	0.005478 2.20%
Ni 231.604†	125.3	0.00606 mg/L	0.000148	0.00606 mg/L	0.000148 2.44%
Pb 220.353†	-5.5	-0.00133 mg/L	0.000375	-0.00133 mg/L	0.000375 28.30%
Sb 206.836†	-4.5	-0.00721 mg/L	0.009106	-0.00721 mg/L	0.009106 126.21%
Se 196.026†	-5.9	-0.00858 mg/L	0.004520	-0.00858 mg/L	0.004520 52.66%
Tl 190.801	0.6	0.00192 mg/L	0.002934	0.00192 mg/L	0.002934 152.75%
V 292.402†	613.6	0.00807 mg/L	0.000035	0.00807 mg/L	0.000035 0.44%
Zn 206.200†	183.6	0.01754 mg/L	0.000282	0.01754 mg/L	0.000282 1.61%
Cd 226.502†	14.0	-0.00006 mg/L	0.000096	-0.00006 mg/L	0.000096 163.76%
Ti 334.940†	31575.6	0.07246 mg/L	0.002052	0.07246 mg/L	0.002052 2.83%
Ca 227.546†	4518.7	33.612 mg/L	0.2536	33.612 mg/L	0.2536 0.75%
Na 589.592†	481.2	0.10406 mg/L	0.012848	0.10406 mg/L	0.012848 12.35%
K 766.490†	328.7	0.26207 mg/L	0.030772	0.26207 mg/L	0.030772 11.74%

Sequence No.: 25

Sample ID: L1326-06BSD-GP-24 8 100X

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 33

Date Collected: 6/19/2012 12:06:39 PM

Data Type: Reprocessed on 6/19/2012 1:48:53 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1326-06BSD-GP-24 8 100X

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1369209.3	101.66 %	1.348			1.33%
Lu 261.542	1180199.2	102.2 %	1.40			1.37%
Ag 328.068†	-32.6	-0.00037 mg/L	0.000091	-0.00037 mg/L	0.000091	24.88%
Al 308.215†	7905.5	0.44954 mg/L	0.010084	0.44954 mg/L	0.010084	2.24%
As 188.979†	0.5	0.00092 mg/L	0.001104	0.00092 mg/L	0.001104	119.99%
Ba 233.527†	166.5	0.00322 mg/L	0.000026	0.00322 mg/L	0.000026	0.81%
Be 313.107†	1.1	0.00002 mg/L	0.000026	0.00002 mg/L	0.000026	109.23%
Co 228.616†	11.5	0.00042 mg/L	0.000194	0.00042 mg/L	0.000194	46.71%
Cr 267.716†	52.5	0.00107 mg/L	0.000081	0.00107 mg/L	0.000081	7.63%
Cu 324.752†	148.0	0.00098 mg/L	0.000189	0.00098 mg/L	0.000189	19.24%
Fe 273.955†	25399.8	1.2147 mg/L	0.03038	1.2147 mg/L	0.03038	2.50%
Mg 279.077†	29372.7	1.9435 mg/L	0.04828	1.9435 mg/L	0.04828	2.48%
Mn 257.610†	24325.4	0.04815 mg/L	0.001183	0.04815 mg/L	0.001183	2.46%
Ni 231.604†	22.5	0.00109 mg/L	0.000043	0.00109 mg/L	0.000043	3.92%
Pb 220.353†	-4.8	-0.00130 mg/L	0.000310	-0.00130 mg/L	0.000310	23.90%
Sb 206.836†	0.1	0.00007 mg/L	0.003993	0.00007 mg/L	0.003993	>999.9%
Se 196.026†	2.2	0.00482 mg/L	0.026381	0.00482 mg/L	0.026381	547.52%
Tl 190.801	-0.4	-0.00024 mg/L	0.005822	-0.00024 mg/L	0.005822	>999.9%
V 292.402†	94.4	0.00124 mg/L	0.000113	0.00124 mg/L	0.000113	9.09%
Zn 206.200†	36.8	0.00351 mg/L	0.000082	0.00351 mg/L	0.000082	2.34%
Cd 226.502†	0.5	-0.00009 mg/L	0.000048	-0.00009 mg/L	0.000048	54.21%
Ti 334.940†	5558.4	0.01276 mg/L	0.000162	0.01276 mg/L	0.000162	1.27%
Ca 227.546†	879.8	6.5455 mg/L	0.10445	6.5455 mg/L	0.10445	1.60%
Na 589.592†	38.7	0.00837 mg/L	0.019821	0.00837 mg/L	0.019821	236.84%
K 766.490†	19.6	0.01564 mg/L	0.004958	0.01564 mg/L	0.004958	31.71%

Sequence No.: 26

Sample ID: L1335-01A-BH1 8-10

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 46

Date Collected: 6/19/2012 12:10:18 PM

Data Type: Reprocessed on 6/19/2012 1:48:54 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1335-01A-BH1 8-10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1310924.4	97.333	%	0.8695				0.89%
Lu 261.542	1030600.9	89.25	%	1.110				1.24%
Ag 328.068†	-727.7	-0.01823	mg/L	0.000656	-0.01823	mg/L	0.000656	3.60%
Al 308.215†	2093424.1	119.25	mg/L	1.813	119.25	mg/L	1.813	1.52%
As 188.979†	22.5	0.06852	mg/L	0.005096	0.06852	mg/L	0.005096	7.44%
Ba 233.527†	90940.0	1.7575	mg/L	0.04345	1.7575	mg/L	0.04345	2.47%
Be 313.107†	442.6	0.00385	mg/L	0.000072	0.00385	mg/L	0.000072	1.86%
Co 228.616†	3293.5	0.12495	mg/L	0.002472	0.12495	mg/L	0.002472	1.98%
Cr 267.716†	8927.3	0.18128	mg/L	0.002988	0.18128	mg/L	0.002988	1.65%
Cu 324.752†	60171.2	0.37917	mg/L	0.008214	0.37917	mg/L	0.008214	2.17%
Fe 273.955†	5589817.2	267.33	mg/L	3.966	267.33	mg/L	3.966	1.48%
Mg 279.077†	2263785.0	149.79	mg/L	2.245	149.79	mg/L	2.245	1.50%
Mn 257.610†	6667306.9	13.201	mg/L	0.1944	13.201	mg/L	0.1944	1.47%
Ni 231.604†	5063.4	0.24656	mg/L	0.004261	0.24656	mg/L	0.004261	1.73%
Pb 220.353†	216.0	0.07006	mg/L	0.002201	0.07006	mg/L	0.002201	3.14%
Sb 206.836†	11.1	0.00527	mg/L	0.006625	0.00527	mg/L	0.006625	125.75%
Se 196.026†	-57.7	0.00421	mg/L	0.010788	0.00421	mg/L	0.010788	256.53%
Tl 190.801	-21.7	0.01146	mg/L	0.007754	0.01146	mg/L	0.007754	67.66%
V 292.402†	20780.9	0.27488	mg/L	0.007138	0.27488	mg/L	0.007138	2.60%
Zn 206.200†	5833.8	0.56169	mg/L	0.005776	0.56169	mg/L	0.005776	1.03%
Cd 226.502†	834.4	0.01014	mg/L	0.000439	0.01014	mg/L	0.000439	4.33%
Ti 334.940†	868289.7	1.9934	mg/L	0.03382	1.9934	mg/L	0.03382	1.70%
Ca 227.546†	111091.8	825.58	mg/L	19.686	825.58	mg/L	19.686	2.38%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592†	8282.8	1.7910	mg/L	0.03067	1.7910	mg/L	0.03067	1.71%
K 766.490†	23784.3	18.961	mg/L	0.4346	18.961	mg/L	0.4346	2.29%

Sequence No.: 27

Sample ID: L1335-02A-BH3 8-10

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 47

Date Collected: 6/19/2012 12:14:02 PM

Data Type: Reprocessed on 6/19/2012 1:48:54 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1335-02A-BH3 8-10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1330265.2	98.769	%	1.0670				1.08%
Lu 261.542	1029429.5	89.15	%	0.775				0.87%
Ag 328.068†	-907.1	-0.02150	mg/L	0.000392	-0.02150	mg/L	0.000392	1.82%
Al 308.215†	2335474.2	133.03	mg/L	0.874	133.03	mg/L	0.874	0.66%
As 188.979†	3.8	0.04487	mg/L	0.008389	0.04487	mg/L	0.008389	18.69%
Ba 233.527†	104842.5	2.0261	mg/L	0.00953	2.0261	mg/L	0.00953	0.47%
Be 313.107†	275.9	0.00423	mg/L	0.000034	0.00423	mg/L	0.000034	0.80%
Co 228.616†	3423.7	0.12945	mg/L	0.001661	0.12945	mg/L	0.001661	1.28%
Cr 267.716†	9020.7	0.18308	mg/L	0.001539	0.18308	mg/L	0.001539	0.84%
Cu 324.752†	47802.0	0.30748	mg/L	0.002027	0.30748	mg/L	0.002027	0.66%
Fe 273.955†	5855307.6	280.02	mg/L	1.505	280.02	mg/L	1.505	0.54%
Mg 279.077†	2232188.7	147.70	mg/L	0.893	147.70	mg/L	0.893	0.60%
Mn 257.610†	7027248.7	13.914	mg/L	0.0770	13.914	mg/L	0.0770	0.55%
Ni 231.604†	5378.2	0.26186	mg/L	0.003182	0.26186	mg/L	0.003182	1.22%
Pb 220.353†	182.7	0.06219	mg/L	0.001321	0.06219	mg/L	0.001321	2.12%
Sb 206.836†	10.3	0.00376	mg/L	0.007756	0.00376	mg/L	0.007756	206.25%
Se 196.026†	-74.7	-0.02319	mg/L	0.039590	-0.02319	mg/L	0.039590	170.74%
Tl 190.801	-26.1	0.00784	mg/L	0.002902	0.00784	mg/L	0.002902	37.02%
V 292.402†	21194.2	0.28030	mg/L	0.002428	0.28030	mg/L	0.002428	0.87%
Zn 206.200†	6308.2	0.60678	mg/L	0.009585	0.60678	mg/L	0.009585	1.58%
Cd 226.502†	884.7	0.01077	mg/L	0.000654	0.01077	mg/L	0.000654	6.07%
Ti 334.940†	976848.8	2.2436	mg/L	0.01175	2.2436	mg/L	0.01175	0.52%
Ca 227.546†	129946.1	965.98	mg/L	6.629	965.98	mg/L	6.629	0.69%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592†	9645.6	2.0856	mg/L	0.02333	2.0856	mg/L	0.02333	1.12%
K 766.490†	25279.8	20.153	mg/L	0.1891	20.153	mg/L	0.1891	0.94%

Sequence No.: 28

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/19/2012 12:17:47 PM

Data Type: Reprocessed on 6/19/2012 1:48:55 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1329432.2	98.707 %	0.6230			0.63%
Lu 261.542	1156886.2	100.2 %	0.81			0.81%
Ag 328.068†	142178.0	1.2660 mg/L	0.00273	1.2660 mg/L	0.00273	0.22%
QC value within limits for Ag 328.068 Recovery = 101.28%						
Al 308.215†	168669.2	9.6132 mg/L	0.03992	9.6132 mg/L	0.03992	0.42%
QC value within limits for Al 308.215 Recovery = 96.13%						
As 188.979†	323.2	0.48116 mg/L	0.006275	0.48116 mg/L	0.006275	1.30%
QC value within limits for As 188.979 Recovery = 96.23%						
Ba 233.527†	521242.0	10.075 mg/L	0.0426	10.075 mg/L	0.0426	0.42%
QC value within limits for Ba 233.527 Recovery = 100.75%						
Be 313.107†	553070.2	0.24039 mg/L	0.000801	0.24039 mg/L	0.000801	0.33%
QC value within limits for Be 313.107 Recovery = 96.16%						
Co 228.616†	60407.8	2.4931 mg/L	0.02346	2.4931 mg/L	0.02346	0.94%
QC value within limits for Co 228.616 Recovery = 99.72%						
Cr 267.716†	45640.6	0.94518 mg/L	0.011619	0.94518 mg/L	0.011619	1.23%
QC value within limits for Cr 267.716 Recovery = 94.52%						
Cu 324.752†	208461.8	1.2292 mg/L	0.00397	1.2292 mg/L	0.00397	0.32%
QC value within limits for Cu 324.752 Recovery = 98.33%						
Fe 273.955†	101305.9	4.8488 mg/L	0.04775	4.8488 mg/L	0.04775	0.98%
QC value within limits for Fe 273.955 Recovery = 96.98%						
Mg 279.077†	370385.3	24.505 mg/L	0.0723	24.505 mg/L	0.0723	0.29%
QC value within limits for Mg 279.077 Recovery = 98.02%						
Mn 257.610†	1240093.4	2.4553 mg/L	0.00622	2.4553 mg/L	0.00622	0.25%
QC value within limits for Mn 257.610 Recovery = 98.21%						
Ni 231.604†	50102.0	2.4569 mg/L	0.02724	2.4569 mg/L	0.02724	1.11%
QC value within limits for Ni 231.604 Recovery = 98.28%						
Pb 220.353†	1697.4	0.47829 mg/L	0.007028	0.47829 mg/L	0.007028	1.47%
QC value within limits for Pb 220.353 Recovery = 95.66%						
Sb 206.836†	310.8	0.45710 mg/L	0.009940	0.45710 mg/L	0.009940	2.17%
QC value within limits for Sb 206.836 Recovery = 91.42%						
Se 196.026†	239.3	0.47092 mg/L	0.008041	0.47092 mg/L	0.008041	1.71%
QC value within limits for Se 196.026 Recovery = 94.18%						
Tl 190.801	398.4	0.45594 mg/L	0.009583	0.45594 mg/L	0.009583	2.10%
QC value within limits for Tl 190.801 Recovery = 91.19%						
V 292.402†	187054.4	2.4236 mg/L	0.00692	2.4236 mg/L	0.00692	0.29%
QC value within limits for V 292.402 Recovery = 96.94%						
Zn 206.200†	26621.3	2.4729 mg/L	0.02555	2.4729 mg/L	0.02555	1.03%
QC value within limits for Zn 206.200 Recovery = 98.92%						
Cd 226.502†	6193.5	0.23962 mg/L	0.001718	0.23962 mg/L	0.001718	0.72%
QC value within limits for Cd 226.502 Recovery = 95.85%						
Ti 334.940†	216014.2	0.49290 mg/L	0.002050	0.49290 mg/L	0.002050	0.42%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	3246.3	23.360 mg/L	0.3404	23.360 mg/L	0.3404	1.46%
QC value within limits for Ca 227.546 Recovery = 93.44%						
Na 589.592†	112626.7	24.353 mg/L	0.2904	24.353 mg/L	0.2904	1.19%
QC value within limits for Na 589.592 Recovery = 97.41%						
K 766.490†	30546.3	24.351 mg/L	0.2987	24.351 mg/L	0.2987	1.23%
QC value within limits for K 766.490 Recovery = 97.41%						

All analyte(s) passed QC.

Sequence No.: 29

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 6/19/2012 12:21:30 PM

Data Type: Reprocessed on 6/19/2012 1:48:56 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1350060.4	100.24	%	0.644				0.64%
Lu 261.542	1165502.5	100.9	%	0.54				0.54%
Ag 328.068†	14.6	0.00013	mg/L	0.000330	0.00013	mg/L	0.000330	252.90%
QC value within limits for Ag		328.068	Recovery =	Not calculated				
Al 308.215†	229.6	0.01309	mg/L	0.001662	0.01309	mg/L	0.001662	12.69%
QC value within limits for Al		308.215	Recovery =	Not calculated				
As 188.979†	1.3	0.00197	mg/L	0.004052	0.00197	mg/L	0.004052	206.18%
QC value within limits for As		188.979	Recovery =	Not calculated				
Ba 233.527†	69.2	0.00134	mg/L	0.000275	0.00134	mg/L	0.000275	20.51%
QC value within limits for Ba		233.527	Recovery =	Not calculated				
Be 313.107†	79.5	0.00003	mg/L	0.000022	0.00003	mg/L	0.000022	63.73%
QC value within limits for Be		313.107	Recovery =	Not calculated				
Co 228.616†	5.6	0.00023	mg/L	0.000104	0.00023	mg/L	0.000104	44.94%
QC value within limits for Co		228.616	Recovery =	Not calculated				
Cr 267.716†	5.1	0.00011	mg/L	0.000026	0.00011	mg/L	0.000026	24.48%
QC value within limits for Cr		267.716	Recovery =	Not calculated				
Cu 324.752†	71.8	0.00042	mg/L	0.000214	0.00042	mg/L	0.000214	50.60%
QC value within limits for Cu		324.752	Recovery =	Not calculated				
Fe 273.955†	120.4	0.00576	mg/L	0.000906	0.00576	mg/L	0.000906	15.74%
QC value within limits for Fe		273.955	Recovery =	Not calculated				
Mg 279.077†	118.9	0.00786	mg/L	0.000219	0.00786	mg/L	0.000219	2.78%
QC value within limits for Mg		279.077	Recovery =	Not calculated				
Mn 257.610†	292.0	0.00058	mg/L	0.000090	0.00058	mg/L	0.000090	15.61%
QC value within limits for Mn		257.610	Recovery =	Not calculated				
Ni 231.604†	12.9	0.00063	mg/L	0.000058	0.00063	mg/L	0.000058	9.19%
QC value within limits for Ni		231.604	Recovery =	Not calculated				
Pb 220.353†	-0.1	-0.00002	mg/L	0.002319	-0.00002	mg/L	0.002319	>999.9%
QC value within limits for Pb		220.353	Recovery =	Not calculated				
Sb 206.836†	1.5	0.00234	mg/L	0.004763	0.00234	mg/L	0.004763	203.36%
QC value within limits for Sb		206.836	Recovery =	Not calculated				
Se 196.026†	4.0	0.00777	mg/L	0.012612	0.00777	mg/L	0.012612	162.38%
QC value within limits for Se		196.026	Recovery =	Not calculated				
Tl 190.801	1.4	0.00173	mg/L	0.003396	0.00173	mg/L	0.003396	195.80%
QC value within limits for Tl		190.801	Recovery =	Not calculated				
V 292.402†	71.4	0.00093	mg/L	0.000466	0.00093	mg/L	0.000466	50.34%
QC value within limits for V		292.402	Recovery =	Not calculated				
Zn 206.200†	14.4	0.00133	mg/L	0.000250	0.00133	mg/L	0.000250	18.71%
QC value within limits for Zn		206.200	Recovery =	Not calculated				
Cd 226.502†	-2.5	-0.00010	mg/L	0.000140	-0.00010	mg/L	0.000140	146.51%
QC value within limits for Cd		226.502	Recovery =	Not calculated				
Ti 334.940†	110.6	0.00025	mg/L	0.000062	0.00025	mg/L	0.000062	24.56%
QC value within limits for Ti		334.940	Recovery =	Not calculated				
Ca 227.546†	3.8	0.02811	mg/L	0.008729	0.02811	mg/L	0.008729	31.05%
QC value within limits for Ca		227.546	Recovery =	Not calculated				
Na 589.592†	-59.4	-0.01284	mg/L	0.019011	-0.01284	mg/L	0.019011	148.01%
QC value within limits for Na		589.592	Recovery =	Not calculated				
K 766.490†	-58.6	-0.04668	mg/L	0.048971	-0.04668	mg/L	0.048971	104.92%
QC value within limits for K		766.490	Recovery =	Not calculated				

All analyte(s) passed QC.

Sequence No.: 30

Sample ID: L1335-03A-BH2 8-10

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 48

Date Collected: 6/19/2012 12:25:09 PM

Data Type: Reprocessed on 6/19/2012 1:48:57 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1335-03A-BH2 8-10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1317645.0	97.832	%	0.0866				0.09%
Lu 261.542	1022351.2	88.54	%	0.338				0.38%
Ag 328.068†	-966.8	-0.02218	mg/L	0.000422	-0.02218	mg/L	0.000422	1.90%
Al 308.215†	2463736.2	140.34	mg/L	0.543	140.34	mg/L	0.543	0.39%
As 188.979†	15.2	0.06313	mg/L	0.006460	0.06313	mg/L	0.006460	10.23%
Ba 233.527†	96876.7	1.8723	mg/L	0.02141	1.8723	mg/L	0.02141	1.14%

=====
Analysis Begun

Logged In Analyst: mitFIMS2
Spectrometer Model: FIMS-100, S/N B050-9550

Technique: AA FIMS-MHS
Autosampler Model: AS-90

Sample Information File: C:\data-AA\mitFIMS2\Sample Information\0619A.sif
Batch ID: Null
Results Data Set: HG12061901
Results Library: C:\data-AA\mitFIMS2\Results\Results.mdb

=====
Method Loaded

Method Name: Comm Hg

Method Last Saved: 7/27/2011 10:10:28 AM

Method Description: Hg Analysis by Cold Vapor AA

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin Thru 0	253.7

=====
Sequence No.: 1

Sample ID: S0

Autosampler Location: 1

Date Collected: 6/19/2012 10:38:31 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0003	-0.0058	0.0003	10:39:32	Yes
2		[0.00]	0.0003	-0.0065	0.0003	10:40:12	Yes
Mean:		[0.00]	0.0003				
SD:		0.00	0.0000				
%RSD:		0.00	0.26				

Auto-zero performed.

=====
Sequence No.: 2

Sample ID: S0.20

Autosampler Location: 2

Date Collected: 6/19/2012 10:40:14 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0.20

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0023	0.0062	0.0026	10:41:12	Yes
2		[0.2]	0.0023	0.0061	0.0026	10:41:53	Yes
Mean:		[0.2]	0.0023				
SD:		0.0	0.0000				
%RSD:		0.0	0.45				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01129 Intercept: 0.00000

=====
Sequence No.: 3

Sample ID: S1.0

Autosampler Location: 3

Date Collected: 6/19/2012 10:41:54 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S1.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0120	0.0548	0.0123	10:42:52	Yes
2		[1]	0.0121	0.0551	0.0124	10:43:32	Yes
Mean:		[1]	0.0121				

SD: 0 0.0000
%RSD: 0 0.28
Standard number 2 applied. [1]
Correlation Coef.: 0.999756 Slope: 0.01203 Intercept: 0.00000

=====

Sequence No.: 4	Autosampler Location: 4
Sample ID: S2.0	Date Collected: 6/19/2012 10:43:34 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0248	0.1192	0.0251	10:44:32	Yes
2		[2]	0.0247	0.1204	0.0250	10:45:12	Yes
Mean:		[2]	0.0247				
SD:		0	0.0000				
%RSD:		0	0.16				

Standard number 3 applied. [2]
Correlation Coef.: 0.999762 Slope: 0.01230 Intercept: 0.00000

=====

Sequence No.: 5	Autosampler Location: 5
Sample ID: S5.0	Date Collected: 6/19/2012 10:45:14 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: S5.0

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0626	0.3123	0.0629	10:46:11	Yes
2		[5]	0.0631	0.3141	0.0634	10:46:51	Yes
Mean:		[5]	0.0629				
SD:		0	0.0003				
%RSD:		0	0.55				

Standard number 4 applied. [5]
Correlation Coef.: 0.999894 Slope: 0.01253 Intercept: 0.00000

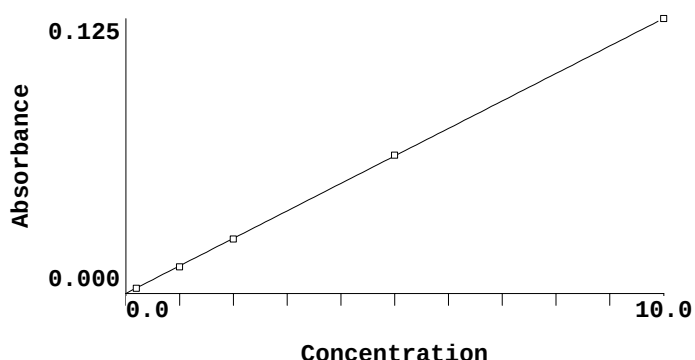
=====

Sequence No.: 6	Autosampler Location: 6
Sample ID: S10.0	Date Collected: 6/19/2012 10:46:53 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.1253	0.6277	0.1256	10:47:51	Yes
2		[10]	0.1251	0.6287	0.1254	10:48:31	Yes
Mean:		[10]	0.1252				
SD:		0	0.0001				
%RSD:		0	0.10				

Standard number 5 applied. [10]
Correlation Coef.: 0.999978 Slope: 0.01252 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	0.3
S0.20	0.0023	0.2	0.180	0.00	0.5
S1.0	0.0121	1.0	0.963	0.00	0.3
S2.0	0.0247	2.0	1.975	0.00	0.2
S5.0	0.0629	5.0	5.021	0.00	0.6
S10.0	0.1252	10.0	9.999	0.00	0.1

Correlation Coef.: 0.999978 Slope: 0.01252 Intercept: 0.00000

Sequence No.: 7

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 6/19/2012 10:48:33 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.985	4.985	0.0624	0.3136	0.0627	10:49:31	Yes
2	5.026	5.026	0.0629	0.3132	0.0632	10:50:11	Yes
Mean:	5.006	5.006	0.0627				
SD:	0.028	0.028	0.0004				
%RSD:	0.569	0.569	0.57				

QC value within limits for Hg 253.7 Recovery = 100.11%
All analyte(s) passed QC.

Sequence No.: 8

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/19/2012 10:50:13 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.012	0.012	0.0002	-0.0014	0.0005	10:51:13	Yes
2	0.007	0.007	0.0001	-0.0018	0.0004	10:51:53	Yes
Mean:	0.010	0.010	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	39.39	39.39	39.39				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9

Sample ID: MB-66783

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 17

Date Collected: 6/19/2012 10:51:55 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: MB-66783

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.017	-0.017	-0.0002	-0.0010	0.0001	10:52:53	Yes
2	-0.017	-0.017	-0.0002	-0.0012	0.0001	10:53:33	Yes
Mean:	-0.017	-0.017	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	3.596	3.596	3.60				

Sequence No.: 10

Sample ID: LCS-66783

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 18

Date Collected: 6/19/2012 10:53:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LCS-66783

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.548	4.548	0.0569	0.2903	0.0572	10:54:32	Yes
2	4.564	4.564	0.0571	0.2904	0.0574	10:55:12	Yes
Mean:	4.556	4.556	0.0570				
SD:	0.011	0.011	0.0001				
%RSD:	0.250	0.250	0.25				

Sequence No.: 11

Sample ID: L1326-04A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 19

Date Collected: 6/19/2012 10:55:14 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1326-04A

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.070	0.070	0.0009	0.0066	0.0012	10:56:12	Yes
2	0.072	0.072	0.0009	0.0080	0.0012	10:56:51	Yes
Mean:	0.071	0.071	0.0009				
SD:	0.001	0.001	0.0000				
%RSD:	1.915	1.915	1.91				

Sequence No.: 12

Sample ID: L1326-06B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 20

Date Collected: 6/19/2012 10:56:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1326-06B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0015	0.0003	10:57:50	Yes
2	0.006	0.006	0.0001	0.0014	0.0004	10:58:30	Yes
Mean:	0.004	0.004	0.0000				
SD:	0.004	0.004	0.0001				
%RSD:	119.0	119.0	118.98				

Sequence No.: 13

Sample ID: L1326-06BDUP

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 21

Date Collected: 6/19/2012 10:58:32 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1326-06BDUP

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.0001	-0.0008	0.0002	10:59:30	Yes
2	-0.007	-0.007	-0.0001	-0.0002	0.0002	11:00:10	Yes
Mean:	-0.006	-0.006	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	27.32	27.32	27.32				

Sequence No.: 14

Sample ID: L1326-06BMS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 22

Date Collected: 6/19/2012 11:00:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1326-06BMS

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.806	4.806	0.0602	0.3099	0.0605	11:01:09	Yes
2	4.862	4.862	0.0609	0.3133	0.0612	11:01:49	Yes
Mean:	4.834	4.834	0.0605				
SD:	0.040	0.040	0.0005				
%RSD:	0.821	0.821	0.82				

Sequence No.: 15

Sample ID: L1335-01B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 23

Date Collected: 6/19/2012 11:01:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1335-01B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0001	-0.0000	0.0004	11:02:49	Yes
2	0.003	0.003	0.0000	-0.0004	0.0003	11:03:28	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	52.86	52.86	52.86				

Sequence No.: 16

Sample ID: L1335-02B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 24

Date Collected: 6/19/2012 11:03:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1335-02B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	-0.0006	0.0003	11:04:28	Yes
2	0.003	0.003	0.0000	-0.0007	0.0003	11:05:08	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.194	0.194	0.19				

Sequence No.: 17

Sample ID: L1335-03B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 25

Date Collected: 6/19/2012 11:05:10 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1335-03B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0001	-0.0008	0.0004	11:06:07	Yes

2	0.000	0.000	0.0000	-0.0007	0.0003	11:06:48	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	140.6	140.6	140.56				

Sequence No.: 18

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 6/19/2012 11:06:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.332	5.332	0.0668	0.3440	0.0671	11:07:48	Yes
2	5.369	5.369	0.0672	0.3467	0.0675	11:08:28	Yes
Mean:	5.351	5.351	0.0670				
SD:	0.026	0.026	0.0003				
%RSD:	0.483	0.483	0.48				

QC value within limits for Hg 253.7 Recovery = 107.01%
All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/19/2012 11:08:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.019	0.019	0.0002	0.0002	0.0005	11:09:30	Yes
2	0.023	0.023	0.0003	0.0007	0.0006	11:10:10	Yes
Mean:	0.021	0.021	0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	14.99	14.99	14.99				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 20

Sample ID: L1335-04B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 26

Date Collected: 6/19/2012 11:10:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1335-04B

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.026	0.026	0.0003	0.0009	0.0006	11:11:12	Yes
2	0.030	0.030	0.0004	0.0012	0.0007	11:11:52	Yes
Mean:	0.028	0.028	0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	10.15	10.15	10.15				

Sequence No.: 21

Sample ID: L1335-05B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 27

Date Collected: 6/19/2012 11:11:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1335-05B

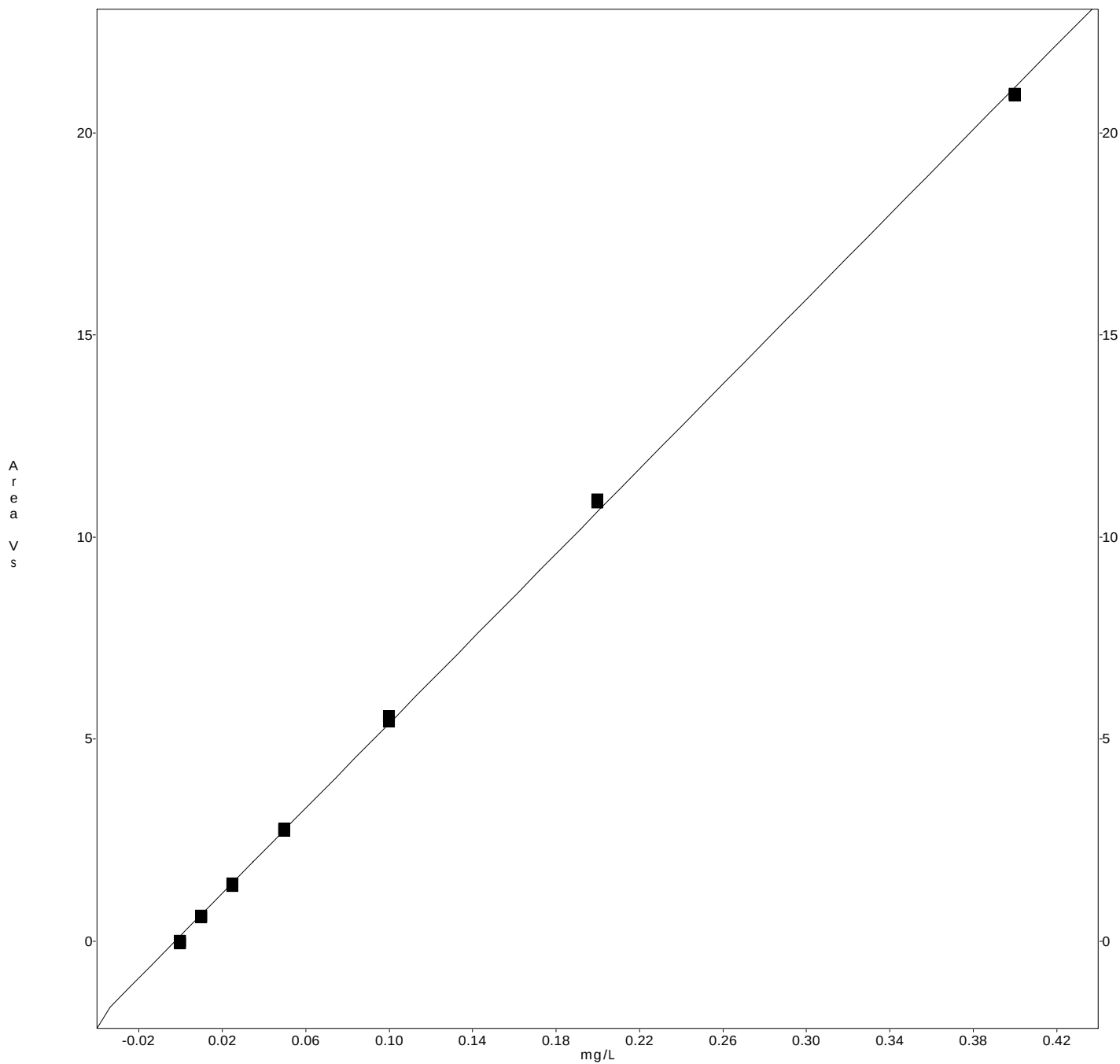
Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

CN

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	-4554	0.000	26921	-36028				44511.3	-977.5	
2	631637	0.010	651477	611797				28057.9	4.4	7.1
3	1411457	0.025	1385105	1437809				37266.8	2.6	3.4
4	2773286	0.050	2796543	2750028				32890.9	1.2	-0.2
5	5515351	0.100	5573894	5456808				82792.3	1.5	-2.4
6	10909404	0.200	10875114	10943695				48494.1	0.4	-2.6
7	20960768	0.400	20979294	20942240				26201.1	0.1	0.8

1st Order Poly
 Conc = 1.906e-008 Area - 2.750e-003
 r = 0.9998

Scaling: None - Weighting: None



OPERATOR: rdorsey
 ACQ. TIME: Jun 19, 2012 13:21:12
 DATA FILENAME: D:\DATA\CN\2011\03\C120619A.FDT
 METHOD FILENAME: D:\METHODS\CN\2011\03\C120619A.MET
 TRAY FILENAME: D:\TRAYS\2011\03\C120619A.TRA

TRAY DESCRIPTION:
 Created: Jun 19, 2012 13:19:35
 Modified: Jun 19, 2012 13:19:35
 ANALYSIS: CN ANALYST: RD
 DATA DESCRIPTION:
 Created: Jun 19, 2012 13:21:12
 Modified: Jun 19, 2012 13:21:12

Multi-Channel Table
 Type: Calibration Standards
 Channel Range: 1 to 8 -- Cup Range: 1 to 30

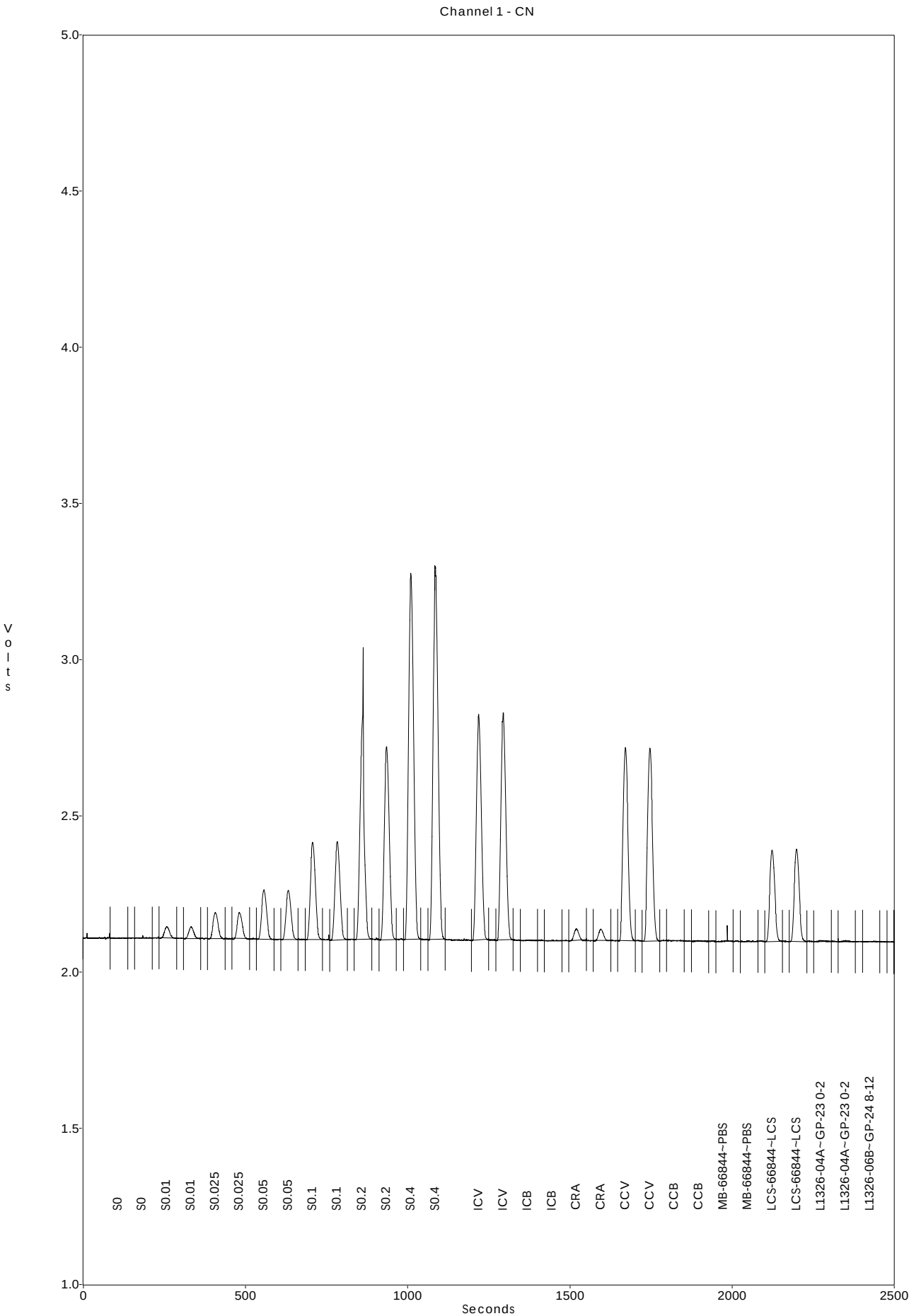
Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	CN (uv-s)	Man Dil Factor	Weight	Unit
1	S0	19 Jun 2012	13:21:31	2	-4553.50	1.0	1.00000	g
2	S0.01	19 Jun 2012	13:24:01	2	631637.00	1.0	1.00000	g
3	S0.025	19 Jun 2012	13:26:31	2	1411456.88	1.0	1.00000	g
4	S0.05	19 Jun 2012	13:29:01	2	2773285.38	1.0	1.00000	g
5	S0.1	19 Jun 2012	13:31:31	2	5515350.50	1.0	1.00000	g
6	S0.2	19 Jun 2012	13:34:03	2	10909404.50	1.0	1.00000	g
7	S0.4	19 Jun 2012	13:36:34	2	20960767.00	1.0	1.00000	g

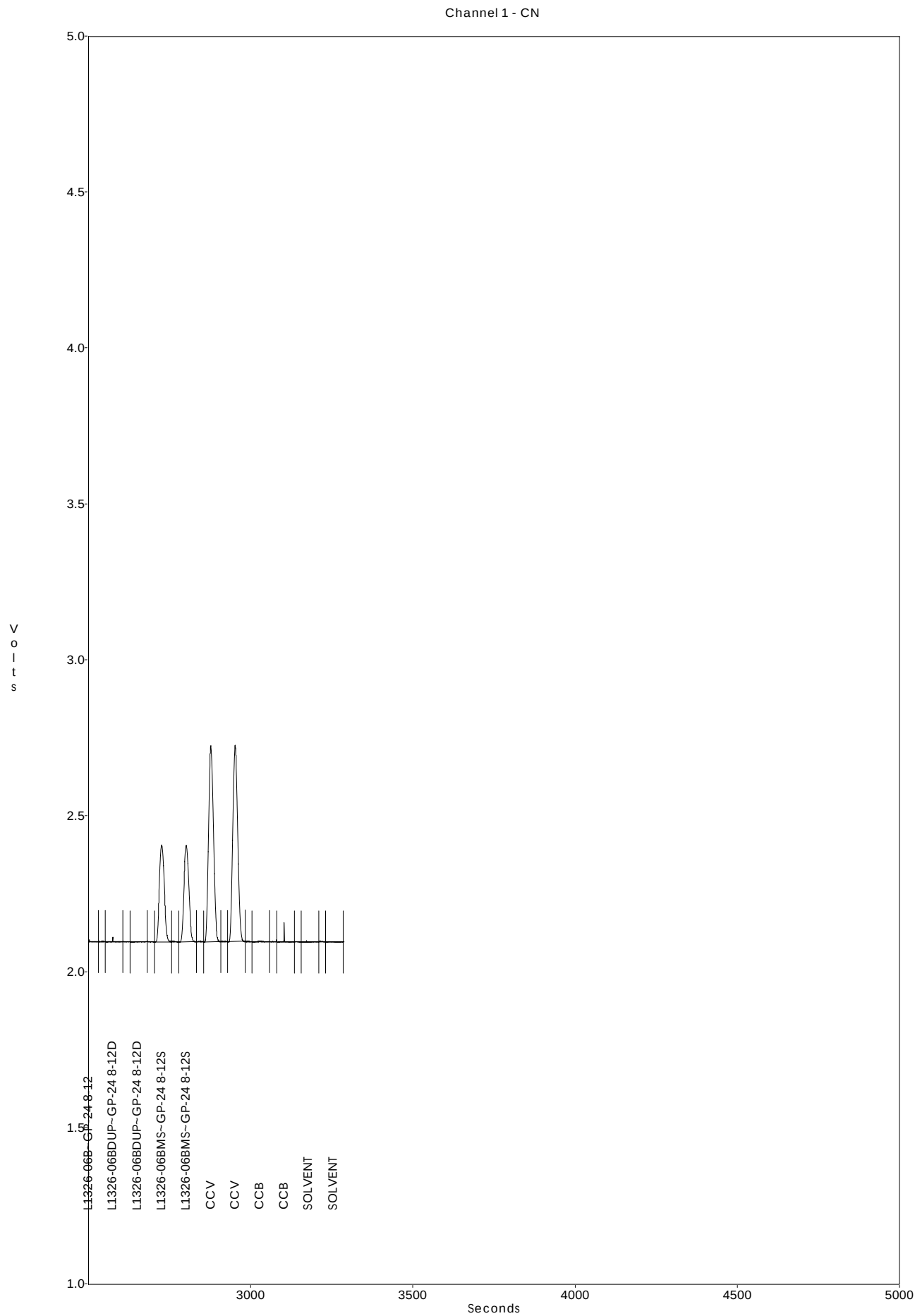
OPERATOR: rdorsey
 ACQ. TIME: Jun 19, 2012 13:21:12
 DATA FILENAME: D:\DATA\CN\2011\03\C120619A.FDT
 METHOD FILENAME: D:\METHODS\CN\2011\03\C120619A.MET
 TRAY FILENAME: D:\TRAYS\2011\03\C120619A.TRA

TRAY DESCRIPTION:
 Created: Jun 19, 2012 13:19:35
 Modified: Jun 19, 2012 13:19:35
 ANALYSIS: CN ANALYST: RD
 DATA DESCRIPTION:
 Created: Jun 19, 2012 13:21:12
 Modified: Jun 19, 2012 13:21:12

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 1 to 30

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	CN (mg/L)	Man Dil Factor	Weight	Unit
1	ICV	19 Jun 2012	13:40:03	2	0.24138	1.0	1.00000	g
2	ICB	19 Jun 2012	13:42:34	2	-0.00262	1.0	1.00000	g
3	CRA	19 Jun 2012	13:45:04	2	0.00829	1.0	1.00000	g
4	CCV	19 Jun 2012	13:47:35	2	0.20499	1.0	1.00000	g
5	CCB	19 Jun 2012	13:50:06	2	-0.00233	1.0	1.00000	g
6	MB-66844~PBS	19 Jun 2012	13:52:37	2	-0.00222	1.0	1.00000	g
7	LCS-66844~LCS	19 Jun 2012	13:55:08	2	0.09547	1.0	1.00000	g
8	L1326-04A~GP-23 0-2	19 Jun 2012	13:57:38	2	-0.00165	1.0	1.00000	g
9	L1326-06B~GP-24 8-12	19 Jun 2012	14:00:09	2	-0.00269	1.0	1.00000	g
10	L1326-06BDUP~GP-24 8-12D	19 Jun 2012	14:02:39	2	-0.00293	1.0	1.00000	g
11	L1326-06BMS~GP-24 8-12S	19 Jun 2012	14:05:10	2	0.09992	1.0	1.00000	g
12	CCV	19 Jun 2012	14:07:42	2	0.20831	1.0	1.00000	g
13	CCB	19 Jun 2012	14:10:12	2	-0.00226	1.0	1.00000	g
14	SOLVENT	19 Jun 2012	14:12:43	2	-0.00228	1.0	1.00000	g





Start time: Spectrum Analytical, Inc. RI Division: Soil/Solid Metals Prep Logbook

Prep Start Date: 6/18/2012 12:00:00

Prep End Date: 6/18/2012 4:15:00 P

Prep Batch ID: 66781

Prep Code: ICP_S_PR

Prep Type: 3050B/SW3050B

Prep Factor Units:
mL / g

Technician: David T Camara

QC Matrix: N/A
QC Matrix Lot: N/A

1:1 HNO3 1111101
1:1 HNO3 (mL): 5.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HNO3 1112012
Conc HNO3 (mL): 2.5

Conc HCl 4110110
Conc HCl (mL): 5.0

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 06/18/2012 12:00

Digestion Start Time 2: 06/18/2012 16:00

Digestion End Time 1: 06/18/2012 12:45

Digestion End Time 2: 06/18/2012 16:15

Block Temp (C): 96

Therm ID1: MT-94
Corr Fac:-3

Mitkem Sample ID	Client Samp ID	tial L/g	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11 <2	HOT BLOCK
MB-66781		1	50	--	--	--	--			06/18/12	DTC	ICPLab			HB-3
LCS-66781		1	50	--	--	--	--			06/18/12	DTC	ICPLab			HB-3
455 uL II120611A, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A															
L1326-04A	GP-23 0-2	S	1.11	50	--	--	--	06/29/12	01	06/18/12	DTC	ICPLab			HB-3
TAL															
L1326-06B	GP-24 8-12	S	1.24	50	--	--	--	06/29/12	01	06/18/12	DTC	ICPLab			HB-3
TAL															
L1326-06BDUP	GP-24 8-12	S	1.25	50	--	--	--	06/29/12		06/18/12	DTC	ICPLab			HB-3
TAL															
L1326-06BMS	GP-24 8-12	S	1.25	50	--	--	--	06/29/12		06/18/12	DTC	ICPLab			HB-3
455 uL II120611A, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A, TAL															
L1335-01B	BH1 8-10	S	1.04	50	--	--	--	07/09/12	01	06/18/12	DTC	ICPLab			HB-3
L1335-02B	BH3 8-10	S	1.19	50	--	--	--	07/09/12	01	06/18/12	DTC	ICPLab			HB-3
TAL															
L1335-03B	BH2 8-10	S	1.11	50	--	--	--	07/09/12	01	06/18/12	DTC	ICPLab			HB-3
TAL															
L1335-04B	BH4	S	1.35	50	--	--	--	07/09/12	01	06/18/12	DTC	ICPLab			HB-3
L1335-05B	BH5	S	1.48	50	--	--	--	07/09/12	01	06/18/12	DTC	ICPLab			HB-3
L1335-06B	BH6	S	1.29	50	--	--	--	07/09/12	01	06/18/12	DTC	ICPLab			HB-3
TAL															
L1335-07B	BH7	S	1.11	50	--	--	--	07/09/12	01	06/18/12	DTC	ICPLab			HB-3
TAL															
L1335-08B	BH8	S	1.34	50	--	--	--	07/09/12	01	06/18/12	DTC	ICPLab			HB-3
TAL															
L1335-09B	BH9	S	1.11	50	--	--	--	07/09/12	01	06/18/12	DTC	ICPLab			HB-3

DC 6/18/12

6/19/12
Date

Manager Reviewed

Date 06/18/2012

David T Camara

Prep Start Date: 6/18/2012 3:50:00 P

Prep End Date: 6/18/2012 4:30:00 P

Prep Batch ID: 66783

Prep Code: SW7471A_PR

Prep Type: 7471B/METHOD

Prep Factor Units:

mL / g

Technician: David T Camara

QC Matrix: N/A Conc HNO3 1112012 5% KMnO4 IR12061305 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 4110110 Reagent 4 Lot: N/A
Filter Lot: N/A Conc HCl (mL): 3.75 Reagent 4 (mL): N/A
Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 06/18/2012 15:50

Digestion Start Time 2: 06/18/2012 16:00

Digestion End Time 1: 06/18/2012 15:52

Digestion End Time 2: 06/18/2012 16:30

Block Temp (C): 96

Therm ID1: MT-47

Corr Fac-3

Miktem Sample ID	Client Samp ID	Final L/g	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	HOT BLOCK
S0		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
S0.2		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
40 uL III120614B														
S1.0		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
200 uL III120614B														
S2.0		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
400 uL III120614B														
S5.0		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
1000 uL III120614B														
S10.0		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
2000 uL III120614B														
ICV		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
1000 uL III120608A														
ICB		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
CCV		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
1000 uL III120608A														
CCB		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
MB-66783		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
LCS-66783		0.6	--	--	--	--			06/18/12	DTC	HgLab			HB-A
1000 uL III120608B														
L1326-04A	GP-23 0-2	S 0.52	--	--	--	--	06/29/12	01	06/18/12	DTC	HgLab			HB-A
TAL														
L1326-06B	GP-24 8-12	S 0.52	--	--	--	--	06/29/12	01	06/18/12	DTC	HgLab			HB-A
TAL														
L1326-06BDUP	GP-24 8-12	S 0.52	--	--	--	--	06/29/12		06/18/12	DTC	HgLab			HB-A
TAL														
L1326-06BMS	GP-24 8-12	S 0.52	--	--	--	--	06/29/12		06/18/12	DTC	HgLab			HB-2
1000 uL III120608B, TAL														
L1335-01B	BH1 8-10	S 0.57	--	--	--	--	07/09/12	01	06/18/12	DTC	HgLab			HB-2
TAL														
L1335-02B	BH3 8-10	S 0.57	--	--	--	--	07/09/12	01	06/18/12	DTC	HgLab			HB-2
TAL														

Logbook ID: 100.0128 -06/12

3

Tuesday, June 19, 2012 08:53

Page 02 of 02

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 6/18/2012 3:50:00 P

Prep End Date: 6/18/2012 4:30:00 P

Prep Batch ID: 66783

QC Matrix: N/A

Conc HNO3 1112012

Conc HNO3 (mL): 1.25

5% KMnO4 IR12061305

5% KMnO4 (mL): 15.0

Filter?: N/A

Conc HCl 4110110

Conc HCl (mL): 3.75

Reagent 4 Lot: N/A

Reagent 4 (mL): N/A

Digestion Start Time 1: 06/18/2012 15:50

Digestion Start Time 2: 06/18/2012 16:00

Digestion End Time 1: 06/18/2012 15:52

Digestion End Time 2: 06/18/2012 16:30

Block Temp (C): 96

Therm ID1: MT-47

Corr Fac:-3

Prep Factor Units:
mL / g

Prep Type: 7471B/METHOD

Technician: David T Camara

Mitkem Sample ID	Client Samp ID	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	HOT BLOCK
L1335-03B	BH2 8-10	S 0.54	100	--	--	--	07/09/12	01	06/18/12	DTC	HgLab			HB-2
TAL														
L1335-04B	BH4	S 0.55	100	--	--	--	07/09/12	01	06/18/12	DTC	HgLab			HB-2
TAL														
L1335-05B	BH5	S 0.56	100	--	--	--	07/09/12	01	06/18/12	DTC	HgLab			HB-2
TAL														
L1335-06B	BH6	S 0.54	100	--	--	--	07/09/12	01	06/18/12	DTC	HgLab			HB-2
TAL														
L1335-07B	BH7	S 0.55	100	--	--	--	07/09/12	01	06/18/12	DTC	HgLab			HB-2
TAL														
L1335-08B	BH8	S 0.54	100	--	--	--	07/09/12	01	06/18/12	DTC	HgLab			HB-2
TAL														
L1335-09B	BH9	S 0.58	100	--	--	--	07/09/12	01	06/18/12	DTC	HgLab			HB-2
TAL														

David T Camara 06/18/2012

Analyst Reviewed

Date

APZA

Manager Reviewed

6/19/12

Date

Comments:

DC 6/18/12

Percent Moisture and Percent Solids Report

<i>Lab Sample ID</i>	<i>Client Sample ID</i>	<i>Analyzed</i>	<i>Percent Moisture</i>	<i>Percent Solids</i>	<i>Validated</i>
<i>L1326-03A</i>	<i>GP-21 22-23.8</i>	06/18/2012	11.554	88.446	Yes
<i>L1326-04A</i>	<i>GP-23 0-2</i>	06/15/2012	17.955	82.045	Yes
<i>L1326-06B</i>	<i>GP-24 8-12</i>	06/15/2012	18.414	81.586	Yes

MITKEM LABORATORIES OPTIMA3 RUN LOG: ICAP/4300DV

Date: 6/19/12

Analyst: Rf

Run ID	OPTIMA3_120619A	FD
Method	EPA CLP ISM 1.3 ICF	
Seq	Lab ID	Analytical Runtime
1	S0	6/19/2012 8:14:44 AM 1
2	S	6/19/2012 8:18:12 AM 1
3	S	6/19/2012 8:21:42 AM 1
4	S	6/19/2012 8:25:13 AM 1
5	S	6/19/2012 8:28:45 AM 1
6	S	6/19/2012 8:32:15 AM 1
7	S	6/19/2012 8:35:54 AM 1
8	ICV	6/19/2012 8:38:35 AM 1
9	ICB	6/19/2012 8:42:05 AM 1
10	ICSA	6/19/2012 8:45:35 AM 1
11	ICSAB	6/19/2012 8:49:08 AM 1
12	CCV	6/19/2012 8:52:41 AM 1
13	CCB	6/19/2012 8:56:09 AM 1
14	L1198-02A	6/19/2012 8:59:39 AM 1
15	L1198-03A	6/19/2012 9:03:20 AM 1
16	L1198-04A	6/19/2012 9:07:01 AM 1
17	L1198-05A	6/19/2012 9:10:38 AM 1
18	L1198-06A	6/19/2012 9:14:14 AM 1
19	L1198-07A	6/19/2012 9:17:49 AM 1
20	L1198-08A	6/19/2012 9:21:29 AM 1
21	CCV	6/19/2012 9:25:09 AM 1
22	CCB	6/19/2012 9:28:37 AM 1
23	L1198-09A	6/19/2012 9:32:07 AM 1
24	L1198-10A	6/19/2012 9:35:47 AM 1
25	L1198-11A	6/19/2012 9:39:27 AM 1
26	L1198-12A	6/19/2012 9:43:07 AM 1
27	L1198-13A	6/19/2012 9:46:47 AM 1
28	L1198-14A	6/19/2012 9:50:27 AM 1
29	L1198-15A	6/19/2012 9:54:12 AM 1
30	L1198-16A	6/19/2012 9:57:53 AM 1
31	BL1198-16ASD	6/19/2012 10:01:35 A 5
32	CCV	6/19/2012 10:05:08 A 1
33	CCB	6/19/2012 10:08:36 A 1

Samples OK

Al Ba Be Cu Mg Mn

+ sample
not needed

HNO3: 1112012

HCL: 4111100

Mixed Acid: R12061904

Logbook ID: 100.0129-04/12

STANDARD: IW120619 A/E/F/G/H/I/J

ICV/CCV: IW120619 B/K

ICSA/ICSAB: IW120619 C/D

TUBING CHANGED? Y

Reviewed By: NZA 6/19/12

Internal Chain of Custody

Client: LABELLA

Work Order: L1326

Profile Name: LABELLA_STANDBY_CONTRACT

MATRIX

Soil

Samp #	Bottle	Test	Status	Received	Date
01A	001	PMoist	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
01A	001	SW8260_LOW_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
01A	001	SW8260_MED_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02A	001	PMoist	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02A	001	SW8081_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02A	001	SW8082_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02A	001	SW8270_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02A	002	PMoist	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02A	002	SW8081_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02A	002	SW8082_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02A	002	SW8270_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02B	001	SW6010_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02B	001	SW7471	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02C	001	SW8260_LOW_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
02C	001	SW8260_MED_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
03A	001	PMoist	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
03A	001	PMoist	Out	Veronica E Brizard	6/18/2012 2:02:36 PM
03A	001	PMoist	In	Veronica E Brizard	6/18/2012 3:02:27 PM
03A	001	SW8260_LOW_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
03A	001	SW8260_MED_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
04A	001	PMoist	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
04A	001	PMoist	Out	Jonathan M Vales	6/15/2012 4:48:17 PM
04A	001	PMoist	In	Jonathan M Vales	6/15/2012 4:48:40 PM
04A	001	SW8260_LOW_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
04A	001	SW8260_MED_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
04A	001	SW9012_S	In	LOGIN: vbrizard	6/15/2012 4:23:00 PM
04A	001	SW9012_S	Out	Ryan Dorsey	6/19/2012 8:35:54 AM
04A	001	SW9012_S	In	Ryan Dorsey	6/19/2012 9:22:50 AM
05A	001	PMoist	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
05A	001	SW8260_LOW_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
05A	001	SW8260_MED_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM

Internal Chain of Custody

Client: LABELLA

Work Order: L1326

Profile Name: LABELLA_STANDBY_CONTRACT

MATRIX

Soil

Samp #	Bottle	Test	Status	Received	Date
06A	001	PMoist	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
06A	001	SW8260_LOW_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
06A	001	SW8260_MED_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
06A	002	PMoist	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
06A	002	SW8260_LOW_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
06A	002	SW8260_MED_S	In	LOGIN: kpierce	6/15/2012 12:15:00 PM
06B	001	SW9012_S	In	LOGIN: vbrizard	6/15/2012 4:23:00 PM
06B	001	SW9012_S	Out	Ryan Dorsey	6/19/2012 8:35:54 AM
06B	001	SW9012_S	In	Ryan Dorsey	6/19/2012 9:22:50 AM
06B	002	PMoist	In	LOGIN: vbrizard	6/18/2012 8:55:00 AM
06B	002	SW6010_S	In	LOGIN: vbrizard	6/18/2012 8:55:00 AM
06B	002	SW6010_S	Out	David T Camara	6/18/2012 9:08:48 AM
06B	002	SW6010_S	In	David T Camara	6/18/2012 4:18:14 PM
06B	002	SW7471	In	LOGIN: vbrizard	6/18/2012 8:55:00 AM
06B	002	SW7471	Out	David T Camara	6/18/2012 9:08:52 AM
06B	002	SW7471	In	David T Camara	6/18/2012 4:18:11 PM
06B	002	SW8081_S	In	LOGIN: vbrizard	6/18/2012 8:55:00 AM
06B	002	SW8081_S	Out	Timothy McDaniel	6/18/2012 8:55:38 AM
06B	002	SW8081_S	In	Timothy McDaniel	6/18/2012 9:07:56 AM
06B	002	SW8082_S	In	LOGIN: vbrizard	6/18/2012 8:55:00 AM
06B	002	SW8082_S	Out	Timothy McDaniel	6/18/2012 8:55:38 AM
06B	002	SW8082_S	In	Timothy McDaniel	6/18/2012 9:07:56 AM
06B	002	SW8270_S	In	LOGIN: vbrizard	6/18/2012 8:55:00 AM
06B	002	SW8270_S	Out	Timothy McDaniel	6/18/2012 8:55:38 AM
06B	002	SW8270_S	In	Timothy McDaniel	6/18/2012 9:07:56 AM
06B	002	SW9012_S	In	LOGIN: vbrizard	6/15/2012 4:23:00 PM

Last Page of Data Report

Report Date:
29-Jun-12 14:59



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

LaBella Associates
300 State Street, Suite 201
Rochester, NY 14614

Work Order: L1323
Project : LaBella Stand By- 3750 Monroe Ave
Project #: 212440

Attn: Dan Noll

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
L1323-01	MW-19	Aqueous	13-Jun-12 11:30	15-Jun-12 09:05
L1323-02	FIELD BLANK	Aqueous	13-Jun-12 11:45	15-Jun-12 09:05
L1323-03	MW-20	Aqueous	13-Jun-12 12:20	15-Jun-12 09:05
L1323-04	MW-17	Aqueous	13-Jun-12 13:30	15-Jun-12 09:05
L1323-05	METHOD BLANK	Aqueous	13-Jun-12 14:00	15-Jun-12 09:05
L1323-06	MW-18	Aqueous	13-Jun-12 14:40	15-Jun-12 09:05
L1323-07	MW-21	Aqueous	13-Jun-12 15:55	15-Jun-12 09:05
L1323-08	MW-22	Aqueous	13-Jun-12 16:30	15-Jun-12 09:05
L1323-09	MW-23	Aqueous	13-Jun-12 17:30	15-Jun-12 09:05
L1323-10	BLIND DUP	Aqueous	13-Jun-12 00:00	15-Jun-12 09:05
L1323-11	MW-24	Aqueous	13-Jun-12 18:00	15-Jun-12 09:05

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 sample(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAP or USEPA CLP requirements have been met.

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
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Data Summary Pack ***

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1323

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-19	L1323-01	SW8260_W				
FIELD BLANK	L1323-02	SW8260_W				
MW-20	L1323-03	SW8260_W				
MW-17	L1323-04	SW8260_W				
METHOD BLANK	L1323-05	SW8260_W				
MW-18	L1323-06	SW8260_W				
MW-21	L1323-07	SW8260_W				
MW-22	L1323-08	SW8260_W				
MW-23	L1323-09	SW8260_W				
BLIND DUP	L1323-10	SW8260_W				
MW-24	L1323-11	SW8260_W	SW8270_W	SW8081_W	SW6010_W	
MW-24	L1323-11			SW8082_W	SW7470	

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1323

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_W					
L1323-01A	AQ	6/13/2012	6/15/2012	NA	6/15/2012
L1323-02A	AQ	6/13/2012	6/15/2012	NA	6/15/2012
L1323-03A	AQ	6/13/2012	6/15/2012	NA	6/16/2012
L1323-04A	AQ	6/13/2012	6/15/2012	NA	6/16/2012
L1323-04ADL	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-04AMS	AQ	6/13/2012	6/15/2012	NA	6/16/2012
L1323-04AMSD	AQ	6/13/2012	6/15/2012	NA	6/16/2012
L1323-05A	AQ	6/13/2012	6/15/2012	NA	6/15/2012
L1323-06A	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-07A	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-07ADL	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-08A	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-08ADL	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-09A	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-09ADL	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-10A	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-11A	AQ	6/13/2012	6/15/2012	NA	6/18/2012
L1323-11ADL	AQ	6/13/2012	6/15/2012	NA	6/18/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1323

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8270_W					
L1323-11B	AQ	6/13/2012	6/15/2012	6/15/2012	6/18/2012
L1323-11BRE	AQ	6/13/2012	6/15/2012	6/15/2012	6/22/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1323

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8081_W					
L1323-11B	AQ	6/13/2012	6/15/2012	6/15/2012	6/18/2012
SW8082_W					
L1323-11B	AQ	6/13/2012	6/15/2012	6/15/2012	6/18/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1323

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_W					
L1323-01A	AQ	SW8260_W	NA	LOW	1
L1323-02A	AQ	SW8260_W	NA	LOW	1
L1323-03A	AQ	SW8260_W	NA	LOW	1
L1323-04A	AQ	SW8260_W	NA	LOW	1
L1323-04ADL	AQ	SW8260_W	NA	LOW	50
L1323-04AMS	AQ	SW8260_W	NA	LOW	1
L1323-04AMSD	AQ	SW8260_W	NA	LOW	1
L1323-05A	AQ	SW8260_W	NA	LOW	1
L1323-06A	AQ	SW8260_W	NA	LOW	2
L1323-07A	AQ	SW8260_W	NA	LOW	1
L1323-07ADL	AQ	SW8260_W	NA	LOW	10
L1323-08A	AQ	SW8260_W	NA	LOW	1
L1323-08ADL	AQ	SW8260_W	NA	LOW	2
L1323-09A	AQ	SW8260_W	NA	LOW	1
L1323-09ADL	AQ	SW8260_W	NA	LOW	500
L1323-10A	AQ	SW8260_W	NA	LOW	1
L1323-11A	AQ	SW8260_W	NA	LOW	1
L1323-11ADL	AQ	SW8260_W	NA	LOW	500

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1323

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8270_W					
L1323-11B	AQ	SW8270_W	3510C	NA	1
L1323-11BRE	AQ	SW8270_W	3510C	NA	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1323

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8081_W					
L1323-11B	AQ	SW8081_W	3510C	Sulfur	1
SW8082_W					
L1323-11B	AQ	SW8082_W	3510C	Acid/Sulfur	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 212440

SDG : L1323

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_W				
L1323-11C	AQ	SW6010_W	6/15/2012	6/18/2012
SW7470				
L1323-11C	AQ	SW7470	6/15/2012	6/18/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1323

Client ID: LABELLA

Project: LaBella Stand By

WO Name: LaBella Stand By- 3750 Monroe Ave

Location: LABELLA_STANDBY_CONTRACT, 212440

Case:

SDG:

PO: 212440

HC Due: 06/29/12

Fax Due: 06/19/12

Fax Report: ☒

Report Level: ASP-B

Special Program:

EDD: ENVIROINSITE_1

EQUIIS_4_NYSDEC

Comments: use this project for between 11-50 samples, no RUSH surcharge base on lab capacity, no charge for MS/MSD or a batch of 7 or more samples, no charge for TB. no hard copy

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1323-01A	MW-19	06/13/2012 11:30	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-02A	FIELD BLANK	06/13/2012 11:45	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-03A	MW-20	06/13/2012 12:20	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-04A	MW-17	06/13/2012 13:30	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B			Y	Y	VOA
L1323-05A	METHOD BLANK	06/13/2012 14:00	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-06A	MW-18	06/13/2012 14:40	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-07A	MW-21	06/13/2012 15:55	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-08A	MW-22	06/13/2012 16:30	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-09A	MW-23	06/13/2012 17:30	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-10A	BLIND DUP	06/13/2012 00:00	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-11A	MW-24	06/13/2012 18:00	06/15/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1323-11B	MW-24	06/13/2012 18:00	06/15/2012	Aqueous	SW8081_W	/					N1
L1323-11B	MW-24	06/13/2012 18:00	06/15/2012	Aqueous	SW8082_W	/					N1
L1323-11B	MW-24	06/13/2012 18:00	06/15/2012	Aqueous	SW8270_W	/ TCL+STARS+TICs				Y	N1

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

HT = Test logged in but has been placed on hold

06/18/2012 11:20

Lab Client Rep: Agnes R Huntley

Page 01 of 02

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1323

Client ID: LABELLA

Project: LaBella Stand By

WO Name: LaBella Stand By- 3750 Monroe Ave

Location: LABELLA_STANDBY_CONTRACT, 212440

Comments: use this project for between 11-50 samples, no RUSH surcharge base on lab capacity, no charge for MS/MSD or a batch of 7 or more samples, no charge for TB. no hard copy

Case:

SDG:

PO: 212440

HC Due: 06/29/12

Fax Due: 06/19/12

Fax Report: ☒

Report Level: ASP-B

Special Program:

EDD: ENVIROINSITE_1

EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1323-11C	MW-24	06/13/2012 18:00	06/15/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1323-11C	MW-24	06/13/2012 18:00	06/15/2012	Aqueous	SW7470	/ TAL					M6

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

HT = Test logged in but has been placed on hold



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Volatiles ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave

Laboratory Workorder / SDG #: L1323

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

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V6

Instrument Type: GCMS-VOA

Description: HP6890 / HP5973

Manufacturer: Hewlett-Packard

Model: 6890 / 5973

GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 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):

Matrix spikes were performed on samples: MW-17 (L1323-04AMS) and MW-17 (L1323-04AMSD).

Percent recoveries were within the QC limits with the following exceptions:

MW-17 (L1323-04AMS) Percent Recovery is outside QC Limits, recovery is above criteria for 1,1,2-Trichloroethane at 130% with criteria of (75-125), 2-Butanone at 168% with criteria of (30-150), Benzene at 121% with criteria of (80-120), Bromodichloromethane at 125% with criteria of (75-120), Chloromethane at 126% with criteria of (40-125), cis-1,2-Dichloroethene at 137% with criteria of (70-125), Methyl tert-butyl ether at 129% with criteria of (65-125)

and Trichloroethene at 405% with criteria of (70-125).

MW-17 (L1323-04AMSD) Percent Recovery is outside QC Limits, recovery is below criteria for cis-1,2-Dichloroethene at 68% with criteria of (70-125) and Trichloroethene at 0% with criteria of (70-125).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:

MW-17 (L1323-04ADL) : Dilution Factor: 50
MW-18 (L1323-06A) : Dilution Factor: 2
MW-21 (L1323-07ADL) : Dilution Factor: 10
MW-22 (L1323-08ADL) : Dilution Factor: 2
MW-23 (L1323-09ADL) : Dilution Factor: 500
MW-24 (L1323-11ADL) : Dilution Factor: 500

G. Samples:

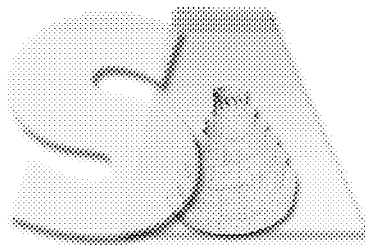
No other unusual occurrences were noted during sample analysis.

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: _____

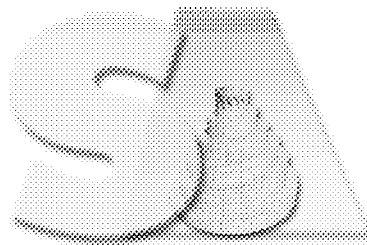
Date: _____ 6/29/2012 _____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-01A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7799.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/15/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-19

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7799.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. Date Analyzed: 06/15/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-19

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7799.D

Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. _____ Date Analyzed: 06/15/2012

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FIELD BLANK

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-02A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7787.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/15/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
FIELD BLANK

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1323</u>	Mod. Ref No.: _____ SDG No.: <u>SL1323</u>
Matrix: (SOIL/SED/WATER) <u>WATER</u>	Lab Sample ID: <u>L1323-02A</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>V6I7787.D</u>
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>06/15/2012</u>
% Moisture: not dec. _____	Date Analyzed: <u>06/15/2012</u>
GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: <u>5.0</u> (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

FIELD BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7787.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/15/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-03A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7800.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/16/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
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	1.5	J
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.1	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.9	
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	0.71	J
79-01-6	Trichloroethene	44	
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-20

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7800.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/16/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-20

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7800.D

Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. Date Analyzed: 06/16/2012

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	78-78-4	Butane, 2-methyl-	2.395	6.9	NJ

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-04A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7801.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/16/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	1.1	J
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	29	
67-64-1	Acetone	14	
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	30	
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	3.6	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	250	E
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	0.55	J
79-01-6	Trichloroethene	2900	E
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.64	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	1.1	J
127-18-4	Tetrachloroethene	0.96	J
591-78-6	2-Hexanone	5.4	
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7801.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/16/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7801.D

Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. _____ Date Analyzed: 06/16/2012

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17DL

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-04ADL
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7821.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 50.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	29	DJ
67-64-1	Acetone	250	U
75-15-0	Carbon disulfide	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
108-05-4	Vinyl acetate	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	260	D
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	8500	D
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7821.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
103-65-1	n-Propylbenzene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
104-51-8	n-Butylbenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
91-20-3	Naphthalene	250	U
110-75-8	2-Chloroethyl vinyl ether	250	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-17DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-04ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7821.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
METHOD BLANK

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-05A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7788.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/15/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
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
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.4	J
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
METHOD BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7788.D
Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/15/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

METHOD BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7788.D

Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. _____ Date Analyzed: 06/15/2012

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-06A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7822.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 2.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
75-09-2	Methylene chloride	2.5	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	4.4	J
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
179601-23-1	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-18

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7822.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. Date Analyzed: 06/18/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
104-51-8	n-Butylbenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
91-20-3	Naphthalene	10	U
110-75-8	2-Chloroethyl vinyl ether	10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-18

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7822.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-07A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7826.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
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	5.5	
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	23	
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.9	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	160	
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	910	E
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.70	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7826.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. Date Analyzed: 06/18/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7826.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21DL

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-07ADL
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7832.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 10.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50	U
75-01-4	Vinyl chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	5.6	DJ
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	50	U
75-09-2	Methylene chloride	50	U
156-60-5	trans-1,2-Dichloroethene	17	DJ
1634-04-4	Methyl tert-butyl ether	50	U
75-34-3	1,1-Dichloroethane	50	U
108-05-4	Vinyl acetate	50	U
78-93-3	2-Butanone	50	U
156-59-2	cis-1,2-Dichloroethene	140	D
67-66-3	Chloroform	50	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon tetrachloride	50	U
107-06-2	1,2-Dichloroethane	50	U
71-43-2	Benzene	50	U
79-01-6	Trichloroethene	1400	D
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
127-18-4	Tetrachloroethene	50	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
179601-23-1	m,p-Xylene	50	U
95-47-6	o-Xylene	50	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-21DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-07ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7832.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. Date Analyzed: 06/18/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
103-65-1	n-Propylbenzene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	4-Isopropyltoluene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
104-51-8	n-Butylbenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
91-20-3	Naphthalene	50	U
110-75-8	2-Chloroethyl vinyl ether	50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-21DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-07ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7832.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-08A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7827.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
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	0.69	J
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.94	J
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	1.9	J
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	210	E
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.84	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	2.4	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-08A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7827.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7827.D

Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. _____ Date Analyzed: 06/18/2012

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22DL

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-08ADL
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7833.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 2.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	1.9	DJ
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	220	D
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	2.3	DJ
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
179601-23-1	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-22DL

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1323</u>	Mod. Ref No.: _____ SDG No.: <u>SL1323</u>
Matrix: (SOIL/SED/WATER) <u>WATER</u>	Lab Sample ID: <u>L1323-08ADL</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>V6I7833.D</u>
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>06/15/2012</u>
% Moisture: not dec. _____	Date Analyzed: <u>06/18/2012</u>
GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm)	Dilution Factor: <u>2.0</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: <u>5.0</u> (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
104-51-8	n-Butylbenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
91-20-3	Naphthalene	10	U
110-75-8	2-Chloroethyl vinyl ether	10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-22DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-08ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7833.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-09A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7828.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
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	120	
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	1.7	J
156-60-5	trans-1,2-Dichloroethene	11	
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	33	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	750	E
67-66-3	Chloroform	8.7	
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	13	
71-43-2	Benzene	1.7	J
79-01-6	Trichloroethene	5300	E
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.4	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	6.4	
127-18-4	Tetrachloroethene	3.7	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-09A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7828.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-23

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-09A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7828.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23DL

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-09ADL
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7834.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 500.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	2500	U
75-01-4	Vinyl chloride	2500	U
74-83-9	Bromomethane	2500	U
75-00-3	Chloroethane	2500	U
75-69-4	Trichlorofluoromethane	2500	U
75-35-4	1,1-Dichloroethene	2500	U
67-64-1	Acetone	2500	U
75-15-0	Carbon disulfide	2500	U
75-09-2	Methylene chloride	2500	U
156-60-5	trans-1,2-Dichloroethene	2500	U
1634-04-4	Methyl tert-butyl ether	2500	U
75-34-3	1,1-Dichloroethane	2500	U
108-05-4	Vinyl acetate	2500	U
78-93-3	2-Butanone	2500	U
156-59-2	cis-1,2-Dichloroethene	960	DJ
67-66-3	Chloroform	2500	U
71-55-6	1,1,1-Trichloroethane	2500	U
56-23-5	Carbon tetrachloride	2500	U
107-06-2	1,2-Dichloroethane	2500	U
71-43-2	Benzene	2500	U
79-01-6	Trichloroethene	43000	D
78-87-5	1,2-Dichloropropane	2500	U
75-27-4	Bromodichloromethane	2500	U
10061-01-5	cis-1,3-Dichloropropene	2500	U
108-10-1	4-Methyl-2-pentanone	2500	U
108-88-3	Toluene	2500	U
10061-02-6	trans-1,3-Dichloropropene	2500	U
79-00-5	1,1,2-Trichloroethane	2500	U
127-18-4	Tetrachloroethene	2500	U
591-78-6	2-Hexanone	2500	U
124-48-1	Dibromochloromethane	2500	U
108-90-7	Chlorobenzene	2500	U
100-41-4	Ethylbenzene	2500	U
179601-23-1	m,p-Xylene	2500	U
95-47-6	o-Xylene	2500	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-23DL

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-09ADL
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7834.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 500.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	2500	U
100-42-5	Styrene	2500	U
75-25-2	Bromoform	2500	U
98-82-8	Isopropylbenzene	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	2500	U
103-65-1	n-Propylbenzene	2500	U
108-67-8	1,3,5-Trimethylbenzene	2500	U
98-06-6	tert-Butylbenzene	2500	U
95-63-6	1,2,4-Trimethylbenzene	2500	U
135-98-8	sec-Butylbenzene	2500	U
99-87-6	4-Isopropyltoluene	2500	U
541-73-1	1,3-Dichlorobenzene	2500	U
106-46-7	1,4-Dichlorobenzene	2500	U
104-51-8	n-Butylbenzene	2500	U
95-50-1	1,2-Dichlorobenzene	2500	U
91-20-3	Naphthalene	2500	U
110-75-8	2-Chloroethyl vinyl ether	2500	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-23DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-09ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7834.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BLIND DUP

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-10A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7835.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
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	2.0	J
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.2	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	6.3	
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	0.73	J
79-01-6	Trichloroethene	58	
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BLIND DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7835.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. Date Analyzed: 06/18/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BLIND DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-10A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7835.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-11A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7830.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
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	340	E
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	14	
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	45	
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1100	E
67-66-3	Chloroform	9.9	
71-55-6	1,1,1-Trichloroethane	2.2	J
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	8.4	
71-43-2	Benzene	3.0	J
79-01-6	Trichloroethene	5400	E
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	8.4	
127-18-4	Tetrachloroethene	3.9	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7830.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. Date Analyzed: 06/18/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-24

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7830.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24DL

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-11ADL
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7836.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 500.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2500	U
75-01-4	Vinyl chloride	2500	U
74-83-9	Bromomethane	2500	U
75-00-3	Chloroethane	2500	U
75-69-4	Trichlorofluoromethane	2500	U
75-35-4	1,1-Dichloroethene	400	DJ
67-64-1	Acetone	2500	U
75-15-0	Carbon disulfide	2500	U
75-09-2	Methylene chloride	2500	U
156-60-5	trans-1,2-Dichloroethene	2500	U
1634-04-4	Methyl tert-butyl ether	2500	U
75-34-3	1,1-Dichloroethane	2500	U
108-05-4	Vinyl acetate	2500	U
78-93-3	2-Butanone	2500	U
156-59-2	cis-1,2-Dichloroethene	1900	DJ
67-66-3	Chloroform	2500	U
71-55-6	1,1,1-Trichloroethane	2500	U
56-23-5	Carbon tetrachloride	2500	U
107-06-2	1,2-Dichloroethane	2500	U
71-43-2	Benzene	2500	U
79-01-6	Trichloroethene	51000	D
78-87-5	1,2-Dichloropropane	2500	U
75-27-4	Bromodichloromethane	2500	U
10061-01-5	cis-1,3-Dichloropropene	2500	U
108-10-1	4-Methyl-2-pentanone	2500	U
108-88-3	Toluene	2500	U
10061-02-6	trans-1,3-Dichloropropene	2500	U
79-00-5	1,1,2-Trichloroethane	2500	U
127-18-4	Tetrachloroethene	2500	U
591-78-6	2-Hexanone	2500	U
124-48-1	Dibromochloromethane	2500	U
108-90-7	Chlorobenzene	2500	U
100-41-4	Ethylbenzene	2500	U
179601-23-1	m,p-Xylene	2500	U
95-47-6	o-Xylene	2500	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-24DL

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-11ADL
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7836.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 500.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	2500	U
100-42-5	Styrene	2500	U
75-25-2	Bromoform	2500	U
98-82-8	Isopropylbenzene	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	2500	U
103-65-1	n-Propylbenzene	2500	U
108-67-8	1,3,5-Trimethylbenzene	2500	U
98-06-6	tert-Butylbenzene	2500	U
95-63-6	1,2,4-Trimethylbenzene	2500	U
135-98-8	sec-Butylbenzene	2500	U
99-87-6	4-Isopropyltoluene	2500	U
541-73-1	1,3-Dichlorobenzene	2500	U
106-46-7	1,4-Dichlorobenzene	2500	U
104-51-8	n-Butylbenzene	2500	U
95-50-1	1,2-Dichlorobenzene	2500	U
91-20-3	Naphthalene	2500	U
110-75-8	2-Chloroethyl vinyl ether	2500	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-24DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7836.D
Level: (TRACE or LOW/MED) LOW Date Received: 06/15/2012
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 500.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-66779

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: MB-66779
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7785.D
Level: (TRACE/LOW/MED) LOW	Date Received:
% Moisture: not dec.	Date Analyzed: 06/15/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
108-05-4	Vinyl acetate	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-66779

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66779

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7785.D

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

% Moisture: not dec. Date Analyzed: 06/15/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
91-20-3	Naphthalene	1.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MB-66779

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66779

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7785.D

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

% Moisture: not dec. _____ Date Analyzed: 06/15/2012

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-66790

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: MB-66790
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7818.D
Level: (TRACE/LOW/MED) LOW	Date Received:
% Moisture: not dec.	Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
108-05-4	Vinyl acetate	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-66790

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66790

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7818.D

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

% Moisture: not dec. Date Analyzed: 06/18/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
91-20-3	Naphthalene	1.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MB-66790

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66790
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7818.D
Level: (TRACE or LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 06/18/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
LCS-66739

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1323</u>	Mod. Ref No.: _____ SDG No.: <u>SL1323</u>
Matrix: (SOIL/SED/WATER) <u>WATER</u>	Lab Sample ID: <u>LCS-66739</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>V6I7782.D</u>
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: _____
% Moisture: not dec. _____	Date Analyzed: <u>06/15/2012</u>
GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: <u>5.0</u> (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	53	
75-01-4	Vinyl chloride	54	
74-83-9	Bromomethane	55	
75-00-3	Chloroethane	54	
75-69-4	Trichlorofluoromethane	49	
75-35-4	1,1-Dichloroethene	52	
67-64-1	Acetone	53	
75-15-0	Carbon disulfide	51	
75-09-2	Methylene chloride	52	
156-60-5	trans-1,2-Dichloroethene	53	
1634-04-4	Methyl tert-butyl ether	52	
75-34-3	1,1-Dichloroethane	52	
108-05-4	Vinyl acetate	52	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	52	
67-66-3	Chloroform	52	
71-55-6	1,1,1-Trichloroethane	51	
56-23-5	Carbon tetrachloride	51	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	52	
79-01-6	Trichloroethene	52	
78-87-5	1,2-Dichloropropane	52	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	54	
108-10-1	4-Methyl-2-pentanone	49	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	53	
79-00-5	1,1,2-Trichloroethane	54	
127-18-4	Tetrachloroethene	49	
591-78-6	2-Hexanone	52	
124-48-1	Dibromochloromethane	52	
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	51	
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	51	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
LCS-66739

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1323</u>	Mod. Ref No.: _____ SDG No.: <u>SL1323</u>
Matrix: (SOIL/SED/WATER) <u>WATER</u>	Lab Sample ID: <u>LCS-66739</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>V6I7782.D</u>
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: _____
% Moisture: not dec. _____	Date Analyzed: <u>06/15/2012</u>
GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: <u>5.0</u> (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	51	
75-25-2	Bromoform	54	
98-82-8	Isopropylbenzene	50	
79-34-5	1,1,2,2-Tetrachloroethane	52	
103-65-1	n-Propylbenzene	52	
108-67-8	1,3,5-Trimethylbenzene	49	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	49	
135-98-8	sec-Butylbenzene	47	
99-87-6	4-Isopropyltoluene	46	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	50	
104-51-8	n-Butylbenzene	48	
95-50-1	1,2-Dichlorobenzene	49	
91-20-3	Naphthalene	42	
110-75-8	2-Chloroethyl vinyl ether	53	

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
LCS-66790

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1323</u>	Mod. Ref No.: _____ SDG No.: <u>SL1323</u>
Matrix: (SOIL/SED/WATER) <u>WATER</u>	Lab Sample ID: <u>LCS-66790</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>V6I7814.D</u>
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: _____
% Moisture: not dec. _____	Date Analyzed: <u>06/18/2012</u>
GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: <u>5.0</u> (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	54	
75-01-4	Vinyl chloride	53	
74-83-9	Bromomethane	52	
75-00-3	Chloroethane	55	
75-69-4	Trichlorofluoromethane	51	
75-35-4	1,1-Dichloroethene	51	
67-64-1	Acetone	50	
75-15-0	Carbon disulfide	50	
75-09-2	Methylene chloride	51	
156-60-5	trans-1,2-Dichloroethene	53	
1634-04-4	Methyl tert-butyl ether	51	
75-34-3	1,1-Dichloroethane	52	
108-05-4	Vinyl acetate	52	
78-93-3	2-Butanone	47	
156-59-2	cis-1,2-Dichloroethene	53	
67-66-3	Chloroform	51	
71-55-6	1,1,1-Trichloroethane	52	
56-23-5	Carbon tetrachloride	54	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	53	
78-87-5	1,2-Dichloropropane	51	
75-27-4	Bromodichloromethane	51	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	46	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	53	
79-00-5	1,1,2-Trichloroethane	53	
127-18-4	Tetrachloroethene	48	
591-78-6	2-Hexanone	48	
124-48-1	Dibromochloromethane	52	
108-90-7	Chlorobenzene	50	
100-41-4	Ethylbenzene	51	
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	49	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
LCS-66790

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1323</u>	Mod. Ref No.: _____ SDG No.: <u>SL1323</u>
Matrix: (SOIL/SED/WATER) <u>WATER</u>	Lab Sample ID: <u>LCS-66790</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID: <u>V6I7814.D</u>
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: _____
% Moisture: not dec. _____	Date Analyzed: <u>06/18/2012</u>
GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: <u>5.0</u> (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	50	
75-25-2	Bromoform	54	
98-82-8	Isopropylbenzene	49	
79-34-5	1,1,2,2-Tetrachloroethane	50	
103-65-1	n-Propylbenzene	50	
108-67-8	1,3,5-Trimethylbenzene	47	
98-06-6	tert-Butylbenzene	47	
95-63-6	1,2,4-Trimethylbenzene	47	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	45	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	49	
104-51-8	n-Butylbenzene	45	
95-50-1	1,2-Dichlorobenzene	46	
91-20-3	Naphthalene	36	
110-75-8	2-Chloroethyl vinyl ether	48	

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17MS

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-04AMS
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7803.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/16/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	63	
75-01-4	Vinyl chloride	58	
74-83-9	Bromomethane	60	
75-00-3	Chloroethane	63	
75-69-4	Trichlorofluoromethane	46	
75-35-4	1,1-Dichloroethene	85	
67-64-1	Acetone	60	
75-15-0	Carbon disulfide	56	
75-09-2	Methylene chloride	61	
156-60-5	trans-1,2-Dichloroethene	90	
1634-04-4	Methyl tert-butyl ether	64	
75-34-3	1,1-Dichloroethane	65	
108-05-4	Vinyl acetate	63	
78-93-3	2-Butanone	84	
156-59-2	cis-1,2-Dichloroethene	320	E
67-66-3	Chloroform	62	
71-55-6	1,1,1-Trichloroethane	55	
56-23-5	Carbon tetrachloride	53	
107-06-2	1,2-Dichloroethane	63	
71-43-2	Benzene	61	
79-01-6	Trichloroethene	3100	E
78-87-5	1,2-Dichloropropane	62	
75-27-4	Bromodichloromethane	62	
10061-01-5	cis-1,3-Dichloropropene	63	
108-10-1	4-Methyl-2-pentanone	65	
108-88-3	Toluene	61	
10061-02-6	trans-1,3-Dichloropropene	62	
79-00-5	1,1,2-Trichloroethane	66	
127-18-4	Tetrachloroethene	54	
591-78-6	2-Hexanone	69	
124-48-1	Dibromochloromethane	63	
108-90-7	Chlorobenzene	59	
100-41-4	Ethylbenzene	57	
179601-23-1	m,p-Xylene	120	
95-47-6	o-Xylene	58	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17MS

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-04AMS
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7803.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/16/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	170	
100-42-5	Styrene	60	
75-25-2	Bromoform	62	
98-82-8	Isopropylbenzene	54	
79-34-5	1,1,2,2-Tetrachloroethane	62	
103-65-1	n-Propylbenzene	58	
108-67-8	1,3,5-Trimethylbenzene	53	
98-06-6	tert-Butylbenzene	50	
95-63-6	1,2,4-Trimethylbenzene	53	
135-98-8	sec-Butylbenzene	47	
99-87-6	4-Isopropyltoluene	47	
541-73-1	1,3-Dichlorobenzene	56	
106-46-7	1,4-Dichlorobenzene	57	
104-51-8	n-Butylbenzene	45	
95-50-1	1,2-Dichlorobenzene	52	
91-20-3	Naphthalene	43	
110-75-8	2-Chloroethyl vinyl ether	62	

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17MSD

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1323	Mod. Ref No.: SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1323-04AMSD
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7804.D
Level: (TRACE/LOW/MED) LOW	Date Received: 06/15/2012
% Moisture: not dec.	Date Analyzed: 06/16/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	54	
75-01-4	Vinyl chloride	49	
74-83-9	Bromomethane	49	
75-00-3	Chloroethane	51	
75-69-4	Trichlorofluoromethane	36	
75-35-4	1,1-Dichloroethene	72	
67-64-1	Acetone	59	
75-15-0	Carbon disulfide	46	
75-09-2	Methylene chloride	52	
156-60-5	trans-1,2-Dichloroethene	79	
1634-04-4	Methyl tert-butyl ether	56	
75-34-3	1,1-Dichloroethane	54	
108-05-4	Vinyl acetate	54	
78-93-3	2-Butanone	74	
156-59-2	cis-1,2-Dichloroethene	290	E
67-66-3	Chloroform	53	
71-55-6	1,1,1-Trichloroethane	47	
56-23-5	Carbon tetrachloride	44	
107-06-2	1,2-Dichloroethane	54	
71-43-2	Benzene	52	
79-01-6	Trichloroethene	2900	E
78-87-5	1,2-Dichloropropane	53	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	54	
108-10-1	4-Methyl-2-pentanone	58	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	57	
127-18-4	Tetrachloroethene	45	
591-78-6	2-Hexanone	62	
124-48-1	Dibromochloromethane	54	
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	49	
179601-23-1	m,p-Xylene	99	
95-47-6	o-Xylene	50	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-17MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-04AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7804.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/15/2012

% Moisture: not dec. Date Analyzed: 06/16/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	52	
75-25-2	Bromoform	55	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	54	
103-65-1	n-Propylbenzene	51	
108-67-8	1,3,5-Trimethylbenzene	47	
98-06-6	tert-Butylbenzene	44	
95-63-6	1,2,4-Trimethylbenzene	46	
135-98-8	sec-Butylbenzene	42	
99-87-6	4-Isopropyltoluene	41	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	49	
104-51-8	n-Butylbenzene	41	
95-50-1	1,2-Dichlorobenzene	46	
91-20-3	Naphthalene	44	
110-75-8	2-Chloroethyl vinyl ether	53	

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-66739	99	97	101	99				0
02	MB-66779	99	101	101	97				0
03	FIELD BLANK	98	98	102	98				0
04	METHOD BLANK	99	102	100	96				0
05	MW-19	99	92	99	95				0
06	MW-20	99	104	100	95				0
07	MW-17	98	104	99	95				0
08	MW-17MS	100	98	99	96				0
09	MW-17MSD	99	99	100	97				0
10	LCS-66790	101	98	100	98				0
11	MB-66790	100	100	99	95				0
12	MW-17DL	99	97	100	96				0
13	MW-18	100	101	99	97				0
14	MW-21	100	103	98	97				0
15	MW-22	101	103	98	97				0
16	MW-23	100	101	102	87				0
17	MW-24	98	104	102	87				0
18	MW-21DL	100	102	98	98				0
19	MW-22DL	100	98	99	97				0
20	MW-23DL	99	100	98	97				0
21	BLIND DUP	99	100	98	96				0
22	MW-24DL	102	101	99	98				0

QC LIMITS
 (85-115)
 (70-120)
 (85-120)
 (75-120)

VDMC1 (DBFM) Dibromofluoromethane
 VDMC2 (DCE) = 1,2-Dichloroethane-d4
 VDMC3 (TOL) = Toluene-d8
 VDMC4 (BFB) = Bromofluorobenzene

Column to be used to flag recovery values
 * Values outside of contract required QC limits

som111.10.27.A

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 Matrix Spike - EPA Sample No.: MW-17 Level: (TRACE or LOW) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	#	QC. LIMITS REC.
Chloromethane	50.0000	0.0000	62.7620	126	*	40-125
Vinyl chloride	50.0000	1.1174	58.2496	114		50-145
Bromomethane	50.0000	0.0000	59.8000	120		30-145
Chloroethane	50.0000	0.0000	62.5517	125		60-135
Trichlorofluoromethane	50.0000	0.0000	45.6062	91		60-145
1,1-Dichloroethene	50.0000	28.6712	85.1671	113		70-130
Acetone	50.0000	13.8085	59.8007	92		40-140
Carbon disulfide	50.0000	0.0000	55.8983	112		35-160
Methylene chloride	50.0000	0.0000	61.3618	123		55-140
trans-1,2-Dichloroethene	50.0000	30.4444	90.1434	119		60-140
Methyl tert-butyl ether	50.0000	0.0000	64.4525	129	*	65-125
1,1-Dichloroethane	50.0000	3.6248	64.9996	123		70-135
Vinyl acetate	50.0000	0.0000	63.0113	126		38-163
2-Butanone	50.0000	0.0000	84.1227	168	*	30-150
cis-1,2-Dichloroethene	50.0000	252.7520	321.3575	137	*	70-125
Chloroform	50.0000	0.0000	62.1363	124		65-135
1,1,1-Trichloroethane	50.0000	0.0000	55.1290	110		65-130
Carbon tetrachloride	50.0000	0.0000	53.2944	107		65-140
1,2-Dichloroethane	50.0000	0.0000	62.9139	126		70-130
Benzene	50.0000	0.5469	60.8897	121	*	80-120
Trichloroethene	50.0000	2917.8736	3120.2025	405	*	70-125
1,2-Dichloropropane	50.0000	0.0000	62.0525	124		75-125
Bromodichloromethane	50.0000	0.0000	62.4233	125	*	75-120
cis-1,3-Dichloropropene	50.0000	0.0000	63.1320	126		70-130
4-Methyl-2-pentanone	50.0000	0.0000	65.4219	131		60-135
Toluene	50.0000	0.6412	60.5593	120		75-120
trans-1,3-Dichloropropene	50.0000	0.0000	62.3954	125		55-140
1,1,2-Trichloroethane	50.0000	1.1033	66.1673	130	*	75-125
Tetrachloroethene	50.0000	0.9647	53.8425	106		45-150
2-Hexanone	50.0000	5.3695	69.0443	127		55-130
Dibromochloromethane	50.0000	0.0000	62.5342	125		60-135
Chlorobenzene	50.0000	0.0000	59.2210	118		80-120
Ethylbenzene	50.0000	0.0000	57.3931	115		75-125
m,p-Xylene	100.0000	0.0000	115.2611	115		75-130
o-Xylene	50.0000	0.0000	58.3316	117		80-120
Xylene (Total)	150.0000	0.0000	173.5927	116		81-121
Styrene	50.0000	0.0000	59.6038	119		65-135
Bromoform	50.0000	0.0000	62.4509	125		70-130
Isopropylbenzene	50.0000	0.0000	53.7418	107		75-125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	61.8236	124		65-130
n-Propylbenzene	50.0000	0.0000	57.6922	115		70-130
1,3,5-Trimethylbenzene	50.0000	0.0000	53.4834	107		75-130
tert-Butylbenzene	50.0000	0.0000	49.6633	99		70-130
1,2,4-Trimethylbenzene	50.0000	0.0000	53.0410	106		75-130

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 Matrix Spike - EPA Sample No.: MW-17 Level: (TRACE or LOW) LOW

sec-Butylbenzene	50.0000	0.0000	47.1597	94		70-125
4-Isopropyltoluene	50.0000	0.0000	47.4268	95		75-130
1,3-Dichlorobenzene	50.0000	0.0000	55.6809	111		75-125
1,4-Dichlorobenzene	50.0000	0.0000	56.5806	113		75-125
n-Butylbenzene	50.0000	0.0000	45.4402	91		70-135
1,2-Dichlorobenzene	50.0000	0.0000	51.8648	104		70-120
Naphthalene	50.0000	0.0000	42.5920	85		55-140
2-Chloroethyl vinyl ether	50.0000	0.0000	62.3564	125		0-169

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	#	%RPD	#	QC LIMITS	
							RPD	REC.
Chloromethane	50.0000	54.0698	108		15		0-40	40-125
Vinyl chloride	50.0000	49.2681	96		17		0-40	50-145
Bromomethane	50.0000	49.3764	99		19		0-40	30-145
Chloroethane	50.0000	51.0133	102		20		0-40	60-135
Trichlorofluoromethane	50.0000	35.7028	71		24		0-40	60-145
1,1-Dichloroethene	50.0000	72.1728	87		26		0-40	70-130
Acetone	50.0000	58.5919	90		3		0-40	40-140
Carbon disulfide	50.0000	46.4062	93		19		0-40	35-160
Methylene chloride	50.0000	51.9972	104		17		0-40	55-140
trans-1,2-Dichloroethene	50.0000	79.3550	98		20		0-40	60-140
Methyl tert-butyl ether	50.0000	56.3898	113		13		0-40	65-125
1,1-Dichloroethane	50.0000	54.3565	101		19		0-40	70-135
Vinyl acetate	50.0000	54.2921	109		15		0-40	38-163
2-Butanone	50.0000	74.4675	149		12		0-40	30-150
cis-1,2-Dichloroethene	50.0000	286.9377	68	*	67	*	0-40	70-125
Chloroform	50.0000	52.7671	106		16		0-40	65-135
1,1,1-Trichloroethane	50.0000	46.5769	93		17		0-40	65-130
Carbon tetrachloride	50.0000	43.8828	88		19		0-40	65-140
1,2-Dichloroethane	50.0000	54.3660	109		15		0-40	70-130
Benzene	50.0000	51.7084	102		16		0-40	80-120
Trichloroethene	50.0000	2858.7044	-118	*	365	*	0-40	70-125
1,2-Dichloropropane	50.0000	53.1518	106		15		0-40	75-125
Bromodichloromethane	50.0000	53.1861	106		16		0-40	75-120
cis-1,3-Dichloropropene	50.0000	53.7313	107		16		0-40	70-130
4-Methyl-2-pentanone	50.0000	58.3073	117		12		0-40	60-135
Toluene	50.0000	51.2830	101		17		0-40	75-120
trans-1,3-Dichloropropene	50.0000	53.5996	107		15		0-40	55-140
1,1,2-Trichloroethane	50.0000	57.2428	112		15		0-40	75-125
Tetrachloroethene	50.0000	45.4360	89		17		0-40	45-150
2-Hexanone	50.0000	62.3472	114		11		0-40	55-130
Dibromochloromethane	50.0000	54.4706	109		14		0-40	60-135
Chlorobenzene	50.0000	51.6612	103		14		0-40	80-120
Ethylbenzene	50.0000	49.3519	99		15		0-40	75-125
m,p-Xylene	100.0000	98.7011	99		15		0-40	75-130
o-Xylene	50.0000	50.3289	101		15		0-40	80-120

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 Matrix Spike - EPA Sample No.: MW-17 Level: (TRACE or LOW) LOW

Xylene (Total)	150.0000	149.0300	99	15	0-40	81-121
Styrene	50.0000	51.5857	103	14	0-40	65-135
Bromoform	50.0000	55.0190	110	13	0-40	70-130
Isopropylbenzene	50.0000	46.7085	93	14	0-40	75-125
1,1,2,2-Tetrachloroethane	50.0000	53.9600	108	14	0-40	65-130
n-Propylbenzene	50.0000	50.9682	102	12	0-40	70-130
1,3,5-Trimethylbenzene	50.0000	46.9087	94	13	0-40	75-130
tert-Butylbenzene	50.0000	44.1799	88	12	0-40	70-130
1,2,4-Trimethylbenzene	50.0000	46.2465	92	14	0-40	75-130
sec-Butylbenzene	50.0000	41.5146	83	13	0-40	70-125
4-Isopropyltoluene	50.0000	41.3861	83	14	0-40	75-130
1,3-Dichlorobenzene	50.0000	48.2739	97	14	0-40	75-125
1,4-Dichlorobenzene	50.0000	49.0836	98	14	0-40	75-125
n-Butylbenzene	50.0000	40.7488	81	11	0-40	70-135
1,2-Dichlorobenzene	50.0000	46.4535	93	11	0-40	70-120
Naphthalene	50.0000	43.5228	87	2	0-40	55-140
2-Chloroethyl vinyl ether	50.0000	53.4707	107	15	0-40	0-169

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

* Values outside of QC limits

RPD: 2 out of 52 outside limits

Spike Recovery: 10 out of 104 outside limits

COMMENTS: _____

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-66739

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66739 LCS Lot No.: _____
Date Extracted: _____ Date Analyzed (1): 06/15/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Chloromethane	50.0000	0.0000	53.3016	107		40 - 125
Vinyl chloride	50.0000	0.0000	53.5853	107		50 - 145
Bromomethane	50.0000	0.0000	54.8947	110		30 - 145
Chloroethane	50.0000	0.0000	54.2381	108		60 - 135
Trichlorofluoromethane	50.0000	0.0000	49.4328	99		60 - 145
1,1-Dichloroethene	50.0000	0.0000	52.0778	104		70 - 130
Acetone	50.0000	0.0000	52.6352	105		40 - 140
Carbon disulfide	50.0000	0.0000	51.4436	103		35 - 160
Methylene chloride	50.0000	0.0000	52.4369	105		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	52.8118	106		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	52.4732	105		65 - 125
1,1-Dichloroethane	50.0000	0.0000	51.9587	104		70 - 135
Vinyl acetate	50.0000	0.0000	52.4615	105		38 - 163
2-Butanone	50.0000	0.0000	51.9245	104		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	52.3539	105		70 - 125
Chloroform	50.0000	0.0000	52.0605	104		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	50.5335	101		65 - 130
Carbon tetrachloride	50.0000	0.0000	51.3678	103		65 - 140
1,2-Dichloroethane	50.0000	0.0000	49.9462	100		70 - 130
Benzene	50.0000	0.0000	51.5691	103		80 - 120
Trichloroethene	50.0000	0.0000	51.6656	103		70 - 125
1,2-Dichloropropane	50.0000	0.0000	52.0684	104		75 - 125
Bromodichloromethane	50.0000	0.0000	50.3810	101		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	53.8056	108		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	49.0372	98		60 - 135
Toluene	50.0000	0.0000	51.6112	103		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	53.1814	106		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	53.6073	107		75 - 125
Tetrachloroethene	50.0000	0.0000	48.8420	98		45 - 150
2-Hexanone	50.0000	0.0000	51.5363	103		55 - 130
Dibromochloromethane	50.0000	0.0000	52.2520	105		60 - 135
Chlorobenzene	50.0000	0.0000	51.8637	104		80 - 120
Ethylbenzene	50.0000	0.0000	50.9957	102		75 - 125
m,p-Xylene	100.0000	0.0000	102.7515	103		75 - 130
o-Xylene	50.0000	0.0000	50.8927	102		80 - 120
Xylene (Total)	150.0000	0.0000	153.6441	102		81 - 121
Styrene	50.0000	0.0000	51.2839	103		65 - 135
Bromoform	50.0000	0.0000	53.6219	107		70 - 130
Isopropylbenzene	50.0000	0.0000	49.6146	99		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	52.2723	105		65 - 130
n-Propylbenzene	50.0000	0.0000	51.5746	103		70 - 130
1,3,5-Trimethylbenzene	50.0000	0.0000	48.9585	98		75 - 130
tert-Butylbenzene	50.0000	0.0000	48.0096	96		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	49.2751	99		75 - 130

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-66739

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66739 LCS Lot No.: _____
Date Extracted: _____ Date Analyzed (1): 06/15/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
sec-Butylbenzene	50.0000	0.0000	46.7990	94		70 - 125
4-Isopropyltoluene	50.0000	0.0000	46.1541	92		75 - 130
1,3-Dichlorobenzene	50.0000	0.0000	49.0696	98		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	50.2628	101		75 - 125
n-Butylbenzene	50.0000	0.0000	47.6885	95		70 - 135
1,2-Dichlorobenzene	50.0000	0.0000	49.2855	99		70 - 120
Naphthalene	50.0000	0.0000	41.6501	83		55 - 140
2-Chloroethyl vinyl ether	50.0000	0.0000	53.2713	107		0 - 169

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

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS: _____

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-66790

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66790 LCS Lot No.: _____
Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Chloromethane	50.0000	0.0000	53.8561	108		40 - 125
Vinyl chloride	50.0000	0.0000	53.3346	107		50 - 145
Bromomethane	50.0000	0.0000	52.0190	104		30 - 145
Chloroethane	50.0000	0.0000	54.7795	110		60 - 135
Trichlorofluoromethane	50.0000	0.0000	50.6776	101		60 - 145
1,1-Dichloroethene	50.0000	0.0000	51.4639	103		70 - 130
Acetone	50.0000	0.0000	50.1589	100		40 - 140
Carbon disulfide	50.0000	0.0000	49.9863	100		35 - 160
Methylene chloride	50.0000	0.0000	51.3147	103		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	52.5390	105		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	50.6615	101		65 - 125
1,1-Dichloroethane	50.0000	0.0000	51.9989	104		70 - 135
Vinyl acetate	50.0000	0.0000	52.2843	105		38 - 163
2-Butanone	50.0000	0.0000	46.6184	93		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	52.5973	105		70 - 125
Chloroform	50.0000	0.0000	51.4964	103		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	51.6741	103		65 - 130
Carbon tetrachloride	50.0000	0.0000	54.4013	109		65 - 140
1,2-Dichloroethane	50.0000	0.0000	51.5993	103		70 - 130
Benzene	50.0000	0.0000	51.0066	102		80 - 120
Trichloroethene	50.0000	0.0000	52.5733	105		70 - 125
1,2-Dichloropropane	50.0000	0.0000	51.2709	103		75 - 125
Bromodichloromethane	50.0000	0.0000	51.2212	102		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	53.4351	107		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	46.0285	92		60 - 135
Toluene	50.0000	0.0000	51.1531	102		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	52.7700	106		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	52.7278	105		75 - 125
Tetrachloroethene	50.0000	0.0000	47.9749	96		45 - 150
2-Hexanone	50.0000	0.0000	48.3332	97		55 - 130
Dibromochloromethane	50.0000	0.0000	52.3530	105		60 - 135
Chlorobenzene	50.0000	0.0000	50.3641	101		80 - 120
Ethylbenzene	50.0000	0.0000	50.6420	101		75 - 125
m,p-Xylene	100.0000	0.0000	99.8734	100		75 - 130
o-Xylene	50.0000	0.0000	49.1196	98		80 - 120
Xylene (Total)	150.0000	0.0000	148.9930	99		81 - 121
Styrene	50.0000	0.0000	50.0373	100		65 - 135
Bromoform	50.0000	0.0000	54.0681	108		70 - 130
Isopropylbenzene	50.0000	0.0000	49.0425	98		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	49.5749	99		65 - 130
n-Propylbenzene	50.0000	0.0000	50.2306	100		70 - 130
1,3,5-Trimethylbenzene	50.0000	0.0000	47.1805	94		75 - 130
tert-Butylbenzene	50.0000	0.0000	46.6722	93		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	47.1307	94		75 - 130

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-66790

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66790 LCS Lot No.: _____
Date Extracted: 06/18/2012 Date Analyzed (1): 06/18/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
sec-Butylbenzene	50.0000	0.0000	45.0861	90		70 - 125
4-Isopropyltoluene	50.0000	0.0000	45.3198	91		75 - 130
1,3-Dichlorobenzene	50.0000	0.0000	47.4489	95		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	48.7105	97		75 - 125
n-Butylbenzene	50.0000	0.0000	44.8829	90		70 - 135
1,2-Dichlorobenzene	50.0000	0.0000	45.8784	92		70 - 120
Naphthalene	50.0000	0.0000	35.6492	71		55 - 140
2-Chloroethyl vinyl ether	50.0000	0.0000	48.3423	97		0 - 169

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

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-66779

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab File ID: V6I7785.D Lab Sample ID: MB-66779
Instrument ID: V6
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 06/15/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 18:08
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-66739	LCS-66739	V6I7782.D	16:44
02	FIELD BLANK	L1323-02A	V6I7787.D	18:56
03	METHOD BLANK	L1323-05A	V6I7788.D	19:19
04	MW-19	L1323-01A	V6I7799.D	23:43
05	MW-20	L1323-03A	V6I7800.D	0:07
06	MW-17	L1323-04A	V6I7801.D	0:31
07	MW-17MS	L1323-04AMS	V6I7803.D	1:19
08	MW-17MSD	L1323-04AMSD	V6I7804.D	1:43

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-66790

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 Lab File ID: V6I7818.D Lab Sample ID: MB-66790
 Instrument ID: V6
 Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 06/18/2012
 Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:36
 GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-66790	LCS-66790	V6I7814.D	10:45
02	MW-17DL	L1323-04ADL	V6I7821.D	13:48
03	MW-18	L1323-06A	V6I7822.D	14:12
04	MW-21	L1323-07A	V6I7826.D	15:48
05	MW-22	L1323-08A	V6I7827.D	16:13
06	MW-23	L1323-09A	V6I7828.D	16:37
07	MW-24	L1323-11A	V6I7830.D	17:25
08	MW-21DL	L1323-07ADL	V6I7832.D	18:13
09	MW-22DL	L1323-08ADL	V6I7833.D	18:37
10	MW-23DL	L1323-09ADL	V6I7834.D	19:01
11	BLIND DUP	L1323-10A	V6I7835.D	19:26
12	MW-24DL	L1323-11ADL	V6I7836.D	19:50

COMMENTS:

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 06/15/2012 06/15/2012
 EPA Sample No.(VSTD#####): VSTD0506A Date Analyzed: 06/15/2012
 Lab File ID (Standard): V6I7781.D Time Analyzed: 16:08
 Instrument ID: V6 Heated Purge: (Y/N) N

	IS1 (S1)	AREA	#	RT	#	IS2 (S2)	AREA	#	RT	#	IS3 (S3)	AREA	#	RT	#
12 HOUR STD	408671			5.309		355987			8.291		194946			10.787	
UPPER LIMIT	817342			5.809		711974			8.791		389892			11.287	
LOWER LIMIT	204336			4.809		177994			7.791		97473			10.287	
SAMPLE NO.															
01 LCS-66739	408299			5.306		351027			8.288		193889			10.797	
02 MB-66779	412766			5.309		356769			8.291		190863			10.788	
03 FIELD BLANK	421294			5.306		361594			8.287		197438			10.796	
04 METHOD BLANK	417683			5.306		362611			8.288		194947			10.797	
05 MW-19	389876			5.308		342306			8.290		181954			10.787	
06 MW-20	397396			5.306		348575			8.287		184301			10.796	
07 MW-17	404939			5.305		352603			8.287		184477			10.796	
08 MW-17MS	369544			5.309		329925			8.291		174013			10.787	
09 MW-17MSD	398499			5.309		351413			8.291		186398			10.788	

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.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 06/15/2012 06/15/2012
 EPA Sample No.(VSTD#####): VSTD0506B Date Analyzed: 06/18/2012
 Lab File ID (Standard): V6I7813.D Time Analyzed: 10:11
 Instrument ID: V6 Heated Purge: (Y/N) N

		IS1 (S1)		IS2 (S2)		IS3 (S3)	
		AREA	#	AREA	#	AREA	#
	12 HOUR STD	424120		373447		203180	
	UPPER LIMIT	848240		746894		406360	
	LOWER LIMIT	212060		186724		101590	
	SAMPLE NO.						
01	LCS-66790	407369	5.306	357909	8.299	200092	10.796
02	MB-66790	398168	5.305	351256	8.299	187273	10.795
03	MW-17DL	403870	5.306	353912	8.288	191547	10.797
04	MW-18	395369	5.306	348441	8.288	187917	10.797
05	MW-21	392203	5.308	349006	8.289	202709	10.786
06	MW-22	386722	5.309	349129	8.291	203951	10.788
07	MW-23	406530	5.306	345099	8.288	155649	10.797
08	MW-24	406027	5.309	344599	8.290	152286	10.787
09	MW-21DL	397256	5.307	353048	8.288	206244	10.785
10	MW-22DL	396430	5.306	351867	8.288	208245	10.797
11	MW-23DL	398961	5.309	353890	8.291	206091	10.788
12	BLIND DUP	397796	5.309	352627	8.290	206196	10.787
13	MW-24DL	395582	5.305	351164	8.299	207624	10.796

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.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

*** Semivolatile Organics ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave

Laboratory Workorder / SDG #: L1323

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

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3
Instrument Type: GCMS-SEMI
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973
GC Column used: 30 m X 0.25 mm ID [0.25 um thickness] Rxi-5sil MS capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

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

MW-24 (L1323-11B), recovery is above criteria for Terphenyl-d14 at 156% with criteria of (50-135), recovery is below criteria for 2,4,6-Tribromophenol at 38% with criteria of (40-125), 2-Fluorophenol at 0% with criteria of (20-110) and Phenol-d5 at 0% with criteria of (10-115).

MW-24 (L1323-11BRE), recovery is below criteria for 2,4,6-Tribromophenol at 0% with criteria of (40-125), 2-Fluorophenol at 0% with criteria of (20-110) and Phenol-d5 at 0% with criteria of (10-115).

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-66849 in batch 66849, Percent Recovery is outside QC Limits, recovery is above criteria for 2,4-Dinitrophenol at 153% with

criteria of (15-140).

LCSD-66769 in batch 66769, Percent Recovery is outside QC Limits, recovery is above criteria for 2,4-Dinitrophenol at 153% with criteria of (15-140).

LCSD-66849 in batch 66849, Concentration exceeded the highest standard of the initial calibration, recovery is above criteria for 2,4-Dinitrophenol at 176% with criteria of (15-140).

LCSD-66849 in batch 66849, Percent Recovery is outside QC Limits, recovery is above criteria for 2,4-Dinitrophenol at 176% with criteria of (15-140).

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 with the following exceptions:

MW-24 (L1323-11B), Peak area is outside QC Limits for Perylene-d12.

MW-24 (L1323-11BRE), Peak area is outside QC Limits for Perylene-d12.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

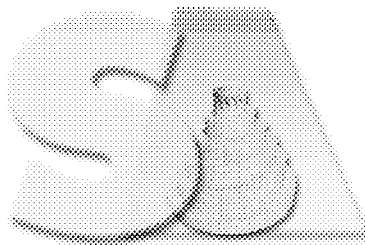
No other unusual occurrences were noted during sample analysis.

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.

A handwritten signature in black ink, appearing to be 'J. H. P.' or similar, written in a cursive style.

Signed: _____

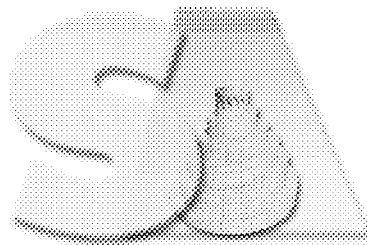
Date: _____ 6/28/2012 _____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11B

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I0965.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/15/2012

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11B

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I0965.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/15/2012

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-24

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11B

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I0965.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/15/2012

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (4.00203)	4.002	5.7	J
02		Unknown (6.04807)	6.048	5.2	J
03	1526-17-6	2-Fluoro-6-nitrophenol	6.176	5.6	NJ
04	1000125-98-6	Phenol, 2-fluoro-4-nitro-, a	7.303	14	NJ
05		Unknown (7.69878)	7.699	60	J
06		Unknown (8.28108)	8.281	8.2	J
07	99-28-5	Phenol, 2,6-dibromo-4-nitro-	9.430	5.4	NJ
08	57-10-3	n-Hexadecanoic acid	9.894	15	NJ
09	295-65-8	Cyclohexadecane	10.311	7.4	NJ
10	78-51-3	Ethanol, 2-butoxy-, phosphat	11.246	120	NJ
11	74685-33-9	3-Eicosene, (E)-	11.561	13	NJ
12	4727-18-8	Cyclopentadecanone, 2-hydrox	11.871	5.6	NJ

² EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24RX

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11BRE

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I1055.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/15/2012

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/22/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24RX

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11BRE

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I1055.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/15/2012

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/22/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	2.1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.5	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-24RX

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11BRE

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I1055.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/15/2012

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/22/2012

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	79-01-6	Trichloroethylene	2.070	1800	NJ
02		Unknown (3.57607)	3.576	100	J
03	1526-17-6	2-Fluoro-6-nitrophenol	6.124	6.4	NJ
04	112-31-2	Decanal	6.492	8.2	NJ
05		Unknown (6.85548)	6.855	8.4	J
06		Unknown (7.65665)	7.657	80	J
07		Unknown (8.87975)	8.880	5.8	J
08	295-65-8	Cyclohexadecane	10.258	4.8	NJ
09	112-88-9	1-Octadecene	10.877	9.8	NJ
10		Unknown (11.02152)	11.022	4.4	J
11		Unknown (11.08562)	11.086	7.6	J
12	78-51-3	Ethanol, 2-butoxy-, phosphat	11.187	120	NJ
13		Unknown (11.21913)	11.219	13	J
14	74685-33-9	3-Eicosene, (E)-	11.497	15	NJ
15		Unknown (11.79597)	11.796	9.8	J

² EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66769

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I0958.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66769

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I0958.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66849

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I1040.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/22/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66849

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I1040.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/22/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-66769

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I0959.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	38	
111-44-4	Bis(2-chloroethyl)ether	40	
95-57-8	2-Chlorophenol	38	
541-73-1	1,3-Dichlorobenzene	40	
106-46-7	1,4-Dichlorobenzene	40	
95-50-1	1,2-Dichlorobenzene	40	
95-48-7	2-Methylphenol	39	
108-60-1	2,2'-oxybis(1-Chloropropane)	40	
106-44-5	4-Methylphenol	39	
621-64-7	N-Nitroso-di-n-propylamine	40	
67-72-1	Hexachloroethane	41	
98-95-3	Nitrobenzene	42	
78-59-1	Isophorone	42	
88-75-5	2-Nitrophenol	43	
105-67-9	2,4-Dimethylphenol	44	
120-83-2	2,4-Dichlorophenol	40	
120-82-1	1,2,4-Trichlorobenzene	39	
91-20-3	Naphthalene	42	
106-47-8	4-Chloroaniline	45	
111-91-1	Bis(2-chloroethoxy)methane	41	
87-68-3	Hexachlorobutadiene	41	
59-50-7	4-Chloro-3-methylphenol	42	
91-57-6	2-Methylnaphthalene	41	
77-47-4	Hexachlorocyclopentadiene	53	
88-06-2	2,4,6-Trichlorophenol	44	
95-95-4	2,4,5-Trichlorophenol	44	
91-58-7	2-Chloronaphthalene	44	
88-74-4	2-Nitroaniline	46	
131-11-3	Dimethylphthalate	45	
208-96-8	Acenaphthylene	43	
606-20-2	2,6-Dinitrotoluene	48	
99-09-2	3-Nitroaniline	48	
83-32-9	Acenaphthene	44	
51-28-5	2,4-Dinitrophenol	65	
100-02-7	4-Nitrophenol	49	
132-64-9	Dibenzofuran	44	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-66769

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I0959.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	51	
84-66-2	Diethylphthalate	46	
7005-72-3	4-Chlorophenyl-phenylether	44	
86-73-7	Fluorene	45	
100-01-6	4-Nitroaniline	47	
534-52-1	4,6-Dinitro-2-methylphenol	59	
86-30-6	N-Nitrosodiphenylamine	46	
101-55-3	4-Bromophenyl-phenylether	46	
118-74-1	Hexachlorobenzene	46	
87-86-5	Pentachlorophenol	47	
85-01-8	Phenanthrene	47	
120-12-7	Anthracene	48	
86-74-8	Carbazole	48	
84-74-2	Di-n-butylphthalate	48	
206-44-0	Fluoranthene	48	
129-00-0	Pyrene	47	
85-68-7	Butylbenzylphthalate	48	
91-94-1	3,3'-Dichlorobenzidine	44	
56-55-3	Benzo(a)anthracene	47	
218-01-9	Chrysene	48	
117-81-7	Bis(2-ethylhexyl)phthalate	49	
117-84-0	Di-n-octylphthalate	46	
205-99-2	Benzo(b)fluoranthene	46	
207-08-9	Benzo(k)fluoranthene	44	
50-32-8	Benzo(a)pyrene	45	
193-39-5	Indeno(1,2,3-cd)pyrene	46	
53-70-3	Dibenzo(a,h)anthracene	46	
191-24-2	Benzo(g,h,i)perylene	46	

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-66849
 Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I1041.D
 Level: (LOW/MED) LOW Extraction: (Type) SEPF
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: _____
 Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2012
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/22/2012
 GPC Cleanup:(Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	38	
111-44-4	Bis(2-chloroethyl)ether	39	
95-57-8	2-Chlorophenol	39	
541-73-1	1,3-Dichlorobenzene	38	
106-46-7	1,4-Dichlorobenzene	39	
95-50-1	1,2-Dichlorobenzene	40	
95-48-7	2-Methylphenol	40	
108-60-1	2,2'-oxybis(1-Chloropropane)	39	
106-44-5	4-Methylphenol	41	
621-64-7	N-Nitroso-di-n-propylamine	41	
67-72-1	Hexachloroethane	39	
98-95-3	Nitrobenzene	42	
78-59-1	Isophorone	42	
88-75-5	2-Nitrophenol	48	
105-67-9	2,4-Dimethylphenol	41	
120-83-2	2,4-Dichlorophenol	41	
120-82-1	1,2,4-Trichlorobenzene	38	
91-20-3	Naphthalene	40	
106-47-8	4-Chloroaniline	46	
111-91-1	Bis(2-chloroethoxy)methane	40	
87-68-3	Hexachlorobutadiene	40	
59-50-7	4-Chloro-3-methylphenol	43	
91-57-6	2-Methylnaphthalene	41	
77-47-4	Hexachlorocyclopentadiene	46	
88-06-2	2,4,6-Trichlorophenol	45	
95-95-4	2,4,5-Trichlorophenol	43	
91-58-7	2-Chloronaphthalene	42	
88-74-4	2-Nitroaniline	46	
131-11-3	Dimethylphthalate	42	
208-96-8	Acenaphthylene	41	
606-20-2	2,6-Dinitrotoluene	49	
99-09-2	3-Nitroaniline	44	
83-32-9	Acenaphthene	42	
51-28-5	2,4-Dinitrophenol	76	
100-02-7	4-Nitrophenol	45	
132-64-9	Dibenzofuran	41	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-66849

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I1041.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/22/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	51	
84-66-2	Diethylphthalate	42	
7005-72-3	4-Chlorophenyl-phenylether	42	
86-73-7	Fluorene	42	
100-01-6	4-Nitroaniline	42	
534-52-1	4,6-Dinitro-2-methylphenol	60	
86-30-6	N-Nitrosodiphenylamine	43	
101-55-3	4-Bromophenyl-phenylether	45	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	48	
85-01-8	Phenanthrene	43	
120-12-7	Anthracene	44	
86-74-8	Carbazole	43	
84-74-2	Di-n-butylphthalate	45	
206-44-0	Fluoranthene	42	
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	46	
91-94-1	3,3'-Dichlorobenzidine	45	
56-55-3	Benzo(a)anthracene	43	
218-01-9	Chrysene	44	
117-81-7	Bis(2-ethylhexyl)phthalate	47	
117-84-0	Di-n-octylphthalate	47	
205-99-2	Benzo(b)fluoranthene	42	
207-08-9	Benzo(k)fluoranthene	41	
50-32-8	Benzo(a)pyrene	41	
193-39-5	Indeno(1,2,3-cd)pyrene	42	
53-70-3	Dibenzo(a,h)anthracene	43	
191-24-2	Benzo(g,h,i)perylene	42	

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66769

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I0960.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	46	
111-44-4	Bis(2-chloroethyl)ether	45	
95-57-8	2-Chlorophenol	46	
541-73-1	1,3-Dichlorobenzene	44	
106-46-7	1,4-Dichlorobenzene	44	
95-50-1	1,2-Dichlorobenzene	44	
95-48-7	2-Methylphenol	47	
108-60-1	2,2'-oxybis(1-Chloropropane)	45	
106-44-5	4-Methylphenol	47	
621-64-7	N-Nitroso-di-n-propylamine	45	
67-72-1	Hexachloroethane	46	
98-95-3	Nitrobenzene	46	
78-59-1	Isophorone	46	
88-75-5	2-Nitrophenol	49	
105-67-9	2,4-Dimethylphenol	51	
120-83-2	2,4-Dichlorophenol	46	
120-82-1	1,2,4-Trichlorobenzene	43	
91-20-3	Naphthalene	45	
106-47-8	4-Chloroaniline	44	
111-91-1	Bis(2-chloroethoxy)methane	46	
87-68-3	Hexachlorobutadiene	45	
59-50-7	4-Chloro-3-methylphenol	47	
91-57-6	2-Methylnaphthalene	46	
77-47-4	Hexachlorocyclopentadiene	59	
88-06-2	2,4,6-Trichlorophenol	49	
95-95-4	2,4,5-Trichlorophenol	48	
91-58-7	2-Chloronaphthalene	48	
88-74-4	2-Nitroaniline	51	
131-11-3	Dimethylphthalate	49	
208-96-8	Acenaphthylene	47	
606-20-2	2,6-Dinitrotoluene	53	
99-09-2	3-Nitroaniline	49	
83-32-9	Acenaphthene	49	
51-28-5	2,4-Dinitrophenol	76	
100-02-7	4-Nitrophenol	52	
132-64-9	Dibenzofuran	47	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66769

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I0960.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/18/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
121-14-2	2,4-Dinitrotoluene	56	
84-66-2	Diethylphthalate	49	
7005-72-3	4-Chlorophenyl-phenylether	48	
86-73-7	Fluorene	49	
100-01-6	4-Nitroaniline	50	
534-52-1	4,6-Dinitro-2-methylphenol	63	
86-30-6	N-Nitrosodiphenylamine	49	
101-55-3	4-Bromophenyl-phenylether	49	
118-74-1	Hexachlorobenzene	48	
87-86-5	Pentachlorophenol	49	
85-01-8	Phenanthrene	49	
120-12-7	Anthracene	50	
86-74-8	Carbazole	51	
84-74-2	Di-n-butylphthalate	50	
206-44-0	Fluoranthene	50	
129-00-0	Pyrene	49	
85-68-7	Butylbenzylphthalate	50	
91-94-1	3,3'-Dichlorobenzidine	47	
56-55-3	Benzo(a)anthracene	50	
218-01-9	Chrysene	49	
117-81-7	Bis(2-ethylhexyl)phthalate	51	
117-84-0	Di-n-octylphthalate	48	
205-99-2	Benzo(b)fluoranthene	46	
207-08-9	Benzo(k)fluoranthene	47	
50-32-8	Benzo(a)pyrene	47	
193-39-5	Indeno(1,2,3-cd)pyrene	47	
53-70-3	Dibenzo(a,h)anthracene	48	
191-24-2	Benzo(g,h,i)perylene	47	

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66849

Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I1042.D

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

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/22/2012

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2	Phenol	41	
111-44-4	Bis(2-chloroethyl)ether	39	
95-57-8	2-Chlorophenol	41	
541-73-1	1,3-Dichlorobenzene	39	
106-46-7	1,4-Dichlorobenzene	39	
95-50-1	1,2-Dichlorobenzene	40	
95-48-7	2-Methylphenol	43	
108-60-1	2,2'-oxybis(1-Chloropropane)	41	
106-44-5	4-Methylphenol	45	
621-64-7	N-Nitroso-di-n-propylamine	45	
67-72-1	Hexachloroethane	41	
98-95-3	Nitrobenzene	43	
78-59-1	Isophorone	42	
88-75-5	2-Nitrophenol	49	
105-67-9	2,4-Dimethylphenol	43	
120-83-2	2,4-Dichlorophenol	43	
120-82-1	1,2,4-Trichlorobenzene	38	
91-20-3	Naphthalene	40	
106-47-8	4-Chloroaniline	46	
111-91-1	Bis(2-chloroethoxy)methane	40	
87-68-3	Hexachlorobutadiene	41	
59-50-7	4-Chloro-3-methylphenol	44	
91-57-6	2-Methylnaphthalene	42	
77-47-4	Hexachlorocyclopentadiene	45	
88-06-2	2,4,6-Trichlorophenol	45	
95-95-4	2,4,5-Trichlorophenol	45	
91-58-7	2-Chloronaphthalene	42	
88-74-4	2-Nitroaniline	48	
131-11-3	Dimethylphthalate	42	
208-96-8	Acenaphthylene	42	
606-20-2	2,6-Dinitrotoluene	51	
99-09-2	3-Nitroaniline	46	
83-32-9	Acenaphthene	43	
51-28-5	2,4-Dinitrophenol	88	E
100-02-7	4-Nitrophenol	48	
132-64-9	Dibenzofuran	42	

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66849
Sample wt/vol: 500 (g/mL) ML Lab File ID: S3I1042.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____
Concentrated Extract Volume: 500 (uL) Date Extracted: 06/20/2012
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 06/22/2012
GPC Cleanup:(Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	53	
84-66-2	Diethylphthalate	43	
7005-72-3	4-Chlorophenyl-phenylether	44	
86-73-7	Fluorene	43	
100-01-6	4-Nitroaniline	46	
534-52-1	4,6-Dinitro-2-methylphenol	64	
86-30-6	N-Nitrosodiphenylamine	44	
101-55-3	4-Bromophenyl-phenylether	45	
118-74-1	Hexachlorobenzene	44	
87-86-5	Pentachlorophenol	51	
85-01-8	Phenanthrene	44	
120-12-7	Anthracene	45	
86-74-8	Carbazole	44	
84-74-2	Di-n-butylphthalate	46	
206-44-0	Fluoranthene	44	
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	47	
91-94-1	3,3'-Dichlorobenzidine	49	
56-55-3	Benzo(a)anthracene	44	
218-01-9	Chrysene	44	
117-81-7	Bis(2-ethylhexyl)phthalate	47	
117-84-0	Di-n-octylphthalate	46	
205-99-2	Benzo(b)fluoranthene	42	
207-08-9	Benzo(k)fluoranthene	41	
50-32-8	Benzo(a)pyrene	41	
193-39-5	Indeno(1,2,3-cd)pyrene	43	
53-70-3	Dibenzo(a,h)anthracene	43	
191-24-2	Benzo(g,h,i)perylene	43	

2H - FORM II SV-2
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

	EPA SAMPLE NO.	SDMC1 (NBZ) #	SDMC2 (FBP) #	SDMC3 (TPH) #	SDMC4 (PHL) #	SDMC5 (2FP) #	SDMC6 (TBP) #			TOT OUT
01	MB-66769	71	72	85	66	63	79			0
02	LCS-66769	81	83	92	75	70	95			0
03	LCSD-66769	88	90	93	91	88	97			0
04	MW-24	80	93	156 *	0 *	0 *	38 *			4
05	MB-66849	87	83	87	82	78	102			0
06	LCS-66849	84	80	87	76	66	94			0
07	LCSD-66849	85	80	85	81	71	98			0
08	MW-24RX	67	68	75	0 *	0 *	0 *			3

QC LIMITS

SDMC1	(NBZ) = Nitrobenzene-d5	(40-110)
SDMC2	(FBP) = 2-Fluorobiphenyl	(50-110)
SDMC3	(TPH) = Terphenyl-d14	(50-135)
SDMC4	(PHL) = Phenol-d5	(10-115)
SDMC5	(2FP) = 2-Fluorophenol	(20-110)
SDMC6	(TBP) = 2,4,6-Tribromophenol	(40-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66769 LCS Lot No.: A084216
Date Extracted: 06/15/2012 Date Analyzed (1): 06/18/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	50.0000	0.0000	37.7682	76		0 - 115
Bis(2-chloroethyl)ether	50.0000	0.0000	40.2204	80		35 - 110
2-Chlorophenol	50.0000	0.0000	38.4406	77		35 - 105
1,3-Dichlorobenzene	50.0000	0.0000	40.0929	80		30 - 100
1,4-Dichlorobenzene	50.0000	0.0000	39.6176	79		30 - 100
1,2-Dichlorobenzene	50.0000	0.0000	39.8333	80		35 - 100
2-Methylphenol	50.0000	0.0000	38.6839	77		40 - 110
2,2'-oxybis(1-Chloropropan	50.0000	0.0000	40.3348	81		30 - 123
4-Methylphenol	50.0000	0.0000	38.9928	78		30 - 110
N-Nitroso-di-n-propylamine	50.0000	0.0000	40.1729	80		35 - 130
Hexachloroethane	50.0000	0.0000	41.3147	83		30 - 95
Nitrobenzene	50.0000	0.0000	41.8079	84		45 - 110
Isophorone	50.0000	0.0000	41.8609	84		50 - 110
2-Nitrophenol	50.0000	0.0000	43.4887	87		40 - 115
2,4-Dimethylphenol	50.0000	0.0000	43.8563	88		30 - 110
2,4-Dichlorophenol	50.0000	0.0000	39.7511	80		50 - 105
1,2,4-Trichlorobenzene	50.0000	0.0000	38.7309	77		35 - 105
Naphthalene	50.0000	0.0000	41.6840	83		40 - 100
4-Chloroaniline	50.0000	0.0000	44.5875	89		15 - 110
Bis(2-chloroethoxy)methane	50.0000	0.0000	41.3126	83		45 - 105
Hexachlorobutadiene	50.0000	0.0000	41.0208	82		25 - 105
4-Chloro-3-methylphenol	50.0000	0.0000	42.1093	84		45 - 110
2-Methylnaphthalene	50.0000	0.0000	41.2019	82		45 - 105
Hexachlorocyclopentadiene	50.0000	0.0000	52.6632	105		27 - 147
2,4,6-Trichlorophenol	50.0000	0.0000	43.8200	88		50 - 115
2,4,5-Trichlorophenol	50.0000	0.0000	43.5568	87		50 - 110
2-Chloronaphthalene	50.0000	0.0000	43.5171	87		50 - 105
2-Nitroaniline	50.0000	0.0000	45.5235	91		50 - 115
Dimethylphthalate	50.0000	0.0000	44.9777	90		25 - 125
Acenaphthylene	50.0000	0.0000	43.4798	87		50 - 105
2,6-Dinitrotoluene	50.0000	0.0000	48.3780	97		50 - 115
3-Nitroaniline	50.0000	0.0000	47.8102	96		20 - 125
Acenaphthene	50.0000	0.0000	44.2501	89		45 - 110
2,4-Dinitrophenol	50.0000	0.0000	64.5808	129		15 - 140
4-Nitrophenol	50.0000	0.0000	49.0756	98		0 - 125
Dibenzofuran	50.0000	0.0000	43.6874	87		55 - 105
2,4-Dinitrotoluene	50.0000	0.0000	50.9491	102		50 - 120
Diethylphthalate	50.0000	0.0000	45.6315	91		40 - 120
4-Chlorophenyl-phenylether	50.0000	0.0000	44.3361	89		50 - 110
Fluorene	50.0000	0.0000	45.0367	90		50 - 110
4-Nitroaniline	50.0000	0.0000	47.0979	94		35 - 120
4,6-Dinitro-2-methylphenol	50.0000	0.0000	58.5196	117		40 - 130
N-Nitrosodiphenylamine	50.0000	0.0000	46.2410	92		50 - 110
4-Bromophenyl-phenylether	50.0000	0.0000	46.0647	92		50 - 115

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 Lab Sample ID: LCS-66769 LCS Lot No.: A084216
 Date Extracted: 06/15/2012 Date Analyzed (1): 06/18/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Hexachlorobenzene	50.0000	0.0000	46.2462	92		50 - 110
Pentachlorophenol	50.0000	0.0000	47.1934	94		40 - 115
Phenanthrene	50.0000	0.0000	46.8813	94		50 - 115
Anthracene	50.0000	0.0000	47.6712	95		55 - 110
Carbazole	50.0000	0.0000	48.2288	96		50 - 115
Di-n-butylphthalate	50.0000	0.0000	47.9717	96		55 - 115
Fluoranthene	50.0000	0.0000	48.1519	96		55 - 115
Pyrene	50.0000	0.0000	47.3064	95		50 - 130
Butylbenzylphthalate	50.0000	0.0000	47.9564	96		45 - 115
3,3'-Dichlorobenzidine	50.0000	0.0000	43.9239	88		20 - 110
Benzo(a)anthracene	50.0000	0.0000	47.3499	95		55 - 110
Chrysene	50.0000	0.0000	47.8850	96		55 - 110
Bis(2-ethylhexyl)phthalate	50.0000	0.0000	49.0551	98		40 - 125
Di-n-octylphthalate	50.0000	0.0000	46.0009	92		35 - 135
Benzo(b)fluoranthene	50.0000	0.0000	46.2449	92		45 - 120
Benzo(k)fluoranthene	50.0000	0.0000	44.0054	88		45 - 125
Benzo(a)pyrene	50.0000	0.0000	44.9055	90		55 - 110
Indeno(1,2,3-cd)pyrene	50.0000	0.0000	45.8078	92		45 - 125
Dibenzo(a,h)anthracene	50.0000	0.0000	46.0700	92		40 - 125
Benzo(g,h,i)perylene	50.0000	0.0000	45.6115	91		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: _____

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66849 LCS Lot No.: A084216
Date Extracted: 06/20/2012 Date Analyzed (1): 06/22/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	50.0000	0.0000	38.0229	76		0 - 115
Bis(2-chloroethyl)ether	50.0000	0.0000	39.0776	78		35 - 110
2-Chlorophenol	50.0000	0.0000	38.6057	77		35 - 105
1,3-Dichlorobenzene	50.0000	0.0000	38.1829	76		30 - 100
1,4-Dichlorobenzene	50.0000	0.0000	38.6629	77		30 - 100
1,2-Dichlorobenzene	50.0000	0.0000	39.5437	79		35 - 100
2-Methylphenol	50.0000	0.0000	39.7975	80		40 - 110
2,2'-oxybis(1-Chloropropan	50.0000	0.0000	39.4433	79		30 - 123
4-Methylphenol	50.0000	0.0000	41.4981	83		30 - 110
N-Nitroso-di-n-propylamine	50.0000	0.0000	41.1253	82		35 - 130
Hexachloroethane	50.0000	0.0000	39.1848	78		30 - 95
Nitrobenzene	50.0000	0.0000	41.8695	84		45 - 110
Isophorone	50.0000	0.0000	41.8005	84		50 - 110
2-Nitrophenol	50.0000	0.0000	47.8220	96		40 - 115
2,4-Dimethylphenol	50.0000	0.0000	41.3997	83		30 - 110
2,4-Dichlorophenol	50.0000	0.0000	41.2242	82		50 - 105
1,2,4-Trichlorobenzene	50.0000	0.0000	37.7732	76		35 - 105
Naphthalene	50.0000	0.0000	40.0784	80		40 - 100
4-Chloroaniline	50.0000	0.0000	46.4881	93		15 - 110
Bis(2-chloroethoxy)methane	50.0000	0.0000	40.4605	81		45 - 105
Hexachlorobutadiene	50.0000	0.0000	39.9282	80		25 - 105
4-Chloro-3-methylphenol	50.0000	0.0000	42.6182	85		45 - 110
2-Methylnaphthalene	50.0000	0.0000	40.7312	81		45 - 105
Hexachlorocyclopentadiene	50.0000	0.0000	46.4964	93		27 - 147
2,4,6-Trichlorophenol	50.0000	0.0000	44.6160	89		50 - 115
2,4,5-Trichlorophenol	50.0000	0.0000	43.3385	87		50 - 110
2-Chloronaphthalene	50.0000	0.0000	41.8129	84		50 - 105
2-Nitroaniline	50.0000	0.0000	46.4026	93		50 - 115
Dimethylphthalate	50.0000	0.0000	41.7690	84		25 - 125
Acenaphthylene	50.0000	0.0000	41.0602	82		50 - 105
2,6-Dinitrotoluene	50.0000	0.0000	49.4209	99		50 - 115
3-Nitroaniline	50.0000	0.0000	44.0520	88		20 - 125
Acenaphthene	50.0000	0.0000	42.1687	84		45 - 110
2,4-Dinitrophenol	50.0000	0.0000	76.3449	153	*	15 - 140
4-Nitrophenol	50.0000	0.0000	45.4786	91		0 - 125
Dibenzofuran	50.0000	0.0000	41.0443	82		55 - 105
2,4-Dinitrotoluene	50.0000	0.0000	50.8005	102		50 - 120
Diethylphthalate	50.0000	0.0000	42.0664	84		40 - 120
4-Chlorophenyl-phenylether	50.0000	0.0000	42.4681	85		50 - 110
Fluorene	50.0000	0.0000	42.2446	84		50 - 110
4-Nitroaniline	50.0000	0.0000	41.9624	84		35 - 120
4,6-Dinitro-2-methylphenol	50.0000	0.0000	60.4396	121		40 - 130
N-Nitrosodiphenylamine	50.0000	0.0000	43.1438	86		50 - 110
4-Bromophenyl-phenylether	50.0000	0.0000	44.6377	89		50 - 115

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66849 LCS Lot No.: A084216
Date Extracted: 06/20/2012 Date Analyzed (1): 06/22/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Hexachlorobenzene	50.0000	0.0000	42.2212	84		50 - 110
Pentachlorophenol	50.0000	0.0000	48.0823	96		40 - 115
Phenanthrene	50.0000	0.0000	43.3983	87		50 - 115
Anthracene	50.0000	0.0000	43.5810	87		55 - 110
Carbazole	50.0000	0.0000	42.6811	85		50 - 115
Di-n-butylphthalate	50.0000	0.0000	45.3622	91		55 - 115
Fluoranthene	50.0000	0.0000	42.3822	85		55 - 115
Pyrene	50.0000	0.0000	45.4489	91		50 - 130
Butylbenzylphthalate	50.0000	0.0000	46.4864	93		45 - 115
3,3'-Dichlorobenzidine	50.0000	0.0000	44.9224	90		20 - 110
Benzo(a)anthracene	50.0000	0.0000	43.2399	86		55 - 110
Chrysene	50.0000	0.0000	44.0621	88		55 - 110
Bis(2-ethylhexyl)phthalate	50.0000	0.0000	47.1916	94		40 - 125
Di-n-octylphthalate	50.0000	0.0000	47.0451	94		35 - 135
Benzo(b)fluoranthene	50.0000	0.0000	42.3311	85		45 - 120
Benzo(k)fluoranthene	50.0000	0.0000	41.2949	83		45 - 125
Benzo(a)pyrene	50.0000	0.0000	40.9395	82		55 - 110
Indeno(1,2,3-cd)pyrene	50.0000	0.0000	42.0967	84		45 - 125
Dibenzo(a,h)anthracene	50.0000	0.0000	43.0917	86		40 - 125
Benzo(g,h,i)perylene	50.0000	0.0000	41.5826	83		40 - 125

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

* Values outside of QC limits

Spike Recovery: 1 out of 64 outside limits

COMMENTS: _____

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66769

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: L1323

Mod. Ref No.:

SDG No.: SL1323

Lab Sample ID: LCSD-66769

LCS Lot No.:

A084216

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #		%RPD #	QC LIMITS	
						RPD	REC.
Phenol	50.0000	46.2497	92		19	40	0 - 115
Bis(2-chloroethyl)ether	50.0000	44.9355	90		12	40	35 - 110
2-Chlorophenol	50.0000	46.0919	92		18	40	35 - 105
1,3-Dichlorobenzene	50.0000	44.4486	89		11	40	30 - 100
1,4-Dichlorobenzene	50.0000	43.9987	88		11	40	30 - 100
1,2-Dichlorobenzene	50.0000	44.3806	89		11	40	35 - 100
2-Methylphenol	50.0000	47.2123	94		20	40	40 - 110
2,2'-oxybis(1-Chloropropan	50.0000	44.8170	90		11	40	30 - 123
4-Methylphenol	50.0000	47.1572	94		19	40	30 - 110
N-Nitroso-di-n-propylamine	50.0000	44.6409	89		11	40	35 - 130
Hexachloroethane	50.0000	46.1895	92		10	40	30 - 95
Nitrobenzene	50.0000	46.0191	92		9	40	45 - 110
Isophorone	50.0000	45.5315	91		8	40	50 - 110
2-Nitrophenol	50.0000	48.6757	97		11	40	40 - 115
2,4-Dimethylphenol	50.0000	51.1735	102		15	40	30 - 110
2,4-Dichlorophenol	50.0000	46.2946	93		15	40	50 - 105
1,2,4-Trichlorobenzene	50.0000	43.1367	86		11	40	35 - 105
Naphthalene	50.0000	45.4180	91		9	40	40 - 100
4-Chloroaniline	50.0000	44.1231	88		1	40	15 - 110
Bis(2-chloroethoxy)methane	50.0000	45.6363	91		9	40	45 - 105
Hexachlorobutadiene	50.0000	45.2626	91		10	40	25 - 105
4-Chloro-3-methylphenol	50.0000	46.8629	94		11	40	45 - 110
2-Methylnaphthalene	50.0000	45.5992	91		10	40	45 - 105
Hexachlorocyclopentadiene	50.0000	58.5236	117		11	40	27 - 147
2,4,6-Trichlorophenol	50.0000	48.8256	98		11	40	50 - 115
2,4,5-Trichlorophenol	50.0000	47.6681	95		9	40	50 - 110
2-Chloronaphthalene	50.0000	48.0115	96		10	40	50 - 105
2-Nitroaniline	50.0000	50.6131	101		10	40	50 - 115
Dimethylphthalate	50.0000	48.5216	97		7	40	25 - 125
Acenaphthylene	50.0000	47.4652	95		9	40	50 - 105
2,6-Dinitrotoluene	50.0000	52.5638	105		8	40	50 - 115
3-Nitroaniline	50.0000	48.5023	97		1	40	20 - 125
Acenaphthene	50.0000	48.7829	98		10	40	45 - 110
2,4-Dinitrophenol	50.0000	76.4056	153	*	17	40	15 - 140
4-Nitrophenol	50.0000	52.0355	104		6	40	0 - 125
Dibenzofuran	50.0000	47.3672	95		9	40	55 - 105
2,4-Dinitrotoluene	50.0000	55.6389	111		8	40	50 - 120
Diethylphthalate	50.0000	49.1032	98		7	40	40 - 120
4-Chlorophenyl-phenylether	50.0000	47.7711	96		8	40	50 - 110
Fluorene	50.0000	48.8374	98		9	40	50 - 110
4-Nitroaniline	50.0000	50.0510	100		6	40	35 - 120
4,6-Dinitro-2-methylphenol	50.0000	62.5048	125		7	40	40 - 130
N-Nitrosodiphenylamine	50.0000	48.7764	98		6	40	50 - 110
4-Bromophenyl-phenylether	50.0000	48.6181	97		5	40	50 - 115
Hexachlorobenzene	50.0000	48.2373	96		4	40	50 - 110
Pentachlorophenol	50.0000	49.1219	98		4	40	40 - 115

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCSD-66769 LCS Lot No.: A084216

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS	
							RPD	REC.
Phenanthrene	50.0000	49.4735	99		5		40	50 - 115
Anthracene	50.0000	49.6681	99		4		40	55 - 110
Carbazole	50.0000	51.3957	103		7		40	50 - 115
Di-n-butylphthalate	50.0000	50.4260	101		5		40	55 - 115
Fluoranthene	50.0000	50.1297	100		4		40	55 - 115
Pyrene	50.0000	48.5304	97		2		40	50 - 130
Butylbenzylphthalate	50.0000	49.6808	99		3		40	45 - 115
3,3'-Dichlorobenzidine	50.0000	47.0482	94		7		40	20 - 110
Benzo(a)anthracene	50.0000	50.0173	100		5		40	55 - 110
Chrysene	50.0000	49.4790	99		3		40	55 - 110
Bis(2-ethylhexyl)phthalate	50.0000	51.0146	102		4		40	40 - 125
Di-n-octylphthalate	50.0000	47.7174	95		3		40	35 - 135
Benzo(b)fluoranthene	50.0000	46.1948	92		0		40	45 - 120
Benzo(k)fluoranthene	50.0000	47.0168	94		7		40	45 - 125
Benzo(a)pyrene	50.0000	46.8456	94		4		40	55 - 110
Indeno(1,2,3-cd)pyrene	50.0000	47.2751	95		3		40	45 - 125
Dibenzo(a,h)anthracene	50.0000	47.8272	96		4		40	40 - 125
Benzo(g,h,i)perylene	50.0000	47.3288	95		4		40	40 - 125

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

* Values outside of QC limits

RPD: 0 out of 64 outside limits

Spike Recovery: 1 out of 64 outside limits

COMMENTS: _____

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66849

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: L1323

Mod. Ref No.:

SDG No.: SL1323

Lab Sample ID: LCSD-66849

LCS Lot No.:

A084216

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #		%RPD #		QC LIMITS	
							RPD	REC.
Phenol	50.0000	41.0728	82		8		40	0 - 115
Bis(2-chloroethyl)ether	50.0000	39.1894	78		0		40	35 - 110
2-Chlorophenol	50.0000	40.6363	81		5		40	35 - 105
1,3-Dichlorobenzene	50.0000	39.3917	79		4		40	30 - 100
1,4-Dichlorobenzene	50.0000	39.1317	78		1		40	30 - 100
1,2-Dichlorobenzene	50.0000	40.4271	81		3		40	35 - 100
2-Methylphenol	50.0000	42.8275	86		7		40	40 - 110
2,2'-oxybis(1-Chloropropan	50.0000	41.3175	83		5		40	30 - 123
4-Methylphenol	50.0000	44.8973	90		8		40	30 - 110
N-Nitroso-di-n-propylamine	50.0000	44.5018	89		8		40	35 - 130
Hexachloroethane	50.0000	40.7227	81		4		40	30 - 95
Nitrobenzene	50.0000	43.1959	86		2		40	45 - 110
Isophorone	50.0000	41.7515	84		0		40	50 - 110
2-Nitrophenol	50.0000	49.3445	99		3		40	40 - 115
2,4-Dimethylphenol	50.0000	43.1374	86		4		40	30 - 110
2,4-Dichlorophenol	50.0000	42.8244	86		5		40	50 - 105
1,2,4-Trichlorobenzene	50.0000	38.1455	76		0		40	35 - 105
Naphthalene	50.0000	39.7993	80		0		40	40 - 100
4-Chloroaniline	50.0000	46.1510	92		1		40	15 - 110
Bis(2-chloroethoxy)methane	50.0000	39.7937	80		1		40	45 - 105
Hexachlorobutadiene	50.0000	40.5849	81		1		40	25 - 105
4-Chloro-3-methylphenol	50.0000	44.1896	88		3		40	45 - 110
2-Methylnaphthalene	50.0000	42.2975	85		5		40	45 - 105
Hexachlorocyclopentadiene	50.0000	45.0183	90		3		40	27 - 147
2,4,6-Trichlorophenol	50.0000	45.0614	90		1		40	50 - 115
2,4,5-Trichlorophenol	50.0000	44.7908	90		3		40	50 - 110
2-Chloronaphthalene	50.0000	41.6597	83		1		40	50 - 105
2-Nitroaniline	50.0000	47.6701	95		2		40	50 - 115
Dimethylphthalate	50.0000	42.3972	85		1		40	25 - 125
Acenaphthylene	50.0000	41.8820	84		2		40	50 - 105
2,6-Dinitrotoluene	50.0000	50.8298	102		3		40	50 - 115
3-Nitroaniline	50.0000	45.8257	92		4		40	20 - 125
Acenaphthene	50.0000	42.9376	86		2		40	45 - 110
2,4-Dinitrophenol	50.0000	87.8275	176	*	14		40	15 - 140
4-Nitrophenol	50.0000	48.0866	96		5		40	0 - 125
Dibenzofuran	50.0000	41.8013	84		2		40	55 - 105
2,4-Dinitrotoluene	50.0000	52.5273	105		3		40	50 - 120
Diethylphthalate	50.0000	42.7367	85		1		40	40 - 120
4-Chlorophenyl-phenylether	50.0000	43.6963	87		2		40	50 - 110
Fluorene	50.0000	43.3825	87		4		40	50 - 110
4-Nitroaniline	50.0000	45.7632	92		9		40	35 - 120
4,6-Dinitro-2-methylphenol	50.0000	63.7580	128		6		40	40 - 130
N-Nitrosodiphenylamine	50.0000	44.0960	88		2		40	50 - 110
4-Bromophenyl-phenylether	50.0000	45.1605	90		1		40	50 - 115
Hexachlorobenzene	50.0000	43.9427	88		5		40	50 - 110
Pentachlorophenol	50.0000	51.0134	102		6		40	40 - 115

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCSD-66849 LCS Lot No.: A084216

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS	
							RPD	REC.
Phenanthrene	50.0000	44.4254	89		2		40	50 - 115
Anthracene	50.0000	45.0245	90		3		40	55 - 110
Carbazole	50.0000	44.2644	89		5		40	50 - 115
Di-n-butylphthalate	50.0000	45.7375	91		0		40	55 - 115
Fluoranthene	50.0000	44.4733	89		5		40	55 - 115
Pyrene	50.0000	45.1900	90		1		40	50 - 130
Butylbenzylphthalate	50.0000	47.0579	94		1		40	45 - 115
3,3'-Dichlorobenzidine	50.0000	48.5009	97		7		40	20 - 110
Benzo(a)anthracene	50.0000	44.0752	88		2		40	55 - 110
Chrysene	50.0000	44.3099	89		1		40	55 - 110
Bis(2-ethylhexyl)phthalate	50.0000	47.2006	94		0		40	40 - 125
Di-n-octylphthalate	50.0000	45.6472	91		3		40	35 - 135
Benzo(b)fluoranthene	50.0000	41.8940	84		1		40	45 - 120
Benzo(k)fluoranthene	50.0000	41.0835	82		1		40	45 - 125
Benzo(a)pyrene	50.0000	41.4271	83		1		40	55 - 110
Indeno(1,2,3-cd)pyrene	50.0000	42.8886	86		2		40	45 - 125
Dibenzo(a,h)anthracene	50.0000	43.4022	87		1		40	40 - 125
Benzo(g,h,i)perylene	50.0000	42.6010	85		2		40	40 - 125

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

* Values outside of QC limits

RPD: 0 out of 64 outside limits

Spike Recovery: 1 out of 64 outside limits

COMMENTS: _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66769

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab File ID: S3I0958.D Lab Sample ID: MB-66769
Instrument ID: S3 Date Extracted: 06/15/2012
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 06/18/2012
Level: (LOW/MED) LOW Time Analyzed: 16:47
Extraction: (Type) SEPF GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-66769	LCS-66769	S3I0959.D	06/18/2012
02	LCSD-66769	LCSD-66769	S3I0960.D	06/18/2012
03	MW-24	L1323-11B	S3I0965.D	06/18/2012

COMMENTS:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66849

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab File ID: S3I1040.D Lab Sample ID: MB-66849
Instrument ID: S3 Date Extracted: 06/20/2012
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 06/22/2012
Level: (LOW/MED) LOW Time Analyzed: 15:51
Extraction: (Type) SEPF GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-66849	LCS-66849	S3I1041.D	06/22/2012
02	LCSD-66849	LCSD-66849	S3I1042.D	06/22/2012
03	MW-24RX	L1323-11BRE	S3I1055.D	06/22/2012

COMMENTS:

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 06/18/2012 06/18/2012
 EPA Sample No.(SSTD020##) SSTD0253B Date Analyzed: 06/18/2012
 Lab File ID (Standard): S3I0951B.D Time Analyzed: 13:22
 Instrument ID: S3

		IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
		AREA	# RT	AREA	# RT	AREA	# RT
12 HOUR STD		62994	4.985	341941	6.486	276003	8.19
UPPER LIMIT		125988	5.485	683882	6.986	552006	8.69
LOWER LIMIT		31497	4.485	170971	5.986	138002	7.69
EPA SAMPLE NO.							
01	MB-66769	42665	4.980	229197	6.486	194999	8.185
02	LCS-66769	51404	4.984	273251	6.485	214484	8.189
03	LCSD-66769	47832	4.981	258940	6.488	203243	8.187
04	MW-24	41998	4.985	233327	6.486	195421	8.185

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.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 EPA Sample No.(SSTD020##) SSTD0253B Date Analyzed: 06/18/2012
 Lab File ID (Standard): S3I0951B.D Time Analyzed: 13:22
 Instrument ID: S3 GC Column: Rxi-5sil MS ID: 0.25 (mm)

		IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
		AREA	# RT	AREA	# RT	AREA	# RT
	12 HOUR STD	613420	9.467	839174	11.78	810275	13.805
	UPPER LIMIT	1226840	9.967	1678348	12.28	1620550	14.305
	LOWER LIMIT	306710	8.967	419587	11.28	405138	13.305
	EPA SAMPLE NO.						
01	MB-66769	465547	9.462	638894	11.764	665157	13.789
02	LCS-66769	476898	9.466	686268	11.774	718032	13.793
03	LCSD-66769	464093	9.463	671851	11.771	710755	13.796
04	MW-24	456739	9.462	657363	11.769	271030 *	13.778

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.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 06/21/2012 06/21/2012
 EPA Sample No.(SSTD020##) SSTD0253F Date Analyzed: 06/22/2012
 Lab File ID (Standard): S3I1031.D Time Analyzed: 11:47
 Instrument ID: S3

		IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
		AREA	#	AREA	#	AREA	#
12 HOUR STD		24459	4.92	168386	6.426	172803	8.13
UPPER LIMIT		48918	5.42	336772	6.926	345606	8.63
LOWER LIMIT		12230	4.42	84193	5.926	86402	7.63
EPA SAMPLE NO.							
01	MB-66849	26566	4.922	156615	6.428	153647	8.127
02	LCS-66849	48912	4.922	303985	6.428	277832	8.132
03	LCSD-66849	37001	4.920	247057	6.426	231224	8.130
04	MW-24RX	23135	4.922	154185	6.428	156468	8.132

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.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 EPA Sample No.(SSTD020##) SSTD0253F Date Analyzed: 06/22/2012
 Lab File ID (Standard): S3I1031.D Time Analyzed: 11:47
 Instrument ID: S3 GC Column: Rxi-5sil MS ID: 0.25 (mm)

		IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
		AREA	#	AREA	#	AREA	#
	12 HOUR STD	461313	9.407	873872	11.703	995275	13.685
	UPPER LIMIT	922626	9.907	1747744	12.203	1990550	14.185
	LOWER LIMIT	230657	8.907	436936	11.203	497638	13.185
	EPA SAMPLE NO.						
01	MB-66849	418059	9.403	848837	11.695	1078072	13.676
02	LCS-66849	680936	9.408	1115288	11.705	1313851	13.687
03	LCSD-66849	576339	9.407	996796	11.703	1233759	13.685
04	MW-24RX	450094	9.409	965675	11.700	1732 *	13.660

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.



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Pesticide Organics ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave

Laboratory Workorder / SDG #: L1323

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

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

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 with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

MW-24 (L1323-11B), recovery is below criteria for Decachlorobiphenyl on rear column, at 27% with criteria of (30-135) and Decachlorobiphenyl on front column, at 30% with criteria of (30-135).

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%.

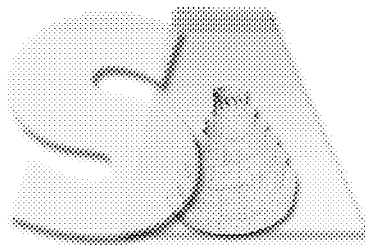
No other unusual occurrences were noted during sample analysis.

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.

A handwritten signature in black ink, appearing to be 'J. H. D.', is written over a horizontal line.

Signed: _____

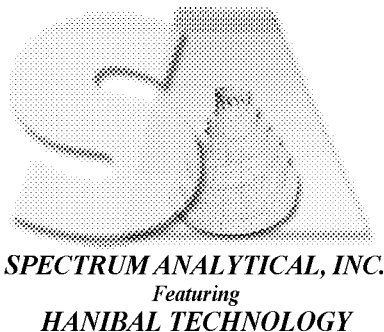
Date: _____ 6/28/2012 _____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11B

Sample wt/vol: 500 (g/mL) ML Lab File ID: E5H8782F.D/E5H8782R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/15/2012

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2012

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:	Q
		(ug/L or ug/Kg) <u>UG/L</u>	
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66767

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66767

Sample wt/vol: 500 (g/mL) ML Lab File ID: E5H8779F.D/E5H8779R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2012

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:	Q
		(ug/L or ug/Kg) <u>UG/L</u>	
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66767(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-66767

Sample wt/vol: 500 (g/mL) ML Lab File ID: E5H8780F.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.20	
319-85-7	beta-BHC	0.22	
319-86-8	delta-BHC	0.21	
58-89-9	gamma-BHC (Lindane)	0.20	
76-44-8	Heptachlor	0.21	
309-00-2	Aldrin	0.20	
1024-57-3	Heptachlor epoxide	0.20	
959-98-8	Endosulfan I	0.21	
60-57-1	Dieldrin	0.42	
72-55-9	4,4'-DDE	0.42	
72-20-8	Endrin	0.41	
33213-65-9	Endosulfan II	0.42	
72-54-8	4,4'-DDD	0.38	
1031-07-8	Endosulfan sulfate	0.42	
50-29-3	4,4'-DDT	0.40	
72-43-5	Methoxychlor	2.3	
53494-70-5	Endrin ketone	0.43	
7421-93-4	Endrin aldehyde	0.40	
5103-71-9	alpha-Chlordane	0.19	
5103-74-2	gamma-Chlordane	0.18	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66767(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-66767

Sample wt/vol: 500 (g/mL) ML Lab File ID: E5H8780R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.19	
319-85-7	beta-BHC	0.18	
319-86-8	delta-BHC	0.20	
58-89-9	gamma-BHC (Lindane)	0.19	
76-44-8	Heptachlor	0.19	
309-00-2	Aldrin	0.18	
1024-57-3	Heptachlor epoxide	0.18	
959-98-8	Endosulfan I	0.18	
60-57-1	Dieldrin	0.36	
72-55-9	4,4'-DDE	0.36	
72-20-8	Endrin	0.36	
33213-65-9	Endosulfan II	0.36	
72-54-8	4,4'-DDD	0.36	
1031-07-8	Endosulfan sulfate	0.36	
50-29-3	4,4'-DDT	0.36	
72-43-5	Methoxychlor	1.9	
53494-70-5	Endrin ketone	0.37	
7421-93-4	Endrin aldehyde	0.36	
5103-71-9	alpha-Chlordane	0.17	
5103-74-2	gamma-Chlordane	0.19	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66767(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66767

Sample wt/vol: 500 (g/mL) ML Lab File ID: E5H8781F.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.18	
319-85-7	beta-BHC	0.22	
319-86-8	delta-BHC	0.19	
58-89-9	gamma-BHC (Lindane)	0.18	
76-44-8	Heptachlor	0.19	
309-00-2	Aldrin	0.18	
1024-57-3	Heptachlor epoxide	0.19	
959-98-8	Endosulfan I	0.19	
60-57-1	Dieldrin	0.39	
72-55-9	4,4'-DDE	0.39	
72-20-8	Endrin	0.37	
33213-65-9	Endosulfan II	0.39	
72-54-8	4,4'-DDD	0.35	
1031-07-8	Endosulfan sulfate	0.39	
50-29-3	4,4'-DDT	0.37	
72-43-5	Methoxychlor	2.1	
53494-70-5	Endrin ketone	0.40	
7421-93-4	Endrin aldehyde	0.37	
5103-71-9	alpha-Chlordane	0.18	
5103-74-2	gamma-Chlordane	0.17	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66767(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66767

Sample wt/vol: 500 (g/mL) ML Lab File ID: E5H8781R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2012

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) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.17	
319-85-7	beta-BHC	0.16	
319-86-8	delta-BHC	0.18	
58-89-9	gamma-BHC (Lindane)	0.18	
76-44-8	Heptachlor	0.18	
309-00-2	Aldrin	0.17	
1024-57-3	Heptachlor epoxide	0.17	
959-98-8	Endosulfan I	0.17	
60-57-1	Dieldrin	0.34	
72-55-9	4,4'-DDE	0.34	
72-20-8	Endrin	0.33	
33213-65-9	Endosulfan II	0.33	
72-54-8	4,4'-DDD	0.33	
1031-07-8	Endosulfan sulfate	0.34	
50-29-3	4,4'-DDT	0.33	
72-43-5	Methoxychlor	1.8	
53494-70-5	Endrin ketone	0.35	
7421-93-4	Endrin aldehyde	0.34	
5103-71-9	alpha-Chlordane	0.16	
5103-74-2	gamma-Chlordane	0.18	
8001-35-2	Toxaphene	5.0	U

2N - FORM II PEST-1
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
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-66767	94	93	100	92			0
02	LCS-66767	96	94	106	98			0
03	LCSD-66767	86	85	97	90			0
04	MW-24	72	63	30 *	27 *			2

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

QC LIMITS
(25-140)
(30-135)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

som111.10.27.A

3L - FORM III PEST-3
WATER PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66767

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66767 LCS Lot No.: A079294
Date Extracted: 06/15/2012 Date Analyzed (1): 06/18/2012
Instrument ID (1): E5 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
alpha-BHC	0.2000	0.1986	99		60-130
beta-BHC	0.2000	0.2242	112		65-125
delta-BHC	0.2000	0.2098	105		45-135
gamma-BHC (Lindane)	0.2000	0.2016	101		25-135
Heptachlor	0.2000	0.2089	104		40-130
Aldrin	0.2000	0.1955	98		25-140
Heptachlor epoxide	0.2000	0.2035	102		60-130
Endosulfan I	0.2000	0.2074	104		50-110
Dieldrin	0.4000	0.4187	105		60-130
4,4'-DDE	0.4000	0.4203	105		35-140
Endrin	0.4000	0.4084	102		55-135
Endosulfan II	0.4000	0.4193	105		30-130
4,4'-DDD	0.4000	0.3820	96		25-150
Endosulfan sulfate	0.4000	0.4210	105		55-135
4,4'-DDT	0.4000	0.4049	101		45-140
Methoxychlor	2.0000	2.2835	114		55-150
Endrin ketone	0.4000	0.4347	109		75-125
Endrin aldehyde	0.4000	0.4037	101		55-135
alpha-Chlordane	0.2000	0.1893	95		65-125
gamma-Chlordane	0.2000	0.1800	90		60-125

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)
Date Analyzed (2): 06/18/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
alpha-BHC	0.2000	0.1855	93		60-130
beta-BHC	0.2000	0.1823	91		65-125
delta-BHC	0.2000	0.1988	99		45-135
gamma-BHC (Lindane)	0.2000	0.1924	96		25-135

COMMENTS:

3L - FORM III PEST-3
WATER PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66767

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66767 LCS Lot No.: A079294
Date Extracted: 06/15/2012 Date Analyzed (1): 06/18/2012

Heptachlor	0.2000	0.1942	97	40-130
Aldrin	0.2000	0.1806	90	25-140
Heptachlor epoxide	0.2000	0.1812	91	60-130
Endosulfan I	0.2000	0.1819	91	50-110
Dieldrin	0.4000	0.3630	91	60-130
4,4'-DDE	0.4000	0.3635	91	35-140
Endrin	0.4000	0.3574	89	55-135
Endosulfan II	0.4000	0.3601	90	30-130
4,4'-DDD	0.4000	0.3579	89	25-150
Endosulfan sulfate	0.4000	0.3647	91	55-135
4,4'-DDT	0.4000	0.3560	89	45-140
Methoxychlor	2.0000	1.9275	96	55-150
Endrin ketone	0.4000	0.3719	93	75-125
Endrin aldehyde	0.4000	0.3607	90	55-135
alpha-Chlordane	0.2000	0.1711	86	65-125
gamma-Chlordane	0.2000	0.1908	95	60-125

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:

3L - FORM III PEST-3
WATER PESTICIDE LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66767

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCSD-66767 LCS Lot No.: A079294
Date Extracted: 06/15/2012 Date Analyzed (1): 06/18/2012
Instrument ID (1): E5 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
alpha-BHC	0.2000	0.1828	91	60-130	8.0	30
beta-BHC	0.2000	0.2199	110	65-125	2.0	30
delta-BHC	0.2000	0.1865	93	45-135	12	30
gamma-BHC (Lindane)	0.2000	0.1846	92	25-135	9.0	30
Heptachlor	0.2000	0.1934	97	40-130	7.0	30
Aldrin	0.2000	0.1792	90	25-140	9.0	30
Heptachlor epoxide	0.2000	0.1868	93	60-130	9.0	30
Endosulfan I	0.2000	0.1907	95	50-110	9.0	30
Dieldrin	0.4000	0.3850	96	60-130	9.0	30
4,4'-DDE	0.4000	0.3903	98	35-140	7.0	30
Endrin	0.4000	0.3727	93	55-135	9.0	30
Endosulfan II	0.4000	0.3869	97	30-130	8.0	30
4,4'-DDD	0.4000	0.3465	87	25-150	10	30
Endosulfan sulfate	0.4000	0.3919	98	55-135	7.0	30
4,4'-DDT	0.4000	0.3719	93	45-140	8.0	30
Methoxychlor	2.0000	2.0867	104	55-150	9.0	30
Endrin ketone	0.4000	0.3958	99	75-125	10	30
Endrin aldehyde	0.4000	0.3727	93	55-135	8.0	30
alpha-Chlordane	0.2000	0.1769	88	65-125	8.0	30
gamma-Chlordane	0.2000	0.1733	87	60-125	3.0	30

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)
Date Analyzed (2): 06/18/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
alpha-BHC	0.2000	0.1676	84	60-130	10	30
beta-BHC	0.2000	0.1629	81	65-125	12	30
delta-BHC	0.2000	0.1833	92	45-135	7.0	30
gamma-BHC (Lindane)	0.2000	0.1808	90	25-135	6.0	30

COMMENTS:

3L - FORM III PEST-3
WATER PESTICIDE LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66767

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCSD-66767 LCS Lot No.: A079294
Date Extracted: 06/15/2012 Date Analyzed (1): 06/18/2012

Heptachlor	0.2000	0.1765	88	40-130	10	30
Aldrin	0.2000	0.1680	84	25-140	7.0	30
Heptachlor epoxide	0.2000	0.1695	85	60-130	7.0	30
Endosulfan I	0.2000	0.1688	84	50-110	8.0	30
Dieldrin	0.4000	0.3371	84	60-130	8.0	30
4,4'-DDE	0.4000	0.3368	84	35-140	8.0	30
Endrin	0.4000	0.3317	83	55-135	7.0	30
Endosulfan II	0.4000	0.3326	83	30-130	8.0	30
4,4'-DDD	0.4000	0.3301	83	25-150	7.0	30
Endosulfan sulfate	0.4000	0.3375	84	55-135	8.0	30
4,4'-DDT	0.4000	0.3262	82	45-140	8.0	30
Methoxychlor	2.0000	1.7762	89	55-150	8.0	30
Endrin ketone	0.4000	0.3457	86	75-125	8.0	30
Endrin aldehyde	0.4000	0.3409	85	55-135	6.0	30
alpha-Chlordane	0.2000	0.1594	80	65-125	7.0	30
gamma-Chlordane	0.2000	0.1823	91	60-125	4.0	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:

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66767

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab File ID: E5H8779F.D / E5H8779R.D Lab Sample ID: MB-66767
Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 06/15/2012
Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Date Analyzed (1): 06/18/2012 Date Analyzed (2): 06/18/2012
Time Analyzed (1): 17:13 Time Analyzed (2): 17:13
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-66767	LCS-66767	06/18/2012	06/18/2012
02	LCSD-66767	LCSD-66767	06/18/2012	06/18/2012
03	MW-24	L1323-11B	06/18/2012	06/18/2012

COMMENTS:



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** PCB Organics ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave

Laboratory Workorder / SDG #: L1323

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

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

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 with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

MW-24 (L1323-11B), recovery is below criteria for Decachlorobiphenyl on front column, at 39% with criteria of (40-135).

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%.

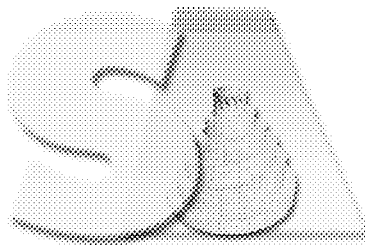
No other unusual occurrences were noted during sample analysis.

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.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

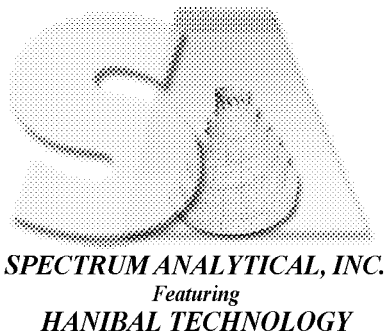
Date: _____ 6/28/2012 _____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1323-11B

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2L1436F.D/E2L1436R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 06/15/2012

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2012

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:		Q
		(ug/L or ug/Kg)	UG/L	
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		1.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66768

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66768

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2L1465F.D/E2L1465R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2012

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/L
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66768(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-66768

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2L1466F.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2012

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) <u>UG/L</u>	Q
12674-11-2	Aroclor-1016	3.7	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	4.0	

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66768(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-66768

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2L1466R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2012

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) <u>UG/L</u>	Q
12674-11-2	Aroclor-1016	3.6	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	4.0	

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66768(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66768

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2L1467F.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2012

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) <u>UG/L</u>	Q
12674-11-2	Aroclor-1016	3.8	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	4.1	

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66768(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66768

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2L1467R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 06/15/2012

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2012

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) <u>UG/L</u>	Q
12674-11-2	Aroclor-1016	3.7	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	4.1	

2Q - FORM II ARO-1
WATER AROCLOR SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
 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	MW-24	78	77	39 *	47			1
02	MB-66768	76	75	93	109			0
03	LCS-66768	76	76	98	112			0
04	LCSD-66768	80	78	102	116			0

QC LIMITS
(34-137)
(40-135)

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

som111.10.27.A

3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66768

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCS-66768 LCS Lot No.: A082781
Date Extracted: 06/15/2012 Date Analyzed (1): 06/19/2012
Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
Aroclor-1016	4.0000	3.7492	94	25-145
Aroclor-1260	4.0000	4.0308	101	30-145

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)
Date Analyzed (2): 06/19/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
Aroclor-1016	4.0000	3.5574	89	25-145
Aroclor-1260	4.0000	4.0072	100	30-145

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:

3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66768

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab Sample ID: LCSD-66768 LCS Lot No.: A082781
Date Extracted: 06/15/2012 Date Analyzed (1): 06/19/2012
Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
Aroclor-1016	4.0000	3.8413	96	25-145	2.0	30
Aroclor-1260	4.0000	4.1437	104	30-145	3.0	30

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)
Date Analyzed (2): 06/19/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
Aroclor-1016	4.0000	3.6788	92	25-145	3.0	30
Aroclor-1260	4.0000	4.1095	103	30-145	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:

4F - FORM IV ARO
AROCOLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66768

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1323 Mod. Ref No.: _____ SDG No.: SL1323
Lab File ID: E2L1465F.D / E2L1465R.D Lab Sample ID: MB-66768
Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 06/15/2012
Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N
Acid Cleanup: (Y/N) Y
Date Analyzed (1): 06/19/2012 Date Analyzed (2): 06/19/2012
Time Analyzed (1): 11:10 Time Analyzed (2): 11:10
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	MW-24	L1323-11B	06/18/2012	06/18/2012
02	LCS-66768	LCS-66768	06/19/2012	06/19/2012
03	LCSD-66768	LCSD-66768	06/19/2012	06/19/2012

COMMENTS:



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Metals ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By- 3750 Monroe Ave

Laboratory Workorder / SDG #: L1323

SW846 6010C, SW846 7470A

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 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

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):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

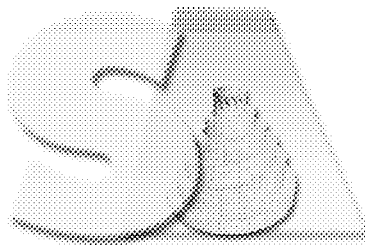
No unusual occurrences were noted during sample analysis.

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



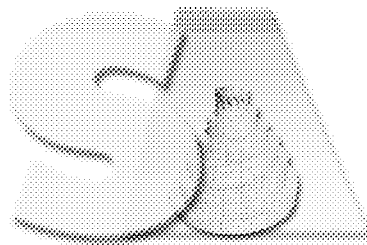
Date: 06/27/12



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-24

Lab Name: Spectrum Analytical, Inc. Contract: 212440Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1323Matrix (soil/water): WATER Lab Sample ID: L1323-11Level (low/med): MED Date Received: 06/15/2012% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	302000			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	226			P
7440-39-3	Barium	2690			P
7440-41-7	Beryllium	10.3			P
7440-43-9	Cadmium	29.8			P
7440-70-2	Calcium	5450000			P
7440-47-3	Chromium	680			P
7440-48-4	Cobalt	359			P
7440-50-8	Copper	1010			P
7439-89-6	Iron	758000			P
7439-92-1	Lead	185			P
7439-95-4	Magnesium	948000			P
7439-96-5	Manganese	35800			P
7439-97-6	Mercury	0.78			CV
7440-02-0	Nickel	588			P
7440-09-7	Potassium	22200			P
7782-49-2	Selenium	52.7			P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	67100			P
7440-28-0	Thallium	56.6			P
7440-62-2	Vanadium	687			P
7440-66-6	Zinc	1440			P

Comments:

U.S. EPA - CLP
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LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 212440
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1323
 Solid LCS Source: _____ LCS(D) ID: _____
 Aqueous LCS Source: _____ **LCS-66741**

Analyte	Aqueous (ug/L)			Solid (mg/Kg)					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	9100.0	8833.37	97.1						
Antimony	455.0	492.40	108.2						
Arsenic	455.0	480.43	105.6						
Barium	9100.0	9547.98	104.9						
Beryllium	227.0	236.44	104.2						
Cadmium	227.0	230.60	101.6						
Calcium	22700.0	22634.05	99.7						
Chromium	910.0	929.68	102.2						
Cobalt	2270.0	2333.22	102.8						
Copper	1130.0	1162.89	102.9						
Iron	4550.0	4663.92	102.5						
Lead	455.0	466.87	102.6						
Magnesium	22700.0	23523.15	103.6						
Manganese	2270.0	2356.70	103.8						
Nickel	2270.0	2335.96	102.9						
Potassium	22700.0	23535.05	103.7						
Selenium	455.0	474.47	104.3						
Silver	1130.0	1210.42	107.1						
Sodium	22700.0	23503.60	103.5						
Thallium	455.0	434.50	95.5						
Vanadium	2270.0	2342.74	103.2						
Zinc	2270.0	2286.87	100.7						

Lab Name:	Spectrum Analytical, Inc.	Contract:	212440
Lab Code:	MITKEM	Case No.:	
		SAS No.:	
		SDG No.:	SL1323
Solid LCS Source:			LCS(D) ID:
Aqueous LCS Source:			LCS-66751

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Mercury	4.6	4.88	106.1						

U.S. EPA - CLP
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LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 212440
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1323
 Solid LCS Source: _____ LCS(D) ID: _____
 Aqueous LCS Source: _____ LCSD-66741

Analyte	Aqueous (ug/L)			Solid (mg/Kg)					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	9100.0	8936.03	98.2						
Antimony	455.0	486.68	107.0						
Arsenic	455.0	472.22	103.8						
Barium	9100.0	9314.64	102.4						
Beryllium	227.0	231.10	101.8						
Cadmium	227.0	229.01	100.9						
Calcium	22700.0	22201.66	97.8						
Chromium	910.0	917.66	100.8						
Cobalt	2270.0	2302.98	101.5						
Copper	1130.0	1132.17	100.2						
Iron	4550.0	4597.74	101.0						
Lead	455.0	462.70	101.7						
Magnesium	22700.0	22946.47	101.1						
Manganese	2270.0	2302.82	101.4						
Nickel	2270.0	2304.99	101.5						
Potassium	22700.0	22751.42	100.2						
Selenium	455.0	465.80	102.4						
Silver	1130.0	1186.49	105.0						
Sodium	22700.0	22847.36	100.6						
Thallium	455.0	430.00	94.5						
Vanadium	2270.0	2295.82	101.1						
Zinc	2270.0	2258.60	99.5						

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 212440Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1323Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L**MB-66751****FIMS2_120618A**

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	06/18/12 12:51	C	06/18/12 13:09	C		C		C	M
Mercury	0.028	U	0.028	U	0.028	U			0.028	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 212440

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1323

Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

MB-66741

OPTIMA3_120618A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)				Preparation Blank		M
		C	06/18/12 8:30	C	06/18/12 9:04	C		C	
Antimony	9.3	U	9.3	U	9.3	U	9.300	U	P
Arsenic	4.3	U	4.3	U	4.3	U	4.300	U	P
Barium	1.1	U	1.2	B	1.1	B	1.100	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.260	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.890	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.000	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.640	U	P
Cobalt	0.7	U	0.7	U	0.7	U	0.670	U	P
Copper	3.6	U	3.6	U	3.6	U	3.600	U	P
Iron	31.0	U	31.0	U	31.0	U	31.000	U	P
Lead	4.2	U	4.2	U	4.2	U	4.200	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.000	U	P
Nickel	0.9	U	0.8	U	0.8	U	0.850	U	P
Potassium	76.0	U	-94.7	B	-228.1	B	76.000	U	P
Selenium	12.0	U	14.2	B	12.0	U	14.814	B	P
Silver	6.9	U	6.9	U	6.9	U	6.900	U	P
Sodium	29.0	U	-38.2	B	-30.1	B	29.000	U	P
Thallium	6.2	U	6.2	U	6.2	U	6.200	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.900	U	P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 212440Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1323

Preparation Blank Matrix (soil/water): _____ Method Blank ID: _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

OPTIMA3_120618A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	06/18/12 9:59	C		C		C		C	
Calcium			110.0	U							P
Iron			31.0	U							P
Magnesium			76.0	U							P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 212440Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1323Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L**MB-66741****OPTIMA3_120618B**

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)				Preparation Blank		
		C	06/18/12 10:43	C	06/18/12 11:11	C		C	
Aluminum	66.0	U	66.0	U	66.0	U	66.000	U	P

Report Date:
11-Jun-12 13:54



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

LaBella Associates
300 State Street, Suite 201
Rochester, NY 14614

Work Order: L1187
Project : LaBella Stand By
Project #: 3750 MONROE AVE.

Attn: Dan Noll

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
L1187-01	GP-13	Aqueous	30-May-12 14:00	31-May-12 09:00
L1187-02	GP-15	Aqueous	30-May-12 16:25	31-May-12 09:00
L1187-03	TRIP BLANK	Aqueous	30-May-12 00:00	31-May-12 09:00
L1187-04	GP-11 11'-12'	Soil	30-May-12 09:00	31-May-12 09:00
L1187-05	GP-14 10'-12'	Soil	30-May-12 13:30	31-May-12 09:00
L1187-06	GP-16 9'-11'	Soil	30-May-12 16:00	31-May-12 09:00

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 sample(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAP or USEPA CLP requirements have been met.

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
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Data Summary Pack ***

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 3750 Monroe Ave.

SDG : L1187

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
GP-13	L1187-01	SW8260_W				
GP-15	L1187-02	SW8260_W				
TRIP BLANK	L1187-03	SW8260_W				
GP-11 11'-12'	L1187-04	SW8260_LOW_S				
GP-11 11'-12'	L1187-04	SW8260_MED_S				
GP-14 10'-12'	L1187-05	SW8260_LOW_S				
GP-14 10'-12'	L1187-05	SW8260_MED_S				
GP-16 9'-11'	L1187-06	SW8260_LOW_S				
GP-16 9'-11'	L1187-06	SW8260_MED_S				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 3750 Monroe Ave.

SDG : L1187

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_LOW_S					
L1187-04A	SL	5/30/2012	5/31/2012	NA	6/4/2012
L1187-05A	SL	5/30/2012	5/31/2012	NA	6/4/2012
L1187-06A	SL	5/30/2012	5/31/2012	NA	6/4/2012
SW8260_MED_S					
L1187-04A	SL	5/30/2012	5/31/2012	6/5/2012	6/5/2012
L1187-05A	SL	5/30/2012	5/31/2012	6/5/2012	6/5/2012
L1187-06A	SL	5/30/2012	5/31/2012	6/5/2012	6/5/2012
SW8260_W					
L1187-01A	AQ	5/30/2012	5/31/2012	NA	5/31/2012
L1187-02A	AQ	5/30/2012	5/31/2012	NA	5/31/2012
L1187-03A	AQ	5/30/2012	5/31/2012	NA	5/31/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

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

Project Name : LaBella Stand By -- 3750 Monroe Ave.

SDG : L1187

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_LOW_S					
L1187-04A	SL	SW8260_LOW_S	NA	LOW	1
L1187-05A	SL	SW8260_LOW_S	NA	LOW	1
L1187-06A	SL	SW8260_LOW_S	NA	LOW	1
SW8260_MED_S					
L1187-04A	SL	SW8260_MED_S	Methanol	MED	1
L1187-05A	SL	SW8260_MED_S	Methanol	MED	1
L1187-06A	SL	SW8260_MED_S	Methanol	MED	1
SW8260_W					
L1187-01A	AQ	SW8260_W	NA	LOW	1
L1187-02A	AQ	SW8260_W	NA	LOW	1
L1187-03A	AQ	SW8260_W	NA	LOW	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1187

Client ID: LABELLA

Project: LaBella Stand By

WO Name: LaBella Stand By

Location: LABELLA_STANDBY_CONTRACT, 3750 MONROE AVE.

Case:

SDG:

PO: 212440

HC Due: 06/14/12

Fax Due: 06/05/12

Fax Report: ☒

Report Level: ASP-B

Special Program:

EDD: ENVIROINSITE_1

EQUIIS_4_NYSDEC

Comments: use this project for between 11-50 samples, no RUSH surcharge base on lab capacity, no charge for MS/MSD or a batch of 7 or more samples, no charge for TB. no hard copy

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1187-01A	GP-13	05/30/2012 14:00	05/31/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1187-02A	GP-15	05/30/2012 16:25	05/31/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1187-03A	TRIP BLANK	05/30/2012 00:00	05/31/2012	Aqueous	SW8260_W	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1187-04A	GP-11 11'-12'	05/30/2012 09:00	05/31/2012	Soil	PMoist	/					VOA
L1187-04A	GP-11 11'-12'	05/30/2012 09:00	05/31/2012	Soil	SW8260_LOW_S	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1187-04A	GP-11 11'-12'	05/30/2012 09:00	05/31/2012	Soil	SW8260_MED_S	/ 2CVE+special+STARS_VOC+TICs for Cat B		Y		Y	VOA
L1187-05A	GP-14 10'-12'	05/30/2012 13:30	05/31/2012	Soil	PMoist	/					VOA
L1187-05A	GP-14 10'-12'	05/30/2012 13:30	05/31/2012	Soil	SW8260_LOW_S	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1187-05A	GP-14 10'-12'	05/30/2012 13:30	05/31/2012	Soil	SW8260_MED_S	/ 2CVE+special+STARS_VOC+TICs for Cat B		Y		Y	VOA
L1187-06A	GP-16 9'-11'	05/30/2012 16:00	05/31/2012	Soil	PMoist	/					VOA
L1187-06A	GP-16 9'-11'	05/30/2012 16:00	05/31/2012	Soil	SW8260_LOW_S	/ 2CVE+special+STARS_VOC+TICs for Cat B				Y	VOA
L1187-06A	GP-16 9'-11'	05/30/2012 16:00	05/31/2012	Soil	SW8260_MED_S	/ 2CVE+special+STARS_VOC+TICs for Cat B		Y		Y	VOA

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

HT = Test logged in but has been placed on hold



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Volatiles ***

REPORT NARRATIVE

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

Client : LaBella Associates

Project: LaBella Stand By

Laboratory Workorder / SDG #: L1187

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

Aqueous Samples were prepared following procedures in laboratory test code: SW5030
Soil Samples were prepared following procedures in laboratory test code: SW5035
Soil Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V6
Instrument Type: GCMS-VOA
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

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

LCS-66534 in batch 66534, Percent Recovery is outside QC Limits, recovery is below criteria for 2-Chloroethyl vinyl ether at 69% with criteria of (70-130).

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

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

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

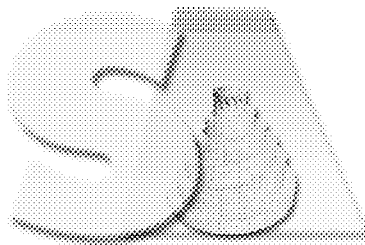
No other unusual occurrences were noted during sample analysis.

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.

A handwritten signature in black ink, appearing to be 'J. H. P.', is written over a horizontal line.

Signed:_____

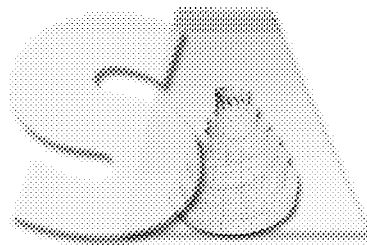
Date:_____6/11/2012_____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-13

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1187-01A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7393.D
Level: (TRACE/LOW/MED) LOW	Date Received: 05/31/2012
% Moisture: not dec.	Date Analyzed: 05/31/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
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
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	0.55	J
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-13

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1187-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7393.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/31/2012

% Moisture: not dec. Date Analyzed: 05/31/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-13

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1187-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7393.D

Level: (TRACE or LOW/MED) LOW Date Received: 05/31/2012

% Moisture: not dec. _____ Date Analyzed: 05/31/2012

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-15

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1187-02A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7394.D
Level: (TRACE/LOW/MED) LOW	Date Received: 05/31/2012
% Moisture: not dec.	Date Analyzed: 05/31/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
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
67-66-3	Chloroform	0.94	J
71-55-6	1,1,1-Trichloroethane	0.71	J
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	20	
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	1.2	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-15

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1187-02A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7394.D
Level: (TRACE/LOW/MED) LOW	Date Received: 05/31/2012
% Moisture: not dec.	Date Analyzed: 05/31/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	2.5	J
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-15

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1187-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7394.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/31/2012
% Moisture: not dec. Date Analyzed: 05/31/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: L1187-03A
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7392.D
Level: (TRACE/LOW/MED) LOW	Date Received: 05/31/2012
% Moisture: not dec.	Date Analyzed: 05/31/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1187-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7392.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/31/2012

% Moisture: not dec. Date Analyzed: 05/31/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L1187-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7392.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/31/2012
% Moisture: not dec. Date Analyzed: 05/31/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GP-11 11'-12'ME

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1187-04A
Sample wt/vol: 5.10 (g/mL) G	Lab File ID: V6I7508.D
Level: (TRACE/LOW/MED) MED	Date Received: 05/31/2012
% Moisture: not dec. 17	Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)	Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	350	U
75-01-4	Vinyl chloride	350	U
74-83-9	Bromomethane	350	U
75-00-3	Chloroethane	350	U
75-69-4	Trichlorofluoromethane	350	U
75-35-4	1,1-Dichloroethene	350	U
67-64-1	Acetone	350	U
75-15-0	Carbon disulfide	350	U
75-09-2	Methylene chloride	83	BBJ
156-60-5	trans-1,2-Dichloroethene	350	U
1634-04-4	Methyl tert-butyl ether	350	U
75-34-3	1,1-Dichloroethane	350	U
108-05-4	Vinyl acetate	350	U
78-93-3	2-Butanone	350	U
156-59-2	cis-1,2-Dichloroethene	350	U
67-66-3	Chloroform	350	U
71-55-6	1,1,1-Trichloroethane	350	U
56-23-5	Carbon tetrachloride	350	U
107-06-2	1,2-Dichloroethane	350	U
71-43-2	Benzene	350	U
79-01-6	Trichloroethene	460	BB
78-87-5	1,2-Dichloropropane	350	U
75-27-4	Bromodichloromethane	350	U
10061-01-5	cis-1,3-Dichloropropene	350	U
108-10-1	4-Methyl-2-pentanone	350	U
108-88-3	Toluene	350	U
10061-02-6	trans-1,3-Dichloropropene	350	U
79-00-5	1,1,2-Trichloroethane	350	U
127-18-4	Tetrachloroethene	350	U
591-78-6	2-Hexanone	350	U
124-48-1	Dibromochloromethane	350	U
108-90-7	Chlorobenzene	350	U
100-41-4	Ethylbenzene	350	U
179601-23-1	m,p-Xylene	350	U
95-47-6	o-Xylene	350	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GP-11 11'-12'ME

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1187-04A
Sample wt/vol: 5.10 (g/mL) G	Lab File ID: V6I7508.D
Level: (TRACE/LOW/MED) MED	Date Received: 05/31/2012
% Moisture: not dec. 17	Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)	Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	350	U
100-42-5	Styrene	350	U
75-25-2	Bromoform	350	U
98-82-8	Isopropylbenzene	350	U
79-34-5	1,1,2,2-Tetrachloroethane	350	U
103-65-1	n-Propylbenzene	350	U
108-67-8	1,3,5-Trimethylbenzene	350	U
98-06-6	tert-Butylbenzene	350	U
95-63-6	1,2,4-Trimethylbenzene	350	U
135-98-8	sec-Butylbenzene	350	U
99-87-6	4-Isopropyltoluene	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
104-51-8	n-Butylbenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
91-20-3	Naphthalene	350	U
110-75-8	2-Chloroethyl vinyl ether	350	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-11 11'-12'ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-04A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6I7508.D

Level: (TRACE or LOW/MED) MED Date Received: 05/31/2012

% Moisture: not dec. 17 Date Analyzed: 06/05/2012

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

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-11 11'-12'

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1187-04A
Sample wt/vol: 5.70 (g/mL) G	Lab File ID: V8B2094.D
Level: (TRACE/LOW/MED) LOW	Date Received: 05/31/2012
% Moisture: not dec. 17	Date Analyzed: 06/04/2012
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
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	4.4	J
75-15-0	Carbon disulfide	2.2	J
75-09-2	Methylene chloride	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
108-05-4	Vinyl acetate	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	17	
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	360	E
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U
179601-23-1	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-11 11'-12'

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-04A

Sample wt/vol: 5.70 (g/mL) G Lab File ID: V8B2094.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/31/2012

% Moisture: not dec. 17 Date Analyzed: 06/04/2012

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

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
99-87-6	4-Isopropyltoluene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	1.2	J
91-20-3	Naphthalene	5.3	U
110-75-8	2-Chloroethyl vinyl ether	5.3	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-11 11'-12'

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-04A

Sample wt/vol: 5.70 (g/mL) G Lab File ID: V8B2094.D

Level: (TRACE or LOW/MED) LOW Date Received: 05/31/2012

% Moisture: not dec. 17 Date Analyzed: 06/04/2012

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

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

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	7446-09-5	Sulfur dioxide	1.757	14	NJ

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GP-14 10'-12'ME

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1187-05A
Sample wt/vol: 5.20 (g/mL) G	Lab File ID: V6I7509.D
Level: (TRACE/LOW/MED) MED	Date Received: 05/31/2012
% Moisture: not dec. 16	Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)	Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	330	U
75-01-4	Vinyl chloride	330	U
74-83-9	Bromomethane	330	U
75-00-3	Chloroethane	330	U
75-69-4	Trichlorofluoromethane	330	U
75-35-4	1,1-Dichloroethene	330	U
67-64-1	Acetone	330	U
75-15-0	Carbon disulfide	330	U
75-09-2	Methylene chloride	73	BBJ
156-60-5	trans-1,2-Dichloroethene	330	U
1634-04-4	Methyl tert-butyl ether	330	U
75-34-3	1,1-Dichloroethane	330	U
108-05-4	Vinyl acetate	330	U
78-93-3	2-Butanone	330	U
156-59-2	cis-1,2-Dichloroethene	330	U
67-66-3	Chloroform	330	U
71-55-6	1,1,1-Trichloroethane	330	U
56-23-5	Carbon tetrachloride	330	U
107-06-2	1,2-Dichloroethane	330	U
71-43-2	Benzene	330	U
79-01-6	Trichloroethene	940	BB
78-87-5	1,2-Dichloropropane	330	U
75-27-4	Bromodichloromethane	330	U
10061-01-5	cis-1,3-Dichloropropene	330	U
108-10-1	4-Methyl-2-pentanone	330	U
108-88-3	Toluene	330	U
10061-02-6	trans-1,3-Dichloropropene	330	U
79-00-5	1,1,2-Trichloroethane	330	U
127-18-4	Tetrachloroethene	330	U
591-78-6	2-Hexanone	330	U
124-48-1	Dibromochloromethane	330	U
108-90-7	Chlorobenzene	330	U
100-41-4	Ethylbenzene	330	U
179601-23-1	m,p-Xylene	330	U
95-47-6	o-Xylene	330	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GP-14 10'-12'ME

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1187-05A
Sample wt/vol: 5.20 (g/mL) G	Lab File ID: V6I7509.D
Level: (TRACE/LOW/MED) MED	Date Received: 05/31/2012
% Moisture: not dec. 16	Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)	Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
1330-20-7	Xylene (Total)	330	U
100-42-5	Styrene	330	U
75-25-2	Bromoform	330	U
98-82-8	Isopropylbenzene	330	U
79-34-5	1,1,2,2-Tetrachloroethane	330	U
103-65-1	n-Propylbenzene	330	U
108-67-8	1,3,5-Trimethylbenzene	330	U
98-06-6	tert-Butylbenzene	330	U
95-63-6	1,2,4-Trimethylbenzene	330	U
135-98-8	sec-Butylbenzene	330	U
99-87-6	4-Isopropyltoluene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
104-51-8	n-Butylbenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
91-20-3	Naphthalene	330	U
110-75-8	2-Chloroethyl vinyl ether	330	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-14 10'-12'ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-05A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V6I7509.D

Level: (TRACE or LOW/MED) MED Date Received: 05/31/2012

% Moisture: not dec. 16 Date Analyzed: 06/05/2012

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

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-14 10'-12'

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1187-05A
Sample wt/vol: 5.60 (g/mL) G	Lab File ID: V8B2095.D
Level: (TRACE/LOW/MED) LOW	Date Received: 05/31/2012
% Moisture: not dec. 16	Date Analyzed: 06/04/2012
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
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	6.1	
67-64-1	Acetone	5.3	U
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	2.4	J
108-05-4	Vinyl acetate	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	44	
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	2.4	J
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	1300	E
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U
179601-23-1	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-14 10'-12'

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-05A
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8B2095.D
Level: (TRACE/LOW/MED) LOW Date Received: 05/31/2012
% Moisture: not dec. 16 Date Analyzed: 06/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
99-87-6	4-Isopropyltoluene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
91-20-3	Naphthalene	5.3	U
110-75-8	2-Chloroethyl vinyl ether	5.3	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-14 10'-12'

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-05A
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8B2095.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/31/2012
% Moisture: not dec. 16 Date Analyzed: 06/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-16 9'-11'ME

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1187-06A
Sample wt/vol: 5.20 (g/mL) G	Lab File ID: V6I7510.D
Level: (TRACE/LOW/MED) MED	Date Received: 05/31/2012
% Moisture: not dec. 19	Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)	Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	350	U
75-01-4	Vinyl chloride	350	U
74-83-9	Bromomethane	350	U
75-00-3	Chloroethane	350	U
75-69-4	Trichlorofluoromethane	350	U
75-35-4	1,1-Dichloroethene	350	U
67-64-1	Acetone	350	U
75-15-0	Carbon disulfide	350	U
75-09-2	Methylene chloride	73	BBJ
156-60-5	trans-1,2-Dichloroethene	350	U
1634-04-4	Methyl tert-butyl ether	350	U
75-34-3	1,1-Dichloroethane	350	U
108-05-4	Vinyl acetate	350	U
78-93-3	2-Butanone	350	U
156-59-2	cis-1,2-Dichloroethene	350	U
67-66-3	Chloroform	350	U
71-55-6	1,1,1-Trichloroethane	350	U
56-23-5	Carbon tetrachloride	350	U
107-06-2	1,2-Dichloroethane	350	U
71-43-2	Benzene	350	U
79-01-6	Trichloroethene	1800	BB
78-87-5	1,2-Dichloropropane	350	U
75-27-4	Bromodichloromethane	350	U
10061-01-5	cis-1,3-Dichloropropene	350	U
108-10-1	4-Methyl-2-pentanone	350	U
108-88-3	Toluene	350	U
10061-02-6	trans-1,3-Dichloropropene	350	U
79-00-5	1,1,2-Trichloroethane	350	U
127-18-4	Tetrachloroethene	350	U
591-78-6	2-Hexanone	350	U
124-48-1	Dibromochloromethane	350	U
108-90-7	Chlorobenzene	350	U
100-41-4	Ethylbenzene	350	U
179601-23-1	m,p-Xylene	350	U
95-47-6	o-Xylene	350	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GP-16 9'-11'ME

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: L1187-06A
Sample wt/vol: 5.20 (g/mL) G	Lab File ID: V6I7510.D
Level: (TRACE/LOW/MED) MED	Date Received: 05/31/2012
% Moisture: not dec. 19	Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)	Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	350	U
100-42-5	Styrene	350	U
75-25-2	Bromoform	350	U
98-82-8	Isopropylbenzene	350	U
79-34-5	1,1,2,2-Tetrachloroethane	350	U
103-65-1	n-Propylbenzene	350	U
108-67-8	1,3,5-Trimethylbenzene	350	U
98-06-6	tert-Butylbenzene	350	U
95-63-6	1,2,4-Trimethylbenzene	350	U
135-98-8	sec-Butylbenzene	350	U
99-87-6	4-Isopropyltoluene	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
104-51-8	n-Butylbenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
91-20-3	Naphthalene	350	U
110-75-8	2-Chloroethyl vinyl ether	350	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-16 9'-11'ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-06A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V6I7510.D

Level: (TRACE or LOW/MED) MED Date Received: 05/31/2012

% Moisture: not dec. 19 Date Analyzed: 06/05/2012

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

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-16 9'-11'

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-06A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8B2096.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/31/2012

% Moisture: not dec. 19 Date Analyzed: 06/04/2012

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) <u>UG/KG</u>	Q
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	3.8	J
67-64-1	Acetone	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	1.5	J
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	3.6	J
67-66-3	Chloroform	6.0	U
71-55-6	1,1,1-Trichloroethane	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	1400	E
78-87-5	1,2-Dichloropropane	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
127-18-4	Tetrachloroethene	6.0	U
591-78-6	2-Hexanone	6.0	U
124-48-1	Dibromochloromethane	6.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-16 9'-11'

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-06A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8B2096.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/31/2012

% Moisture: not dec. 19 Date Analyzed: 06/04/2012

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

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	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
103-65-1	n-Propylbenzene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	6.0	U
110-75-8	2-Chloroethyl vinyl ether	6.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GP-16 9'-11'

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L1187-06A
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8B2096.D
Level: (TRACE or LOW/MED) LOW Date Received: 05/31/2012
% Moisture: not dec. 19 Date Analyzed: 06/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66466

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7391.D

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

% Moisture: not dec. Date Analyzed: 05/31/2012

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

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

Purge Volume: 5.0 (mL)

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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66466

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7391.D

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

% Moisture: not dec. Date Analyzed: 05/31/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-66466

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7391.D

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

% Moisture: not dec. _____ Date Analyzed: 05/31/2012

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66514

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66514

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B2092.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/04/2012

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
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
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
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
108-90-7	Chlorobenzene	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

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66514

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66514

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B2092.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/04/2012

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

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	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
91-20-3	Naphthalene	5.0	U
110-75-8	2-Chloroethyl vinyl ether	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-66514

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66514
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B2092.D
Level: (TRACE or LOW/MED) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 06/04/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66534

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: MB-66534
Sample wt/vol: 5.00 (g/mL) G	Lab File ID: V6I7505.D
Level: (TRACE/LOW/MED) MED	Date Received: _____
% Moisture: not dec. 0.0	Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)	Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U
75-15-0	Carbon disulfide	250	U
75-09-2	Methylene chloride	53	J
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
108-05-4	Vinyl acetate	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	52	J
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
179601-23-1	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-66534

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66534

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V6I7505.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/05/2012

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

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
103-65-1	n-Propylbenzene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
104-51-8	n-Butylbenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
91-20-3	Naphthalene	250	U
110-75-8	2-Chloroethyl vinyl ether	250	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-66534

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-66534
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V6I7505.D
Level: (TRACE or LOW/MED) MED Date Received: _____
% Moisture: not dec. Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66466

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) WATER	Lab Sample ID: LCS-66466
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID: V6I7387.D
Level: (TRACE/LOW/MED) LOW	Date Received: _____
% Moisture: not dec.	Date Analyzed: 05/31/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	45	
75-01-4	Vinyl chloride	44	
74-83-9	Bromomethane	48	
75-00-3	Chloroethane	48	
75-69-4	Trichlorofluoromethane	47	
75-35-4	1,1-Dichloroethene	47	
67-64-1	Acetone	51	
75-15-0	Carbon disulfide	48	
75-09-2	Methylene chloride	50	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	52	
75-34-3	1,1-Dichloroethane	49	
108-05-4	Vinyl acetate	55	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	49	
67-66-3	Chloroform	49	
71-55-6	1,1,1-Trichloroethane	48	
56-23-5	Carbon tetrachloride	48	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	49	
79-01-6	Trichloroethene	48	
78-87-5	1,2-Dichloropropane	49	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	53	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	50	
127-18-4	Tetrachloroethene	37	
591-78-6	2-Hexanone	52	
124-48-1	Dibromochloromethane	50	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	48	
179601-23-1	m,p-Xylene	98	
95-47-6	o-Xylene	48	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-66466
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7387.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 05/31/2012
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	50	
75-25-2	Bromoform	50	
98-82-8	Isopropylbenzene	49	
79-34-5	1,1,2,2-Tetrachloroethane	39	
103-65-1	n-Propylbenzene	49	
108-67-8	1,3,5-Trimethylbenzene	49	
98-06-6	tert-Butylbenzene	54	
95-63-6	1,2,4-Trimethylbenzene	49	
135-98-8	sec-Butylbenzene	49	
99-87-6	4-Isopropyltoluene	49	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	49	
104-51-8	n-Butylbenzene	50	
95-50-1	1,2-Dichlorobenzene	48	
91-20-3	Naphthalene	46	
110-75-8	2-Chloroethyl vinyl ether	47	

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66514

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-66514

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B2088.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/04/2012

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
74-87-3	Chloromethane	50	
75-01-4	Vinyl chloride	51	
74-83-9	Bromomethane	47	
75-00-3	Chloroethane	46	
75-69-4	Trichlorofluoromethane	48	
75-35-4	1,1-Dichloroethene	48	
67-64-1	Acetone	44	
75-15-0	Carbon disulfide	47	
75-09-2	Methylene chloride	46	
156-60-5	trans-1,2-Dichloroethene	49	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	50	
108-05-4	Vinyl acetate	53	
78-93-3	2-Butanone	51	
156-59-2	cis-1,2-Dichloroethene	49	
67-66-3	Chloroform	49	
71-55-6	1,1,1-Trichloroethane	49	
56-23-5	Carbon tetrachloride	49	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	48	
78-87-5	1,2-Dichloropropane	50	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	54	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	50	
79-00-5	1,1,2-Trichloroethane	48	
127-18-4	Tetrachloroethene	48	
591-78-6	2-Hexanone	54	
124-48-1	Dibromochloromethane	49	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	51	
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	52	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCS-66514

Lab Name: <u>SPECTRUM ANALYTICAL, INC.</u>	Contract: _____
Lab Code: <u>MITKEM</u> Case No.: <u>L1187</u>	Mod. Ref No.: _____ SDG No.: <u>SL1187</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>LCS-66514</u>
Sample wt/vol: <u>5.00</u> (g/mL) <u>G</u>	Lab File ID: <u>V8B2088.D</u>
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: _____
% Moisture: not dec. <u>0.0</u>	Date Analyzed: <u>06/04/2012</u>
GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
Purge Volume: <u>10.0</u> (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	53	
75-25-2	Bromoform	51	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	50	
103-65-1	n-Propylbenzene	50	
108-67-8	1,3,5-Trimethylbenzene	50	
98-06-6	tert-Butylbenzene	52	
95-63-6	1,2,4-Trimethylbenzene	50	
135-98-8	sec-Butylbenzene	50	
99-87-6	4-Isopropyltoluene	51	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	49	
104-51-8	n-Butylbenzene	51	
95-50-1	1,2-Dichlorobenzene	49	
91-20-3	Naphthalene	51	
110-75-8	2-Chloroethyl vinyl ether	64	

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66534

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: LCS-66534
Sample wt/vol: 5.00 (g/mL) G	Lab File ID: V6I7502.D
Level: (TRACE/LOW/MED) MED	Date Received:
% Moisture: not dec. 0.0	Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)	Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	2500	
75-01-4	Vinyl chloride	2400	
74-83-9	Bromomethane	2300	
75-00-3	Chloroethane	2400	
75-69-4	Trichlorofluoromethane	2700	
75-35-4	1,1-Dichloroethene	2700	
67-64-1	Acetone	3100	
75-15-0	Carbon disulfide	2500	
75-09-2	Methylene chloride	2500	BB
156-60-5	trans-1,2-Dichloroethene	2600	
1634-04-4	Methyl tert-butyl ether	2800	
75-34-3	1,1-Dichloroethane	2600	
108-05-4	Vinyl acetate	2900	
78-93-3	2-Butanone	3000	
156-59-2	cis-1,2-Dichloroethene	2700	
67-66-3	Chloroform	2600	
71-55-6	1,1,1-Trichloroethane	2600	
56-23-5	Carbon tetrachloride	2600	
107-06-2	1,2-Dichloroethane	2700	
71-43-2	Benzene	2600	
79-01-6	Trichloroethene	2700	BB
78-87-5	1,2-Dichloropropane	2600	
75-27-4	Bromodichloromethane	2600	
10061-01-5	cis-1,3-Dichloropropene	2700	
108-10-1	4-Methyl-2-pentanone	3200	
108-88-3	Toluene	2600	
10061-02-6	trans-1,3-Dichloropropene	2700	
79-00-5	1,1,2-Trichloroethane	2800	
127-18-4	Tetrachloroethene	2000	
591-78-6	2-Hexanone	3100	
124-48-1	Dibromochloromethane	2600	
108-90-7	Chlorobenzene	2500	
100-41-4	Ethylbenzene	2500	
179601-23-1	m,p-Xylene	5000	
95-47-6	o-Xylene	2500	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-66534

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract: _____
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: _____ SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: LCS-66534
Sample wt/vol: 5.00 (g/mL) G	Lab File ID: V6I7502.D
Level: (TRACE/LOW/MED) MED	Date Received: _____
% Moisture: not dec. 0.0	Date Analyzed: 06/05/2012
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)	Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	Xylene (Total)	7500	
100-42-5	Styrene	2500	
75-25-2	Bromoform	2700	
98-82-8	Isopropylbenzene	2500	
79-34-5	1,1,2,2-Tetrachloroethane	2100	
103-65-1	n-Propylbenzene	2500	
108-67-8	1,3,5-Trimethylbenzene	2500	
98-06-6	tert-Butylbenzene	2700	
95-63-6	1,2,4-Trimethylbenzene	2500	
135-98-8	sec-Butylbenzene	2500	
99-87-6	4-Isopropyltoluene	2500	
541-73-1	1,3-Dichlorobenzene	2400	
106-46-7	1,4-Dichlorobenzene	2400	
104-51-8	n-Butylbenzene	2400	
95-50-1	1,2-Dichlorobenzene	2400	
91-20-3	Naphthalene	2400	
110-75-8	2-Chloroethyl vinyl ether	1700	

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66466

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7388.D

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

% Moisture: not dec. Date Analyzed: 05/31/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	39	
75-01-4	Vinyl chloride	38	
74-83-9	Bromomethane	41	
75-00-3	Chloroethane	41	
75-69-4	Trichlorofluoromethane	41	
75-35-4	1,1-Dichloroethene	41	
67-64-1	Acetone	51	
75-15-0	Carbon disulfide	43	
75-09-2	Methylene chloride	43	
156-60-5	trans-1,2-Dichloroethene	43	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	43	
108-05-4	Vinyl acetate	49	
78-93-3	2-Butanone	51	
156-59-2	cis-1,2-Dichloroethene	44	
67-66-3	Chloroform	44	
71-55-6	1,1,1-Trichloroethane	43	
56-23-5	Carbon tetrachloride	43	
107-06-2	1,2-Dichloroethane	46	
71-43-2	Benzene	44	
79-01-6	Trichloroethene	43	
78-87-5	1,2-Dichloropropane	45	
75-27-4	Bromodichloromethane	45	
10061-01-5	cis-1,3-Dichloropropene	46	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	44	
10061-02-6	trans-1,3-Dichloropropene	47	
79-00-5	1,1,2-Trichloroethane	47	
127-18-4	Tetrachloroethene	39	
591-78-6	2-Hexanone	51	
124-48-1	Dibromochloromethane	46	
108-90-7	Chlorobenzene	44	
100-41-4	Ethylbenzene	43	
179601-23-1	m,p-Xylene	89	
95-47-6	o-Xylene	44	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-66466

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I7388.D

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

% Moisture: not dec. Date Analyzed: 05/31/2012

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

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
1330-20-7	Xylene (Total)	130	
100-42-5	Styrene	45	
75-25-2	Bromoform	48	
98-82-8	Isopropylbenzene	45	
79-34-5	1,1,2,2-Tetrachloroethane	37	
103-65-1	n-Propylbenzene	44	
108-67-8	1,3,5-Trimethylbenzene	46	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	45	
135-98-8	sec-Butylbenzene	46	
99-87-6	4-Isopropyltoluene	46	
541-73-1	1,3-Dichlorobenzene	45	
106-46-7	1,4-Dichlorobenzene	45	
104-51-8	n-Butylbenzene	47	
95-50-1	1,2-Dichlorobenzene	45	
91-20-3	Naphthalene	46	
110-75-8	2-Chloroethyl vinyl ether	45	

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66514

Lab Name: SPECTRUM ANALYTICAL, INC.	Contract:
Lab Code: MITKEM Case No.: L1187	Mod. Ref No.: SDG No.: SL1187
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: LCSD-66514
Sample wt/vol: 5.00 (g/mL) G	Lab File ID: V8B2089.D
Level: (TRACE/LOW/MED) LOW	Date Received:
% Moisture: not dec. 0.0	Date Analyzed: 06/04/2012
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
74-87-3	Chloromethane	54	
75-01-4	Vinyl chloride	56	
74-83-9	Bromomethane	51	
75-00-3	Chloroethane	55	
75-69-4	Trichlorofluoromethane	50	
75-35-4	1,1-Dichloroethene	51	
67-64-1	Acetone	47	
75-15-0	Carbon disulfide	50	
75-09-2	Methylene chloride	49	
156-60-5	trans-1,2-Dichloroethene	52	
1634-04-4	Methyl tert-butyl ether	53	
75-34-3	1,1-Dichloroethane	52	
108-05-4	Vinyl acetate	55	
78-93-3	2-Butanone	54	
156-59-2	cis-1,2-Dichloroethene	52	
67-66-3	Chloroform	52	
71-55-6	1,1,1-Trichloroethane	51	
56-23-5	Carbon tetrachloride	51	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	52	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	52	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	55	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	53	
79-00-5	1,1,2-Trichloroethane	51	
127-18-4	Tetrachloroethene	51	
591-78-6	2-Hexanone	56	
124-48-1	Dibromochloromethane	53	
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	53	
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	53	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-66514

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-66514

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B2089.D

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

% Moisture: not dec. 0.0 Date Analyzed: 06/04/2012

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) <u>UG/KG</u>	Q
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	55	
75-25-2	Bromoform	54	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	51	
103-65-1	n-Propylbenzene	51	
108-67-8	1,3,5-Trimethylbenzene	52	
98-06-6	tert-Butylbenzene	53	
95-63-6	1,2,4-Trimethylbenzene	52	
135-98-8	sec-Butylbenzene	51	
99-87-6	4-Isopropyltoluene	52	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	50	
104-51-8	n-Butylbenzene	52	
95-50-1	1,2-Dichlorobenzene	51	
91-20-3	Naphthalene	54	
110-75-8	2-Chloroethyl vinyl ether	65	

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-66466	102	100	99	98				0
02	LCSD-66466	99	97	99	99				0
03	MB-66466	100	100	101	91				0
04	TRIP BLANK	100	100	102	93				0
05	GP-13	100	100	102	94				0
06	GP-15	102	101	101	92				0

VDMC1 (DBFM) Dibromofluoromethane
 VDMC2 (DCE) = 1,2-Dichloroethane-d4
 VDMC3 (TOL) = Toluene-d8
 VDMC4 (BFB) = Bromofluorobenzene

QC LIMITS
 (85-115)
 (70-120)
 (85-120)
 (75-120)

Column to be used to flag recovery values
 * Values outside of contract required QC limits

som111.10.27.A

2D - FORM II VOA-4
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-66514	98	102	104	103				0
02	LCSD-66514	99	100	101	99				0
03	MB-66514	97	100	102	99				0
04	GP-11 11' -12'	98	100	103	98				0
05	GP-14 10' -12'	98	97	103	98				0
06	GP-16 9' -11'	87	93	103	99				0

VDMC1 (DBFM) Dibromofluoromethane
 VDMC2 (DCE) = 1,2-Dichloroethane-d4
 VDMC3 (TOL) = Toluene-d8
 VDMC4 (BFB) = Bromofluorobenzene

QC LIMITS
 (65-132)
 (65-128)
 (85-115)
 (77-111)

Column to be used to flag recovery values
 * Values outside of contract required QC limits

som111.10.27.A

2D - FORM II VOA-4
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 Level: (LOW/MED) MED

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-66534	102	99	99	100				0
02	MB-66534	102	102	99	92				0
03	GP-11 11'-12'ME	101	103	98	96				0
04	GP-14 10'-12'ME	100	98	99	98				0
05	GP-16 9'-11'ME	100	99	98	97				0

VDMC1 (DBFM) Dibromofluoromethane
 VDMC2 (DCE) = 1,2-Dichloroethane-d4
 VDMC3 (TOL) = Toluene-d8
 VDMC4 (BFB) = Bromofluorobenzene

QC LIMITS
 (65-132)
 (65-128)
 (85-115)
 (77-111)

Column to be used to flag recovery values
 * Values outside of contract required QC limits

som111.10.27.A

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Lab Sample ID: LCS-66466 LCS Lot No.: _____
Date Extracted: 05/31/2012 Date Analyzed (1): 05/31/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Chloromethane	50.0000	0.0000	44.9922	90		40 - 125
Vinyl chloride	50.0000	0.0000	43.9710	88		50 - 145
Bromomethane	50.0000	0.0000	48.0644	96		30 - 145
Chloroethane	50.0000	0.0000	48.0060	96		60 - 135
Trichlorofluoromethane	50.0000	0.0000	46.5197	93		60 - 145
1,1-Dichloroethene	50.0000	0.0000	46.7348	93		70 - 130
Acetone	50.0000	0.0000	51.0725	102		40 - 140
Carbon disulfide	50.0000	0.0000	48.2436	96		35 - 160
Methylene chloride	50.0000	0.0000	49.5935	99		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	48.3693	97		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	51.5794	103		65 - 125
1,1-Dichloroethane	50.0000	0.0000	49.1027	98		70 - 135
Vinyl acetate	50.0000	0.0000	55.4193	111		38 - 163
2-Butanone	50.0000	0.0000	51.8945	104		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	49.1129	98		70 - 125
Chloroform	50.0000	0.0000	49.1046	98		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	48.4397	97		65 - 130
Carbon tetrachloride	50.0000	0.0000	47.7851	96		65 - 140
1,2-Dichloroethane	50.0000	0.0000	50.5405	101		70 - 130
Benzene	50.0000	0.0000	49.0702	98		80 - 120
Trichloroethene	50.0000	0.0000	47.8221	96		70 - 125
1,2-Dichloropropane	50.0000	0.0000	49.3612	99		75 - 125
Bromodichloromethane	50.0000	0.0000	50.1187	100		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	51.0433	102		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	53.2482	106		60 - 135
Toluene	50.0000	0.0000	49.5293	99		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	51.3585	103		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	50.3763	101		75 - 125
Tetrachloroethene	50.0000	0.0000	37.0349	74		45 - 150
2-Hexanone	50.0000	0.0000	52.2965	105		55 - 130
Dibromochloromethane	50.0000	0.0000	50.1190	100		60 - 135
Chlorobenzene	50.0000	0.0000	48.1552	96		80 - 120
Ethylbenzene	50.0000	0.0000	48.0390	96		75 - 125
m,p-Xylene	100.0000	0.0000	97.8669	98		75 - 130
o-Xylene	50.0000	0.0000	48.4646	97		80 - 120
Xylene (Total)	150.0000	0.0000	146.3316	98		81 - 121
Styrene	50.0000	0.0000	49.9567	100		65 - 135
Bromoform	50.0000	0.0000	50.4991	101		70 - 130
Isopropylbenzene	50.0000	0.0000	48.5918	97		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	39.3615	79		65 - 130
n-Propylbenzene	50.0000	0.0000	49.0306	98		70 - 130
1,3,5-Trimethylbenzene	50.0000	0.0000	49.2600	99		75 - 130
tert-Butylbenzene	50.0000	0.0000	53.9219	108		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	49.1935	98		75 - 130

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Lab Sample ID: LCS-66466 LCS Lot No.: _____
Date Extracted: 05/31/2012 Date Analyzed (1): 05/31/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
sec-Butylbenzene	50.0000	0.0000	49.2560	99		70 - 125
4-Isopropyltoluene	50.0000	0.0000	49.3230	99		75 - 130
1,3-Dichlorobenzene	50.0000	0.0000	48.6169	97		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	48.8066	98		75 - 125
n-Butylbenzene	50.0000	0.0000	49.6470	99		70 - 135
1,2-Dichlorobenzene	50.0000	0.0000	47.8134	96		70 - 120
Naphthalene	50.0000	0.0000	46.1369	92		55 - 140
2-Chloroethyl vinyl ether	50.0000	0.0000	47.0653	94		0 - 169

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

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS: _____

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66514

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: L1187

Mod. Ref No.:

SDG No.: SL1187

Lab Sample ID: LCS-66514

LCS Lot No.:

Date Extracted: 06/04/2012

Date Analyzed (1): 06/04/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Chloromethane	50.0000	0.0000	49.8716	100		50 - 130
Vinyl chloride	50.0000	0.0000	51.2922	103		60 - 125
Bromomethane	50.0000	0.0000	47.2275	94		30 - 160
Chloroethane	50.0000	0.0000	46.2156	92		40 - 155
Trichlorofluoromethane	50.0000	0.0000	48.4164	97		25 - 185
1,1-Dichloroethene	50.0000	0.0000	48.4081	97		65 - 135
Acetone	50.0000	0.0000	44.3807	89		20 - 160
Carbon disulfide	50.0000	0.0000	46.8541	94		45 - 160
Methylene chloride	50.0000	0.0000	45.7401	91		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	48.8574	98		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	48.3696	97		75 - 126
1,1-Dichloroethane	50.0000	0.0000	49.9634	100		75 - 125
Vinyl acetate	50.0000	0.0000	52.5512	105		65 - 138
2-Butanone	50.0000	0.0000	51.4773	103		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	48.8601	98		65 - 125
Chloroform	50.0000	0.0000	49.2210	98		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	49.1772	98		70 - 135
Carbon tetrachloride	50.0000	0.0000	48.6693	97		65 - 135
1,2-Dichloroethane	50.0000	0.0000	48.8564	98		70 - 135
Benzene	50.0000	0.0000	49.8234	100		75 - 125
Trichloroethene	50.0000	0.0000	48.3486	97		75 - 125
1,2-Dichloropropane	50.0000	0.0000	50.0138	100		70 - 120
Bromodichloromethane	50.0000	0.0000	49.0629	98		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	50.9393	102		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	53.6359	107		45 - 145
Toluene	50.0000	0.0000	49.7589	100		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	49.9401	100		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	47.8585	96		60 - 125
Tetrachloroethene	50.0000	0.0000	47.7653	96		65 - 140
2-Hexanone	50.0000	0.0000	54.1853	108		45 - 145
Dibromochloromethane	50.0000	0.0000	49.4536	99		65 - 130
Chlorobenzene	50.0000	0.0000	49.3851	99		75 - 125
Ethylbenzene	50.0000	0.0000	51.3462	103		75 - 125
m,p-Xylene	100.0000	0.0000	104.4872	104		80 - 125
o-Xylene	50.0000	0.0000	52.3539	105		75 - 125
Xylene (Total)	150.0000	0.0000	156.8411	105		83 - 125
Styrene	50.0000	0.0000	53.1170	106		75 - 125
Bromoform	50.0000	0.0000	50.6448	101		55 - 135
Isopropylbenzene	50.0000	0.0000	52.8060	106		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	50.2020	100		55 - 130
n-Propylbenzene	50.0000	0.0000	50.2380	100		65 - 135
1,3,5-Trimethylbenzene	50.0000	0.0000	50.1818	100		65 - 135
tert-Butylbenzene	50.0000	0.0000	51.7076	103		65 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	50.1531	100		65 - 135

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66514

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 Lab Sample ID: LCS-66514 LCS Lot No.: _____
 Date Extracted: 06/04/2012 Date Analyzed (1): 06/04/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
sec-Butylbenzene	50.0000	0.0000	50.1546	100		65 - 130
4-Isopropyltoluene	50.0000	0.0000	50.7976	102		75 - 135
1,3-Dichlorobenzene	50.0000	0.0000	49.3374	99		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	48.8834	98		70 - 125
n-Butylbenzene	50.0000	0.0000	51.4557	103		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	48.9997	98		75 - 120
Naphthalene	50.0000	0.0000	51.4224	103		40 - 125
2-Chloroethyl vinyl ether	50.0000	0.0000	64.2226	128		70 - 130

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

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS: _____

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66534

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Lab Sample ID: LCS-66534 LCS Lot No.: _____
Date Extracted: 06/05/2012 Date Analyzed (1): 06/05/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Chloromethane	2500.0000	0.0000	2478.0789	99		50 - 130
Vinyl chloride	2500.0000	0.0000	2388.2350	96		60 - 125
Bromomethane	2500.0000	0.0000	2254.5968	90		30 - 160
Chloroethane	2500.0000	0.0000	2420.3406	97		40 - 155
Trichlorofluoromethane	2500.0000	0.0000	2650.8432	106		25 - 185
1,1-Dichloroethene	2500.0000	0.0000	2681.9022	107		65 - 135
Acetone	2500.0000	0.0000	3052.8633	122		20 - 160
Carbon disulfide	2500.0000	0.0000	2479.4306	99		45 - 160
Methylene chloride	2500.0000	0.0000	2546.3214	102		55 - 140
trans-1,2-Dichloroethene	2500.0000	0.0000	2589.2466	104		65 - 135
Methyl tert-butyl ether	2500.0000	0.0000	2826.3763	113		75 - 126
1,1-Dichloroethane	2500.0000	0.0000	2624.8790	105		75 - 125
Vinyl acetate	2500.0000	0.0000	2902.6909	116		65 - 138
2-Butanone	2500.0000	0.0000	3044.2162	122		30 - 160
cis-1,2-Dichloroethene	2500.0000	0.0000	2711.9769	108		65 - 125
Chloroform	2500.0000	0.0000	2606.0494	104		70 - 125
1,1,1-Trichloroethane	2500.0000	0.0000	2559.1805	102		70 - 135
Carbon tetrachloride	2500.0000	0.0000	2600.2169	104		65 - 135
1,2-Dichloroethane	2500.0000	0.0000	2684.7305	107		70 - 135
Benzene	2500.0000	0.0000	2604.5734	104		75 - 125
Trichloroethene	2500.0000	0.0000	2721.6556	109		75 - 125
1,2-Dichloropropane	2500.0000	0.0000	2617.8395	105		70 - 120
Bromodichloromethane	2500.0000	0.0000	2611.6524	104		70 - 130
cis-1,3-Dichloropropene	2500.0000	0.0000	2650.0890	106		70 - 125
4-Methyl-2-pentanone	2500.0000	0.0000	3181.4139	127		45 - 145
Toluene	2500.0000	0.0000	2563.2801	103		70 - 125
trans-1,3-Dichloropropene	2500.0000	0.0000	2682.8859	107		65 - 125
1,1,2-Trichloroethane	2500.0000	0.0000	2790.1150	112		60 - 125
Tetrachloroethene	2500.0000	0.0000	2029.4182	81		65 - 140
2-Hexanone	2500.0000	0.0000	3128.5859	125		45 - 145
Dibromochloromethane	2500.0000	0.0000	2606.2950	104		65 - 130
Chlorobenzene	2500.0000	0.0000	2496.6553	100		75 - 125
Ethylbenzene	2500.0000	0.0000	2482.4450	99		75 - 125
m,p-Xylene	5000.0000	0.0000	4957.8288	99		80 - 125
o-Xylene	2500.0000	0.0000	2533.9686	101		75 - 125
Xylene (Total)	7500.0000	0.0000	7491.7973	100		75 - 125
Styrene	2500.0000	0.0000	2544.8325	102		75 - 125
Bromoform	2500.0000	0.0000	2728.0540	109		55 - 135
Isopropylbenzene	2500.0000	0.0000	2501.9053	100		75 - 130
1,1,2,2-Tetrachloroethane	2500.0000	0.0000	2132.7121	85		55 - 130
n-Propylbenzene	2500.0000	0.0000	2496.9780	100		65 - 135
1,3,5-Trimethylbenzene	2500.0000	0.0000	2452.0647	98		65 - 135
tert-Butylbenzene	2500.0000	0.0000	2650.5816	106		65 - 130
1,2,4-Trimethylbenzene	2500.0000	0.0000	2477.4086	99		65 - 135

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-66534

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 Lab Sample ID: LCS-66534 LCS Lot No.: _____
 Date Extracted: 06/05/2012 Date Analyzed (1): 06/05/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
sec-Butylbenzene	2500.0000	0.0000	2477.2609	99		65 - 130
4-Isopropyltoluene	2500.0000	0.0000	2469.1541	99		75 - 135
1,3-Dichlorobenzene	2500.0000	0.0000	2378.4755	95		70 - 125
1,4-Dichlorobenzene	2500.0000	0.0000	2382.9244	95		70 - 125
n-Butylbenzene	2500.0000	0.0000	2442.5363	98		65 - 140
1,2-Dichlorobenzene	2500.0000	0.0000	2417.9473	97		75 - 120
Naphthalene	2500.0000	0.0000	2407.2400	96		40 - 125
2-Chloroethyl vinyl ether	2500.0000	0.0000	1714.3264	69	*	70 - 130

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

* Values outside of QC limits

Spike Recovery: 1 out of 52 outside limits

COMMENTS: _____

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66466

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: L1187

Mod. Ref No.:

SDG No.: SL1187

Lab Sample ID: LCSD-66466

LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS	
							RPD	REC.
Chloromethane	50.0000	38.6922	77		16		40	40 - 125
Vinyl chloride	50.0000	38.3102	77		13		40	50 - 145
Bromomethane	50.0000	40.8878	82		16		40	30 - 145
Chloroethane	50.0000	40.7015	81		17		40	60 - 135
Trichlorofluoromethane	50.0000	41.2740	83		11		40	60 - 145
1,1-Dichloroethene	50.0000	40.5729	81		14		40	70 - 130
Acetone	50.0000	50.6942	101		1		40	40 - 140
Carbon disulfide	50.0000	42.9554	86		11		40	35 - 160
Methylene chloride	50.0000	42.5122	85		15		40	55 - 140
trans-1,2-Dichloroethene	50.0000	42.6952	85		13		40	60 - 140
Methyl tert-butyl ether	50.0000	47.6453	95		8		40	65 - 125
1,1-Dichloroethane	50.0000	42.5442	85		14		40	70 - 135
Vinyl acetate	50.0000	49.1511	98		12		40	38 - 163
2-Butanone	50.0000	51.4062	103		1		40	30 - 150
cis-1,2-Dichloroethene	50.0000	44.2540	89		10		40	70 - 125
Chloroform	50.0000	44.4309	89		10		40	65 - 135
1,1,1-Trichloroethane	50.0000	42.7430	85		13		40	65 - 130
Carbon tetrachloride	50.0000	42.9403	86		11		40	65 - 140
1,2-Dichloroethane	50.0000	46.1129	92		9		40	70 - 130
Benzene	50.0000	44.0230	88		11		40	80 - 120
Trichloroethene	50.0000	43.0129	86		11		40	70 - 125
1,2-Dichloropropane	50.0000	44.7992	90		10		40	75 - 125
Bromodichloromethane	50.0000	45.3513	91		9		40	75 - 120
cis-1,3-Dichloropropene	50.0000	45.7740	92		10		40	70 - 130
4-Methyl-2-pentanone	50.0000	51.2982	103		3		40	60 - 135
Toluene	50.0000	44.0015	88		12		40	75 - 120
trans-1,3-Dichloropropene	50.0000	46.6138	93		10		40	55 - 140
1,1,2-Trichloroethane	50.0000	46.8735	94		7		40	75 - 125
Tetrachloroethene	50.0000	39.0645	78		5		40	45 - 150
2-Hexanone	50.0000	51.2368	102		3		40	55 - 130
Dibromochloromethane	50.0000	46.2776	93		7		40	60 - 135
Chlorobenzene	50.0000	44.4559	89		8		40	80 - 120
Ethylbenzene	50.0000	43.1019	86		11		40	75 - 125
m,p-Xylene	100.0000	88.5601	89		10		40	75 - 130
o-Xylene	50.0000	43.9942	88		10		40	80 - 120
Xylene (Total)	150.0000	132.5542	88		11		40	81 - 121
Styrene	50.0000	45.0068	90		11		40	65 - 135
Bromoform	50.0000	48.0763	96		5		40	70 - 130
Isopropylbenzene	50.0000	44.6046	89		9		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	36.7147	73		8		40	65 - 130
n-Propylbenzene	50.0000	44.2982	89		10		40	70 - 130
1,3,5-Trimethylbenzene	50.0000	45.5444	91		8		40	75 - 130
tert-Butylbenzene	50.0000	48.4667	97		11		40	70 - 130
1,2,4-Trimethylbenzene	50.0000	45.2221	90		9		40	75 - 130
sec-Butylbenzene	50.0000	45.8709	92		7		40	70 - 125
4-Isopropyltoluene	50.0000	46.2557	93		6		40	75 - 130

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Lab Sample ID: LCSD-66466 LCS Lot No.: _____

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS	
							RPD	REC.
1,3-Dichlorobenzene	50.0000	45.0193	90		7		40	75 - 125
1,4-Dichlorobenzene	50.0000	44.9864	90		9		40	75 - 125
n-Butylbenzene	50.0000	46.6109	93		6		40	70 - 135
1,2-Dichlorobenzene	50.0000	44.8098	90		6		40	70 - 120
Naphthalene	50.0000	46.4778	93		1		40	55 - 140
2-Chloroethyl vinyl ether	50.0000	44.9338	90		4		40	0 - 169

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

* Values outside of QC limits

RPD: 0 out of 52 outside limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS: _____

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66514

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: L1187

Mod. Ref No.:

SDG No.: SL1187

Lab Sample ID: LCSD-66514

LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #		%RPD #		QC LIMITS	
							RPD	REC.
Chloromethane	50.0000	54.0308	108		8		40	50 - 130
Vinyl chloride	50.0000	56.4999	113		9		40	60 - 125
Bromomethane	50.0000	51.4506	103		9		40	30 - 160
Chloroethane	50.0000	54.5590	109		17		40	40 - 155
Trichlorofluoromethane	50.0000	50.0684	100		3		40	25 - 185
1,1-Dichloroethene	50.0000	51.3414	103		6		40	65 - 135
Acetone	50.0000	47.0714	94		5		40	20 - 160
Carbon disulfide	50.0000	50.1270	100		6		40	45 - 160
Methylene chloride	50.0000	49.3997	99		8		40	55 - 140
trans-1,2-Dichloroethene	50.0000	51.9758	104		6		40	65 - 135
Methyl tert-butyl ether	50.0000	52.9395	106		9		40	75 - 126
1,1-Dichloroethane	50.0000	51.7672	104		4		40	75 - 125
Vinyl acetate	50.0000	54.8553	110		5		40	65 - 138
2-Butanone	50.0000	54.3834	109		6		40	30 - 160
cis-1,2-Dichloroethene	50.0000	52.3577	105		7		40	65 - 125
Chloroform	50.0000	51.9276	104		6		40	70 - 125
1,1,1-Trichloroethane	50.0000	51.0661	102		4		40	70 - 135
Carbon tetrachloride	50.0000	50.6109	101		4		40	65 - 135
1,2-Dichloroethane	50.0000	52.0540	104		6		40	70 - 135
Benzene	50.0000	52.1447	104		4		40	75 - 125
Trichloroethene	50.0000	51.2782	103		6		40	75 - 125
1,2-Dichloropropane	50.0000	52.4028	105		5		40	70 - 120
Bromodichloromethane	50.0000	52.6242	105		7		40	70 - 130
cis-1,3-Dichloropropene	50.0000	53.3542	107		5		40	70 - 125
4-Methyl-2-pentanone	50.0000	54.5617	109		2		40	45 - 145
Toluene	50.0000	51.0967	102		2		40	70 - 125
trans-1,3-Dichloropropene	50.0000	53.0504	106		6		40	65 - 125
1,1,2-Trichloroethane	50.0000	51.1276	102		6		40	60 - 125
Tetrachloroethene	50.0000	50.6547	101		5		40	65 - 140
2-Hexanone	50.0000	55.7922	112		4		40	45 - 145
Dibromochloromethane	50.0000	53.1778	106		7		40	65 - 130
Chlorobenzene	50.0000	51.6623	103		4		40	75 - 125
Ethylbenzene	50.0000	52.8802	106		3		40	75 - 125
m,p-Xylene	100.0000	104.6126	105		1		40	80 - 125
o-Xylene	50.0000	53.4040	107		2		40	75 - 125
Xylene (Total)	150.0000	158.0165	105		0		40	83 - 125
Styrene	50.0000	54.6525	109		3		40	75 - 125
Bromoform	50.0000	53.8323	108		7		40	55 - 135
Isopropylbenzene	50.0000	53.4096	107		1		40	75 - 130
1,1,2,2-Tetrachloroethane	50.0000	51.0166	102		2		40	55 - 130
n-Propylbenzene	50.0000	50.7549	102		2		40	65 - 135
1,3,5-Trimethylbenzene	50.0000	51.7250	103		3		40	65 - 135
tert-Butylbenzene	50.0000	53.2171	106		3		40	65 - 130
1,2,4-Trimethylbenzene	50.0000	51.7877	104		4		40	65 - 135
sec-Butylbenzene	50.0000	51.0834	102		2		40	65 - 130
4-Isopropyltoluene	50.0000	52.0130	104		2		40	75 - 135

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-66514

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 Lab Sample ID: LCSD-66514 LCS Lot No.: _____

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #		%RPD #		QC LIMITS	
							RPD	REC.
1,3-Dichlorobenzene	50.0000	50.6168	101		2		40	70 - 125
1,4-Dichlorobenzene	50.0000	50.3039	101		3		40	70 - 125
n-Butylbenzene	50.0000	51.5454	103		0		40	65 - 140
1,2-Dichlorobenzene	50.0000	50.7818	102		4		40	75 - 120
Naphthalene	50.0000	53.7840	108		5		40	40 - 125
2-Chloroethyl vinyl ether	50.0000	64.8584	130		2		40	70 - 130

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

* Values outside of QC limits

RPD: 0 out of 52 outside limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66466

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Lab File ID: V6I7391.D Lab Sample ID: MB-66466
Instrument ID: V6
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/31/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 18:50
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-66466	LCS-66466	V6I7387.D	17:12
02	LCSD-66466	LCSD-66466	V6I7388.D	17:36
03	TRIP BLANK	L1187-03A	V6I7392.D	19:14
04	GP-13	L1187-01A	V6I7393.D	19:38
05	GP-15	L1187-02A	V6I7394.D	20:03

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66534

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Lab File ID: V6I7505.D Lab Sample ID: MB-66534
Instrument ID: V6
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/05/2012
Level: (TRACE or LOW/MED) MED Time Analyzed: 15:48
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-66534	LCS-66534	V6I7502.D	14:35
02	GP-11 11' -12' ME	L1187-04A	V6I7508.D	17:01
03	GP-14 10' -12' ME	L1187-05A	V6I7509.D	17:25
04	GP-16 9' -11' ME	L1187-06A	V6I7510.D	17:49

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-66514

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
Lab File ID: V8B2092.D Lab Sample ID: MB-66514
Instrument ID: V10
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/04/2012
Level: (TRACE or LOW/MED) LOW Time Analyzed: 15:11
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-66514	LCS-66514	V8B2088.D	12:00
02	LCSD-66514	LCSD-66514	V8B2089.D	12:26
03	GP-11 11' -12'	L1187-04A	V8B2094.D	16:08
04	GP-14 10' -12'	L1187-05A	V8B2095.D	16:34
05	GP-16 9' -11'	L1187-06A	V8B2096.D	17:00

COMMENTS:

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/31/2012 05/31/2012
 EPA Sample No.(VSTD#####): VSTD0506M Date Analyzed: 05/31/2012
 Lab File ID (Standard): V6I7374.D Time Analyzed: 10:03
 Instrument ID: V6 Heated Purge: (Y/N) N

		IS1 (S1)		IS2 (S2)		IS3 (S3)	
		AREA	#	AREA	#	AREA	#
	12 HOUR STD	654802	5.306	549965	8.3	300540	10.796
	UPPER LIMIT	1309604	5.806	1099930	8.8	601080	11.296
	LOWER LIMIT	327401	4.806	274983	7.8	150270	10.296
	EPA SAMPLE NO.						
01	LCS-66466	640976	5.309	541021	8.291	295541	10.787
02	LCSD-66466	633791	5.309	528328	8.291	287283	10.788
03	MB-66466	630737	5.308	515036	8.290	255731	10.798
04	TRIP BLANK	640732	5.306	515900	8.299	256581	10.796
05	GP-13	634016	5.308	509800	8.290	252174	10.798
06	GP-15	631971	5.306	519924	8.288	254982	10.797

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.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 06/01/2012 06/01/2012
 EPA Sample No.(VSTD#####): VSTD0506R Date Analyzed: 06/05/2012
 Lab File ID (Standard): V6I7501.D Time Analyzed: 13:47
 Instrument ID: V6 Heated Purge: (Y/N) N

	IS1 (S1)		IS2 (S2)		IS3 (S3)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	615224	5.308	528078	8.29	274802	10.786
UPPER LIMIT	1230448	5.808	1056156	8.79	549604	11.286
LOWER LIMIT	307612	4.808	264039	7.79	137401	10.286
EPA SAMPLE NO.						
01 LCS-66534	624675	5.309	530821	8.290	284257	10.787
02 MB-66534	614467	5.306	521698	8.288	242379	10.796
03 GP-11 11'-12'ME	603947	5.309	523885	8.291	267136	10.788
04 GP-14 10'-12'ME	604154	5.297	520371	8.291	264243	10.788
05 GP-16 9'-11'ME	609028	5.307	528382	8.289	267151	10.786

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.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 06/01/2012 06/01/2012
 EPA Sample No.(VSTD#####): VSTD0506R Date Analyzed: 06/05/2012
 Lab File ID (Standard): V6I7501.D Time Analyzed: 13:47
 Instrument ID: V6 Heated Purge: (Y/N) N

	IS1 (S1)		IS2 (S2)		IS3 (S3)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	615224	5.308	528078	8.29	274802	10.786
UPPER LIMIT	1230448	5.808	1056156	8.79	549604	11.286
LOWER LIMIT	307612	4.808	264039	7.79	137401	10.286
EPA SAMPLE NO.						
01 LCS-66534	624675	5.309	530821	8.290	284257	10.787
02 MB-66534	614467	5.306	521698	8.288	242379	10.796
03 GP-11 11'-12'ME	603947	5.309	523885	8.291	267136	10.788
04 GP-14 10'-12'ME	604154	5.297	520371	8.291	264243	10.788
05 GP-16 9'-11'ME	609028	5.307	528382	8.289	267151	10.786

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.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L1187 Mod. Ref No.: _____ SDG No.: SL1187
 GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 06/04/2012 06/04/2012
 EPA Sample No.(VSTD#####): VSTD05010L Date Analyzed: 06/04/2012
 Lab File ID (Standard): V8B2082.D Time Analyzed: 8:39
 Instrument ID: V10 Heated Purge: (Y/N) Y

		IS1 (S1)		IS2 (S2)		IS3 (S3)	
		AREA	#	AREA	#	AREA	#
12 HOUR STD		351759	5.3	263635	8.287	133854	10.779
UPPER LIMIT		703518	5.8	527270	8.787	267708	11.279
LOWER LIMIT		175880	4.8	131818	7.787	66927	10.279
EPA SAMPLE NO.							
01	GP-11 11' -12'	389231	5.301	274607	8.288	127206	10.779
02	GP-14 10' -12'	393855	5.300	279809	8.287	128179	10.783
03	GP-16 9' -11'	377611	5.329	270791	8.294	122528	10.783

IS1 () = Fluorobenzene

IS2 () = Chlorobenzene-d5

IS3 () = 1,4-Dichlorobenzene-d4

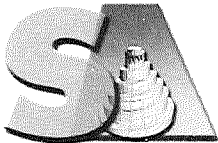
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

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.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 6/5/12
• All TATs subject to laboratory approval.
• Min. 24-hour notification needed for rushes.
• Samples disposed of after 60 days unless otherwise instructed.

Report To: LaBella Assoc., P.C.
300 State St.
Pechester, NY 14614

Telephone #: (585) 454-6110
Project Mgr. Dan Noll

Invoice To: SAME

P.O. No.: _____ RQN: _____

Project No.: 212440

Site Name: 3750 Monroe Ave.

Location: Pechester State: NY

Sampler(s): KR Miller

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9=Deionized Water 10= _____ 11= _____

List preservative code below:

2 1 _____

QA/QC Reporting Notes:

* additional charges may apply

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

Containers:

Analyses:

MA DEP MCP CAM Report: Yes ☐ No ☐

CT DPH RCP Report: Yes ☐ No ☐

QA/QC Reporting Level

- ☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*

☒ Other ASP Cat B

State-specific reporting standards:

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses
01	GP-13	5/30/12	14:00	G	GW	2				TCL+CP51 X
02	GP-15		16:25		GW	2				X
03	Trip Blank				DW	1				X
04	GP-11 11'-12"		9:00		SO		1			X
05	GP-14 10'-12'		13:30		km					X
06	GP-16 9'-11'		16:00		km					X

Relinquished by:

Kyler LMM
FedEx

Received by:

FedEx
Km

Date:

5/30/12
5/31/12

Time:

18:20
9:10

Temp °C

50

☒ EDD Format

☒ E-mail to dnoll@labellapc.com
Km Miller@labellapc.com

☐ Ambient ☐ Iced ☐ Refrigerated ☐ Fridge temp _____ °C ☐ Freezer temp _____ °C

Received By: <i>FAV</i>		Page 01 of 00	
Reviewed By: <i>Vannibjorn</i>		Log-in Date 05/31/2012	
Work Order: L1187		Client Name: LaBella Associates	
Project Name/Event: LaBella Stand By			
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.			

	Lab Sample ID	Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
		HNO3	H2SO4	HCl	NaOH	H3PO4		
1. Custody Seal(s) Present / Absent	L1187-01						H	
Intact / Broken	L1187-02						H	
2. Custody Seal Nos. N/A	L1187-03						H	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists Present / Absent	L1187-04							
	L1187-05							
	L1187-06							
4. Airbill AirBill / Sticker Present / Absent								
5. Airbill No. FedEx 8000 2719 8559								
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 05/31/2012								
12. Time Received 09:00								
Sample Transfer								
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO							
Area #	Area #							
By	By							
On	On							
IR Temp Gun ID: MT-1		VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze						
Coolant Condition: ICE								
Preservative Name/Lot No:								
		See Sample Condition Notification/Corrective Action Form Yes / No						
		Rad OK Yes / No						

Accutest Labs of New England, Inc.			May 15, 2012 16:50 pm	
Job Number:	MC10521			
Account:	LaBella Associates, PC			
Project:	3750 Monroe Avenue, Pittsford, NY			
Project Number:				
			Legend:	Hit
Client Sample ID:		MW-01	MW-02	MW-03
Lab Sample ID:		MC10521-3	MC10521-4	MC10521-5
Date Sampled:		05/11/2012	05/11/2012	05/11/2012
Matrix:		Ground Water	Ground Water	Ground Water
GC/MS Volatiles (SW846 8260B)				
Acetone	ug/l	ND (5.0)	7.3	ND (5.0)
Benzene	ug/l	ND (0.50)	ND (0.50)	ND (0.50)
Bromodichloromethane	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
Bromoform	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
Bromomethane	ug/l	ND (2.0)	ND (2.0)	ND (2.0)
2-Butanone (MEK)	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
n-Butylbenzene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
sec-Butylbenzene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
tert-Butylbenzene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
Carbon disulfide	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
Carbon tetrachloride	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
Chlorobenzene	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
Chloroethane	ug/l	ND (2.0)	ND (2.0)	ND (2.0)
Chloroform	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
Chloromethane	ug/l	ND (2.0)	ND (2.0)	ND (2.0)
Dibromochloromethane	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	ug/l	ND (1.0)	ND (1.0)	14.3
1,2-Dichloroethane	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	ug/l	ND (1.0)	ND (1.0)	16.1
cis-1,2-Dichloroethene	ug/l	ND (1.0)	ND (1.0)	418
trans-1,2-Dichloroethene	ug/l	ND (1.0)	ND (1.0)	3.1
1,2-Dichloropropane	ug/l	ND (2.0)	ND (2.0)	ND (2.0)
cis-1,3-Dichloropropene	ug/l	ND (0.50)	ND (0.50)	ND (0.50)
trans-1,3-Dichloropropene	ug/l	ND (0.50)	ND (0.50)	ND (0.50)
Ethylbenzene	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
2-Hexanone	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
Isopropylbenzene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
p-Isopropyltoluene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
Methyl Tert Butyl Ether	ug/l	ND (1.0)	ND (1.0)	3.7
4-Methyl-2-pentanone (MIBK)	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
Methylene bromide	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
Methylene chloride	ug/l	ND (2.0)	ND (2.0)	ND (2.0)
Naphthalene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
n-Propylbenzene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
Styrene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
1,1,2,2-Tetrachloroethane	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
Tetrachloroethene	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
Toluene	ug/l	ND (1.0)	ND (1.0)	1.4
1,1,1-Trichloroethane	ug/l	ND (1.0)	ND (1.0)	4.7
1,1,2-Trichloroethane	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	ug/l	ND (1.0)	ND (1.0)	1110

1,2,4-Trimethylbenzene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
1,3,5-Trimethylbenzene	ug/l	ND (5.0)	ND (5.0)	ND (5.0)
Vinyl chloride	ug/l	ND (1.0)	ND (1.0)	181
m,p-Xylene	ug/l	ND (1.0)	ND (1.0)	1.7
o-Xylene	ug/l	ND (1.0)	ND (1.0)	ND (1.0)
Xylene (total)	ug/l	ND (1.0)	ND (1.0)	2.7
Client Sample ID:		GP-08-10'	TP-01	
Lab Sample ID:		MC10521-2	MC10521-1	
Date Sampled:		05/10/2012	05/10/2012	
Matrix:		Soil	Soil	
GC/MS Volatiles (SW846 8260B)				
Acetone	ug/kg	ND (330)	ND (330)	
Benzene	ug/kg	ND (33)	ND (33)	
Bromodichloromethane	ug/kg	ND (130)	ND (130)	
Bromoform	ug/kg	ND (130)	ND (130)	
Bromomethane	ug/kg	ND (130)	ND (130)	
2-Butanone (MEK)	ug/kg	ND (330)	ND (330)	
n-Butylbenzene	ug/kg	ND (330)	ND (330)	
sec-Butylbenzene	ug/kg	ND (330)	ND (330)	
tert-Butylbenzene	ug/kg	ND (330)	ND (330)	
Carbon disulfide	ug/kg	ND (330)	ND (330)	
Carbon tetrachloride	ug/kg	ND (130)	ND (130)	
Chlorobenzene	ug/kg	ND (130)	ND (130)	
Chloroethane	ug/kg	ND (330)	ND (330)	
Chloroform	ug/kg	ND (130)	ND (130)	
Chloromethane	ug/kg	ND (330)	ND (330)	
Dibromochloromethane	ug/kg	ND (130)	ND (130)	
1,1-Dichloroethane	ug/kg	ND (130)	ND (130)	
1,2-Dichloroethane	ug/kg	ND (130)	ND (130)	
1,1-Dichloroethene	ug/kg	ND (130)	ND (130)	
cis-1,2-Dichloroethene	ug/kg	ND (130)	ND (130)	
trans-1,2-Dichloroethene	ug/kg	ND (130)	ND (130)	
1,2-Dichloropropane	ug/kg	ND (130)	ND (130)	
cis-1,3-Dichloropropene	ug/kg	ND (130)	ND (130)	
trans-1,3-Dichloropropene	ug/kg	ND (130)	ND (130)	
Ethylbenzene	ug/kg	ND (130)	ND (130)	
2-Hexanone	ug/kg	ND (330)	ND (330)	
Isopropylbenzene	ug/kg	ND (330)	ND (330)	
p-Isopropyltoluene	ug/kg	ND (330)	ND (330)	
Methyl Tert Butyl Ether	ug/kg	ND (130)	ND (130)	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND (330)	ND (330)	
Methylene chloride	ug/kg	ND (130)	ND (130)	
Naphthalene	ug/kg	ND (330)	ND (330)	
n-Propylbenzene	ug/kg	ND (330)	ND (330)	
Styrene	ug/kg	ND (330)	ND (330)	
1,1,2,2-Tetrachloroethane	ug/kg	ND (130)	ND (130)	
Tetrachloroethene	ug/kg	ND (130)	ND (130)	
Toluene	ug/kg	ND (330)	ND (330)	
1,1,1-Trichloroethane	ug/kg	ND (130)	ND (130)	
1,1,2-Trichloroethane	ug/kg	ND (130)	ND (130)	
Trichloroethene	ug/kg	ND (130)	ND (130)	
1,2,4-Trimethylbenzene	ug/kg	ND (330)	ND (330)	

	ug/kg	ND (330)	ND (330)	
Vinyl chloride	ug/kg	ND (130)	ND (130)	
m,p-Xylene	ug/kg	ND (130)	ND (130)	
o-Xylene	ug/kg	ND (130)	ND (130)	
Xylene (total)	ug/kg	ND (130)	ND (130)	
GC/MS Semi-volatiles (SW846 8270C)				
Acenaphthene	ug/kg	ND (290)	ND (280)	
Acenaphthylene	ug/kg	ND (290)	344	
Anthracene	ug/kg	ND (290)	ND (280)	
Benzo(a)anthracene	ug/kg	ND (290)	542	
Benzo(a)pyrene	ug/kg	ND (290)	474	
Benzo(b)fluoranthene	ug/kg	ND (290)	545	
Benzo(g,h,i)perylene	ug/kg	ND (290)	ND (280)	
Benzo(k)fluoranthene	ug/kg	ND (290)	ND (280)	
Chrysene	ug/kg	ND (290)	427	
Dibenzo(a,h)anthracene	ug/kg	ND (290)	ND (280)	
Fluoranthene	ug/kg	ND (290)	840	
Fluorene	ug/kg	ND (290)	ND (280)	
Indeno(1,2,3-cd)pyrene	ug/kg	ND (290)	ND (280)	
Naphthalene	ug/kg	ND (290)	ND (280)	
Phenanthrene	ug/kg	ND (290)	327	
Pyrene	ug/kg	ND (290)	855	
General Chemistry				
Solids, Percent	%	83.4	85.8	



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

LaBella Associates, P.C.

For Lab Project # 12:2174

Issued May 22, 2012

This report contains a total of 3 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

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The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"<" = analyzed for but not detected at or above the reporting limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

PARADIGM

CHAIN OF CUSTODY

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

REPORT TO:

INVOICE TO:

COMPANY:

La Bella Associates

COMPANY:

ADDRESS:

ADDRESS:

300 State St

ADDRESS:

CITY:

Rochester

CITY:

STATE:

STATE:

ZIP:

ZIP:

PHONE:

FAX:

PHONE:

FAX:

PHONE:

FAX:

PHONE:

FAX:

PHONE:

FAX:

PROJECT NAME/SITE NAME:

Morrise Ave

ATTN:

D. Neil

ATTN:

LAB PROJECT #:

CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)

QUOTE #:

1

2

3

4

5

6

7

8

9

10

REQUESTED ANALYSIS

DATE	TIME	COMPOSITION	GRADES	SAMPLE LOCATION/FIELD ID	MATERIALS	CONTAMINANTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1/5/12				Mur-5	Water	Z	X	01
2								
3								
4								
5								
6								
7								
8								
9								
10								

** LAB USE ONLY BELOW THIS LINE **

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter

NELAC Compliance

Container Type:

☒ Y ☐ N

Preservation:

☒ Y ☐ N

Holding Time:

☒ Y ☐ N

Temperature:

☒ Y ☐ N

Comments:

Michael F. Kelly

Date/Time

5/12/12

Total Cost:

Mud & Alloys

Date/Time

5/21/12 0745

Relinquished By

Date/Time

5/18/12 745

P.L.F.

Received By

Date/Time

5/11/12 0955

P.L.F.

**Volatile Analysis Report for Non-potable Water****Client:** Labella Associates, P.C.**Client Job Site:** Monroe Ave.**Lab Project Number:** 12:2174**Lab Sample Number:** 12:2174-01**Client Job Number:** N/A**Field Location:** MW-3**Date Sampled:** 05/17/2012**Field ID Number:** N/A**Date Received:** 05/21/2012**Sample Type:** Water**Date Analyzed:** 05/21/2012

Halocarbons	Results in ug / L
Bromodichloromethane	< 100
Bromomethane	< 100
Bromoform	< 250
Carbon Tetrachloride	< 100
Chloroethane	< 100
Chloromethane	< 100
2-Chloroethyl vinyl Ether	< 500
Chloroform	< 100
Dibromochloromethane	< 100
1,1-Dichloroethane	< 100
1,2-Dichloroethane	< 100
1,1-Dichloroethene	< 100
cis-1,2-Dichloroethene	492
trans-1,2-Dichloroethene	< 100
1,2-Dichloropropane	< 100
cis-1,3-Dichloropropene	< 100
trans-1,3-Dichloropropene	< 100
Methylene chloride	< 250
1,1,2,2-Tetrachloroethane	< 100
Tetrachloroethene	< 100
1,1,1-Trichloroethane	< 100
1,1,2-Trichloroethane	< 100
Trichloroethene	2,730
Trichlorofluoromethane	< 100
Vinyl chloride	< 100

Aromatics	Results in ug / L
Benzene	< 35.0
Chlorobenzene	< 100
Ethylbenzene	< 100
Toluene	< 100
m,p-Xylene	< 100
o-Xylene	< 100
Styrene	< 250
1,2-Dichlorobenzene	< 100
1,3-Dichlorobenzene	< 100
1,4-Dichlorobenzene	< 100

Ketones	Results in ug / L
Acetone	< 500
2-Butanone	< 500
2-Hexanone	< 250
4-Methyl-2-pentanone	< 250

Miscellaneous	Results in ug / L
Carbon disulfide	< 100
Vinyl acetate	< 250

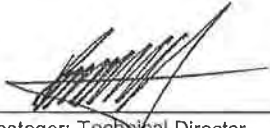
ELAP Number 10958

Method: EPA 8260B

Data File: V97247.D

Comments: ug / L = microgram per Liter

Signature:


Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

122174V1.XLS