1216610 - R8 SDMS

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

H30Y6

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-18B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5220.D

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

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/02/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/03/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

SOM01.2 (6/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

H30Y6

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-18B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5220.D

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

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/02/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/03/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	1.0	J
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

(1) Cannot be separated from Diphenylamine

SOM01.2 (6/2007)

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

H30Y6

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-18B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5220.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/02/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/03/2011

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

CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.670	7.5	J
02		Unknown-02	4.874	5.9	J
03		Unknown-03	5.185	2.7	J
04		Unknown-04	5.399	6.5	J
05		Unknown-05	5.743	3.7	J
06		Unknown-06	6.365	5.0	J
07		Unknown-07	6.633	2.5	J
08		Unknown-08	6.740	4.3	J
09	7044-92-0	1,4-Benzenedicarboxaldehyde,	7.512	6.1	NJ
10		Unknown-09	7.727	4.3	J
11	638-53-9	Tridecanoic acid	8.102	10	NJ
12		Unknown-10	8.263	4.1	J
13		Unknown-11	8.306	9.2	J
14		Unknown-12	10.590	30	J
15		Unknown-13	14.322	2.0	J
16		Unknown-14	15.426	2.5	J
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

SOM01.2 (6/2007)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D
Report Date: 07-Nov-2011 14:03

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5220.D
Lab Smp Id: K2200-18B Client Smp ID: H30Y6
Inj Date : 03-NOV-2011 22:10
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : K2200-18B,,62636,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_SOM.m
Meth Date : 07-Nov-2011 14:01 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 2 Phenol-d5	71	3.565	3.565	(0.917)	253909	55.0881	28
$ 4 bis(2-Chloroethyl)ether-d8	67	3.619	3.619	(0.931)	383890	60.4428	30
$ 6 2-Chlorophenol-d4	132	3.694	3.694	(0.950)	245817	61.6516	31
* 8 1,4-Dichlorobenzene-d4	152	3.887	3.887	(1.000)	146369	40.0000	(Q)
$ 11 4-Methylphenol-d8	113	4.198	4.198	(1.080)	409346	65.5085	33
$ 16 Nitrobenzene-d5	128	4.348	4.348	(0.879)	131565	62.8419	31(Q)
$ 19 2-Nitrophenol-d4	143	4.616	4.616	(0.933)	153227	66.2980	33
$ 23 2,4-Dichlorophenol-d3	165	4.820	4.820	(0.974)	275044	65.1903	33
* 25 Naphthalene-d8	136	4.949	4.948	(1.000)	402011	40.0000	
$ 27 4-Chloroaniline-d4	131	5.002	5.002	(1.011)	96046	25.6383	13(Q)
$ 40 Dimethylphthalate-d6	166	6.171	6.171	(0.962)	702328	63.2120	32
$ 43 Acenaphthylene-d8	160	6.289	6.289	(0.980)	710022	49.1428	25
* 46 Acenaphthene-d10	164	6.418	6.418	(1.000)	302182	40.0000	
$ 49 4-Nitrophenol-d4	143	6.514	6.503	(1.015)	81213	50.7204	25
$ 54 Fluorene-d10	176	6.847	6.847	(1.067)	434373	42.5608	21
$ 58 4,6-Dinitro-2-methylphenol-d2	200	6.900	6.900	(0.903)	123616	72.8648	36(Q)
* 65 Phenanthrene-d10	188	7.640	7.640	(1.000)	434755	40.0000	
$ 67 Anthracene-d10	188	7.694	7.694	(1.007)	432502	34.8261	17(R)
70 Di-n-butylphthalate	149	8.123	8.123	(1.063)	21821	2.02525	1.0(a)
$ 72 Pyrene-d10	212	8.831	8.820	(0.893)	171150	24.1917	12(R)
* 77 Chrysene-d12	240	9.892	9.871	(1.000)	224578	40.0000	(Q)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D
Report Date: 07-Nov-2011 14:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 83 Benzo(a)pyrene-d12	264	11.179	11.147	(0.983)	33754	12.8187	6.4(RH)
* 85 Perylene-d12	264	11.265	11.233	(1.000)	107308	40.0000	(H)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D
Report Date: 07-Nov-2011 14:03

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5220.D
Lab Smp Id: K2200-18B Client Smp ID: H30Y6
Inj Date : 03-NOV-2011 22:10
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : K2200-18B,,62636,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_SOM.m
Meth Date : 07-Nov-2011 14:01 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 25 Naphthalene-d8	4.949	1486170	40.000
* 46 Acenaphthene-d10	6.418	1676035	40.000
* 65 Phenanthrene-d10	7.641	1474894	40.000
* 85 Perylene-d12	11.265	257677	40.000

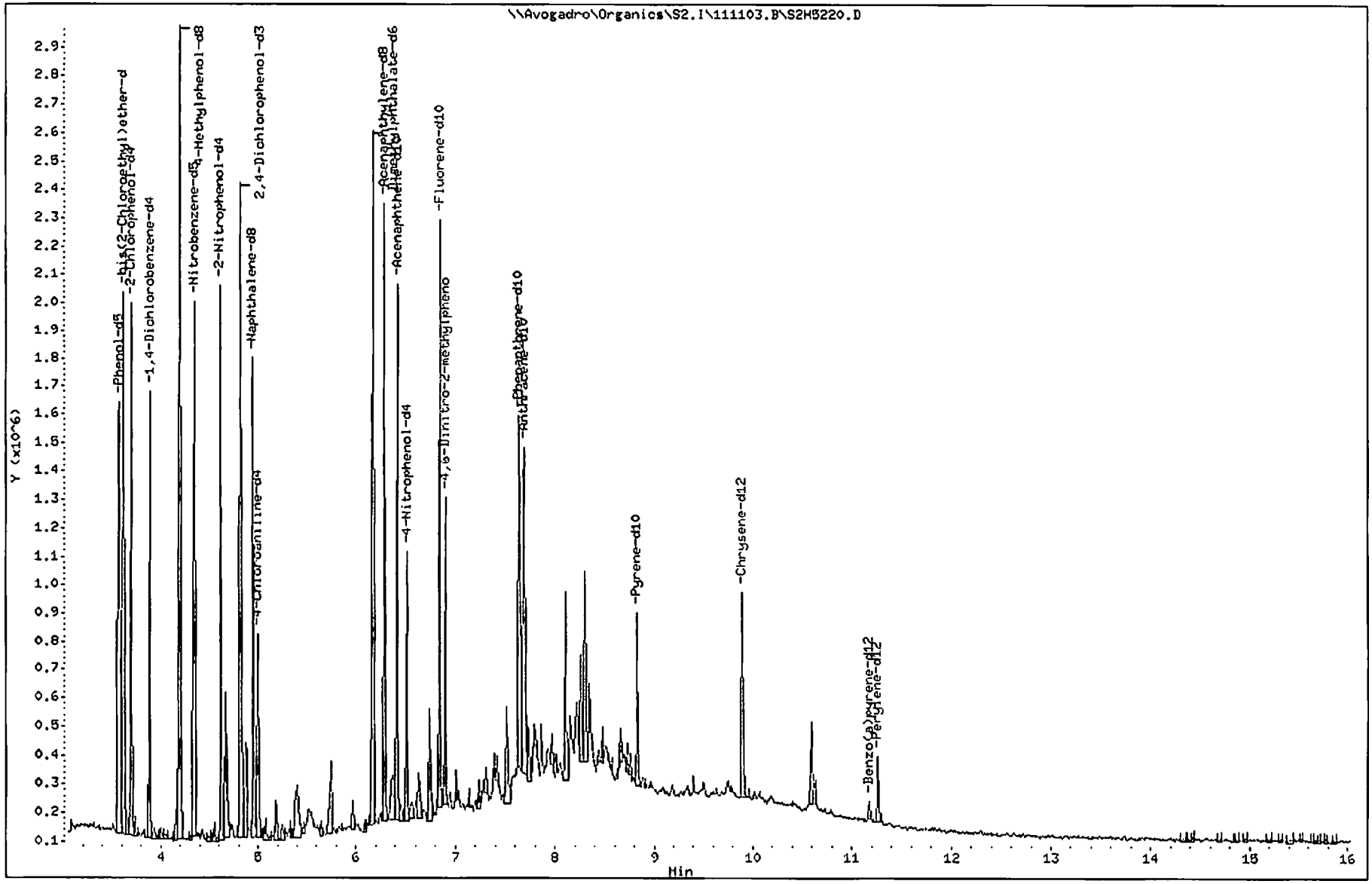
		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
4.670	559269	15.0526091	7.5	0		0	25
Unknown				CAS #:			
4.874	439410	11.8266412	5.9	0		0	25
Unknown				CAS #:			
5.185	202825	5.45898992	2.7	0		0	25

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D
Report Date: 07-Nov-2011 14:03

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.400	480867	12.9424426	6.5	0		0	25
Unknown				CAS #:			
5.743	309016	7.37492697	3.7	0		0	46
Unknown				CAS #:			
6.365	418196	9.98059922	5.0	0		0	46
Unknown				CAS #:			
6.633	209588	5.00198311	2.5	0		0	46
Unknown				CAS #:			
6.740	356782	8.51490577	4.3	0		0	46
1,4-Benzenedicarboxaldehyde, 2,5-dimethy				CAS #: 7044-92-0			
7.512	446539	12.1104002	6.1	90	NIST2002.L	30429	65
Unknown				CAS #:			
7.727	316950	8.59587484	4.3	0		0	65
Tridecanoic acid				CAS #: 638-53-9			
8.102	753763	20.4424990	10	93	NIST2002.L	65565	65
Unknown				CAS #:			
8.263	303821	8.23981709	4.1	0		0	65
Unknown				CAS #:			
8.306	677086	18.3629787	9.2	0		0	65
Unknown				CAS #:			
10.590	390206	60.5727502	30	0		0	85
Unknown				CAS #:			
14.322	25873	4.01633982	2.0	0		0	85
Unknown				CAS #:			
15.426	32413	5.03156888	2.5	0		0	85

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D
Date : 03-NOV-2011 22:10
Client ID: H30Y6
Sample Info: K2200-18B,,62636,,
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.I
Operator: SRC: LIMS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

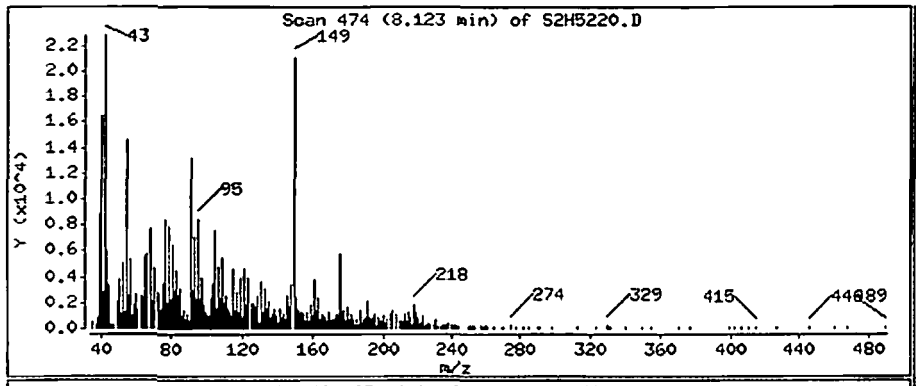
Client ID: H30Y6 Instrument: S2.i

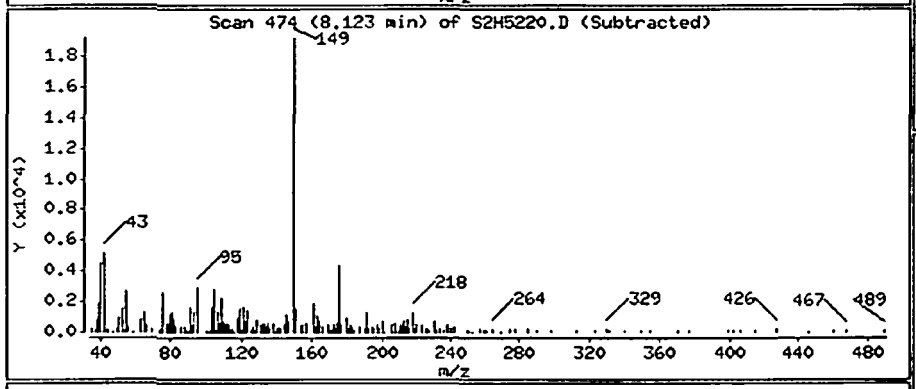
Sample Info: K2200-18B,,62636,,

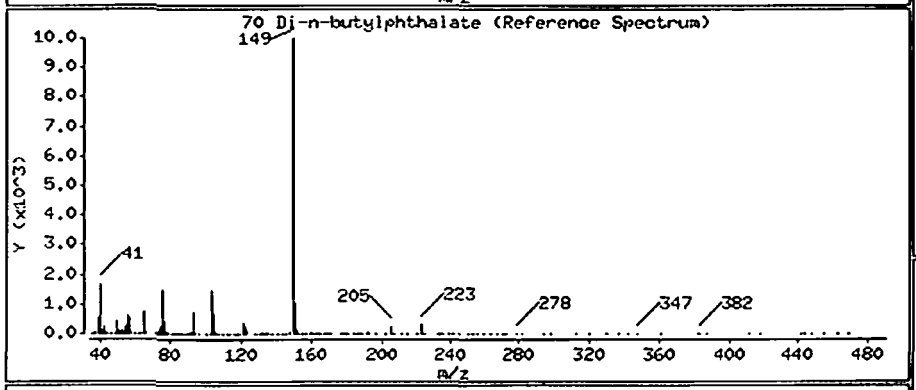
Volume Injected (uL): 2.0 Operator: SRC: LIMS

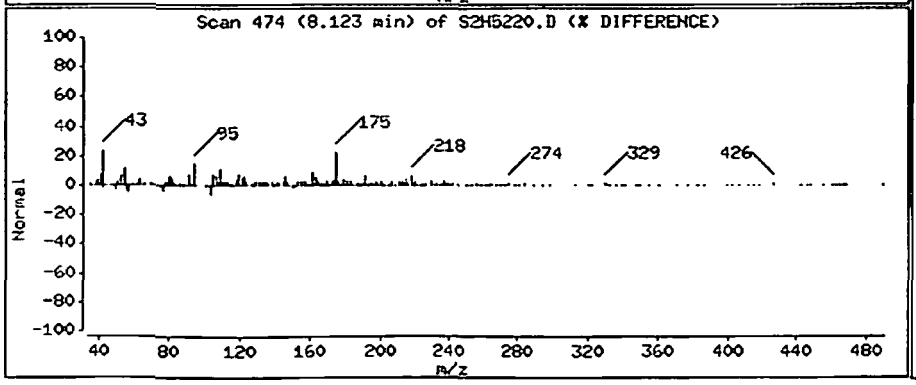
Column phase: RXI-5SILMS Column diameter: 0.25

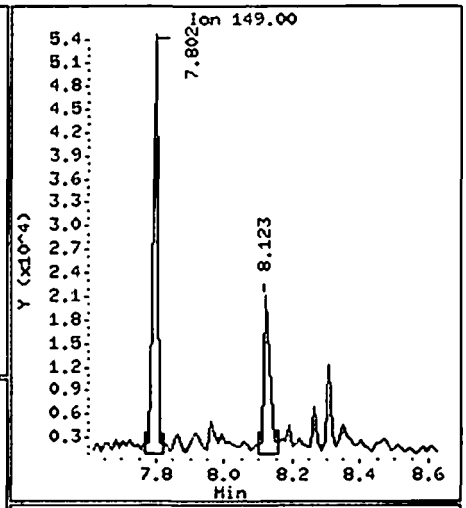
70 Di-n-butylphthalate Concentration: 1.0 ug/L

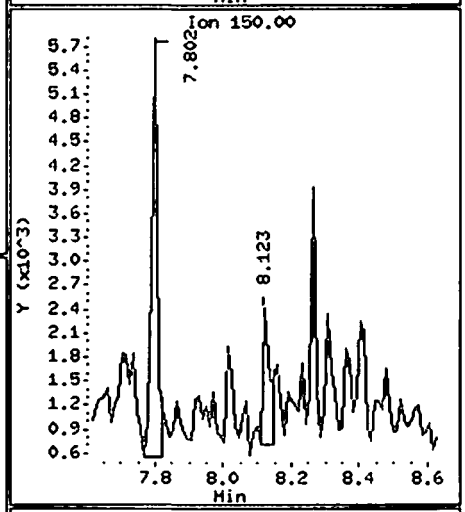


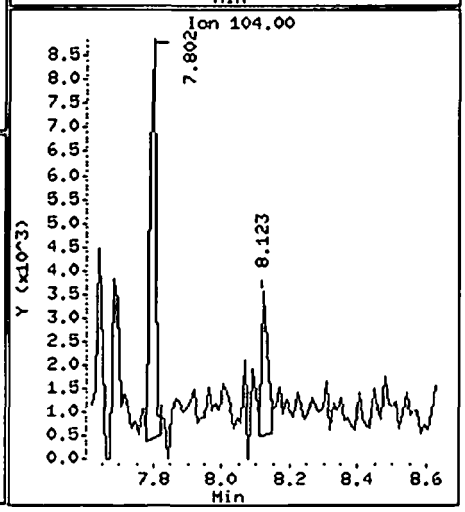












Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

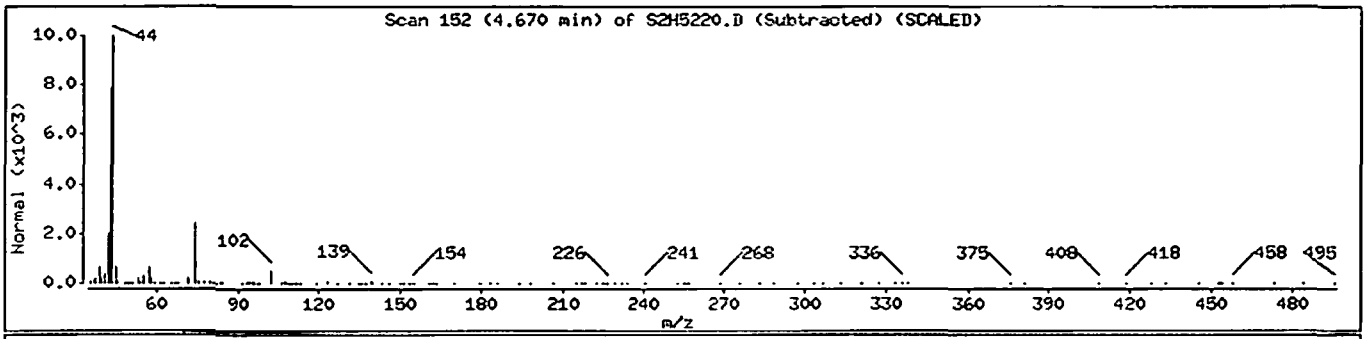
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

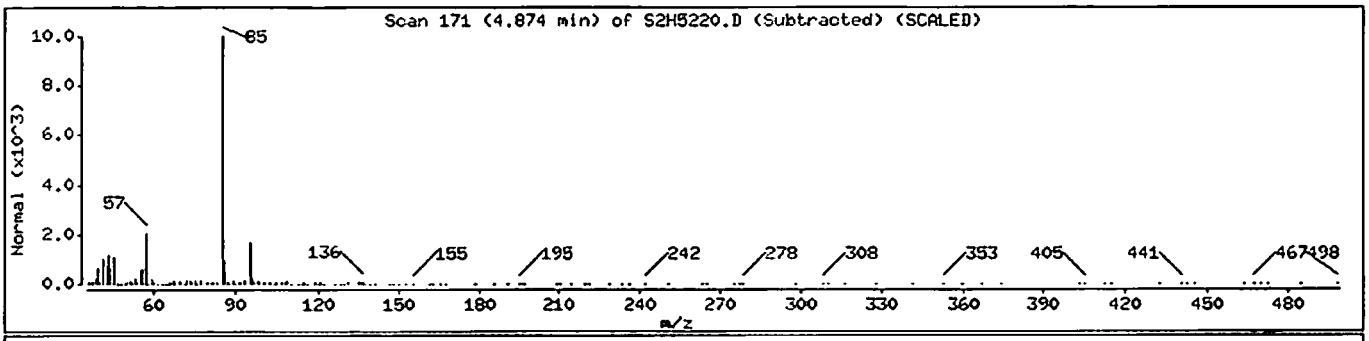
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILHS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

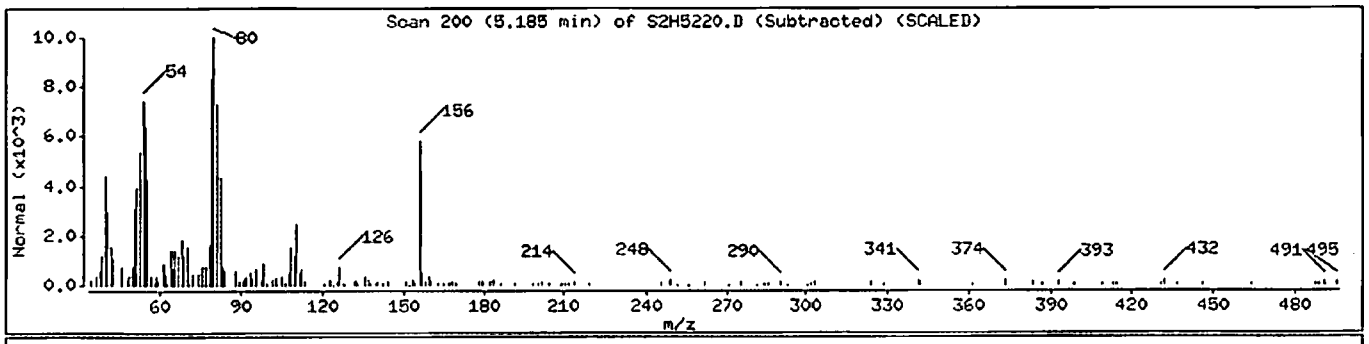
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

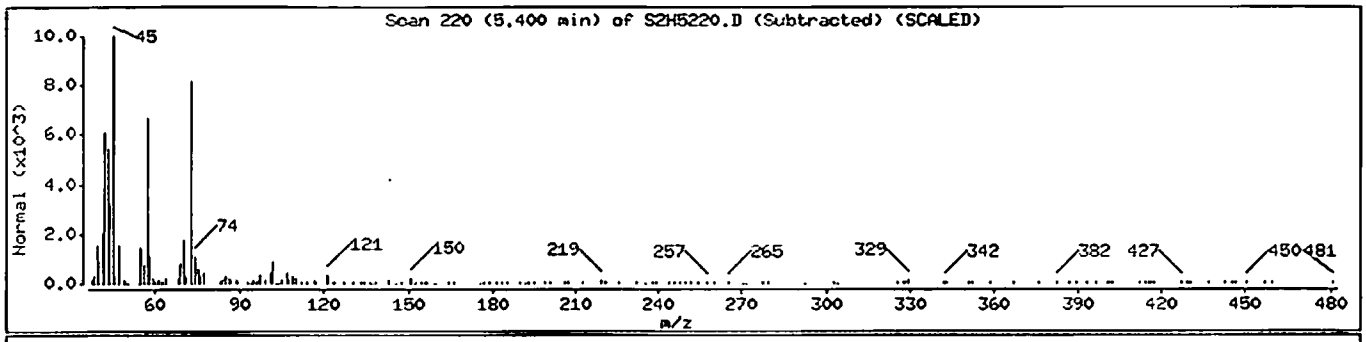
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

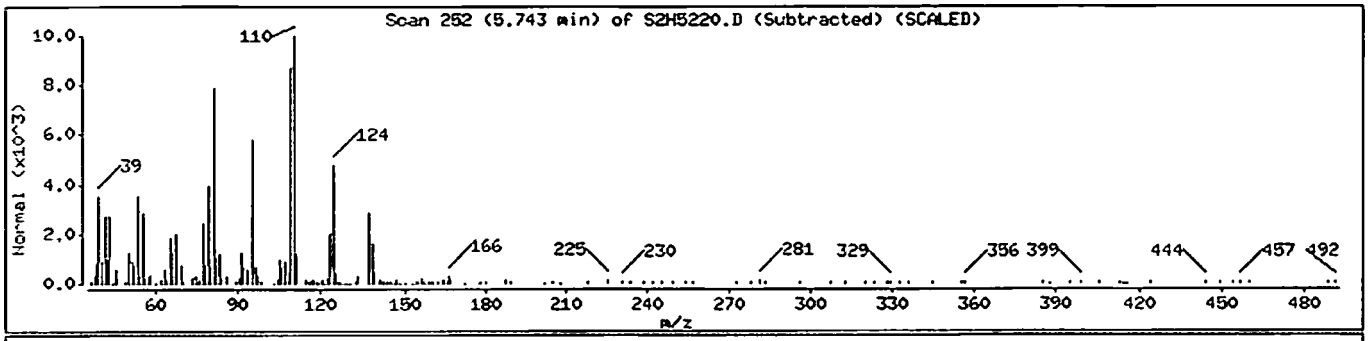
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

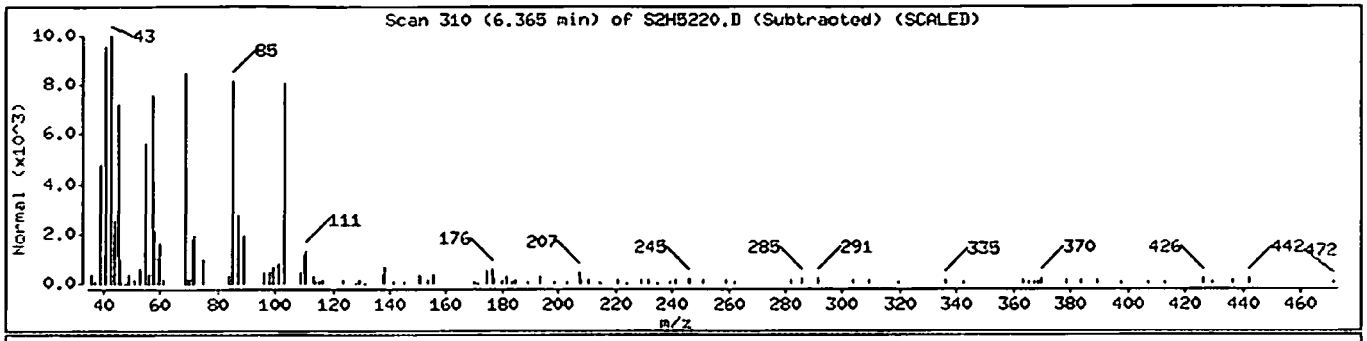
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,.62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

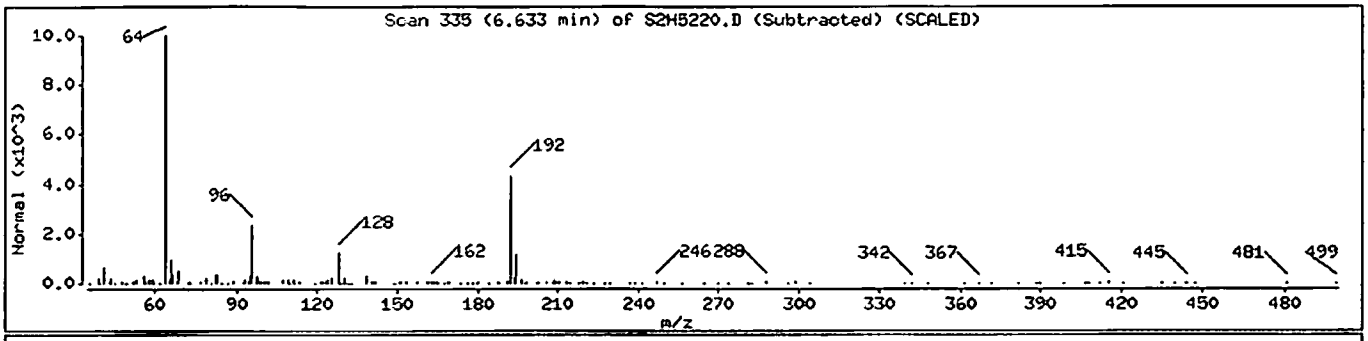
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

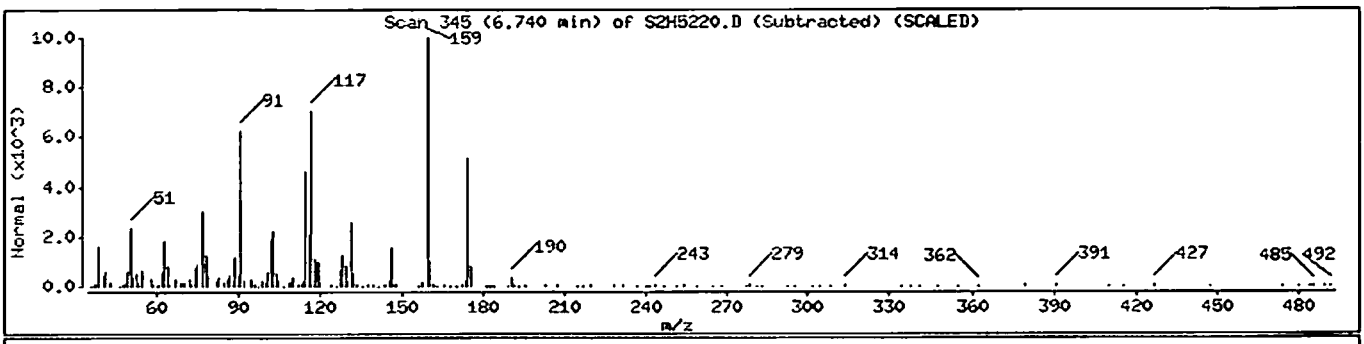
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIHS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

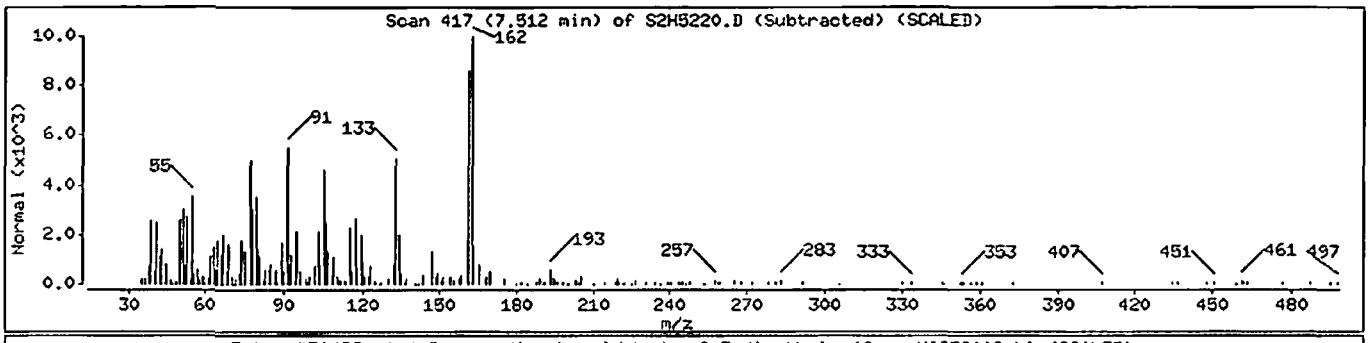
Client ID: H30Y6 Instrument: S2.i

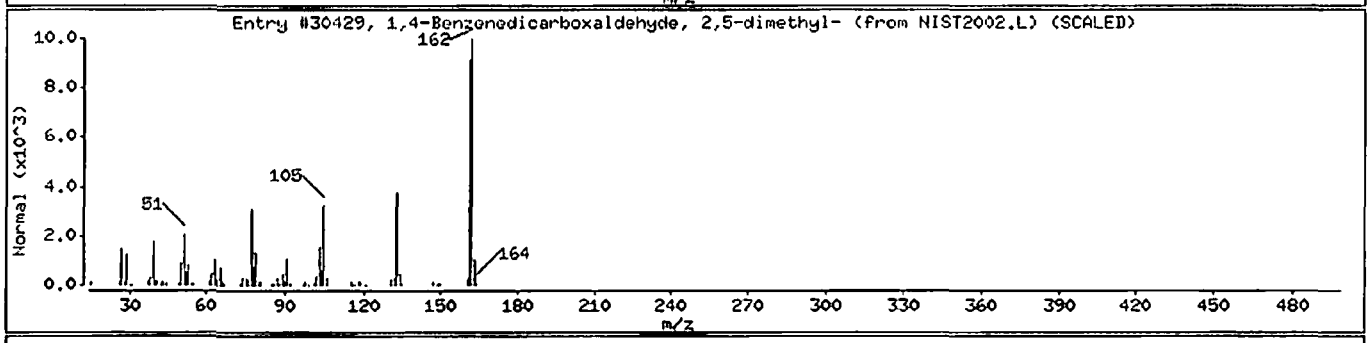
Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIHS

Column phase: RXI-5SILMS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Benzenedicarboxaldehyde, 2,5-dimethy	7044-92-0	NIST2002.L	30429	90	C10H10O2	162





Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

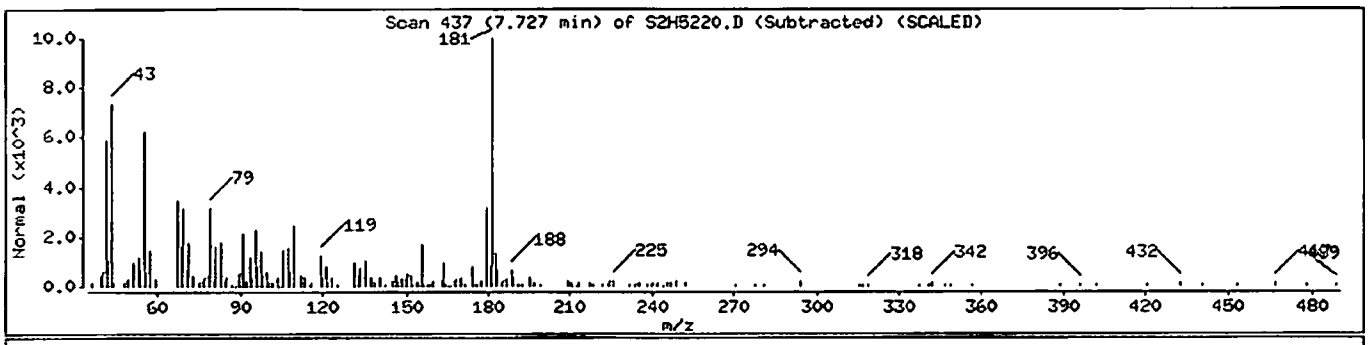
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

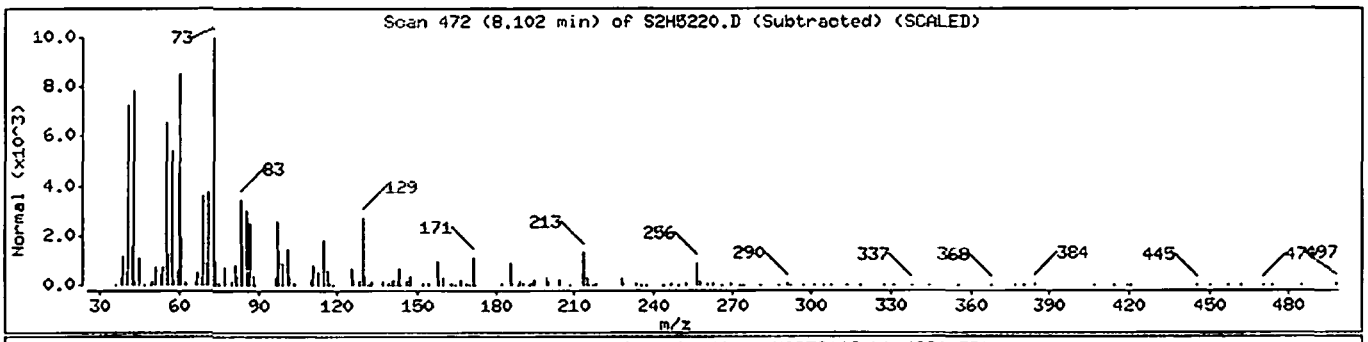
Client ID: H30Y6 Instrument: S2.i

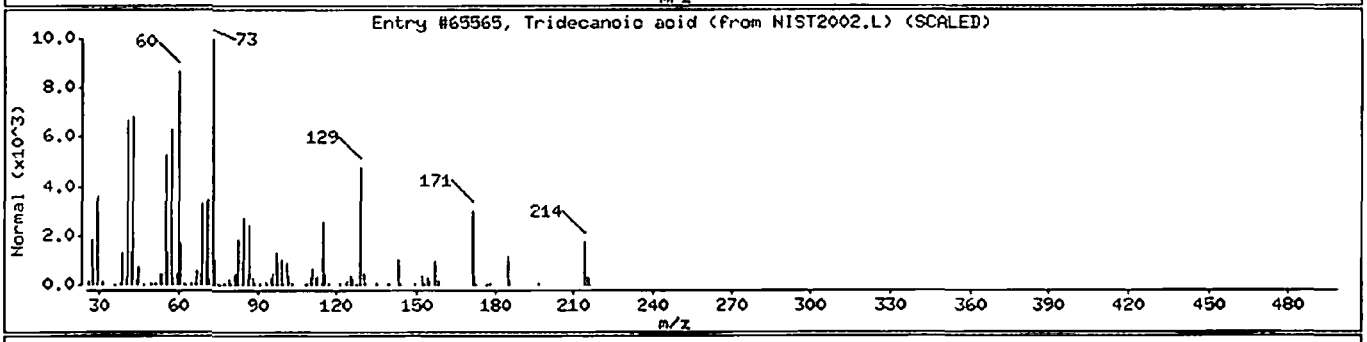
Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIHS

Column phase: RXI-5SILMS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecanoic acid	638-53-9	NIST2002.L	65565	93	C13H26O2	214





Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

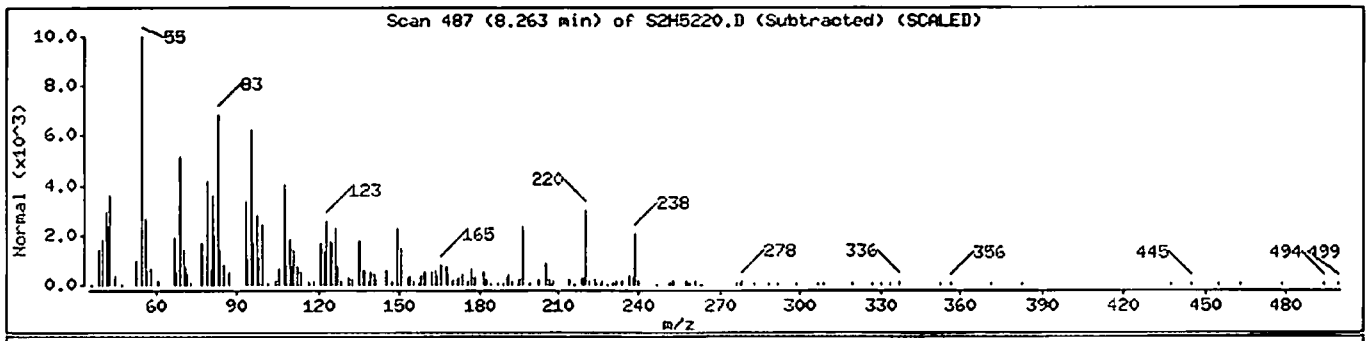
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

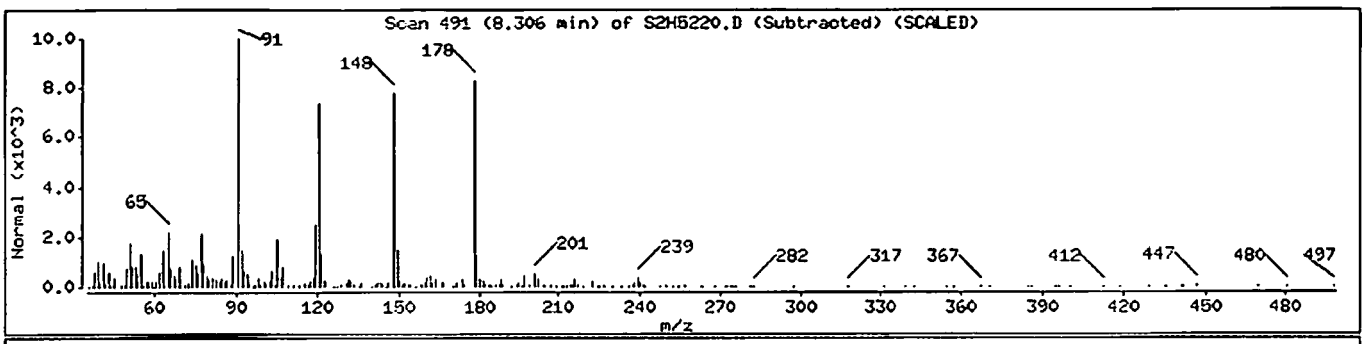
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

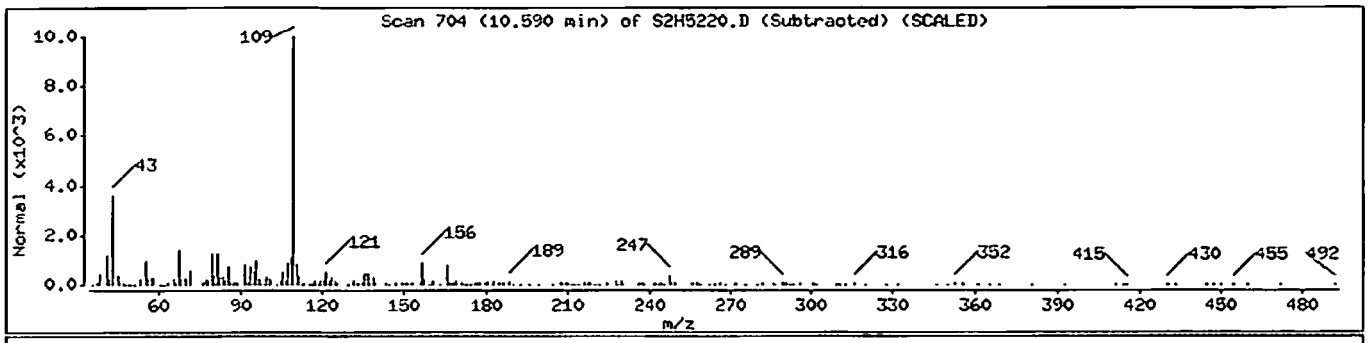
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

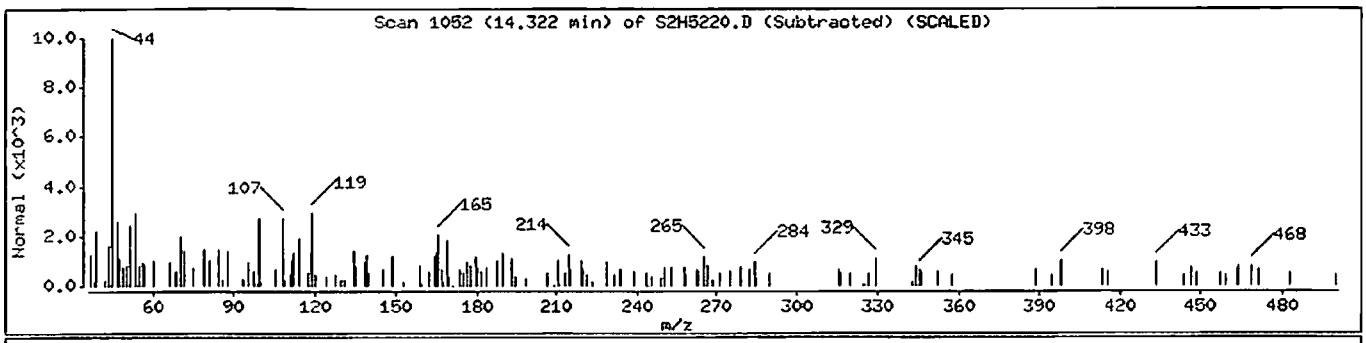
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5220.D

Date : 03-NOV-2011 22:10

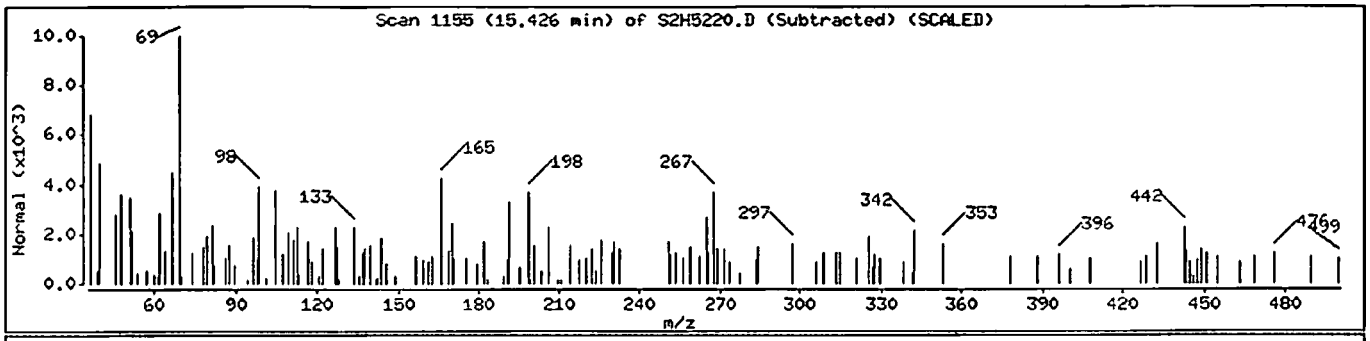
Client ID: H30Y6 Instrument: S2.i

Sample Info: K2200-18B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

H3026

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-19B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5221.D

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

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/02/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/03/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

SOM01.2 (6/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

H30Z6

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-19B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5221.D

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

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/02/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/03/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine 1	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

(1) Cannot be separated from Diphenylamine

SOM01.2 (6/2007)

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

H30Z6

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-19B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5221.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/02/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/03/2011

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

CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.413	2.5	J
02		Unknown-02	4.670	9.6	J
03		Unknown-03	5.185	2.8	J
04		Unknown-04	5.399	7.5	J
05		Unknown-05	5.742	7.4	J
06		Unknown-06	6.107	2.6	J
07		Unknown-07	6.214	4.2	J
08		Unknown-08	6.354	4.7	J
09	57-10-3	n-Hexadecanoic acid	8.102	5.7	NJ
10		Unknown-09	9.506	2.6	J
11		Unknown-10	10.632	7.6	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D
Report Date: 07-Nov-2011 14:03

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5221.D
Lab Smp Id: K2200-19B Client Smp ID: H30Z6
Inj Date : 03-NOV-2011 22:31
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : K2200-19B,,62636,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_SOM.m
Meth Date : 07-Nov-2011 14:01 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 2 Phenol-d5	71	3.565	3.565	(0.917)	226749	52.8883	26
$ 4 bis(2-Chloroethyl)ether-d8	67	3.619	3.619	(0.931)	341233	57.7595	29
$ 6 2-Chlorophenol-d4	132	3.694	3.694	(0.950)	208171	56.1290	28
* 8 1,4-Dichlorobenzene-d4	152	3.887	3.887	(1.000)	136149	40.0000	(Q)
$ 11 4-Methylphenol-d8	113	4.198	4.198	(1.080)	382781	65.8556	33
$ 16 Nitrobenzene-d5	128	4.348	4.348	(0.879)	118292	60.6016	30
$ 19 2-Nitrophenol-d4	143	4.616	4.616	(0.933)	132421	61.4528	31
$ 23 2,4-Dichlorophenol-d3	165	4.820	4.820	(0.974)	255471	64.9445	32
* 25 Naphthalene-d8	136	4.948	4.948	(1.000)	374816	40.0000	
$ 27 4-Chloroaniline-d4	131	5.002	5.002	(1.011)	145373	41.6211	21(Q)
$ 40 Dimethylphthalate-d6	166	6.171	6.171	(0.962)	712201	67.7242	34
$ 43 Acenaphthylene-d8	160	6.289	6.289	(0.980)	801947	58.6429	29
* 46 Acenaphthene-d10	164	6.417	6.418	(1.000)	286014	40.0000	
$ 49 4-Nitrophenol-d4	143	6.514	6.503	(1.015)	81147	53.5440	27
$ 54 Fluorene-d10	176	6.846	6.847	(1.067)	571112	59.1220	30
$ 58 4,6-Dinitro-2-methylphenol-d2	200	6.900	6.900	(0.903)	125590	71.8473	36(Q)
* 65 Phenanthrene-d10	188	7.640	7.640	(1.000)	447953	40.0000	
$ 67 Anthracene-d10	188	7.694	7.694	(1.007)	820336	64.1092	32
$ 72 Pyrene-d10	212	8.830	8.820	(0.896)	657120	71.3118	36
* 77 Chrysene-d12	240	9.903	9.871	(1.000)	292510	40.0000	(QH)
$ 83 Benzo(a)pyrene-d12	264	11.179	11.147	(0.983)	207320	57.1717	29(H)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D
Report Date: 07-Nov-2011 14:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
* 85 Perylene-d12	264	11.275	11.233	(1.000)	147779	40.0000		(QH)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D
Report Date: 07-Nov-2011 14:03

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5221.D
Lab Smp Id: K2200-19B Client Smp ID: H30Z6
Inj Date : 03-NOV-2011 22:31
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : K2200-19B,,62636,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_SOM.m
Meth Date : 07-Nov-2011 14:01 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 8 1,4-Dichlorobenzene-d4	3.887	1205778	40.000
* 25 Naphthalene-d8	4.949	1266921	40.000
* 46 Acenaphthene-d10	6.418	1537131	40.000
* 65 Phenanthrene-d10	7.640	1280301	40.000
* 77 Chrysene-d12	9.903	821077	40.000
* 85 Perylene-d12	11.276	366889	40.000

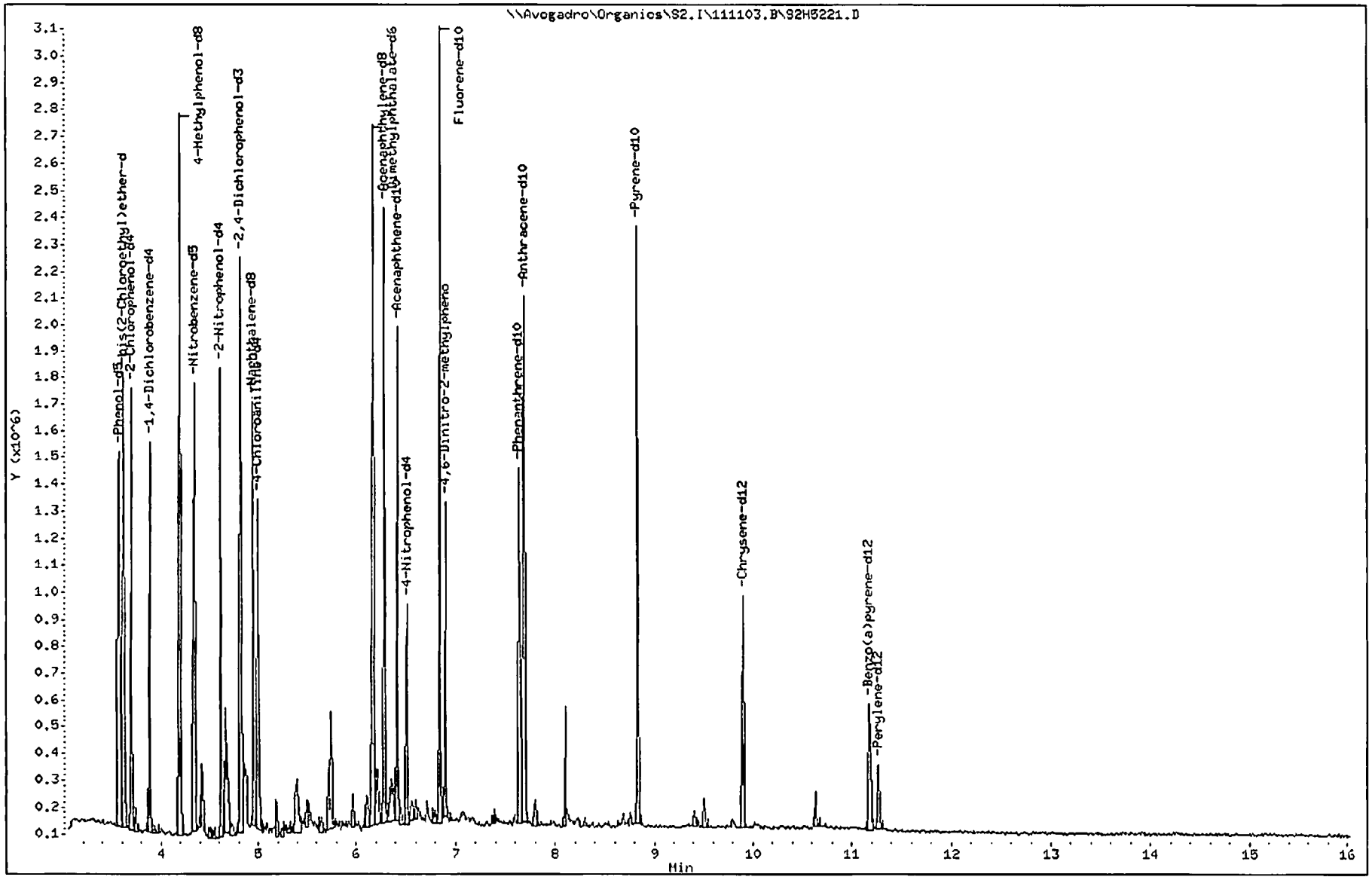
		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
4.413	150658	4.99785156	2.5	0		0	8
Unknown				CAS #:			
4.670	609076	19.2301099	9.6	0		0	25

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D
Report Date: 07-Nov-2011 14:03

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.185	180312	5.69292345	2.8	0		0	25
Unknown				CAS #:			
5.399	473186	14.9397172	7.5	0		0	25
Unknown				CAS #:			
5.742	568135	14.7842976	7.4	0		0	46
Unknown				CAS #:			
6.107	197392	5.13662504	2.6	0		0	46
Unknown				CAS #:			
6.214	322719	8.39795880	4.2	0		0	46
Unknown				CAS #:			
6.354	362251	9.42666571	4.7	0		0	46
n-Hexadecanoic acid				CAS #: 57-10-3			
8.102	362464	11.3243246	5.7	96	NIST2002.L	92227	65
Unknown				CAS #:			
9.506	105502	5.13967867	2.6	0		0	77
Unknown				CAS #:			
10.632	139563	15.2158010	7.6	0		0	85

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D
Date : 03-NOV-2011 22:31
Client ID: H3OZ6
Sample Info: K2200-19B,,62636,,
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC: LIMS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

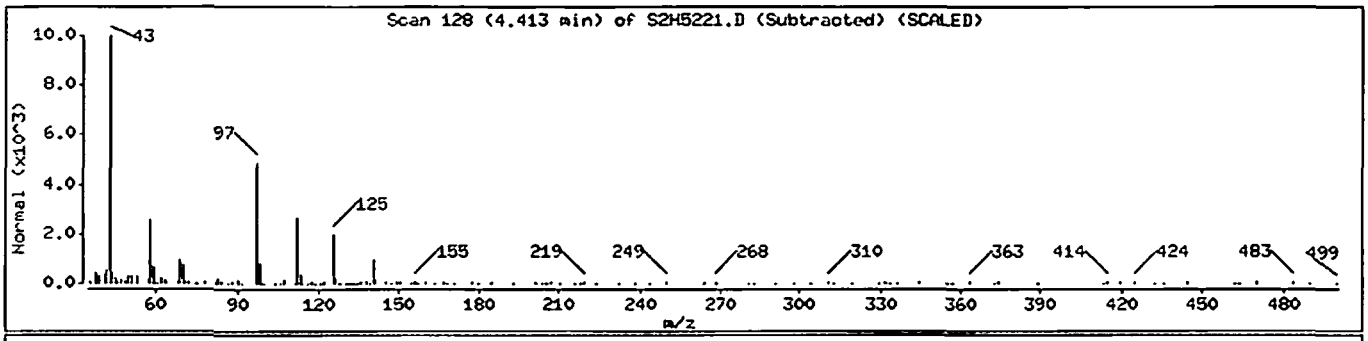
Client ID: H3026 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

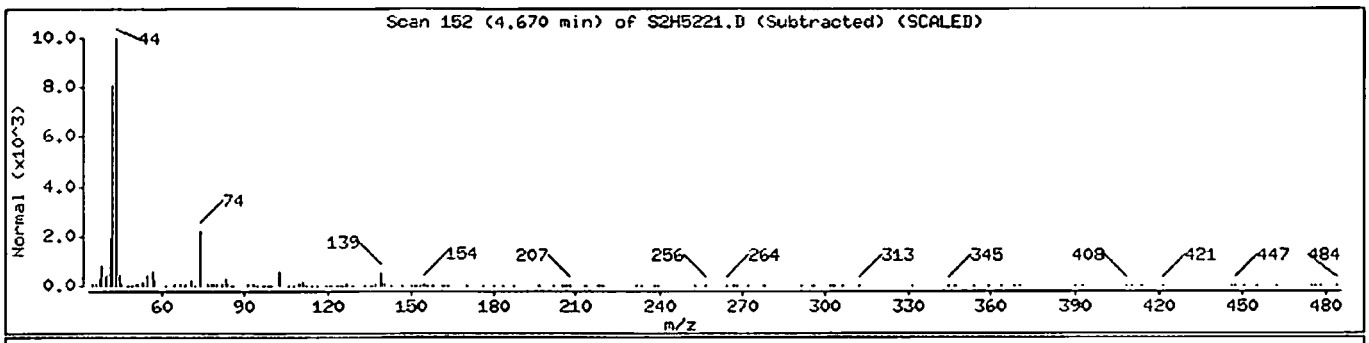
Client ID: H3OZ6 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

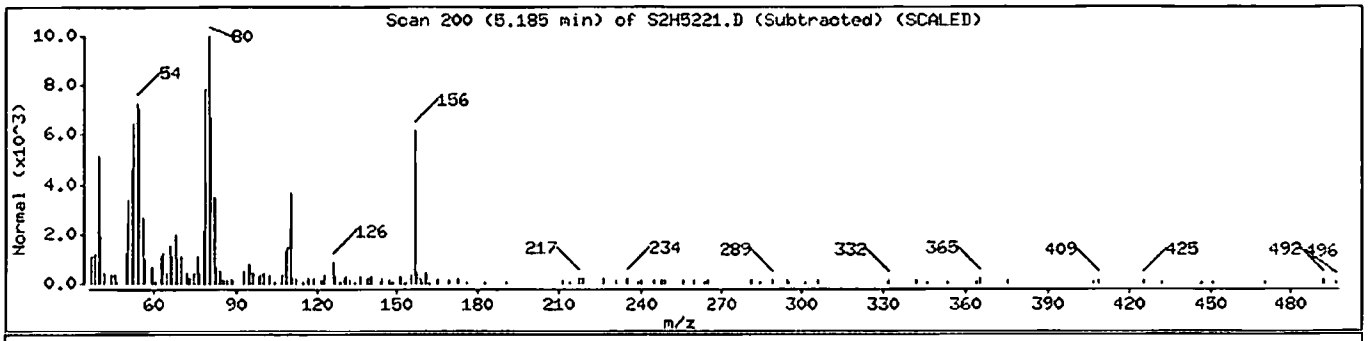
Client ID: H3OZ6 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

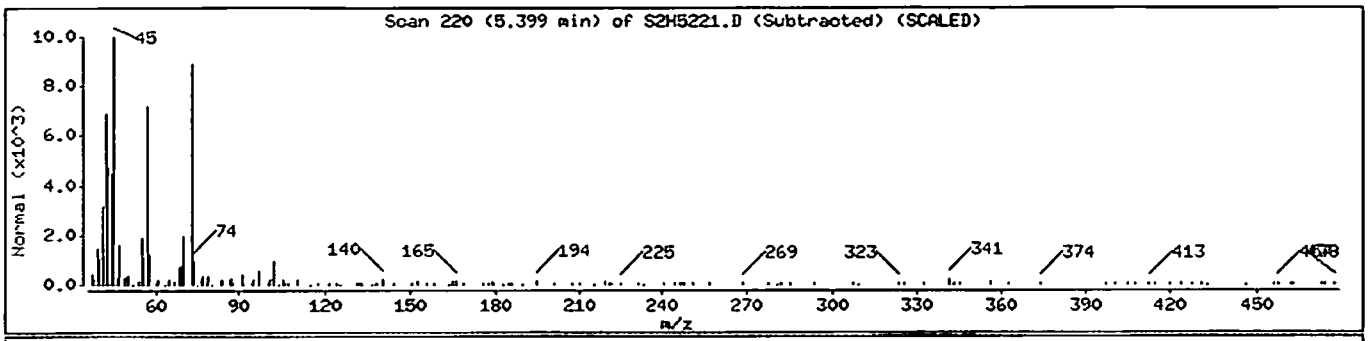
Client ID: H3OZ6 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

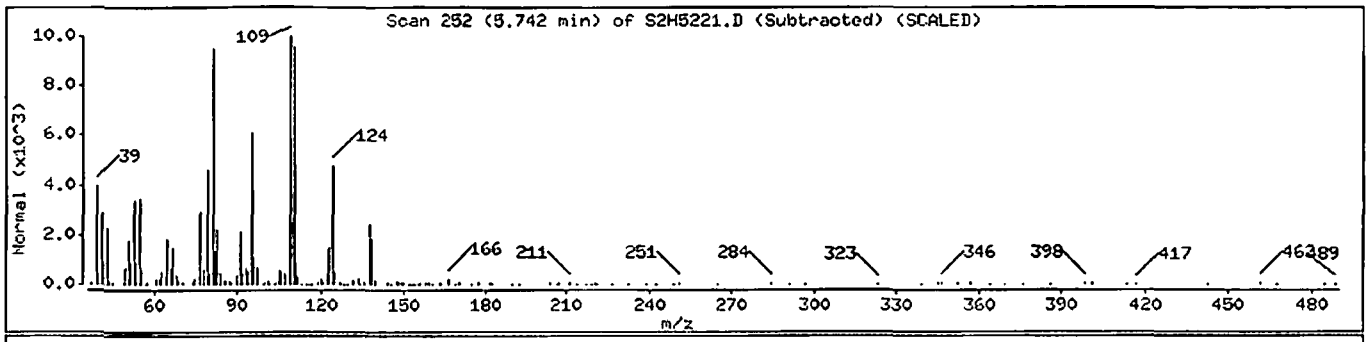
Client ID: H3OZ6 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIHS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

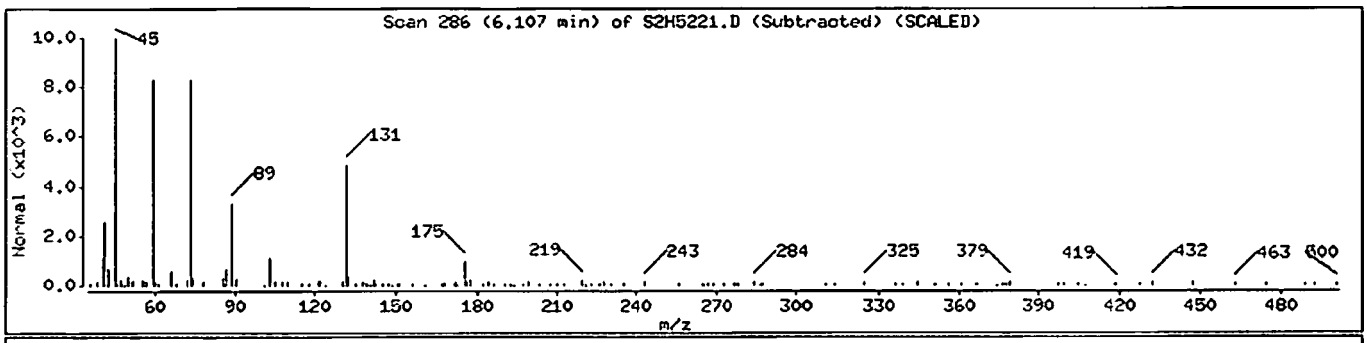
Client ID: H3OZ6 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

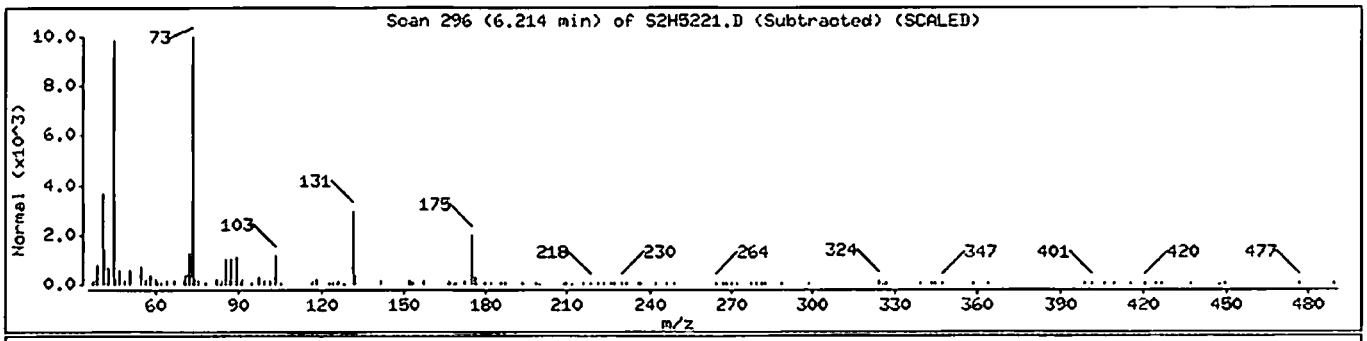
Client ID: H3OZ6 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

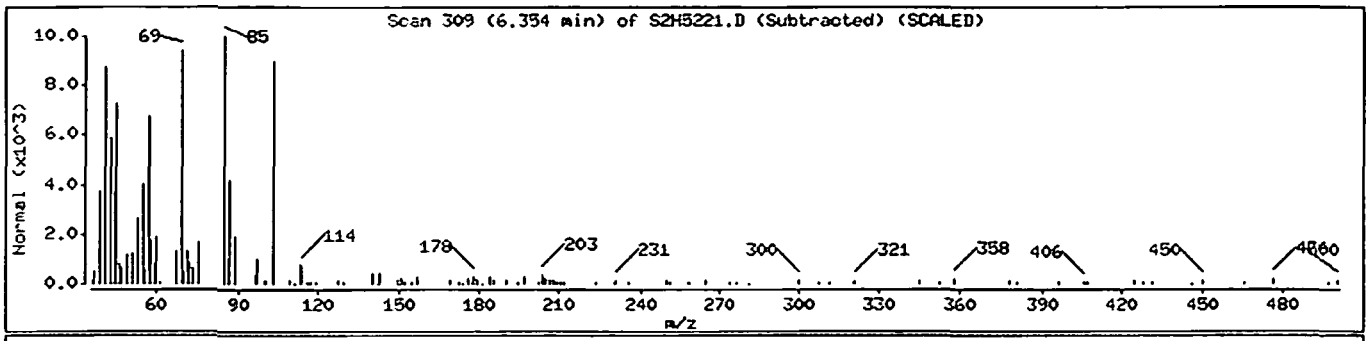
Client ID: H3026 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIHS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

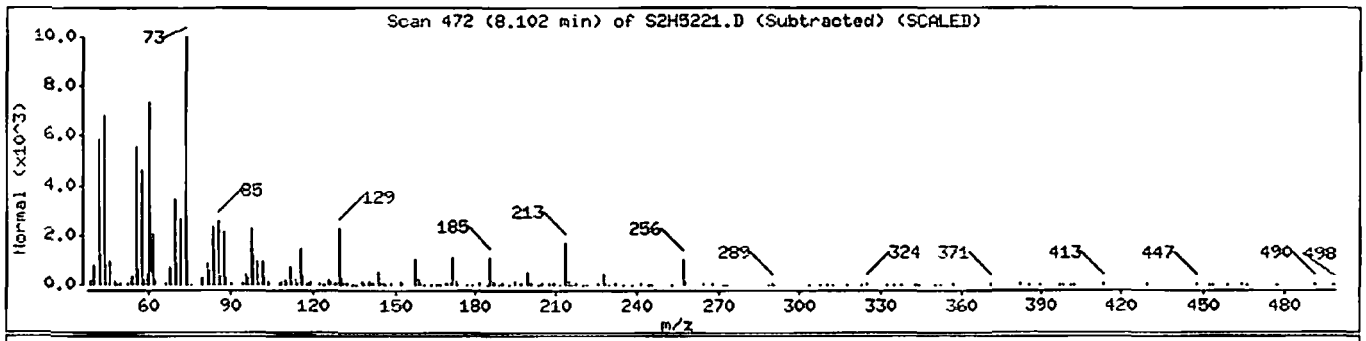
Client ID: H3026 Instrument: S2.i

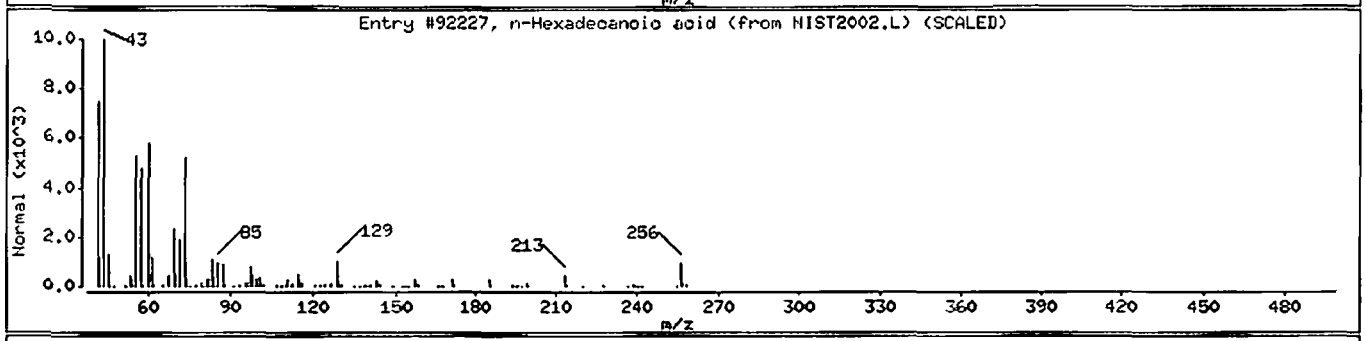
Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
n-Hexadecanoic acid	57-10-3	NIST2002.L	92227	96	C16H32O2	256





Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

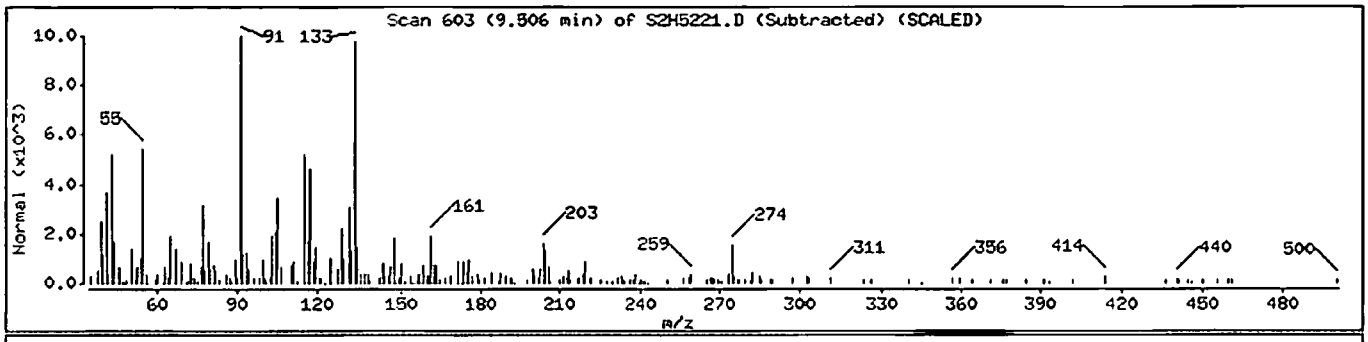
Client ID: H3026 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5221.D

Date : 03-NOV-2011 22:31

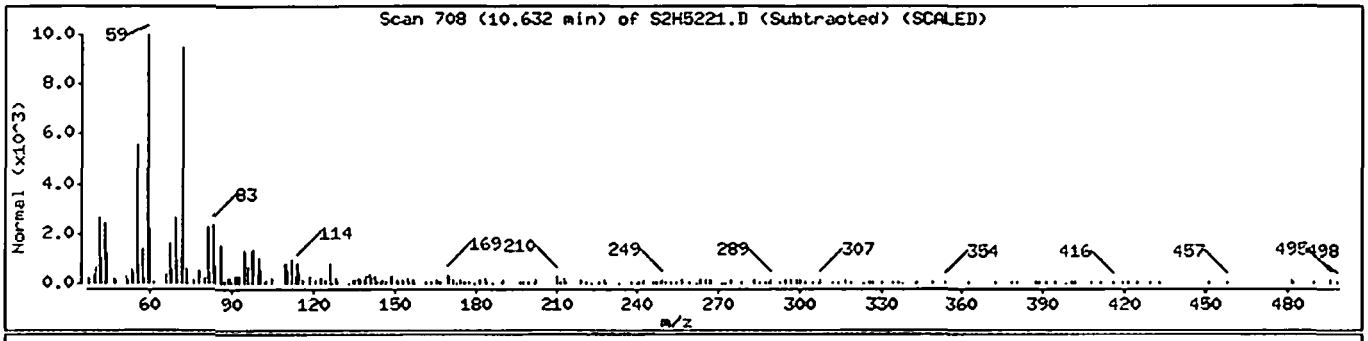
Client ID: H3026 Instrument: S2.i

Sample Info: K2200-19B,,62636,,

Volume Injected (uL): 2.0 Operator: SRC: LIMS

Column phase: RXI-5SILMS Column diameter: 0.25

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



6E - FORM VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date(s): 10/25/2011 10/25/2011

Calibration Time(s): 11:35 13:07

LAB FILE ID: RRF005 = S2H5054.D RRF010 = S2H5056.D

RRF020 = S2H5053C.D RRF040 = S2H5057.D RRF080 = S2H5055.D

COMPOUND	RRF005	RRF010	RRF020	RRF040	RRF080	$\overline{RRF}$	%RSD
Benzaldehyde	2.238	2.088	1.996	1.799	1.697	1.964	11.1
Phenol	3.264	3.126	3.243	3.654	3.986	3.455	10.4
Bis(2-chloroethyl)ether	2.496	2.382	2.380	2.659	2.778	2.539	6.9
2-Chlorophenol	1.116	1.069	1.027	1.148	1.244	1.121	7.4
2-Methylphenol	1.812	1.713	1.823	1.969	2.165	1.896	9.3
2,2'-Oxybis(1-chloropropane)	2.580	2.510	2.457	2.602	2.681	2.566	3.3
Acetophenone	3.194	3.056	3.031	3.339	3.732	3.271	8.7
4-Methylphenol	1.714	1.624	1.887	2.101	2.386	1.942	15.8
N-Nitroso-di-n-propylamine	1.539	1.455	1.517	1.645	1.742	1.580	7.2
Hexachloroethane	0.886	0.841	0.848	0.887	0.897	0.872	2.9
Nitrobenzene	1.014	1.004	1.032	1.102	1.065	1.043	3.9
Isophorone	1.766	1.706	1.680	1.877	1.878	1.782	5.2
2-Nitrophenol	0.230	0.228	0.209	0.234	0.228	0.226	4.4
2,4-Dimethylphenol	0.741	0.729	0.788	0.833	0.834	0.785	6.3
Bis(2-chloroethoxy)methane	0.926	0.963	0.980	1.050	1.041	0.992	5.3
2,4-Dichlorophenol	0.373	0.359	0.373	0.412	0.415	0.386	6.6
Naphthalene	1.004	1.023	1.032	1.025	1.064	1.030	2.1
4-Chloroaniline	0.394	0.412	0.382	0.436	0.440	0.413	6.1
Hexachlorobutadiene	0.285	0.303	0.268	0.292	0.287	0.287	4.4
Caprolactam	0.134	0.143	0.147	0.174	0.171	0.154	11.5
4-Chloro-3-methylphenol	0.596	0.532	0.618	0.680	0.701	0.625	10.8
2-Methylnaphthalene	0.705	0.674	0.679	0.725	0.737	0.704	4.0
Hexachlorocyclopentadiene	0.374	0.460	0.429	0.492	0.495	0.450	11.1
2,4,6-Trichlorophenol	0.486	0.549	0.410	0.458	0.566	0.494	13.0
2,4,5-Trichlorophenol	0.470	0.494	0.471	0.518	0.588	0.508	9.6
1,1'-Biphenyl	1.420	1.359	1.411	1.420	1.462	1.414	2.6
2-Chloronaphthalene	1.260	1.314	1.169	1.190	1.383	1.263	7.0
2-Nitroaniline		0.582	0.578	0.592	0.673	0.606	7.4
Dimethylphthalate	1.378	1.275	1.397	1.410	1.392	1.370	4.0
2,6-Dinitrotoluene	0.342	0.329	0.303	0.341	0.378	0.339	8.0
Acenaphthylene	1.744	1.679	1.703	1.746	1.836	1.742	3.4
3-Nitroaniline		0.212	0.210	0.237	0.238	0.224	6.7
Acenaphthene	1.160	1.139	1.003	1.097	1.239	1.128	7.7
2,4-Dinitrophenol		0.105	0.115	0.185	0.215	0.155	34.7
4-Nitrophenol		0.345	0.386	0.437	0.472	0.410	13.7
Dibenzofuran	1.717	1.689	1.524	1.633	1.721	1.657	5.0

6F - FORM VI SV-2

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date(s): 10/25/2011 10/25/2011

Calibration Time(s): 11:35 13:07

LAB FILE ID: RRF005 = S2H5054.D RRF010 = S2H5056.D

RRF020 = S2H5053C.D RRF040 = S2H5057.D RRF080 = S2H5055.D

COMPOUND	RRF005	RRF010	RRF020	RRF040	RRF080	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.416	0.417	0.419	0.438	0.462	0.430	4.6
Diethylphthalate	1.448	1.297	1.115	1.284	1.294	1.288	9.2
Fluorene	1.349	1.262	1.269	1.409	1.472	1.352	6.7
4-Chlorophenyl-phenylether	0.756	0.694	0.685	0.725	0.736	0.719	4.1
4-Nitroaniline		0.258	0.243	0.253	0.232	0.246	4.6
4,6-Dinitro-2-methylphenol		0.117	0.151	0.165	0.177	0.152	17.1
N-Nitrosodiphenylamine 1	0.603	0.627	0.561	0.609	0.650	0.610	5.4
1,2,4,5-Tetrachlorobenzene	1.521	1.696	1.412	1.604	1.816	1.610	9.7
4-Bromophenyl-phenylether	0.224	0.221	0.199	0.214	0.225	0.217	4.9
Hexachlorobenzene	0.244	0.236	0.210	0.228	0.235	0.231	5.4
Atrazine	0.210	0.216	0.207	0.247	0.220	0.220	7.2
Pentachlorophenol		0.087	0.098	0.134	0.131	0.113	20.8
Phenanthrene	1.175	1.105	1.029	1.137	1.168	1.123	5.3
Anthracene	1.137	1.140	1.057	1.171	1.204	1.142	4.8
Carbazole	0.906	0.931	0.863	0.968	0.947	0.923	4.4
Di-n-butylphthalate	0.920	1.030	1.044	1.064	0.899	0.991	7.7
Fluoranthene	1.199	1.151	1.112	1.254	1.062	1.156	6.4
Pyrene	1.452	1.426	1.456	1.572	2.116	1.604	18.2
Butylbenzylphthalate	0.418	0.467	0.490	0.527	0.581	0.497	12.4
3,3'-Dichlorobenzidine	0.256	0.297	0.310	0.332	0.289	0.297	9.5
Benzo(a)anthracene	1.259	1.159	1.085	1.205	1.227	1.187	5.7
Chrysene	1.034	1.048	1.058	1.050	1.044	1.047	0.8
Bis(2-ethylhexyl)phthalate	0.568	0.598	0.596	0.628	0.647	0.608	5.0
Di-n-octylphthalate	1.199	1.313	1.343	1.605	1.819	1.456	17.3
Benzo(b)fluoranthene	1.201	1.200	1.227	1.487	1.375	1.298	9.9
Benzo(k)fluoranthene	1.609	1.468	1.328	1.479	1.620	1.501	8.0
Benzo(a)pyrene	1.137	1.104	1.073	1.224	1.163	1.140	5.1
Indeno(1,2,3-cd)pyrene	0.895	0.903	0.825	0.907	0.863	0.878	3.9
Dibenzo(a,h)anthracene	0.740	0.743	0.670	0.760	0.704	0.723	5.0
Benzo(g,h,i)perylene	0.734	0.778	0.666	0.760	0.681	0.724	6.7
2,3,4,6-Tetrachlorophenol	0.350	0.314	0.316	0.373	0.389	0.348	9.6

(1) Cannot be separated from Diphenylamine

6G - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date(s): 10/25/2011 10/25/2011

Calibration Time(s): 11:35 13:07

LAB FILE ID: RRF005 = S2H5054.D RRF010 = S2H5056.D

RRF020 = S2H5053C.D RRF040 = S2H5057.D RRF080 = S2H5055.D

COMPOUND	RRF005	RRF010	RRF020	RRF040	RRF080	$\overline{RRF}$	%RSD
Phenol-d5	1.119	1.199	1.190	1.325	1.463	1.260	10.8
Bis(2-chloroethyl)ether-d8	1.729	1.678	1.652	1.774	1.846	1.736	4.5
2-Chlorophenol-d4	1.053	1.045	1.043	1.088	1.219	1.090	6.8
4-Methylphenol-d8	1.514	1.507	1.637	1.859	2.021	1.708	13.2
Nitrobenzene-d5	0.232	0.204	0.190	0.205	0.212	0.208	7.4
2-Nitrophenol-d4	0.214	0.212	0.229	0.250	0.244	0.230	7.4
2,4-Dichlorophenol-d3	0.378	0.399	0.417	0.448	0.457	0.420	7.9
4-Chloroaniline-d4	0.397	0.370	0.330	0.395	0.371	0.373	7.2
Dimethylphthalate-d6	1.405	1.403	1.441	1.557	1.548	1.471	5.2
Acenaphthylene-d8	1.920	1.918	1.803	1.882	2.039	1.913	4.5
4-Nitrophenol-d4		0.181	0.200	0.229	0.239	0.212	12.6
Fluorene-d10	1.387	1.332	1.283	1.356	1.397	1.351	3.4
4,6-Dinitro-2-methylphenol-d2		0.132	0.142	0.167	0.184	0.156	15.1
Anthracene-d10	1.157	1.104	1.133	1.182	1.137	1.143	2.5
Pyrene-d10	1.190	1.152	1.087	1.171	1.700	1.260	19.8
Benzo(a)pyrene-d12	0.972	0.972	0.944	1.039	0.980	0.982	3.6

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5053C.D
Report Date: 26-Oct-2011 09:59

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111025.B\S2H5053C.D
Lab Smp Id: SSTD0202W Client Smp ID: SSTD0202W
Inj Date : 25-OCT-2011 11:35
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0202W,SSTD0202W
Misc Info : 2,3
Comment :
Method : \\Avogadro\Organics\S2.I\111025.B\S2_SOM.m
Meth Date : 26-Oct-2011 09:59 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	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)
	1 Benzaldehyde	77	3.712	3.712	(0.911)	212664	40.0000	41
S	2 Phenol-d5	71	3.754	3.754	(0.921)	126811	40.0000	38
	3 Phenol	94	3.765	3.765	(0.924)	345410	40.0000	38
S	4 bis(2-Chloroethyl)ether-d8	67	3.797	3.797	(0.932)	175972	40.0000	38
	5 bis(2-Chloroethyl)ether	93	3.840	3.840	(0.942)	253570	40.0000	38
S	6 2-Chlorophenol-d4	132	3.883	3.883	(0.953)	111135	40.0000	38
	7 2-Chlorophenol	128	3.894	3.894	(0.955)	109408	40.0000	37
*	8 1,4-Dichlorobenzene-d4	152	4.076	4.076	(1.000)	106521	40.0000	(Q)
	9 2-Methylphenol	108	4.269	4.269	(1.047)	194214	40.0000	38
	10 2,2'-oxybis(1-Chloropropane)	45	4.291	4.291	(1.053)	261761	40.0000	39
S	11 4-Methylphenol-d8	113	4.376	4.376	(1.074)	174423	40.0000	38
	13 Acetophenone	105	4.398	4.398	(1.079)	322879	40.0000	37
	14 N-Nitroso-di-n-propylamine	70	4.398	4.398	(1.079)	161634	40.0000	38(Q)
	12 4-Methylphenol	108	4.398	4.398	(1.079)	201003	40.0000	39
	15 Hexachloroethane	117	4.505	4.505	(1.105)	90337	40.0000	39(Q)
S	16 Nitrobenzene-d5	128	4.527	4.527	(0.881)	57076	40.0000	36
	17 Nitrobenzene	77	4.548	4.548	(0.885)	310502	40.0000	40
	18 Isophorone	82	4.741	4.741	(0.923)	505668	40.0000	38
S	19 2-Nitrophenol-d4	143	4.805	4.805	(0.935)	68900	40.0000	40
	20 2-Nitrophenol	139	4.816	4.816	(0.937)	62769	40.0000	37
	21 2,4-Dimethylphenol	107	4.848	4.848	(0.944)	237161	40.0000	40(Q)

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5053C.D
Report Date: 26-Oct-2011 09:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22 bis(2-Chloroethoxy)methane	93	4.923	4.923	(0.958)	294797	40.0000	40
$	23 2,4-Dichlorophenol-d3	165	5.009	5.009	(0.975)	125497	40.0000	40
	24 2,4-Dichlorophenol	162	5.020	5.020	(0.977)	112143	40.0000	39
*	25 Naphthalene-d8	136	5.138	5.138	(1.000)	300917	40.0000	
	26 Naphthalene	128	5.159	5.159	(1.004)	310657	40.0000	40
$	27 4-Chloroaniline-d4	131	5.191	5.191	(1.010)	99425	40.0000	35(Q)
	28 4-Chloroaniline	127	5.191	5.191	(1.010)	115019	40.0000	37
	29 Hexachlorobutadiene	225	5.267	5.267	(1.025)	80580	40.0000	37
	30 Caprolactam	113	5.460	5.460	(1.063)	44349	40.0000	38
	31 4-Chloro-3-methylphenol	107	5.599	5.599	(1.090)	186082	40.0000	40
	32 2-Methylnaphthalene	142	5.738	5.738	(1.117)	204355	40.0000	39
	33 Hexachlorocyclopentadiene	237	5.878	5.878	(0.890)	88898	40.0000	38(Q)
	34 1,2,4,5-Tetrachlorobenzene	216	5.878	5.878	(0.890)	292425	40.0000	35
	35 2,4,6-Trichlorophenol	196	5.974	5.974	(0.904)	84990	40.0000	33
	36 2,4,5-Trichlorophenol	196	5.996	5.996	(0.907)	97633	40.0000	37
	37 1,1'-Biphenyl	154	6.124	6.124	(0.927)	292109	40.0000	40
	38 2-Chloronaphthalene	162	6.146	6.146	(0.930)	242079	40.0000	37
	39 2-Nitroaniline	65	6.221	6.221	(0.942)	119689	40.0000	38
$	40 Dimethylphthalate-d6	166	6.350	6.350	(0.961)	298307	40.0000	39
	41 Dimethylphthalate	163	6.371	6.371	(0.964)	289261	40.0000	41
	42 2,6-Dinitrotoluene	165	6.414	6.414	(0.971)	62729	40.0000	36
$	43 Acenaphthylene-d8	160	6.478	6.478	(0.981)	373422	40.0000	38
	44 Acenaphthylene	152	6.489	6.489	(0.982)	352578	40.0000	39
	45 3-Nitroaniline	138	6.553	6.553	(0.992)	43524	40.0000	37(Q)
*	46 Acenaphthene-d10	164	6.607	6.607	(1.000)	207073	40.0000	
	47 Acenaphthene	153	6.628	6.628	(1.003)	207719	40.0000	36
	48 2,4-Dinitrophenol	184	6.639	6.639	(1.005)	23834	40.0000	30(Q)
	52 Dibenzofuran	168	6.779	6.779	(1.026)	315518	40.0000	37
$	49 4-Nitrophenol-d4	143	6.682	6.682	(1.011)	41327	40.0000	38(Q)
	50 4-Nitrophenol	109	6.693	6.693	(1.013)	79876	40.0000	38
	51 2,4-Dinitrotoluene	165	6.757	6.757	(1.023)	86741	40.0000	39(Q)
	118 2,3,4,6-Tetrachlorophenol	232	6.875	6.875	(1.041)	65445	40.0000	36
	53 Diethylphthalate	149	6.950	6.950	(1.052)	230831	40.0000	35
$	54 Fluorene-d10	176	7.036	7.036	(1.065)	265573	40.0000	38
	56 Fluorene	166	7.057	7.057	(1.068)	262738	40.0000	38
	55 4-Chlorophenyl-phenylether	204	7.057	7.057	(1.068)	141928	40.0000	38
	57 4-Nitroaniline	138	7.068	7.068	(1.070)	50246	40.0000	39(Q)
$	58 4,6-Dinitro-2-methylphenol-d2	200	7.090	7.090	(0.904)	50456	40.0000	36(Q)
	59 4,6-Dinitro-2-methylphenol	198	7.090	7.090	(0.904)	53526	40.0000	40(Q)
	60 N-Nitrosodiphenylamine	169	7.154	7.154	(0.912)	198880	40.0000	37
	61 4-Bromophenyl-phenylether	248	7.465	7.465	(0.952)	70715	40.0000	37
	62 Hexachlorobenzene	284	7.529	7.529	(0.960)	74606	40.0000	37
	63 Atrazine	200	7.583	7.583	(0.967)	73499	40.0000	38
	64 Pentachlorophenol	266	7.679	7.679	(0.979)	34766	40.0000	35
*	65 Phenanthrene-d10	188	7.840	7.840	(1.000)	354560	40.0000	
	66 Phenanthrene	178	7.862	7.862	(1.003)	364758	40.0000	37
$	67 Anthracene-d10	188	7.883	7.883	(1.005)	401646	40.0000	40
	68 Anthracene	178	7.894	7.894	(1.007)	374852	40.0000	37
	117 Carbazole	167	8.022	8.022	(1.023)	305887	40.0000	37
	70 Di-n-butylphthalate	149	8.312	8.312	(1.060)	370152	40.0000	42
	71 Fluoranthene	202	8.859	8.859	(1.130)	394426	40.0000	39
$	72 Pyrene-d10	212	9.041	9.041	(0.890)	309917	40.0000	35
	73 Pyrene	202	9.063	9.063	(0.892)	414941	40.0000	36
	74 Butylbenzylphthalate	149	9.620	9.620	(0.947)	139765	40.0000	40

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5053C.D
Report Date: 26-Oct-2011 09:59

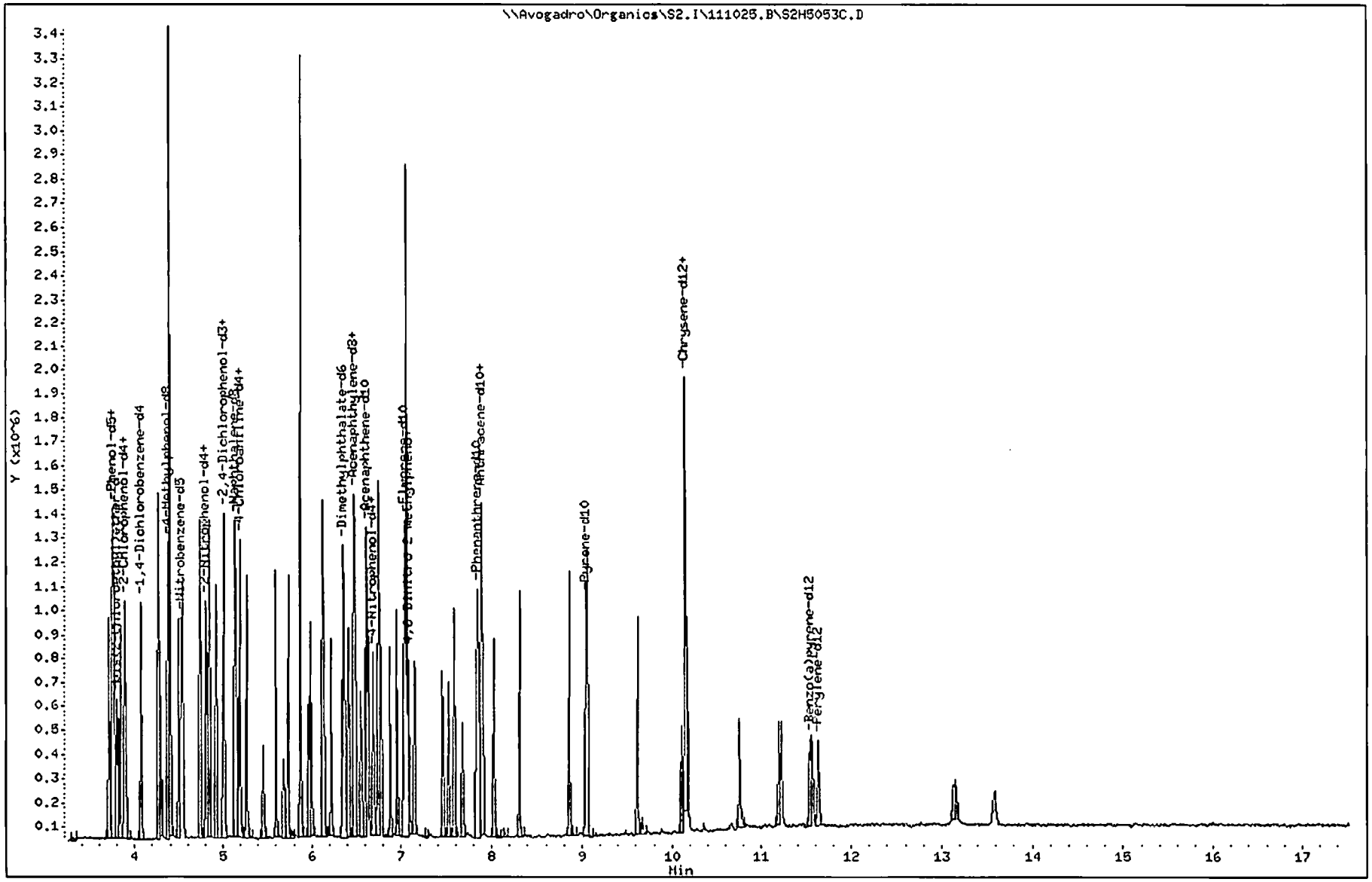
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
75 3,3'-Dichlorobenzidine	252	10.114	10.114	(0.996)	88348	40.0000	42
76 Benzo(a)anthracene	228	10.146	10.146	(0.999)	309195	40.0000	37
* 77 Chrysene-d12	240	10.156	10.156	(1.000)	285011	40.0000	(Q)
78 Chrysene	228	10.178	10.178	(1.002)	301594	40.0000	40
79 bis(2-Ethylhexyl)phthalate	149	10.146	10.146	(0.999)	169935	40.0000	39
80 Di-n-octylphthalate	149	10.757	10.757	(0.924)	252614	40.0000	37
81 Benzo(b)fluoranthene	252	11.197	11.197	(0.962)	230677	40.0000	38
82 Benzo(k)fluoranthene	252	11.218	11.218	(0.964)	249777	40.0000	35
$ 83 Benzo(a)pyrene-d12	264	11.540	11.540	(0.992)	177567	40.0000	38
84 Benzo(a)pyrene	252	11.572	11.572	(0.994)	201749	40.0000	38
* 85 Perylene-d12	264	11.636	11.636	(1.000)	188055	40.0000	
86 Indeno(1,2,3-cd)pyrene	276	13.127	13.127	(1.128)	155216	40.0000	38
87 Dibenzo(a,h)anthracene	278	13.159	13.159	(1.131)	126027	40.0000	37
88 Benzo(g,h,i)perylene	276	13.588	13.588	(1.168)	125220	40.0000	37

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5053C.D
Date : 25-OCT-2011 11:35
Client ID: SSTD0202W
Sample Info: SSTD0202W,SSTD0202W
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC:
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5054.D
Report Date: 26-Oct-2011 09:59

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111025.B\S2H5054.D
Lab Smp Id: SSTD0052W Client Smp ID: SSTD0052W
Inj Date : 25-OCT-2011 11:58
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0052W,SSTD0052W
Misc Info : 1,1
Comment :
Method : \\Avogadro\Organics\S2.I\111025.B\S2_SOM.m
Meth Date : 26-Oct-2011 09:59 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Benzaldehyde	77	3.701	3.712	(0.908)	45515	10.0000	11
S	2 Phenol-d5	71	3.744	3.754	(0.918)	22760	10.0000	8.9(Q)
	3 Phenol	94	3.755	3.765	(0.921)	66381	10.0000	9.4
S	4 bis(2-Chloroethyl)ether-d8	67	3.798	3.797	(0.932)	35163	10.0000	10
	5 bis(2-Chloroethyl)ether	93	3.841	3.840	(0.942)	50765	10.0000	9.8
S	6 2-Chlorophenol-d4	132	3.884	3.883	(0.953)	21416	10.0000	9.7
	7 2-Chlorophenol	128	3.894	3.894	(0.955)	22691	10.0000	10
*	8 1,4-Dichlorobenzene-d4	152	4.077	4.076	(1.000)	81345	40.0000	(Q)
	9 2-Methylphenol	108	4.270	4.269	(1.047)	36849	10.0000	9.6
	10 2,2'-oxybis(1-Chloropropane)	45	4.291	4.291	(1.053)	52469	10.0000	10
S	11 4-Methylphenol-d8	113	4.366	4.376	(1.071)	30786	10.0000	8.9
	13 Acetophenone	105	4.398	4.398	(1.079)	64947	10.0000	9.8
	14 N-Nitroso-di-n-propylamine	70	4.398	4.398	(1.079)	31300	10.0000	9.7(Q)
	12 4-Methylphenol	108	4.388	4.398	(1.076)	34863	10.0000	8.8
	15 Hexachloroethane	117	4.495	4.505	(1.103)	18023	10.0000	10(Q)
S	16 Nitrobenzene-d5	128	4.527	4.527	(0.881)	13404	10.0000	11(Q)
	17 Nitrobenzene	77	4.549	4.548	(0.885)	58616	10.0000	9.7
	18 Isophorone	82	4.742	4.741	(0.923)	102107	10.0000	9.9
S	19 2-Nitrophenol-d4	143	4.806	4.805	(0.935)	12398	10.0000	9.3(Q)
	20 2-Nitrophenol	139	4.817	4.816	(0.937)	13281	10.0000	10(Q)
	21 2,4-Dimethylphenol	107	4.849	4.848	(0.944)	42871	10.0000	9.4(Q)

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5054.D
Report Date: 26-Oct-2011 09:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22 bis(2-Chloroethoxy)methane	93	4.924	4.923	(0.958)	53562	10.0000	9.3
$	23 2,4-Dichlorophenol-d3	165	4.999	5.009	(0.973)	21850	10.0000	9.0
	24 2,4-Dichlorophenol	162	5.010	5.020	(0.975)	21540	10.0000	9.6
*	25 Naphthalene-d8	136	5.138	5.138	(1.000)	231295	40.0000	
	26 Naphthalene	128	5.149	5.159	(1.002)	58053	10.0000	9.8
$	27 4-Chloroaniline-d4	131	5.181	5.191	(1.008)	22939	10.0000	11(Q)
	28 4-Chloroaniline	127	5.192	5.191	(1.010)	22811	10.0000	9.6
	29 Hexachlorobutadiene	225	5.267	5.267	(1.025)	16469	10.0000	9.9
	30 Caprolactam	113	5.449	5.460	(1.061)	7762	10.0000	8.7(Q)
	31 4-Chloro-3-methylphenol	107	5.599	5.599	(1.090)	34445	10.0000	9.5
	32 2-Methylnaphthalene	142	5.728	5.738	(1.115)	40737	10.0000	10
	33 Hexachlorocyclopentadiene	237	5.878	5.878	(0.891)	14600	10.0000	8.3(Q)
	34 1,2,4,5-Tetrachlorobenzene	216	5.878	5.878	(0.891)	59367	10.0000	9.5
	35 2,4,6-Trichlorophenol	196	5.964	5.974	(0.904)	18971	10.0000	9.8
	36 2,4,5-Trichlorophenol	196	5.996	5.996	(0.909)	18342	10.0000	9.3(a)
	37 1,1'-Biphenyl	154	6.114	6.124	(0.927)	55394	10.0000	10
	38 2-Chloronaphthalene	162	6.136	6.146	(0.930)	49179	10.0000	10
	39 2-Nitroaniline	65	6.211	6.221	(0.941)	24626	10.0000	10
$	40 Dimethylphthalate-d6	166	6.350	6.350	(0.963)	54840	10.0000	9.6
	41 Dimethylphthalate	163	6.361	6.371	(0.964)	53763	10.0000	10
	42 2,6-Dinitrotoluene	165	6.414	6.414	(0.972)	13354	10.0000	10
$	43 Acenaphthylene-d8	160	6.468	6.478	(0.980)	74903	10.0000	10
	44 Acenaphthylene	152	6.479	6.489	(0.982)	68062	10.0000	10
	45 3-Nitroaniline	138	6.554	6.553	(0.993)	10623	10.0000	12(Q)
*	46 Acenaphthene-d10	164	6.597	6.607	(1.000)	150075	40.0000	
	47 Acenaphthene	153	6.629	6.628	(1.005)	45256	10.0000	10
	48 2,4-Dinitrophenol	184	6.640	6.639	(1.007)	3291	10.0000	5.4(aQ)
	52 Dibenzofuran	168	6.768	6.779	(1.026)	67008	10.0000	10
$	49 4-Nitrophenol-d4	143	6.682	6.682	(1.013)	7212	10.0000	8.7
	50 4-Nitrophenol	109	6.682	6.693	(1.013)	13820	10.0000	8.6(a)
	51 2,4-Dinitrotoluene	165	6.747	6.757	(1.023)	16234	10.0000	9.7(Q)
	118 2,3,4,6-Tetrachlorophenol	232	6.876	6.875	(1.042)	13651	10.0000	10
	53 Diethylphthalate	149	6.951	6.950	(1.054)	56488	10.0000	11
$	54 Fluorene-d10	176	7.026	7.036	(1.065)	54133	10.0000	10
	56 Fluorene	166	7.058	7.057	(1.070)	52647	10.0000	10
	55 4-Chlorophenyl-phenylether	204	7.047	7.057	(1.068)	29496	10.0000	11
	57 4-Nitroaniline	138	7.058	7.068	(1.070)	9393	10.0000	9.8(aQ)
$	58 4,6-Dinitro-2-methylphenol-d2	200	7.079	7.090	(0.904)	7797	10.0000	7.0(Q)
	59 4,6-Dinitro-2-methylphenol	198	7.090	7.090	(0.906)	6910	10.0000	6.3(aQ)
	60 N-Nitrosodiphenylamine	169	7.144	7.154	(0.912)	43144	10.0000	9.9
	61 4-Bromophenyl-phenylether	248	7.455	7.465	(0.952)	16040	10.0000	10
	62 Hexachlorobenzene	284	7.519	7.529	(0.960)	17444	10.0000	11
	63 Atrazine	200	7.583	7.583	(0.969)	15010	10.0000	9.5
	64 Pentachlorophenol	266	7.680	7.679	(0.981)	5841	10.0000	7.2(a)
*	65 Phenanthrene-d10	188	7.830	7.840	(1.000)	286359	40.0000	
	66 Phenanthrene	178	7.851	7.862	(1.003)	84149	10.0000	10
$	67 Anthracene-d10	188	7.884	7.883	(1.007)	82836	10.0000	10
	68 Anthracene	178	7.894	7.894	(1.008)	81407	10.0000	10
	117 Carbazole	167	8.023	8.022	(1.025)	64840	10.0000	9.8
	70 Di-n-butylphthalate	149	8.312	8.312	(1.062)	65846	10.0000	9.3
	71 Fluoranthene	202	8.859	8.859	(1.131)	85860	10.0000	10
$	72 Pyrene-d10	212	9.042	9.041	(0.890)	68402	10.0000	9.4
	73 Pyrene	202	9.063	9.063	(0.892)	83460	10.0000	9.1
	74 Butylbenzylphthalate	149	9.621	9.620	(0.947)	24001	10.0000	8.4

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5054.D
Report Date: 26-Oct-2011 09:59

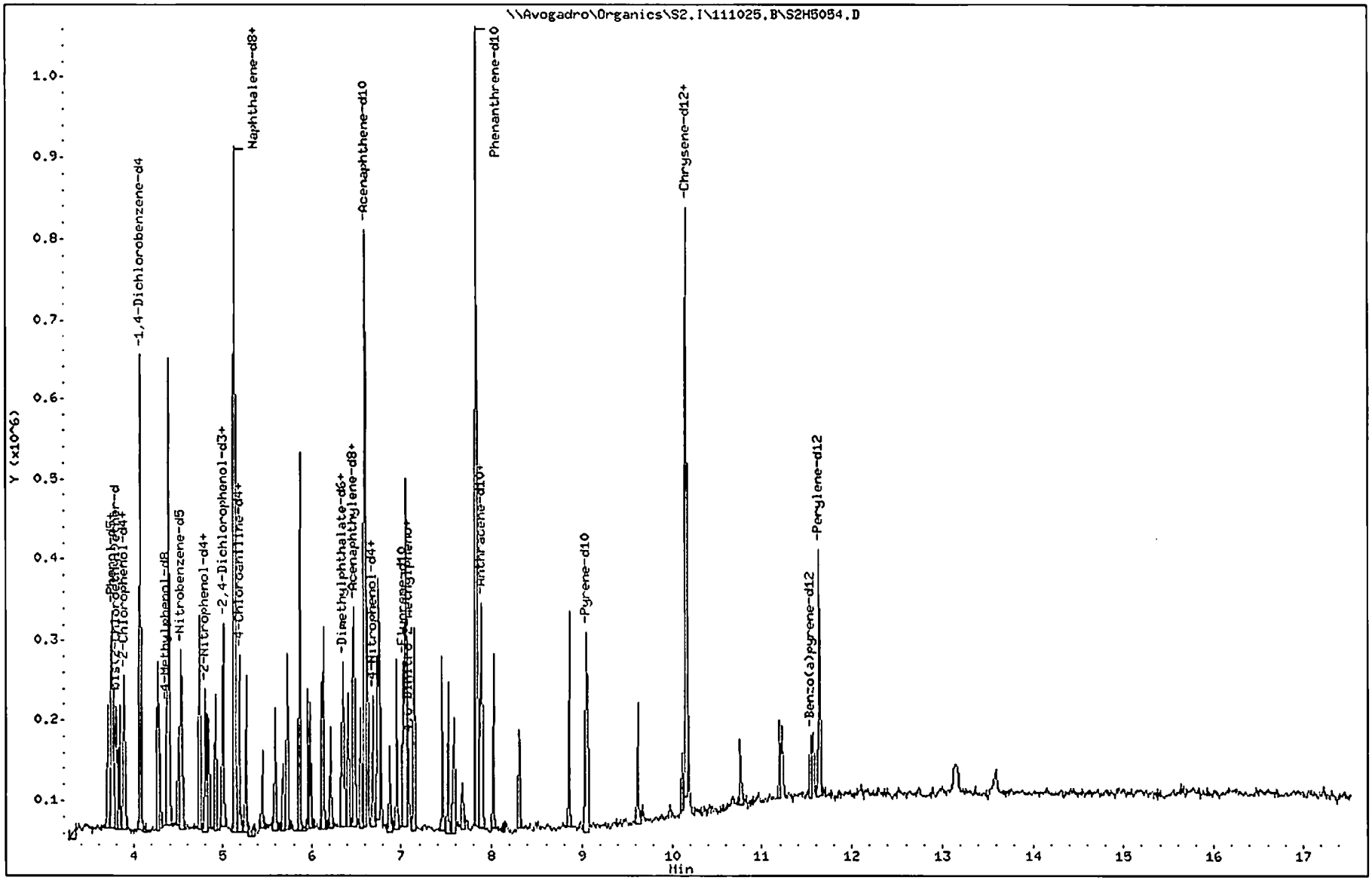
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
75	3,3'-Dichlorobenzidine	252	10.114	10.114	(0.996)	14684	10.0000	8.6
76	Benzo(a)anthracene	228	10.146	10.146	(0.999)	72341	10.0000	11
' 77	Chrysene-d12	240	10.157	10.156	(1.000)	229879	40.0000	(Q)
78	Chrysene	228	10.178	10.178	(1.002)	59445	10.0000	9.9
79	bis(2-Ethylhexyl)phthalate	149	10.157	10.146	(1.000)	32662	10.0000	9.4
80	Di-n-octylphthalate	149	10.757	10.757	(0.924)	43628	10.0000	8.2
81	Benzo(b)fluoranthene	252	11.197	11.197	(0.962)	43681	10.0000	9.3
82	Benzo(k)fluoranthene	252	11.229	11.218	(0.965)	58547	10.0000	11
$ 83	Benzo(a)pyrene-d12	264	11.540	11.540	(0.992)	35368	10.0000	9.9
84	Benzo(a)pyrene	252	11.572	11.572	(0.994)	41382	10.0000	10
* 85	Perylene-d12	264	11.637	11.636	(1.000)	145535	40.0000	
86	Indeno(1,2,3-cd)pyrene	276	13.138	13.127	(1.129)	32547	10.0000	10
87	Dibenzo(a,h)anthracene	278	13.160	13.159	(1.131)	26928	10.0000	10
88	Benzo(g,h,i)perylene	276	13.588	13.588	(1.168)	26705	10.0000	10

QC Flag Legend

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

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5054.D
Date : 25-OCT-2011 11:58
Client ID: SSTD0052W
Sample Info: SSTD0052W,SSTD0052W
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.I
Operator: SRC:
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5055.D
Report Date: 26-Oct-2011 09:59

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111025.B\S2H5055.D
Lab Smp Id: SSTD0802W Client Smp ID: SSTD0802W
Inj Date : 25-OCT-2011 12:21
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0802W,SSTD0802W
Misc Info : 1,5
Comment :
Method : \\Avogadro\Organics\S2.I\111025.B\S2_SOM.m
Meth Date : 26-Oct-2011 09:59 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1 Benzaldehyde	77	3.704	3.712	(0.910)	451731	160.000	140
S 2 Phenol-d5	71	3.747	3.754	(0.921)	389542	160.000	190(A)
3 Phenol	94	3.768	3.765	(0.926)	1061024	160.000	180(A)
$ 4 bis(2-Chloroethyl)ether-d8	67	3.800	3.797	(0.934)	491270	160.000	170(A)
5 bis(2-Chloroethyl)ether	93	3.843	3.840	(0.945)	739408	160.000	180(A)
$ 6 2-Chlorophenol-d4	132	3.886	3.883	(0.955)	324350	160.000	180(A)
7 2-Chlorophenol	128	3.897	3.894	(0.958)	331093	160.000	180(A)
* 8 1,4-Dichlorobenzene-d4	152	4.069	4.076	(1.000)	66544	40.0000	(Q)
9 2-Methylphenol	108	4.272	4.269	(1.050)	576248	160.000	180(A)
10 2,2'-oxybis(1-Chloropropane)	45	4.294	4.291	(1.055)	713521	160.000	170(A)
$ 11 4-Methylphenol-d8	113	4.379	4.376	(1.076)	538063	160.000	190(A)
13 Acetophenone	105	4.401	4.398	(1.082)	993466	160.000	180(A)
14 N-Nitroso-di-n-propylamine	70	4.401	4.398	(1.082)	463610	160.000	180(AQ)
12 4-Methylphenol	108	4.401	4.398	(1.082)	634982	160.000	200(A)
15 Hexachloroethane	117	4.497	4.505	(1.105)	238653	160.000	160(AQ)
$ 16 Nitrobenzene-d5	128	4.530	4.527	(0.881)	171606	160.000	160(A)
17 Nitrobenzene	77	4.551	4.548	(0.885)	864223	160.000	160(A)
18 Isophorone	82	4.744	4.741	(0.923)	1523694	160.000	170(A)
$ 19 2-Nitrophenol-d4	143	4.808	4.805	(0.935)	198212	160.000	170(A)
20 2-Nitrophenol	139	4.819	4.816	(0.937)	184702	160.000	160(A)
21 2,4-Dimethylphenol	107	4.851	4.848	(0.944)	676917	160.000	170(AQ)

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5055.D
Report Date: 26-Oct-2011 09:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22 bis(2-Chloroethoxy)methane	93	4.926	4.923	(0.958)	844250	160.000	170(A)
$	23 2,4-Dichlorophenol-d3	165	5.012	5.009	(0.975)	370810	160.000	170(A)
	24 2,4-Dichlorophenol	162	5.012	5.020	(0.975)	336936	160.000	170(A)
*	25 Naphthalene-d8	136	5.141	5.138	(1.000)	202795	40.0000	
	26 Naphthalene	128	5.152	5.159	(1.002)	862863	160.000	170(A)
$	27 4-Chloroaniline-d4	131	5.184	5.191	(1.008)	301135	160.000	160(Q)
	28 4-Chloroaniline	127	5.194	5.191	(1.010)	356828	160.000	170(A)
	29 Hexachlorobutadiene	225	5.270	5.267	(1.025)	232801	160.000	160(A)
	30 Caprolactam	113	5.463	5.460	(1.063)	139061	160.000	180(A)
	31 4-Chloro-3-methylphenol	107	5.602	5.599	(1.090)	568462	160.000	180(A)
	32 2-Methylnaphthalene	142	5.731	5.738	(1.115)	598179	160.000	170(A)
	33 Hexachlorocyclopentadiene	237	5.881	5.878	(0.891)	259779	160.000	180(AQ)
	34 1,2,4,5-Tetrachlorobenzene	216	5.881	5.878	(0.891)	954196	160.000	180(A)
	35 2,4,6-Trichlorophenol	196	5.967	5.974	(0.904)	297313	160.000	180(A)
	36 2,4,5-Trichlorophenol	196	5.999	5.996	(0.909)	308771	160.000	190(A)
	37 1,1'-Biphenyl	154	6.117	6.124	(0.927)	767912	160.000	170(A)
	38 2-Chloronaphthalene	162	6.138	6.146	(0.930)	726576	160.000	180(A)
	39 2-Nitroaniline	65	6.213	6.221	(0.942)	353321	160.000	180(A)
$	40 Dimethylphthalate-d6	166	6.353	6.350	(0.963)	813301	160.000	170(A)
	41 Dimethylphthalate	163	6.374	6.371	(0.966)	731022	160.000	160(A)
	42 2,6-Dinitrotoluene	165	6.417	6.414	(0.972)	198638	160.000	180(A)
$	43 Acenaphthylene-d8	160	6.471	6.478	(0.981)	1071404	160.000	170(A)
	44 Acenaphthylene	152	6.481	6.489	(0.982)	964311	160.000	170(A)
	45 3-Nitroaniline	138	6.556	6.553	(0.994)	124790	160.000	170(A)
*	46 Acenaphthene-d10	164	6.599	6.607	(1.000)	131332	40.0000	
	47 Acenaphthene	153	6.631	6.628	(1.005)	650871	160.000	180(A)
	48 2,4-Dinitrophenol	184	6.642	6.639	(1.007)	113177	160.000	220(AQ)
	52 Dibenzofuran	168	6.771	6.779	(1.026)	904327	160.000	170(A)
$	49 4-Nitrophenol-d4	143	6.685	6.682	(1.013)	125573	160.000	180(A)
	50 4-Nitrophenol	109	6.696	6.693	(1.015)	247914	160.000	180(A)
	51 2,4-Dinitrotoluene	165	6.749	6.757	(1.023)	242541	160.000	170(AQ)
	118 2,3,4,6-Tetrachlorophenol	232	6.878	6.875	(1.042)	204288	160.000	180(A)
	53 Diethylphthalate	149	6.953	6.950	(1.054)	679754	160.000	160(A)
$	54 Fluorene-d10	176	7.039	7.036	(1.067)	733898	160.000	170(A)
	56 Fluorene	166	7.060	7.057	(1.070)	773517	160.000	170(A)
	55 4-Chlorophenyl-phenylether	204	7.050	7.057	(1.068)	386824	160.000	160(A)
	57 4-Nitroaniline	138	7.060	7.068	(1.070)	122002	160.000	150(Q)
$	58 4,6-Dinitro-2-methylphenol-d2	200	7.082	7.090	(0.904)	166098	160.000	190(A)
	59 4,6-Dinitro-2-methylphenol	198	7.093	7.090	(0.906)	160228	160.000	190(AQ)
	60 N-Nitrosodiphenylamine	169	7.146	7.154	(0.912)	587468	160.000	170(A)
	61 4-Bromophenyl-phenylether	248	7.457	7.465	(0.952)	203259	160.000	170(A)
	62 Hexachlorobenzene	284	7.522	7.529	(0.960)	212255	160.000	160(A)
	63 Atrazine	200	7.586	7.583	(0.969)	198672	160.000	160
	64 Pentachlorophenol	266	7.682	7.679	(0.981)	118477	160.000	190(A)
*	65 Phenanthrene-d10	188	7.832	7.840	(1.000)	226084	40.0000	
	66 Phenanthrene	178	7.854	7.862	(1.003)	1056637	160.000	170(A)
$	67 Anthracene-d10	188	7.886	7.883	(1.007)	1028619	160.000	160
	68 Anthracene	178	7.897	7.894	(1.008)	1088821	160.000	170(A)
	117 Carbazole	167	8.026	8.022	(1.025)	856417	160.000	160(A)
	70 Di-n-butylphthalate	149	8.304	8.312	(1.060)	813103	160.000	150
	71 Fluoranthene	202	8.862	8.859	(1.131)	960445	160.000	150
$	72 Pyrene-d10	212	9.044	9.041	(0.892)	745046	160.000	220(A)
	73 Pyrene	202	9.055	9.063	(0.893)	927058	160.000	210(A)
	74 Butylbenzylphthalate	149	9.613	9.620	(0.948)	254386	160.000	190(A)

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5055.D
Report Date: 26-Oct-2011 09:59

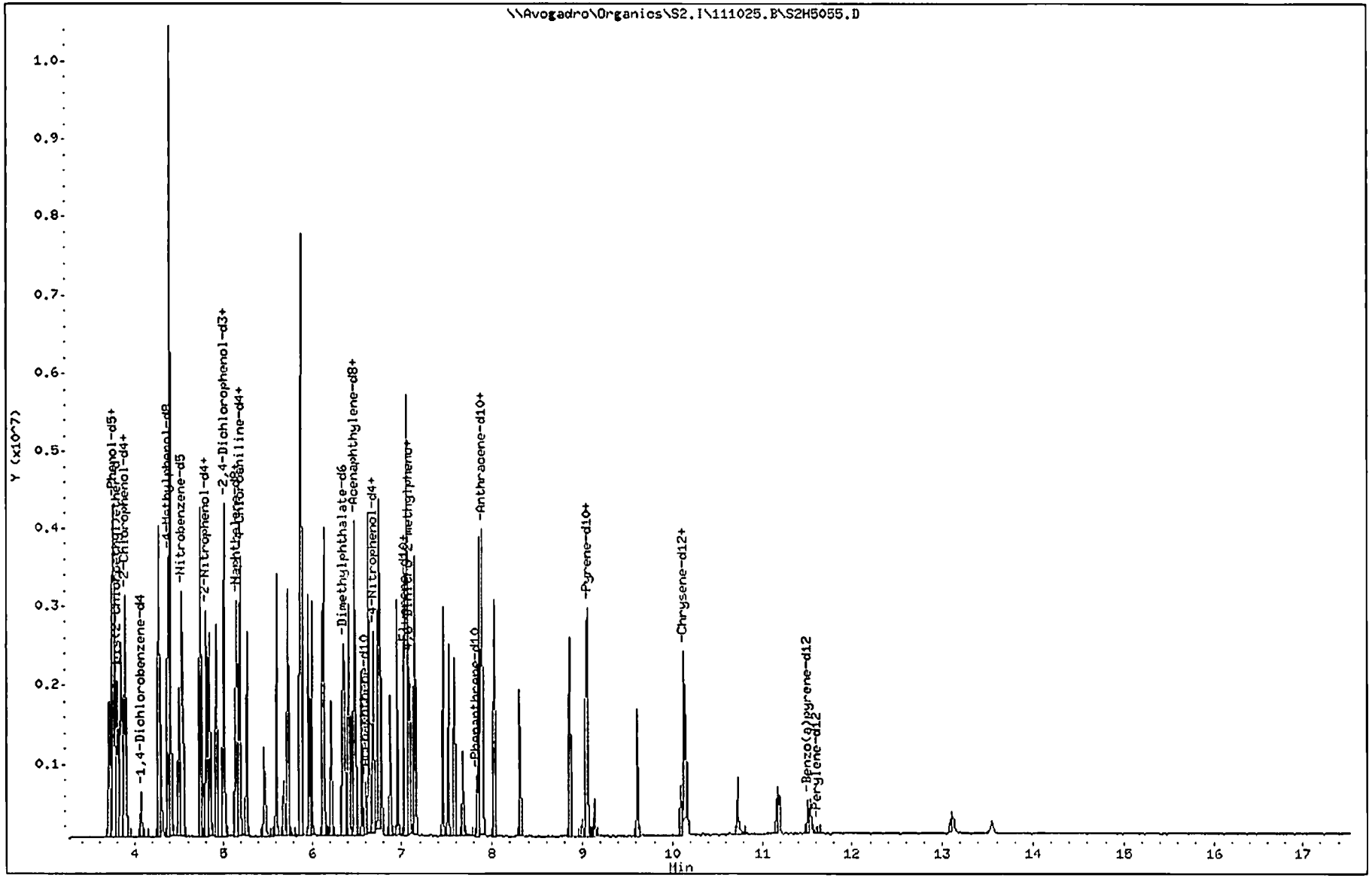
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	75 3,3'-Dichlorobenzidine	252	10.095	10.114	(0.996)	126489	160.000	160
	76 Benzo(a)anthracene	228	10.127	10.146	(0.999)	537512	160.000	170(A)
*	77 Chrysene-d12	240	10.138	10.156	(1.000)	109544	40.0000	(Q)
	78 Chrysene	228	10.159	10.178	(1.002)	457251	160.000	160
	79 bis(2-Ethylhexyl)phthalate	149	10.138	10.146	(1.000)	283596	160.000	170(A)
	80 Di-n-octylphthalate	149	10.728	10.757	(0.924)	371034	160.000	200(A)
	81 Benzo(b)fluoranthene	252	11.168	11.197	(0.962)	280439	160.000	170(A)
	82 Benzo(k)fluoranthene	252	11.200	11.218	(0.965)	330277	160.000	170(A)
$	83 Benzo(a)pyrene-d12	264	11.511	11.540	(0.992)	199793	160.000	160
	84 Benzo(a)pyrene	252	11.543	11.572	(0.994)	237127	160.000	160(A)
*	85 Perylene-d12	264	11.607	11.636	(1.000)	50981	40.0000	
	86 Indeno(1,2,3-cd)pyrene	276	13.098	13.127	(1.128)	176065	160.000	160
	87 Dibenzo(a,h)anthracene	278	13.130	13.159	(1.131)	143627	160.000	160
	88 Benzo(g,h,i)perylene	276	13.548	13.588	(1.167)	138852	160.000	150

QC Flag Legend

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

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5055.D
Date : 25-OCT-2011 12:21
Client ID: SSTD0802W
Sample Info: SSTD0802W,SSTD0802W
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.I
Operator: SRC:
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5056.D
Report Date: 26-Oct-2011 09:59

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111025.B\S2H5056.D
Lab Smp Id: SSTD0102W Client Smp ID: SSTD0102W
Inj Date : 25-OCT-2011 12:44
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0102W,SSTD0102W
Misc Info : 1,2
Comment :
Method : \\Avogadro\Organics\S2.I\111025.B\S2_SOM.m
Meth Date : 26-Oct-2011 09:59 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Benzaldehyde	77	3.703	3.712	(0.906)	125412	20.0000	21
$	2 Phenol-d5	71	3.746	3.754	(0.919)	72033	20.0000	19
	3 Phenol	94	3.757	3.765	(0.921)	187725	20.0000	18
$	4 bis(2-Chloroethyl)ether-d8	67	3.800	3.797	(0.932)	100785	20.0000	19
	5 bis(2-Chloroethyl)ether	93	3.843	3.840	(0.942)	143038	20.0000	19
$	6 2-Chlorophenol-d4	132	3.885	3.883	(0.953)	62775	20.0000	19
	7 2-Chlorophenol	128	3.896	3.894	(0.955)	64198	20.0000	19
*	8 1,4-Dichlorobenzene-d4	152	4.078	4.076	(1.000)	120111	40.0000	(Q)
	9 2-Methylphenol	108	4.271	4.269	(1.047)	102895	20.0000	18
	10 2,2'-oxybis(1-Chloropropane)	45	4.293	4.291	(1.053)	150766	20.0000	20
$	11 4-Methylphenol-d8	113	4.368	4.376	(1.071)	90503	20.0000	18
	13 Acetophenone	105	4.400	4.398	(1.079)	183559	20.0000	19
	14 N-Nitroso-di-n-propylamine	70	4.400	4.398	(1.079)	87385	20.0000	18(Q)
	12 4-Methylphenol	108	4.389	4.398	(1.076)	97545	20.0000	17
	15 Hexachloroethane	117	4.497	4.505	(1.103)	50482	20.0000	19(Q)
$	16 Nitrobenzene-d5	128	4.529	4.527	(0.881)	32853	20.0000	20
	17 Nitrobenzene	77	4.540	4.548	(0.883)	161880	20.0000	19
	18 Isophorone	82	4.743	4.741	(0.923)	275053	20.0000	19
$	19 2-Nitrophenol-d4	143	4.808	4.805	(0.935)	34189	20.0000	18
	20 2-Nitrophenol	139	4.818	4.816	(0.937)	36775	20.0000	20
	21 2,4-Dimethylphenol	107	4.851	4.848	(0.944)	117444	20.0000	19(Q)

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5056.D
Report Date: 26-Oct-2011 09:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22 bis(2-Chloroethoxy)methane	93	4.926	4.923	(0.958)	155215	20.0000	19
$	23 2,4-Dichlorophenol-d3	165	5.001	5.009	(0.973)	64330	20.0000	19
	24 2,4-Dichlorophenol	162	5.011	5.020	(0.975)	57855	20.0000	19
*	25 Naphthalene-d8	136	5.140	5.138	(1.000)	322412	40.0000	
	26 Naphthalene	128	5.151	5.159	(1.002)	164907	20.0000	20
$	27 4-Chloroaniline-d4	131	5.183	5.191	(1.008)	59697	20.0000	20(Q)
	28 4-Chloroaniline	127	5.194	5.191	(1.010)	66465	20.0000	20
	29 Hexachlorobutadiene	225	5.269	5.267	(1.025)	48784	20.0000	21
	30 Caprolactam	113	5.451	5.460	(1.060)	22983	20.0000	19
	31 4-Chloro-3-methylphenol	107	5.601	5.599	(1.090)	85751	20.0000	17
	32 2-Methylnaphthalene	142	5.730	5.738	(1.115)	108595	20.0000	19
	33 Hexachlorocyclopentadiene	237	5.880	5.878	(0.891)	47469	20.0000	20(Q)
	34 1,2,4,5-Tetrachlorobenzene	216	5.880	5.878	(0.891)	175138	20.0000	21
	35 2,4,6-Trichlorophenol	196	5.966	5.974	(0.904)	56712	20.0000	22
	36 2,4,5-Trichlorophenol	196	5.998	5.996	(0.909)	50977	20.0000	19(a)
	37 1,1'-Biphenyl	154	6.127	6.124	(0.928)	140310	20.0000	19
	38 2-Chloronaphthalene	162	6.137	6.146	(0.930)	135707	20.0000	21
	39 2-Nitroaniline	65	6.212	6.221	(0.941)	60092	20.0000	19
$	40 Dimethylphthalate-d6	166	6.352	6.350	(0.963)	144862	20.0000	19
	41 Dimethylphthalate	163	6.363	6.371	(0.964)	131624	20.0000	19
	42 2,6-Dinitrotoluene	165	6.416	6.414	(0.972)	33942	20.0000	19
$	43 Acenaphthylene-d8	160	6.470	6.478	(0.980)	198044	20.0000	20
	44 Acenaphthylene	152	6.481	6.489	(0.982)	173387	20.0000	19
	45 3-Nitroaniline	138	6.556	6.553	(0.993)	21927	20.0000	19
*	46 Acenaphthene-d10	164	6.599	6.607	(1.000)	206539	40.0000	
	47 Acenaphthene	153	6.631	6.628	(1.005)	117622	20.0000	20
	48 2,4-Dinitrophenol	184	6.641	6.639	(1.007)	10809	20.0000	13(Q)
	52 Dibenzofuran	168	6.770	6.779	(1.026)	174468	20.0000	20
$	49 4-Nitrophenol-d4	143	6.684	6.682	(1.013)	18648	20.0000	17
	50 4-Nitrophenol	109	6.684	6.693	(1.013)	35589	20.0000	17
	51 2,4-Dinitrotoluene	165	6.749	6.757	(1.023)	43019	20.0000	19(Q)
	118 2,3,4,6-Tetrachlorophenol	232	6.877	6.875	(1.042)	32406	20.0000	18
	53 Diethylphthalate	149	6.952	6.950	(1.054)	133920	20.0000	20
$	54 Fluorene-d10	176	7.027	7.036	(1.065)	137530	20.0000	20
	56 Fluorene	166	7.060	7.057	(1.070)	130330	20.0000	19
	55 4-Chlorophenyl-phenylether	204	7.049	7.057	(1.068)	71631	20.0000	19
	57 4-Nitroaniline	138	7.060	7.068	(1.070)	26593	20.0000	21(Q)
$	58 4,6-Dinitro-2-methylphenol-d2	200	7.081	7.090	(0.904)	22647	20.0000	17
	59 4,6-Dinitro-2-methylphenol	198	7.092	7.090	(0.906)	20088	20.0000	15(aQ)
	60 N-Nitrosodiphenylamine	169	7.145	7.154	(0.912)	107883	20.0000	21
	61 4-Bromophenyl-phenylether	248	7.456	7.465	(0.952)	38077	20.0000	20
	62 Hexachlorobenzene	284	7.521	7.529	(0.960)	40531	20.0000	20
	63 Atrazine	200	7.585	7.583	(0.969)	37213	20.0000	20
	64 Pentachlorophenol	266	7.682	7.679	(0.981)	15010	20.0000	16
*	65 Phenanthrene-d10	188	7.832	7.840	(1.000)	343880	40.0000	
	66 Phenanthrene	178	7.853	7.862	(1.003)	190037	20.0000	20
$	67 Anthracene-d10	188	7.885	7.883	(1.007)	189817	20.0000	19
	68 Anthracene	178	7.896	7.894	(1.008)	195947	20.0000	20
	117 Carbazole	167	8.025	8.022	(1.025)	160106	20.0000	20
	70 Di-n-butylphthalate	149	8.304	8.312	(1.060)	177045	20.0000	21
	71 Fluoranthene	202	8.850	8.859	(1.130)	197940	20.0000	20
$	72 Pyrene-d10	212	9.033	9.041	(0.893)	157501	20.0000	18(H)
	73 Pyrene	202	9.043	9.063	(0.894)	195088	20.0000	18
	74 Butylbenzylphthalate	149	9.590	9.620	(0.948)	63891	20.0000	19

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5056.D
Report Date: 26-Oct-2011 09:59

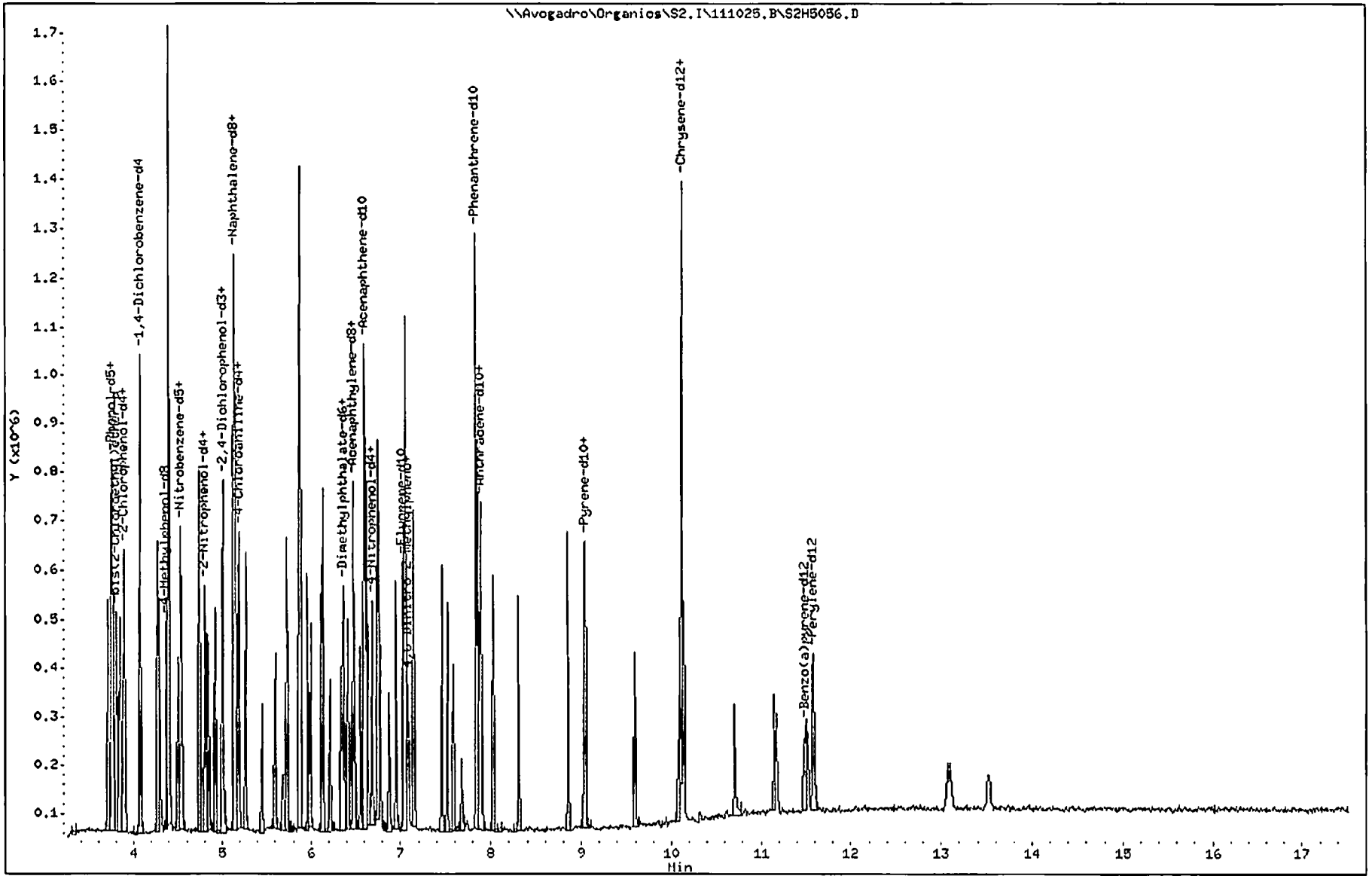
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
75 3,3'-Dichlorobenzidine	252	10.073	10.114	(0.996)	40595	20.0000	20
76 Benzo(a)anthracene	228	10.105	10.146	(0.999)	158537	20.0000	20
• 77 Chrysene-d12	240	10.116	10.156	(1.000)	273540	40.0000	(Q)
78 Chrysene	228	10.137	10.178	(1.002)	143301	20.0000	20
79 bis(2-Ethylhexyl)phthalate	149	10.116	10.146	(1.000)	81805	20.0000	20
80 Di-n-octylphthalate	149	10.706	10.757	(0.924)	120856	20.0000	18
81 Benzo(b)fluoranthene	252	11.145	11.197	(0.962)	110449	20.0000	18
82 Benzo(k)fluoranthene	252	11.177	11.218	(0.965)	135076	20.0000	20
$ 83 Benzo(a)pyrene-d12	264	11.488	11.540	(0.992)	89501	20.0000	20
84 Benzo(a)pyrene	252	11.510	11.572	(0.994)	101587	20.0000	19
• 85 Perylene-d12	264	11.585	11.636	(1.000)	184086	40.0000	
86 Indeno(1,2,3-cd)pyrene	276	13.076	13.127	(1.129)	83072	20.0000	21
87 Dibenzo(a,h)anthracene	278	13.097	13.159	(1.131)	68344	20.0000	21
88 Benzo(g,h,i)perylene	276	13.526	13.588	(1.168)	71594	20.0000	21

QC Flag Legend

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

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5056.D
Date : 25-OCT-2011 12:44
Client ID: SSTD0102W
Sample Info: SSTD0102W,SSTD0102W
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.I
Operator: SRC:
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5057.D
Report Date: 26-Oct-2011 09:59

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111025.B\S2H5057.D
Lab Smp Id: SSTD0402W Client Smp ID: SSTD0402W
Inj Date : 25-OCT-2011 13:07
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0402W,SSTD0402W
Misc Info : 1,4
Comment :
Method : \\Avogadro\Organics\S2.I\111025.B\S2_SOM.m
Meth Date : 26-Oct-2011 09:59 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Benzaldehyde	77	3.712	3.712	(0.911)	288681	80.0000	73
$	2 Phenol-d5	71	3.754	3.754	(0.921)	212629	80.0000	84
	3 Phenol	94	3.765	3.765	(0.924)	586212	80.0000	85
$	4 bis(2-Chloroethyl)ether-d8	67	3.797	3.797	(0.932)	284521	80.0000	82
	5 bis(2-Chloroethyl)ether	93	3.840	3.840	(0.942)	426615	80.0000	84
$	6 2-Chlorophenol-d4	132	3.883	3.883	(0.953)	174526	80.0000	80
	7 2-Chlorophenol	128	3.894	3.894	(0.955)	184166	80.0000	82
*	8 1,4-Dichlorobenzene-d4	152	4.076	4.076	(1.000)	80213	40.0000	(Q)
	9 2-Methylphenol	108	4.269	4.269	(1.047)	315832	80.0000	83
	10 2,2'-oxybis(1-Chloropropane)	45	4.291	4.291	(1.053)	417484	80.0000	81
$	11 4-Methylphenol-d8	113	4.376	4.376	(1.074)	298167	80.0000	87
	13 Acetophenone	105	4.398	4.398	(1.079)	535739	80.0000	82
	14 N-Nitroso-di-n-propylamine	70	4.398	4.398	(1.079)	263946	80.0000	83(Q)
	12 4-Methylphenol	108	4.398	4.398	(1.079)	337112	80.0000	87
	15 Hexachloroethane	117	4.505	4.505	(1.105)	142345	80.0000	81(Q)
$	16 Nitrobenzene-d5	128	4.527	4.527	(0.881)	96319	80.0000	79(Q)
	17 Nitrobenzene	77	4.548	4.548	(0.885)	518558	80.0000	85
	18 Isophorone	82	4.741	4.741	(0.923)	882963	80.0000	84
$	19 2-Nitrophenol-d4	143	4.805	4.805	(0.935)	117618	80.0000	87
	20 2-Nitrophenol	139	4.816	4.816	(0.937)	110164	80.0000	83
	21 2,4-Dimethylphenol	107	4.848	4.848	(0.944)	391699	80.0000	85(Q)

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5057.D
Report Date: 26-Oct-2011 09:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22 bis(2-Chloroethoxy)methane	93	4.923	4.923	(0.958)	494082	80.0000	85
$	23 2,4-Dichlorophenol-d3	165	5.009	5.009	(0.975)	210720	80.0000	85
	24 2,4-Dichlorophenol	162	5.020	5.020	(0.977)	193773	80.0000	85
•	25 Naphthalene-d8	136	5.138	5.138	(1.000)	235234	40.0000	
	26 Naphthalene	128	5.159	5.159	(1.004)	482017	80.0000	80
$	27 4-Chloroaniline-d4	131	5.191	5.191	(1.010)	185866	80.0000	85(Q)
	28 4-Chloroaniline	127	5.191	5.191	(1.010)	205320	80.0000	85
	29 Hexachlorobutadiene	225	5.266	5.267	(1.025)	137369	80.0000	81
	30 Caprolactam	113	5.459	5.460	(1.063)	81646	80.0000	90
	31 4-Chloro-3-methylphenol	107	5.599	5.599	(1.090)	319912	80.0000	87
	32 2-Methylnaphthalene	142	5.738	5.738	(1.117)	341151	80.0000	82
	33 Hexachlorocyclopentadiene	237	5.878	5.878	(0.890)	166402	80.0000	88(Q)
	34 1,2,4,5-Tetrachlorobenzene	216	5.878	5.878	(0.890)	542388	80.0000	80
	35 2,4,6-Trichlorophenol	196	5.963	5.974	(0.903)	154742	80.0000	74
	36 2,4,5-Trichlorophenol	196	5.996	5.996	(0.907)	175026	80.0000	82
	37 1,1'-Biphenyl	154	6.124	6.124	(0.927)	480034	80.0000	80
	38 2-Chloronaphthalene	162	6.135	6.146	(0.929)	402180	80.0000	75
	39 2-Nitroaniline	65	6.221	6.221	(0.942)	200029	80.0000	78
$	40 Dimethylphthalate-d6	166	6.350	6.350	(0.961)	526305	80.0000	85
	41 Dimethylphthalate	163	6.371	6.371	(0.964)	476639	80.0000	82
	42 2,6-Dinitrotoluene	165	6.414	6.414	(0.971)	115289	80.0000	81
$	43 Acenaphthylene-d8	160	6.478	6.478	(0.981)	636418	80.0000	79
	44 Acenaphthylene	152	6.489	6.489	(0.982)	590360	80.0000	80
	45 3-Nitroaniline	138	6.553	6.553	(0.992)	80117	80.0000	85
•	46 Acenaphthene-d10	164	6.607	6.607	(1.000)	169053	40.0000	
	47 Acenaphthene	153	6.628	6.628	(1.003)	370943	80.0000	78
	48 2,4-Dinitrophenol	184	6.639	6.639	(1.005)	62664	80.0000	96(Q)
	52 Dibenzofuran	168	6.768	6.779	(1.024)	551983	80.0000	79
$	49 4-Nitrophenol-d4	143	6.682	6.682	(1.011)	77295	80.0000	86
	50 4-Nitrophenol	109	6.693	6.693	(1.013)	147800	80.0000	85
	51 2,4-Dinitrotoluene	165	6.746	6.757	(1.021)	147926	80.0000	81(Q)
	118 2,3,4,6-Tetrachlorophenol	232	6.875	6.875	(1.041)	126259	80.0000	86
	53 Diethylphthalate	149	6.950	6.950	(1.052)	434279	80.0000	80
$	54 Fluorene-d10	176	7.036	7.036	(1.065)	458533	80.0000	80
	56 Fluorene	166	7.057	7.057	(1.068)	476393	80.0000	83
	55 4-Chlorophenyl-phenylether	204	7.057	7.057	(1.068)	245071	80.0000	81
	57 4-Nitroaniline	138	7.057	7.068	(1.068)	85579	80.0000	82
$	58 4,6-Dinitro-2-methylphenol-d2	200	7.079	7.090	(0.904)	97757	80.0000	85(Q)
	59 4,6-Dinitro-2-methylphenol	198	7.089	7.090	(0.906)	96645	80.0000	86(Q)
	60 N-Nitrosodiphenylamine	169	7.143	7.154	(0.912)	357175	80.0000	80
	61 4-Bromophenyl-phenylether	248	7.454	7.465	(0.952)	125318	80.0000	79
	62 Hexachlorobenzene	284	7.518	7.529	(0.960)	133889	80.0000	79
	63 Atrazine	200	7.583	7.583	(0.969)	144690	80.0000	90
	64 Pentachlorophenol	266	7.679	7.679	(0.981)	78593	80.0000	95
•	65 Phenanthrene-d10	188	7.829	7.840	(1.000)	293271	40.0000	
	66 Phenanthrene	178	7.851	7.862	(1.003)	666621	80.0000	81
$	67 Anthracene-d10	188	7.883	7.883	(1.007)	693154	80.0000	83
	68 Anthracene	178	7.894	7.894	(1.008)	686895	80.0000	82
	117 Carbazole	167	8.022	8.022	(1.025)	567776	80.0000	84
	70 Di-n-butylphthalate	149	8.301	8.312	(1.060)	624097	80.0000	86
	71 Fluoranthene	202	8.848	8.859	(1.130)	735264	80.0000	87
$	72 Pyrene-d10	212	9.020	9.041	(0.888)	551098	80.0000	74
	73 Pyrene	202	9.041	9.063	(0.890)	739941	80.0000	78
	74 Butylbenzylphthalate	149	9.577	9.620	(0.943)	248048	80.0000	85

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5057.D
Report Date: 26-Oct-2011 09:59

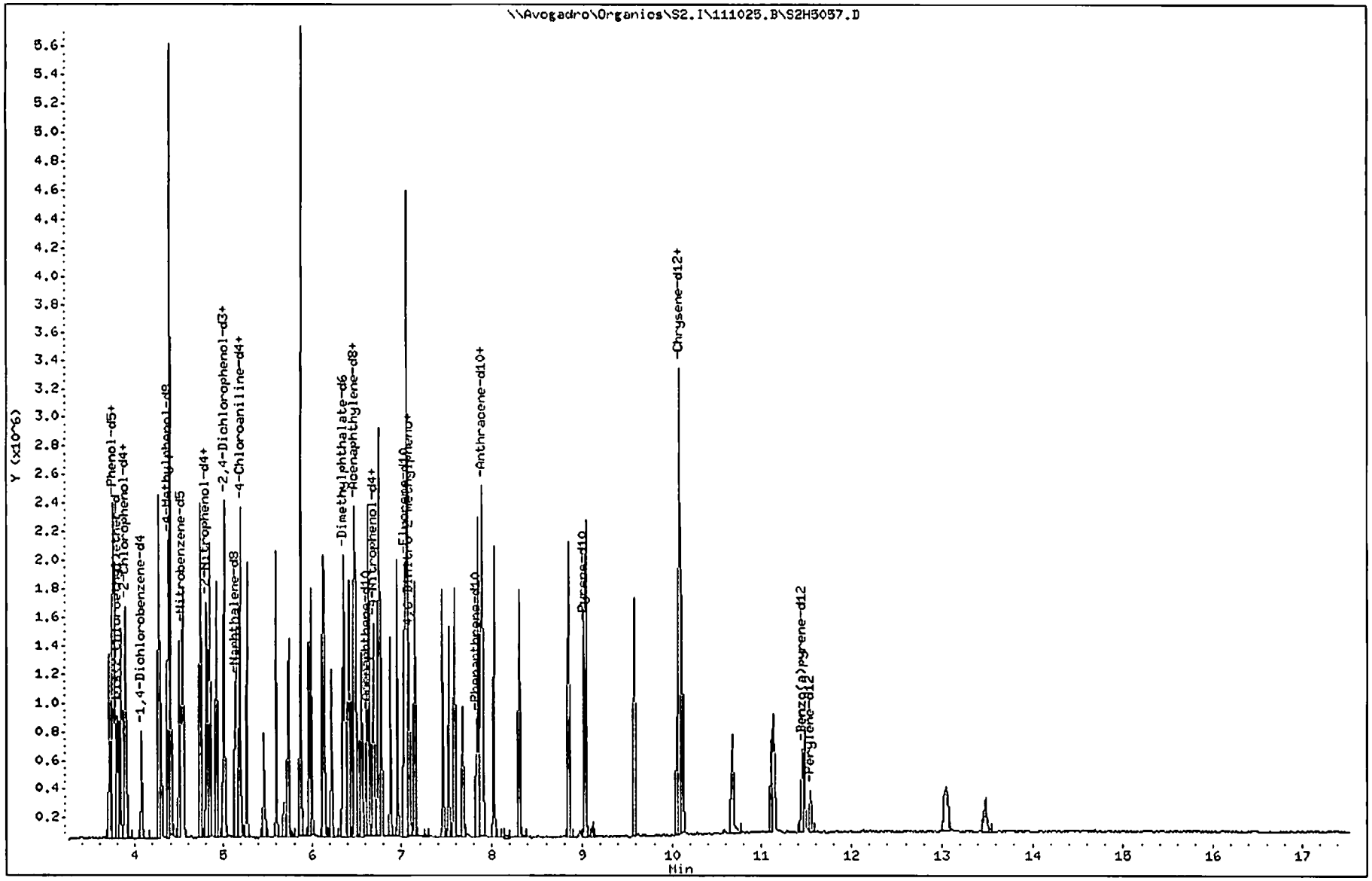
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	75 3,3'-Dichlorobenzidine	252	10.049	10.114	(0.989)	156205	80.0000	90
	76 Benzo(a)anthracene	228	10.081	10.146	(0.993)	567091	80.0000	81(H)
*	77 Chrysene-d12	240	10.092	10.156	(1.000)	235322	40.0000	(QH)
	78 Chrysene	228	10.114	10.178	(0.996)	494156	80.0000	80(H)
	79 bis(2-Ethylhexyl)phthalate	149	10.081	10.146	(0.993)	295783	80.0000	83
	80 Di-n-octylphthalate	149	10.671	10.757	(0.925)	431178	80.0000	88
	81 Benzo(b)fluoranthene	252	11.111	11.197	(0.963)	399407	80.0000	92
	82 Benzo(k)fluoranthene	252	11.132	11.218	(0.965)	397379	80.0000	79
S	83 Benzo(a)pyrene-d12	264	11.443	11.540	(0.992)	279187	80.0000	85
	84 Benzo(a)pyrene	252	11.475	11.572	(0.994)	328830	80.0000	86
*	85 Perylene-d12	264	11.540	11.636	(1.000)	134320	40.0000	
	86 Indeno(1,2,3-cd)pyrene	276	13.030	13.127	(1.129)	243524	80.0000	83
	87 Dibenzo(a,h)anthracene	278	13.052	13.159	(1.131)	204038	80.0000	84
	88 Benzo(g,h,i)perylene	276	13.481	13.588	(1.168)	204085	80.0000	84

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5057.D
Date : 25-OCT-2011 13:07
Client ID: SSTD0402W
Sample Info: SSTD0402W,SSTD0402W
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC:
Column diameter: 0.25



7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/03/2011 Time: 9:55

Lab File ID: S2H5189.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202P Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
Benzaldehyde	1.964	2.119	0.010	7.9	40.0
Phenol	3.455	3.739	0.800	8.2	25.0
Bis(2-chloroethyl)ether	2.539	2.657	0.700	4.6	25.0
2-Chlorophenol	1.121	1.207	0.800	7.7	25.0
2-Methylphenol	1.896	2.007	0.700	5.8	25.0
2,2'-Oxybis(1-chloropropane)	2.566	2.734	0.010	6.5	40.0
Acetophenone	3.271	3.510	0.010	7.3	40.0
4-Methylphenol	1.942	2.087	0.600	7.4	25.0
N-Nitroso-di-n-propylamine	1.580	1.839	0.500	16.4	25.0
Hexachloroethane	0.872	0.859	0.300	-1.5	25.0
Nitrobenzene	1.043	0.968	0.200	-7.2	25.0
Isophorone	1.782	1.687	0.400	-5.3	25.0
2-Nitrophenol	0.226	0.217	0.100	-3.9	25.0
2,4-Dimethylphenol	0.785	0.692	0.200	-11.8	25.0
Bis(2-chloroethoxy)methane	0.992	0.966	0.300	-2.6	25.0
2,4-Dichlorophenol	0.386	0.400	0.200	3.7	25.0
Naphthalene	1.030	0.964	0.700	-6.4	25.0
4-Chloroaniline	0.413	0.424	0.010	2.7	40.0
Hexachlorobutadiene	0.287	0.262	0.010	-8.8	40.0
Caprolactam	0.154	0.160	0.010	4.1	40.0
4-Chloro-3-methylphenol	0.625	0.687	0.200	9.9	25.0
2-Methylnaphthalene	0.704	0.737	0.400	4.7	25.0
Hexachlorocyclopentadiene	0.450	0.459	0.010	2.0	40.0
2,4,6-Trichlorophenol	0.494	0.475	0.200	-3.7	25.0
2,4,5-Trichlorophenol	0.508	0.480	0.200	-5.6	25.0
1,1'-Biphenyl	1.414	1.451	0.010	2.6	40.0
2-Chloronaphthalene	1.263	1.094	0.800	-13.4	25.0
2-Nitroaniline	0.606	0.605	0.010	-0.2	25.0
Dimethylphthalate	1.370	1.354	0.010	-1.2	40.0
2,6-Dinitrotoluene	0.339	0.357	0.200	5.4	25.0
Acenaphthylene	1.742	1.580	0.900	-9.3	25.0
3-Nitroaniline	0.224	0.244	0.010	8.6	40.0
Acenaphthene	1.128	1.043	0.900	-7.5	25.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/03/2011 Time: 9:55

Lab File ID: S2H5189.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202P Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.155	0.152	0.010	-2.0	40.0
4-Nitrophenol	0.410	0.414	0.010	1.0	40.0
Dibenzofuran	1.657	1.544	0.800	-6.8	25.0
2,4-Dinitrotoluene	0.430	0.456	0.200	6.1	25.0
Diethylphthalate	1.288	1.337	0.010	3.8	40.0
Fluorene	1.352	1.376	0.900	1.7	25.0
4-Chlorophenyl-phenylether	0.719	0.808	0.400	12.4	25.0
4-Nitroaniline	0.246	0.259	0.010	4.9	40.0
4,6-Dinitro-2-methylphenol	0.152	0.135	0.010	-11.3	40.0
N-Nitrosodiphenylamine [1]	0.610	0.622	0.010	2.0	40.0
1,2,4,5-Tetrachlorobenzene	1.610	1.395	0.010	-13.3	40.0
4-Bromophenyl-phenylether	0.217	0.207	0.100	-4.5	25.0
Hexachlorobenzene	0.231	0.212	0.100	-7.9	25.0
Atrazine	0.220	0.238	0.010	8.4	40.0
Pentachlorophenol	0.113	0.120	0.050	6.7	25.0
Phenanthrene	1.123	1.119	0.700	-0.4	25.0
Anthracene	1.142	1.118	0.700	-2.1	25.0
Carbazole	0.923	0.871	0.010	-5.7	40.0
Di-n-butylphthalate	0.991	1.055	0.010	6.5	40.0
Fluoranthene	1.156	1.140	0.600	-1.4	25.0
Pyrene	1.604	1.534	0.600	-4.4	25.0
Butylbenzylphthalate	0.497	0.506	0.010	1.9	40.0
3,3'-Dichlorobenzidine	0.297	0.333	0.010	12.4	40.0
Benzo(a)anthracene	1.187	1.079	0.800	-9.1	25.0
Chrysene	1.047	1.012	0.700	-3.3	25.0
Bis(2-ethylhexyl)phthalate	0.608	0.663	0.010	9.2	40.0
Di-n-octylphthalate	1.456	1.665	0.010	14.3	40.0
Benzo(b)fluoranthene	1.298	1.564	0.700	20.5	25.0
Benzo(k)fluoranthene	1.501	1.311	0.700	-12.7	25.0
Benzo(a)pyrene	1.140	1.060	0.700	-7.0	25.0
Indeno(1,2,3-cd)pyrene	0.878	0.689	0.500	-21.6	25.0
Dibenzo(a,h)anthracene	0.723	0.567	0.400	-21.6	25.0
Benzo(g,h,i)perylene	0.724	0.547	0.500	-24.4	25.0
2,3,4,6-Tetrachlorophenol	0.348	0.336	0.100	-3.7	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/03/2011 Time: 9:55

Lab File ID: S2H5189.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202P Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
Phenol-d5	1.260	1.266	0.010	0.5	25.0
Bis(2-chloroethyl)ether-d8	1.736	1.776	0.010	2.3	25.0
2-Chlorophenol-d4	1.090	1.130	0.010	3.7	25.0
4-Methylphenol-d8	1.708	1.888	0.010	10.6	25.0
Nitrobenzene-d5	0.208	0.188	0.010	-9.9	40.0
2-Nitrophenol-d4	0.230	0.232	0.010	1.1	25.0
2,4-Dichlorophenol-d3	0.420	0.458	0.010	9.2	25.0
4-Chloroaniline-d4	0.373	0.423	0.010	13.4	40.0
Dimethylphthalate-d6	1.471	1.465	0.010	-0.4	40.0
Acenaphthylene-d8	1.913	1.788	0.010	-6.5	25.0
4-Nitrophenol-d4	0.212	0.202	0.010	-4.9	40.0
Fluorene-d10	1.351	1.294	0.010	-4.2	25.0
4,6-Dinitro-2-methylphenol-d2	0.156	0.157	0.010	0.5	25.0
Anthracene-d10	1.143	1.066	0.010	-6.7	25.0
Pyrene-d10	1.260	1.203	0.010	-4.6	25.0
Benzo(a)pyrene-d12	0.982	0.894	0.010	-8.9	25.0

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/03/2011 Time: 15:43

Lab File ID: S2H5202A.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202Q Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
Benzaldehyde	1.964	1.964	0.010	0.0	40.0
Phenol	3.455	3.092	0.800	-10.5	25.0
Bis(2-chloroethyl)ether	2.539	2.320	0.700	-8.6	25.0
2-Chlorophenol	1.121	1.011	0.800	-9.7	25.0
2-Methylphenol	1.896	1.829	0.700	-3.6	25.0
2,2'-Oxybis(1-chloropropane)	2.566	2.241	0.010	-12.7	40.0
Acetophenone	3.271	3.204	0.010	-2.0	40.0
4-Methylphenol	1.942	1.960	0.600	0.9	25.0
N-Nitroso-di-n-propylamine	1.580	1.633	0.500	3.4	25.0
Hexachloroethane	0.872	0.835	0.300	-4.2	25.0
Nitrobenzene	1.043	1.026	0.200	-1.7	25.0
Isophorone	1.782	1.675	0.400	-6.0	25.0
2-Nitrophenol	0.226	0.211	0.100	-6.5	25.0
2,4-Dimethylphenol	0.785	0.800	0.200	1.8	25.0
Bis(2-chloroethoxy)methane	0.992	1.014	0.300	2.3	25.0
2,4-Dichlorophenol	0.386	0.420	0.200	8.8	25.0
Naphthalene	1.030	1.057	0.700	2.6	25.0
4-Chloroaniline	0.413	0.465	0.010	12.5	40.0
Hexachlorobutadiene	0.287	0.282	0.010	-1.7	40.0
Caprolactam	0.154	0.140	0.010	-9.3	40.0
4-Chloro-3-methylphenol	0.625	0.658	0.200	5.2	25.0
2-Methylnaphthalene	0.704	0.787	0.400	11.8	25.0
Hexachlorocyclopentadiene	0.450	0.392	0.010	-12.8	40.0
2,4,6-Trichlorophenol	0.494	0.440	0.200	-10.9	25.0
2,4,5-Trichlorophenol	0.508	0.467	0.200	-8.1	25.0
1,1'-Biphenyl	1.414	1.253	0.010	-11.4	40.0
2-Chloronaphthalene	1.263	1.056	0.800	-16.4	25.0
2-Nitroaniline	0.606	0.507	0.010	-16.3	25.0
Dimethylphthalate	1.370	1.264	0.010	-7.7	40.0
2,6-Dinitrotoluene	0.339	0.331	0.200	-2.4	25.0
Acenaphthylene	1.742	1.557	0.900	-10.6	25.0
3-Nitroaniline	0.224	0.211	0.010	-6.1	40.0
Acenaphthene	1.128	0.927	0.900	-17.8	25.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/03/2011 Time: 15:43

Lab File ID: S2H5202A.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202Q Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.155	0.100	0.010	-35.4	40.0
4-Nitrophenol	0.410	0.312	0.010	-23.9	40.0
Dibenzofuran	1.657	1.443	0.800	-12.9	25.0
2,4-Dinitrotoluene	0.430	0.409	0.200	-4.9	25.0
Diethylphthalate	1.288	1.167	0.010	-9.4	40.0
Fluorene	1.352	1.200	0.900	-11.3	25.0
4-Chlorophenyl-phenylether	0.719	0.721	0.400	0.3	25.0
4-Nitroaniline	0.246	0.223	0.010	-9.6	40.0
4,6-Dinitro-2-methylphenol	0.152	0.109	0.010	-28.2	40.0
N-Nitrosodiphenylamine [1]	0.610	0.660	0.010	8.2	40.0
1,2,4,5-Tetrachlorobenzene	1.610	1.250	0.010	-22.4	40.0
4-Bromophenyl-phenylether	0.217	0.232	0.100	7.1	25.0
Hexachlorobenzene	0.231	0.212	0.100	-8.2	25.0
Atrazine	0.220	0.240	0.010	9.1	40.0
Pentachlorophenol	0.113	0.108	0.050	-4.2	25.0
Phenanthrene	1.123	1.065	0.700	-5.2	25.0
Anthracene	1.142	1.143	0.700	0.1	25.0
Carbazole	0.923	0.811	0.010	-12.1	40.0
Di-n-butylphthalate	0.991	1.039	0.010	4.8	40.0
Fluoranthene	1.156	1.126	0.600	-2.6	25.0
Pyrene	1.604	1.712	0.600	6.7	25.0
Butylbenzylphthalate	0.497	0.518	0.010	4.2	40.0
3,3'-Dichlorobenzidine	0.297	0.277	0.010	-6.7	40.0
Benzo(a)anthracene	1.187	1.077	0.800	-9.3	25.0
Chrysene	1.047	0.963	0.700	-8.0	25.0
Bis(2-ethylhexyl)phthalate	0.608	0.679	0.010	11.7	40.0
Di-n-octylphthalate	1.456	1.419	0.010	-2.5	40.0
Benzo(b)fluoranthene	1.298	1.340	0.700	3.2	25.0
Benzo(k)fluoranthene	1.501	1.387	0.700	-7.6	25.0
Benzo(a)pyrene	1.140	1.034	0.700	-9.3	25.0
Indeno(1,2,3-cd)pyrene	0.878	0.669	0.500	-23.9	25.0
Dibenzo(a,h)anthracene	0.723	0.536	0.400	-25.9	25.0
Benzo(g,h,i)perylene	0.724	0.528	0.500	-27.0	25.0
2,3,4,6-Tetrachlorophenol	0.348	0.286	0.100	-17.9	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/03/2011 Time: 15:43

Lab File ID: S2H5202A.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202Q Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
Phenol-d5	1.260	1.170	0.010	-7.1	25.0
Bis(2-chloroethyl)ether-d8	1.736	1.665	0.010	-4.1	25.0
2-Chlorophenol-d4	1.090	1.056	0.010	-3.1	25.0
4-Methylphenol-d8	1.708	1.739	0.010	1.8	25.0
Nitrobenzene-d5	0.208	0.197	0.010	-5.7	40.0
2-Nitrophenol-d4	0.230	0.228	0.010	-0.6	25.0
2,4-Dichlorophenol-d3	0.420	0.445	0.010	6.1	25.0
4-Chloroaniline-d4	0.373	0.418	0.010	12.1	40.0
Dimethylphthalate-d6	1.471	1.440	0.010	-2.1	40.0
Acenaphthylene-d8	1.913	1.655	0.010	-13.4	25.0
4-Nitrophenol-d4	0.212	0.157	0.010	-26.1	40.0
Fluorene-d10	1.351	1.271	0.010	-6.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.156	0.143	0.010	-8.2	25.0
Anthracene-d10	1.143	1.120	0.010	-2.0	25.0
Pyrene-d10	1.260	1.272	0.010	1.0	25.0
Benzo(a)pyrene-d12	0.982	0.868	0.010	-11.6	25.0

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/03/2011 Time: 23:14

Lab File ID: S2H5223.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202R Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX %D
Benzaldehyde	1.964	1.814	0.010	-7.6	50.0
Phenol	3.455	2.956	0.010	-14.4	50.0
Bis(2-chloroethyl)ether	2.539	2.171	0.010	-14.5	50.0
2-Chlorophenol	1.121	0.927	0.010	-17.3	50.0
2-Methylphenol	1.896	1.703	0.010	-10.2	50.0
2,2'-Oxybis(1-chloropropane)	2.566	2.062	0.010	-19.6	50.0
Acetophenone	3.271	3.126	0.010	-4.4	50.0
4-Methylphenol	1.942	1.874	0.010	-3.5	50.0
N-Nitroso-di-n-propylamine	1.580	1.443	0.010	-8.7	50.0
Hexachloroethane	0.872	0.771	0.010	-11.6	50.0
Nitrobenzene	1.043	0.965	0.010	-7.5	50.0
Isophorone	1.782	1.667	0.010	-6.4	50.0
2-Nitrophenol	0.226	0.212	0.010	-5.9	50.0
2,4-Dimethylphenol	0.785	0.754	0.010	-3.9	50.0
Bis(2-chloroethoxy)methane	0.992	1.012	0.010	2.0	50.0
2,4-Dichlorophenol	0.386	0.406	0.010	5.2	50.0
Naphthalene	1.030	1.051	0.010	2.1	50.0
4-Chloroaniline	0.413	0.435	0.010	5.3	50.0
Hexachlorobutadiene	0.287	0.279	0.010	-2.7	50.0
Caprolactam	0.154	0.135	0.010	-12.4	50.0
4-Chloro-3-methylphenol	0.625	0.617	0.010	-1.3	50.0
2-Methylnaphthalene	0.704	0.762	0.010	8.2	50.0
Hexachlorocyclopentadiene	0.450	0.445	0.010	-1.0	50.0
2,4,6-Trichlorophenol	0.494	0.497	0.010	0.7	50.0
2,4,5-Trichlorophenol	0.508	0.497	0.010	-2.2	50.0
1,1'-Biphenyl	1.414	1.327	0.010	-6.1	50.0
2-Chloronaphthalene	1.263	1.106	0.010	-12.4	50.0
2-Nitroaniline	0.606	0.491	0.010	-18.9	50.0
Dimethylphthalate	1.370	1.320	0.010	-3.6	50.0
2,6-Dinitrotoluene	0.339	0.345	0.010	1.8	50.0
Acenaphthylene	1.742	1.640	0.010	-5.9	50.0
3-Nitroaniline	0.224	0.215	0.010	-4.2	50.0
Acenaphthene	1.128	0.988	0.010	-12.3	50.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/03/2011 Time: 23:14

Lab File ID: S2H5223.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202R Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.155	0.081	0.010	-47.6	50.0
4-Nitrophenol	0.410	0.294	0.010	-28.2	50.0
Dibenzofuran	1.657	1.533	0.010	-7.5	50.0
2,4-Dinitrotoluene	0.430	0.447	0.010	4.0	50.0
Diethylphthalate	1.288	1.254	0.010	-2.6	50.0
Fluorene	1.352	1.313	0.010	-2.9	50.0
4-Chlorophenyl-phenylether	0.719	0.764	0.010	6.2	50.0
4-Nitroaniline	0.246	0.200	0.010	-19.0	50.0
4,6-Dinitro-2-methylphenol	0.152	0.102	0.010	-33.0	50.0
N-Nitrosodiphenylamine (1)	0.610	0.646	0.010	5.9	50.0
1,2,4,5-Tetrachlorobenzene	1.610	1.455	0.010	-9.6	50.0
4-Bromophenyl-phenylether	0.217	0.244	0.010	12.6	50.0
Hexachlorobenzene	0.231	0.224	0.010	-3.0	50.0
Atrazine	0.220	0.236	0.010	7.5	50.0
Pentachlorophenol	0.113	0.114	0.010	0.8	50.0
Phenanthrene	1.123	1.050	0.010	-6.5	50.0
Anthracene	1.142	1.087	0.010	-4.8	50.0
Carbazole	0.923	0.752	0.010	-18.5	50.0
Di-n-butylphthalate	0.991	0.958	0.010	-3.3	50.0
Fluoranthene	1.156	1.062	0.010	-8.1	50.0
Pyrene	1.604	1.771	0.010	10.4	50.0
Butylbenzylphthalate	0.497	0.582	0.010	17.1	50.0
3,3'-Dichlorobenzidine	0.297	0.271	0.010	-8.5	50.0
Benzo(a)anthracene	1.187	1.047	0.010	-11.8	50.0
Chrysene	1.047	0.983	0.010	-6.1	50.0
Bis(2-ethylhexyl)phthalate	0.608	0.755	0.010	24.3	50.0
Di-n-octylphthalate	1.456	2.164	0.010	48.6	50.0
Benzo(b)fluoranthene	1.298	1.303	0.010	0.4	50.0
Benzo(k)fluoranthene	1.501	1.504	0.010	0.2	50.0
Benzo(a)pyrene	1.140	1.005	0.010	-11.8	50.0
Indeno(1,2,3-cd)pyrene	0.878	0.647	0.010	-26.3	50.0
Dibenzo(a,h)anthracene	0.723	0.542	0.010	-25.1	50.0
Benzo(g,h,i)perylene	0.724	0.572	0.010	-21.0	50.0
2,3,4,6-Tetrachlorophenol	0.348	0.324	0.010	-6.9	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/03/2011 Time: 23:14

Lab File ID: S2H5223.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202R Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
Phenol-d5	1.260	1.032	0.010	-18.1	50.0
Bis(2-chloroethyl)ether-d8	1.736	1.578	0.010	-9.1	50.0
2-Chlorophenol-d4	1.090	0.983	0.010	-9.8	50.0
4-Methylphenol-d8	1.708	1.607	0.010	-5.9	50.0
Nitrobenzene-d5	0.208	0.188	0.010	-9.9	50.0
2-Nitrophenol-d4	0.230	0.228	0.010	-1.0	50.0
2,4-Dichlorophenol-d3	0.420	0.434	0.010	3.4	50.0
4-Chloroaniline-d4	0.373	0.377	0.010	1.1	50.0
Dimethylphthalate-d6	1.471	1.487	0.010	1.1	50.0
Acenaphthylene-d8	1.913	1.784	0.010	-6.7	50.0
4-Nitrophenol-d4	0.212	0.149	0.010	-29.7	50.0
Fluorene-d10	1.351	1.333	0.010	-1.3	50.0
4,6-Dinitro-2-methylphenol-d2	0.156	0.123	0.010	-21.2	50.0
Anthracene-d10	1.143	1.079	0.010	-5.6	50.0
Pyrene-d10	1.260	1.351	0.010	7.2	50.0
Benzo(a)pyrene-d12	0.982	0.875	0.010	-10.9	50.0

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/04/2011 Time: 13:08

Lab File ID: S2H5225.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202S Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
Benzaldehyde	1.964	1.812	0.010	-7.7	40.0
Phenol	3.455	3.102	0.800	-10.2	25.0
Bis(2-chloroethyl)ether	2.539	2.327	0.700	-8.4	25.0
2-Chlorophenol	1.121	1.084	0.800	-3.3	25.0
2-Methylphenol	1.896	1.827	0.700	-3.7	25.0
2,2'-Oxybis(1-chloropropane)	2.566	2.320	0.010	-9.6	40.0
Acetophenone	3.271	2.962	0.010	-9.4	40.0
4-Methylphenol	1.942	1.926	0.600	-0.8	25.0
N-Nitroso-di-n-propylamine	1.580	1.453	0.500	-8.0	25.0
Hexachloroethane	0.872	0.838	0.300	-3.8	25.0
Nitrobenzene	1.043	0.936	0.200	-10.3	25.0
Isophorone	1.782	1.722	0.400	-3.4	25.0
2-Nitrophenol	0.226	0.201	0.100	-11.1	25.0
2,4-Dimethylphenol	0.785	0.779	0.200	-0.7	25.0
Bis(2-chloroethoxy)methane	0.992	0.958	0.300	-3.4	25.0
2,4-Dichlorophenol	0.386	0.400	0.200	3.5	25.0
Naphthalene	1.030	1.049	0.700	1.9	25.0
4-Chloroaniline	0.413	0.447	0.010	8.1	40.0
Hexachlorobutadiene	0.287	0.279	0.010	-2.8	40.0
Caprolactam	0.154	0.158	0.010	2.5	40.0
4-Chloro-3-methylphenol	0.625	0.603	0.200	-3.5	25.0
2-Methylnaphthalene	0.704	0.747	0.400	6.1	25.0
Hexachlorocyclopentadiene	0.450	0.411	0.010	-8.6	40.0
2,4,6-Trichlorophenol	0.494	0.443	0.200	-10.2	25.0
2,4,5-Trichlorophenol	0.508	0.532	0.200	4.7	25.0
1,1'-Biphenyl	1.414	1.288	0.010	-8.9	40.0
2-Chloronaphthalene	1.263	1.137	0.800	-10.0	25.0
2-Nitroaniline	0.606	0.519	0.010	-14.4	25.0
Dimethylphthalate	1.370	1.387	0.010	1.2	40.0
2,6-Dinitrotoluene	0.339	0.340	0.200	0.5	25.0
Acenaphthylene	1.742	1.549	0.900	-11.0	25.0
3-Nitroaniline	0.224	0.216	0.010	-3.8	40.0
Acenaphthene	1.128	0.985	0.900	-12.7	25.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/04/2011 Time: 13:08

Lab File ID: S2H5225.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202S Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.155	0.122	0.010	-21.4	40.0
4-Nitrophenol	0.410	0.332	0.010	-19.1	40.0
Dibenzofuran	1.657	1.483	0.800	-10.5	25.0
2,4-Dinitrotoluene	0.430	0.374	0.200	-13.0	25.0
Diethylphthalate	1.288	1.059	0.010	-17.7	40.0
Fluorene	1.352	1.241	0.900	-8.3	25.0
4-Chlorophenyl-phenylether	0.719	0.690	0.400	-4.1	25.0
4-Nitroaniline	0.246	0.223	0.010	-9.4	40.0
4,6-Dinitro-2-methylphenol	0.152	0.133	0.010	-12.4	40.0
N-Nitrosodiphenylamine [1]	0.610	0.647	0.010	6.1	40.0
1,2,4,5-Tetrachlorobenzene	1.610	1.375	0.010	-14.6	40.0
4-Bromophenyl-phenylether	0.217	0.234	0.100	8.2	25.0
Hexachlorobenzene	0.231	0.217	0.100	-5.8	25.0
Atrazine	0.220	0.219	0.010	-0.5	40.0
Pentachlorophenol	0.113	0.098	0.050	-12.6	25.0
Phenanthrene	1.123	1.132	0.700	0.8	25.0
Anthracene	1.142	1.111	0.700	-2.7	25.0
Carbazole	0.923	0.823	0.010	-10.8	40.0
Di-n-butylphthalate	0.991	1.117	0.010	12.7	40.0
Fluoranthene	1.156	1.121	0.600	-3.0	25.0
Pyrene	1.604	1.535	0.600	-4.4	25.0
Butylbenzylphthalate	0.497	0.519	0.010	4.5	40.0
3,3'-Dichlorobenzidine	0.297	0.311	0.010	4.8	40.0
Benzo(a)anthracene	1.187	1.057	0.800	-10.9	25.0
Chrysene	1.047	0.975	0.700	-6.8	25.0
Bis(2-ethylhexyl)phthalate	0.608	0.700	0.010	15.3	40.0
Di-n-octylphthalate	1.456	1.548	0.010	6.3	40.0
Benzo(b)fluoranthene	1.298	1.490	0.700	14.8	25.0
Benzo(k)fluoranthene	1.501	1.137	0.700	-24.2	25.0
Benzo(a)pyrene	1.140	1.029	0.700	-9.7	25.0
Indeno(1,2,3-cd)pyrene	0.878	0.750	0.500	-14.6	25.0
Dibenzo(a,h)anthracene	0.723	0.582	0.400	-19.5	25.0
Benzo(g,h,i)perylene	0.724	0.626	0.500	-13.5	25.0
2,3,4,6-Tetrachlorophenol	0.348	0.293	0.100	-15.9	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/04/2011 Time: 13:08

Lab File ID: S2H5225.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202S Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
Phenol-d5	1.260	1.169	0.010	-7.2	25.0
Bis(2-chloroethyl)ether-d8	1.736	1.610	0.010	-7.3	25.0
2-Chlorophenol-d4	1.090	1.042	0.010	-4.4	25.0
4-Methylphenol-d8	1.708	1.690	0.010	-1.0	25.0
Nitrobenzene-d5	0.208	0.189	0.010	-9.1	40.0
2-Nitrophenol-d4	0.230	0.226	0.010	-1.9	25.0
2,4-Dichlorophenol-d3	0.420	0.447	0.010	6.4	25.0
4-Chloroaniline-d4	0.373	0.384	0.010	2.9	40.0
Dimethylphthalate-d6	1.471	1.496	0.010	1.7	40.0
Acenaphthylene-d8	1.913	1.645	0.010	-14.0	25.0
4-Nitrophenol-d4	0.212	0.174	0.010	-17.7	40.0
Fluorene-d10	1.351	1.254	0.010	-7.2	25.0
4,6-Dinitro-2-methylphenol-d2	0.156	0.145	0.010	-7.3	25.0
Anthracene-d10	1.143	1.051	0.010	-8.0	25.0
Pyrene-d10	1.260	1.271	0.010	0.9	25.0
Benzo(a)pyrene-d12	0.982	0.888	0.010	-9.6	25.0

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/04/2011 Time: 17:43

Lab File ID: S2H5234.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202T Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
Benzaldehyde	1.964	2.036	0.010	3.7	50.0
Phenol	3.455	3.421	0.010	-1.0	50.0
Bis(2-chloroethyl)ether	2.539	2.514	0.010	-1.0	50.0
2-Chlorophenol	1.121	1.192	0.010	6.4	50.0
2-Methylphenol	1.896	1.967	0.010	3.7	50.0
2,2'-Oxybis(1-chloropropane)	2.566	2.257	0.010	-12.0	50.0
Acetophenone	3.271	3.060	0.010	-6.4	50.0
4-Methylphenol	1.942	1.994	0.010	2.7	50.0
N-Nitroso-di-n-propylamine	1.580	1.690	0.010	7.0	50.0
Hexachloroethane	0.872	0.884	0.010	1.4	50.0
Nitrobenzene	1.043	0.896	0.010	-14.1	50.0
Isophorone	1.782	1.675	0.010	-6.0	50.0
2-Nitrophenol	0.226	0.207	0.010	-8.1	50.0
2,4-Dimethylphenol	0.785	0.775	0.010	-1.2	50.0
Bis(2-chloroethoxy)methane	0.992	0.999	0.010	0.7	50.0
2,4-Dichlorophenol	0.386	0.414	0.010	7.1	50.0
Naphthalene	1.030	0.987	0.010	-4.2	50.0
4-Chloroaniline	0.413	0.403	0.010	-2.4	50.0
Hexachlorobutadiene	0.287	0.284	0.010	-1.1	50.0
Caprolactam	0.154	0.157	0.010	2.3	50.0
4-Chloro-3-methylphenol	0.625	0.664	0.010	6.2	50.0
2-Methylnaphthalene	0.704	0.699	0.010	-0.8	50.0
Hexachlorocyclopentadiene	0.450	0.448	0.010	-0.4	50.0
2,4,6-Trichlorophenol	0.494	0.491	0.010	-0.6	50.0
2,4,5-Trichlorophenol	0.508	0.499	0.010	-1.8	50.0
1,1'-Biphenyl	1.414	1.431	0.010	1.2	50.0
2-Chloronaphthalene	1.263	1.162	0.010	-8.0	50.0
2-Nitroaniline	0.606	0.561	0.010	-7.5	50.0
Dimethylphthalate	1.370	1.341	0.010	-2.2	50.0
2,6-Dinitrotoluene	0.339	0.358	0.010	5.7	50.0
Acenaphthylene	1.742	1.615	0.010	-7.3	50.0
3-Nitroaniline	0.224	0.235	0.010	4.7	50.0
Acenaphthene	1.128	1.111	0.010	-1.5	50.0

7F - FORM VII SV-2

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/04/2011 Time: 17:43

Lab File ID: S2H5234.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202T Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.155	0.108	0.010	-30.1	50.0
4-Nitrophenol	0.410	0.350	0.010	-14.7	50.0
Dibenzofuran	1.657	1.581	0.010	-4.6	50.0
2,4-Dinitrotoluene	0.430	0.460	0.010	7.0	50.0
Diethylphthalate	1.288	1.363	0.010	5.9	50.0
Fluorene	1.352	1.340	0.010	-0.9	50.0
4-Chlorophenyl-phenylether	0.719	0.816	0.010	13.4	50.0
4-Nitroaniline	0.246	0.230	0.010	-6.7	50.0
4,6-Dinitro-2-methylphenol	0.152	0.107	0.010	-29.7	50.0
N-Nitrosodiphenylamine (1)	0.610	0.550	0.010	-9.8	50.0
1,2,4,5-Tetrachlorobenzene	1.610	1.613	0.010	0.2	50.0
4-Bromophenyl-phenylether	0.217	0.191	0.010	-11.6	50.0
Hexachlorobenzene	0.231	0.222	0.010	-3.7	50.0
Atrazine	0.220	0.228	0.010	3.7	50.0
Pentachlorophenol	0.113	0.093	0.010	-17.0	50.0
Phenanthrene	1.123	0.966	0.010	-14.0	50.0
Anthracene	1.142	0.947	0.010	-17.1	50.0
Carbazole	0.923	0.799	0.010	-13.4	50.0
Di-n-butylphthalate	0.991	0.976	0.010	-1.5	50.0
Fluoranthene	1.156	1.061	0.010	-8.2	50.0
Pyrene	1.604	1.513	0.010	-5.7	50.0
Butylbenzylphthalate	0.497	0.566	0.010	14.1	50.0
3,3'-Dichlorobenzidine	0.297	0.308	0.010	4.0	50.0
Benzo(a)anthracene	1.187	1.061	0.010	-10.6	50.0
Chrysene	1.047	1.027	0.010	-1.9	50.0
Bis(2-ethylhexyl)phthalate	0.608	0.784	0.010	29.0	50.0
Di-n-octylphthalate	1.456	1.836	0.010	26.1	50.0
Benzo(b)fluoranthene	1.298	1.503	0.010	15.8	50.0
Benzo(k)fluoranthene	1.501	1.213	0.010	-19.2	50.0
Benzo(a)pyrene	1.140	0.983	0.010	-13.8	50.0
Indeno(1,2,3-cd)pyrene	0.878	0.738	0.010	-16.0	50.0
Dibenzo(a,h)anthracene	0.723	0.593	0.010	-18.0	50.0
Benzo(g,h,i)perylene	0.724	0.589	0.010	-18.6	50.0
2,3,4,6-Tetrachlorophenol	0.348	0.341	0.010	-2.2	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: S2 Calibration Date: 11/04/2011 Time: 17:43

Lab File ID: S2H5234.D Init. Calib. Date(s): 10/25/2011 10/25/2011

EPA Sample No.(SSTD020##) SSTD0202T Init. Calib. Time(s): 11:35 13:07

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX %D
Phenol-d5	1.260	1.134	0.010	-10.0	50.0
Bis(2-chloroethyl)ether-d8	1.736	1.598	0.010	-7.9	50.0
2-Chlorophenol-d4	1.090	1.141	0.010	4.7	50.0
4-Methylphenol-d8	1.708	1.870	0.010	9.5	50.0
Nitrobenzene-d5	0.208	0.185	0.010	-11.0	50.0
2-Nitrophenol-d4	0.230	0.236	0.010	2.7	50.0
2,4-Dichlorophenol-d3	0.420	0.465	0.010	10.7	50.0
4-Chloroaniline-d4	0.373	0.413	0.010	10.8	50.0
Dimethylphthalate-d6	1.471	1.601	0.010	8.8	50.0
Acenaphthylene-d8	1.913	1.863	0.010	-2.6	50.0
4-Nitrophenol-d4	0.212	0.187	0.010	-11.8	50.0
Fluorene-d10	1.351	1.236	0.010	-8.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.156	0.120	0.010	-23.4	50.0
Anthracene-d10	1.143	1.031	0.010	-9.7	50.0
Pyrene-d10	1.260	1.285	0.010	2.0	50.0
Benzo(a)pyrene-d12	0.982	0.850	0.010	-13.4	50.0

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5189.D
Report Date: 07-Nov-2011 13:59

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5189.D
Lab Smp Id: SSTD0202P Client Smp ID: SSTD0202P
Inj Date : 03-NOV-2011 09:55
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0202P,SSTD0202P
Misc Info : 2,3
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_SOM.m
Meth Date : 07-Nov-2011 13:59 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Benzaldehyde	77	3.511	3.511	(0.903)	274839	40.0000	43
S	2 Phenol-d5	71	3.565	3.565	(0.917)	164178	40.0000	40
	3 Phenol	94	3.576	3.576	(0.920)	484853	40.0000	43
S	4 bis(2-Chloroethyl)ether-d8	67	3.619	3.619	(0.931)	230340	40.0000	41
	5 bis(2-Chloroethyl)ether	93	3.651	3.651	(0.939)	344549	40.0000	42
S	6 2-Chlorophenol-d4	132	3.694	3.694	(0.950)	146516	40.0000	41
	7 2-Chlorophenol	128	3.704	3.704	(0.953)	156589	40.0000	43
*	8 1,4-Dichlorobenzene-d4	152	3.887	3.887	(1.000)	129684	40.0000	(Q)
	9 2-Methylphenol	108	4.090	4.090	(1.052)	260266	40.0000	42
	10 2,2'-oxybis(1-Chloropropane)	45	4.112	4.112	(1.058)	354569	40.0000	43(Q)
S	11 4-Methylphenol-d8	113	4.198	4.198	(1.080)	244906	40.0000	44
	13 Acetophenone	105	4.208	4.208	(1.083)	455161	40.0000	43
	14 N-Nitroso-di-n-propylamine	70	4.219	4.219	(1.086)	238502	40.0000	47(Q)
	12 4-Methylphenol	108	4.219	4.219	(1.086)	270668	40.0000	43
	15 Hexachloroethane	117	4.305	4.305	(1.108)	111346	40.0000	39(Q)
S	16 Nitrobenzene-d5	128	4.337	4.337	(0.876)	82815	40.0000	36(Q)
	17 Nitrobenzene	77	4.358	4.358	(0.881)	427275	40.0000	37
	18 Isophorone	82	4.552	4.552	(0.920)	744184	40.0000	38
S	19 2-Nitrophenol-d4	143	4.616	4.616	(0.933)	102543	40.0000	40
	20 2-Nitrophenol	139	4.627	4.627	(0.935)	95662	40.0000	38
	21 2,4-Dimethylphenol	107	4.669	4.669	(0.944)	305490	40.0000	35(Q)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5189.D
Report Date: 07-Nov-2011 13:59

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22	bis(2-Chloroethoxy)methane	93	4.745	4.745	(0.959)	426028	40.0000	39
$	23	2,4-Dichlorophenol-d3	165	4.820	4.820	(0.974)	202210	40.0000	44
	24	2,4-Dichlorophenol	162	4.830	4.830	(0.976)	176640	40.0000	41
•	25	Naphthalene-d8	136	4.948	4.948	(1.000)	441173	40.0000	
	26	Naphthalene	128	4.970	4.970	(1.004)	425178	40.0000	37
$	27	4-Chloroaniline-d4	131	5.002	5.002	(1.011)	186457	40.0000	45(Q)
	28	4-Chloroaniline	127	5.013	5.013	(1.013)	187170	40.0000	41
	29	Hexachlorobutadiene	225	5.077	5.077	(1.026)	115372	40.0000	36
	30	Caprolactam	113	5.270	5.270	(1.065)	70672	40.0000	42
	31	4-Chloro-3-methylphenol	107	5.420	5.420	(1.095)	303282	40.0000	44
	32	2-Methylnaphthalene	142	5.549	5.549	(1.121)	325031	40.0000	42
	33	Hexachlorocyclopentadiene	237	5.688	5.688	(0.886)	152559	40.0000	41(Q)
	34	1,2,4,5-Tetrachlorobenzene	216	5.688	5.688	(0.886)	463824	40.0000	35
	35	2,4,6-Trichlorophenol	196	5.785	5.785	(0.901)	158049	40.0000	39
	36	2,4,5-Trichlorophenol	196	5.817	5.817	(0.906)	159451	40.0000	38
	37	1,1'-Biphenyl	154	5.935	5.935	(0.925)	482364	40.0000	41
	38	2-Chloronaphthalene	162	5.946	5.946	(0.926)	363810	40.0000	35
	39	2-Nitroaniline	65	6.031	6.031	(0.940)	201005	40.0000	40
$	40	Dimethylphthalate-d6	166	6.171	6.171	(0.962)	486959	40.0000	40
	41	Dimethylphthalate	163	6.192	6.192	(0.965)	450109	40.0000	40
	42	2,6-Dinitrotoluene	165	6.235	6.235	(0.972)	118618	40.0000	42
$	43	Acenaphthylene-d8	160	6.289	6.289	(0.980)	594500	40.0000	37
	44	Acenaphthylene	152	6.299	6.299	(0.982)	525319	40.0000	36
	45	3-Nitroaniline	138	6.375	6.375	(0.993)	80999	40.0000	43
•	46	Acenaphthene-d10	164	6.417	6.417	(1.000)	332463	40.0000	
	47	Acenaphthene	153	6.439	6.439	(1.003)	346892	40.0000	37
	48	2,4-Dinitrophenol	184	6.460	6.460	(1.007)	50548	40.0000	39(Q)
	52	Dibenzofuran	168	6.589	6.589	(1.027)	513345	40.0000	37
$	49	4-Nitrophenol-d4	143	6.503	6.503	(1.013)	67004	40.0000	38
	50	4-Nitrophenol	109	6.514	6.514	(1.015)	137613	40.0000	40
	51	2,4-Dinitrotoluene	165	6.568	6.568	(1.023)	151740	40.0000	42(Q)
	118	2,3,4,6-Tetrachlorophenol	232	6.686	6.686	(1.042)	111554	40.0000	39
	53	Diethylphthalate	149	6.771	6.771	(1.055)	444397	40.0000	42
$	54	Fluorene-d10	176	6.846	6.846	(1.067)	430338	40.0000	38
	56	Fluorene	166	6.868	6.868	(1.070)	457415	40.0000	41
	55	4-Chlorophenyl-phenylether	204	6.868	6.868	(1.070)	268733	40.0000	45
	57	4-Nitroaniline	138	6.879	6.879	(1.072)	85958	40.0000	42(Q)
$	58	4,6-Dinitro-2-methylphenol-d2	200	6.900	6.900	(0.903)	94202	40.0000	40
	59	4,6-Dinitro-2-methylphenol	198	6.911	6.911	(0.905)	81204	40.0000	35(Q)
	60	N-Nitrosodiphenylamine	169	6.964	6.964	(0.912)	373505	40.0000	41
	61	4-Bromophenyl-phenylether	248	7.275	7.275	(0.952)	124187	40.0000	38
	62	Hexachlorobenzene	284	7.329	7.329	(0.959)	127520	40.0000	37
	63	Atrazine	200	7.404	7.404	(0.969)	143086	40.0000	43
	64	Pentachlorophenol	266	7.490	7.490	(0.980)	72136	40.0000	43
•	65	Phenanthrene-d10	188	7.640	7.640	(1.000)	600388	40.0000	
	66	Phenanthrene	178	7.661	7.661	(1.003)	671664	40.0000	40
$	67	Anthracene-d10	188	7.694	7.694	(1.007)	639954	40.0000	37
	68	Anthracene	178	7.704	7.704	(1.008)	671101	40.0000	39
	117	Carbazole	167	7.833	7.833	(1.025)	522646	40.0000	38
	70	Di-n-butylphthalate	149	8.122	8.122	(1.063)	633700	40.0000	43
	71	Fluoranthene	202	8.659	8.659	(1.133)	684416	40.0000	39
$	72	Pyrene-d10	212	8.830	8.830	(0.891)	542841	40.0000	38
	73	Pyrene	202	8.852	8.852	(0.893)	692373	40.0000	38
	74	Butylbenzylphthalate	149	9.409	9.409	(0.949)	228435	40.0000	41

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5189.D
Report Date: 07-Nov-2011 13:59

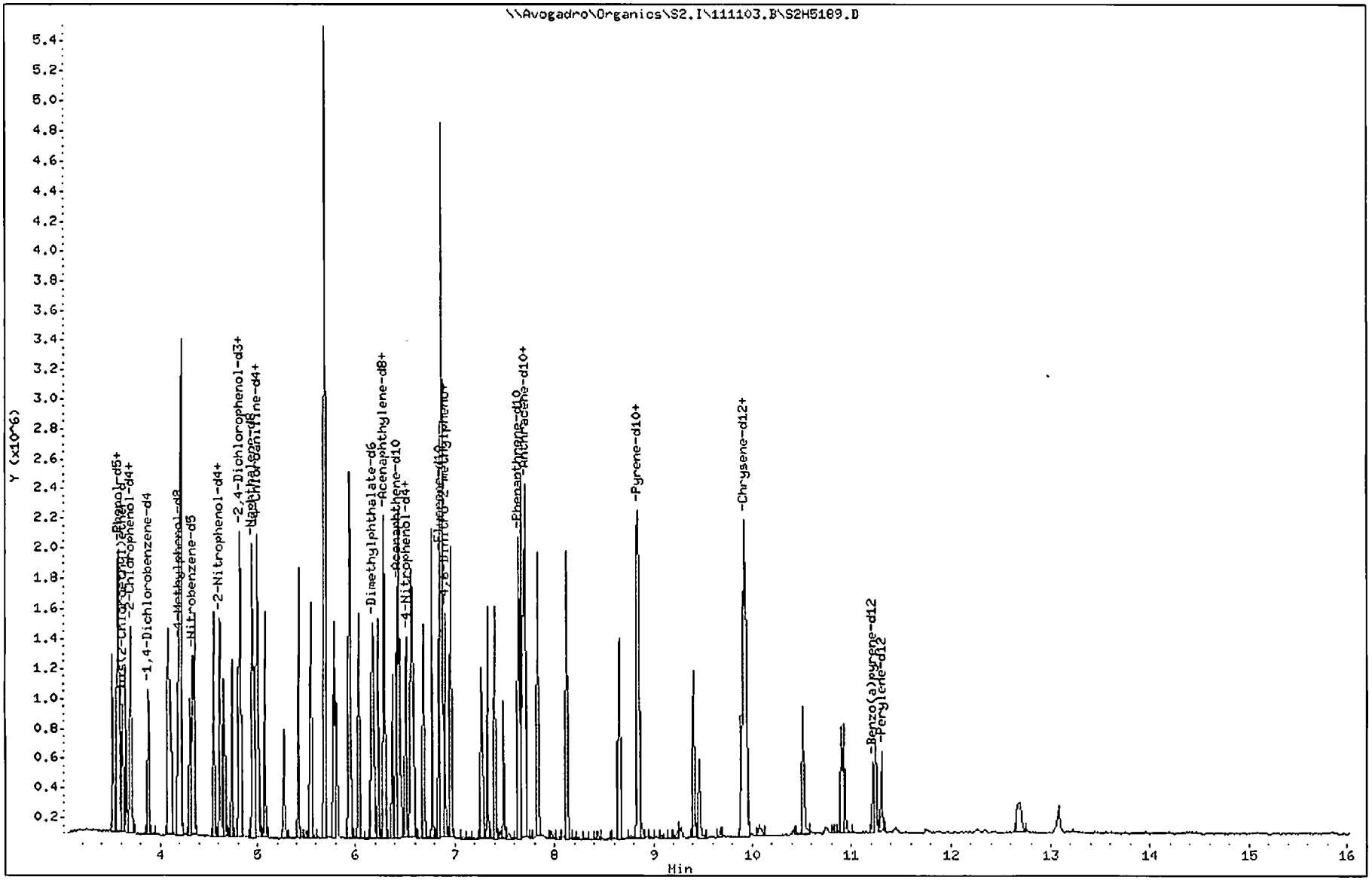
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	75 3,3'-Dichlorobenzidine	252	9.881	9.881	(0.997)	150447	40.0000	45
	76 Benzo(a)anthracene	228	9.903	9.903	(0.999)	486865	40.0000	36
*	77 Chrysene-d12	240	9.913	9.913	(1.000)	451332	40.0000	(Q)
	78 Chrysene	228	9.945	9.945	(1.003)	456793	40.0000	39
	79 bis(2-Ethylhexyl)phthalate	149	9.935	9.935	(1.002)	299362	40.0000	44
	80 Di-n-octylphthalate	149	10.514	10.514	(0.930)	428513	40.0000	46
	81 Benzo(b)fluoranthene	252	10.900	10.900	(0.964)	402504	40.0000	48
	82 Benzo(k)fluoranthene	252	10.932	10.932	(0.967)	337377	40.0000	35
$	83 Benzo(a)pyrene-d12	264	11.222	11.222	(0.992)	230145	40.0000	36
	84 Benzo(a)pyrene	252	11.243	11.243	(0.994)	272866	40.0000	37
*	85 Perylene-d12	264	11.307	11.307	(1.000)	257396	40.0000	
	86 Indeno(1,2,3-cd)pyrene	276	12.669	12.669	(1.120)	177306	40.0000	31
	87 Dibenzo(a,h)anthracene	278	12.701	12.701	(1.123)	146025	40.0000	31
	88 Benzo(g,h,i)perylene	276	13.077	13.077	(1.156)	140811	40.0000	30

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5189.D
Date : 03-NOV-2011 09:55
Client ID: SSTD0202P
Sample Info: SSTD0202P,SSTD0202P
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC:
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5202A.D
Report Date: 07-Nov-2011 14:01

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5202A.D
Lab Smp Id: SSTD0202Q Client Smp ID: SSTD0202Q
Inj Date : 03-NOV-2011 15:43
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0202Q,SSTD0202Q
Misc Info : 2,3
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_SOM.m
Meth Date : 07-Nov-2011 14:01 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Benzaldehyde	77	3.522	3.522	(0.906)	206595	40.0000	40
$	2 Phenol-d5	71	3.565	3.565	(0.917)	123051	40.0000	37
	3 Phenol	94	3.576	3.576	(0.920)	325301	40.0000	36
$	4 bis(2-Chloroethyl)ether-d8	67	3.619	3.619	(0.931)	175121	40.0000	38
	5 bis(2-Chloroethyl)ether	93	3.651	3.651	(0.939)	244118	40.0000	37
$	6 2-Chlorophenol-d4	132	3.694	3.694	(0.950)	111061	40.0000	39
	7 2-Chlorophenol	128	3.705	3.705	(0.953)	106409	40.0000	36
*	8 1,4-Dichlorobenzene-d4	152	3.887	3.887	(1.000)	105201	40.0000	(Q)
	9 2-Methylphenol	108	4.091	4.091	(1.052)	192371	40.0000	39
	10 2,2'-oxybis(1-Chloropropane)	45	4.112	4.112	(1.058)	235708	40.0000	35(Q)
$	11 4-Methylphenol-d8	113	4.198	4.198	(1.080)	182959	40.0000	41
	13 Acetophenone	105	4.219	4.219	(1.086)	337041	40.0000	39
	14 N-Nitroso-di-n-propylamine	70	4.219	4.219	(1.086)	171790	40.0000	41(Q)
	12 4-Methylphenol	108	4.219	4.219	(1.086)	206244	40.0000	40
	15 Hexachloroethane	117	4.316	4.316	(1.110)	87847	40.0000	38(Q)
$	16 Nitrobenzene-d5	128	4.348	4.348	(0.879)	59486	40.0000	38
	17 Nitrobenzene	77	4.359	4.359	(0.881)	310516	40.0000	39
	18 Isophorone	82	4.562	4.562	(0.922)	506982	40.0000	38
$	19 2-Nitrophenol-d4	143	4.616	4.616	(0.933)	69166	40.0000	40
	20 2-Nitrophenol	139	4.627	4.627	(0.935)	63885	40.0000	37
	21 2,4-Dimethylphenol	107	4.670	4.670	(0.944)	242035	40.0000	41(Q)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5202A.D
Report Date: 07-Nov-2011 14:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22 bis(2-Chloroethoxy)methane	93	4.745	4.745	(0.959)	307049	40.0000	41
S	23 2,4-Dichlorophenol-d3	165	4.820	4.820	(0.974)	134795	40.0000	42
	24 2,4-Dichlorophenol	162	4.831	4.831	(0.976)	127195	40.0000	44
*	25 Naphthalene-d8	136	4.948	4.948	(1.000)	302721	40.0000	
	26 Naphthalene	128	4.970	4.970	(1.004)	319834	40.0000	41
S	27 4-Chloroaniline-d4	131	5.002	5.002	(1.011)	126512	40.0000	45(Q)
	28 4-Chloroaniline	127	5.013	5.013	(1.013)	140723	40.0000	45
	29 Hexachlorobutadiene	225	5.088	5.088	(1.028)	85378	40.0000	39
	30 Caprolactam	113	5.270	5.270	(1.065)	42254	40.0000	36
	31 4-Chloro-3-methylphenol	107	5.420	5.420	(1.095)	199228	40.0000	42
	32 2-Methylnaphthalene	142	5.549	5.549	(1.121)	238157	40.0000	45
	33 Hexachlorocyclopentadiene	237	5.688	5.688	(0.886)	97302	40.0000	35(Q)
	34 1,2,4,5-Tetrachlorobenzene	216	5.688	5.688	(0.886)	309849	40.0000	31
	35 2,4,6-Trichlorophenol	196	5.785	5.785	(0.901)	109166	40.0000	36
	36 2,4,5-Trichlorophenol	196	5.817	5.817	(0.906)	115766	40.0000	37
	37 1,1'-Biphenyl	154	5.935	5.935	(0.925)	310697	40.0000	35
	38 2-Chloronaphthalene	162	5.957	5.957	(0.928)	261893	40.0000	33
	39 2-Nitroaniline	65	6.032	6.032	(0.940)	125832	40.0000	33
S	40 Dimethylphthalate-d6	166	6.171	6.171	(0.962)	357061	40.0000	39
	41 Dimethylphthalate	163	6.192	6.192	(0.965)	313484	40.0000	37
	42 2,6-Dinitrotoluene	165	6.235	6.235	(0.972)	81965	40.0000	39
S	43 Acenaphthylene-d8	160	6.289	6.289	(0.980)	410465	40.0000	35
	44 Acenaphthylene	152	6.300	6.300	(0.982)	386021	40.0000	36
	45 3-Nitroaniline	138	6.375	6.375	(0.993)	52211	40.0000	38
*	46 Acenaphthene-d10	164	6.418	6.418	(1.000)	247962	40.0000	
	47 Acenaphthene	153	6.439	6.439	(1.003)	229775	40.0000	33
	48 2,4-Dinitrophenol	184	6.461	6.461	(1.007)	24840	40.0000	26(Q)
	52 Dibenzofuran	168	6.589	6.589	(1.027)	357754	40.0000	35
S	49 4-Nitrophenol-d4	143	6.503	6.503	(1.013)	38831	40.0000	30
	50 4-Nitrophenol	109	6.514	6.514	(1.015)	77339	40.0000	30
	51 2,4-Dinitrotoluene	165	6.568	6.568	(1.023)	101425	40.0000	38(Q)
	118 2,3,4,6-Tetrachlorophenol	232	6.686	6.686	(1.042)	70921	40.0000	33
	53 Diethylphthalate	149	6.772	6.772	(1.055)	289280	40.0000	36
S	54 Fluorene-d10	176	6.847	6.847	(1.067)	315052	40.0000	38
	56 Fluorene	166	6.868	6.868	(1.070)	297544	40.0000	35
	55 4-Chlorophenyl-phenylether	204	6.868	6.868	(1.070)	178837	40.0000	40
	57 4-Nitroaniline	138	6.879	6.879	(1.072)	55248	40.0000	36(Q)
S	58 4,6-Dinitro-2-methylphenol-d2	200	6.900	6.900	(0.903)	54754	40.0000	37
	59 4,6-Dinitro-2-methylphenol	198	6.911	6.911	(0.905)	41808	40.0000	29(Q)
	60 N-Nitrosodiphenylamine	169	6.965	6.965	(0.912)	252165	40.0000	43
	61 4-Bromophenyl-phenylether	248	7.276	7.276	(0.952)	88673	40.0000	43
	62 Hexachlorobenzene	284	7.329	7.329	(0.959)	80868	40.0000	37
	63 Atrazine	200	7.404	7.404	(0.969)	91701	40.0000	44
	64 Pentachlorophenol	266	7.490	7.490	(0.980)	41214	40.0000	38
*	65 Phenanthrene-d10	188	7.640	7.640	(1.000)	382122	40.0000	
	66 Phenanthrene	178	7.662	7.662	(1.003)	406820	40.0000	38
S	67 Anthracene-d10	188	7.694	7.694	(1.007)	427980	40.0000	39
	68 Anthracene	178	7.704	7.704	(1.008)	436818	40.0000	40
	117 Carbazole	167	7.833	7.833	(1.025)	309867	40.0000	35
	70 Di-n-butylphthalate	149	8.123	8.123	(1.063)	396946	40.0000	42
	71 Fluoranthene	202	8.648	8.648	(1.132)	430238	40.0000	39
S	72 Pyrene-d10	212	8.820	8.820	(0.894)	317146	40.0000	40
	73 Pyrene	202	8.841	8.841	(0.896)	426680	40.0000	43
	74 Butylbenzylphthalate	149	9.377	9.377	(0.950)	129008	40.0000	42

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5202A.D
Report Date: 07-Nov-2011 14:01

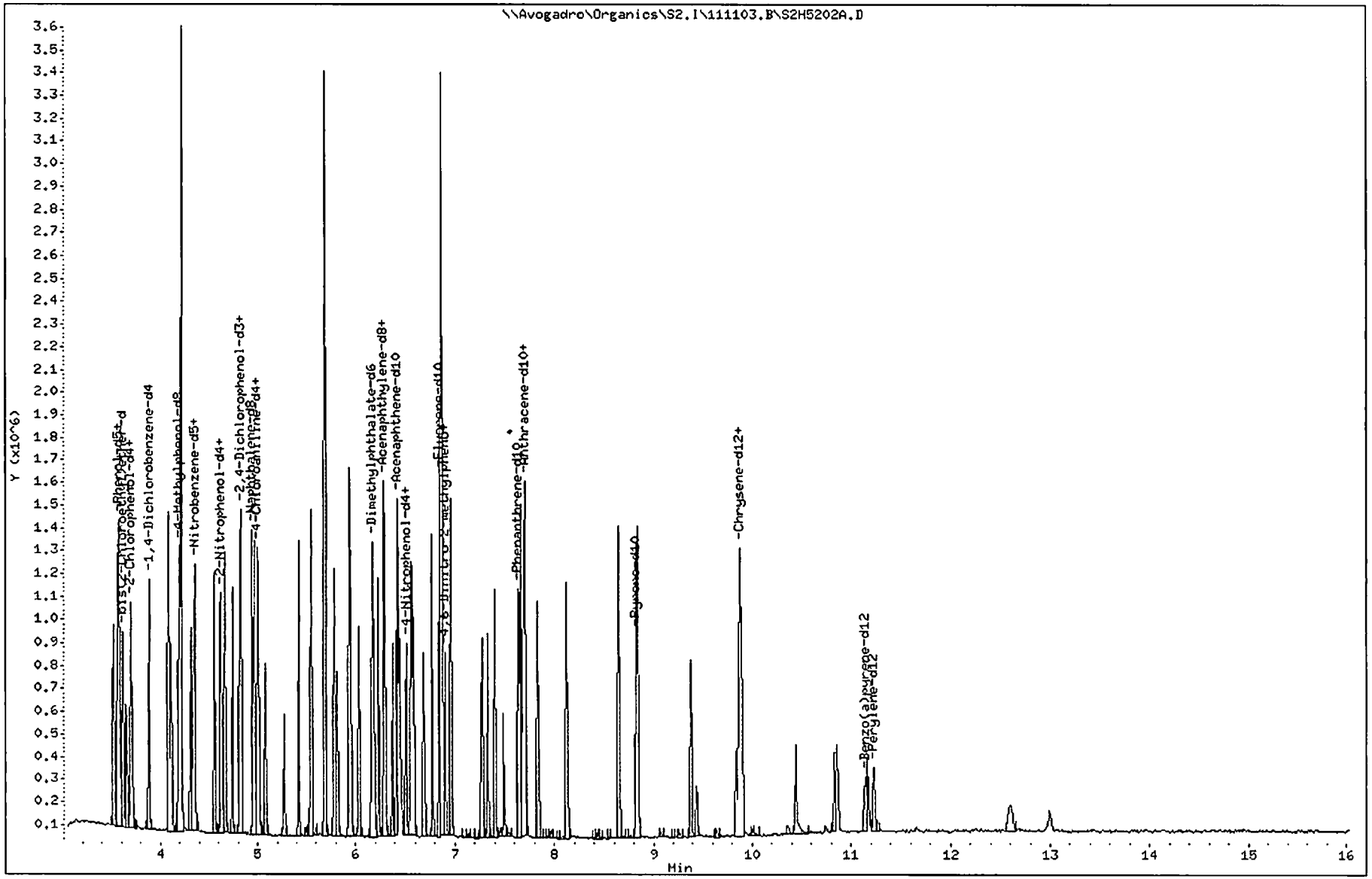
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	75 3,3'-Dichlorobenzidine	252	9.838	9.838	(0.997)	68958	40.0000	37
	76 Benzo(a)anthracene	228	9.871	9.871	(1.000)	268328	40.0000	36
*	77 Chrysene-d12	240	9.871	9.871	(1.000)	249238	40.0000	(Q)
	78 Chrysene	228	9.892	9.892	(1.002)	240101	40.0000	37
	79 bis(2-Ethylhexyl)phthalate	149	9.881	9.881	(1.001)	169165	40.0000	45
	80 Di-n-octylphthalate	149	10.439	10.439	(0.921)	190260	40.0000	39(H)
	81 Benzo(b)fluoranthene	252	10.836	10.836	(0.956)	179651	40.0000	41(H)
	82 Benzo(k)fluoranthene	252	10.857	10.857	(0.957)	186002	40.0000	37(H)
$	83 Benzo(a)pyrene-d12	264	11.147	11.147	(0.983)	116384	40.0000	35(H)
	84 Benzo(a)pyrene	252	11.168	11.168	(0.985)	138573	40.0000	36(H)
*	85 Perylene-d12	264	11.233	11.233	(1.000)	134073	40.0000	(H)
	86 Indeno(1,2,3-cd)pyrene	276	12.584	12.584	(1.110)	89675	40.0000	30(H)
	87 Dibenzo(a,h)anthracene	278	12.616	12.616	(1.113)	71817	40.0000	30(H)
	88 Benzo(g,h,i)perylene	276	12.991	12.991	(1.146)	70781	40.0000	29(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5202A.D
Date : 03-NOV-2011 15:43
Client ID: SSTD0202Q
Sample Info: SSTD0202Q,SSTD0202Q
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC:
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5223.D
Report Date: 07-Nov-2011 14:04

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5223.D
Lab Smp Id: SSTD0202R Client Smp ID: SSTD0202R
Inj Date : 03-NOV-2011 23:14
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0202R,SSTD0202R
Misc Info : 2,3
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_SOM.m
Meth Date : 07-Nov-2011 14:04 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Benzaldehyde	77	3.523	3.523	(0.906)	234815	40.0000	37
$	2 Phenol-d5	71	3.566	3.566	(0.917)	133626	40.0000	33
	3 Phenol	94	3.587	3.587	(0.923)	382639	40.0000	34
$	4 bis(2-Chloroethyl)ether-d8	67	3.620	3.620	(0.931)	204292	40.0000	36
	5 bis(2-Chloroethyl)ether	93	3.662	3.662	(0.942)	281087	40.0000	34
$	6 2-Chlorophenol-d4	132	3.695	3.695	(0.950)	127223	40.0000	36
	7 2-Chlorophenol	128	3.716	3.716	(0.956)	120055	40.0000	33
	8 1,4-Dichlorobenzene-d4	152	3.888	3.888	(1.000)	129461	40.0000	(Q)
	9 2-Methylphenol	108	4.091	4.091	(1.052)	220459	40.0000	36
	10 2,2'-oxybis(1-Chloropropane)	45	4.113	4.113	(1.058)	266972	40.0000	32(Q)
$	11 4-Methylphenol-d8	113	4.199	4.199	(1.080)	207984	40.0000	38
	13 Acetophenone	105	4.220	4.220	(1.085)	404636	40.0000	38
	14 N-Nitroso-di-n-propylamine	70	4.220	4.220	(1.085)	186820	40.0000	37(Q)
	12 4-Methylphenol	108	4.220	4.220	(1.085)	242633	40.0000	39
	15 Hexachloroethane	117	4.317	4.317	(1.110)	99810	40.0000	35(Q)
$	16 Nitrobenzene-d5	128	4.349	4.349	(0.879)	67814	40.0000	36
	17 Nitrobenzene	77	4.360	4.360	(0.881)	348467	40.0000	37
	18 Isophorone	82	4.563	4.563	(0.922)	602105	40.0000	37
$	19 2-Nitrophenol-d4	143	4.617	4.617	(0.933)	82225	40.0000	40
	20 2-Nitrophenol	139	4.628	4.628	(0.935)	76724	40.0000	38
	21 2,4-Dimethylphenol	107	4.670	4.670	(0.944)	272349	40.0000	38(Q)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5223.D
Report Date: 07-Nov-2011 14:04

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22	bis(2-Chloroethoxy)methane	93	4.746	4.746	(0.959)	365341	40.0000	41
$	23	2,4-Dichlorophenol-d3	165	4.821	4.821	(0.974)	156722	40.0000	41
	24	2,4-Dichlorophenol	162	4.831	4.831	(0.976)	146762	40.0000	42
*	25	Naphthalene-d8	136	4.949	4.949	(1.000)	361181	40.0000	
	26	Naphthalene	128	4.971	4.971	(1.004)	379748	40.0000	41
$	27	4-Chloroaniline-d4	131	5.003	5.003	(1.011)	136151	40.0000	40(Q)
	28	4-Chloroaniline	127	5.014	5.014	(1.013)	157060	40.0000	42
	29	Hexachlorobutadiene	225	5.089	5.089	(1.028)	100818	40.0000	39
	30	Caprolactam	113	5.282	5.282	(1.067)	48650	40.0000	35
	31	4-Chloro-3-methylphenol	107	5.421	5.421	(1.095)	222848	40.0000	39
	32	2-Methylnaphthalene	142	5.550	5.550	(1.121)	275142	40.0000	43
	33	Hexachlorocyclopentadiene	237	5.689	5.689	(0.886)	118306	40.0000	40(Q)
	34	1,2,4,5-Tetrachlorobenzene	216	5.689	5.689	(0.886)	386511	40.0000	36
	35	2,4,6-Trichlorophenol	196	5.786	5.786	(0.901)	132100	40.0000	40
	36	2,4,5-Trichlorophenol	196	5.818	5.818	(0.906)	132004	40.0000	39
	37	1,1'-Biphenyl	154	5.936	5.936	(0.925)	352575	40.0000	38
	38	2-Chloronaphthalene	162	5.957	5.957	(0.928)	293868	40.0000	35
	39	2-Nitroaniline	65	6.032	6.032	(0.940)	130551	40.0000	32
$	40	Dimethylphthalate-d6	166	6.172	6.172	(0.962)	395088	40.0000	40
	41	Dimethylphthalate	163	6.193	6.193	(0.965)	350700	40.0000	39
	42	2,6-Dinitrotoluene	165	6.236	6.236	(0.972)	91605	40.0000	41
$	43	Acenaphthylene-d8	160	6.290	6.290	(0.980)	473820	40.0000	37
	44	Acenaphthylene	152	6.300	6.300	(0.982)	435552	40.0000	38
	45	3-Nitroaniline	138	6.376	6.376	(0.993)	57099	40.0000	38
*	46	Acenaphthene-d10	164	6.418	6.418	(1.000)	265645	40.0000	
	47	Acenaphthene	153	6.440	6.440	(1.003)	262566	40.0000	35
	48	2,4-Dinitrophenol	184	6.461	6.461	(1.007)	21589	40.0000	21(Q)
	52	Dibenzofuran	168	6.590	6.590	(1.027)	407326	40.0000	37
$	49	4-Nitrophenol-d4	143	6.515	6.515	(1.015)	39567	40.0000	28
	50	4-Nitrophenol	109	6.515	6.515	(1.015)	78195	40.0000	29
	51	2,4-Dinitrotoluene	165	6.569	6.569	(1.023)	118788	40.0000	42(Q)
	118	2,3,4,6-Tetrachlorophenol	232	6.687	6.687	(1.042)	86165	40.0000	37
	53	Diethylphthalate	149	6.772	6.772	(1.055)	333097	40.0000	39
$	54	Fluorene-d10	176	6.847	6.847	(1.067)	354082	40.0000	39
	56	Fluorene	166	6.869	6.869	(1.070)	348842	40.0000	39
	55	4-Chlorophenyl-phenylether	204	6.869	6.869	(1.070)	202938	40.0000	42
	57	4-Nitroaniline	138	6.880	6.880	(1.072)	53020	40.0000	32
$	58	4,6-Dinitro-2-methylphenol-d2	200	6.901	6.901	(0.903)	53440	40.0000	32
	59	4,6-Dinitro-2-methylphenol	198	6.912	6.912	(0.905)	44324	40.0000	27(Q)
	60	N-Nitrosodiphenylamine	169	6.965	6.965	(0.912)	280495	40.0000	42
	61	4-Bromophenyl-phenylether	248	7.276	7.276	(0.952)	105908	40.0000	45
	62	Hexachlorobenzene	284	7.330	7.330	(0.959)	97082	40.0000	39
	63	Atrazine	200	7.405	7.405	(0.969)	102622	40.0000	43
	64	Pentachlorophenol	266	7.491	7.491	(0.980)	49292	40.0000	40
*	65	Phenanthrene-d10	188	7.641	7.641	(1.000)	434208	40.0000	
	66	Phenanthrene	178	7.662	7.662	(1.003)	455772	40.0000	37
$	67	Anthracene-d10	188	7.695	7.695	(1.007)	468360	40.0000	38
	68	Anthracene	178	7.705	7.705	(1.008)	472190	40.0000	38
	117	Carbazole	167	7.834	7.834	(1.025)	326582	40.0000	33
	70	Di-n-butylphthalate	149	8.123	8.123	(1.063)	416071	40.0000	39
	71	Fluoranthene	202	8.660	8.660	(1.133)	460996	40.0000	37
$	72	Pyrene-d10	212	8.831	8.831	(0.899)	344045	40.0000	43(H)
	73	Pyrene	202	8.853	8.853	(0.901)	451227	40.0000	44(H)
	74	Butylbenzylphthalate	149	9.410	9.410	(0.957)	148164	40.0000	47

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5223.D
Report Date: 07-Nov-2011 14:04

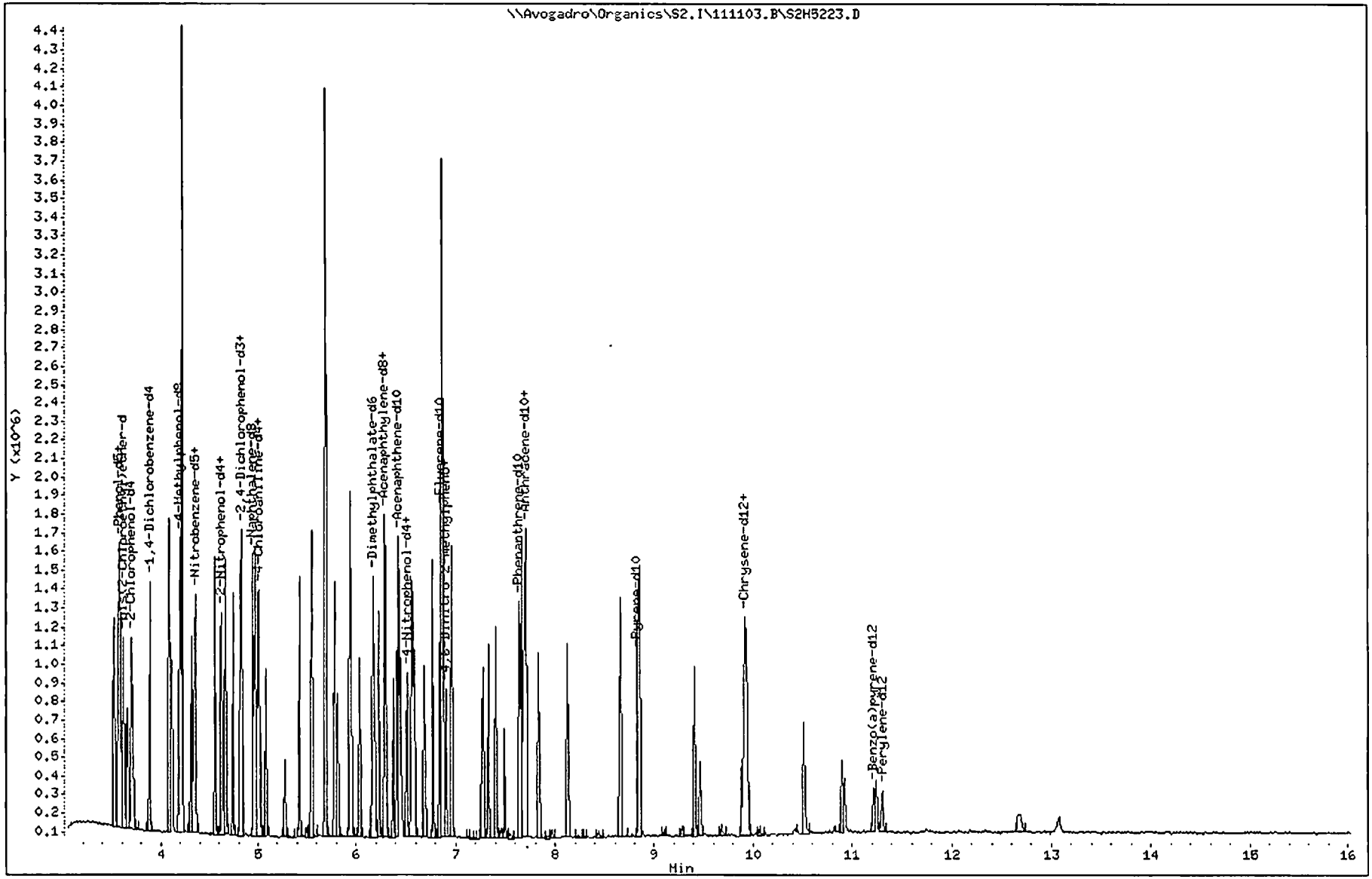
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	75 3,3'-Dichlorobenzidine	252	9.882	9.882	(1.005)	69150	40.0000	37(H)
	76 Benzo(a)anthracene	228	9.914	9.914	(1.009)	266770	40.0000	35
*	77 Chrysene-d12	240	9.914	9.914	(1.000)	254724	40.0000	(QH)
	78 Chrysene	228	9.946	9.946	(1.012)	250473	40.0000	38(H)
	79 bis(2-Ethylhexyl)phthalate	149	9.936	9.936	(1.011)	192432	40.0000	50(H)
	80 Di-n-octylphthalate	149	10.515	10.515	(0.930)	275871	40.0000	59(H)
	81 Benzo(b)fluoranthene	252	10.901	10.901	(0.964)	166060	40.0000	40(H)
	82 Benzo(k)fluoranthene	252	10.933	10.933	(0.967)	191725	40.0000	40
$	83 Benzo(a)pyrene-d12	264	11.212	11.212	(0.991)	111480	40.0000	36
	84 Benzo(a)pyrene	252	11.244	11.244	(0.994)	128118	40.0000	35
*	85 Perylene-d12	264	11.308	11.308	(1.000)	127467	40.0000	
	86 Indeno(1,2,3-cd)pyrene	276	12.670	12.670	(1.120)	82529	40.0000	29
	87 Dibenzo(a,h)anthracene	278	12.692	12.692	(1.122)	69066	40.0000	30
	88 Benzo(g,h,i)perylene	276	13.078	13.078	(1.156)	72908	40.0000	32

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5223.D
Date : 03-NOV-2011 23:14
Client ID: SSTD0202R
Sample Info: SSTD0202R,SSTD0202R
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC:
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5225.D
Report Date: 07-Nov-2011 13:26

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111104.B\S2H5225.D
Lab Smp Id: SSTD0202S Client Smp ID: SSTD0202S
Inj Date : 04-NOV-2011 13:08
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0202S,SSTD0202S
Misc Info : 2,3
Comment :
Method : \\Avogadro\Organics\S2.I\111104.B\S2_SOM.m
Meth Date : 07-Nov-2011 13:26 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 Benzaldehyde	77	3.447	3.447	(0.902)	160557	40.0000	37
s	2 Phenol-d5	71	3.500	3.500	(0.916)	103602	40.0000	37
	3 Phenol	94	3.511	3.511	(0.919)	274935	40.0000	36
s	4 bis(2-Chloroethyl)ether-d8	67	3.554	3.554	(0.930)	142662	40.0000	37
	5 bis(2-Chloroethyl)ether	93	3.586	3.586	(0.938)	206225	40.0000	37
s	6 2-Chlorophenol-d4	132	3.629	3.629	(0.950)	92298	40.0000	38
	7 2-Chlorophenol	128	3.640	3.640	(0.952)	96066	40.0000	39
*	8 1,4-Dichlorobenzene-d4	152	3.822	3.822	(1.000)	88620	40.0000	(Q)
	9 2-Methylphenol	108	4.026	4.026	(1.053)	161907	40.0000	39
	10 2,2'-oxybis(1-Chloropropane)	45	4.047	4.047	(1.059)	205596	40.0000	36
s	11 4-Methylphenol-d8	113	4.133	4.133	(1.081)	149805	40.0000	40
	13 Acetophenone	105	4.154	4.154	(1.087)	262527	40.0000	36
	14 N-Nitroso-di-n-propylamine	70	4.154	4.154	(1.087)	128747	40.0000	37(Q)
	12 4-Methylphenol	108	4.154	4.154	(1.087)	170682	40.0000	40
	15 Hexachloroethane	117	4.251	4.251	(1.112)	74296	40.0000	38(Q)
s	16 Nitrobenzene-d5	128	4.283	4.283	(0.877)	47144	40.0000	36
	17 Nitrobenzene	77	4.294	4.294	(0.879)	232982	40.0000	36
	18 Isophorone	82	4.498	4.498	(0.921)	428777	40.0000	39
s	19 2-Nitrophenol-d4	143	4.551	4.551	(0.932)	56180	40.0000	39
	20 2-Nitrophenol	139	4.562	4.562	(0.934)	49943	40.0000	36
	21 2,4-Dimethylphenol	107	4.605	4.605	(0.943)	194027	40.0000	40(Q)

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5225.D
Report Date: 07-Nov-2011 13:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22 bis(2-Chloroethoxy)methane	93	4.680	4.680	(0.958)	238539	40.0000	39
$	23 2,4-Dichlorophenol-d3	165	4.755	4.755	(0.974)	111238	40.0000	43
	24 2,4-Dichlorophenol	162	4.766	4.766	(0.976)	99539	40.0000	41
*	25 Naphthalene-d8	136	4.884	4.884	(1.000)	249024	40.0000	
	26 Naphthalene	128	4.905	4.905	(1.004)	261338	40.0000	41
$	27 4-Chloroaniline-d4	131	4.937	4.937	(1.011)	95528	40.0000	41(Q)
	28 4-Chloroaniline	127	4.948	4.948	(1.013)	111236	40.0000	43
	29 Hexachlorobutadiene	225	5.023	5.023	(1.029)	69427	40.0000	39
	30 Caprolactam	113	5.205	5.205	(1.066)	39278	40.0000	41
	31 4-Chloro-3-methylphenol	107	5.356	5.356	(1.097)	150259	40.0000	39
	32 2-Methylnaphthalene	142	5.484	5.484	(1.123)	186006	40.0000	42
	33 Hexachlorocyclopentadiene	237	5.624	5.624	(0.885)	74696	40.0000	37(Q)
	34 1,2,4,5-Tetrachlorobenzene	216	5.624	5.624	(0.885)	249889	40.0000	34
	35 2,4,6-Trichlorophenol	196	5.720	5.720	(0.900)	80587	40.0000	36
	36 2,4,5-Trichlorophenol	196	5.752	5.752	(0.905)	96677	40.0000	42
	37 1,1'-Biphenyl	154	5.870	5.870	(0.924)	234109	40.0000	36
	38 2-Chloronaphthalene	162	5.892	5.892	(0.927)	206522	40.0000	36
	39 2-Nitroaniline	65	5.967	5.967	(0.939)	94278	40.0000	34
$	40 Dimethylphthalate-d6	166	6.106	6.106	(0.961)	271832	40.0000	41
	41 Dimethylphthalate	163	6.128	6.128	(0.965)	252037	40.0000	40
	42 2,6-Dinitrotoluene	165	6.170	6.170	(0.971)	61844	40.0000	40
$	43 Acenaphthylene-d8	160	6.224	6.224	(0.980)	298966	40.0000	34
	44 Acenaphthylene	152	6.235	6.235	(0.981)	281545	40.0000	36
	45 3-Nitroaniline	138	6.310	6.310	(0.993)	39196	40.0000	38
*	46 Acenaphthene-d10	164	6.353	6.353	(1.000)	181712	40.0000	
	47 Acenaphthene	153	6.374	6.374	(1.003)	178954	40.0000	35
	48 2,4-Dinitrophenol	184	6.396	6.396	(1.007)	22167	40.0000	31
	52 Dibenzofuran	168	6.524	6.524	(1.027)	269549	40.0000	36
$	49 4-Nitrophenol-d4	143	6.449	6.449	(1.015)	31698	40.0000	33
	50 4-Nitrophenol	109	6.449	6.449	(1.015)	60238	40.0000	32
	51 2,4-Dinitrotoluene	165	6.503	6.503	(1.024)	67971	40.0000	35(Q)
	118 2,3,4,6-Tetrachlorophenol	232	6.632	6.632	(1.044)	53214	40.0000	34
	53 Diethylphthalate	149	6.707	6.707	(1.056)	192489	40.0000	33
$	54 Fluorene-d10	176	6.782	6.782	(1.068)	227781	40.0000	37
	56 Fluorene	166	6.803	6.803	(1.071)	225431	40.0000	37
	55 4-Chlorophenyl-phenylether	204	6.803	6.803	(1.071)	125305	40.0000	38
	57 4-Nitroaniline	138	6.814	6.814	(1.073)	40540	40.0000	36
$	58 4,6-Dinitro-2-methylphenol-d2	200	6.835	6.835	(0.902)	41274	40.0000	37
	59 4,6-Dinitro-2-methylphenol	198	6.846	6.846	(0.904)	38071	40.0000	35(Q)
	60 N-Nitrosodiphenylamine	169	6.900	6.900	(0.911)	184585	40.0000	42
	61 4-Bromophenyl-phenylether	248	7.211	7.211	(0.952)	66869	40.0000	43
	62 Hexachlorobenzene	284	7.264	7.264	(0.959)	61947	40.0000	38
	63 Atrazine	200	7.339	7.339	(0.969)	62414	40.0000	40
	64 Pentachlorophenol	266	7.425	7.425	(0.980)	28052	40.0000	35
*	65 Phenanthrene-d10	188	7.575	7.575	(1.000)	285205	40.0000	
	66 Phenanthrene	178	7.597	7.597	(1.003)	322972	40.0000	40
$	67 Anthracene-d10	188	7.629	7.629	(1.007)	299843	40.0000	37
	68 Anthracene	178	7.640	7.640	(1.008)	316891	40.0000	39
	117 Carbazole	167	7.768	7.768	(1.025)	234787	40.0000	36
	70 Di-n-butylphthalate	149	8.069	8.069	(1.065)	318521	40.0000	45
	71 Fluoranthene	202	8.594	8.594	(1.134)	319650	40.0000	39
$	72 Pyrene-d10	212	8.776	8.776	(0.888)	265986	40.0000	40
	73 Pyrene	202	8.798	8.798	(0.890)	321090	40.0000	38
	74 Butylbenzylphthalate	149	9.366	9.366	(0.948)	108597	40.0000	42

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5225.D
Report Date: 07-Nov-2011 13:26

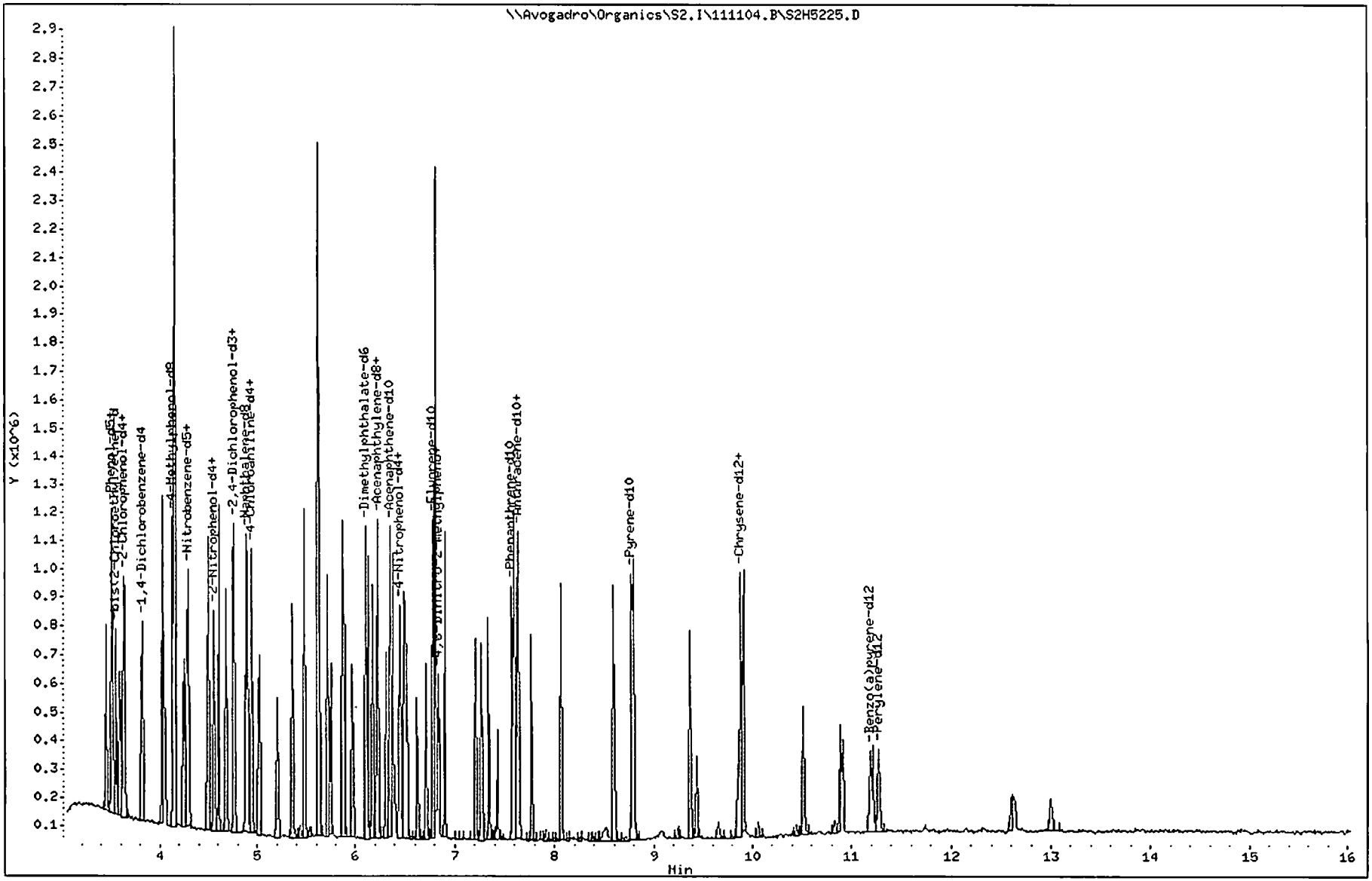
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	75 3,3'-Dichlorobenzidine	252	9.859	9.859	(0.998)	65056	40.0000	42
	76 Benzo(a)anthracene	228	9.870	9.870	(0.999)	221226	40.0000	36
*	77 Chrysene-d12	240	9.881	9.881	(1.000)	209242	40.0000	(Q)
	78 Chrysene	228	9.913	9.913	(1.003)	204061	40.0000	37
	79 bis(2-Ethylhexyl)phthalate	149	9.913	9.913	(1.003)	146552	40.0000	46
	80 Di-n-octylphthalate	149	10.514	10.514	(0.932)	213568	40.0000	43
	81 Benzo(b)fluoranthene	252	10.878	10.878	(0.965)	205485	40.0000	46
	82 Benzo(k)fluoranthene	252	10.910	10.910	(0.968)	156816	40.0000	30
$	83 Benzo(a)pyrene-d12	264	11.189	11.189	(0.992)	122435	40.0000	36
	84 Benzo(a)pyrene	252	11.211	11.211	(0.994)	141946	40.0000	36
*	85 Perylene-d12	264	11.275	11.275	(1.000)	137943	40.0000	
	86 Indeno(1,2,3-cd)pyrene	276	12.605	12.605	(1.118)	103479	40.0000	34
	87 Dibenzo(a,h)anthracene	278	12.637	12.637	(1.121)	80291	40.0000	32
	88 Benzo(g,h,i)perylene	276	13.001	13.001	(1.153)	86319	40.0000	35

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5225.D
Date : 04-NOV-2011 13:08
Client ID: SSTD0202S
Sample Info: SSTD0202S,SSTD0202S
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC:
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5234.D
Report Date: 07-Nov-2011 13:27

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111104.B\S2H5234.D
Lab Smp Id: SSTD0202T Client Smp ID: SSTD0202T
Inj Date : 04-NOV-2011 17:43
Operator : SRC: Inst ID: S2.i
Smp Info : SSTD0202T,SSTD0202T
Misc Info : 2,3
Comment :
Method : \\Avogadro\Organics\S2.I\111104.B\S2_SOM.m
Meth Date : 07-Nov-2011 13:27 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	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)
	1 Benzaldehyde	77	3.445	3.445	(0.904)	165454	40.0000	41
$	2 Phenol-d5	71	3.498	3.498	(0.918)	92124	40.0000	36(Q)
	3 Phenol	94	3.509	3.509	(0.921)	277988	40.0000	40
$	4 bis(2-Chloroethyl)ether-d8	67	3.552	3.552	(0.932)	129828	40.0000	37
	5 bis(2-Chloroethyl)ether	93	3.584	3.584	(0.941)	204305	40.0000	40
$	6 2-Chlorophenol-d4	132	3.627	3.627	(0.952)	92703	40.0000	42
	7 2-Chlorophenol	128	3.638	3.638	(0.955)	96877	40.0000	43
*	8 1,4-Dichlorobenzene-d4	152	3.809	3.809	(1.000)	81255	40.0000	(Q)
	9 2-Methylphenol	108	4.024	4.024	(1.056)	159828	40.0000	41
	10 2,2'-oxybis(1-Chloropropane)	45	4.045	4.045	(1.062)	183429	40.0000	35(Q)
$	11 4-Methylphenol-d8	113	4.131	4.131	(1.084)	151930	40.0000	44
	13 Acetophenone	105	4.142	4.142	(1.087)	248642	40.0000	37
	14 N-Nitroso-di-n-propylamine	70	4.153	4.153	(1.090)	137359	40.0000	43(Q)
	12 4-Methylphenol	108	4.153	4.153	(1.090)	162040	40.0000	41
	15 Hexachloroethane	117	4.238	4.238	(1.113)	71793	40.0000	41(Q)
$	16 Nitrobenzene-d5	128	4.270	4.270	(0.875)	45168	40.0000	36
	17 Nitrobenzene	77	4.292	4.292	(0.879)	218363	40.0000	34
	18 Isophorone	82	4.496	4.496	(0.921)	408102	40.0000	38
$	19 2-Nitrophenol-d4	143	4.549	4.549	(0.932)	57555	40.0000	41
	20 2-Nitrophenol	139	4.560	4.560	(0.934)	50543	40.0000	37
	21 2,4-Dimethylphenol	107	4.603	4.603	(0.943)	188942	40.0000	40(Q)

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5234.D
Report Date: 07-Nov-2011 13:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	22 bis(2-Chloroethoxy)methane	93	4.678	4.678	(0.958)	243449	40.0000	40
$	23 2,4-Dichlorophenol-d3	165	4.753	4.753	(0.974)	113221	40.0000	44
	24 2,4-Dichlorophenol	162	4.764	4.764	(0.976)	100821	40.0000	43
*	25 Naphthalene-d8	136	4.882	4.882	(1.000)	243679	40.0000	
	26 Naphthalene	128	4.892	4.892	(1.002)	240419	40.0000	38
$	27 4-Chloroaniline-d4	131	4.935	4.935	(1.011)	100621	40.0000	44(Q)
	28 4-Chloroaniline	127	4.946	4.946	(1.013)	98245	40.0000	39
	29 Hexachlorobutadiene	225	5.010	5.010	(1.026)	69144	40.0000	40
	30 Caprolactam	113	5.203	5.203	(1.066)	38332	40.0000	41
	31 4-Chloro-3-methylphenol	107	5.354	5.354	(1.097)	161882	40.0000	42
	32 2-Methylnaphthalene	142	5.482	5.482	(1.123)	170252	40.0000	40
	33 Hexachlorocyclopentadiene	237	5.622	5.622	(0.887)	76970	40.0000	40(Q)
	34 1,2,4,5-Tetrachlorobenzene	216	5.622	5.622	(0.887)	277060	40.0000	40
	35 2,4,6-Trichlorophenol	196	5.718	5.718	(0.902)	84304	40.0000	40
	36 2,4,5-Trichlorophenol	196	5.750	5.750	(0.907)	85678	40.0000	39
	37 1,1'-Biphenyl	154	5.868	5.868	(0.926)	245708	40.0000	40
	38 2-Chloronaphthalene	162	5.879	5.879	(0.927)	199562	40.0000	37
	39 2-Nitroaniline	65	5.965	5.965	(0.941)	96268	40.0000	37
$	40 Dimethylphthalate-d6	166	6.104	6.104	(0.963)	274899	40.0000	44
	41 Dimethylphthalate	163	6.126	6.126	(0.966)	230231	40.0000	39
	42 2,6-Dinitrotoluene	165	6.169	6.169	(0.973)	61488	40.0000	42
$	43 Acenaphthylene-d8	160	6.211	6.211	(0.980)	319874	40.0000	39
	44 Acenaphthylene	152	6.222	6.222	(0.981)	277389	40.0000	37
	45 3-Nitroaniline	138	6.308	6.308	(0.995)	40333	40.0000	42(Q)
*	46 Acenaphthene-d10	164	6.340	6.340	(1.000)	171740	40.0000	
	47 Acenaphthene	153	6.372	6.372	(1.005)	190743	40.0000	39
	48 2,4-Dinitrophenol	184	6.394	6.394	(1.008)	18626	40.0000	28(Q)
	52 Dibenzofuran	168	6.512	6.512	(1.027)	271473	40.0000	38
$	49 4-Nitrophenol-d4	143	6.447	6.447	(1.017)	32117	40.0000	35
	50 4-Nitrophenol	109	6.447	6.447	(1.017)	60028	40.0000	34
	51 2,4-Dinitrotoluene	165	6.501	6.501	(1.025)	79070	40.0000	43(Q)
	118 2,3,4,6-Tetrachlorophenol	232	6.619	6.619	(1.044)	58495	40.0000	39
	53 Diethylphthalate	149	6.705	6.705	(1.058)	234072	40.0000	42
$	54 Fluorene-d10	176	6.769	6.769	(1.068)	212248	40.0000	37
	56 Fluorene	166	6.801	6.801	(1.073)	230140	40.0000	40
	55 4-Chlorophenyl-phenylether	204	6.801	6.801	(1.073)	140068	40.0000	45
	57 4-Nitroaniline	138	6.812	6.812	(1.074)	39484	40.0000	37(Q)
$	58 4,6-Dinitro-2-methylphenol-d2	200	6.833	6.833	(0.902)	40330	40.0000	31
	59 4,6-Dinitro-2-methylphenol	198	6.833	6.833	(0.902)	36125	40.0000	28(Q)
	60 N-Nitrosodiphenylamine	169	6.898	6.898	(0.911)	185531	40.0000	36
	61 4-Bromophenyl-phenylether	248	7.209	7.209	(0.952)	64549	40.0000	35
	62 Hexachlorobenzene	284	7.262	7.262	(0.959)	74895	40.0000	39
	63 Atrazine	200	7.337	7.337	(0.969)	76898	40.0000	41
	64 Pentachlorophenol	266	7.423	7.423	(0.980)	31493	40.0000	33
*	65 Phenanthrene-d10	188	7.573	7.573	(1.000)	337180	40.0000	
	66 Phenanthrene	178	7.595	7.595	(1.003)	325553	40.0000	34
$	67 Anthracene-d10	188	7.616	7.616	(1.006)	347745	40.0000	36
	68 Anthracene	178	7.638	7.638	(1.008)	319328	40.0000	33
	117 Carbazole	167	7.766	7.766	(1.025)	269407	40.0000	35
	70 Di-n-butylphthalate	149	8.056	8.056	(1.064)	329245	40.0000	39
	71 Fluoranthene	202	8.581	8.581	(1.133)	357599	40.0000	37
$	72 Pyrene-d10	212	8.764	8.764	(0.890)	294327	40.0000	41(H)
	73 Pyrene	202	8.774	8.774	(0.891)	346588	40.0000	38
	74 Butylbenzylphthalate	149	9.343	9.343	(0.949)	129746	40.0000	46

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5234.D
Report Date: 07-Nov-2011 13:27

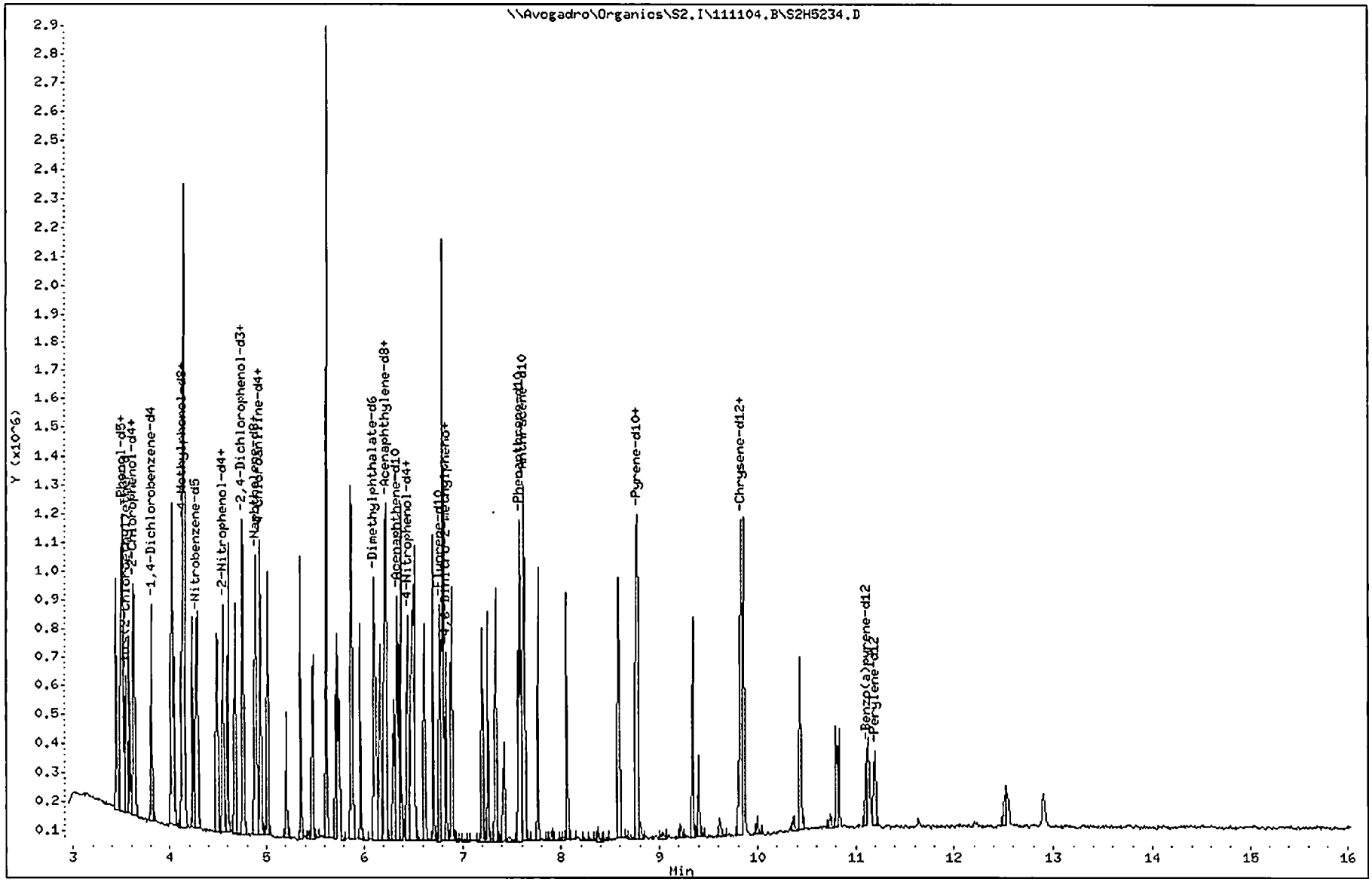
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
75 3,3'-Dichlorobenzidine	252	9.815	9.815	(0.997)	70651	40.0000	42
76 Benzo(a)anthracene	228	9.836	9.836	(0.999)	243046	40.0000	36
* 77 Chrysene-d12	240	9.847	9.847	(1.000)	229076	40.0000	(Q)
78 Chrysene	228	9.868	9.868	(1.002)	235211	40.0000	39
79 bis(2-Ethylhexyl)phthalate	149	9.857	9.857	(1.001)	179559	40.0000	52
80 Di-n-octylphthalate	149	10.437	10.437	(0.922)	250129	40.0000	50(H)
81 Benzo(b)fluoranthene	252	10.801	10.801	(0.955)	204833	40.0000	46(H)
82 Benzo(k)fluoranthene	252	10.833	10.833	(0.957)	165243	40.0000	32(H)
$ 83 Benzo(a)pyrene-d12	264	11.112	11.112	(0.982)	115840	40.0000	35(H)
84 Benzo(a)pyrene	252	11.134	11.134	(0.984)	133946	40.0000	34(H)
* 85 Perylene-d12	264	11.198	11.198	(1.000)	136265	40.0000	(H)
86 Indeno(1,2,3-cd)pyrene	276	12.506	12.506	(1.105)	100565	40.0000	34(H)
87 Dibenzo(a,h)anthracene	278	12.538	12.538	(1.108)	80866	40.0000	33(H)
88 Benzo(g,h,i)perylene	276	12.903	12.903	(1.140)	80262	40.0000	33(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5234.D
Date : 04-NOV-2011 17:43
Client ID: SSTD0202T
Sample Info: SSTD0202T,SSTD0202T
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC:
Column diameter: 0.25



Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S2.I\111025.B\S2H5052.D
Lab Smp Id: DFTPP2W Client Smp ID: DFTPP2W
Inj Date : 25-OCT-2011 09:32
Operator : SRC: Inst ID: S2.i
Smp Info : DFTPP2W,DFTPP2W
Misc Info : 3,3
Comment :
Method : \\Avogadro\Organics\S2.I\111025.B\S2_dftppSOM.m
Meth Date : 19-Oct-2011 10:51 mscarpaci 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: TARGET104

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

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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.674	6.035	-0.361	198	237696			0.00- 100.00	100.00
5.674	6.035	-0.361	51	145024			10.00- 80.00	61.01
5.674	6.035	-0.361	68	0	0.0	0.0	0.00- 2.00	0.00
5.674	6.035	-0.361	69	199040			0.00- 0.00	83.74
5.674	6.035	-0.361	70	0	0.0	0.0	0.00- 2.00	0.00
5.674	6.035	-0.361	127	111936			10.00- 80.00	47.09
5.674	6.035	-0.361	197	0	0.0	0.0	0.00- 2.00	0.00
5.674	6.035	-0.361	199	16123			5.00- 9.00	6.78
5.674	6.035	-0.361	275	36352			10.00- 60.00	15.29
5.674	6.035	-0.361	365	3657			1.00- 0.00	1.54
5.674	6.035	-0.361	441	21896			0.01- 99.99	91.26
5.674	6.035	-0.361	442	124880			50.00- 100.00	52.54
5.674	6.035	-0.361	443	23992			15.00- 24.00	19.21

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5052.D

Date : 25-OCT-2011 09:32

Client ID: DFTPP2W

Instrument: S2.i

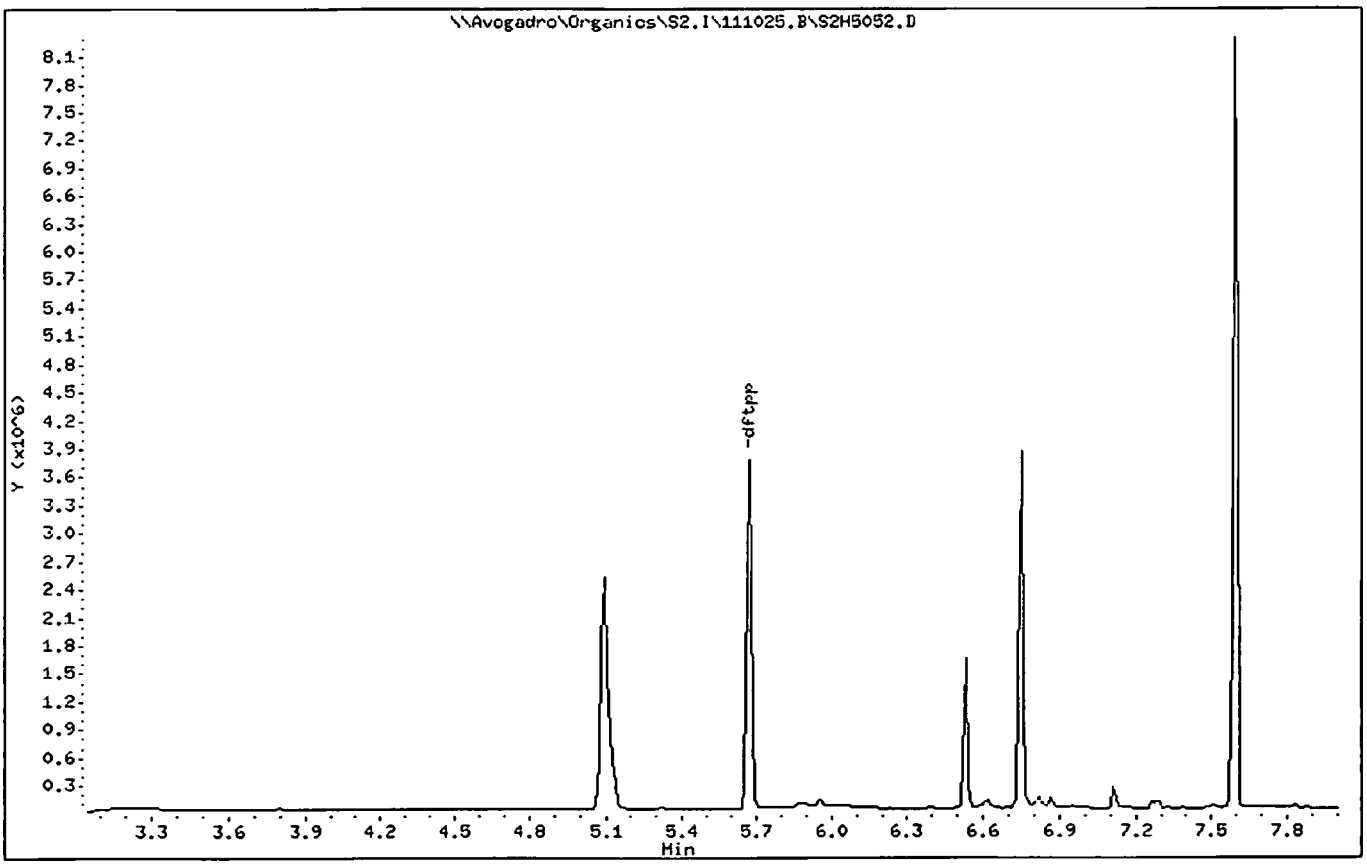
Sample Info: DFTPP2W,DFTPP2W

Volume Injected (uL): 2.0

Operator: SRC:

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5052.D

Date : 25-OCT-2011 09:32

Client ID: DFTPP2W

Instrument: S2.i

Sample Info: DFTPP2W,DFTPP2W

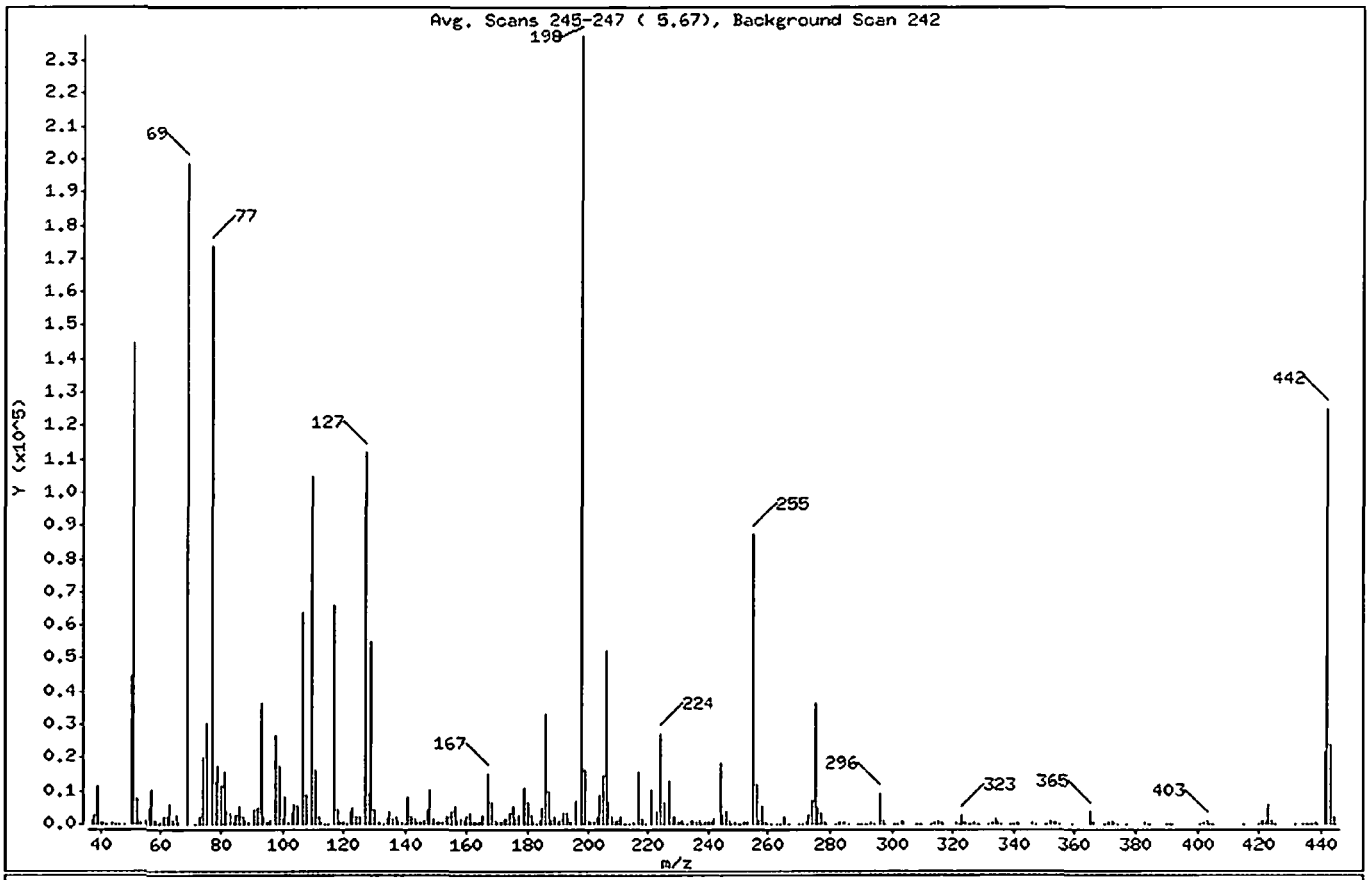
Volume Injected (uL): 2.0

Operator: SRC:

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	61.01
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	83.74
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	47.09
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.78
275	10.00 - 60.00% of mass 198	15.29
365	Greater than 1.00% of mass 198	1.54
441	Present, but less than mass 443	9.21
442	50.00 - 100.00% of mass 198	52.54
443	15.00 - 24.00% of mass 442	10.09 (19.21)

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5052.D

Date : 25-OCT-2011 09:32

Client ID: DFTPP2W | Instrument: S2.i

Sample Info: DFTPP2W,DFTPP2W

Volume Injected (uL): 2.0 | Operator: SRC:

Column phase: RXi-5SILMS | Column diameter: 0.25

Data File: S2H5052.D
Spectrum: Avg. Scans 245-247 (5.67), Background Scan 242
Location of Maximum: 198.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	887	129.00	55200	211.00	2362	304.00	325
38.00	2682	130.00	4483	212.00	249	308.00	115
39.00	11719	131.00	688	213.00	204	309.00	150
40.00	670	132.00	462	214.00	54	310.00	214
41.00	474	133.00	266	215.00	751	313.00	76
42.00	44	134.00	1630	216.00	214	314.00	451
44.00	751	135.00	4058	217.00	15846	315.00	1039
45.00	234	136.00	1797	218.00	1851	316.00	552
46.00	13	137.00	2009	219.00	177	317.00	85
48.00	258	138.00	395	221.00	10424	321.00	313
50.00	44544	139.00	300	223.00	3644	322.00	130
51.00	145024	140.00	182	224.00	27192	323.00	2631
52.00	7590	141.00	7964	225.00	6722	324.00	519
53.00	381	142.00	2409	227.00	13254	325.00	37
55.00	1128	143.00	1757	228.00	2001	326.00	98
56.00	4760	144.00	504	229.00	2299	327.00	634
57.00	10599	145.00	371	230.00	331	328.00	257
58.00	1020	146.00	1300	231.00	1171	329.00	49
59.00	161	147.00	4174	232.00	184	332.00	229
60.00	329	148.00	10447	233.00	240	333.00	319
61.00	1915	149.00	1650	234.00	824	334.00	1692
62.00	2253	150.00	478	235.00	916	335.00	429
63.00	5846	151.00	736	236.00	602	336.00	79
64.00	821	152.00	575	237.00	822	339.00	49
65.00	2558	153.00	2419	238.00	198	340.00	37
66.00	563	154.00	2046	239.00	394	341.00	290
69.00	199040	155.00	4043	240.00	393	342.00	77
71.00	245	156.00	5410	241.00	656	346.00	590
72.00	208	157.00	887	242.00	1412	347.00	111
73.00	2001	158.00	1385	244.00	18744	350.00	110
74.00	20192	159.00	1170	245.00	2688	351.00	46
75.00	30352	160.00	2326	246.00	3874	352.00	849
77.00	174016	161.00	3402	247.00	881	353.00	585
78.00	12544	162.00	728	248.00	240	354.00	692
79.00	17224	163.00	287	249.00	609	355.00	166

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5052.D

Date : 25-OCT-2011 09:32

Client ID: DFTPP2W | Instrument: S2.i

Sample Info: DFTPP2W,DFTPP2W

Volume Injected (uL): 2.0 | Operator: SRC:

Column phase: RXi-5SILMS | Column diameter: 0.25

Data File: S2H5052.D

Spectrum: Avg. Scans 245-247 (5.67), Background Scan 242

Location of Maximum: 198.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	11731	164.00	338	250.00	191	359.00	53
81.00	15941	165.00	2925	251.00	247	365.00	3657
82.00	3577	167.00	15178	252.00	277	366.00	483
83.00	3265	168.00	6390	253.00	665	370.00	76
84.00	392	169.00	1228	255.00	87624	371.00	292
85.00	2597	170.00	748	256.00	12126	372.00	1311
86.00	5634	171.00	687	257.00	1136	373.00	408
87.00	2359	172.00	1391	258.00	5533	374.00	39
88.00	938	173.00	1693	259.00	811	377.00	35
89.00	466	174.00	3059	260.00	115	383.00	340
91.00	4110	175.00	5272	261.00	156	384.00	123
92.00	4915	176.00	1474	263.00	34	385.00	44
93.00	36536	177.00	2827	264.00	20	390.00	160
94.00	2070	179.00	10743	265.00	2216	391.00	95
95.00	414	180.00	6612	266.00	251	392.00	76
96.00	1266	181.00	2975	267.00	33	401.00	76
98.00	26712	182.00	563	270.00	175	402.00	578
99.00	17696	183.00	219	271.00	208	403.00	938
100.00	1505	184.00	1034	272.00	325	404.00	257
101.00	8423	185.00	4935	273.00	2525	405.00	42
102.00	455	186.00	33544	274.00	7031	415.00	38
103.00	3136	187.00	9632	275.00	36352	420.00	35
104.00	5860	188.00	998	276.00	5041	421.00	836
105.00	5248	189.00	2373	277.00	3128	422.00	577
107.00	63784	190.00	553	278.00	567	423.00	6131
108.00	8919	191.00	1015	279.00	59	424.00	1267
110.00	105016	192.00	3252	282.00	36	425.00	58
111.00	16381	193.00	3405	283.00	413	432.00	36
112.00	2021	194.00	680	284.00	279	434.00	107
113.00	640	196.00	7359	285.00	598	435.00	65
114.00	45	198.00	237696	286.00	126	436.00	164
115.00	111	199.00	16123	289.00	175	437.00	252
117.00	66072	200.00	1299	290.00	85	438.00	342
118.00	4481	201.00	293	291.00	34	439.00	241
119.00	473	202.00	776	292.00	139	441.00	21896

Data File: \\Avogadro\Organics\S2.I\111025.B\S2H5052.D

Date : 25-OCT-2011 09:32

Client ID: DFTPP2W | Instrument: S2.i

Sample Info: DFTPP2W,DFTPP2W

Volume Injected (uL): 2.0 | Operator: SRC:

Column phase: RXi-5SILMS | Column diameter: 0.25

Data File: S2H5052.D
Spectrum: Avg. Scans 245-247 (5.67), Background Scan 242
Location of Maximum: 198.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	702	203.00	1974	293.00	630	442.00	124880
121.00	106	204.00	8596	294.00	211	443.00	23992
122.00	3904	205.00	14687	296.00	9424	444.00	2149
123.00	5097	206.00	52392	297.00	1327	445.00	154
124.00	2427	207.00	6769	298.00	51		
125.00	1989	208.00	2114	301.00	80		
127.00	111936	209.00	770	302.00	203		
128.00	9377	210.00	914	303.00	1040		

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5188.D
Lab Smp Id: DFTPP2P Client Smp ID: DFTPP2P
Inj Date : 03-NOV-2011 09:42
Operator : SRC: Inst ID: S2.i
Smp Info : DFTPP2P,DFTPP2P
Misc Info : 3,3
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_dftppSOM.m
Meth Date : 28-Oct-2011 11:08 mscarpaci 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: TARGET104

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

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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.488	5.552	-0.064	198	286976			0.00- 100.00	100.00
5.488	5.552	-0.064	51	149760			10.00- 80.00	52.19
5.488	5.552	-0.064	68	0	0.0	0.0	0.00- 2.00	0.00
5.488	5.552	-0.064	69	203392			0.00- 0.00	70.87
5.488	5.552	-0.064	70	0	0.0	0.0	0.00- 2.00	0.00
5.488	5.552	-0.064	127	127448			10.00- 80.00	44.41
5.488	5.552	-0.064	197	0	0.0	0.0	0.00- 2.00	0.00
5.488	5.552	-0.064	199	19992			5.00- 9.00	6.97
5.488	5.552	-0.064	275	45496			10.00- 60.00	15.85
5.488	5.552	-0.064	365	4828			1.00- 0.00	1.68
5.488	5.552	-0.064	441	31256			0.01- 99.99	90.31
5.488	5.552	-0.064	442	177280			50.00- 100.00	61.78
5.488	5.552	-0.064	443	34608			15.00- 24.00	19.52

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5188.D

Date : 03-NOV-2011 09:42

Client ID: DFTPP2P

Instrument: S2.i

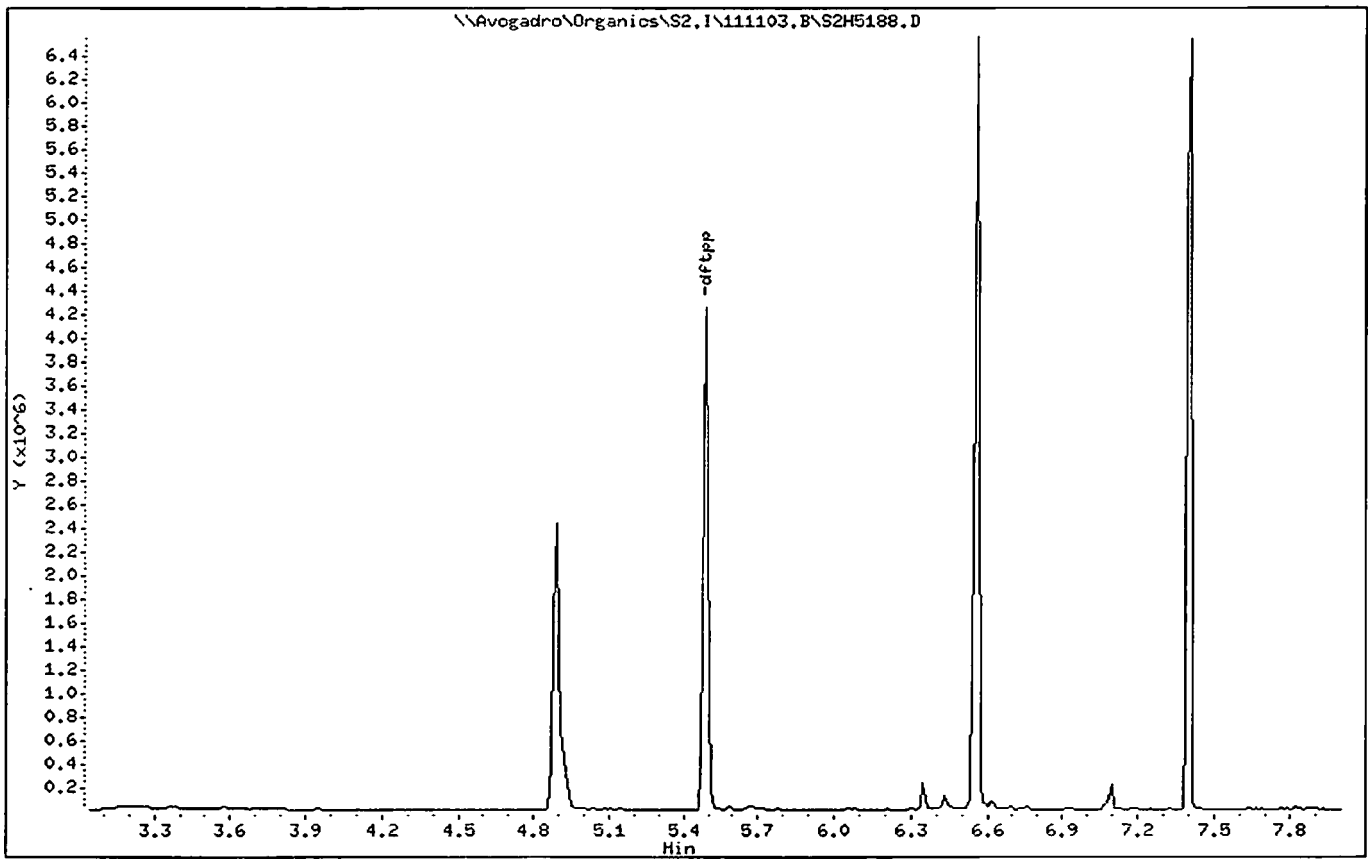
Sample Info: DFTPP2P,DFTPP2P

Volume Injected (uL): 2.0

Operator: SRC:

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5188.D

Date : 03-NOV-2011 09:42

Client ID: DFTPP2P

Instrument: S2.i

Sample Info: DFTPP2P,DFTPP2P

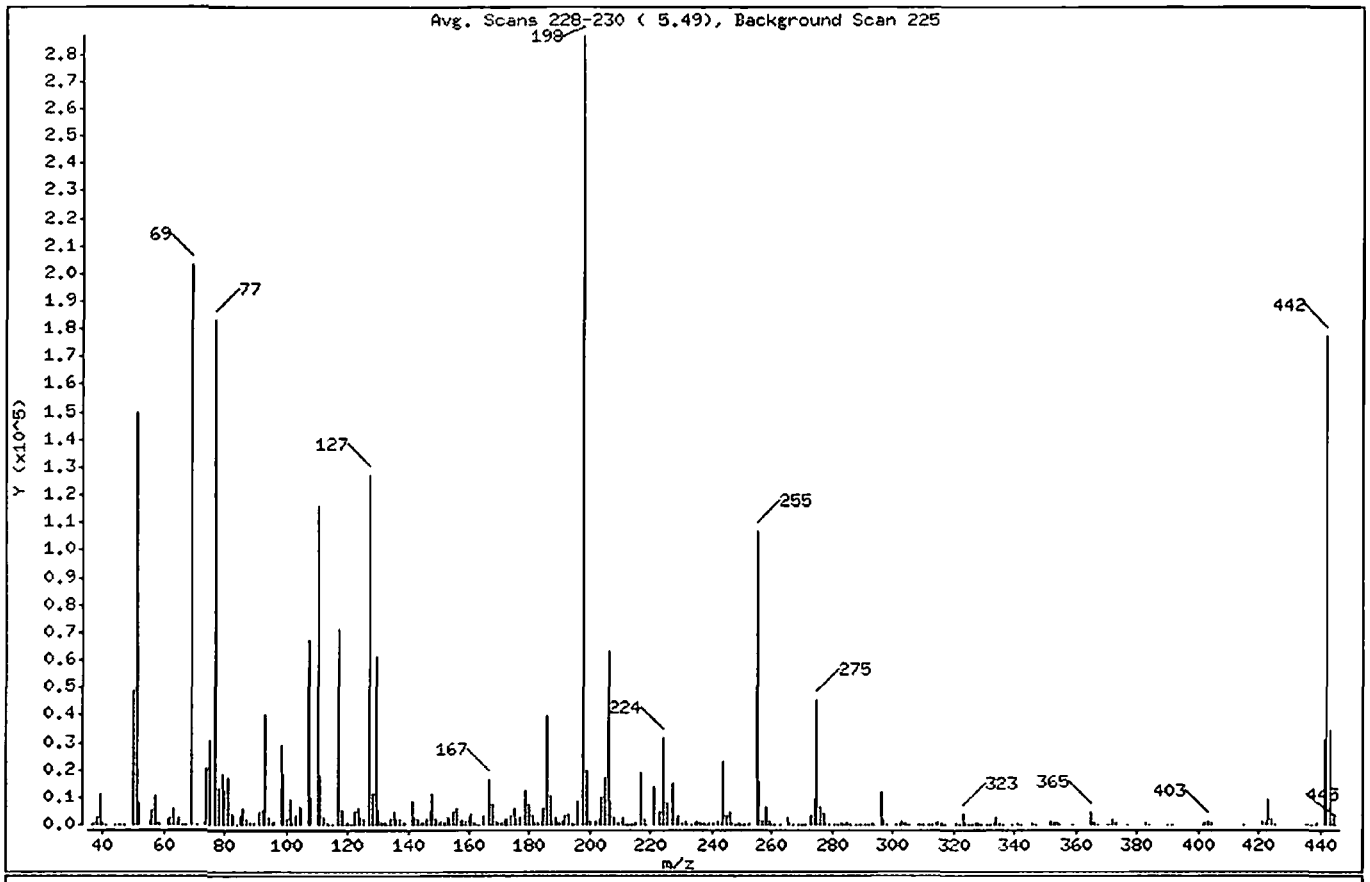
Volume Injected (uL): 2.0

Operator: SRC:

Column phase: RXi-5SILMS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	52.19
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	70.87
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	44.41
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.97
275	10.00 - 60.00% of mass 198	15.85
365	Greater than 1.00% of mass 198	1.68
441	Present, but less than mass 443	10.89
442	50.00 - 100.00% of mass 198	61.78
443	15.00 - 24.00% of mass 442	12.06 (19.52)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5188.D

Date : 03-NOV-2011 09:42

Client ID: DFTPP2P | Instrument: S2.i

Sample Info: DFTPP2P,DFTPP2P

Volume Injected (uL): 2.0 | Operator: SRC:

Column phase: RXi-5SILMS | Column diameter: 0.25

Data File: S2H5188.D

Spectrum: Avg. Scans 228-230 (5.49), Background Scan 225

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	61	129.00	61680	210.00	954	298.00	109
37.00	954	130.00	5251	211.00	2690	301.00	130
38.00	2670	131.00	785	212.00	68	302.00	260
39.00	11029	132.00	514	213.00	219	303.00	1355
40.00	351	133.00	267	214.00	119	304.00	399
41.00	278	134.00	2007	215.00	858	305.00	40
44.00	175	135.00	4451	217.00	18832	308.00	155
45.00	303	136.00	1823	218.00	2142	309.00	96
46.00	41	137.00	2249	219.00	209	310.00	118
47.00	219	138.00	510	221.00	13786	312.00	40
50.00	48688	139.00	404	223.00	4376	313.00	120
51.00	149760	141.00	8474	224.00	31640	314.00	608
52.00	8081	142.00	2634	225.00	8098	315.00	1184
55.00	1042	143.00	1749	227.00	14993	316.00	681
56.00	5029	144.00	422	228.00	2028	317.00	137
57.00	10451	145.00	362	229.00	3021	321.00	388
58.00	584	146.00	1837	230.00	468	322.00	144
59.00	225	147.00	4377	231.00	1209	323.00	3654
61.00	2077	148.00	11477	232.00	239	324.00	739
62.00	2611	149.00	2014	233.00	273	325.00	50
63.00	6221	150.00	524	234.00	874	326.00	65
64.00	891	151.00	1102	235.00	1083	327.00	684
65.00	2566	152.00	658	236.00	694	328.00	365
66.00	236	153.00	2796	237.00	939	329.00	44
67.00	74	154.00	1976	238.00	74	331.00	38
69.00	203392	155.00	4384	239.00	533	332.00	280
71.00	157	156.00	6137	240.00	499	333.00	408
73.00	891	157.00	1139	241.00	852	334.00	2316
74.00	20656	158.00	1661	242.00	1588	335.00	477
75.00	31192	159.00	1099	243.00	375	336.00	49
77.00	183424	160.00	2602	244.00	23040	339.00	40
78.00	13282	161.00	3761	245.00	3045	341.00	518
79.00	18520	162.00	949	246.00	4798	342.00	87
80.00	12648	163.00	313	247.00	987	346.00	825
81.00	17072	164.00	98	248.00	203	347.00	194

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5188.D

Date : 03-NOV-2011 09:42

Client ID: DFTPP2P | Instrument: S2.i

Sample Info: DFTPP2P,DFTPP2P

Volume Injected (uL): 2.0 | Operator: SRC:

Column phase: RXi-5SILMS | Column diameter: 0.25

Data File: S2H5188.D
Spectrum: Avg. Scans 228-230 (5.49), Background Scan 225
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	3956	165.00	3330	249.00	822	352.00	1003
83.00	3146	167.00	16776	250.00	182	353.00	742
84.00	306	168.00	7310	251.00	157	354.00	910
85.00	3297	169.00	1228	252.00	312	355.00	216
86.00	5941	170.00	635	253.00	879	359.00	72
87.00	2225	171.00	737	255.00	106624	365.00	4828
88.00	880	172.00	1788	256.00	15631	366.00	772
89.00	484	173.00	2090	257.00	1315	367.00	52
91.00	4524	174.00	3332	258.00	6558	370.00	107
92.00	5329	175.00	5767	259.00	1050	371.00	279
93.00	40096	176.00	1696	260.00	241	372.00	1882
94.00	2432	177.00	2894	261.00	220	373.00	410
95.00	402	179.00	12640	263.00	88	377.00	39
96.00	1092	180.00	7464	265.00	2610	383.00	484
98.00	29280	181.00	3626	266.00	516	384.00	100
99.00	18584	182.00	697	267.00	81	390.00	257
100.00	1713	183.00	379	269.00	35	391.00	203
101.00	9326	184.00	1041	270.00	152	392.00	156
102.00	505	185.00	5825	271.00	321	401.00	108
103.00	3287	186.00	39848	273.00	3592	402.00	809
104.00	6753	187.00	10868	274.00	9093	403.00	1118
105.00	5989	188.00	1271	275.00	45496	404.00	470
107.00	67312	189.00	2610	276.00	6286	415.00	42
108.00	9657	190.00	534	277.00	3780	421.00	1180
110.00	116400	191.00	1387	278.00	659	422.00	866
111.00	17960	192.00	3580	279.00	68	423.00	8958
112.00	2341	193.00	3692	281.00	79	424.00	1708
113.00	634	194.00	852	282.00	89	425.00	166
114.00	203	195.00	64	283.00	450	435.00	46
115.00	51	196.00	8820	284.00	302	436.00	123
117.00	71080	198.00	286976	285.00	610	437.00	322
118.00	4987	199.00	19992	286.00	138	438.00	305
119.00	326	200.00	1514	288.00	69	439.00	354
120.00	818	202.00	1346	289.00	170	441.00	31256
121.00	215	203.00	2246	290.00	94	442.00	177280

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5188.D

Date : 03-NOV-2011 09:42

Client ID: DFTPP2P

Instrument: S2.i

Sample Info: DFTPP2P,DFTPP2P

Volume Injected (uL): 2.0

Operator: SRC:

Column phase: RXi-5SILMS

Column diameter: 0.25

Data File: S2H5188.D
Spectrum: Avg. Scans 228-230 (5.49), Background Scan 225
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	4386	204.00	10207	291.00	193	443.00	34608
123.00	5901	205.00	17416	292.00	160	444.00	3058
124.00	2582	206.00	63424	293.00	723	445.00	227
125.00	2051	207.00	8274	294.00	235		
127.00	127448	208.00	2483	296.00	11887		
128.00	11072	209.00	868	297.00	1880		

Spectrum Analytical, Inc. RI Division

Data file : \\Avogadro\Organics\S2.I\111104.B\S2H5224.D
Lab Smp Id: DFTPP2S Client Smp ID: DFTPP2S
Inj Date : 04-NOV-2011 12:41
Operator : SRC: Inst ID: S2.i
Smp Info : DFTPP2S,DFTPP2S
Misc Info : 3,3
Comment :
Method : \\Avogadro\Organics\S2.I\111104.B\S2_dftppSOM.m
Meth Date : 28-Oct-2011 11:08 mscarpaci 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: TARGET104

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

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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.402	5.552	-0.150	198	421696			0.00- 100.00	100.00
5.402	5.552	-0.150	51	182208			10.00- 80.00	43.21
5.402	5.552	-0.150	68	0	0.0	0.0	0.00- 2.00	0.00
5.402	5.552	-0.150	69	255488			0.00- 0.00	60.59
5.402	5.552	-0.150	70	0	0.0	0.0	0.00- 2.00	0.00
5.402	5.552	-0.150	127	174528			10.00- 80.00	41.39
5.402	5.552	-0.150	197	0	0.0	0.0	0.00- 2.00	0.00
5.402	5.552	-0.150	199	29520			5.00- 9.00	7.00
5.402	5.552	-0.150	275	67320			10.00- 60.00	15.96
5.402	5.552	-0.150	365	7527			1.00- 0.00	1.78
5.402	5.552	-0.150	441	36784			0.01- 99.99	70.35
5.402	5.552	-0.150	442	268800			50.00- 100.00	63.74
5.402	5.552	-0.150	443	52288			15.00- 24.00	19.45

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5224.D

Date : 04-NOV-2011 12:41

Client ID: DFTPP2S

Instrument: S2.i

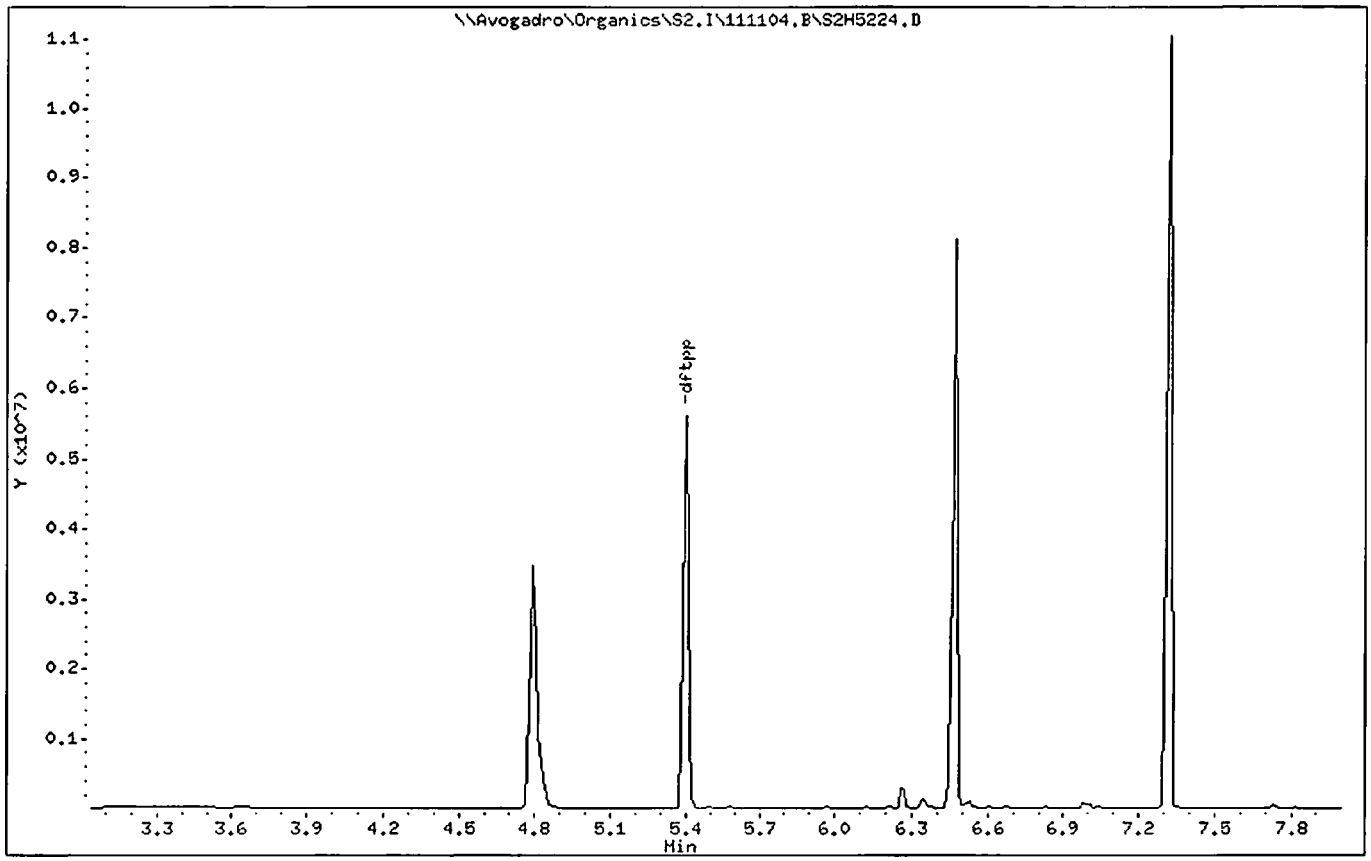
Sample Info: DFTPP2S,DFTPP2S

Volume Injected (uL): 2.0

Operator: SRC:

Column phase: RXi-5SILMS

Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5224.D

Date : 04-NOV-2011 12:41

Client ID: DFTPP2S

Instrument: S2.i

Sample Info: DFTPP2S,DFTPP2S

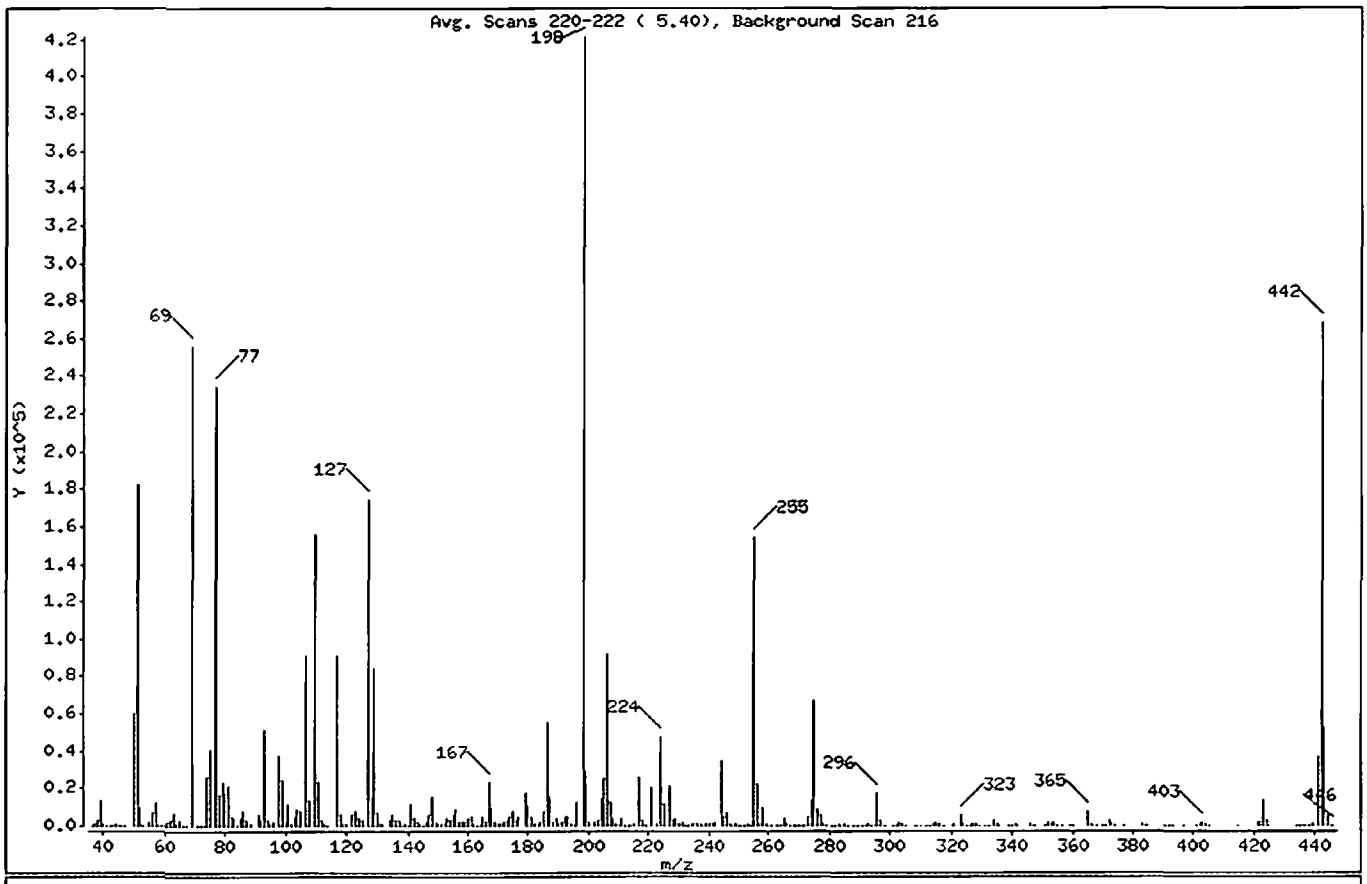
Volume Injected (uL): 2.0

Operator: SRC:

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	43.21
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.59
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	41.39
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	15.96
365	Greater than 1.00% of mass 198	1.78
441	Present, but less than mass 443	8.72
442	50.00 - 100.00% of mass 198	63.74
443	15.00 - 24.00% of mass 442	12.40 (19.45)

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5224.D

Date : 04-NOV-2011 12:41

Client ID: DFTPP2S | Instrument: S2.i

Sample Info: DFTPP2S,DFTPP2S

Volume Injected (uL): 2.0 | Operator: SRC:

Column phase: RXi-5SILMS | Column diameter: 0.25

Data File: S2H5224.D
Spectrum: Avg. Scans 220-222 (5.40), Background Scan 216
Location of Maximum: 198.00
Number of points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	225	132.00	603	219.00	451	312.00	37
37.00	1125	134.00	2577	221.00	20720	313.00	201
38.00	3307	135.00	5510	223.00	630	314.00	951
39.00	13746	136.00	2525	224.00	47552	315.00	1861
40.00	749	137.00	3004	225.00	11991	316.00	1086
41.00	316	138.00	425	227.00	21328	317.00	169
42.00	8	139.00	538	228.00	3042	318.00	52
43.00	104	140.00	79	229.00	4252	320.00	71
44.00	822	141.00	11727	230.00	670	321.00	574
45.00	351	142.00	3427	231.00	1725	323.00	5691
46.00	136	143.00	2398	232.00	300	324.00	1097
47.00	236	144.00	581	233.00	284	325.00	79
50.00	59648	145.00	482	234.00	1313	326.00	109
51.00	182208	146.00	2248	235.00	1219	327.00	988
52.00	9835	147.00	5614	236.00	958	328.00	572
53.00	346	148.00	15034	237.00	1227	329.00	100
55.00	1608	149.00	2402	238.00	189	331.00	46
56.00	6684	150.00	717	239.00	779	332.00	447
57.00	12415	151.00	1365	240.00	631	333.00	416
58.00	152	152.00	911	241.00	1093	334.00	3357
59.00	306	153.00	3598	242.00	2371	335.00	938
60.00	333	154.00	2454	244.00	34600	336.00	86
61.00	2350	155.00	6212	245.00	4433	339.00	103
62.00	3145	156.00	8323	246.00	6725	340.00	45
63.00	7268	157.00	1708	247.00	1434	341.00	614
64.00	1122	158.00	2136	248.00	349	342.00	188
65.00	3051	159.00	1635	249.00	1077	346.00	1120
66.00	397	160.00	3780	250.00	347	347.00	171
67.00	121	161.00	5126	251.00	319	348.00	40
69.00	255488	162.00	1370	252.00	365	351.00	127
71.00	218	163.00	431	253.00	1003	352.00	1539
72.00	43	164.00	306	254.00	156	353.00	1268
73.00	152	165.00	4403	255.00	153728	354.00	1680
74.00	26016	166.00	1722	256.00	22408	355.00	302
75.00	40872	167.00	22840	257.00	851	357.00	48

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5224.D

Date : 04-NOV-2011 12:41

Client ID: DFTPP2S | Instrument: S2.i

Sample Info: DFTPP2S,DFTPP2S

Volume Injected (uL): 2.0 | Operator: SRC:

Column phase: RXi-5SILMS | Column diameter: 0.25

Data File: S2H5224.D
Spectrum: Avg. Scans 220-222 (5.40), Background Scan 216
Location of Maximum: 198.00
Number of points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	234176	168.00	10078	258.00	9296	359.00	125
78.00	16776	169.00	1859	259.00	1421	360.00	43
79.00	23688	170.00	773	260.00	264	365.00	7527
80.00	17168	171.00	905	261.00	271	366.00	1054
81.00	21088	172.00	2154	263.00	140	367.00	79
82.00	5184	173.00	2465	264.00	262	368.00	40
83.00	4222	174.00	4554	265.00	3773	370.00	160
84.00	200	175.00	8195	266.00	591	371.00	470
85.00	3745	176.00	2434	267.00	115	372.00	2868
86.00	7730	177.00	4486	268.00	128	373.00	715
87.00	2943	179.00	17408	269.00	67	374.00	69
88.00	1219	180.00	10237	270.00	202	377.00	76
89.00	592	181.00	5044	271.00	440	383.00	799
91.00	5757	182.00	864	272.00	89	384.00	195
92.00	3083	183.00	579	273.00	4812	385.00	52
93.00	51424	184.00	1545	274.00	13509	390.00	439
94.00	2947	185.00	8065	275.00	67320	391.00	365
95.00	572	186.00	55456	276.00	9020	392.00	282
96.00	1715	187.00	15855	277.00	5433	393.00	38
98.00	37768	188.00	1846	278.00	981	397.00	41
99.00	24576	189.00	4062	279.00	172	401.00	203
100.00	2001	190.00	699	281.00	40	402.00	1242
101.00	12014	191.00	1824	282.00	178	403.00	1791
102.00	656	192.00	5075	283.00	687	404.00	651
103.00	4592	193.00	5033	284.00	401	405.00	60
104.00	8666	194.00	982	285.00	988	415.00	58
105.00	8185	195.00	85	286.00	160	421.00	1688
107.00	90888	196.00	12728	288.00	51	422.00	1993
108.00	13363	198.00	421696	289.00	222	423.00	13286
110.00	156480	199.00	29520	290.00	262	424.00	2541
111.00	23112	200.00	2331	291.00	159	425.00	255
112.00	3032	202.00	2189	292.00	228	434.00	68
113.00	1016	203.00	3217	293.00	1045	435.00	179
114.00	33	204.00	14591	294.00	340	436.00	183
117.00	90976	205.00	24952	295.00	41	437.00	237

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5224.D

Date : 04-NOV-2011 12:41

Client ID: DFTPP2S | Instrument: S2.i

Sample Info: DFTPP2S,DFTPP2S

Volume Injected (uL): 2.0 | Operator: SRC:

Column phase: RXi-5SILMS | Column diameter: 0.25

Data File: S2H5224.D
Spectrum: Avg. Scans 220-222 (5.40), Background Scan 216
Location of Maximum: 198.00
Number of points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	6163	206.00	91816	296.00	17496	438.00	242
119.00	564	207.00	12313	297.00	2527	439.00	549
120.00	986	208.00	3461	298.00	248	441.00	36784
122.00	5586	209.00	1089	299.00	88	442.00	268800
123.00	7867	210.00	172	301.00	255	443.00	52288
124.00	3803	211.00	4197	302.00	387	444.00	4793
125.00	2952	212.00	51	303.00	1959	445.00	379
127.00	174528	213.00	249	304.00	521	446.00	44
128.00	14268	214.00	126	305.00	36		
129.00	84352	215.00	1071	308.00	251		
130.00	6724	217.00	25952	309.00	169		
131.00	1314	218.00	3211	310.00	209		

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK2Q

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-62636

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5203.D

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/02/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/03/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

SOM01.2 (6/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK2Q

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-62636

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5203.D

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/02/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/03/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

(1) Cannot be separated from Diphenylamine

SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SBLK2Q

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-62636

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5203.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/02/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/03/2011

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

CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5469-16-9	2(3H)-Furanone, dihydro-4-hy	4.664	7.2	NJ
02		Unknown-01	4.878	5.1	J
03		Unknown-02	5.189	2.3	J
04		Unknown-03	5.393	7.1	J
05		Unknown-04	5.521	3.7	J
06		Unknown-05	6.347	3.5	J
07		Unknown-06	8.095	5.1	J
08	301-02-0	9-Octadecenamide, (Z)-	10.604	8.1	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D
Report Date: 07-Nov-2011 14:01

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5203.D
Lab Smp Id: MB-62636 Client Smp ID: SBLK2Q
Inj Date : 03-NOV-2011 16:05
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : MB-62636,SBLK2Q,62636
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_SOM.m
Meth Date : 07-Nov-2011 14:01 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 2 Phenol-d5	71	3.569	3.565	(0.920)	193288	52.7047	26
$ 4 bis(2-Chloroethyl)ether-d8	67	3.612	3.619	(0.931)	261590	51.7635	26
$ 6 2-Chlorophenol-d4	132	3.698	3.694	(0.953)	176738	55.7093	28
* 8 1,4-Dichlorobenzene-d4	152	3.880	3.887	(1.000)	116462	40.0000	(Q)
$ 11 4-Methylphenol-d8	113	4.191	4.198	(1.080)	249489	50.1792	25
$ 16 Nitrobenzene-d5	128	4.341	4.348	(0.877)	89501	56.7344	28
$ 19 2-Nitrophenol-d4	143	4.620	4.616	(0.933)	105971	60.8502	30
$ 23 2,4-Dichlorophenol-d3	165	4.824	4.820	(0.974)	190863	60.0361	30
* 25 Naphthalene-d8	136	4.953	4.948	(1.000)	302920	40.0000	
$ 27 4-Chloroaniline-d4	131	5.006	5.002	(1.011)	133544	47.3091	24(Q)
$ 40 Dimethylphthalate-d6	166	6.164	6.171	(0.962)	437478	56.9054	28
$ 43 Acenaphthylene-d8	160	6.282	6.289	(0.980)	575042	57.5208	29
* 46 Acenaphthene-d10	164	6.411	6.418	(1.000)	209089	40.0000	
$ 49 4-Nitrophenol-d4	143	6.507	6.503	(1.015)	68415	61.7512	31
$ 54 Fluorene-d10	176	6.840	6.847	(1.067)	367702	52.0691	26
$ 58 4,6-Dinitro-2-methylphenol-d2	200	6.904	6.900	(0.903)	72387	49.5535	25
* 65 Phenanthrene-d10	188	7.644	7.640	(1.000)	374347	40.0000	
$ 67 Anthracene-d10	188	7.687	7.694	(1.006)	594607	55.6054	28
$ 72 Pyrene-d10	212	8.824	8.820	(0.894)	517993	74.9980	37
* 77 Chrysene-d12	240	9.875	9.871	(1.000)	219246	40.0000	(Q)
$ 83 Benzo(a)pyrene-d12	264	11.151	11.147	(0.991)	162216	56.7986	28(H)

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D
Report Date: 07-Nov-2011 14:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
* 85 Perylene-d12	264	11.247	11.233	(1.000)	116388	40.0000		(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D
Report Date: 07-Nov-2011 14:01

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111103.B\S2H5203.D
Lab Smp Id: MB-62636 Client Smp ID: SBLK2Q
Inj Date : 03-NOV-2011 16:05
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : MB-62636,SBLK2Q,62636
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111103.B\S2_SOM.m
Meth Date : 07-Nov-2011 14:01 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 25 Naphthalene-d8	4.953	1053691	40.000
* 46 Acenaphthene-d10	6.411	1123756	40.000
* 65 Phenanthrene-d10	7.645	1062912	40.000
* 85 Perylene-d12	11.248	289808	40.000

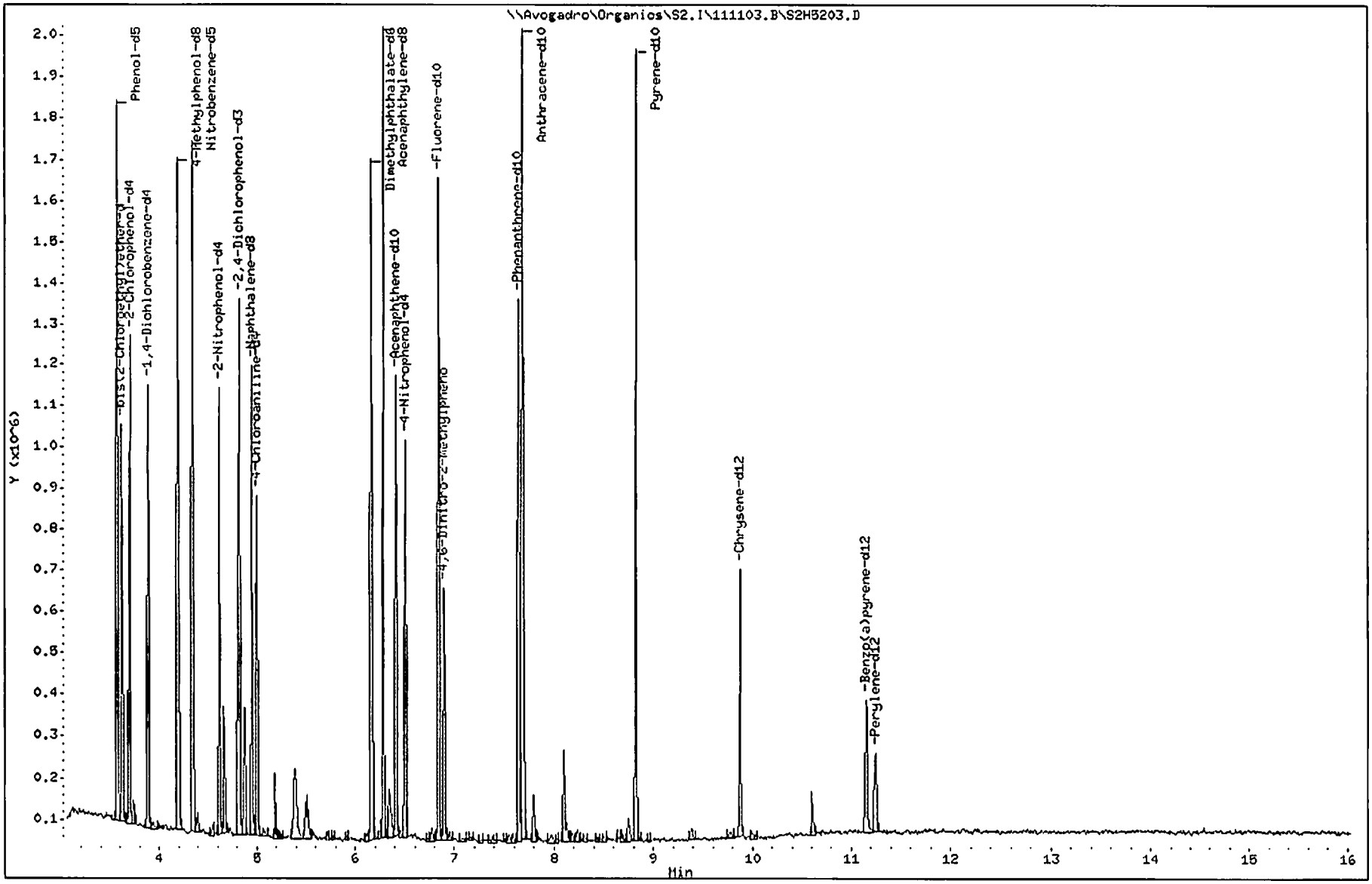
		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
2(3H)-Furanone, dihydro-4-hydroxy-				CAS #: 5469-16-9			
4.664	377956	14.3478653	7.2	90	NIST2002.L	4145	25
Unknown				CAS #:			
4.878	271083	10.2907925	5.1	0		0	25
Unknown				CAS #:			
5.189	123212	4.67734383	2.3	0		0	25

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D
Report Date: 07-Nov-2011 14:01

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.393	374322	14.2099413	7.1	0		0	25
Unknown				CAS #:			
5.521	197152	7.48422536	3.7	0		0	25
Unknown				CAS #:			
6.347	193861	6.90044503	3.5	0		0	46
Unknown				CAS #:			
8.095	272556	10.2569346	5.1	0		0	65
9-Octadecenamide, (Z)-				CAS #: 301-02-0			
10.604	116921	16.1376426	8.1	90	NIST2002.L	106877	85

Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D
Date : 03-NOV-2011 16:05
Client ID: SBLK2Q
Sample Info: MB-62636,SBLK2Q,62636
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC: LIMS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D

Date : 03-NOV-2011 16:05

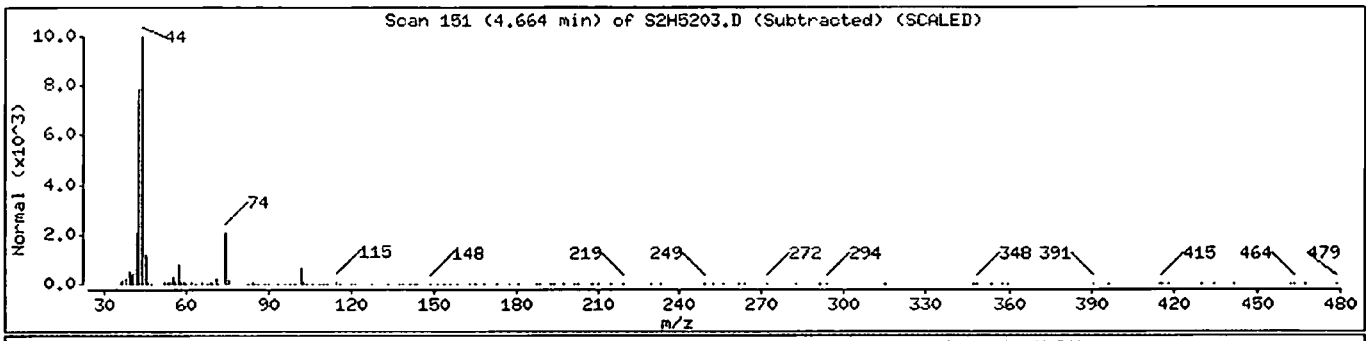
Client ID: SBLK2Q | Instrument: S2.i

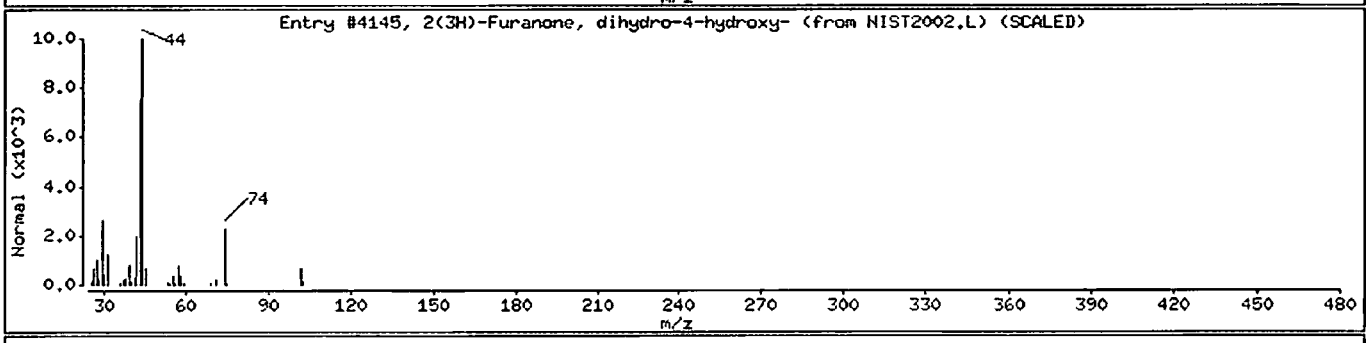
Sample Info: HB-62636,SBLK2Q,62636

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2(3H)-Furanone, dihydro-4-hydroxy-	5469-16-9	NIST2002.L	4145	90	C4H6O3	102





Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D

Date : 03-NOV-2011 16:05

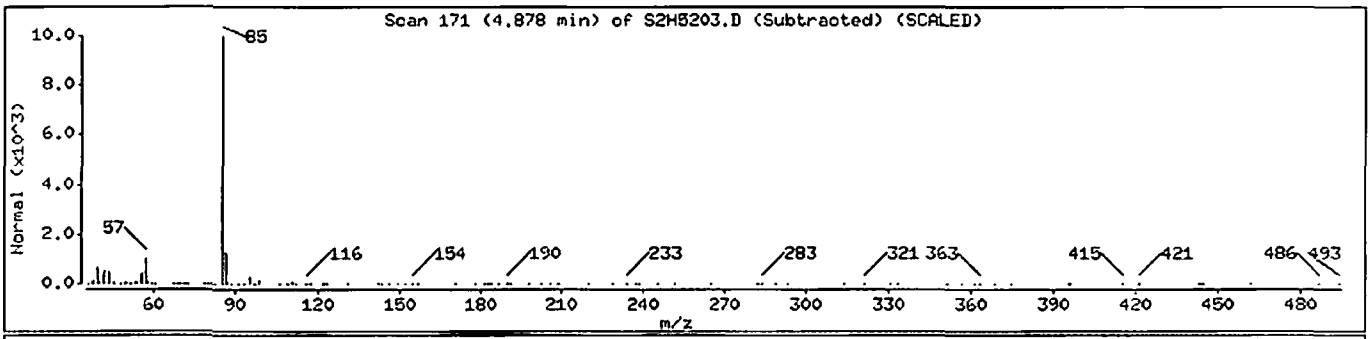
Client ID: SBLK2Q | Instrument: S2.i

Sample Info: MB-62636,SBLK20,62636

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D

Date : 03-NOV-2011 16:05

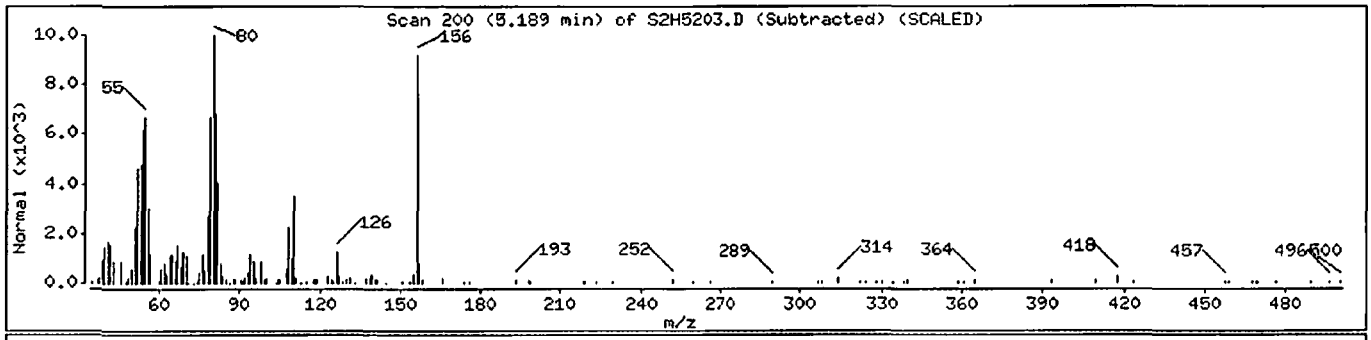
Client ID: SBLK2Q | Instrument: S2.i

Sample Info: MB-62636,SBLK2Q,62636

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D

Date : 03-NOV-2011 16:05

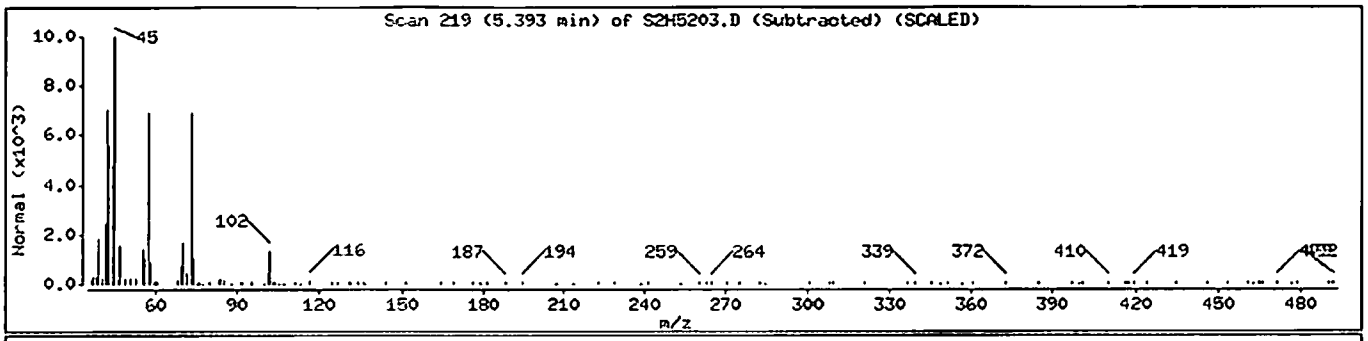
Client ID: SBLK2Q | Instrument: S2.i

Sample Info: MB-62636,SBLK2Q,62636

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D

Date : 03-NOV-2011 16:05

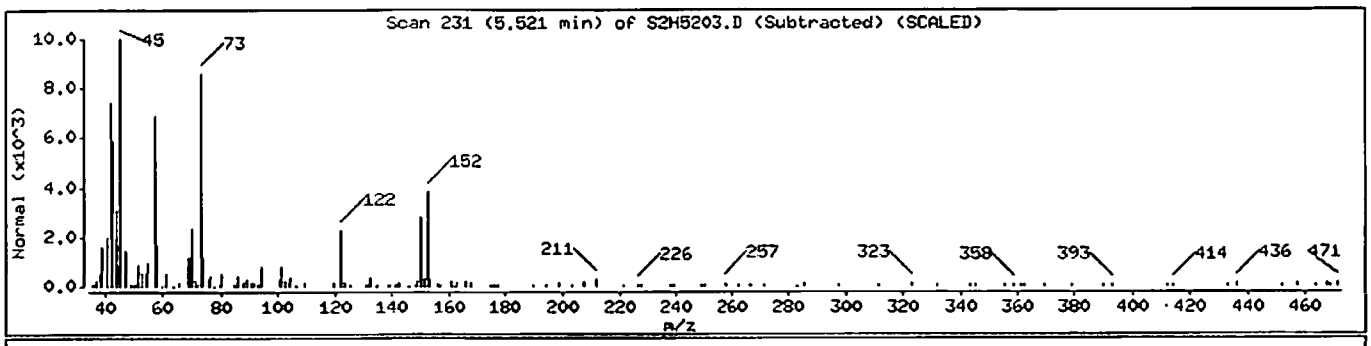
Client ID: SBLK2Q | Instrument: S2.i

Sample Info: HB-62636,SBLK2Q,62636

Volume Injected (uL): 2.0 | Operator: SRC: LIHS

Column phase: RXI-5SILHS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D

Date : 03-NOV-2011 16:05

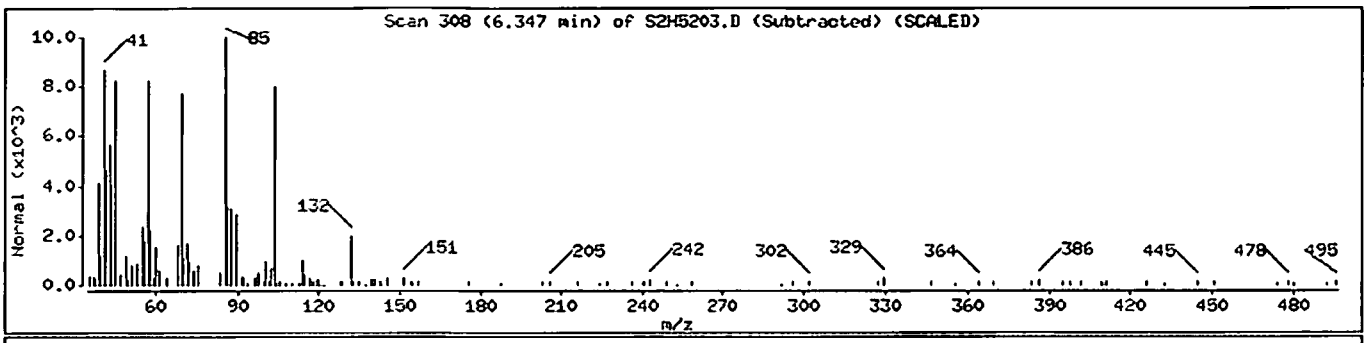
Client ID: SBLK2Q | Instrument: S2.i

Sample Info: MB-62636,SBLK2Q,62636

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D

Date : 03-NOV-2011 16:05

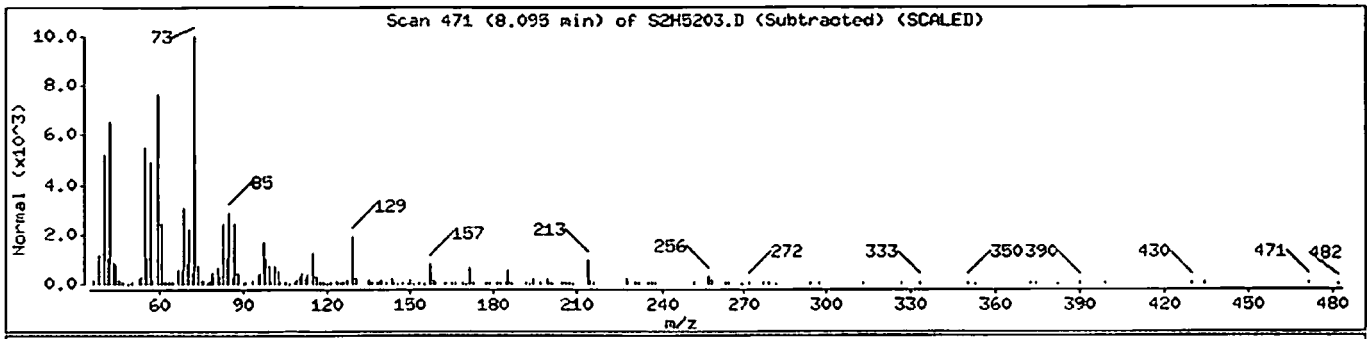
Client ID: SBLK2Q | Instrument: S2.i

Sample Info: MB-62636,SBLK2Q,62636

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111103.B\S2H5203.D

Date : 03-NOV-2011 16:05

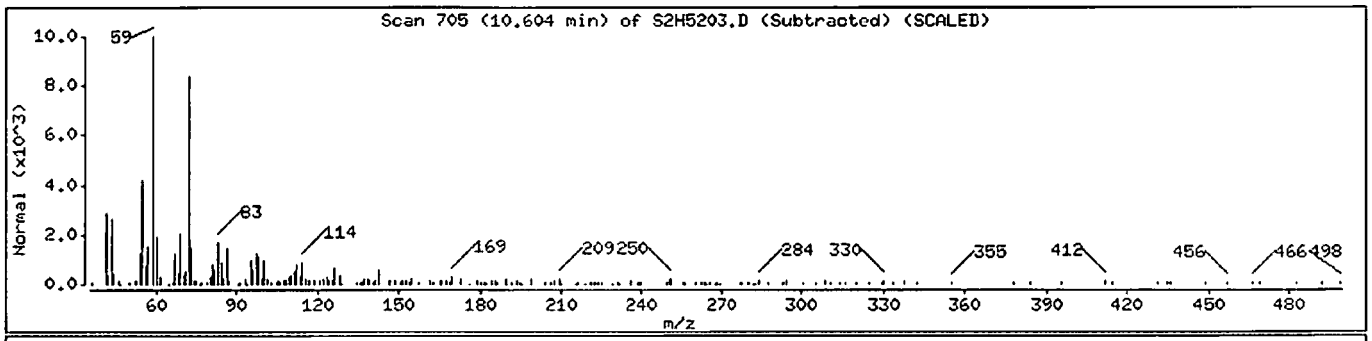
Client ID: SBLK2Q | Instrument: S2.i

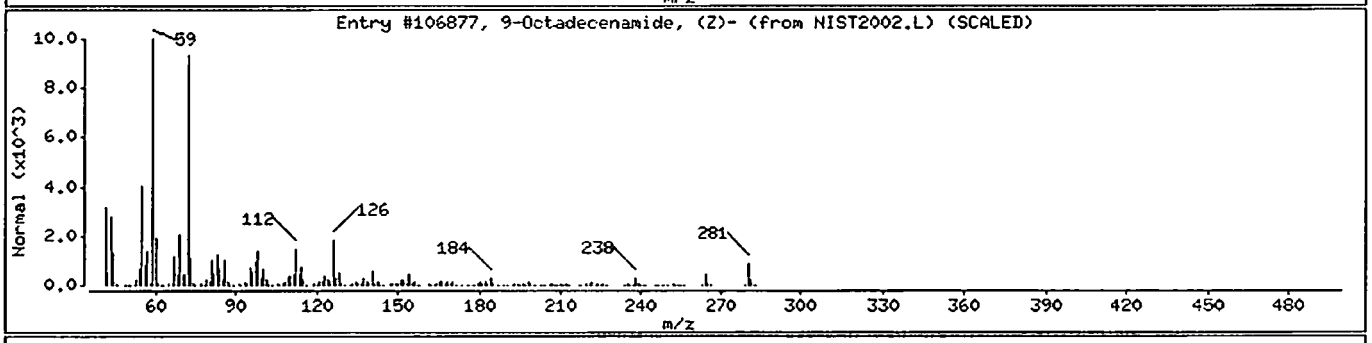
Sample Info: MB-62636,SBLK2Q,62636

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST2002.L	106877	90	C18H35NO	281





1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK2S

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-62685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5227.D

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/03/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/04/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2´-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1´-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

SOM01.2 (6/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK2S

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-62685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5227.D

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/03/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/04/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine 1	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

(1) Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK2S

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-62685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2H5227.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 11/03/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/04/2011

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

CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.669	3.7	J
02		Unknown-02	4.602	4.0	J
03		Unknown-03	4.817	2.6	J
04		Unknown-04	5.128	2.6	J
05		Unknown-05	5.310	3.7	J
06		Unknown-06	10.586	4.1	J
	E96679C[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

SOM01.2 (6/2007)

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D
Report Date: 07-Nov-2011 13:26

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111104.B\S2H5227.D
Lab Smp Id: MB-62685 Client Smp ID: SBLK2S
Inj Date : 04-NOV-2011 15:14
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : MB-62685,SBLK2S,62685
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111104.B\S2_SOM.m
Meth Date : 07-Nov-2011 13:26 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	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	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 2 Phenol-d5	71	3.508	3.500	(0.919)	176175	60.3197	30
$ 4 bis(2-Chloroethyl)ether-d8	67	3.551	3.554	(0.930)	263631	65.5043	33
$ 6 2-Chlorophenol-d4	132	3.626	3.629	(0.949)	165978	65.6929	33
* 8 1,4-Dichlorobenzene-d4	152	3.819	3.822	(1.000)	92750	40.0000	(Q)
$ 11 4-Methylphenol-d8	113	4.130	4.133	(1.081)	255622	64.5566	32
$ 16 Nitrobenzene-d5	128	4.280	4.283	(0.877)	85024	69.8088	35(Q)
$ 19 2-Nitrophenol-d4	143	4.548	4.551	(0.932)	97778	72.7220	36
$ 23 2,4-Dichlorophenol-d3	165	4.762	4.755	(0.976)	169637	69.1132	35
* 25 Naphthalene-d8	136	4.880	4.884	(1.000)	233872	40.0000	
$ 27 4-Chloroaniline-d4	131	4.934	4.937	(1.011)	137448	63.0679	32(Q)
$ 40 Dimethylphthalate-d6	166	6.103	6.106	(0.961)	435223	63.6450	32
$ 43 Acenaphthylene-d8	160	6.221	6.224	(0.980)	603537	67.8711	34
* 46 Acenaphthene-d10	164	6.350	6.353	(1.000)	185984	40.0000	
$ 49 4-Nitrophenol-d4	143	6.446	6.449	(1.015)	64467	65.4165	33
$ 54 Fluorene-d10	176	6.779	6.782	(1.068)	389031	61.9332	31
$ 58 4,6-Dinitro-2-methylphenol-d2	200	6.832	6.835	(0.901)	73399	67.3882	34(Q)
* 65 Phenanthrene-d10	188	7.583	7.575	(1.000)	279122	40.0000	
$ 67 Anthracene-d10	188	7.626	7.629	(1.006)	545890	68.4656	34
$ 72 Pyrene-d10	212	8.762	8.776	(0.891)	455574	79.6032	40
* 77 Chrysene-d12	240	9.835	9.881	(1.000)	181671	40.0000	(Q)
$ 83 Benzo(a)pyrene-d12	264	11.111	11.189	(0.983)	175651	64.8939	32(H)

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D
Report Date: 07-Nov-2011 13:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
* 85 Perylene-d12	264	11.197	11.275	(1.000)	110306	40.0000		(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D
Report Date: 07-Nov-2011 13:26

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111104.B\S2H5227.D
Lab Smp Id: MB-62685 Client Smp ID: SBLK2S
Inj Date : 04-NOV-2011 15:14
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : MB-62685,SBLK2S,62685
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111104.B\S2_SOM.m
Meth Date : 07-Nov-2011 13:26 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 8 1,4-Dichlorobenzene-d4	3.819	850993	40.000
* 25 Naphthalene-d8	4.881	840065	40.000
* 85 Perylene-d12	11.197	290846	40.000

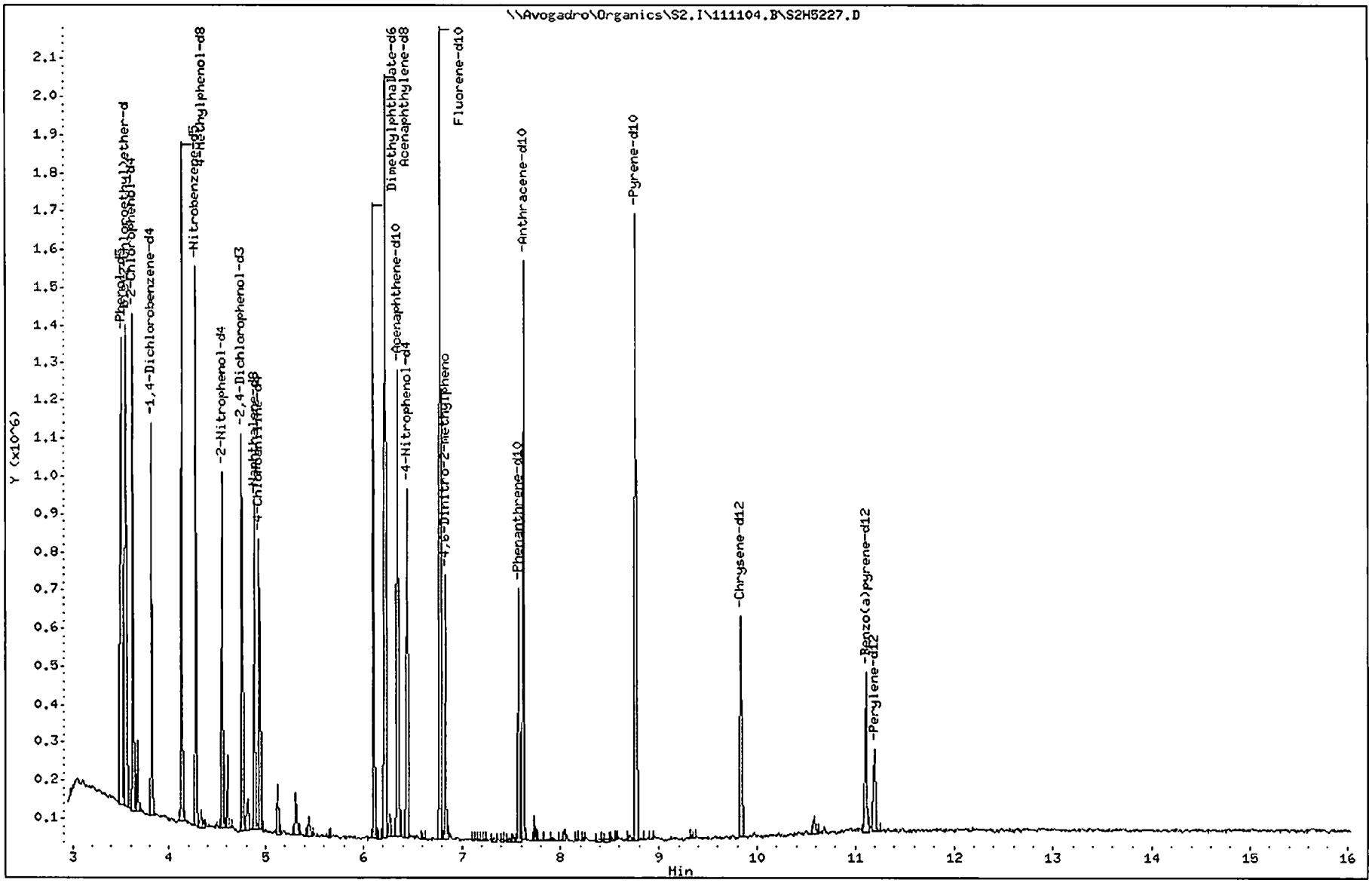
RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.669	159398	7.49233427	3.7	0		0	8
Unknown				CAS #:			
4.602	166438	7.92500529	4.0	0		0	25
Unknown				CAS #:			
4.817	109434	5.21073258	2.6	0		0	25
Unknown				CAS #:			
5.128	110100	5.24242803	2.6	0		0	25

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D
Report Date: 07-Nov-2011 13:26

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.310	156158	7.43549175	3.7	0		0	25
Unknown				CAS #:			
10.586	59628	8.20061286	4.1	0		0	85

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D
Date : 04-NOV-2011 15:14
Client ID: SBLK2S
Sample Info: MB-62685,SBLK2S,62685
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC: LIMS
Column diameter: 0.25



Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D

Date : 04-NOV-2011 15:14

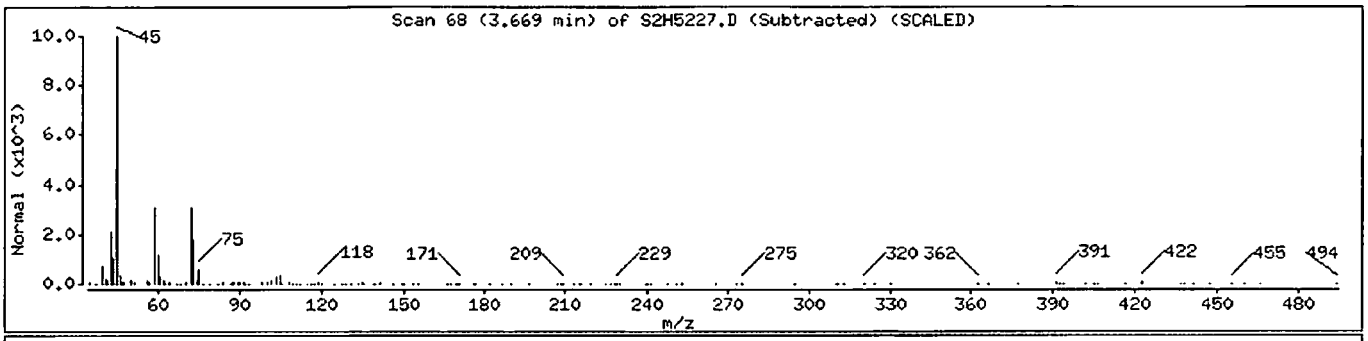
Client ID: SBLK2S | Instrument: S2.i

Sample Info: MB-62685,SBLK2S,62685

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D

Date : 04-NOV-2011 15:14

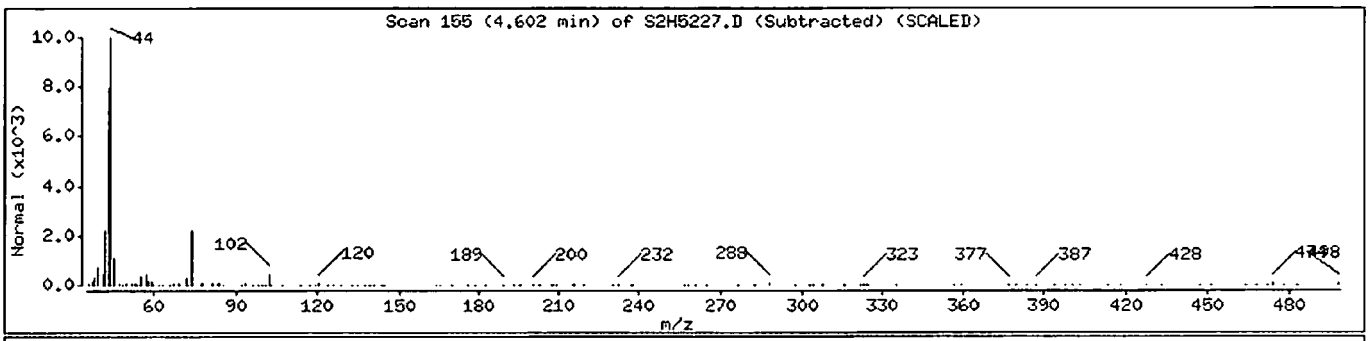
Client ID: SBLK2S | Instrument: S2.i

Sample Info: MB-62685,SBLK2S,62685

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D

Date : 04-NOV-2011 15:14

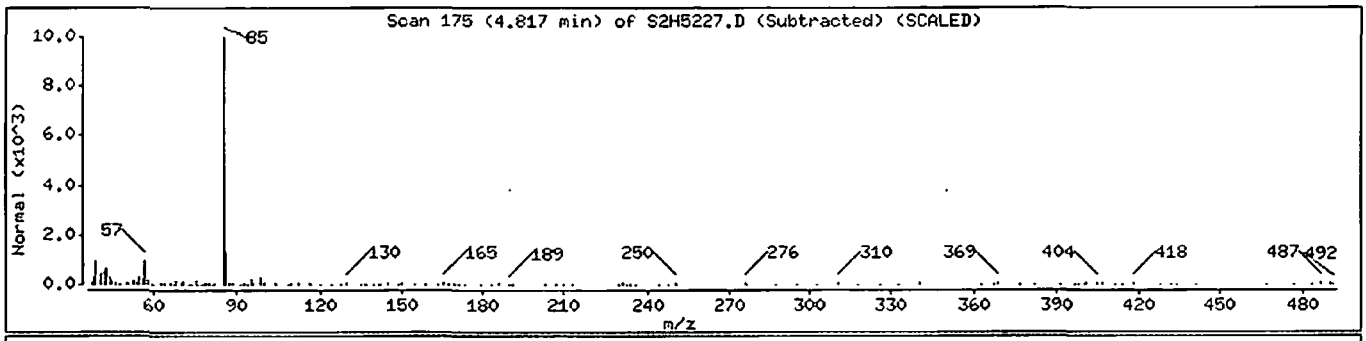
Client ID: SBLK2S | Instrument: S2.i

Sample Info: MB-62685,SBLK2S,62685

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D

Date : 04-NOV-2011 15:14

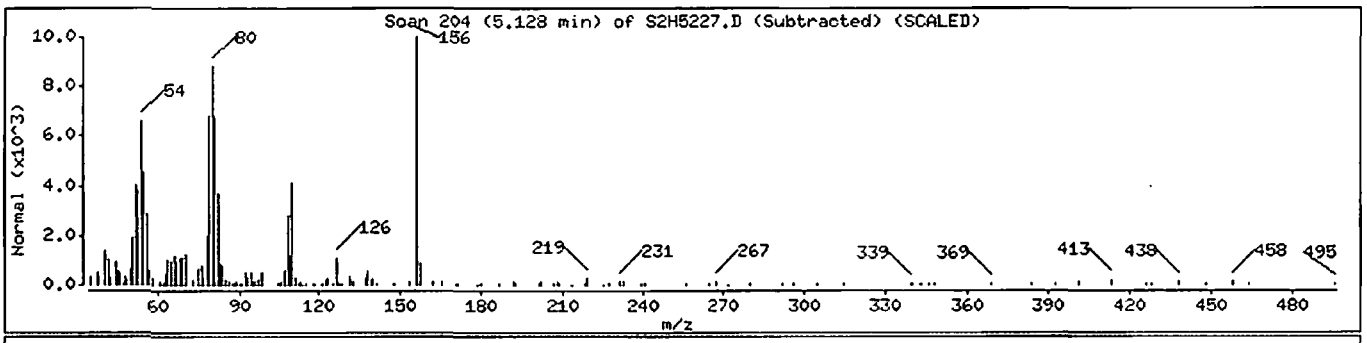
Client ID: SBLK2S | Instrument: S2.i

Sample Info: MB-62685,SBLK2S,62685

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D

Date : 04-NOV-2011 15:14

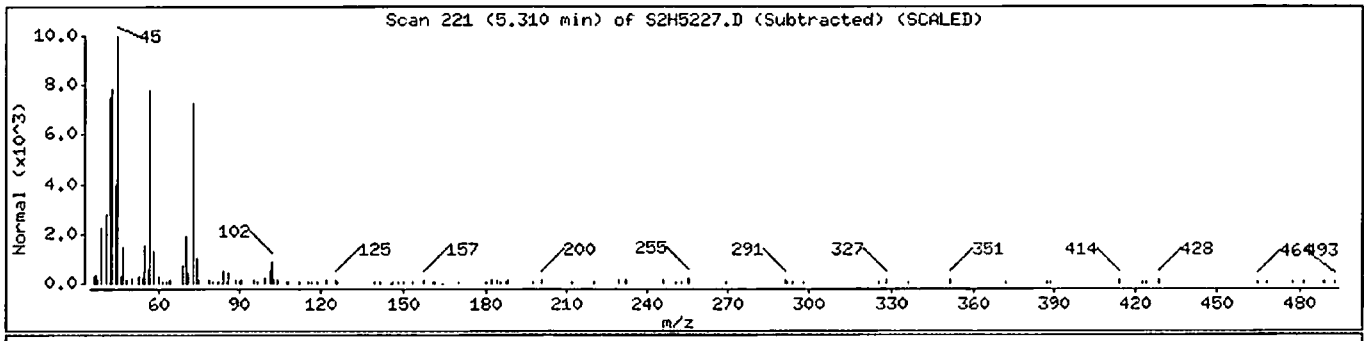
Client ID: SBLK2S | Instrument: S2.i

Sample Info: MB-62685,SBLK2S,62685

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5227.D

Date : 04-NOV-2011 15:14

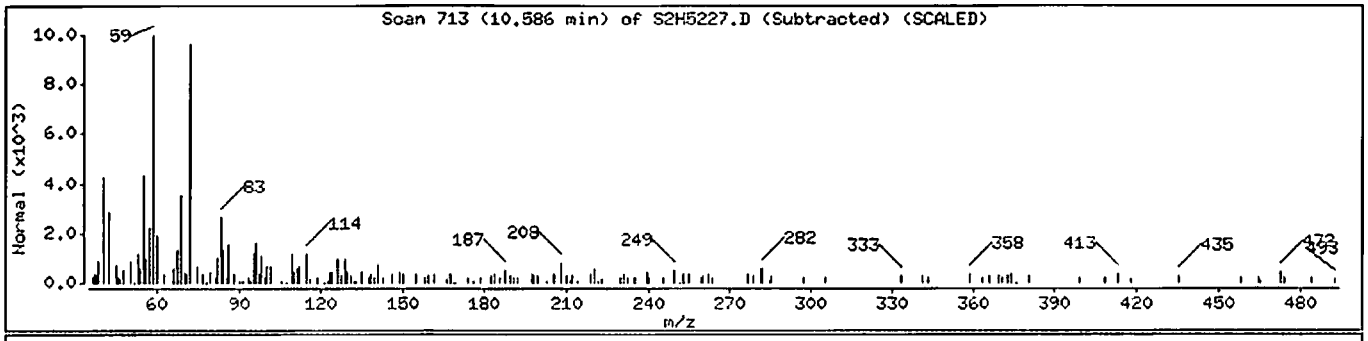
Client ID: SBLK2S | Instrument: S2.i

Sample Info: MB-62685,SBLK2S,62685

Volume Injected (uL): 2.0 | Operator: SRC: LIMS

Column phase: RXI-5SILMS | Column diameter: 0.25

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



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

H30X3MS

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-20AMS

Sample wt/vol: 500 (g/mL) ML Lab File ID: S2H5229.D

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

% Moisture: Decanted: (Y/N) Date Received: 10/29/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 11/03/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/04/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	36	
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	35	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	26	
621-64-7	N-Nitroso-di-n-propylamine	35	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	33	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	28	

SOM01.2 (6/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

H30X3MS

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-20AMS

Sample wt/vol: 500 (g/mL) ML Lab File ID: S2H5229.D

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

% Moisture: Decanted: (Y/N) Date Received: 10/29/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 11/03/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/04/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	40	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	29	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	1.5	J
86-30-6	N-Nitrosodiphenylamine 1	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	51	
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	21	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

(1) Cannot be separated from Diphenylamine

SOM01.2 (6/2007)

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5229.D
Report Date: 07-Nov-2011 13:26

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111104.B\S2H5229.D
Lab Smp Id: K2200-20AMS Client Smp ID: H30X3MS
Inj Date : 04-NOV-2011 15:57
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : K2200-20AMS,,62685,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111104.B\S2_SOM.m
Meth Date : 07-Nov-2011 13:26 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 5 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 2 Phenol-d5	71	3.551	3.500	(0.927)	271841	67.2586	34(Q)
3 Phenol	94	3.562	3.511	(0.930)	793671	71.5992	36
$ 4 bis(2-Chloroethyl)ether-d8	67	3.573	3.554	(0.933)	348004	62.4850	31(Q)
$ 6 2-Chlorophenol-d4	132	3.648	3.629	(0.952)	227296	65.0096	33(Q)
7 2-Chlorophenol	128	3.669	3.640	(0.958)	251979	70.0681	35
* 8 1,4-Dichlorobenzene-d4	152	3.830	3.822	(1.000)	128350	40.0000	(Q)
$ 11 4-Methylphenol-d8	113	4.173	4.133	(1.090)	357123	65.1746	33(Q)
14 N-Nitroso-di-n-propylamine	70	4.173	4.154	(1.090)	351408	69.3258	35(QH)
12 4-Methylphenol	108	4.184	4.154	(1.092)	326966	52.4574	26
$ 16 Nitrobenzene-d5	128	4.291	4.283	(0.877)	112414	56.2934	28
$ 19 2-Nitrophenol-d4	143	4.559	4.551	(0.932)	130722	59.2983	30(Q)
$ 23 2,4-Dichlorophenol-d3	165	4.774	4.755	(0.976)	235505	58.5206	29(Q)
* 25 Naphthalene-d8	136	4.892	4.884	(1.000)	383451	40.0000	
$ 27 4-Chloroaniline-d4	131	4.956	4.937	(1.013)	19096	5.34418	2.7(aQ)
31 4-Chloro-3-methylphenol	107	5.364	5.356	(1.096)	398651	66.4991	33
$ 40 Dimethylphthalate-d6	166	6.103	6.106	(0.961)	520212	56.0130	28
$ 43 Acenaphthylene-d8	160	6.221	6.224	(0.980)	707333	58.5681	29
* 46 Acenaphthene-d10	164	6.350	6.353	(1.000)	252592	40.0000	
47 Acenaphthene	153	6.372	6.374	(1.003)	392269	55.0890	28
$ 49 4-Nitrophenol-d4	143	6.457	6.449	(1.017)	75015	56.0472	28(Q)
50 4-Nitrophenol	109	6.457	6.449	(1.017)	209447	80.9251	40(QR)

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5229.D
Report Date: 07-Nov-2011 13:26

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	51 2,4-Dinitrotoluene	165	6.511	6.503	(1.025)	157156	57.8571	29(Q)
S	54 Fluorene-d10	176	6.779	6.782	(1.068)	497615	58.3296	29
S	58 4,6-Dinitro-2-methylphenol-d2	200	6.833	6.835	(0.902)	119528	79.0210	40
	59 4,6-Dinitro-2-methylphenol	198	6.833	6.846	(0.902)	4429	2.99821	1.5(aQ)
	64 Pentachlorophenol	266	7.422	7.425	(0.980)	112241	102.873	51(R)
*	65 Phenanthrene-d10	188	7.573	7.575	(1.000)	387628	40.0000	
S	67 Anthracene-d10	188	7.626	7.629	(1.007)	647000	58.4319	29
S	72 Pyrene-d10	212	8.763	8.776	(0.884)	429626	55.1722	28
	73 Pyrene	202	8.774	8.798	(0.885)	407985	41.1473	21(H)
*	77 Chrysene-d12	240	9.814	9.881	(1.000)	247188	40.0000	(QH)
S	83 Benzo(a)pyrene-d12	264	11.079	11.189	(0.984)	114848	26.8163	13(H)
*	85 Perylene-d12	264	11.165	11.275	(1.000)	174533	40.0000	(H)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5229.D
Report Date: 07-Nov-2011 13:26

Spectrum Analytical, Inc. RI Division

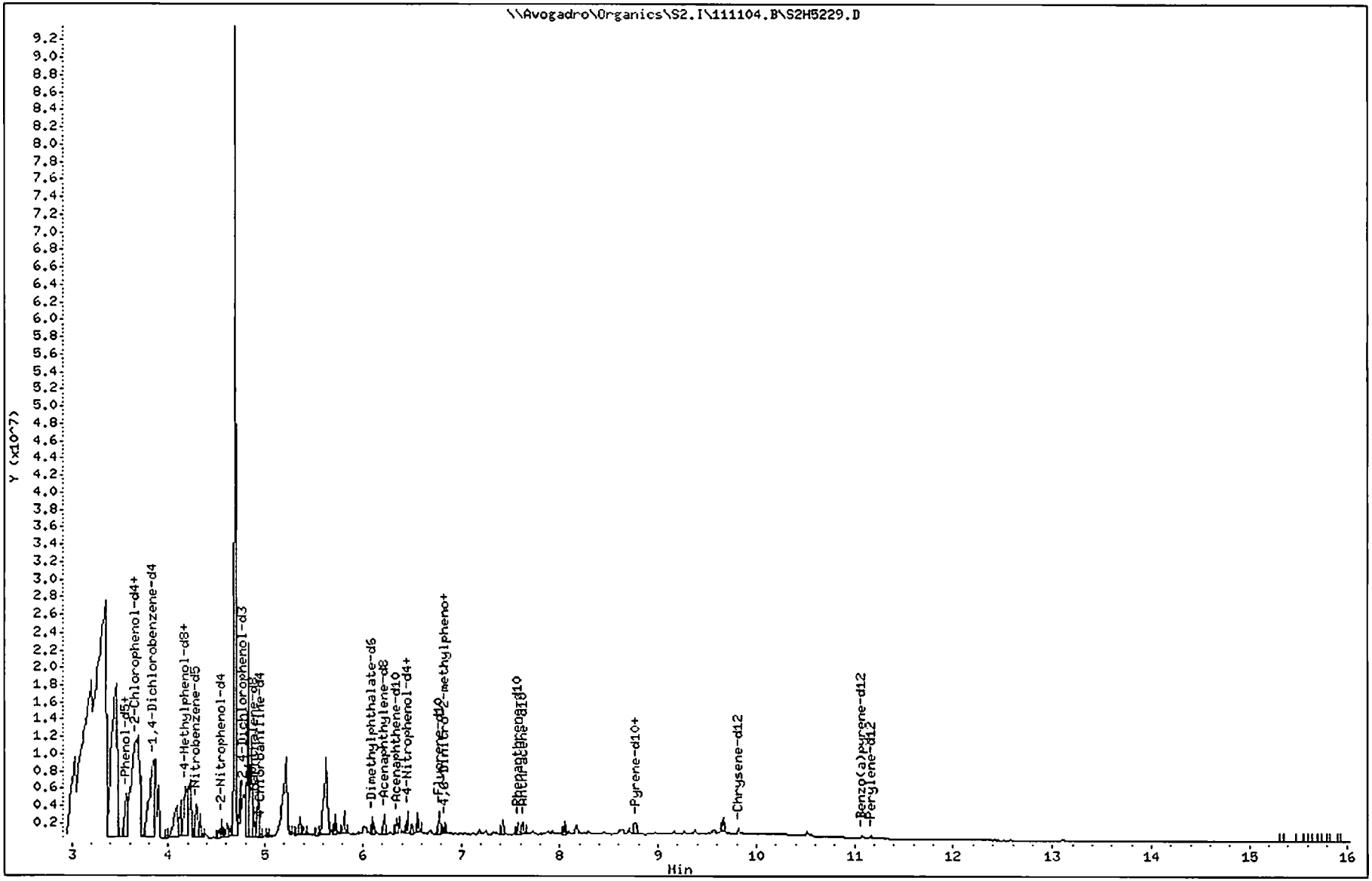
CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111104.B\S2H5229.D
Lab Smp Id: K2200-20AMS Client Smp ID: H30X3MS
Inj Date : 04-NOV-2011 15:57
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : K2200-20AMS,,62685,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111104.B\S2_SOM.m
Meth Date : 07-Nov-2011 13:26 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 5 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5229.D
Date : 04-NOV-2011 15:57
Client ID: H30X3MS
Sample Info: K2200-20AHS,,62685,,
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC: LIMS
Column diameter: 0.25



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

H30X3MSD

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-20AMSD

Sample wt/vol: 500 (g/mL) ML Lab File ID: S2H5230.D

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

% Moisture: Decanted: (Y/N) Date Received: 10/29/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 11/03/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/04/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	39	
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	36	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	31	
621-64-7	N-Nitroso-di-n-propylamine	45	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	37	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	27	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

H30X3MSD

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-20AMSD

Sample wt/vol: 500 (g/mL) ML Lab File ID: S2H5230.D

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

% Moisture: Decanted: (Y/N) Date Received: 10/29/2011

Concentrated Extract Volume: 500 (uL) Date Extracted: 11/03/2011

Injection Volume: 2.0 (uL) GPC Factor: 1.00 Date Analyzed: 11/04/2011

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	44	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	31	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine [1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	48	
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	11	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

(1) Cannot be separated from Diphenylamine

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5230.D
Report Date: 07-Nov-2011 13:26

Spectrum Analytical, Inc. RI Division

CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111104.B\S2H5230.D
Lab Smp Id: K2200-20AMSD Client Smp ID: H30X3MSD
Inj Date : 04-NOV-2011 16:18
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : K2200-20AMSD,,62685,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111104.B\S2_SOM.m
Meth Date : 07-Nov-2011 13:26 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 6 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 2 Phenol-d5	71	3.550	3.500	(0.927)	315120	80.9380	40(QH)
3 Phenol	94	3.561	3.511	(0.930)	835892	78.2820	39
$ 4 bis(2-Chloroethyl)ether-d8	67	3.572	3.554	(0.933)	367443	68.4897	34(Q)
$ 6 2-Chlorophenol-d4	132	3.647	3.629	(0.952)	234199	69.5368	35
7 2-Chlorophenol	128	3.668	3.640	(0.958)	249541	72.0347	36
* 8 1,4-Dichlorobenzene-d4	152	3.829	3.822	(1.000)	123638	40.0000	(Q)
$ 11 4-Methylphenol-d8	113	4.172	4.133	(1.090)	369925	70.0839	35(QH)
14 N-Nitroso-di-n-propylamine	70	4.172	4.154	(1.090)	437989	89.6996	45(QH)
12 4-Methylphenol	108	4.194	4.154	(1.095)	370122	61.6443	31
$ 16 Nitrobenzene-d5	128	4.290	4.283	(0.877)	110015	57.4696	29
$ 19 2-Nitrophenol-d4	143	4.558	4.551	(0.932)	126901	60.0493	30(Q)
$ 23 2,4-Dichlorophenol-d3	165	4.773	4.755	(0.976)	233641	60.5630	30(Q)
* 25 Naphthalene-d8	136	4.891	4.884	(1.000)	367587	40.0000	
$ 27 4-Chloroaniline-d4	131	4.955	4.937	(1.013)	21520	6.28247	3.1(aQ)
31 4-Chloro-3-methylphenol	107	5.363	5.356	(1.096)	424914	73.9391	37
$ 40 Dimethylphthalate-d6	166	6.113	6.106	(0.963)	513422	57.8248	29
$ 43 Acenaphthylene-d8	160	6.221	6.224	(0.980)	661680	57.3081	29
* 46 Acenaphthene-d10	164	6.349	6.353	(1.000)	241484	40.0000	
47 Acenaphthene	153	6.371	6.374	(1.003)	373344	54.8430	27
$ 49 4-Nitrophenol-d4	143	6.457	6.449	(1.017)	73276	57.2663	29(Q)
50 4-Nitrophenol	109	6.467	6.449	(1.019)	217582	87.9353	44(QR)

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5230.D
Report Date: 07-Nov-2011 13:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	51 2,4-Dinitrotoluene	165	6.510	6.503	(1.025)	162062	62.4076	31(Q)
S	54 Fluorene-d10	176	6.778	6.782	(1.068)	449025	55.0551	28
S	58 4,6-Dinitro-2-methylphenol-d2	200	6.832	6.835	(0.902)	115831	82.8546	41
	64 Pentachlorophenol	266	7.422	7.425	(0.980)	97809	96.9946	48(R)
*	65 Phenanthrene-d10	188	7.572	7.575	(1.000)	358258	40.0000	
S	67 Anthracene-d10	188	7.625	7.629	(1.007)	474867	46.4021	23
S	72 Pyrene-d10	212	8.762	8.776	(0.882)	287111	33.8835	17(R)
	73 Pyrene	202	8.773	8.798	(0.883)	237252	21.9895	11(H)
*	77 Chrysene-d12	240	9.824	9.881	(1.000)	268979	40.0000	(QH)
S	83 Benzo(a)pyrene-d12	264	11.089	11.189	(0.975)	93953	20.7839	10(RH)
*	85 Perylene-d12	264	11.175	11.275	(1.000)	184220	40.0000	(H)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5230.D
Report Date: 07-Nov-2011 13:26

Spectrum Analytical, Inc. RI Division

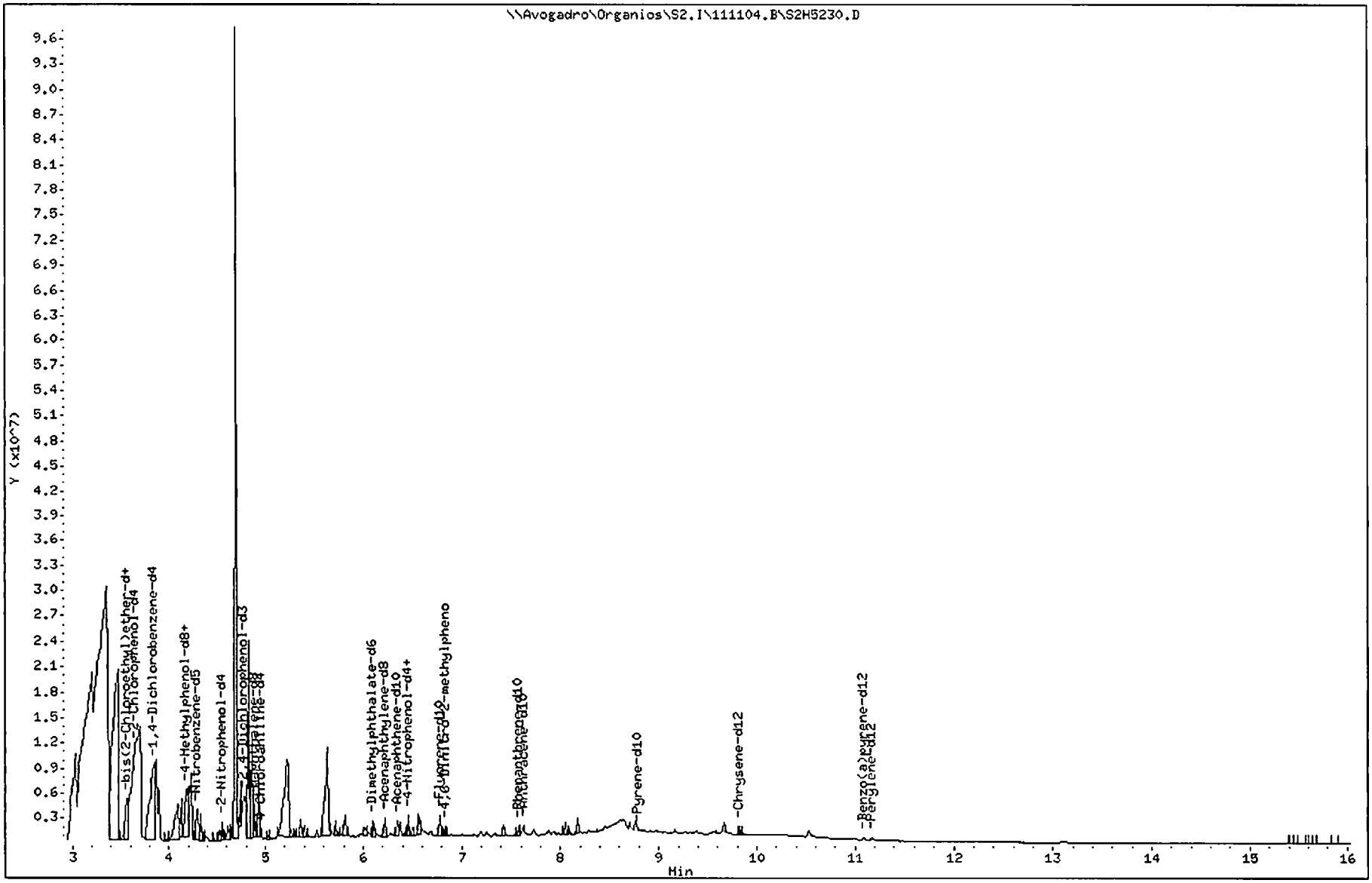
CLP SOM QUANTITATION REPORT

Data file : \\Avogadro\Organics\S2.I\111104.B\S2H5230.D
Lab Smp Id: K2200-20AMSD Client Smp ID: H30X3MSD
Inj Date : 04-NOV-2011 16:18
Operator : SRC: LIMS Inst ID: S2.i
Smp Info : K2200-20AMSD,,62685,,
Misc Info :
Comment :
Method : \\Avogadro\Organics\S2.I\111104.B\S2_SOM.m
Meth Date : 07-Nov-2011 13:26 S2.i Quant Type: ISTD
Cal Date : 25-OCT-2011 13:07 Cal File: S2H5057.D
Als bottle: 6 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SOM.sub
Target Version: 4.14
Processing Host: TARGET104

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Avogadro\Organics\S2.I\111104.B\S2H5230.D
Date : 04-NOV-2011 16:18
Client ID: H30X3MSD
Sample Info: K2200-20AMSD,,62685,,
Volume Injected (uL): 2.0
Column phase: RXI-5SILMS

Instrument: S2.i
Operator: SRC: LIMS
Column diameter: 0.25



2Q - FORM II ARO-1

WATER AROCLOR SURROGATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

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	ABLK2M	76		85		74		75				0
02	ALCS2M	78		86		78		80				0
03	H30T9	62		67		48		47				0
04	H30W0	61		66		39		38				0
05	H30W1	73		79		48		48				0
06	H30W2	74		81		54		54				0
07	H30W3	78		86		58		59				0
08	H30W4	72		78		60		60				0
09	H30W5	76		83		60		61				0
10	H30W6	69		75		54		54				0
11	H30W7	72		79		54		54				0
12	H30W8	64		70		47		47				0
13	H30X0	67		73		55		56				0
14	H30X1	67		74		53		54				0
15	H30Y2	55		59		26	*	25	*			2
16	H30Y3	42		45		19	*	18	*			2
17	H30Y4	36		38		21	*	20	*			2
18	H30Y5	48		50		18	*	17	*			2
19	H30Y6	32		33		16	*	15	*			2
20	H30Z6	50		54		47		47				0
21	H30X3	48		52		18	*	17	*			2
22	ABLK2N	75		83		77		80				0
23	ALCS2N	77		85		76		79				0
24	H30X3MS	57		60		38		38				0
25	H30X3MSD	49		51		34		33				0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

3J - FORM III ARO-1

WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix Spike - EPA Sample No.: H30X3

Instrument ID: E2 GC Column : CLPPest ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
AR1016	4.0000	0.0000	2.2486	56		29-135
AR1260	4.0000	0.0000	1.8070	45		29-135

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
AR1016	4.0000	1.9609	49		14		0-15	29-135
AR1260	4.0000	1.4968	37		19		0-20	29-135

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3J - FORM III ARO-1

WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix Spike - EPA Sample No.: H30X3

Instrument ID: E2 GC Column : CLPPestII ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
AR1016	4.0000	0.0000	2.7375	68		29-135
AR1260	4.0000	0.0000	1.8199	45		29-135

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
AR1016	4.0000	2.3691	59		14		0-15	29-135
AR1260	4.0000	1.4383	36		23	*	0-20	29-135

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

* Values outside of QC limits

RPD: 1 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS2M

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Lab Sample ID: LCS-62638 LCS Lot No.:

Date Extracted: 11/02/2011 Date Analyzed (1): 11/16/2011

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	1.0000	0.9955	100		50-150
Aroclor-1260	1.0000	0.9097	91		50-150

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 11/16/2011

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	1.0000	0.9269	93		50-150
Aroclor-1260	1.0000	0.8272	83		50-150

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 RECOVERY

EPA SAMPLE NO.

ALCS2N

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Lab Sample ID: LCS-62719 LCS Lot No.:

Date Extracted: 11/03/2011 Date Analyzed (1): 11/16/2011

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	1.0000	0.9616	96		50-150
Aroclor-1260	1.0000	0.9199	92		50-150

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 11/16/2011

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	1.0000	0.9050	91		50-150
Aroclor-1260	1.0000	0.8618	86		50-150

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:

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.
ABLK2M

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Lab File ID: E2K7948F.D / E2K7948R.D Lab Sample ID: MB-62638

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 11/02/2011

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 11/16/2011 Date Analyzed (2): 11/16/2011

Time Analyzed (1): 3:55 Time Analyzed (2): 3:55

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	ALCS2M	LCS-62638	11/16/2011	11/16/2011
02	H30T9	K2200-02B	11/16/2011	11/16/2011
03	H30W0	K2200-03B	11/16/2011	11/16/2011
04	H30W1	K2200-04B	11/16/2011	11/16/2011
05	H30W2	K2200-05B	11/16/2011	11/16/2011
06	H30W3	K2200-06B	11/16/2011	11/16/2011
07	H30W4	K2200-07B	11/16/2011	11/16/2011
08	H30W5	K2200-08B	11/16/2011	11/16/2011
09	H30W6	K2200-09B	11/16/2011	11/16/2011
10	H30W7	K2200-10B	11/16/2011	11/16/2011
11	H30W8	K2200-11B	11/16/2011	11/16/2011
12	H30X0	K2200-12B	11/16/2011	11/16/2011
13	H30X1	K2200-13B	11/16/2011	11/16/2011
14	H30Y2	K2200-14B	11/16/2011	11/16/2011
15	H30Y3	K2200-15B	11/16/2011	11/16/2011
16	H30Y4	K2200-16B	11/16/2011	11/16/2011
17	H30Y5	K2200-17B	11/16/2011	11/16/2011
18	H30Y6	K2200-18B	11/16/2011	11/16/2011
19	H30Z6	K2200-19B	11/16/2011	11/16/2011
20	H30X3	K2200-20A	11/16/2011	11/16/2011

COMMENTS:

4F - FORM IV ARO
AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.
ABLK2N

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Lab File ID: E2K7969F.D / E2K7969R.D Lab Sample ID: MB-62719

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 11/03/2011

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 11/16/2011 Date Analyzed (2): 11/16/2011

Time Analyzed (1): 11:14 Time Analyzed (2): 11:14

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	ALCS2N	LCS-62719	11/16/2011	11/16/2011
02	H30X3MS	K2200-20AMS	11/16/2011	11/16/2011
03	H30X3MSD	K2200-20AMSD	11/16/2011	11/16/2011

COMMENTS:

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30T9

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7950F.D/E2K7950R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7950F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7950F.D
Lab Smp Id: K2200-02B Client Smp ID: H30T9
Inj Date : 16-NOV-2011 04:36
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-02B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

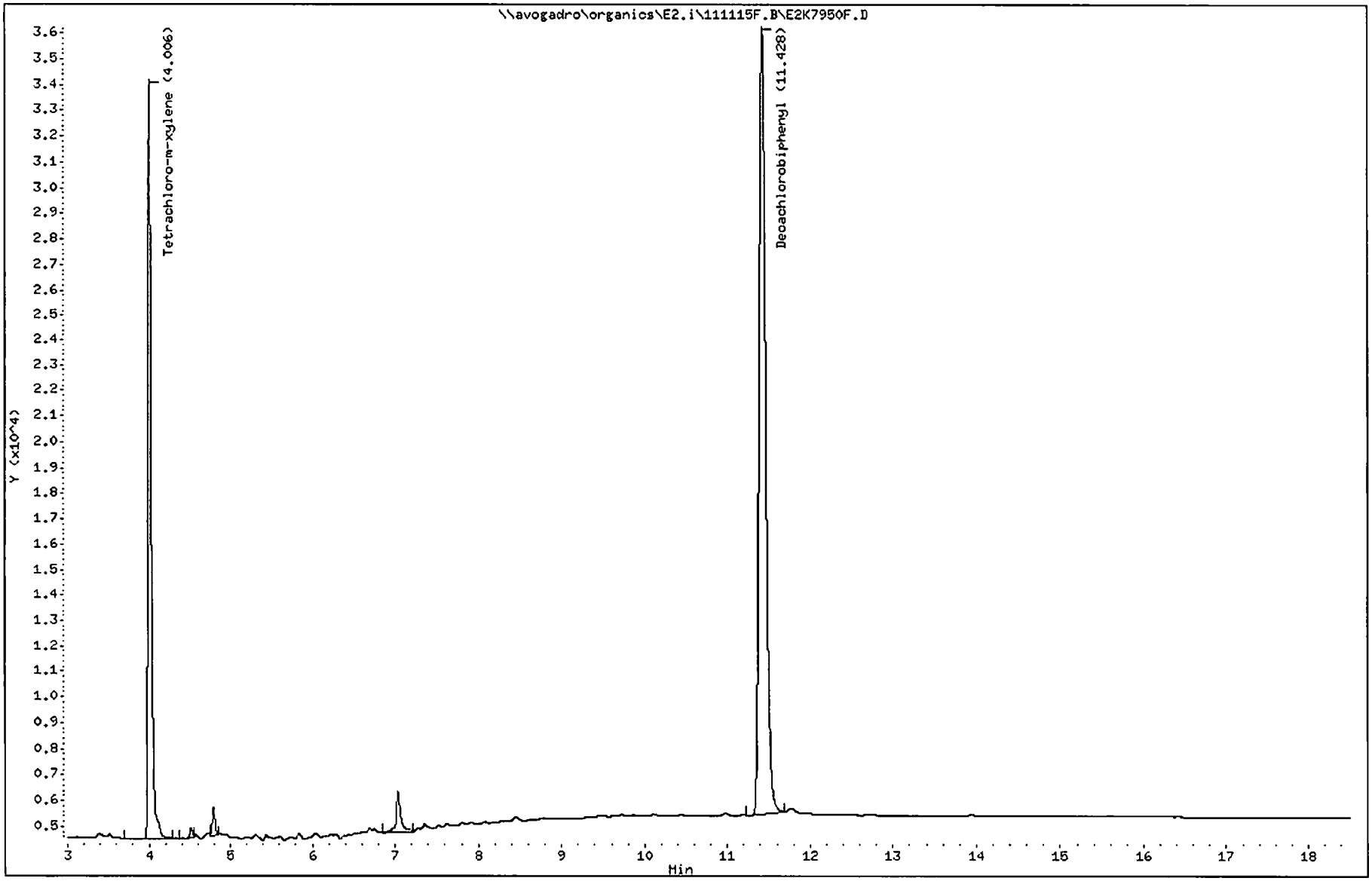
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.005	4.001	0.004	799433	0.03749	0.37		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.427	11.422	0.005	1676101	0.05719	0.57		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7950F.D
Date : 16-NOV-2011 04:36
Client ID: H30T9
Sample Info: K2200-02B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7950R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7950R.D
Lab Smp Id: K2200-02B Client Smp ID: H30T9
Inj Date : 16-NOV-2011 04:36
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-02B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

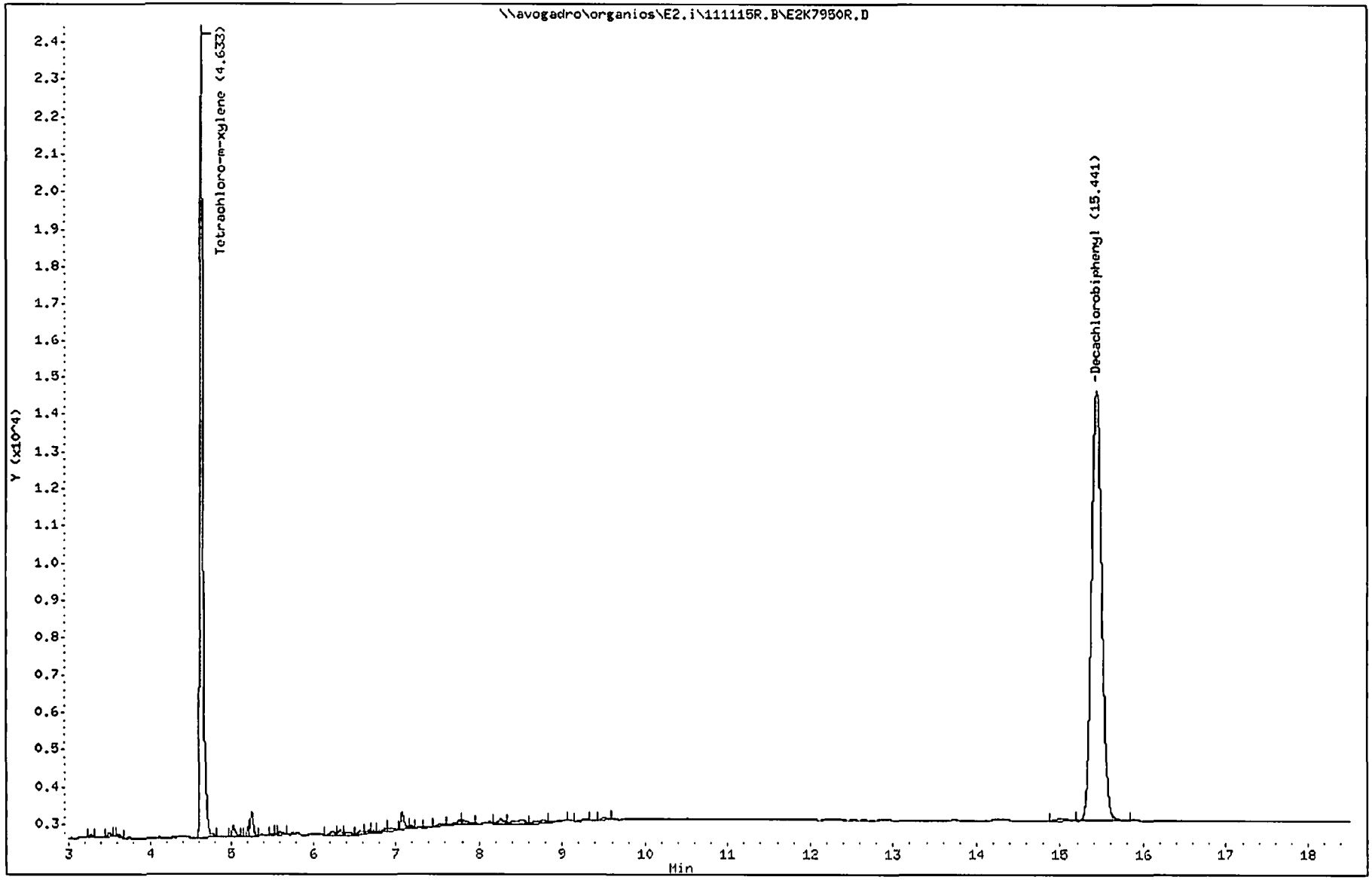
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.633	4.629	0.004	526808	0.04025	0.40		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.440	15.432	0.008	971109	0.05605	0.56		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7950R.D
Date : 16-NOV-2011 04:36
Client ID: H30T9
Sample Info: K2200-02B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30W0

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7951F.D/E2K7951R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7951F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7951F.D
Lab Smp Id: K2200-03B Client Smp ID: H30W0
Inj Date : 16-NOV-2011 04:57
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-03B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

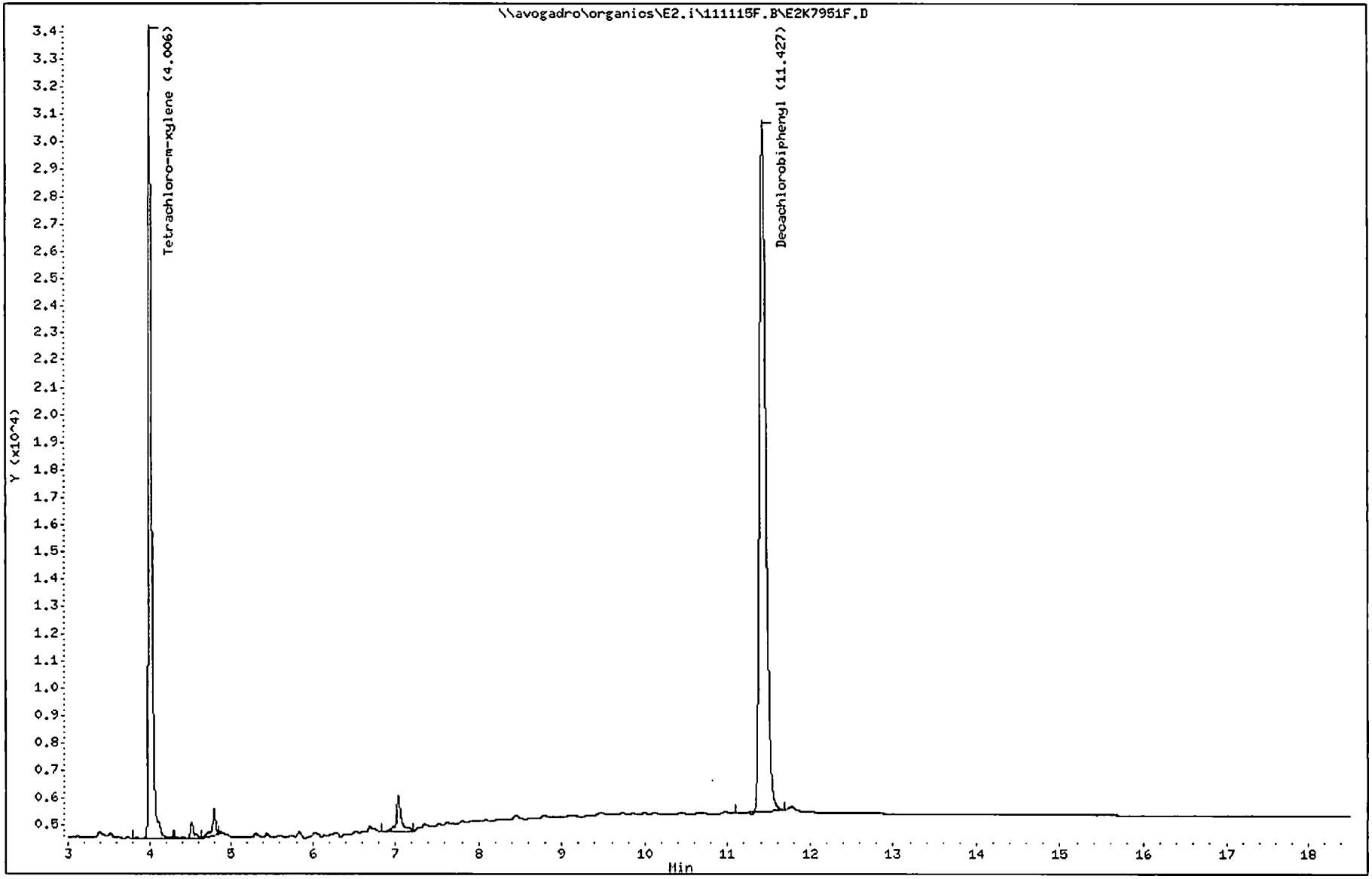
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.005	4.001	0.004	785905	0.03686	0.37		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.427	11.422	0.005	1365579	0.04660	0.46		(M)M6 GMA 11/17

QC Flag Legend

M - Compound response manually integrated.

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7951F.D
Date : 16-NOV-2011 04:57
Client ID: H30W0
Sample Info: K2200-03B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7951R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7951R.D
Lab Smp Id: K2200-03B Client Smp ID: H30W0
Inj Date : 16-NOV-2011 04:57
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-03B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

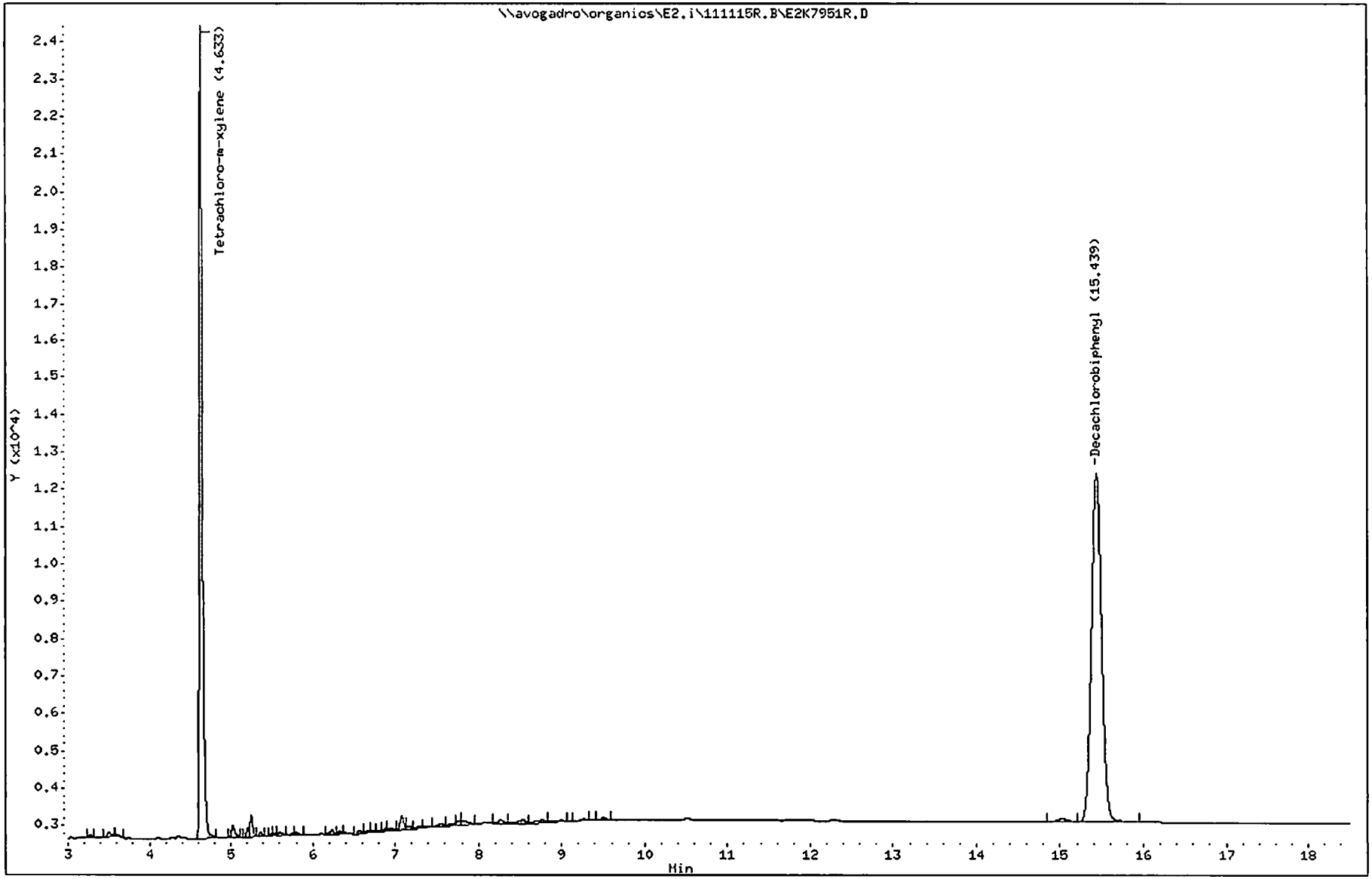
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.633	4.629	0.004	517653	0.03955	0.40		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.439	15.432	0.007	787382	0.04545	0.45		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7951R.D
Date : 16-NOV-2011 04:57
Client ID: H30W0
Sample Info: K2200-03B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30W1

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-04B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7952F.D/E2K7952R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7952F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7952F.D
Lab Smp Id: K2200-04B Client Smp ID: H30W1
Inj Date : 16-NOV-2011 05:18
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-04B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

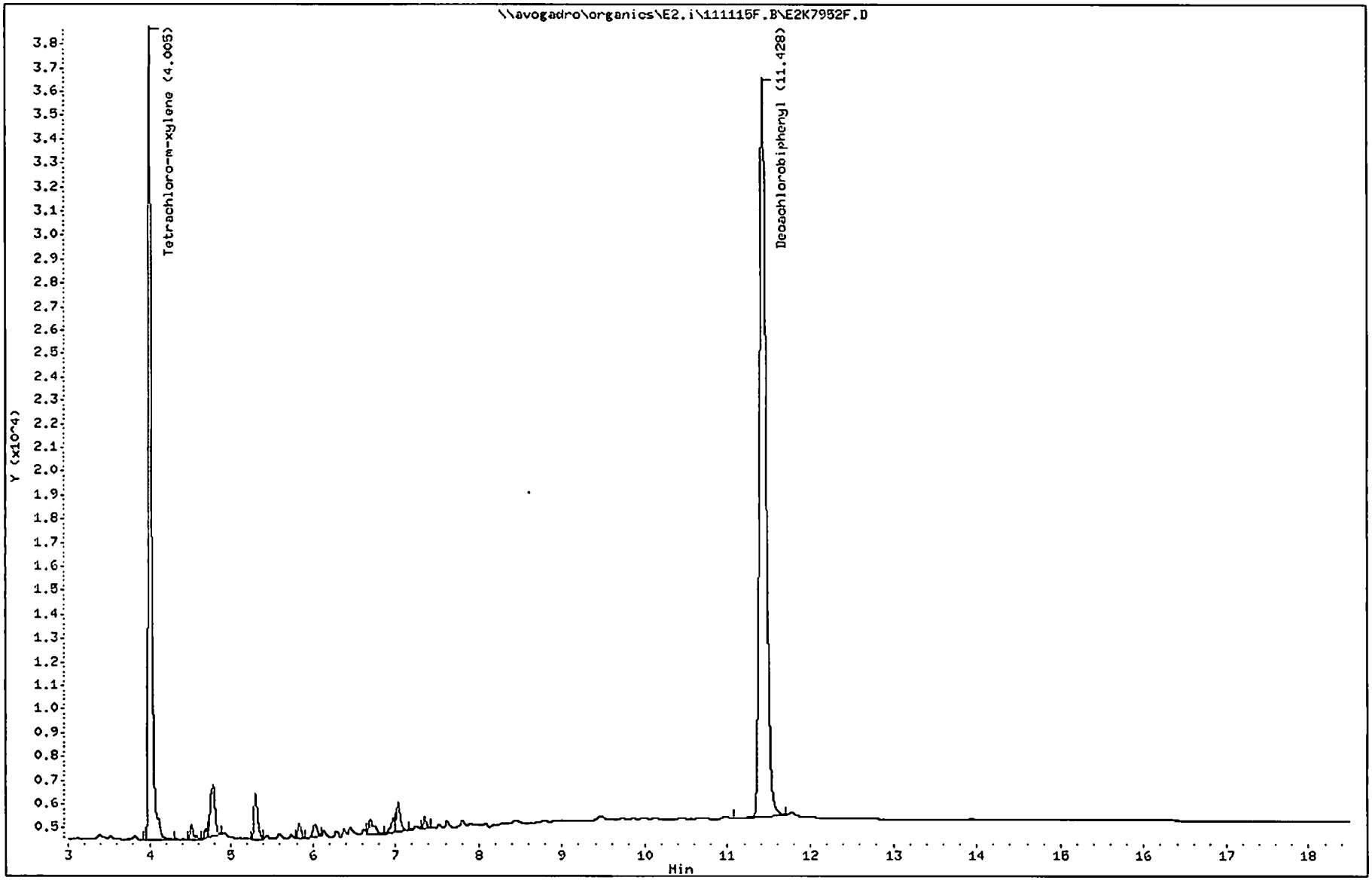
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.004	4.001	0.003	929706	0.04360	0.44		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.428	11.422	0.006	1697911	0.05794	0.58		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7952F.D
Date : 16-NOV-2011 05:18
Client ID: H30W1
Sample Info: K2200-04B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7952R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7952R.D
Lab Smp Id: K2200-04B Client Smp ID: H30W1
Inj Date : 16-NOV-2011 05:18
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-04B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

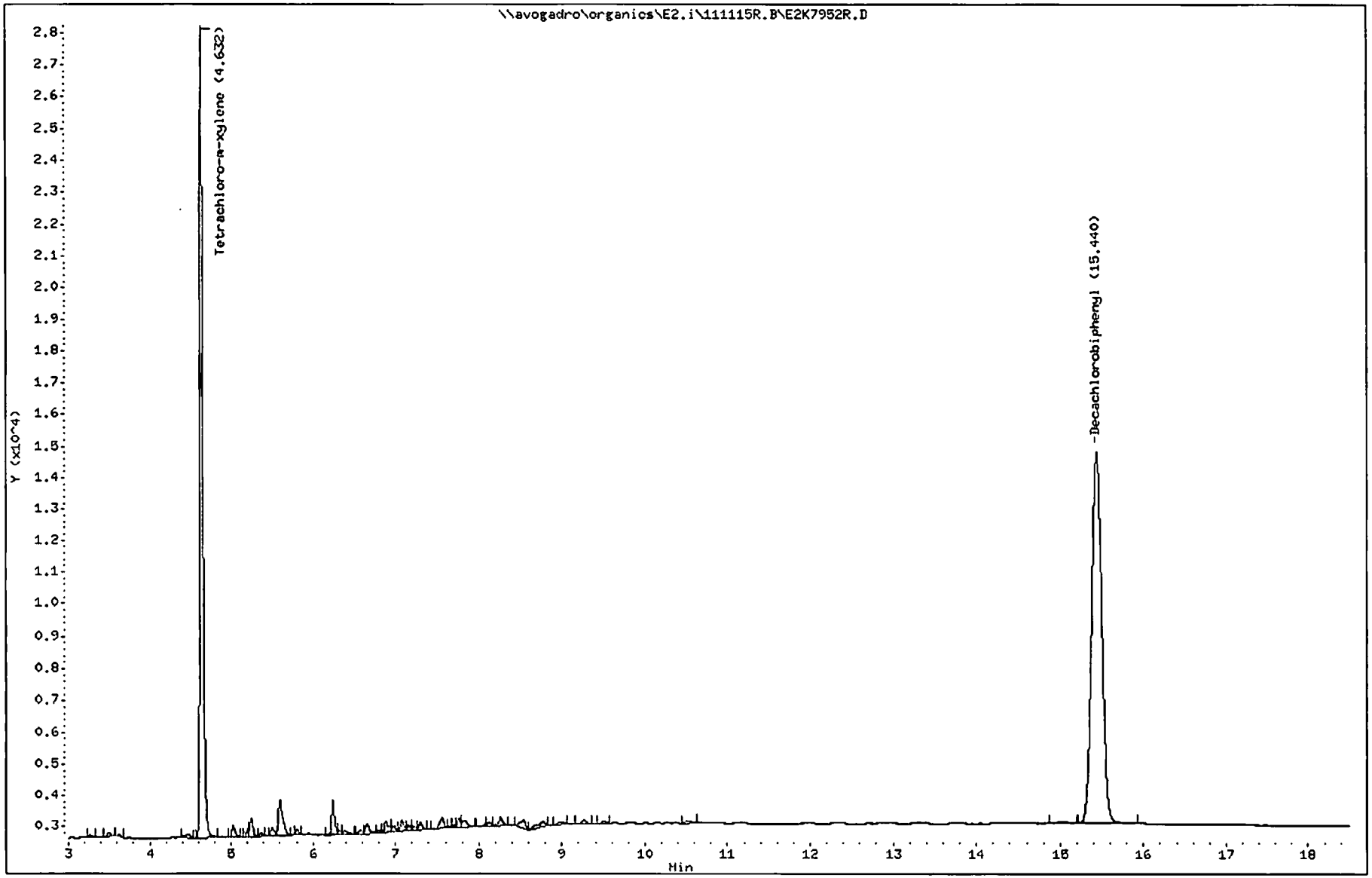
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.632	4.629	0.003	619237	0.04731	0.47		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.440	15.432	0.008	993375	0.05734	0.57		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7952R.D
Date : 16-NOV-2011 05:18
Client ID: H30W1
Sample Info: K2200-04B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30W2

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7953F.D/E2K7953R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7953F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7953F.D
Lab Smp Id: K2200-05B Client Smp ID: H30W2
Inj Date : 16-NOV-2011 05:39
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-05B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

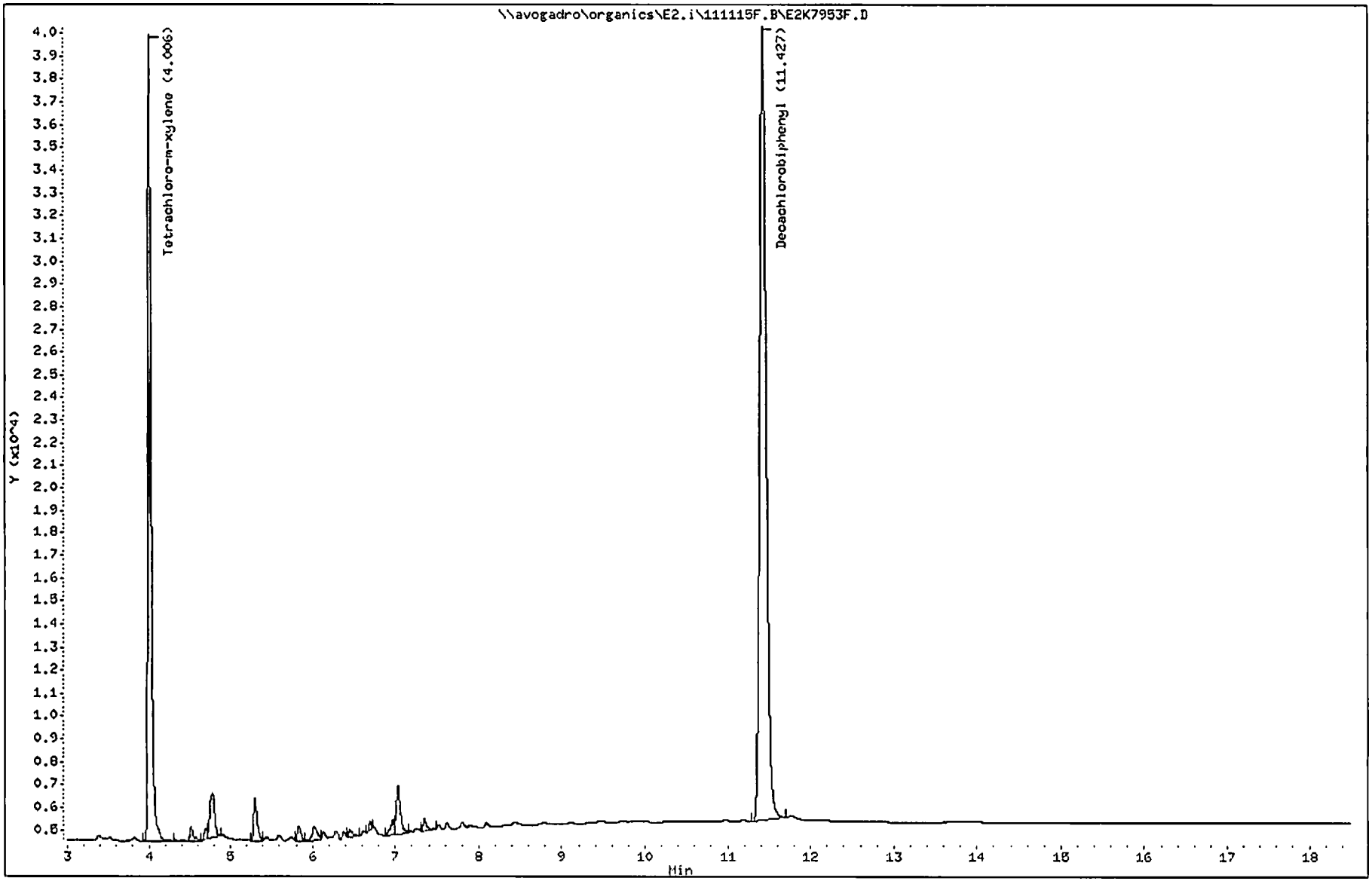
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.005	4.001	0.004	944898	0.04431	0.44		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.427	11.422	0.005	1908948	0.06514	0.65		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7953F.D
Date : 16-NOV-2011 05:39
Client ID: H30W2
Sample Info: K2200-05B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7953R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7953R.D
Lab Smp Id: K2200-05B Client Smp ID: H30W2
Inj Date : 16-NOV-2011 05:39
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-05B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

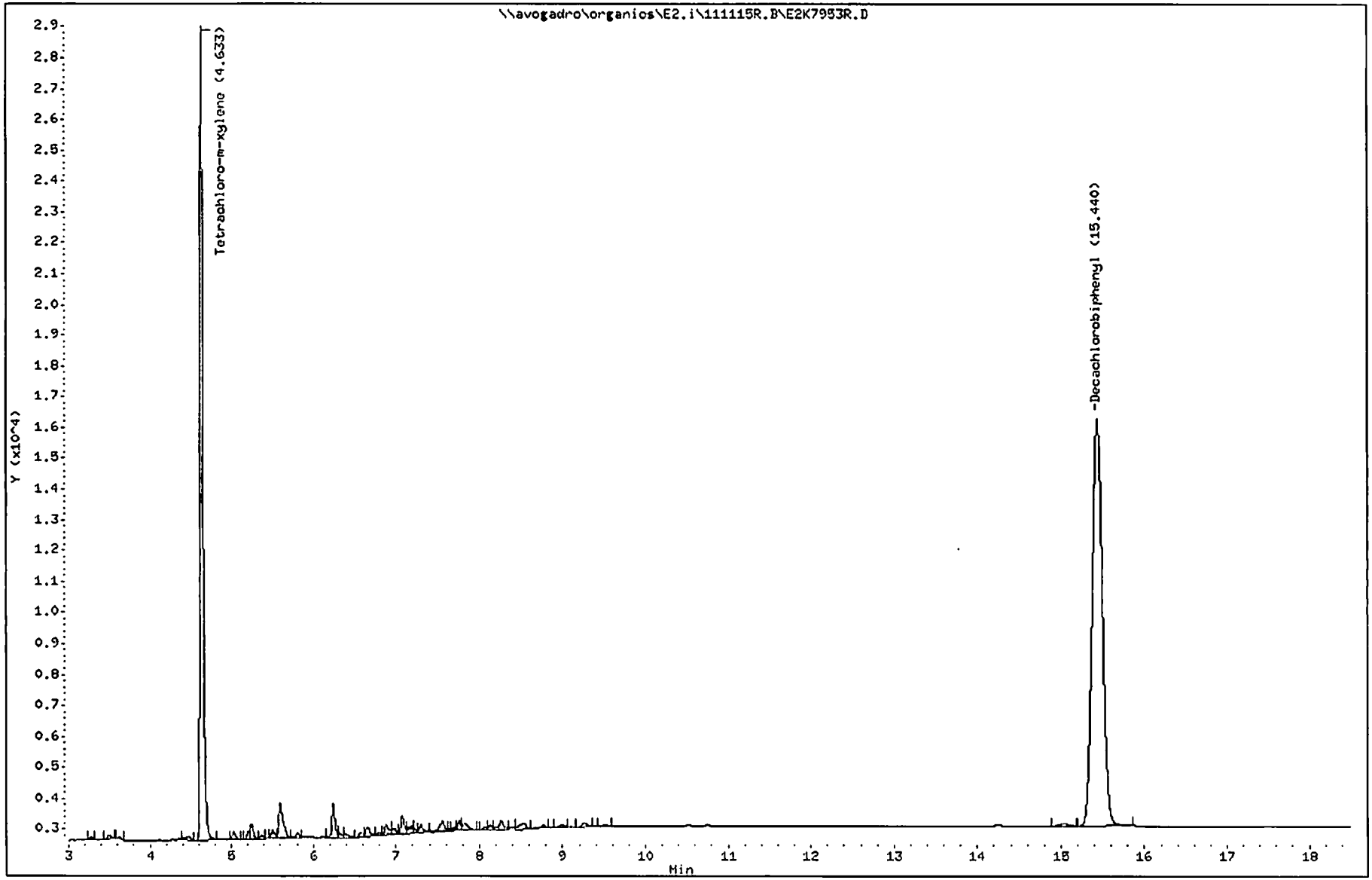
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.632	4.629	0.003	637214	0.04869	0.49		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.439	15.432	0.007	1123834	0.06487	0.65		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7953R.D
Date : 16-NOV-2011 05:39
Client ID: H30W2
Sample Info: K2200-05B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30W3

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7954F.D/E2K7954R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7954F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7954F.D
Lab Smp Id: K2200-06B Client Smp ID: H30W3
Inj Date : 16-NOV-2011 06:00
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-06B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

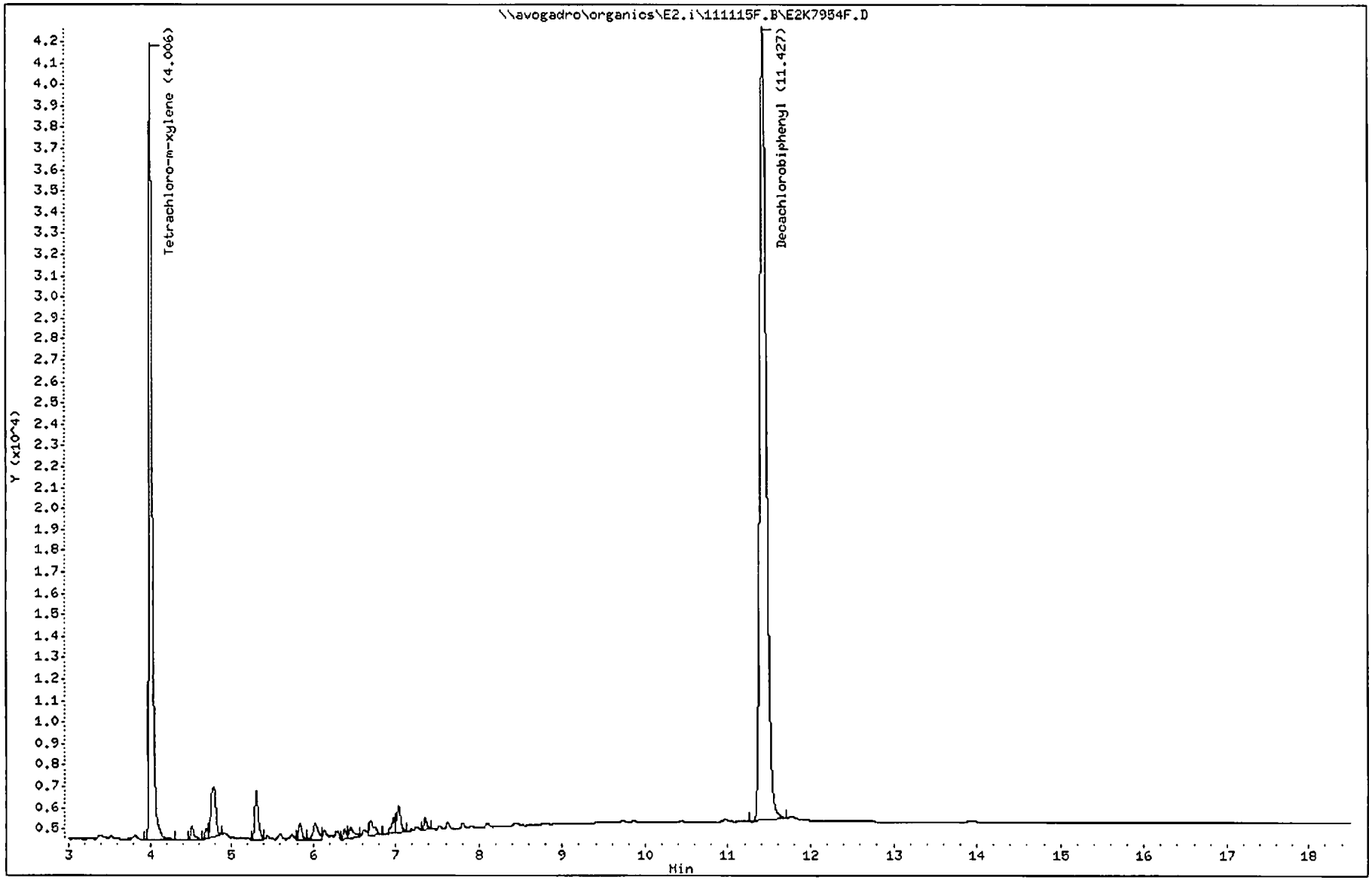
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.006	4.001	0.005	996209	0.04672	0.47		
S 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.426	11.422	0.004	2049906	0.06995	0.70		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7954F.D
Date : 16-NOV-2011 06:00
Client ID: H3OW3
Sample Info: K2200-06B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7954R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7954R.D
Lab Smp Id: K2200-06B Client Smp ID: H30W3
Inj Date : 16-NOV-2011 06:00
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-06B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

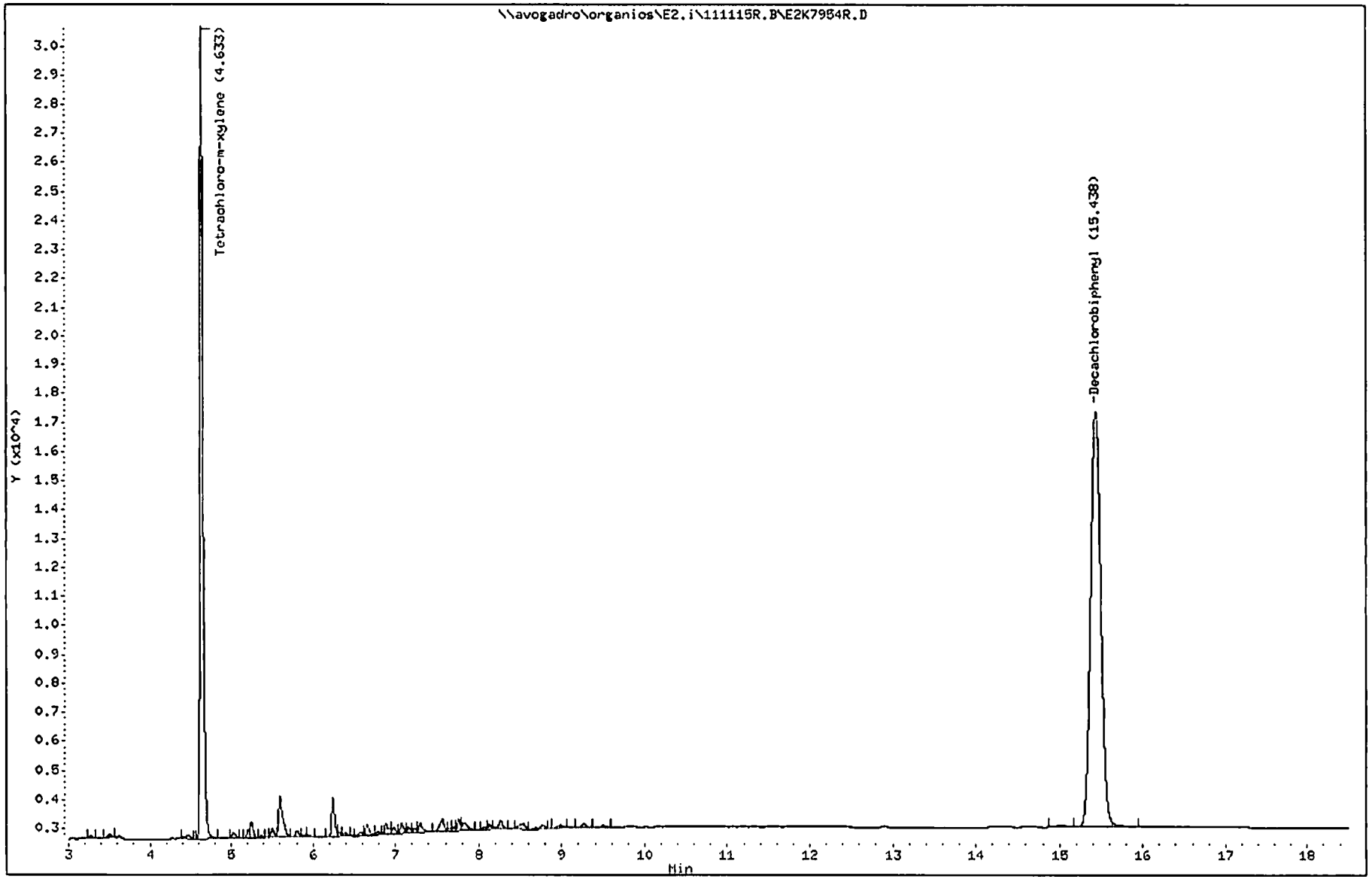
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.633	4.629	0.004	675761	0.05163	0.52		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.438	15.432	0.006	1216308	0.07020	0.70		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7954R.D
Date : 16-NOV-2011 06:00
Client ID: H30W3
Sample Info: K2200-06B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30W4

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-07B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7955F.D/E2K7955R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7955F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7955F.D
Lab Smp Id: K2200-07B Client Smp ID: H30W4
Inj Date : 16-NOV-2011 06:21
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-07B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

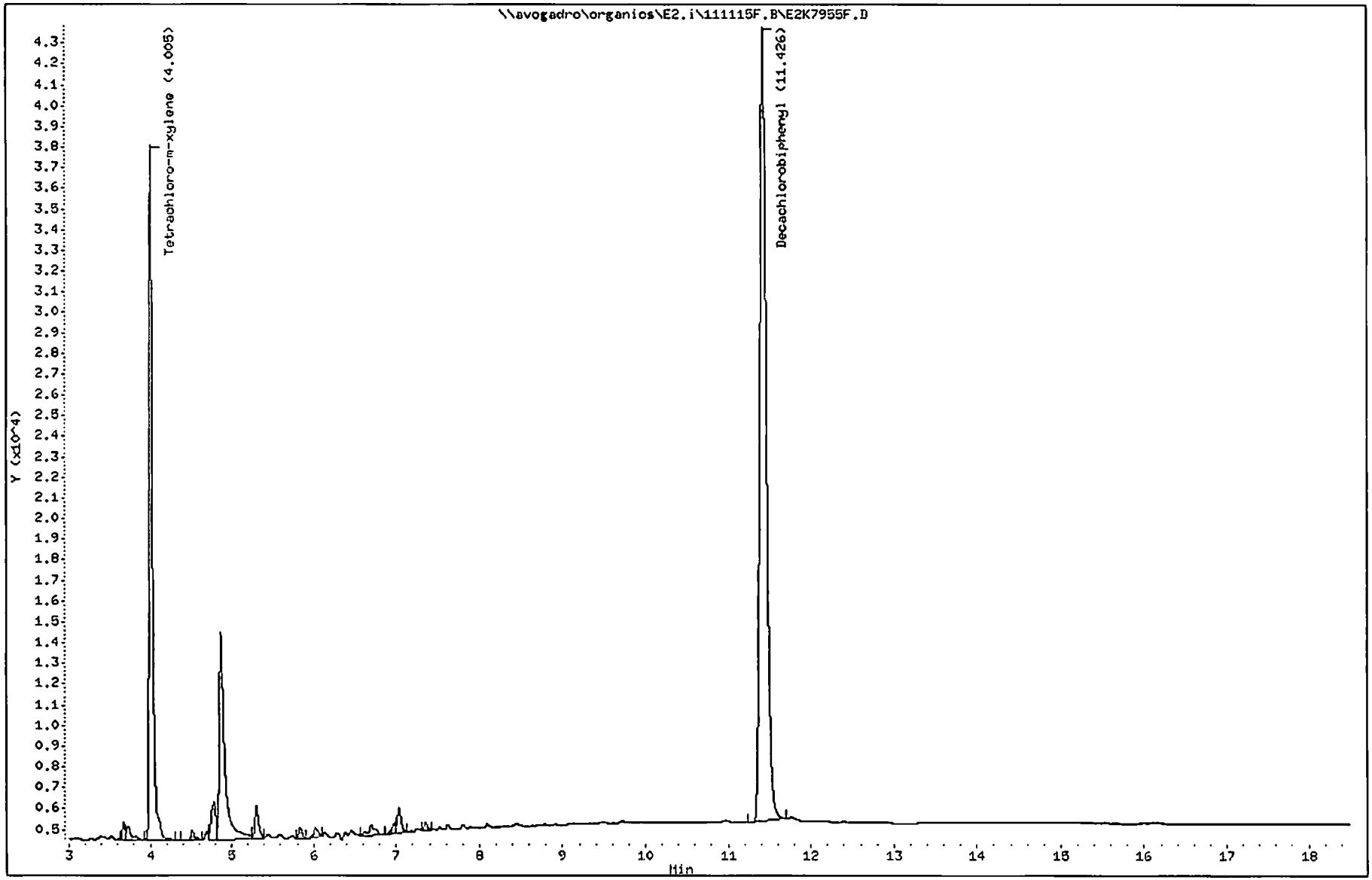
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.005	4.001	0.004	918439	0.04307	0.43		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.426	11.422	0.004	2107231	0.07191	0.72		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7955F.D
Date : 16-NOV-2011 06:21
Client ID: H30W4
Sample Info: K2200-07B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7955R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7955R.D
Lab Smp Id: K2200-07B Client Smp ID: H30W4
Inj Date : 16-NOV-2011 06:21
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-07B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

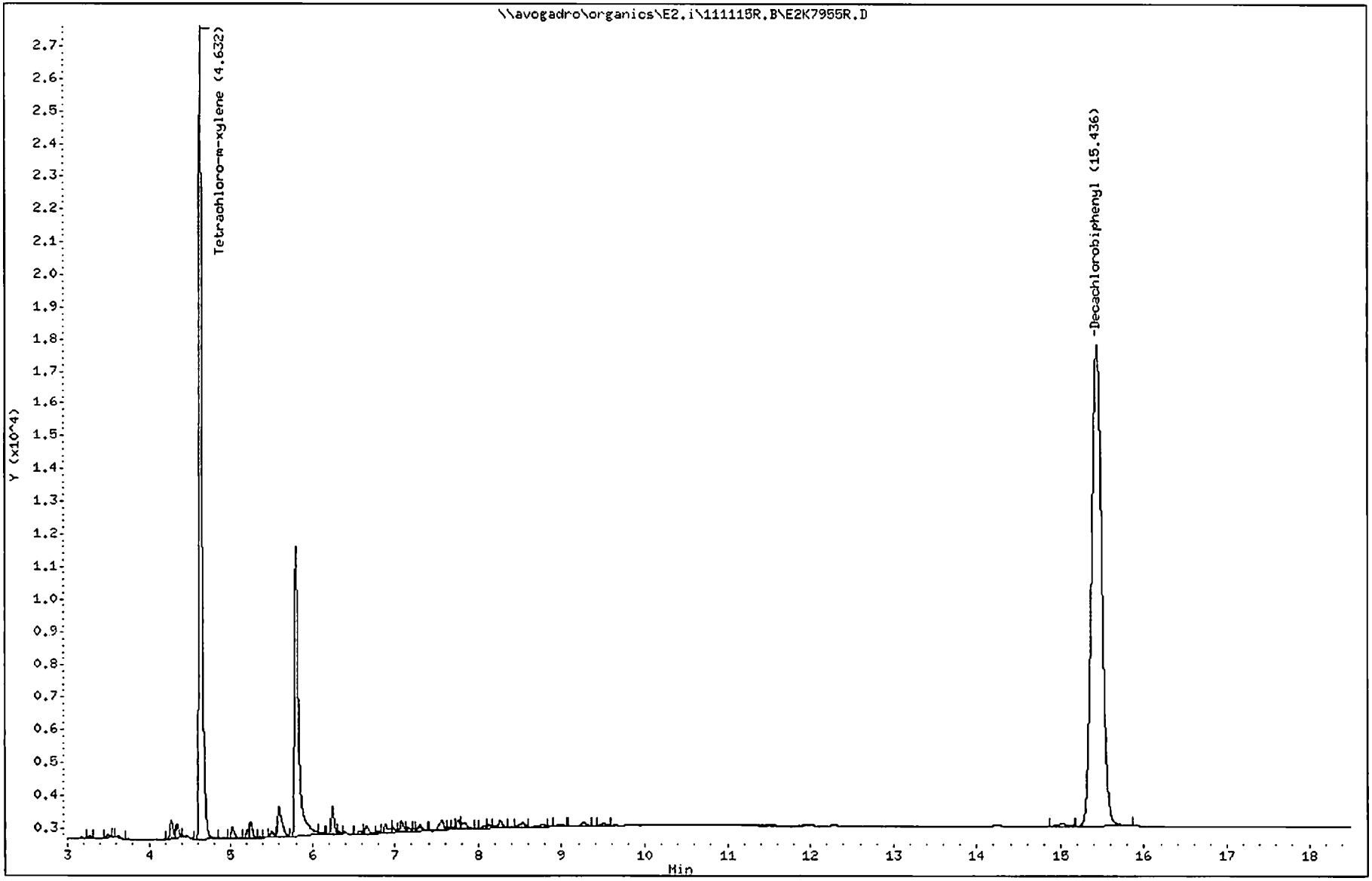
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.632	4.629	0.003	613868	0.04690	0.47		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.436	15.432	0.004	1251981	0.07226	0.72		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7955R.D
Date : 16-NOV-2011 06:21
Client ID: H30W4
Sample Info: K2200-07B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30W5

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-08B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7956F.D/E2K7956R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7956F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7956F.D
Lab Smp Id: K2200-08B Client Smp ID: H30W5
Inj Date : 16-NOV-2011 06:42
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-08B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

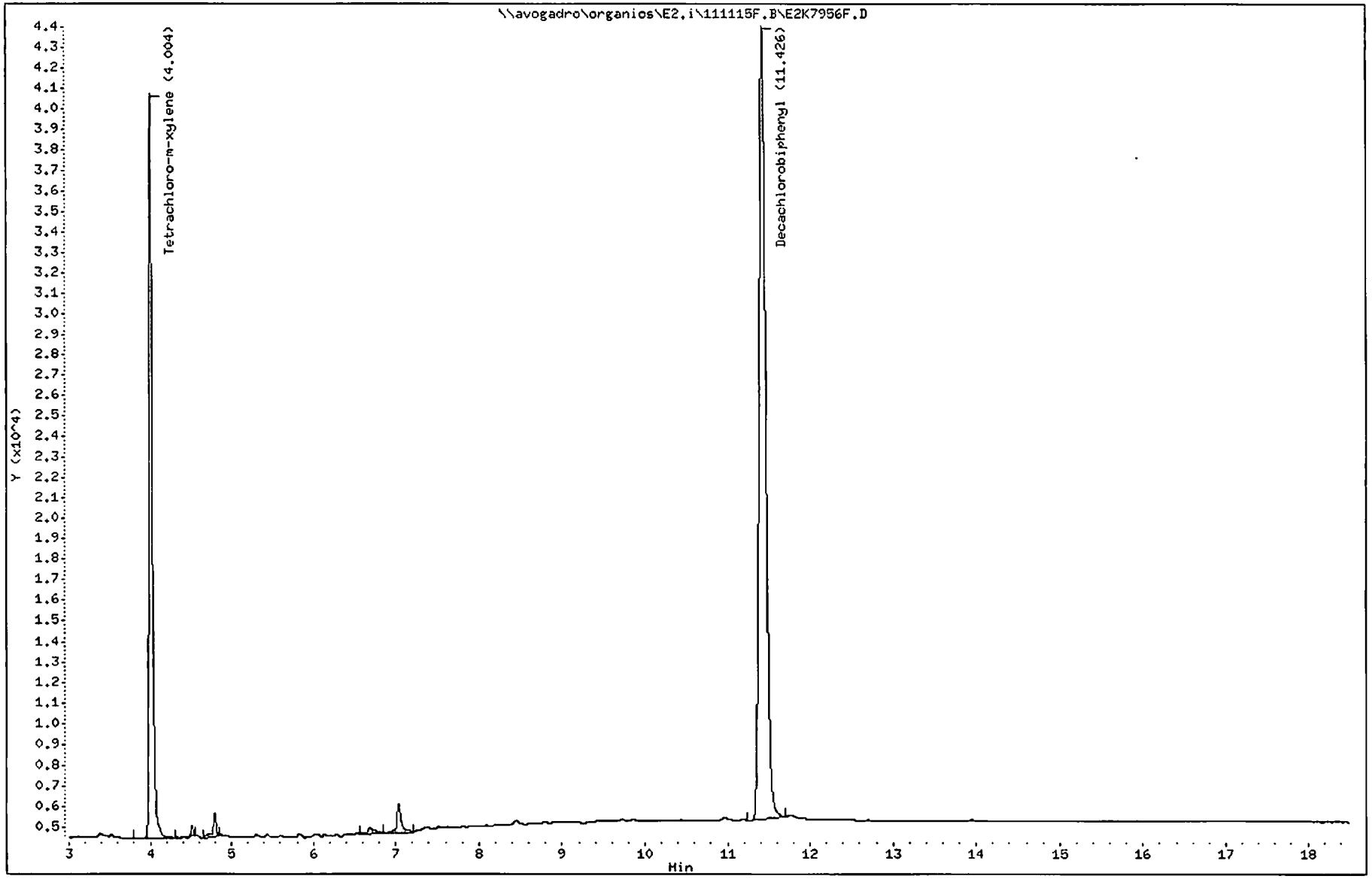
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	969188	0.04545	0.45			(M)M6 GMA 11/17
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.425	11.422	0.003	2122774	0.07244	0.72			(M)M6 GMA 11/17

QC Flag Legend

M - Compound response manually integrated.

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7956F.D
Date : 16-NOV-2011 06:42
Client ID: H30W5
Sample Info: K2200-08B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7956R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7956R.D
Lab Smp Id: K2200-08B Client Smp ID: H30W5
Inj Date : 16-NOV-2011 06:42
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-08B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

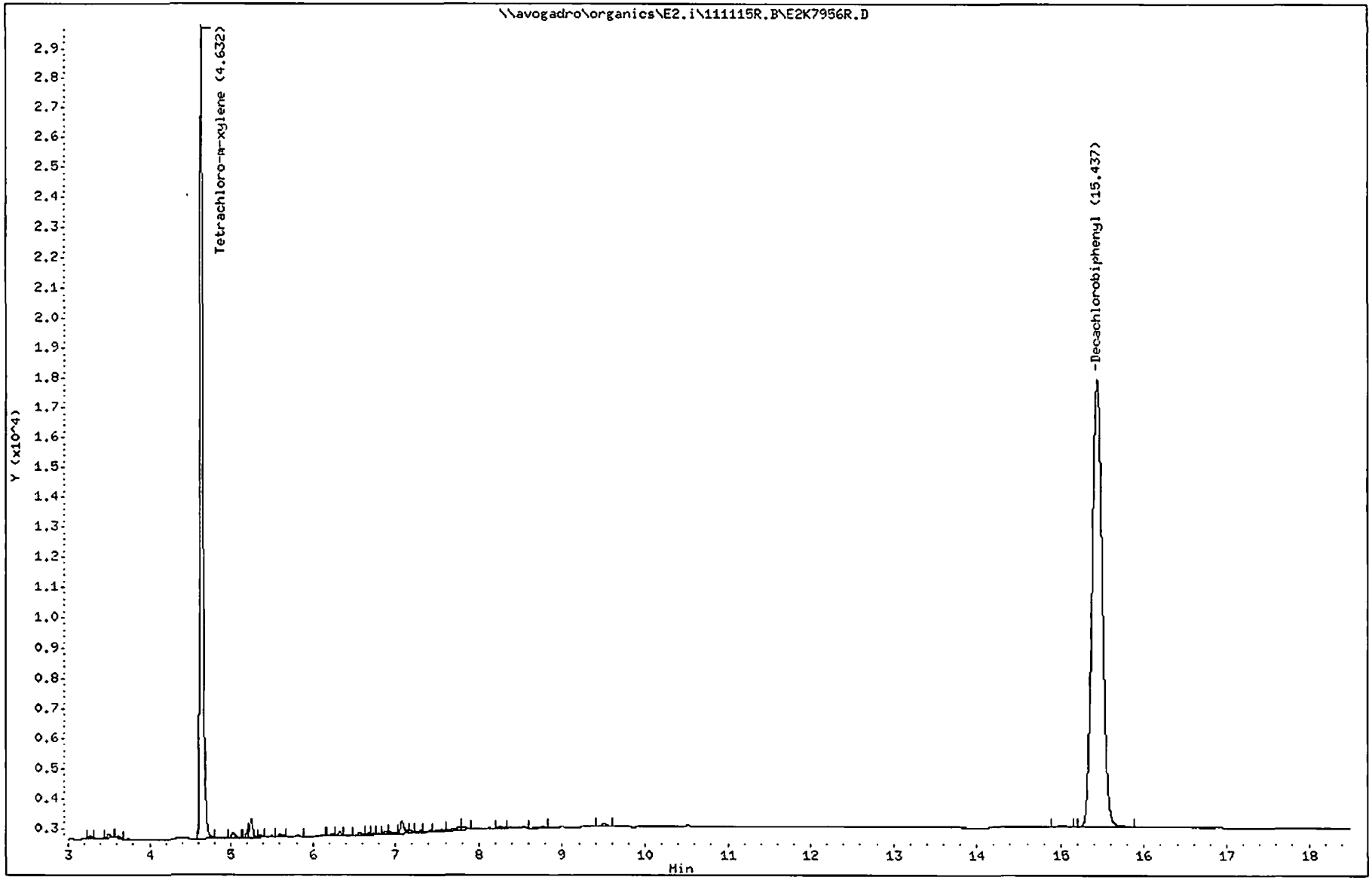
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.632	4.629	0.003	654642	0.05002	0.50		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.437	15.432	0.005	1267975	0.07319	0.73		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7956R.D
Date : 16-NOV-2011 06:42
Client ID: H30W5
Sample Info: K2200-08B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30W6

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-09B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7957F.D/E2K7957R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7957F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7957F.D
Lab Smp Id: K2200-09B Client Smp ID: H30W6
Inj Date : 16-NOV-2011 07:03
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-09B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

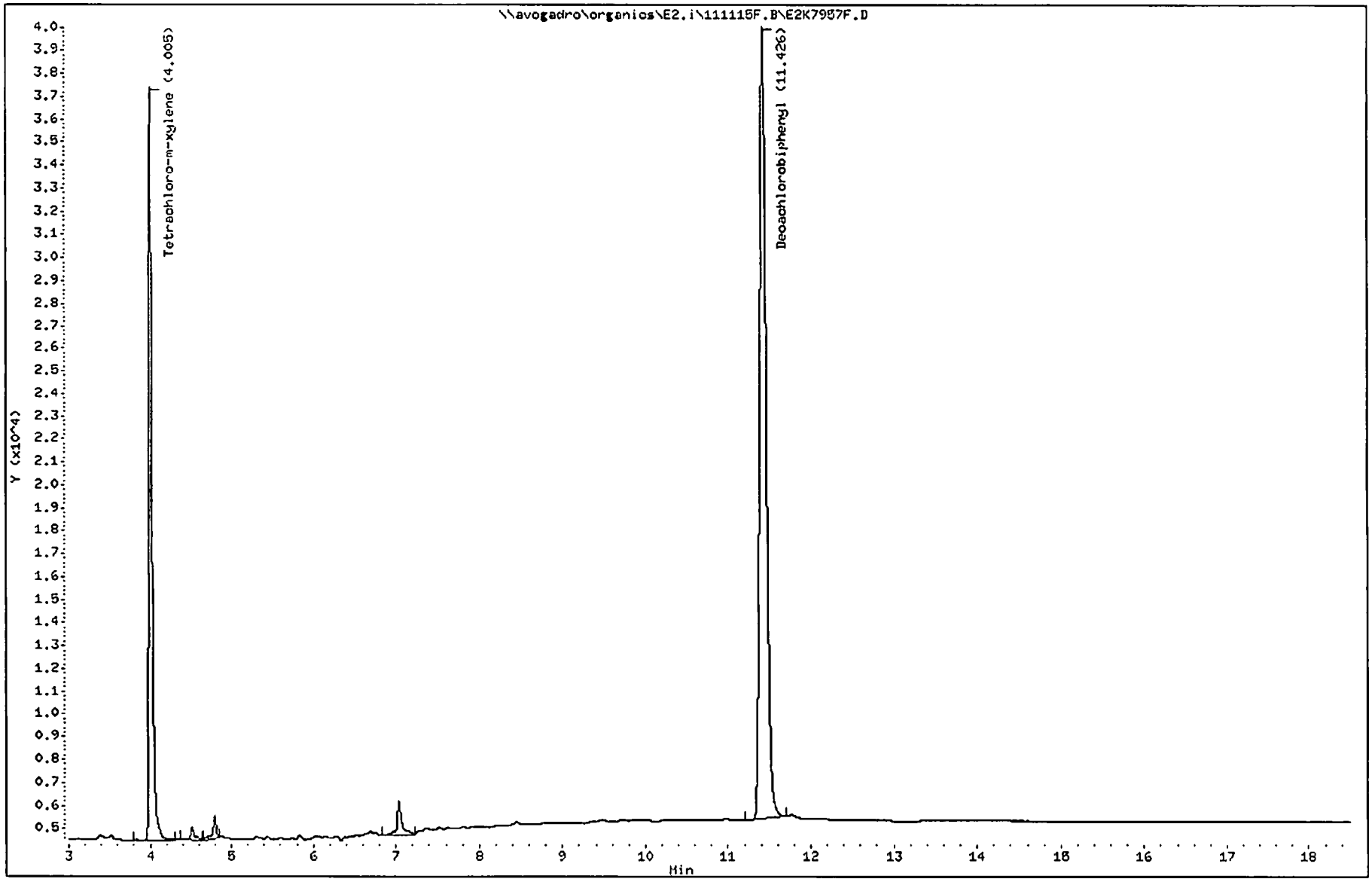
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.004	4.001	0.003	882043	0.04137	0.41		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.426	11.422	0.004	1898754	0.06479	0.65		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7957F.D
Date : 16-NOV-2011 07:03
Client ID: H3OW6
Sample Info: K2200-09B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7957R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7957R.D
Lab Smp Id: K2200-09B Client Smp ID: H30W6
Inj Date : 16-NOV-2011 07:03
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-09B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

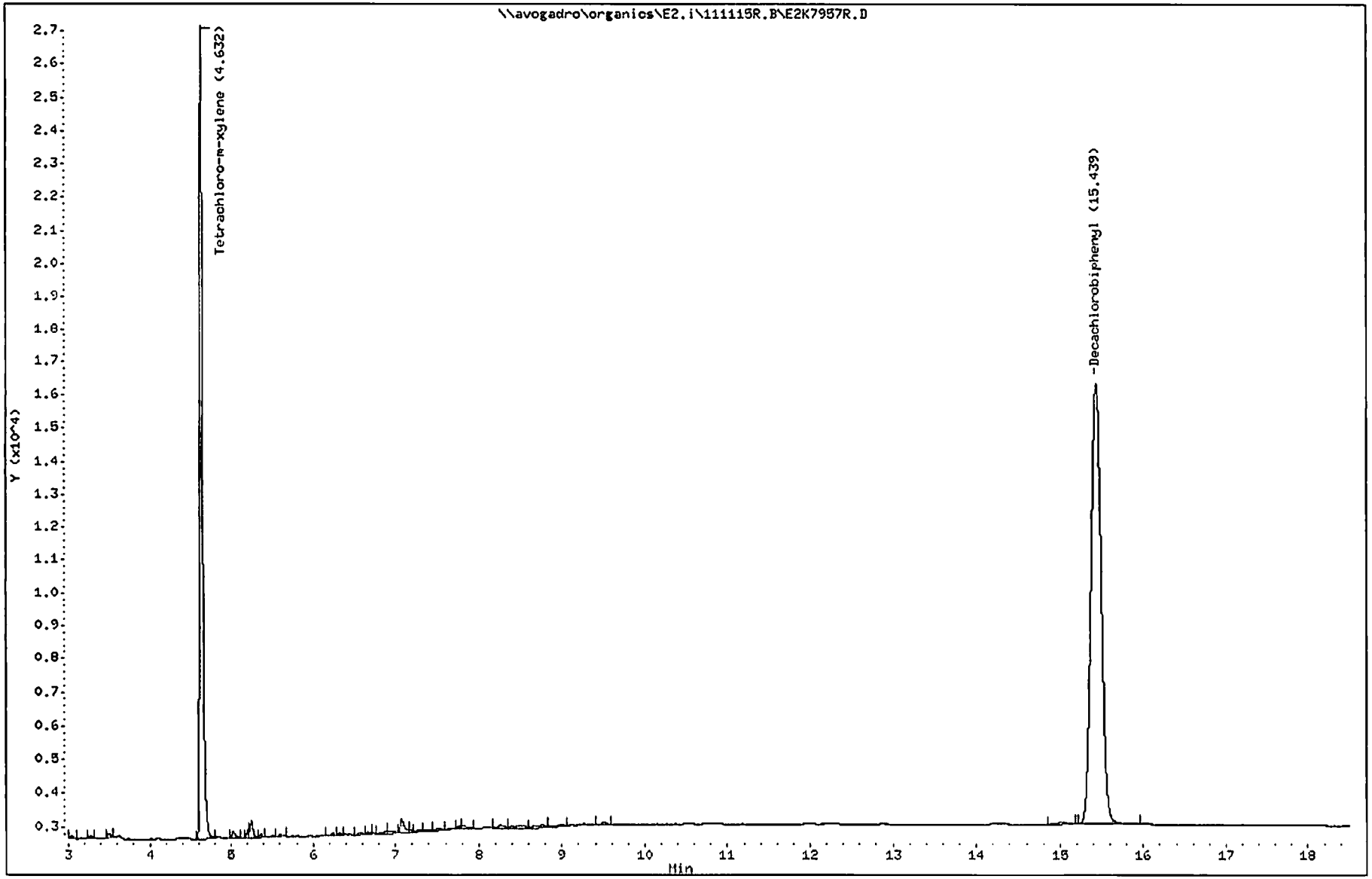
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.631	4.629	0.002	590549	0.04512	0.45		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.438	15.432	0.006	1127711	0.06509	0.65		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7957R.D
Date : 16-NOV-2011 07:03
Client ID: H3046
Sample Info: K2200-09B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30W7

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7958F.D/E2K7958R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7958F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7958F.D
Lab Smp Id: K2200-10B Client Smp ID: H30W7
Inj Date : 16-NOV-2011 07:24
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-10B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

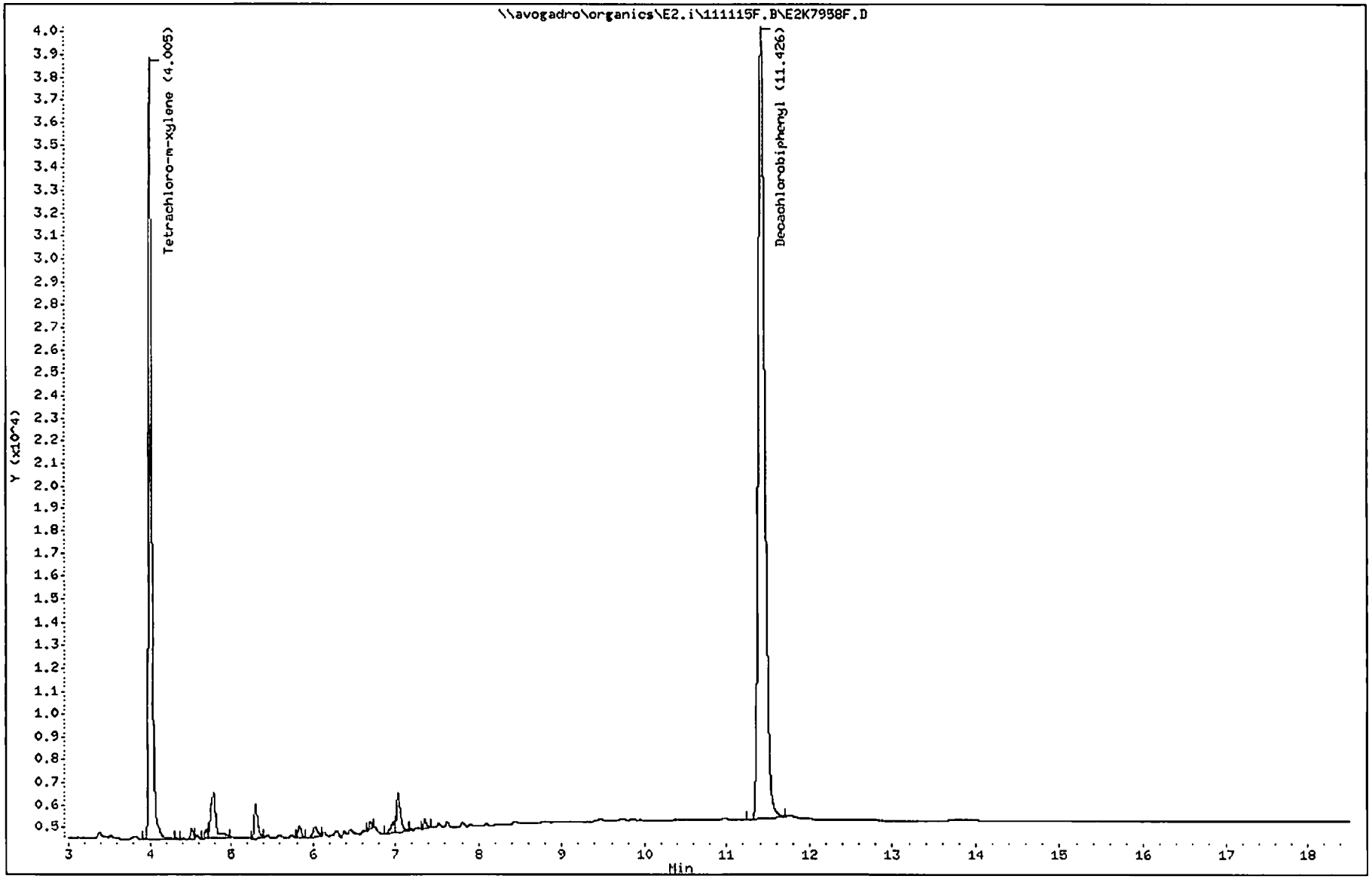
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.005	4.001	0.004	917248	0.04302	0.43		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.425	11.422	0.003	1903010	0.06494	0.65		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7958F.D
Date : 16-NOV-2011 07:24
Client ID: H30W7
Sample Info: K2200-10B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7958R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7958R.D
Lab Smp Id: K2200-10B Client Smp ID: H30W7
Inj Date : 16-NOV-2011 07:24
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-10B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

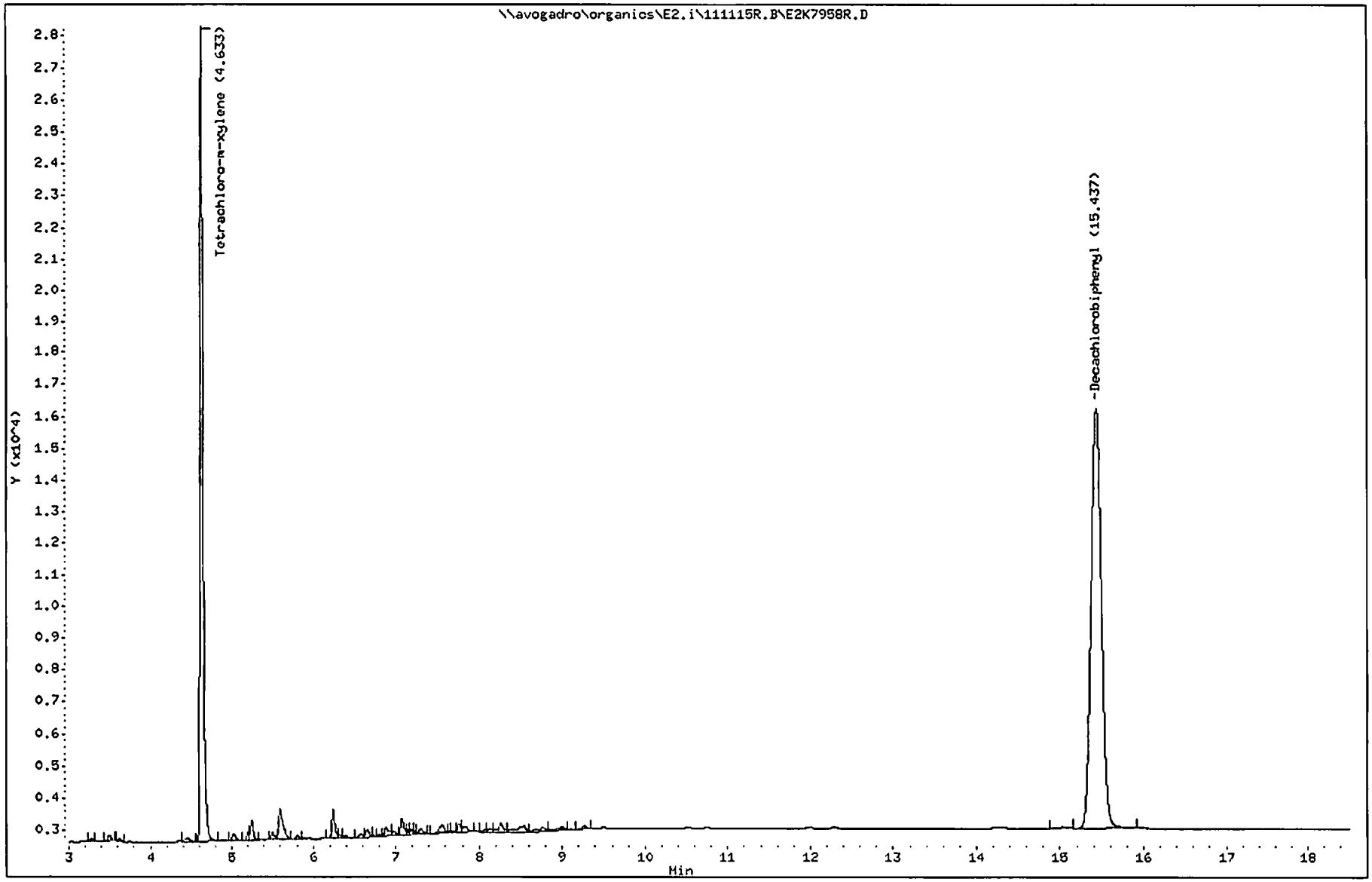
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.632	4.629	0.003	619545	0.04734	0.47		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.436	15.432	0.004	1127876	0.06510	0.65		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7958R.D
Date : 16-NOV-2011 07:24
Client ID: H30W7
Sample Info: K2200-10B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30W8

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-11B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7959F.D/E2K7959R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7959F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7959F.D
Lab Smp Id: K2200-11B Client Smp ID: H30W8
Inj Date : 16-NOV-2011 07:45
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-11B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

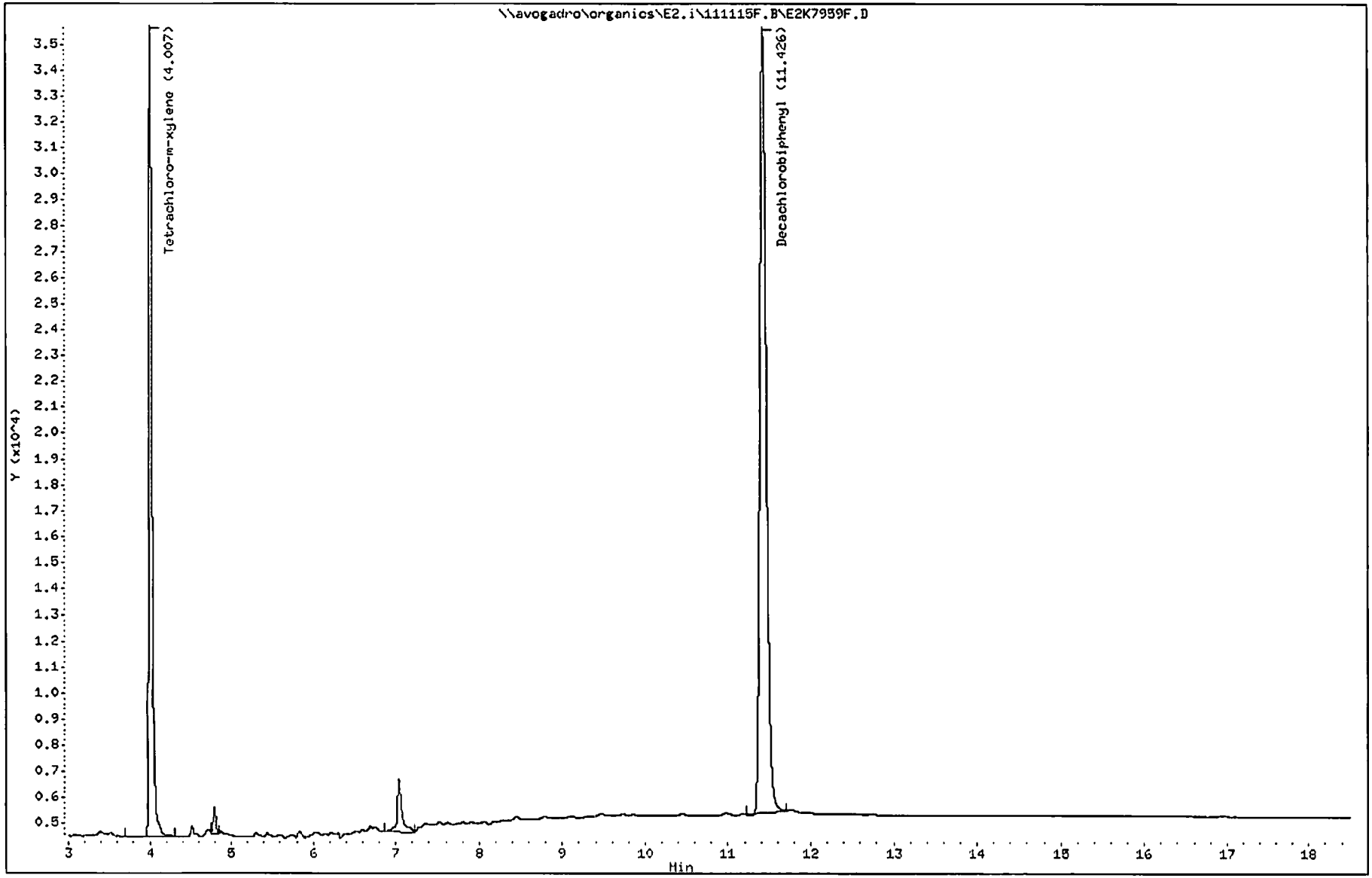
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.006	4.001	0.005	822873	0.03859	0.38		
S 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.426	11.422	0.004	1649294	0.05628	0.56		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7959F.D
Date : 16-NOV-2011 07:45
Client ID: H30W8
Sample Info: K2200-11B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7959R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7959R.D
Lab Smp Id: K2200-11B Client Smp ID: H30W8
Inj Date : 16-NOV-2011 07:45
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-11B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

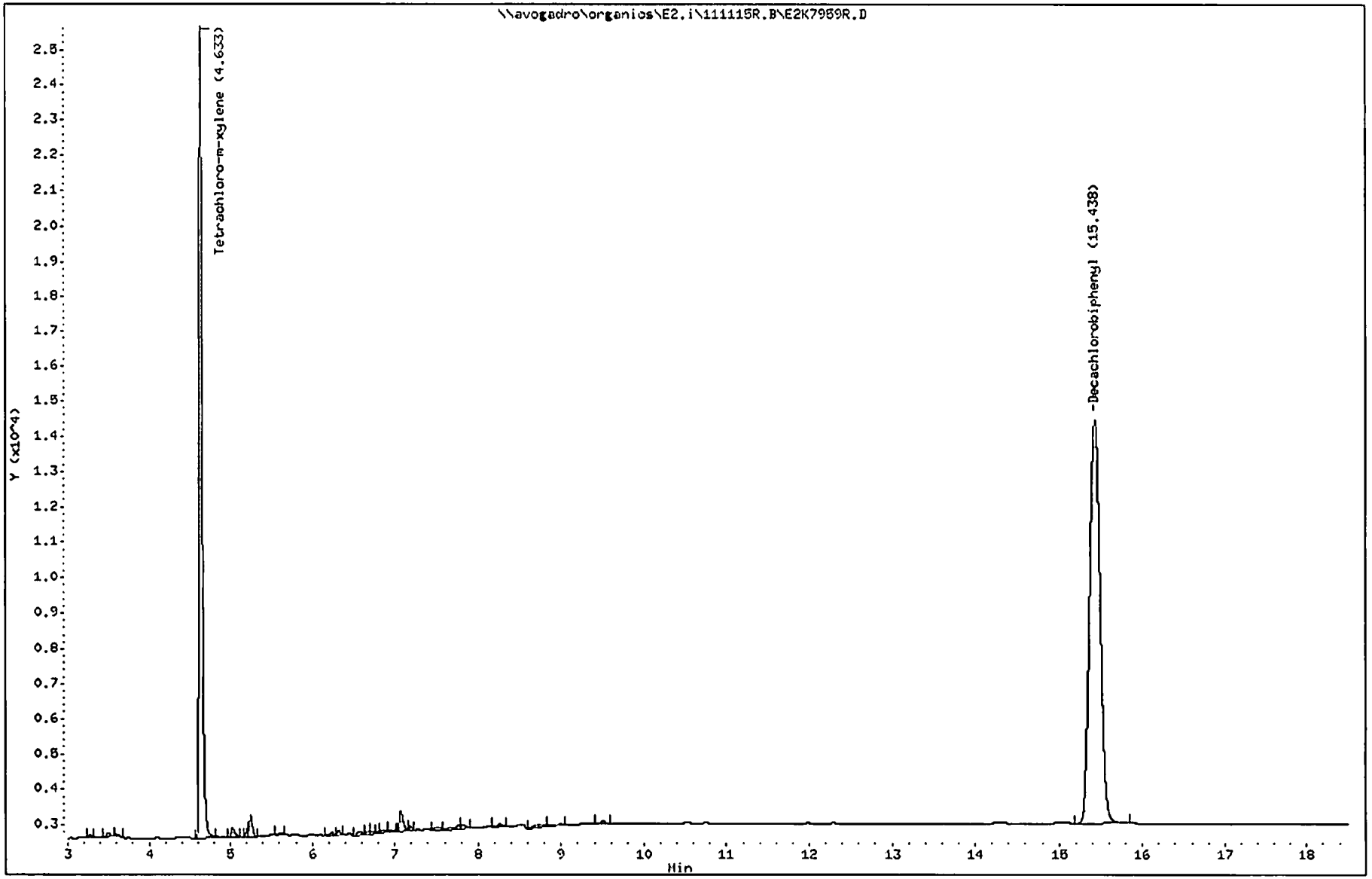
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.633	4.629	0.004	548890	0.04194	0.42		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.437	15.432	0.005	968856	0.05592	0.56		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7959R.D
Date : 16-NOV-2011 07:45
Client ID: H3OW8
Sample Info: K2200-11B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30X0

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-12B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7960F.D/E2K7960R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7960F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7960F.D
Lab Smp Id: K2200-12B Client Smp ID: H30X0
Inj Date : 16-NOV-2011 08:06
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-12B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

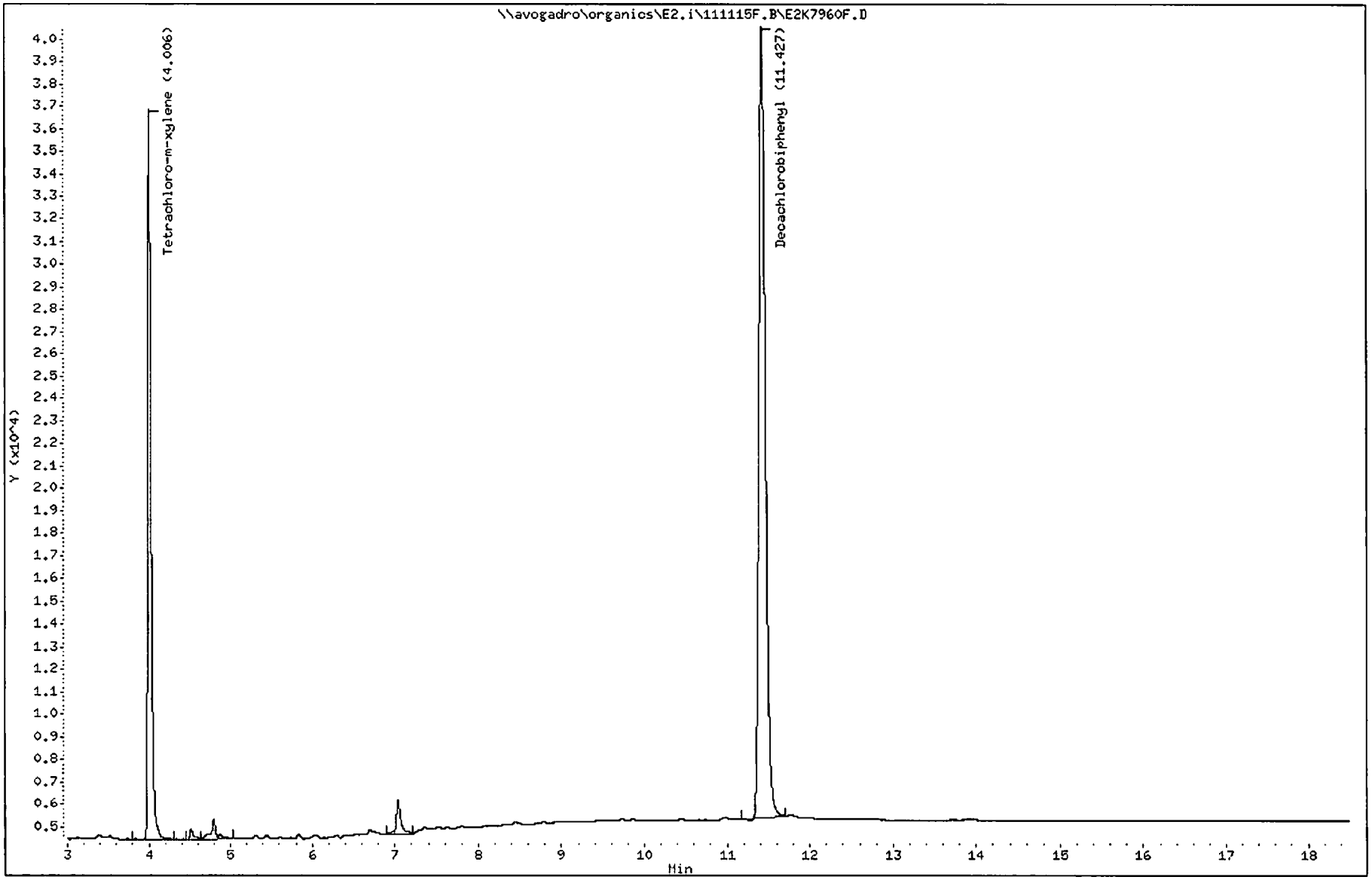
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.006	4.001	0.005	853458	0.04003	0.40		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.427	11.422	0.005	1934326	0.06601	0.66		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7960F.D
Date : 16-NOV-2011 08:06
Client ID: H30X0
Sample Info: K2200-12B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7960R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7960R.D
Lab Smp Id: K2200-12B Client Smp ID: H30X0
Inj Date : 16-NOV-2011 08:06
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-12B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

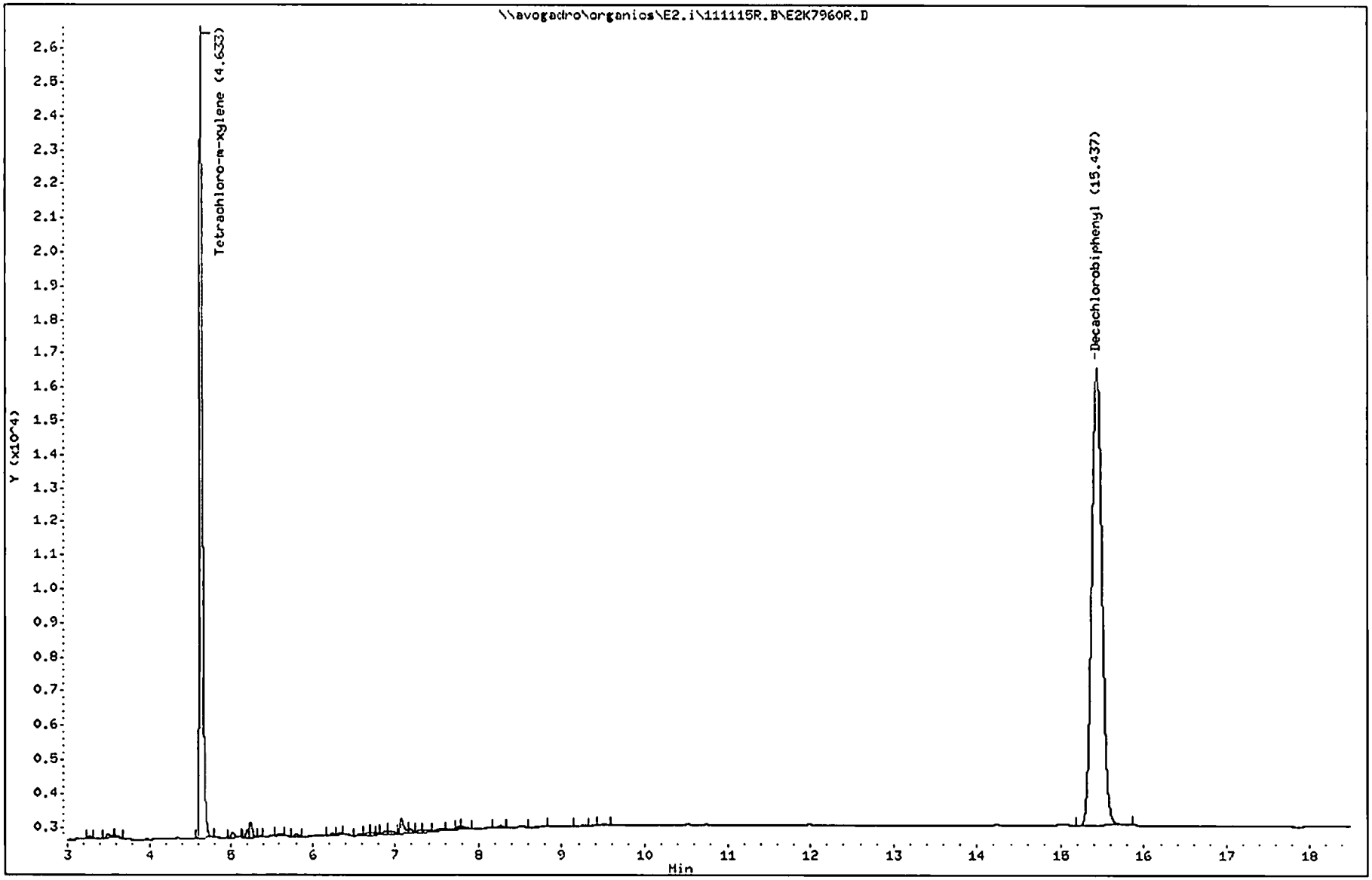
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.633	4.629	0.004	573764	0.04384	0.44		
S 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.437	15.432	0.005	1154886	0.06666	0.67		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7960R.D
Date : 16-NOV-2011 08:06
Client ID: H30X0
Sample Info: K2200-12B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30X1

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-13B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7961F.D/E2K7961R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7961F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7961F.D
Lab Smp Id: K2200-13B Client Smp ID: H30X1
Inj Date : 16-NOV-2011 08:26
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-13B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

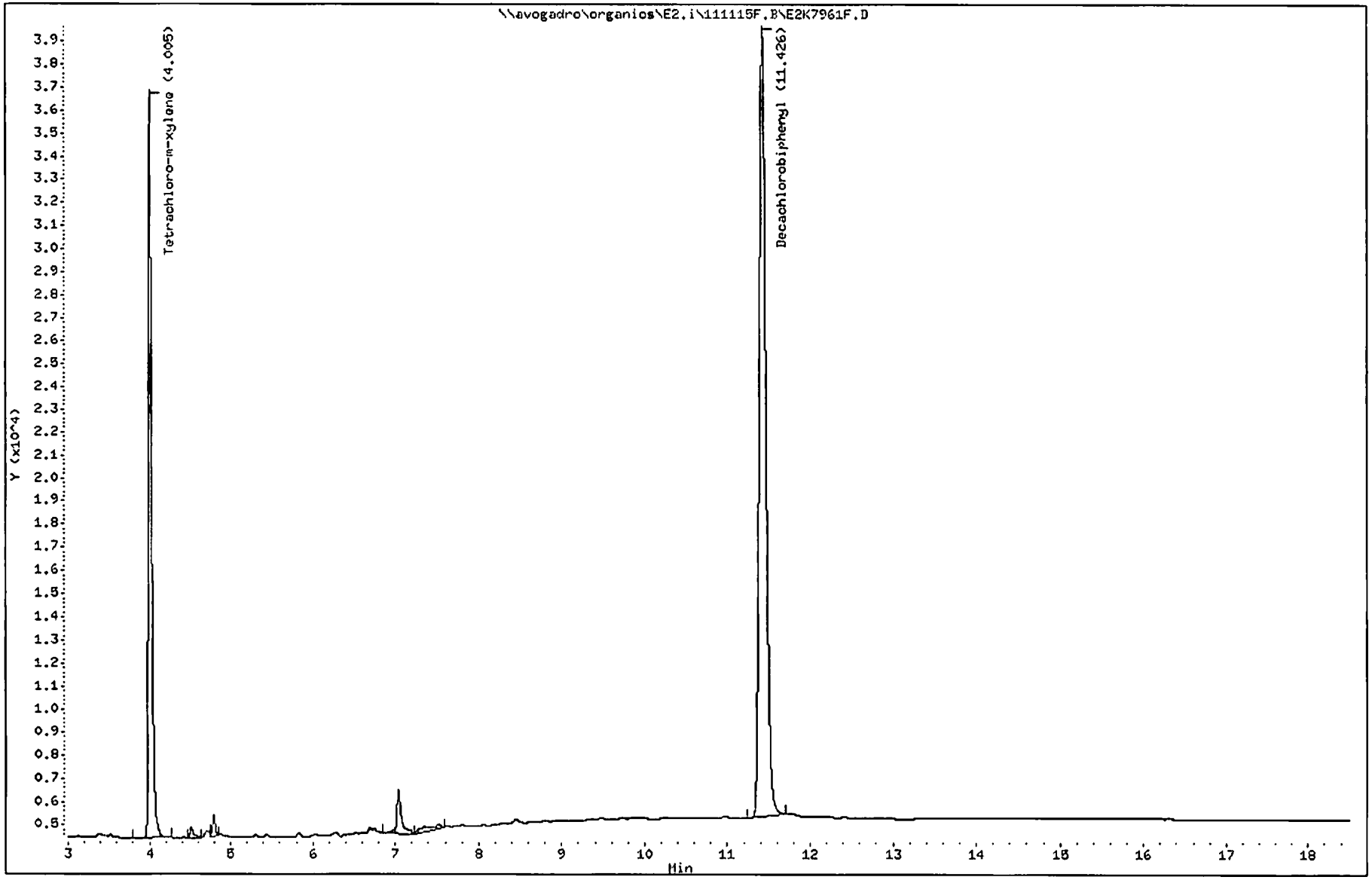
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.004	4.001	0.003	860746	0.04037	0.40		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.425	11.422	0.003	1878347	0.06410	0.64		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7961F.D
Date : 16-NOV-2011 08:26
Client ID: H30X1
Sample Info: K2200-13B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7961R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7961R.D
Lab Smp Id: K2200-13B Client Smp ID: H30X1
Inj Date : 16-NOV-2011 08:26
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-13B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

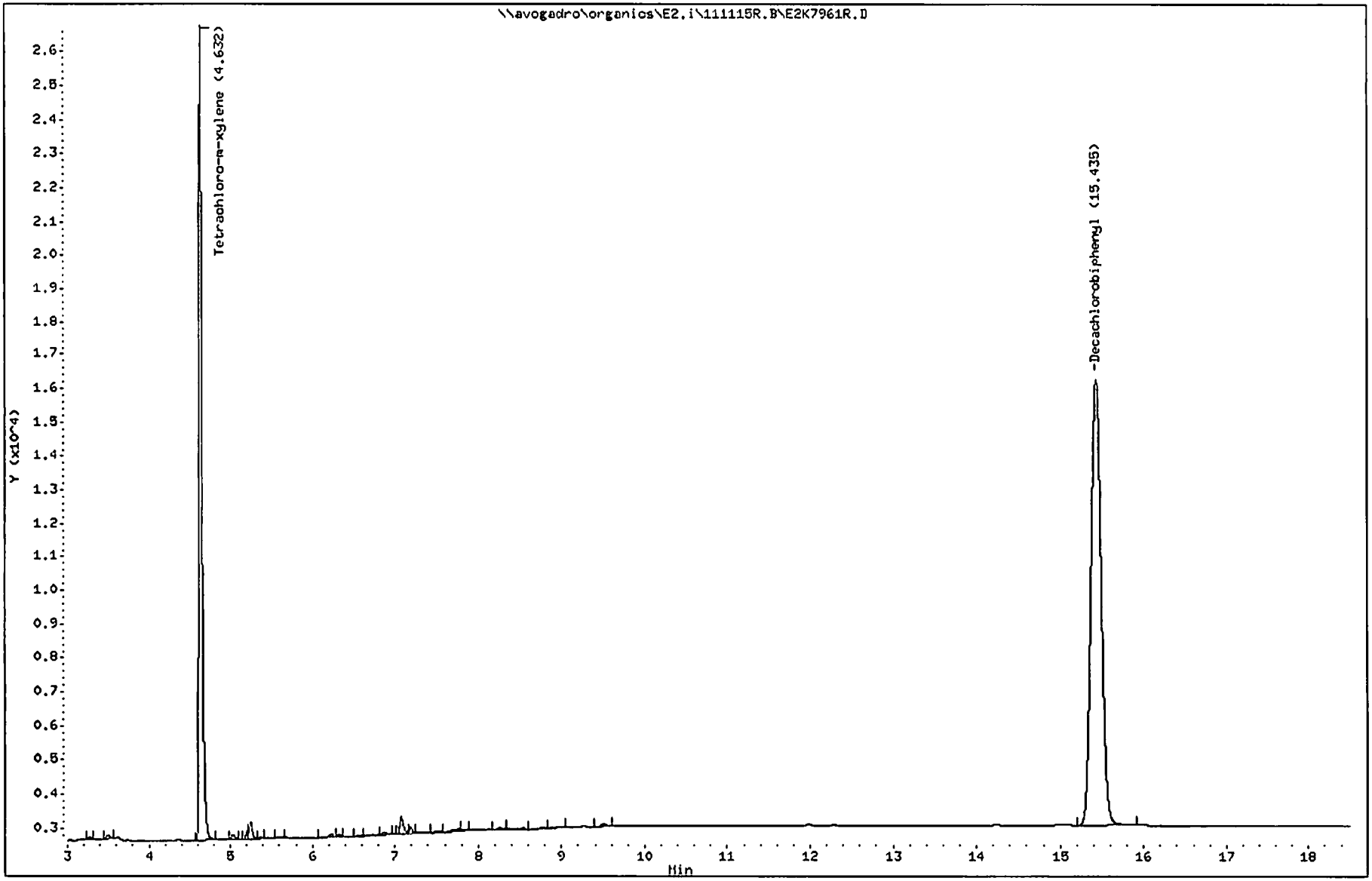
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.631	4.629	0.002	583144	0.04455	0.44		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.435	15.432	0.003	1119642	0.06462	0.65		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7961R.D
Date : 16-NOV-2011 08:26
Client ID: H30X1
Sample Info: K2200-13B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30X3

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-20A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7968F.D/E2K7968R.D

% Moisture: Decanted: (Y/N) Date Received: 10/29/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7968F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7968F.D
Lab Smp Id: K2200-20A Client Smp ID: H30X3
Inj Date : 16-NOV-2011 10:53
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-20A,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	620268	0.02909	0.29			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.424	11.422	0.002	623067	0.02126	0.21			(R)

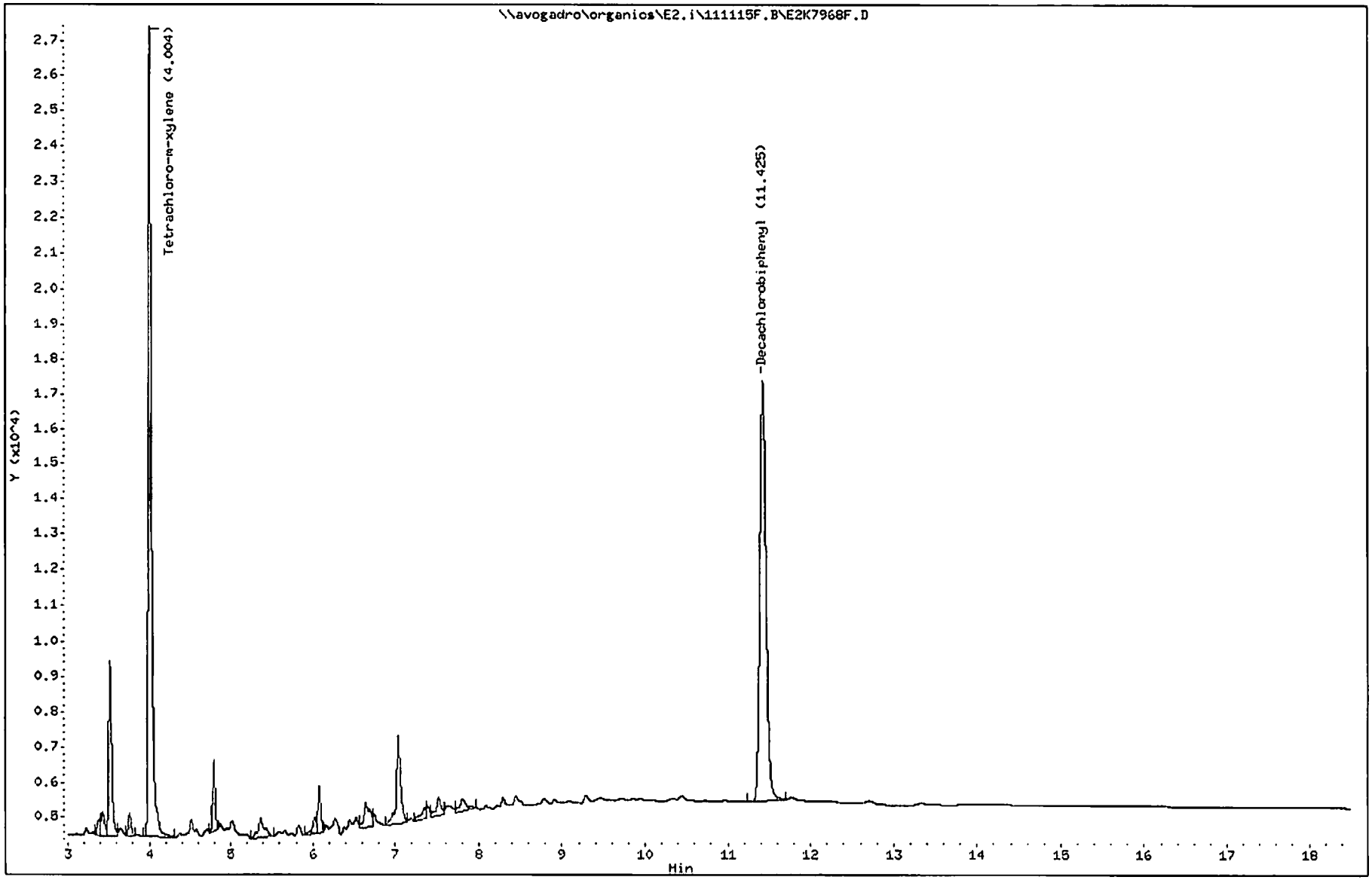
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7968F.D
Date : 16-NOV-2011 10:53
Client ID: H30X3
Sample Info: K2200-20A,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7968R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7968R.D
Lab Smp Id: K2200-20A Client Smp ID: H30X3
Inj Date : 16-NOV-2011 10:53
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-20A,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	407066	0.03110	0.31			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.432	15.432	0.000	349707	0.02018	0.20			(R)

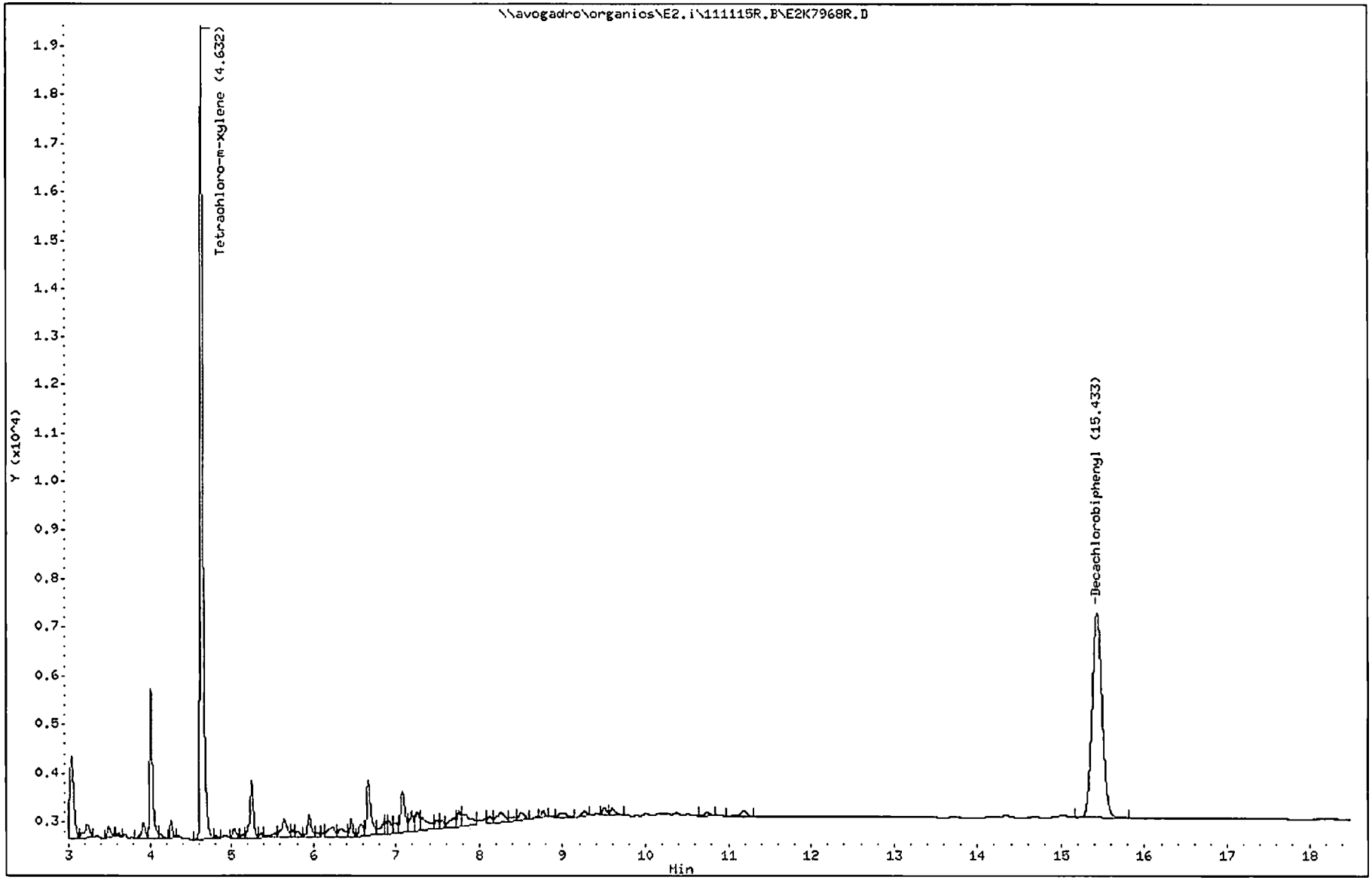
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7968R.D
Date : 16-NOV-2011 10:53
Client ID: H30X3
Sample Info: K2200-20A,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30Y2

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-14B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7962F.D/E2K7962R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7962F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7962F.D
Lab Smp Id: K2200-14B Client Smp ID: H30Y2
Inj Date : 16-NOV-2011 08:47
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-14B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

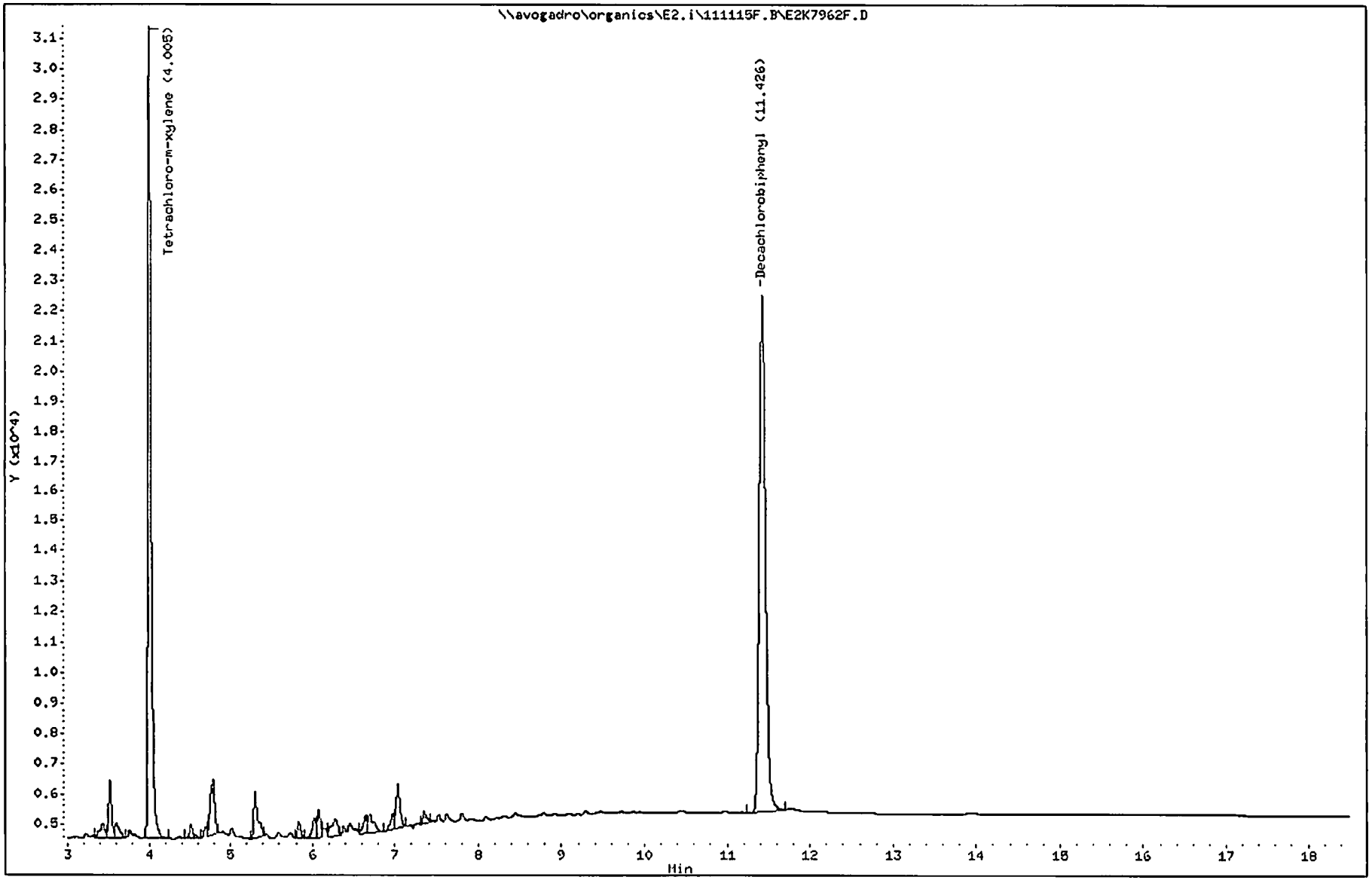
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	701124	0.03288	0.33			
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.425	11.422	0.003	911706	0.03111	0.31			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7962F.D
Date : 16-NOV-2011 08:47
Client ID: H30Y2
Sample Info: K2200-14B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIHS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7962R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7962R.D
Lab Smp Id: K2200-14B Client Smp ID: H30Y2
Inj Date : 16-NOV-2011 08:47
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-14B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

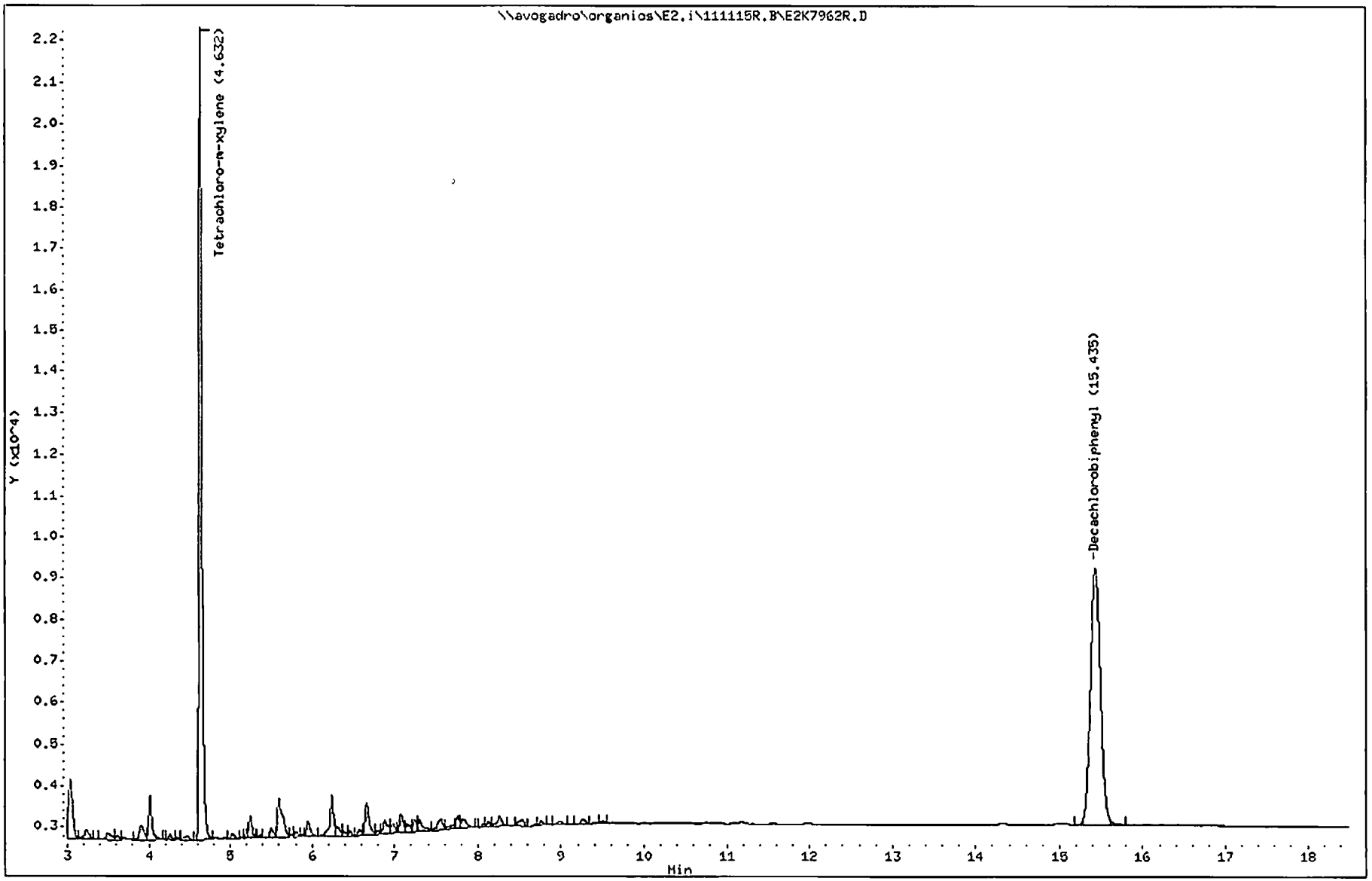
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.632	4.629	0.003	466681	0.03566	0.36			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.434	15.432	0.002	516669	0.02982	0.30			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7962R.D
Date : 16-NOV-2011 08:47
Client ID: H30Y2
Sample Info: K2200-14B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30Y3

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-15B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7963F.D/E2K7963R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7963F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7963F.D
Lab Smp Id: K2200-15B Client Smp ID: H30Y3
Inj Date : 16-NOV-2011 09:08
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-15B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	543535	0.02549	0.25			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.425	11.422	0.003	675258	0.02304	0.23			(R)

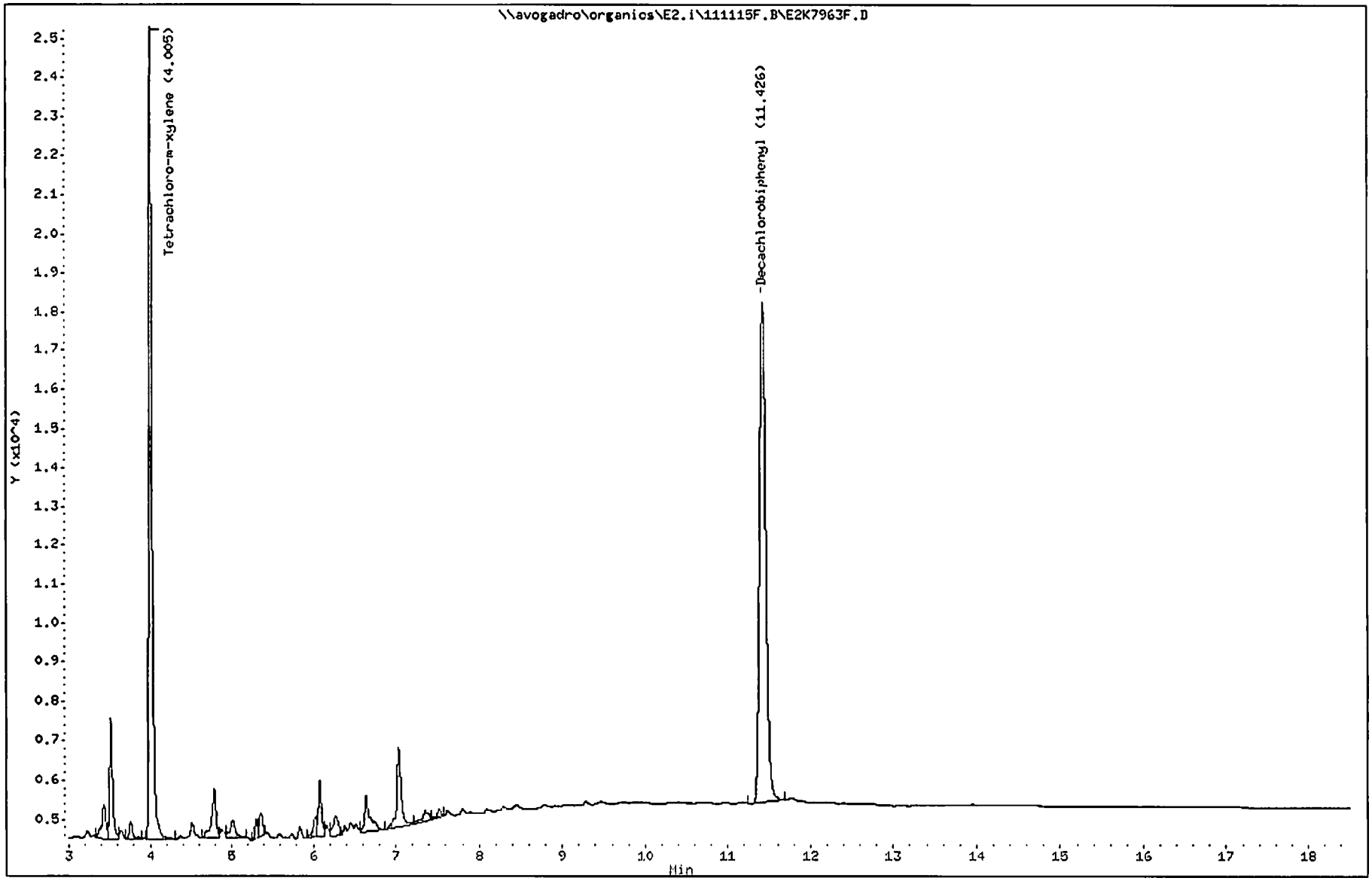
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7963F.D
Date : 16-NOV-2011 09:08
Client ID: H30Y3
Sample Info: K2200-15B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7963R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7963R.D
Lab Smp Id: K2200-15B Client Smp ID: H30Y3
Inj Date : 16-NOV-2011 09:08
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-15B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

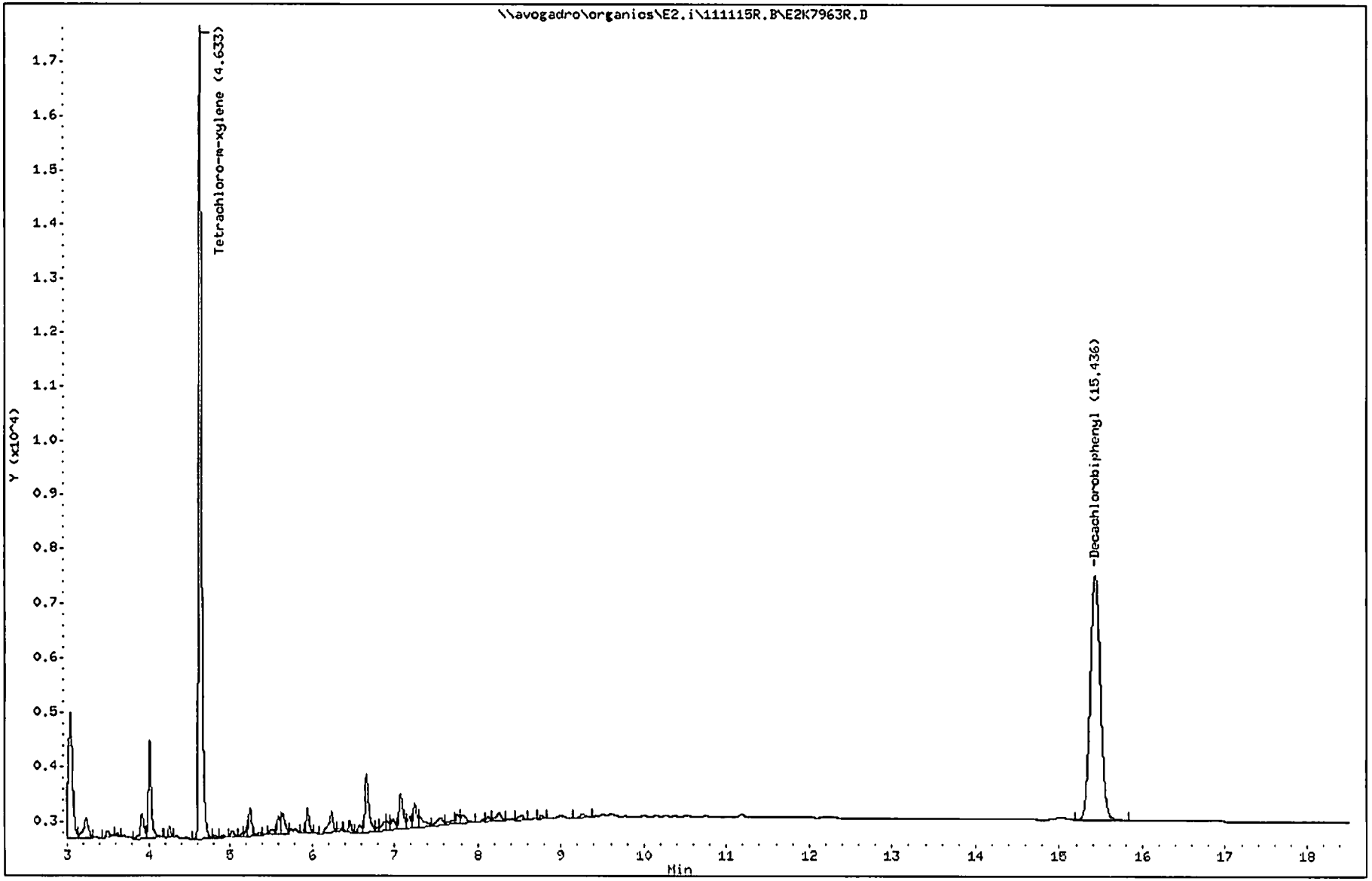
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.633	4.629	0.004	355718	0.02718	0.27			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.436	15.432	0.004	377971	0.02182	0.22			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7963R.D
Date : 16-NOV-2011 09:08
Client ID: H30Y3
Sample Info: K2200-15B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30Y4

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-16B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7964F.D/E2K7964R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7964F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7964F.D
Lab Smp Id: K2200-16B Client Smp ID: H30Y4
Inj Date : 16-NOV-2011 09:29
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-16B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

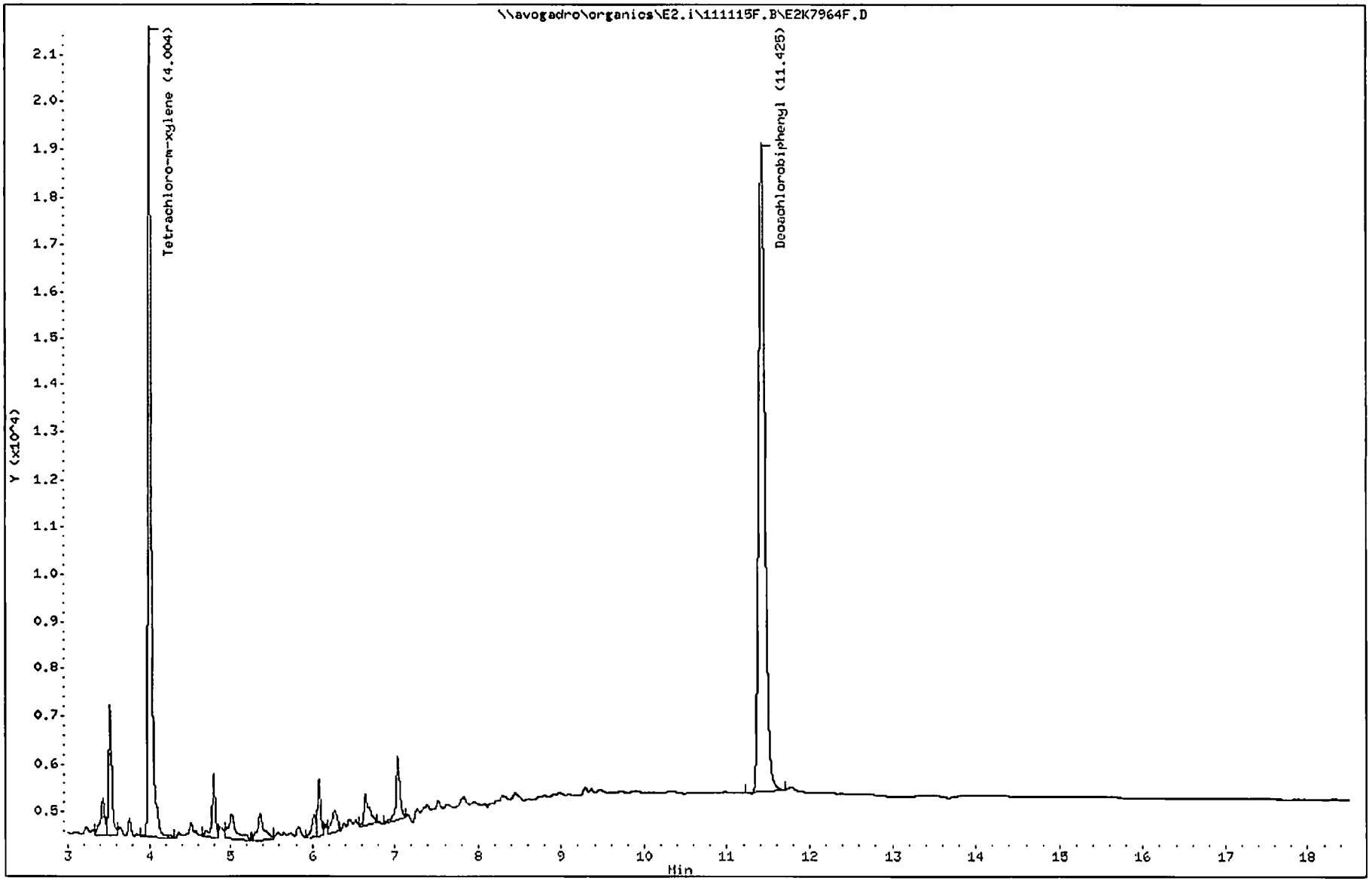
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	463466	0.02174	0.22			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.424	11.422	0.002	725842	0.02477	0.25			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7964F.D
Date : 16-NOV-2011 09:29
Client ID: H30Y4
Sample Info: K2200-16B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7964R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7964R.D
Lab Smp Id: K2200-16B Client Smp ID: H30Y4
Inj Date : 16-NOV-2011 09:29
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-16B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

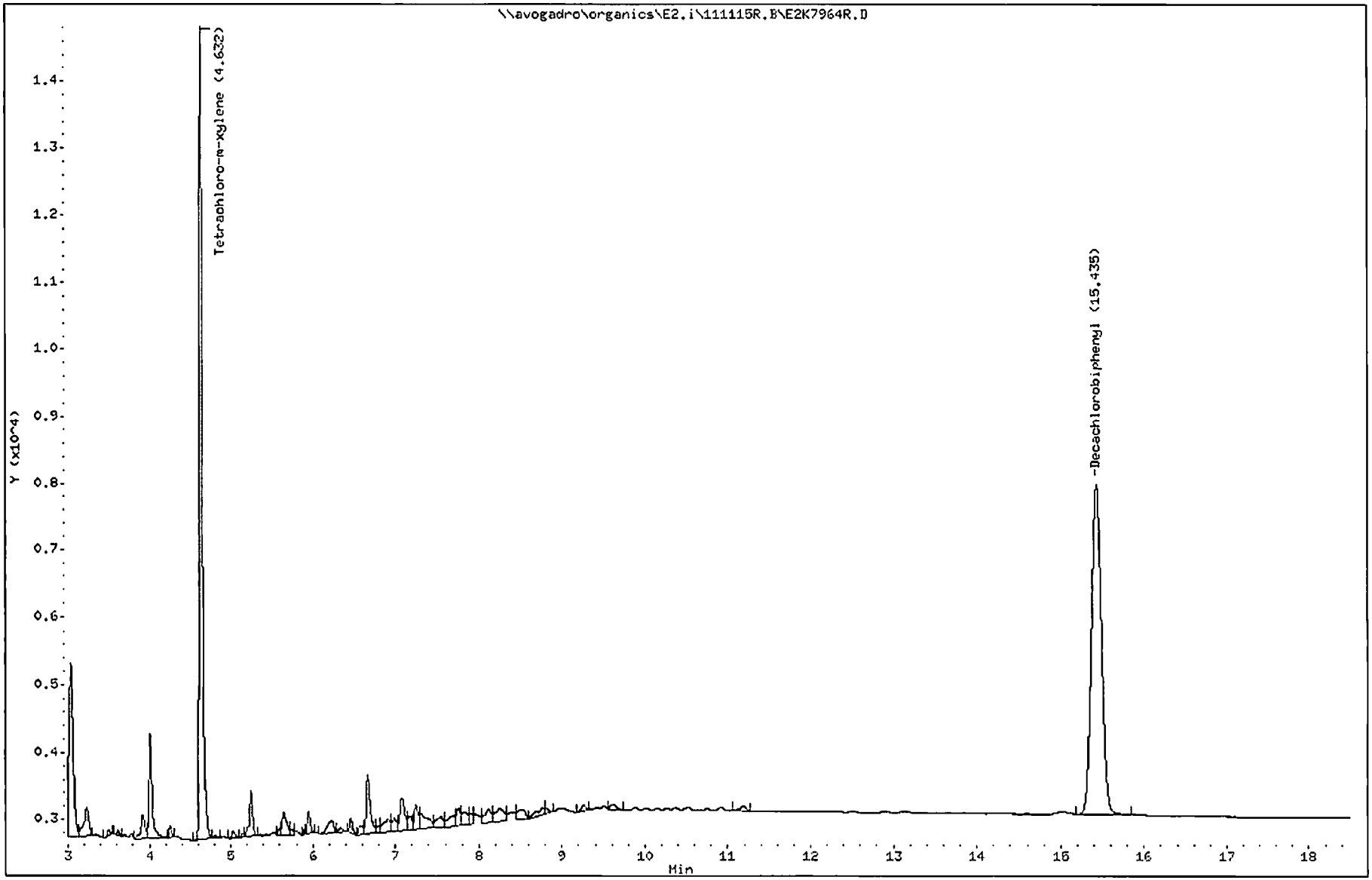
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.632	4.629	0.003	296226	0.02263	0.23			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.434	15.432	0.002	408961	0.02360	0.24			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7964R.D
Date : 16-NOV-2011 09:29
Client ID: H30Y4
Sample Info: K2200-16B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30Y5

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-17B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7965F.D/E2K7965R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7965F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7965F.D
Lab Smp Id: K2200-17B Client Smp ID: H30Y5
Inj Date : 16-NOV-2011 09:50
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-17B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

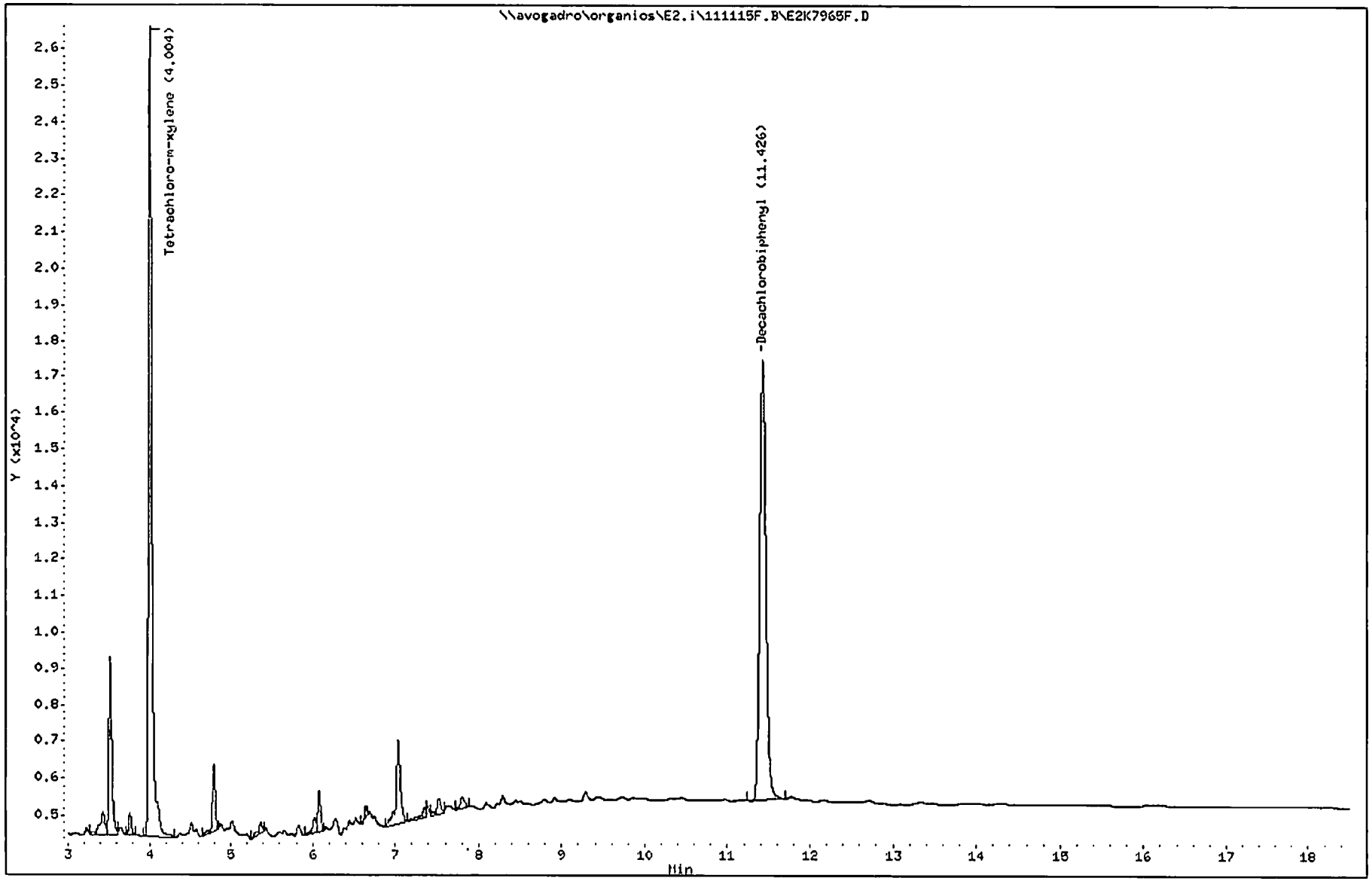
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	613387	0.02877	0.29			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	634989	0.02167	0.22			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7965F.D
Date : 16-NOV-2011 09:50
Client ID: H30Y5
Sample Info: K2200-17B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7965R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7965R.D
Lab Smp Id: K2200-17B Client Smp ID: H30Y5
Inj Date : 16-NOV-2011 09:50
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-17B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

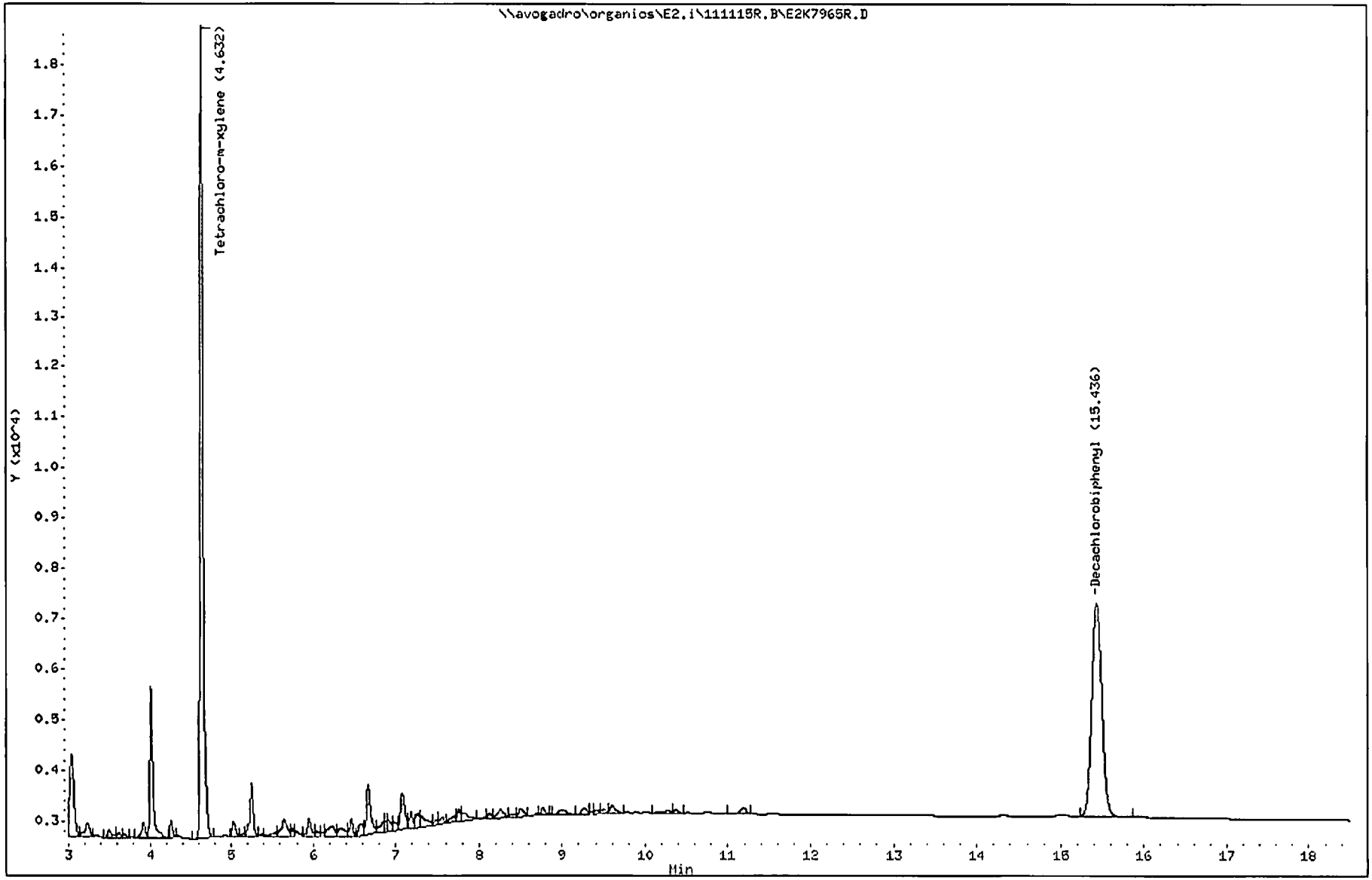
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.632	4.629	0.003	394711	0.03016	0.30			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.435	15.432	0.003	356065	0.02055	0.20			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7965R.D
Date : 16-NOV-2011 09:50
Client ID: H30Y5
Sample Info: K2200-17B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30Y6

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-18B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7966F.D/E2K7966R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7966F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7966F.D
Lab Smp Id: K2200-18B Client Smp ID: H30Y6
Inj Date : 16-NOV-2011 10:11
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-18B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

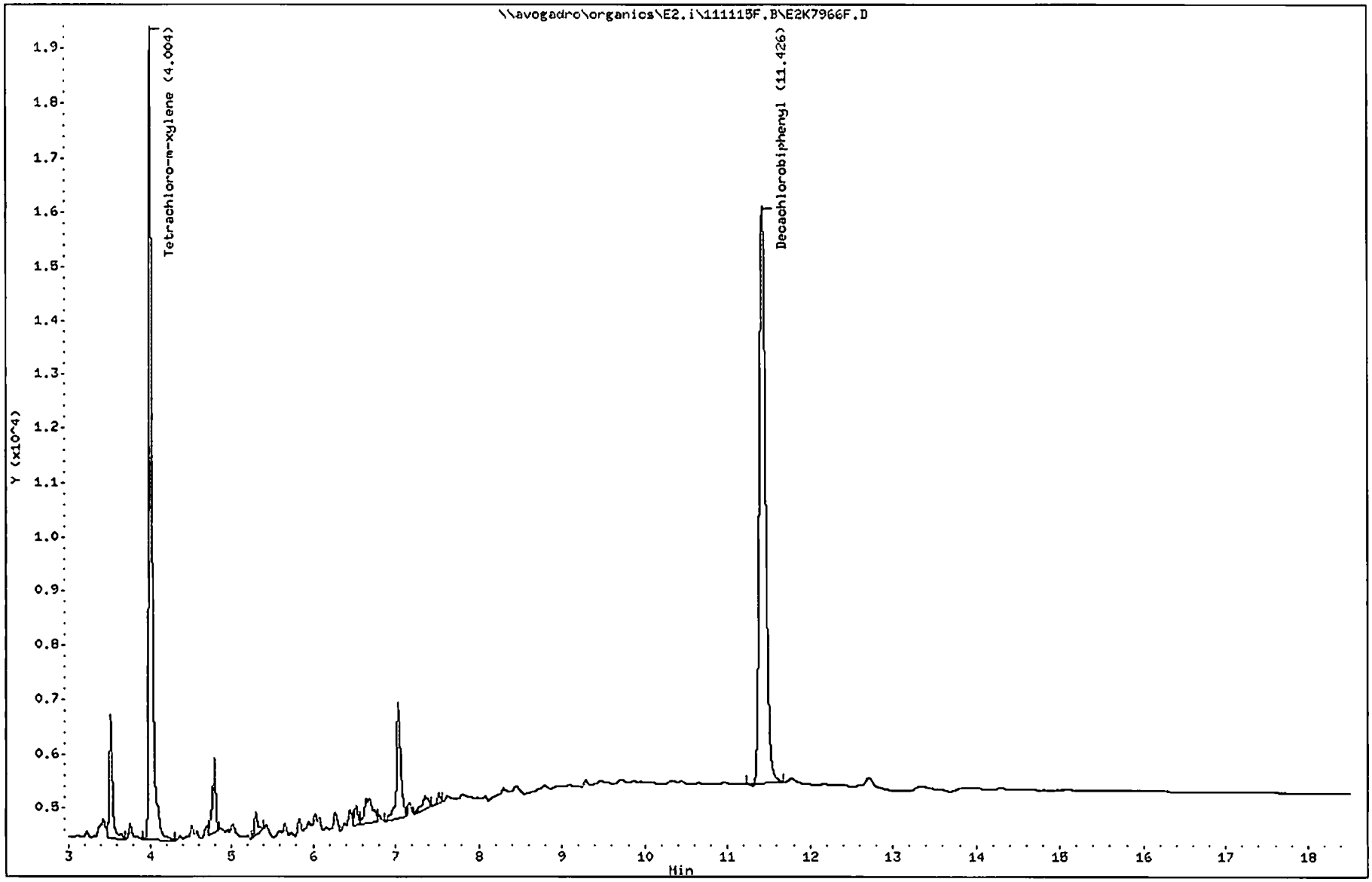
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	408818	0.01917	0.19			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.425	11.422	0.003	556090	0.01898	0.19			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7966F.D
Date : 16-NOV-2011 10:11
Client ID: H30Y6
Sample Info: K2200-18B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7966R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7966R.D
Lab Smp Id: K2200-18B Client Smp ID: H30Y6
Inj Date : 16-NOV-2011 10:11
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-18B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	257987	0.01971	0.20			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.434	15.432	0.002	312236	0.01802	0.18			(R)

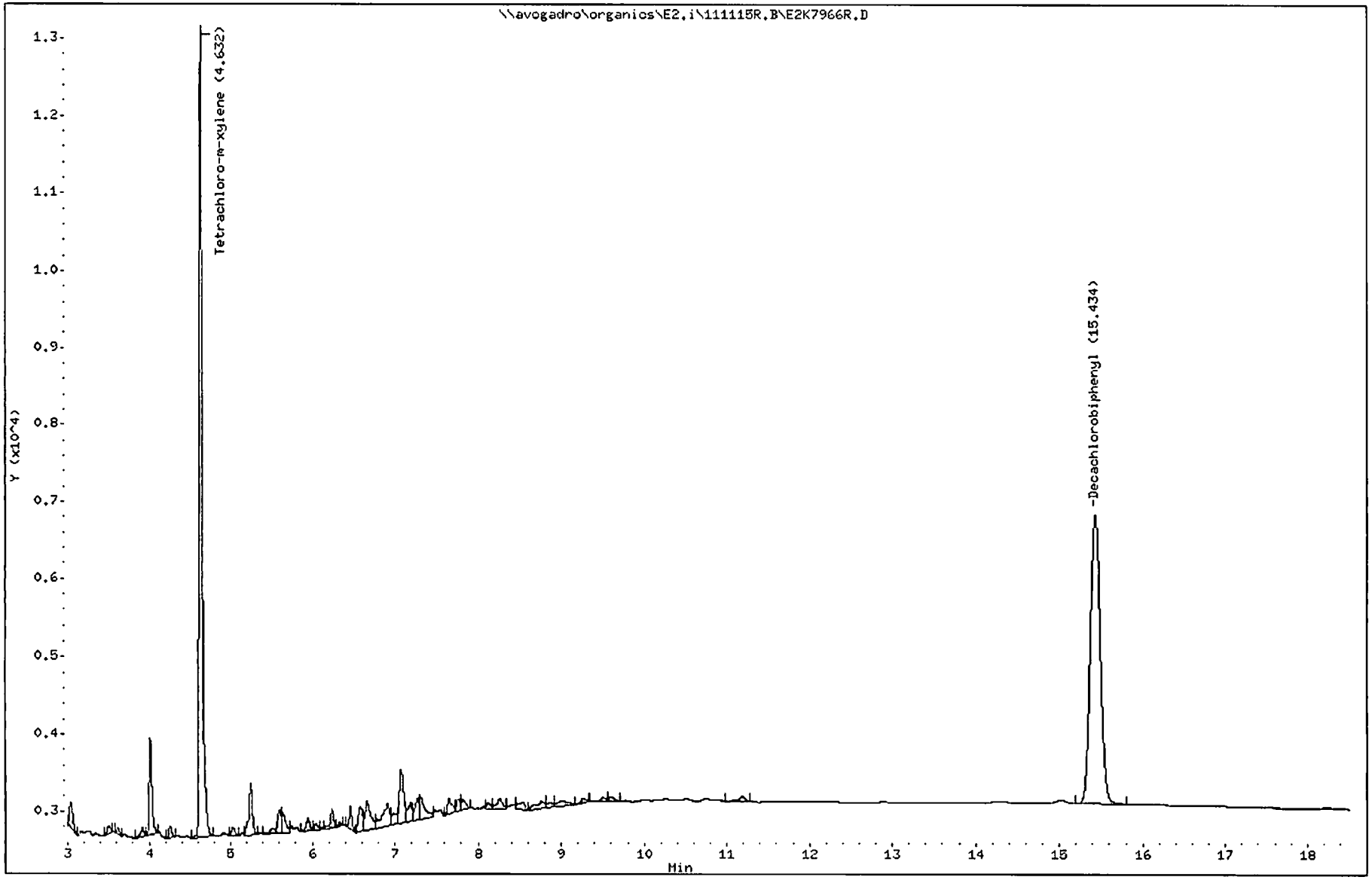
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7966R.D
Date : 16-NOV-2011 10:11
Client ID: H30Y6
Sample Info: K2200-18B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30Z6

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-19B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7967F.D/E2K7967R.D

% Moisture: Decanted: (Y/N) Date Received: 10/28/2011

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7967F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7967F.D
Lab Smp Id: K2200-19B Client Smp ID: H30Z6
Inj Date : 16-NOV-2011 10:32
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-19B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

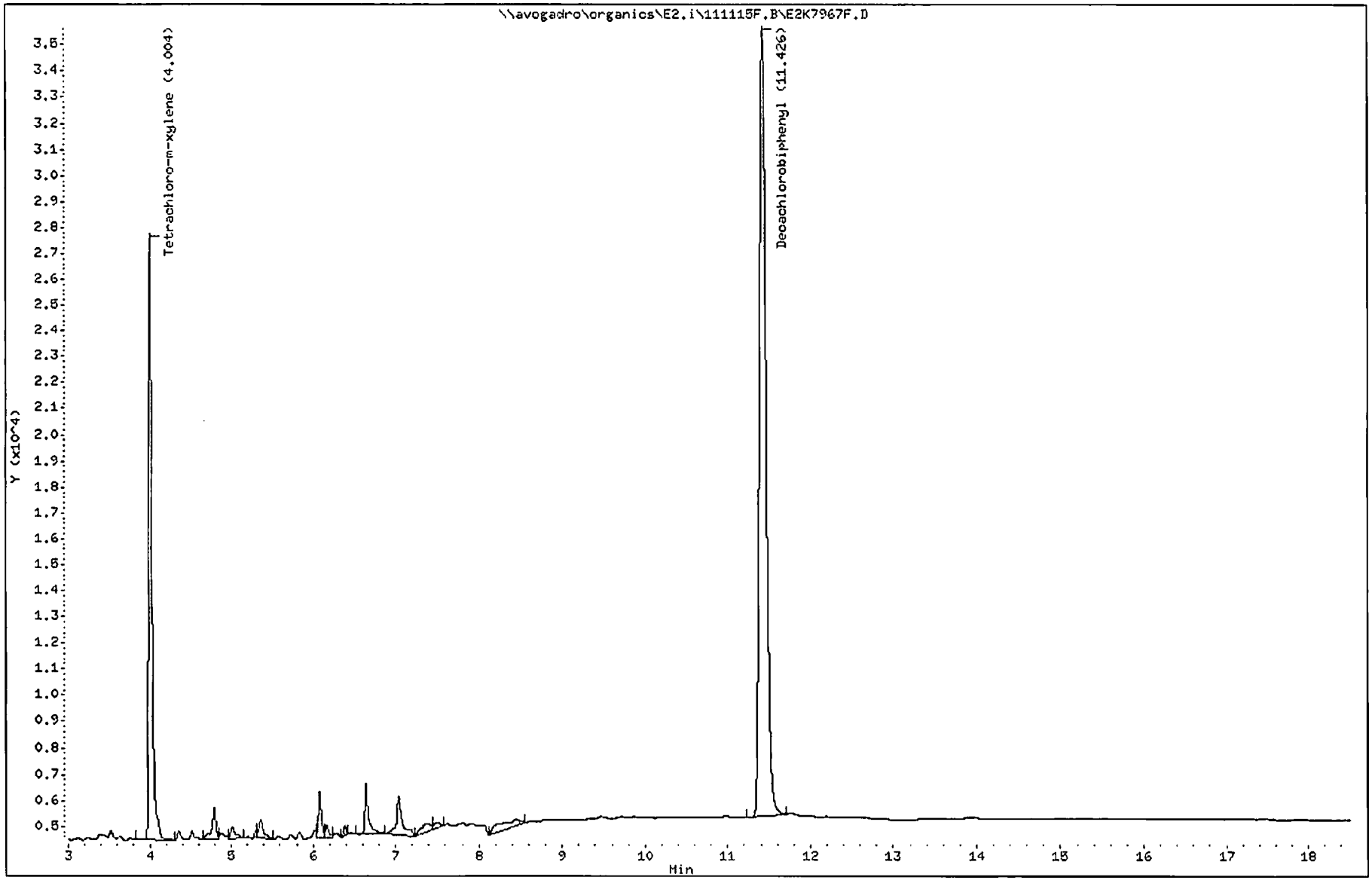
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.003	4.001	0.002	636522	0.02985	0.30		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.426	11.422	0.004	1659288	0.05662	0.57		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7967F.D
Date : 16-NOV-2011 10:32
Client ID: H3026
Sample Info: K2200-19B,,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7967R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7967R.D
Lab Smp Id: K2200-19B Client Smp ID: H30Z6
Inj Date : 16-NOV-2011 10:32
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-19B,,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

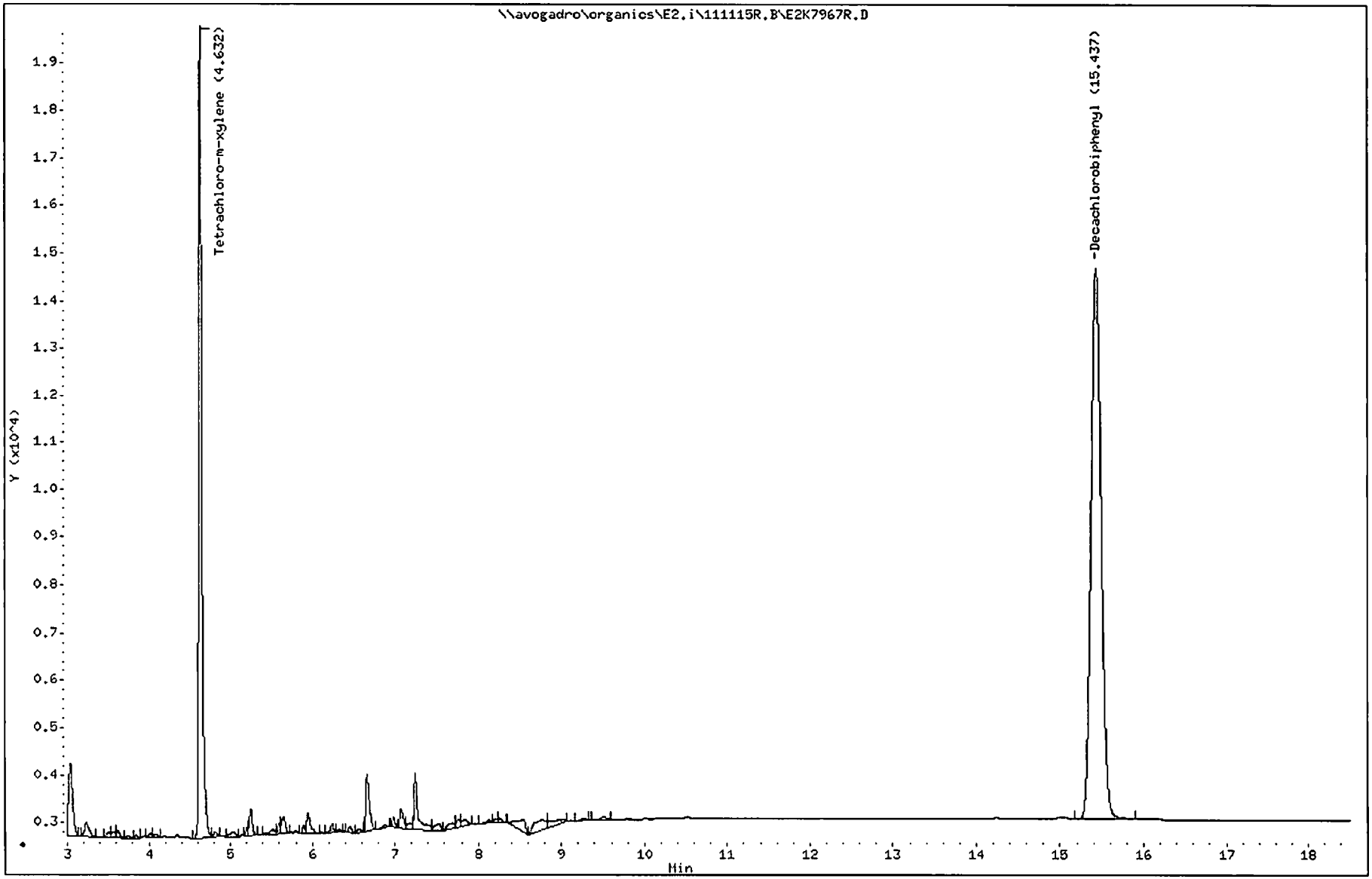
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.631	4.629	0.002	422499	0.03228	0.32		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.436	15.432	0.004	984969	0.05685	0.57		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7967R.D
Date : 16-NOV-2011 10:32
Client ID: H3OZ6
Sample Info: K2200-19B,,62638,somaro,sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.32



6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: E2

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 (1): 11/13/2011 11/14/2011

COMPOUND	PEAK+	RT OF STANDARDS					$\overline{RT}$	RT WINDOW **	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	5.607	5.608	5.608	5.607	5.607	5.607	5.537	5.677
	2	5.785	5.785	5.785	5.784	5.783	5.785	5.715	5.855
	3	6.041	6.041	6.041	6.041	6.040	6.041	5.971	6.111
AR1260	1	7.803	7.802	7.802	7.800	7.800	7.801	7.731	7.871
	2	8.097	8.097	8.097	8.096	8.096	8.096	8.026	8.166
	3	8.508	8.507	8.508	8.506	8.506	8.507	8.437	8.577
AR1242	1	5.244	5.243	5.242	5.240	5.241	5.242	5.172	5.312
	2	5.863	5.862	5.862	5.860	5.861	5.861	5.791	5.931
	3	6.419	6.418	6.417	6.415	6.415	6.417	6.347	6.487
AR1248	1	6.285	6.284	6.283	6.283	6.282	6.283	6.213	6.353
	2	6.381	6.379	6.379	6.378	6.378	6.379	6.309	6.449
	3	6.765	6.764	6.763	6.764	6.764	6.764	6.694	6.834
AR1254	1	6.969	6.969	6.967	6.967	6.965	6.967	6.897	7.037
	2	7.351	7.350	7.350	7.349	7.348	7.350	7.280	7.420
	3	7.619	7.619	7.618	7.617	7.616	7.618	7.548	7.688
AR1268	1	9.410	9.429	9.426	9.411	9.409	9.417	9.347	9.487
	2	9.715	9.735	9.732	9.717	9.715	9.723	9.653	9.793
	3	10.966	10.991	10.986	10.968	10.966	10.975	10.905	11.045
TCX		4.003	4.004	4.003	4.003	4.002	4.003	3.953	4.053
DCB		11.424	11.422	11.423	11.422	11.423	11.423	11.323	11.523

* At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; 0.05 minutes for tetrachloro-m-xylene; ± 0.10 minutes for decachlorobiphenyl.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: E2

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 (1): 11/13/2011 11/14/2011

COMPOUND	PEAK*	RT OF STANDARDS					$\overline{RT}$	RT WINDOW **	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	6.254	6.254	6.254	6.252	6.251	6.253	6.183	6.323
	2	6.505	6.506	6.506	6.505	6.505	6.505	6.435	6.575
	3	6.661	6.661	6.661	6.659	6.659	6.660	6.590	6.730
AR1260	1	9.260	9.260	9.259	9.259	9.258	9.259	9.189	9.329
	2	9.405	9.404	9.403	9.402	9.401	9.403	9.333	9.473
	3	9.890	9.889	9.888	9.888	9.887	9.888	9.818	9.958
AR1242	1	5.955	5.954	5.953	5.951	5.951	5.953	5.883	6.023
	2	6.256	6.255	6.255	6.253	6.253	6.254	6.184	6.324
	3	6.774	6.773	6.773	6.772	6.772	6.773	6.703	6.843
AR1248	1	7.154	7.153	7.152	7.151	7.151	7.152	7.082	7.222
	2	7.275	7.275	7.274	7.274	7.273	7.274	7.204	7.344
	3	7.460	7.460	7.459	7.458	7.458	7.459	7.389	7.529
AR1254	1	7.758	7.757	7.756	7.756	7.754	7.756	7.686	7.826
	2	8.261	8.261	8.260	8.260	8.258	8.260	8.190	8.330
	3	8.535	8.534	8.534	8.533	8.532	8.533	8.463	8.603
AR1268	1	11.293	11.305	11.303	11.294	11.291	11.297	11.227	11.367
	2	11.985	11.999	11.997	11.986	11.984	11.990	11.920	12.060
	3	14.232	14.250	14.247	14.234	14.231	14.239	14.169	14.309
TCX		4.631	4.632	4.630	4.630	4.629	4.631	4.581	4.681
DCB		15.433	15.432	15.431	15.429	15.432	15.432	15.332	15.532

* At least three peaks for each column are required for identification of Aroclors.

**Retention Time windows are ± 0.07 minutes for each Aroclor peak; 0.05 minutes for tetrachloro-m-xylene; ± 0.10 minutes for decachlorobiphenyl.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLOR INITIAL CALIBRATION (MULTIPOINT)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: E2 Date(s) Analyzed: 11/13/2011 11/14/2011

GC Column: CLPPest ID: 0.53 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

COMPOUND	PEAK [1]	CALIBRATION FACTORS (CFs)					% RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	2446780	2300980	2086243	1940871	1794181	12.5
	2	918340	866295	788068	734381	676313	12.2
	3	1647290	1538190	1412800	1310225	1209493	12.3
AR1260	1	2981110	2718990	2452925	2238681	2054126	14.9
	2	2155480	2003210	1904025	1755094	1653789	10.5
	3	2406370	2252450	2124698	2001458	1896405	9.4
AR1242	1	563230	551950	555078	534363	504996	4.3
	2	437680	420350	435895	431224	418656	2.1
	3	761550	732515	748513	726114	694062	3.5
AR1248	1	1237240	1186565	1083995	1019225	932498	11.3
	2	1082360	1065185	999010	979939	936844	6.0
	3	2263370	2170135	2260630	2129938	1720614	10.7
AR1254	1	2713870	2584745	2374600	2182394	1984397	12.5
	2	1805640	1751000	1654063	1558004	1451686	8.7
	3	1506980	1441435	1345845	1259808	1157012	10.4
AR1268	1	4119990	3884105	4092730	3915163	4245793	3.7
	2	3164650	2906945	3012755	2894804	2724931	5.5
	3	9926540	9289850	9420808	8854800	8328982	6.6
TCX		21251400	21611000	21393550	21206300	21149900	0.9
DCB		32376400	31865100	29165900	27449250	25668813	9.8

[1]At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6P - FORM VI ARO-2

AROCLOR INITIAL CALIBRATION (MULTIPOINT)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: E2 Date(s) Analyzed: 11/13/2011 11/14/2011

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

COMPOUND	PEAK [1]	CALIBRATION FACTORS (CFs)					% RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	332070	322780	314883	304054	297851	4.4
	2	1277930	1260300	1214998	1192946	1156523	4.0
	3	594230	571455	546550	527516	509361	6.2
AR1260	1	1295760	1277325	1233170	1227085	1216584	2.8
	2	834070	803820	764695	734066	706188	6.7
	3	827330	837960	803658	790365	785267	2.8
AR1242	1	725520	684230	675223	634165	584466	8.1
	2	266310	256900	261130	256896	248408	2.6
	3	283330	267075	285275	296940	297922	4.4
AR1248	1	812300	813265	781845	770951	731722	4.3
	2	628580	638150	622640	625723	607821	1.8
	3	307580	312715	297553	300006	294908	2.4
AR1254	1	833980	820595	771838	727148	673524	8.7
	2	1118610	1148765	1130330	1116908	1081665	2.2
	3	1279890	1302200	1272468	1250619	833374	16.7
AR1268	1	1946710	1926870	2087680	2113265	2100668	4.4
	2	1732160	1694945	1783038	1772103	1734463	2.0
	3	5437540	5330290	5710680	5602678	5429877	2.8
TCX		12045800	12718800	12969250	13531275	14176813	6.2
DCB		17996900	18111700	17068025	16846488	16603131	4.0

[1]At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6Q - FORM VI ARO-3

AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: E2 Date(s) Analyzed: 11/13/2011 11/14/2011

GC Column: CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK [1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	0.4	1	3.37	3.30	3.44	228420
		2	3.84	3.77	3.91	87663
		3	4.23	4.16	4.30	262980
		4				
		5				
Aroclor-1232	0.4	1	4.23	4.16	4.30	180390
		2	4.48	4.41	4.55	610315
		3	4.96	4.89	5.03	508970
		4				
		5				
Aroclor-1262	0.4	1	8.91	8.84	8.98	3005913
		2	9.35	9.28	9.42	2023213
		3	9.87	9.80	9.94	495783
		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: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Instrument ID: E2 Date(s) Analyzed: 11/13/2011 11/14/2011

GC Column: CLPPestII ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK [1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	0.4	1	3.97	3.90	4.04	197760
		2	4.49	4.42	4.56	72905
		3	5.06	4.99	5.13	168445
		4				
		5				
Aroclor-1232	0.4	1	5.06	4.99	5.13	114003
		2	5.28	5.21	5.35	94723
		3	5.37	5.30	5.44	391043
		4				
		5				
Aroclor-1262	0.4	1	11.18	11.11	11.25	1268240
		2	12.36	12.29	12.43	255425
		3	12.94	12.87	13.01	611663
		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: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 11/13/2011 11/14/2011

EPA Sample No. (AR####3##): AR16603KG Date Analyzed: 11/16/2011

Lab Sample ID: AR16603KG Time Analyzed: 2:10

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	5.609	5.537	5.677	2113811	2168400	2.6
	2	5.786	5.715	5.855	796679.375	819210	2.8
	3	6.042	5.971	6.111	1423599.5	1435937.5	0.9
AR1260	1	7.804	7.731	7.871	2489166.375	2157620	-13.3
	2	8.099	8.026	8.166	1894319.5	1740650	-8.1
	3	8.509	8.437	8.577	2136276	1982897.5	-7.2
TCX		4.004	3.953	4.053	21322430	21897950	2.7
DCB		11.428	11.323	11.523	29305092.5	27331175	-6.7

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 11/13/2011 11/14/2011

EPA Sample No. (AR####3##): AR16603KG Date Analyzed: 11/16/2011

Lab Sample ID: AR16603KG Time Analyzed: 2:10

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	6.255	6.183	6.323	314327.5	315865	0.5
	2	6.508	6.435	6.575	1220539.25	1242292.5	1.8
	3	6.662	6.590	6.730	549822.5	544410	-1.0
AR1260	1	9.263	9.189	9.329	1249984.875	1086140	-13.1
	2	9.407	9.333	9.473	768567.875	661787.5	-13.9
	3	9.892	9.818	9.958	808915.875	702692.5	-13.1
TCX		4.633	4.581	4.681	13088387.5	13013850	-0.6
DCB		15.438	15.332	15.532	17325248.75	15388975	-11.2

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 11/13/2011 11/14/2011

EPA Sample No. (AR####3##): AR16603KH Date Analyzed: 11/16/2011

Lab Sample ID: AR16603KH Time Analyzed: 12:58

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	5.609	5.537	5.677	2113811	2167212.5	2.5
	2	5.786	5.715	5.855	796679.375	823712.5	3.4
	3	6.043	5.971	6.111	1423599.5	1413782.5	-0.7
AR1260	1	7.804	7.731	7.871	2489166.375	2473695	-0.6
	2	8.099	8.026	8.166	1894319.5	1840785	-2.8
	3	8.510	8.437	8.577	2136276	2151542.5	0.7
TCX		4.005	3.953	4.053	21322430	22275100	4.5
DCB		11.426	11.323	11.523	29305092.5	29658025	1.2

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 11/13/2011 11/14/2011

EPA Sample No. (AR####3##): AR16603KH Date Analyzed: 11/16/2011

Lab Sample ID: AR16603KH Time Analyzed: 12:58

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION RT	RT WINDOW FROM	RT WINDOW TO	$\overline{CF}$	CF	%D
AR1016	1	6.254	6.183	6.323	314327.5	327512.5	4.2
	2	6.507	6.435	6.575	1220539.25	1256417.5	2.9
	3	6.662	6.590	6.730	549822.5	563322.5	2.5
AR1260	1	9.262	9.189	9.329	1249984.875	1241250	-0.7
	2	9.406	9.333	9.473	768567.875	763057.5	-0.7
	3	9.891	9.818	9.958	808915.875	802347.5	-0.8
TCX		4.632	4.581	4.681	13088387.5	13309300	1.7
DCB		15.434	15.332	15.532	17325248.75	17272975	-0.3

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

SOM01.2 (6/2007)

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 11/13/2011 11/14/2011

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.003 DCB: 11.423

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR12213K2	E2K7775F.D	11/13/2011	17:59	4.004	11.427
02	AR12323K2	E2K7776F.D	11/13/2011	18:20	4.003	11.427
03	AR12421K2	E2K7777F.D	11/13/2011	18:41	4.004	11.427
04	AR12422K2	E2K7779F.D	11/13/2011	19:23	4.003	11.427
05	AR12423K2	E2K7780F.D	11/13/2011	19:44	4.004	11.427
06	AR12424K2	E2K7781F.D	11/13/2011	20:05	4.002	11.425
07	AR12425K2	E2K7782F.D	11/13/2011	20:26	4.003	11.426
08	AR12481K2	E2K7783F.D	11/13/2011	20:47	4.004	11.426
09	AR12482K2	E2K7785F.D	11/13/2011	21:29	4.003	11.426
10	AR12483K2	E2K7786F.D	11/13/2011	21:50	4.003	11.425
11	AR12484K2	E2K7787F.D	11/13/2011	22:11	4.002	11.426
12	AR12485K2	E2K7788F.D	11/13/2011	22:32	4.002	11.426
13	AR12541K2	E2K7789F.D	11/13/2011	22:52	4.003	11.425
14	AR12542K2	E2K7791F.D	11/13/2011	23:34	4.003	11.427
15	AR12543K2	E2K7792F.D	11/13/2011	23:56	4.003	11.427
16	AR12544K2	E2K7793F.D	11/14/2011	0:16	4.002	11.426
17	AR12545K2	E2K7794F.D	11/14/2011	0:37	4.002	11.424
18	AR12623K2	E2K7795F.D	11/14/2011	0:58	4.002	11.425
19	AR12681K2	E2K7796F.D	11/14/2011	1:19	4.002	11.425
20	AR12682K2	E2K7798F.D	11/14/2011	8:23	4.021	11.451
21	AR12683K2	E2K7799F.D	11/14/2011	8:54	4.018	11.447
22	AR12684K2	E2K7800F.D	11/14/2011	9:17	4.004	11.427
23	AR12685K2	E2K7801F.D	11/14/2011	9:38	4.003	11.425
24	AR16601K2	E2K7802F.D	11/14/2011	9:59	4.003	11.424
25	AR16602K2	E2K7804F.D	11/14/2011	10:40	4.004	11.422
26	AR16603K2	E2K7805F.D	11/14/2011	11:01	4.003	11.423
27	AR16604K2	E2K7806F.D	11/14/2011	11:22	4.003	11.422

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 11/13/2011 11/14/2011

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.003 DCB: 11.423

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
28	AR16605K2	E2K7807F.D	11/14/2011	11:43	4.002	11.423
29	AIBLKKG	E2K7942F.D	11/16/2011	1:49	4.007	11.429
30	AR16603KG	E2K7943F.D	11/16/2011	2:10	4.004	11.428
31	ZZZZZ	E2K7944F.D	11/16/2011	2:31	4.005	11.427
32	ZZZZZ	E2K7945F.D	11/16/2011	2:52	4.007	11.428
33	ZZZZZ	E2K7946F.D	11/16/2011	3:13	4.006	11.428
34	ZZZZZ	E2K7947F.D	11/16/2011	3:34	4.006	11.429
35	ABLK2M	E2K7948F.D	11/16/2011	3:55	4.005	11.429
36	ALCS2M	E2K7949F.D	11/16/2011	4:15	4.004	11.425
37	H30T9	E2K7950F.D	11/16/2011	4:36	4.006	11.428
38	H30W0	E2K7951F.D	11/16/2011	4:57	4.006	11.427
39	H30W1	E2K7952F.D	11/16/2011	5:18	4.005	11.428
40	H30W2	E2K7953F.D	11/16/2011	5:39	4.006	11.427
41	H30W3	E2K7954F.D	11/16/2011	6:00	4.006	11.427
42	H30W4	E2K7955F.D	11/16/2011	6:21	4.005	11.426
43	H30W5	E2K7956F.D	11/16/2011	6:42	4.004	11.426
44	H30W6	E2K7957F.D	11/16/2011	7:03	4.005	11.426
45	H30W7	E2K7958F.D	11/16/2011	7:24	4.005	11.426
46	H30W8	E2K7959F.D	11/16/2011	7:45	4.007	11.426
47	H30X0	E2K7960F.D	11/16/2011	8:06	4.006	11.427
48	H30X1	E2K7961F.D	11/16/2011	8:26	4.005	11.426
49	H30Y2	E2K7962F.D	11/16/2011	8:47	4.005	11.426
50	H30Y3	E2K7963F.D	11/16/2011	9:08	4.005	11.426
51	H30Y4	E2K7964F.D	11/16/2011	9:29	4.004	11.425
52	H30Y5	E2K7965F.D	11/16/2011	9:50	4.004	11.426
53	H30Y6	E2K7966F.D	11/16/2011	10:11	4.004	11.426
54	H30Z6	E2K7967F.D	11/16/2011	10:32	4.004	11.426

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 11/13/2011 11/14/2011

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.003 DCB: 11.423

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
55	H30X3	E2K7968F.D	11/16/2011	10:53	4.004	11.425
56	ABLK2N	E2K7969F.D	11/16/2011	11:14	4.004	11.425
57	ALCS2N	E2K7970F.D	11/16/2011	11:35	4.004	11.425
58	H30X3MS	E2K7971F.D	11/16/2011	11:56	4.003	11.425
59	H30X3MSD	E2K7972F.D	11/16/2011	12:16	4.004	11.426
60	AIBLKKH	E2K7973F.D	11/16/2011	12:37	4.003	11.426
61	AR16603KH	E2K7974F.D	11/16/2011	12:58	4.005	11.426

	QC LIMITS
TCX = Tetrachloro-m-xylene	(± 0.05 MINUTES)
DCB = Decachlorobiphenyl	(± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 11/13/2011 11/14/2011

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.631 DCB: 15.432

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR12213K2	E2K7775R.D	11/13/2011	17:59	4.632	15.440
02	AR12323K2	E2K7776R.D	11/13/2011	18:20	4.632	15.438
03	AR12421K2	E2K7777R.D	11/13/2011	18:41	4.633	15.440
04	AR12422K2	E2K7779R.D	11/13/2011	19:23	4.631	15.440
05	AR12423K2	E2K7780R.D	11/13/2011	19:44	4.631	15.439
06	AR12424K2	E2K7781R.D	11/13/2011	20:05	4.630	15.440
07	AR12425K2	E2K7782R.D	11/13/2011	20:26	4.630	15.439
08	AR12481K2	E2K7783R.D	11/13/2011	20:47	4.632	15.438
09	AR12482K2	E2K7785R.D	11/13/2011	21:29	4.631	15.436
10	AR12483K2	E2K7786R.D	11/13/2011	21:50	4.631	15.438
11	AR12484K2	E2K7787R.D	11/13/2011	22:11	4.630	15.439
12	AR12485K2	E2K7788R.D	11/13/2011	22:32	4.630	15.438
13	AR12541K2	E2K7789R.D	11/13/2011	22:52	4.632	15.435
14	AR12542K2	E2K7791R.D	11/13/2011	23:34	4.631	15.438
15	AR12543K2	E2K7792R.D	11/13/2011	23:56	4.631	15.439
16	AR12544K2	E2K7793R.D	11/14/2011	0:16	4.630	15.437
17	AR12545K2	E2K7794R.D	11/14/2011	0:37	4.630	15.437
18	AR12623K2	E2K7795R.D	11/14/2011	0:58	4.631	15.437
19	AR12681K2	E2K7796R.D	11/14/2011	1:19	4.631	15.436
20	AR12682K2	E2K7798R.D	11/14/2011	8:23	4.638	15.456
21	AR12683K2	E2K7799R.D	11/14/2011	8:54	4.636	15.450
22	AR12684K2	E2K7800R.D	11/14/2011	9:17	4.631	15.438
23	AR12685K2	E2K7801R.D	11/14/2011	9:38	4.629	15.434
24	AR16601K2	E2K7802R.D	11/14/2011	9:59	4.631	15.433
25	AR16602K2	E2K7804R.D	11/14/2011	10:40	4.632	15.432
26	AR16603K2	E2K7805R.D	11/14/2011	11:01	4.630	15.431
27	AR16604K2	E2K7806R.D	11/14/2011	11:22	4.630	15.429

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 11/13/2011 11/14/2011

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.631 DCB: 15.432

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
28	AR16605K2	E2K7807R.D	11/14/2011	11:43	4.629	15.432
29	AIBLKKG	E2K7942R.D	11/16/2011	1:49	4.633	15.440
30	AR16603KG	E2K7943R.D	11/16/2011	2:10	4.633	15.438
31	ZZZZZ	E2K7944R.D	11/16/2011	2:31	4.633	15.437
32	ZZZZZ	E2K7945R.D	11/16/2011	2:52	4.634	15.440
33	ZZZZZ	E2K7946R.D	11/16/2011	3:13	4.633	15.439
34	ZZZZZ	E2K7947R.D	11/16/2011	3:34	4.633	15.442
35	ABLK2M	E2K7948R.D	11/16/2011	3:55	4.632	15.442
36	ALCS2M	E2K7949R.D	11/16/2011	4:15	4.632	15.437
37	H30T9	E2K7950R.D	11/16/2011	4:36	4.633	15.441
38	H30W0	E2K7951R.D	11/16/2011	4:57	4.633	15.439
39	H30W1	E2K7952R.D	11/16/2011	5:18	4.632	15.440
40	H30W2	E2K7953R.D	11/16/2011	5:39	4.633	15.440
41	H30W3	E2K7954R.D	11/16/2011	6:00	4.633	15.438
42	H30W4	E2K7955R.D	11/16/2011	6:21	4.632	15.436
43	H30W5	E2K7956R.D	11/16/2011	6:42	4.632	15.437
44	H30W6	E2K7957R.D	11/16/2011	7:03	4.632	15.439
45	H30W7	E2K7958R.D	11/16/2011	7:24	4.633	15.437
46	H30W8	E2K7959R.D	11/16/2011	7:45	4.633	15.438
47	H30X0	E2K7960R.D	11/16/2011	8:06	4.633	15.437
48	H30X1	E2K7961R.D	11/16/2011	8:26	4.632	15.435
49	H30Y2	E2K7962R.D	11/16/2011	8:47	4.632	15.435
50	H30Y3	E2K7963R.D	11/16/2011	9:08	4.633	15.436
51	H30Y4	E2K7964R.D	11/16/2011	9:29	4.632	15.435
52	H30Y5	E2K7965R.D	11/16/2011	9:50	4.632	15.436
53	H30Y6	E2K7966R.D	11/16/2011	10:11	4.632	15.434
54	H30Z6	E2K7967R.D	11/16/2011	10:32	4.632	15.437

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 11/13/2011 11/14/2011

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 4.631 DCB: 15.432

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
55	H30X3	E2K7968R.D	11/16/2011	10:53	4.632	15.433
56	ABLK2N	E2K7969R.D	11/16/2011	11:14	4.632	15.434
57	ALCS2N	E2K7970R.D	11/16/2011	11:35	4.632	15.435
58	H30X3MS	E2K7971R.D	11/16/2011	11:56	4.632	15.433
59	H30X3MSD	E2K7972R.D	11/16/2011	12:16	4.632	15.435
60	AIBLKKH	E2K7973R.D	11/16/2011	12:37	4.631	15.435
61	AR16603KH	E2K7974R.D	11/16/2011	12:58	4.632	15.434

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

H30X3MS

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Lab Sample ID: K2200-20AMS Date(s) Analyzed: 11/16/2011 11/16/2011

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (MM)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
Aroclor-1016	1	5.608	5.537	5.677	2.2334		
	2	5.786	5.715	5.855	2.2842		
COLUMN 1	3	6.041	5.971	6.111	2.2282		
	4						
	5					2.248601	
	1	6.252	6.183	6.323	3.6127		
	2	6.507	6.435	6.575	2.0971		
COLUMN 2	3	6.662	6.590	6.730	2.5027		
	4						
	5					2.737510	21.7
Aroclor-1260	1	7.803	7.731	7.871	1.8823		
	2	8.098	8.026	8.166	1.7536		
COLUMN 1	3	8.509	8.437	8.577	1.7850		
	4						
	5					1.806990	
	1	9.260	9.189	9.329	1.7955		
	2	9.405	9.333	9.473	1.8232		
COLUMN 2	3	9.890	9.818	9.958	1.8411		
	4						
	5					1.819910	0.7

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.

H30X3MSD

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Lab Sample ID: K2200-20AMSD Date(s) Analyzed: 11/16/2011 11/16/2011

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (MM)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
Aroclor-1016 COLUMN 1	1	5.609	5.537	5.677	1.9186		
	2	5.786	5.715	5.855	1.9991		
	3	6.040	5.971	6.111	1.9649		
	4						
	5					1.960887	
COLUMN 2	1	6.252	6.183	6.323	3.2010		
	2	6.507	6.435	6.575	1.7712		
	3	6.662	6.590	6.730	2.1350		
	4						
	5					2.369061	20.8
Aroclor-1260 COLUMN 1	1	7.804	7.731	7.871	1.5693		
	2	8.099	8.026	8.166	1.4478		
	3	8.510	8.437	8.577	1.4734		
	4						
	5					1.496829	
COLUMN 2	1	9.262	9.189	9.329	1.4264		
	2	9.406	9.333	9.473	1.4548		
	3	9.891	9.818	9.958	1.4338		
	4						
	5					1.438323	4.1

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.

ALCS2M

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Lab Sample ID: LCS-62638 Date(s) Analyzed: 11/16/2011 11/16/2011

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (MM)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
Aroclor-1016	1	5.609	5.537	5.677	0.9899		
	2	5.787	5.715	5.855	0.9894		
COLUMN 1	3	6.042	5.971	6.111	1.0073		
	4						
	5					0.995520	
	1	6.254	6.183	6.323	0.9902		
	2	6.508	6.435	6.575	0.8677		
COLUMN 2	3	6.663	6.590	6.730	0.9227		
	4						
	5					0.926855	7.4
Aroclor-1260	1	7.804	7.731	7.871	0.9026		
	2	8.099	8.026	8.166	0.9170		
COLUMN 1	3	8.510	8.437	8.577	0.9094		
	4						
	5					0.909663	
	1	9.263	9.189	9.329	0.8137		
	2	9.407	9.333	9.473	0.8391		
COLUMN 2	3	9.892	9.818	9.958	0.8288		
	4						
	5					0.827217	10

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.

ALCS2N

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Lab Sample ID: LCS-62719 Date(s) Analyzed: 11/16/2011 11/16/2011

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (MM)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
Aroclor-1016 COLUMN 1	1	5.610	5.537	5.677	0.9424		
	2	5.788	5.715	5.855	0.9652		
	3	6.043	5.971	6.111	0.9772		
	4						
	5					0.961603	
COLUMN 2	1	6.254	6.183	6.323	0.9827		
	2	6.507	6.435	6.575	0.8371		
	3	6.663	6.590	6.730	0.8953		
	4						
	5					0.905048	6.2
Aroclor-1260 COLUMN 1	1	7.805	7.731	7.871	0.9751		
	2	8.099	8.026	8.166	0.8687		
	3	8.510	8.437	8.577	0.9158		
	4						
	5					0.919859	
COLUMN 2	1	9.262	9.189	9.329	0.8394		
	2	9.406	9.333	9.473	0.8832		
	3	9.891	9.818	9.958	0.8628		
	4						
	5					0.861805	6.7

At least 3 peaks for each column are required for identification of multicomponent analytes

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7775F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7775F.D
Lab Smp Id: AR12213K2 Client Smp ID: AR12213K2
Inj Date : 13-NOV-2011 17:59
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12213K2,AR12213K2,,ar1221.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805F.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

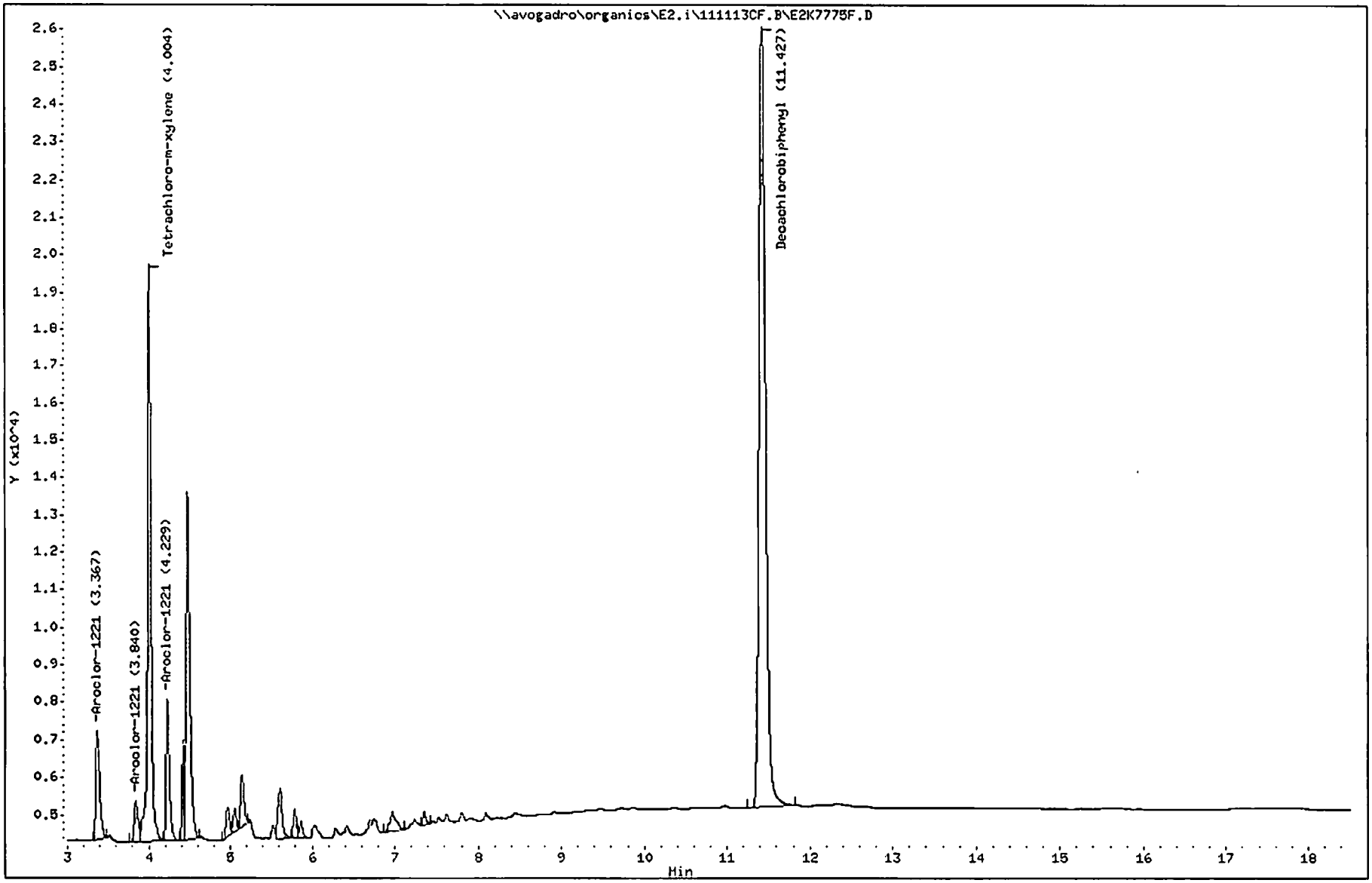
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	438813	0.02000	0.020			(a)
3 Aroclor-1221					CAS #: 11104-28-2			
3.366	3.366	0.000	91368	0.40000	0.40	80.00- 120.00	100.00	(a)
3.840	3.840	0.000	35065	0.40000	0.40	18.38- 58.38	38.38	
4.229	4.229	0.000	105192	0.40000	0.40	95.13- 135.13	115.13	
Average of Peak Amounts =					0.40000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	1137412	0.04000	0.039			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7775F.D
Date : 13-NOV-2011 17:59
Client ID: AR12213K2
Sample Info: AR12213K2,AR12213K2,,ar1221.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7775R.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7775R.D
Lab Smp Id: AR12213K2 Client Smp ID: AR12213K2
Inj Date : 13-NOV-2011 17:59
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12213K2,AR12213K2,,ar1221.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805R.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

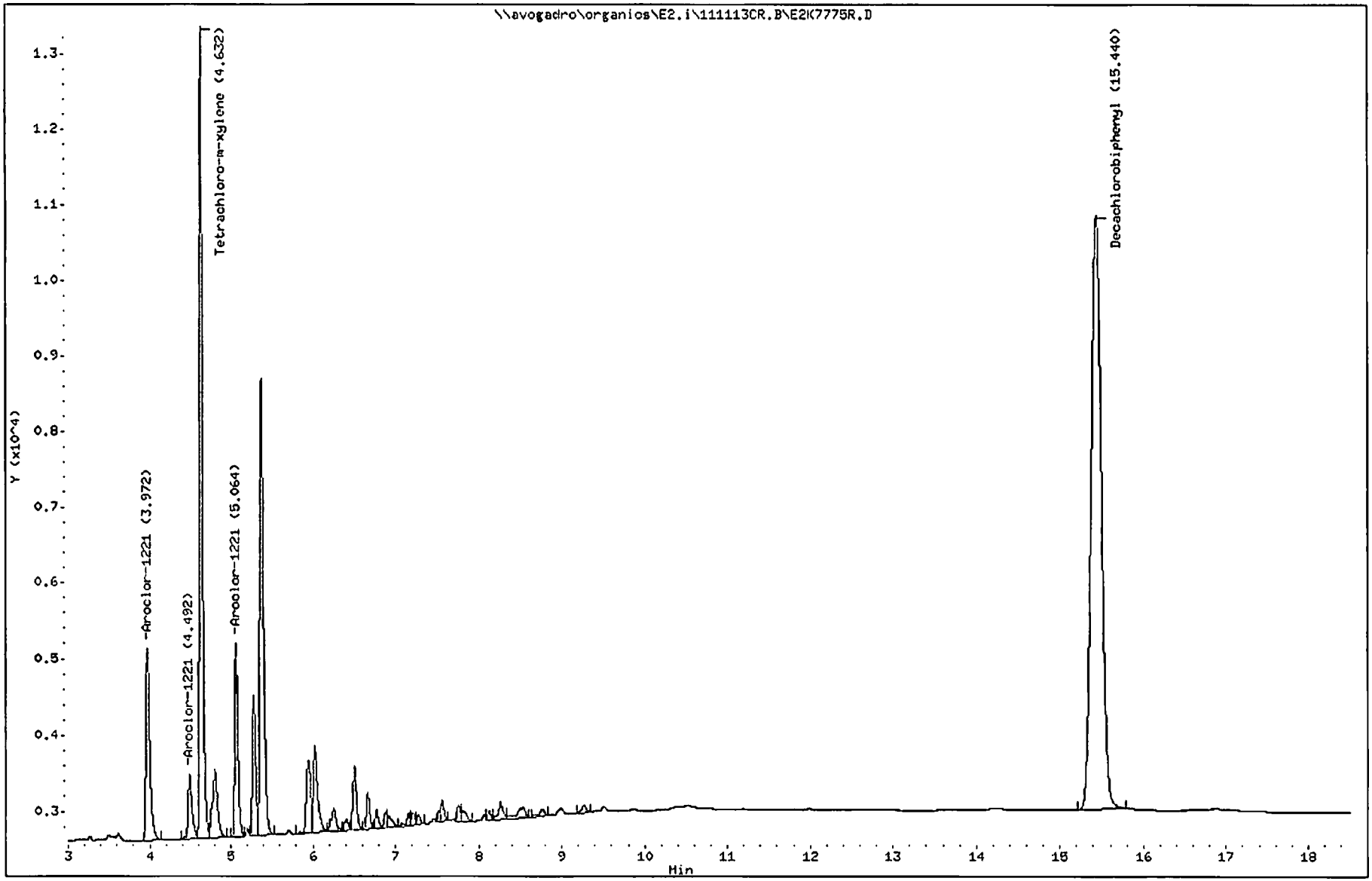
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.632	4.629	0.003	254538	0.02000	0.020			(a)
2 Aroclor-1221					CAS #: 11104-28-2			
3.972	3.972	0.000	79104	0.40000	0.40	80.00- 120.00	100.00	(a)
4.491	4.491	0.000	29162	0.40000	0.40	16.87- 56.87	36.87	
5.063	5.063	0.000	67378	0.40000	0.40	65.18- 105.18	85.18	
Average of Peak Amounts =					0.40000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.439	15.432	0.007	662686	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\111113CR.B\E2K7775R.D
Date : 13-NOV-2011 17:59
Client ID: AR12213K2
Sample Info: AR12213K2,AR12213K2,,ar1221.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7776F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7776F.D
Lab Smp Id: AR12323K2 Client Smp ID: AR12323K2
Inj Date : 13-NOV-2011 18:20
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12323K2,AR12323K2,,ar1232.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805F.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	430652	0.02000	0.020			(a)
4 Aroclor-1232					CAS #: 11141-16-5			
4.228	4.228	0.000	72156	0.40000	0.40	80.00- 120.00	100.00	(a)
4.477	4.477	0.000	244126	0.40000	0.40	318.33- 358.33	338.33	
4.964	4.964	0.000	203588	0.40000	0.40	262.15- 302.15	282.15	
Average of Peak Amounts =				0.40000				
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	1124501	0.04000	0.039			(a)

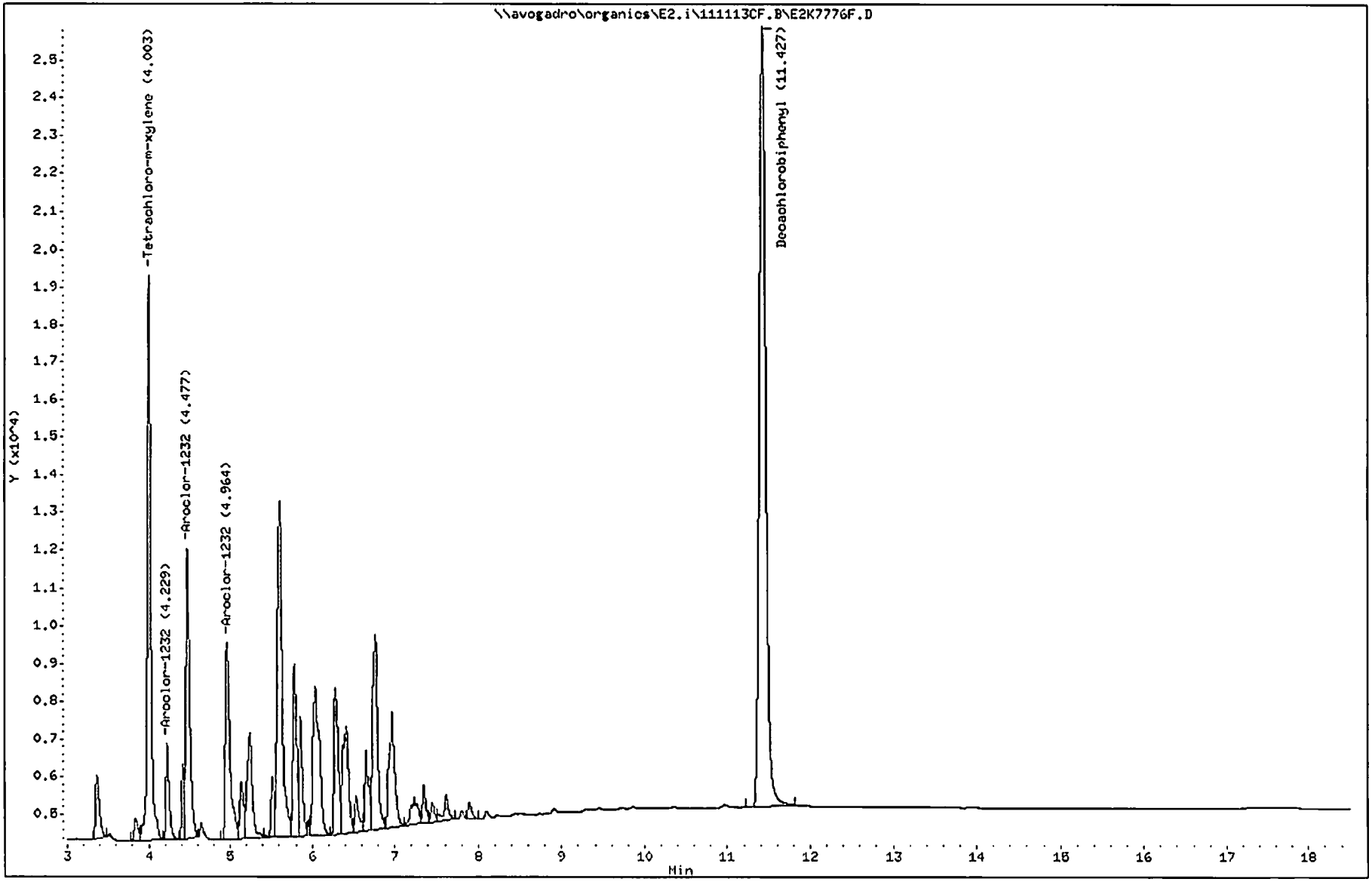
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7776F.D
Date : 13-NOV-2011 18:20
Client ID: AR12323K2
Sample Info: AR12323K2,AR12323K2,,ar1232.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7776R.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7776R.D
Lab Smp Id: AR12323K2 Client Smp ID: AR12323K2
Inj Date : 13-NOV-2011 18:20
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12323K2,AR12323K2,,ar1232.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805R.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

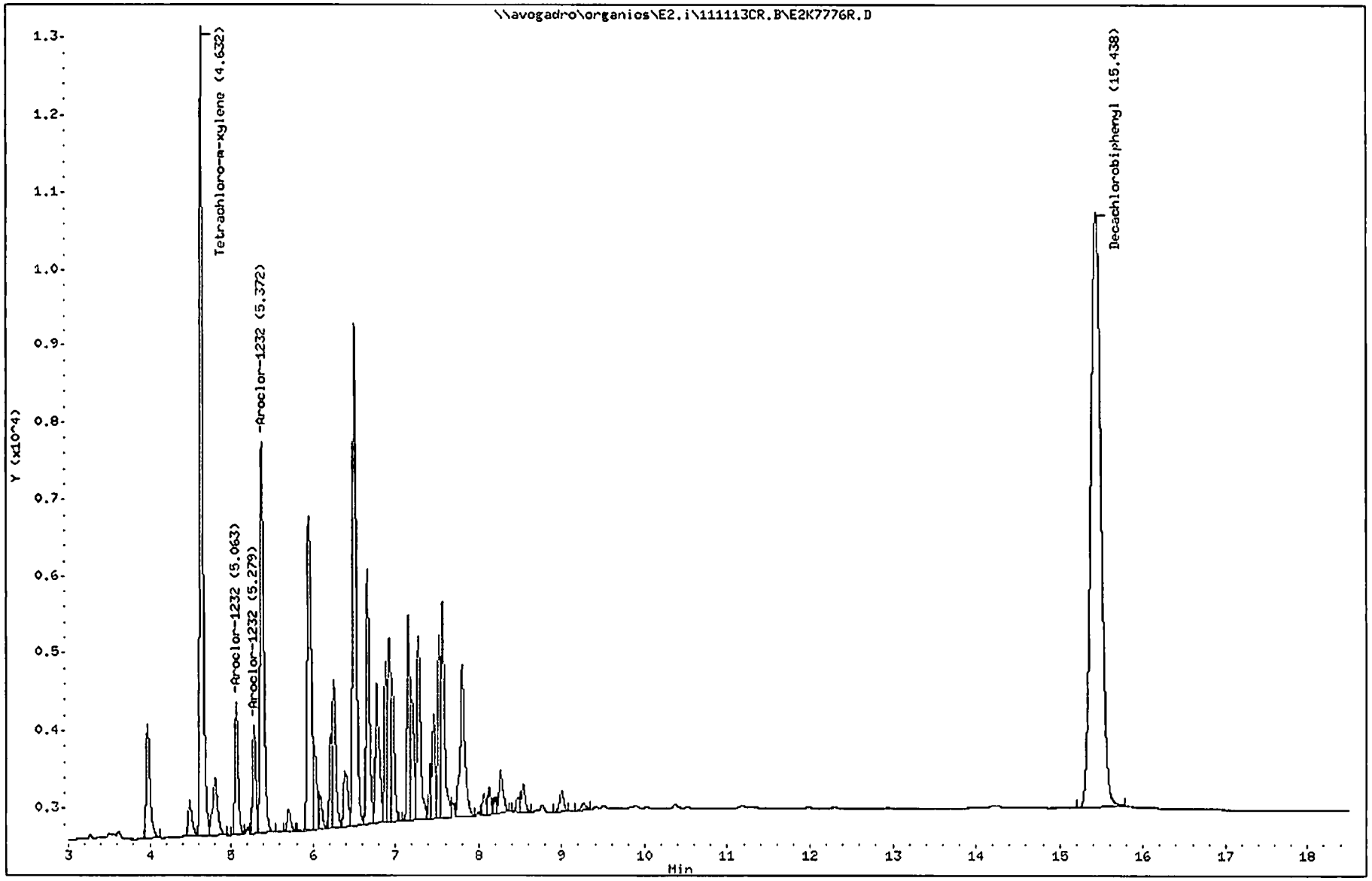
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	254455	0.02000	0.020			(a)
3 Aroclor-1232					CAS #: 11141-16-5			
5.063	5.063	0.000	45601	0.40000	0.40	80.00- 120.00	100.00	(a)
5.279	5.279	0.000	37889	0.40000	0.40	63.09- 103.09	83.09	
5.372	5.372	0.000	156417	0.40000	0.40	323.01- 363.01	343.01	
Average of Peak Amounts =				0.40000				
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.437	15.432	0.005	654474	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\111113CR.B\E2K7776R.D
Date : 13-NOV-2011 18:20
Client ID: AR12323K2
Sample Info: AR12323K2,AR12323K2,,ar1232.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7777F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7777F.D
Lab Smp Id: AR12421K2 Client Smp ID: AR12421K2
Inj Date : 13-NOV-2011 18:41
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12421K2,AR12421K2,,ar1242.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802F.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

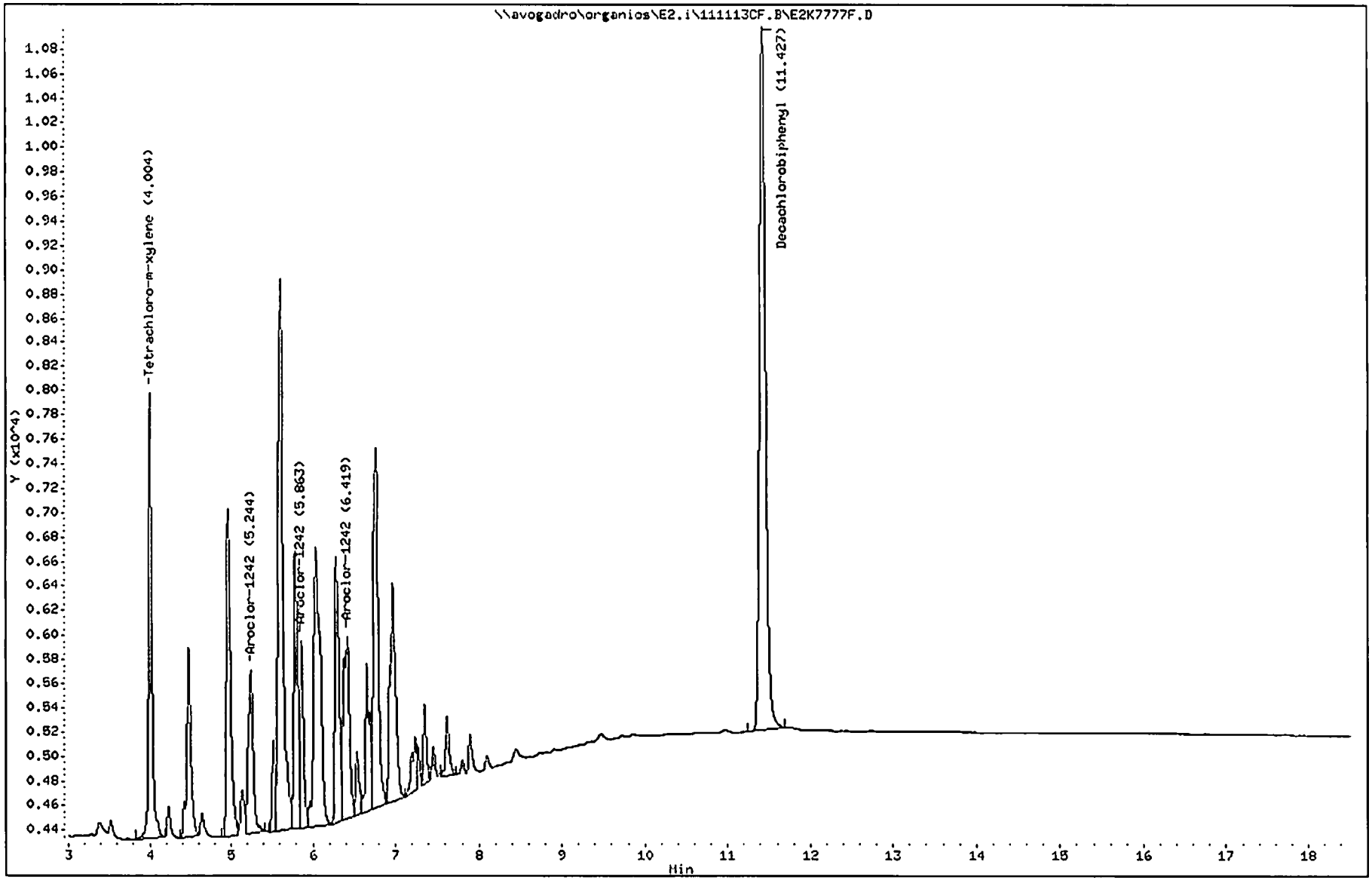
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	100165	0.00500	0.0047			(a)
6 Aroclor-1242					CAS #: 53469-21-9			
5.243	5.241	0.002	56323	0.10000	0.10	80.00- 120.00	100.00	(a)
5.862	5.860	0.002	43768	0.10000	0.10	62.69- 102.69	77.71	
6.419	6.415	0.004	76155	0.10000	0.10	120.31- 160.31	135.21	
Average of Peak Amounts =				0.10000				
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	298163	0.01000	0.010			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7777F.D
Date : 13-NOV-2011 18:41
Client ID: AR12421K2
Sample Info: AR12421K2,AR12421K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7777R.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7777R.D
Lab Smp Id: AR12421K2 Client Smp ID: AR12421K2
Inj Date : 13-NOV-2011 18:41
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12421K2,AR12421K2,,ar1242.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802R.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

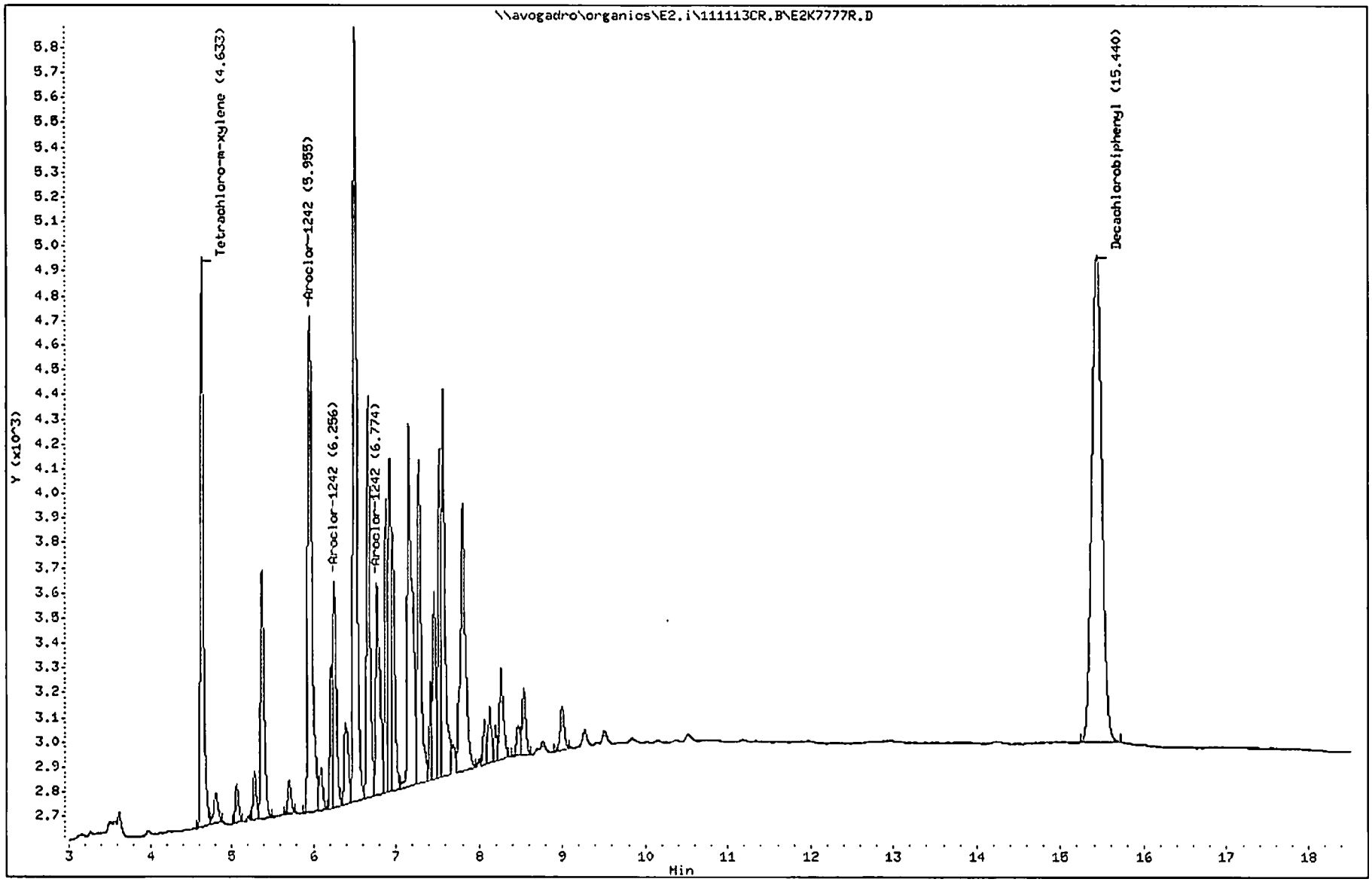
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.632	4.629	0.003	57728	0.00500	0.0045			(a)
4 Aroclor-1242					CAS #: 53469-21-9			
5.955	5.951	0.004	72552	0.10000	0.11	80.00- 120.00	100.00	(a)
6.255	6.252	0.003	26631	0.10000	0.10	18.62- 58.62	36.71	
6.773	6.772	0.001	28333	0.10000	0.099	23.16- 63.16	39.05	
Average of Peak Amounts =					0.10300			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.440	15.432	0.008	165162	0.01000	0.0098			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7777R.D
Date : 13-NOV-2011 18:41
Client ID: AR12421K2
Sample Info: AR12421K2,AR12421K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7779F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7779F.D
Lab Smp Id: AR12422K2 Client Smp ID: AR12422K2
Inj Date : 13-NOV-2011 19:23
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12422K2,AR12422K2,,ar1242.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804F.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

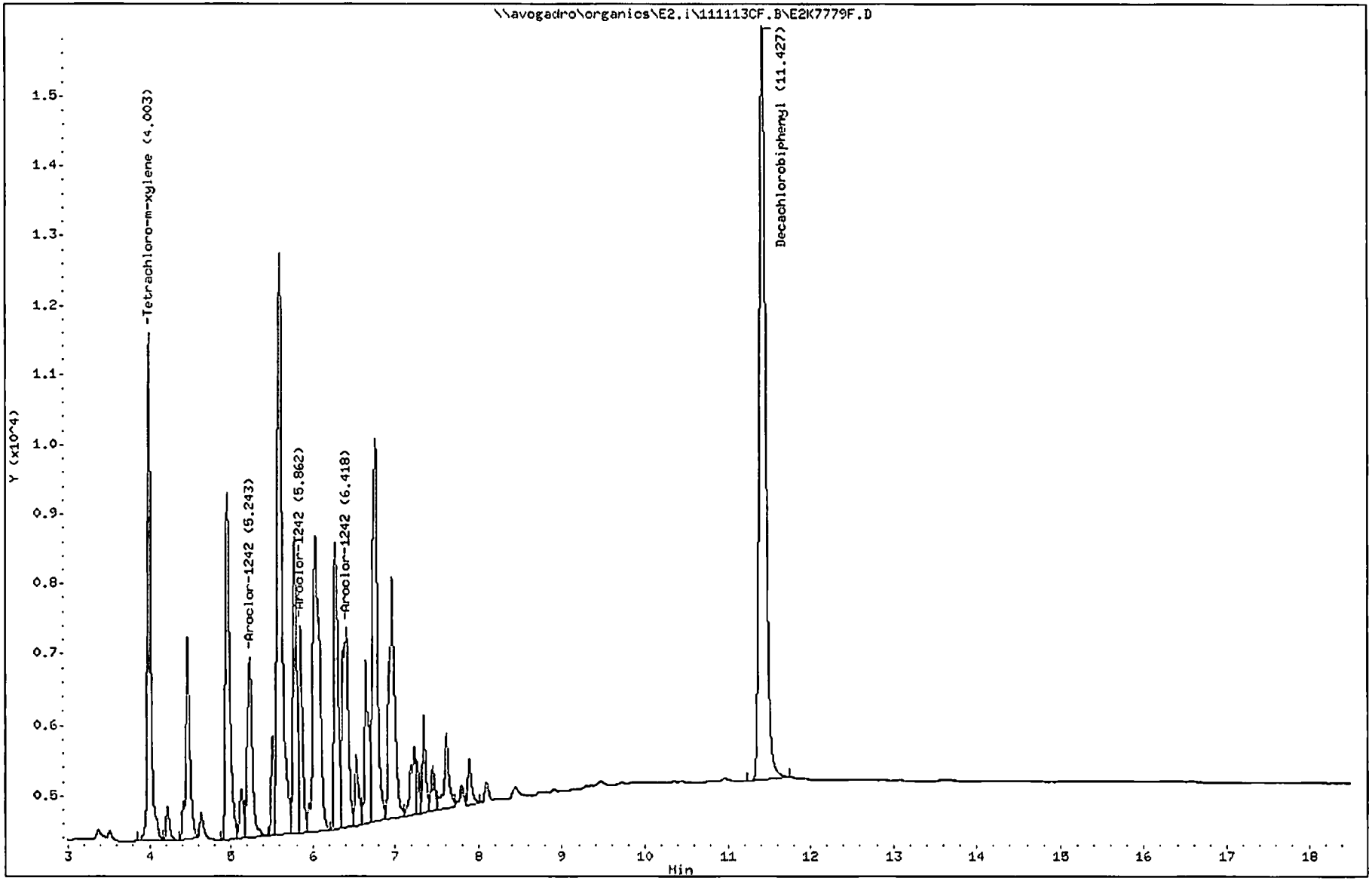
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	201766	0.01000	0.0097			(a)
6 Aroclor-1242					CAS #: 53469-21-9			
5.242	5.241	0.001	110390	0.20000	0.20	80.00- 120.00	100.00	(a)
5.861	5.860	0.001	84070	0.20000	0.20	62.69- 102.69	76.16	
6.418	6.415	0.003	146503	0.20000	0.20	120.31- 160.31	132.71	
Average of Peak Amounts =				0.20000				
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.427	11.422	0.005	566580	0.02000	0.020			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7779F.D
Date : 13-NOV-2011 19:23
Client ID: AR12422K2
Sample Info: AR12422K2,AR12422K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7779R.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7779R.D
Lab Smp Id: AR12422K2 Client Smp ID: AR12422K2
Inj Date : 13-NOV-2011 19:23
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12422K2,AR12422K2,,ar1242.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804R.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

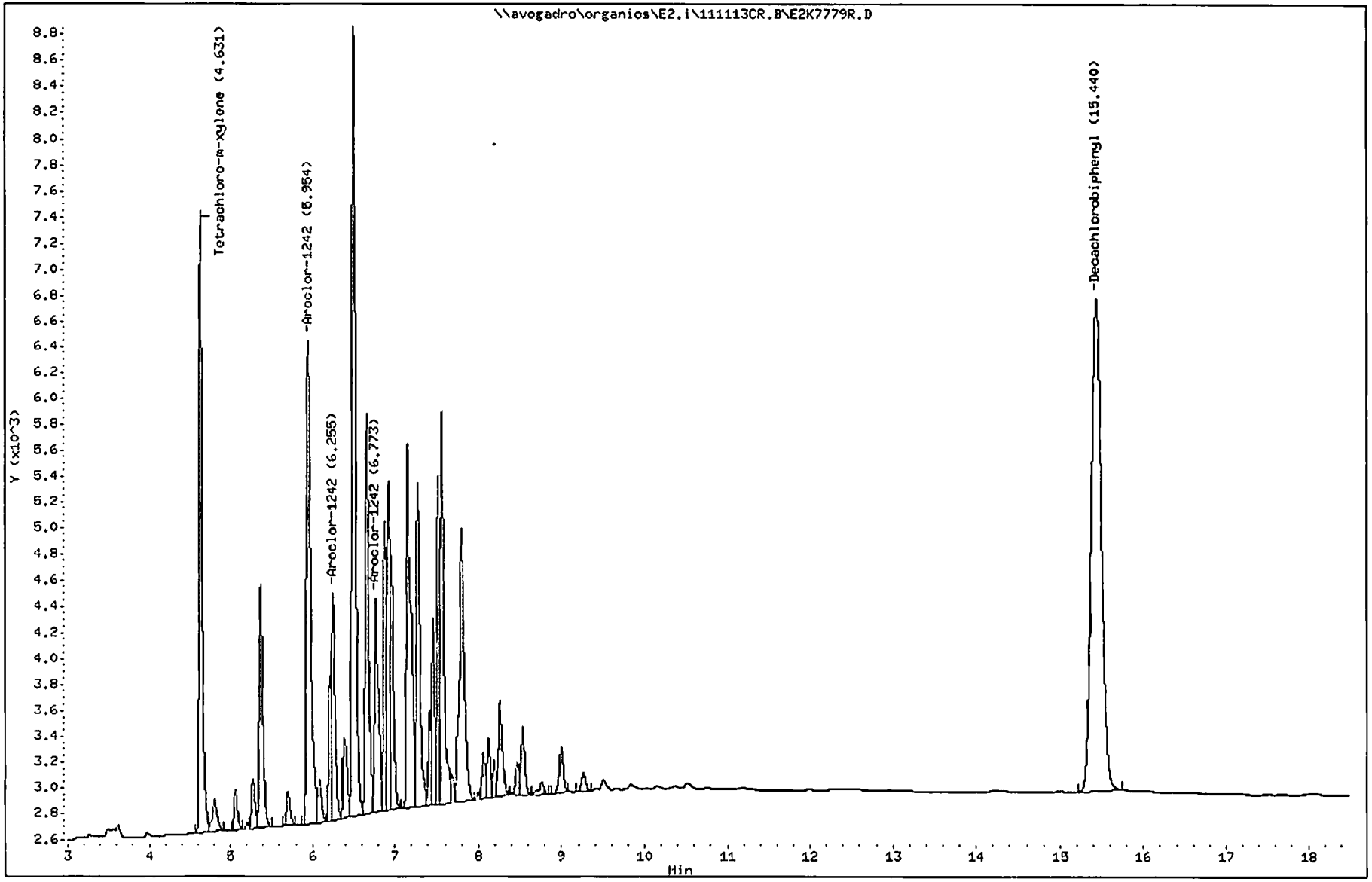
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	119425	0.01000	0.0093			(a)
4 Aroclor-1242					CAS #: 53469-21-9			
5.954	5.951	0.003	136846	0.20000	0.21	80.00- 120.00	100.00	(a)
6.255	6.252	0.003	51380	0.20000	0.20	18.62- 58.62	37.55	
6.772	6.772	0.000	53415	0.20000	0.19	23.16- 63.16	39.03	
Average of Peak Amounts =					0.20000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.440	15.432	0.008	319707	0.02000	0.019			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7779R.D
Date : 13-NOV-2011 19:23
Client ID: AR12422K2
Sample Info: AR12422K2,AR12422K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7780F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7780F.D
Lab Smp Id: AR12423K2 Client Smp ID: AR12423K2
Inj Date : 13-NOV-2011 19:44
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12423K2,AR12423K2,,ar1242.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805F.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: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	421320	0.02000	0.020			(a)
6 Aroclor-1242					CAS #: 53469-21-9			
5.242	5.241	0.001	222031	0.40000	0.41	80.00- 120.00	100.00	(a)
5.861	5.860	0.001	174358	0.40000	0.41	62.69- 102.69	78.53	
6.417	6.415	0.002	239405	0.40000	0.41	120.31- 160.31	134.85	
Average of Peak Amounts =					0.41000			
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	1147877	0.04000	0.041			(a)

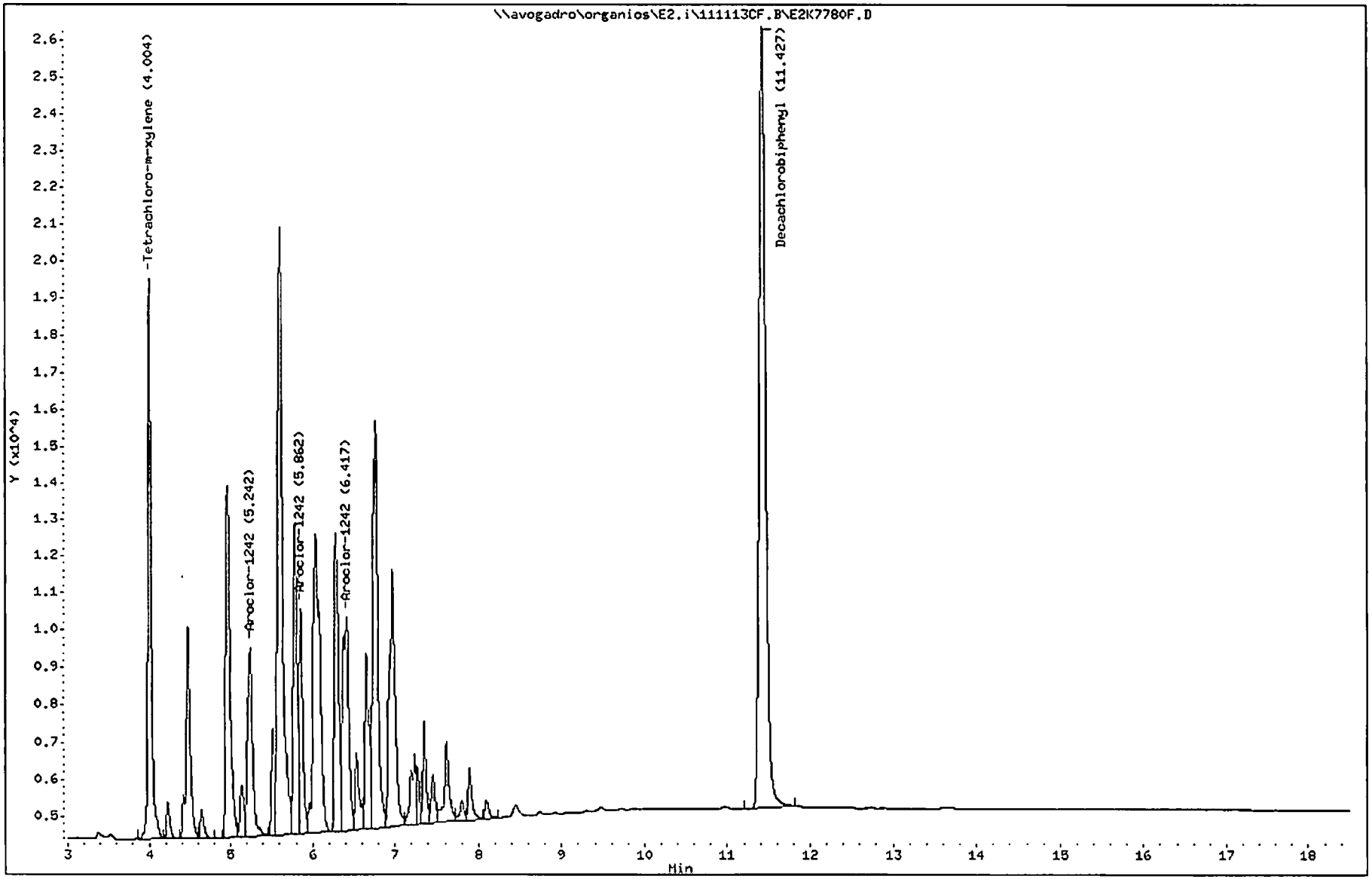
QC Flag Legend

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

Data File: \\avogadro\organios\E2.i\111113CF.B\E2K7780F.D
Date : 13-NOV-2011 19:44
Client ID: AR12423K2
Sample Info: AR12423K2,AR12423K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7780R.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7780R.D
Lab Smp Id: AR12423K2 Client Smp ID: AR12423K2
Inj Date : 13-NOV-2011 19:44
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12423K2,AR12423K2,,ar1242.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805R.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: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

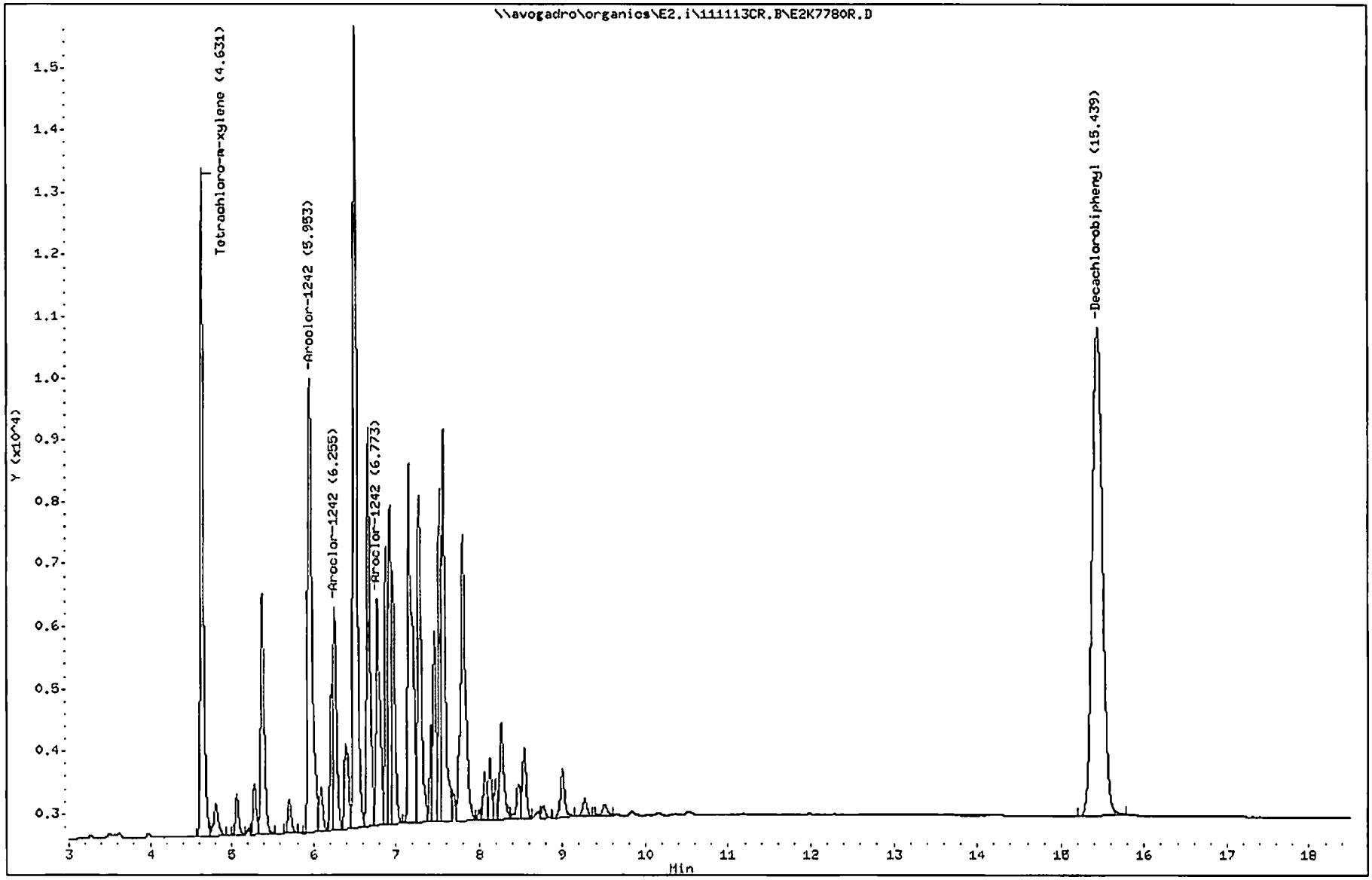
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	260349	0.02000	0.020			(a)
4 Aroclor-1242					CAS #: 53469-21-9			
5.952	5.951	0.001	270089	0.40000	0.41	80.00- 120.00	100.00	(a)
6.254	6.252	0.002	104452	0.40000	0.40	18.62- 58.62	38.67	
6.772	6.772	0.000	114110	0.40000	0.40	23.16- 63.16	42.25	
Average of Peak Amounts =					0.40333			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.439	15.432	0.007	671138	0.04000	0.040			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7780R.D
Date : 13-NOV-2011 19:44
Client ID: AR12423K2
Sample Info: AR12423K2,AR12423K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7781F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7781F.D
Lab Smp Id: AR12424K2 Client Smp ID: AR12424K2
Inj Date : 13-NOV-2011 20:05
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12424K2,AR12424K2,,ar1242.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806F.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

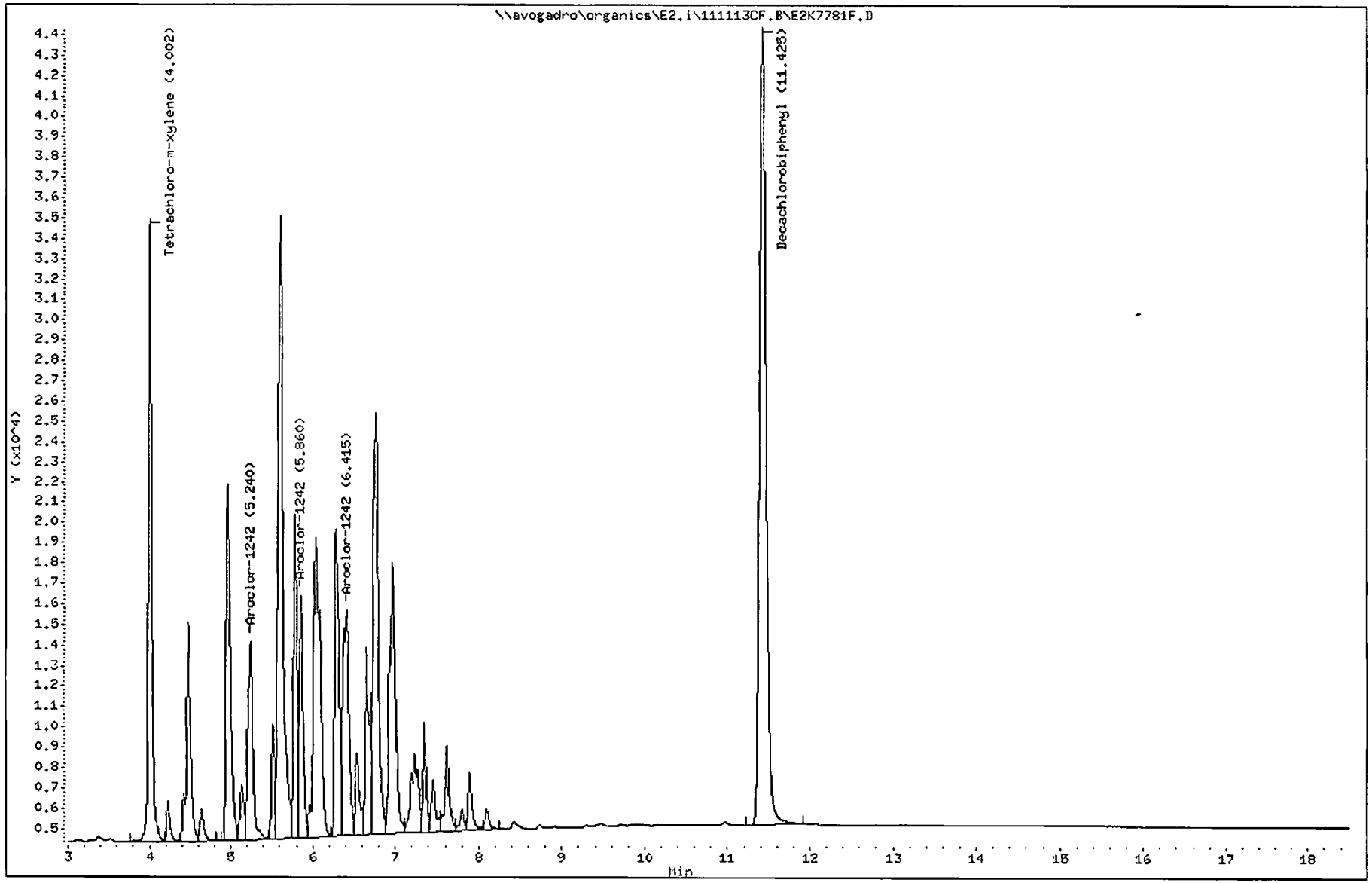
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.002	4.001	0.001	854288	0.04000	0.041			(a)
6 Aroclor-1242					CAS #: 53469-21-9			
5.240	5.241	-0.001	427490	0.80000	0.79	80.00- 120.00	100.00	(a)
5.859	5.860	-0.001	344979	0.80000	0.80	62.69- 102.69	80.70	
6.415	6.415	0.000	580891	0.80000	0.79	120.31- 160.31	135.88	
Average of Peak Amounts =					0.79333			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.424	11.422	0.002	2178023	0.08000	0.078			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7781F.D
Date : 13-NOV-2011 20:05
Client ID: AR12424K2
Sample Info: AR12424K2,AR12424K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7781R.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7781R.D
Lab Smp Id: AR12424K2 Client Smp ID: AR12424K2
Inj Date : 13-NOV-2011 20:05
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12424K2,AR12424K2,,ar1242.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806R.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

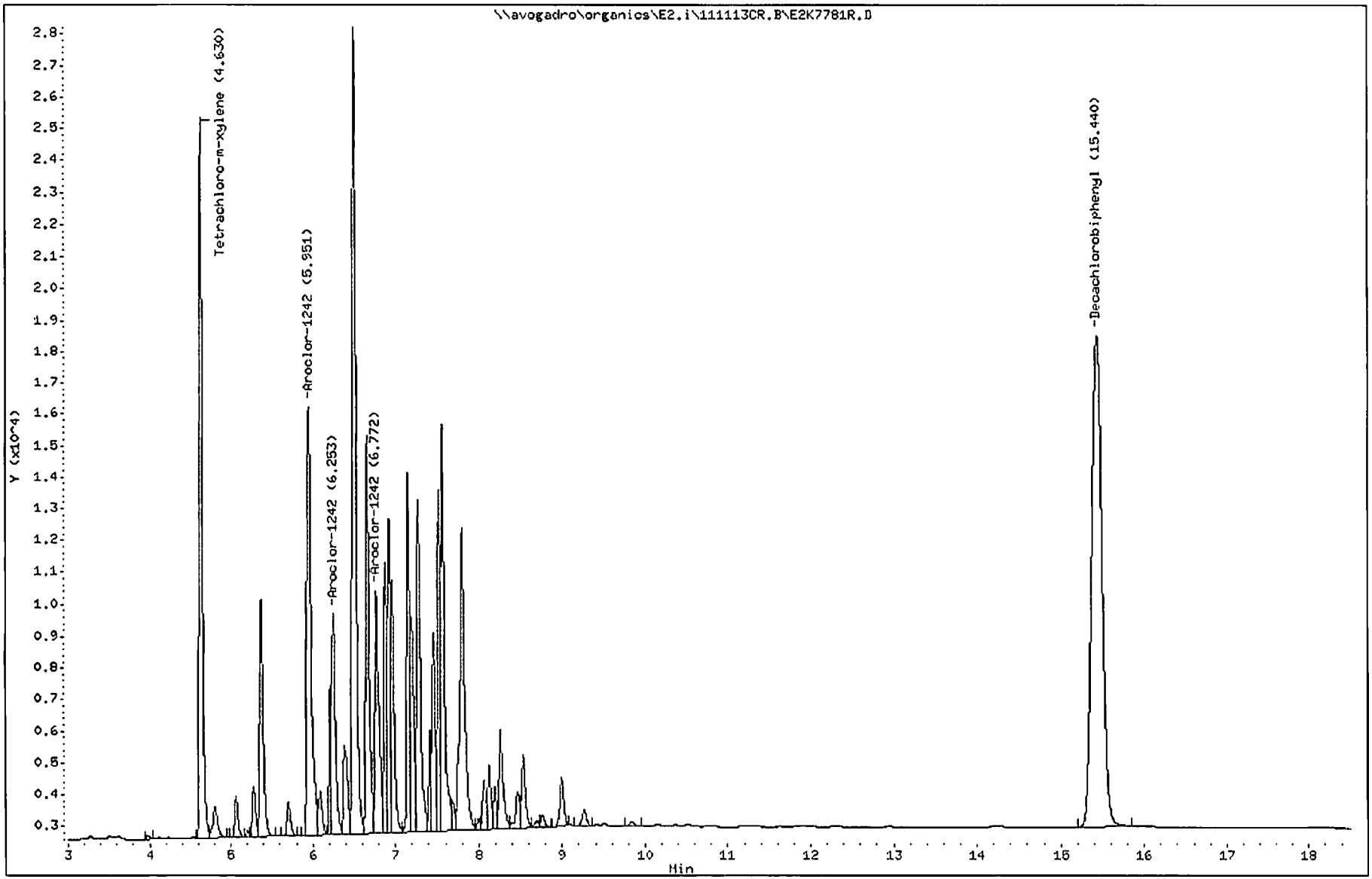
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.630	4.629	0.001	551843	0.04000	0.043			(a)
4 Aroclor-1242					CAS #: 53469-21-9			
5.951	5.951	0.000	507332	0.80000	0.77	80.00- 120.00	100.00	(a)
6.253	6.252	0.001	205517	0.80000	0.80	18.62- 58.62	40.51	
6.772	6.772	0.000	237552	0.80000	0.83	23.16- 63.16	46.82	
Average of Peak Amounts =					0.80000			
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.439	15.432	0.007	1333936	0.08000	0.081			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7781R.D
Date : 13-NOV-2011 20:05
Client ID: AR12424K2
Sample Info: AR12424K2,AR12424K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7782F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7782F.D
Lab Smp Id: AR12425K2 Client Smp ID: AR12425K2
Inj Date : 13-NOV-2011 20:26
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12425K2,AR12425K2,,ar1242.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.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

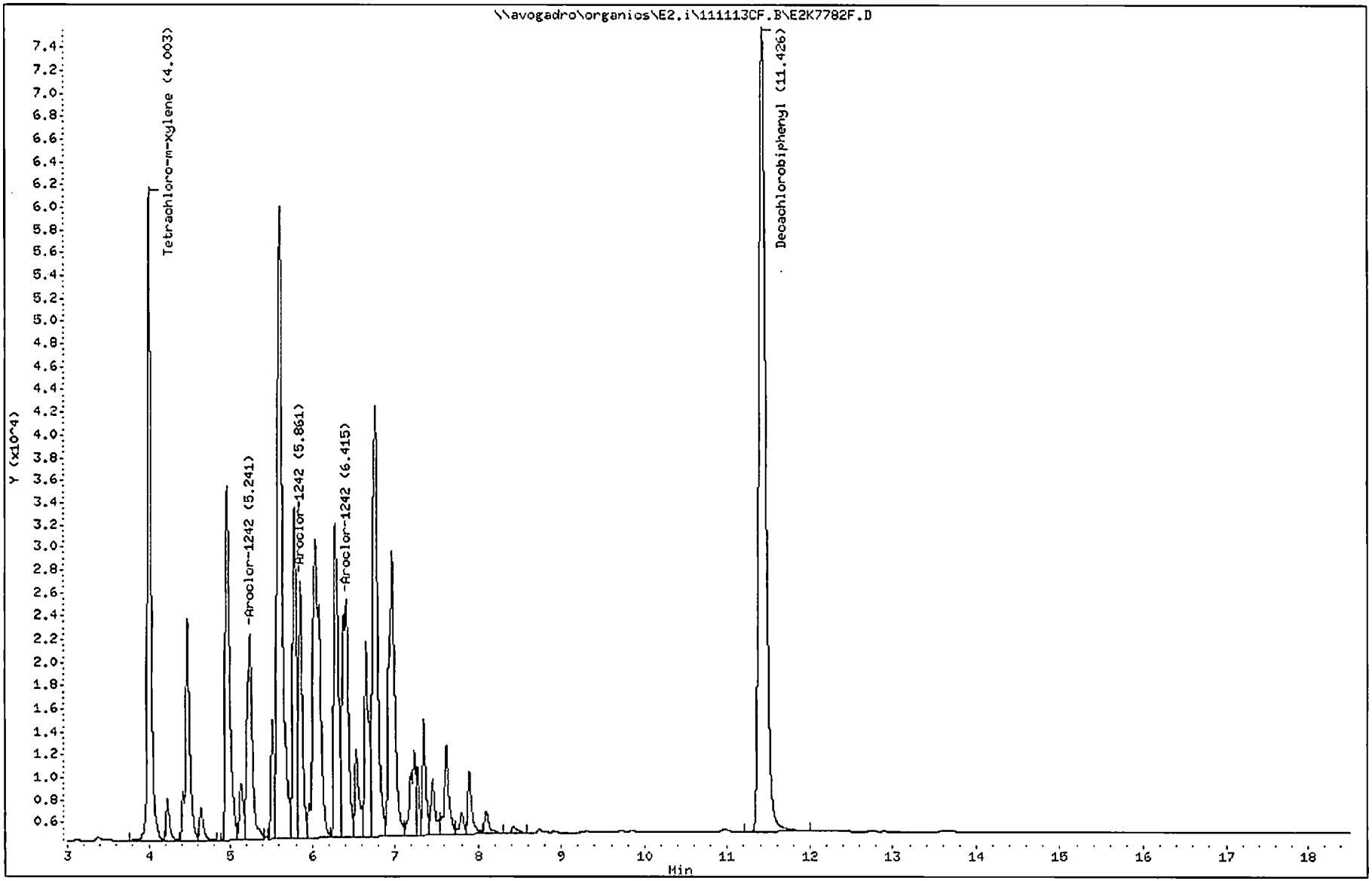
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.002	4.001	0.001	1670340	0.08000	0.081		
6 Aroclor-1242					CAS #: 53469-21-9		
5.241	5.241	0.000	807993	1.60000	1.5	80.00- 120.00	100.00
5.860	5.860	0.000	669850	1.60000	1.6	62.69- 102.69	82.90
6.415	6.415	0.000	1110499	1.60000	1.5	120.31- 160.31	137.44
Average of Peak Amounts =					1.53333		
S 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.426	11.422	0.004	4012397	0.16000	0.14		

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7782F.D
Date : 13-NOV-2011 20:26
Client ID: AR12425K2
Sample Info: AR12425K2,AR12425K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7782R.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7782R.D
Lab Smp Id: AR12425K2 Client Smp ID: AR12425K2
Inj Date : 13-NOV-2011 20:26
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12425K2,AR12425K2,,ar1242.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.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

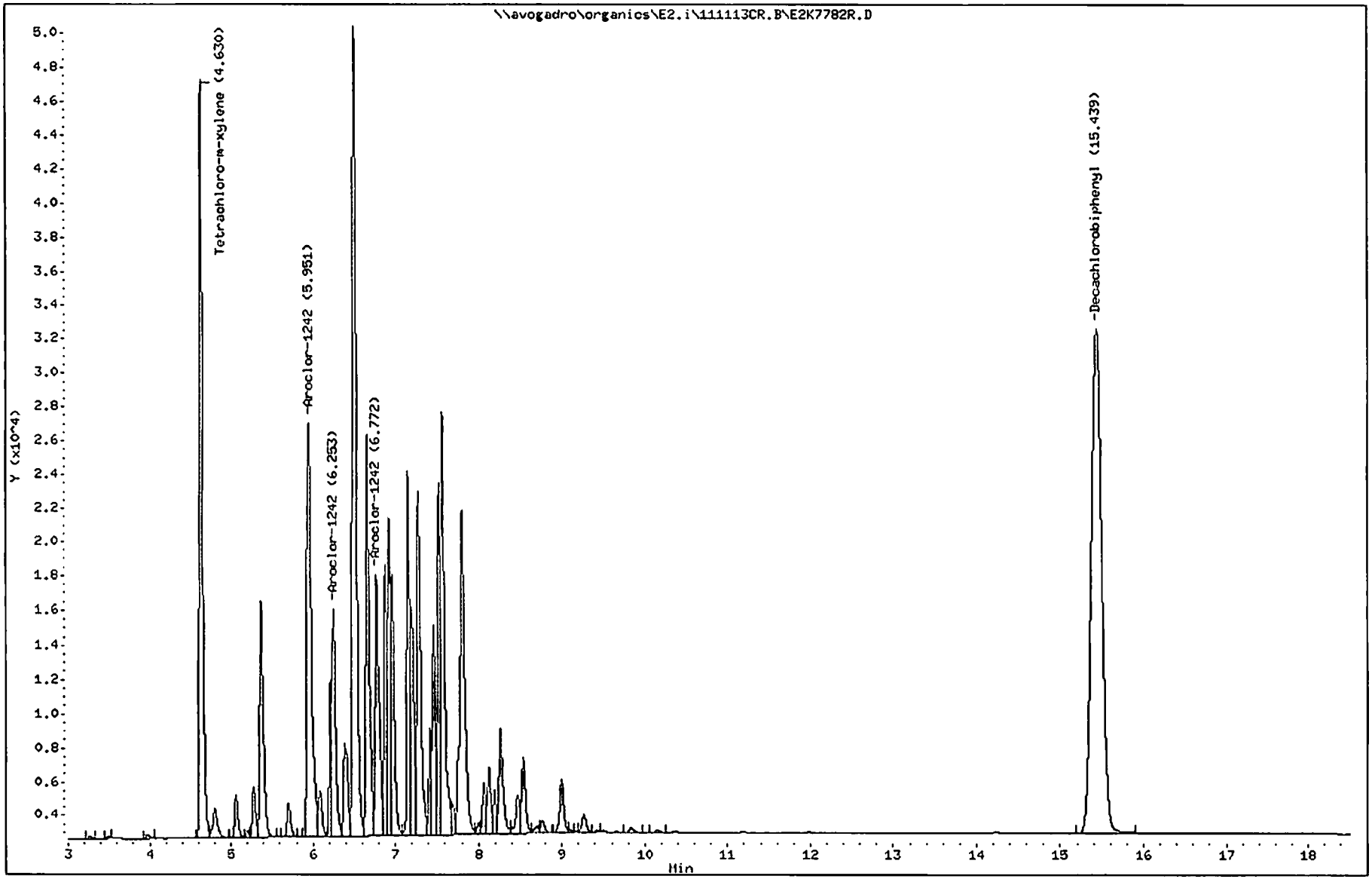
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.630	4.629	0.001	1135720	0.08000	0.088		
4 Aroclor-1242					CAS #: 53469-21-9		
5.951	5.951	0.000	935146	1.60000	1.4	80.00- 120.00	100.00
6.252	6.252	0.000	397452	1.60000	1.5	18.62- 58.62	42.50
6.772	6.772	0.000	476675	1.60000	1.7	23.16- 63.16	50.97
Average of Peak Amounts =					1.53333		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.438	15.432	0.006	2582708	0.16000	0.16		

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7782R.D
Date : 13-NOV-2011 20:26
Client ID: AR12425K2
Sample Info: AR12425K2,AR12425K2,,ar1242.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7783F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7783F.D
Lab Smp Id: AR12481K2 Client Smp ID: AR12481K2
Inj Date : 13-NOV-2011 20:47
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12481K2,AR12481K2,,ar1248.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802F.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

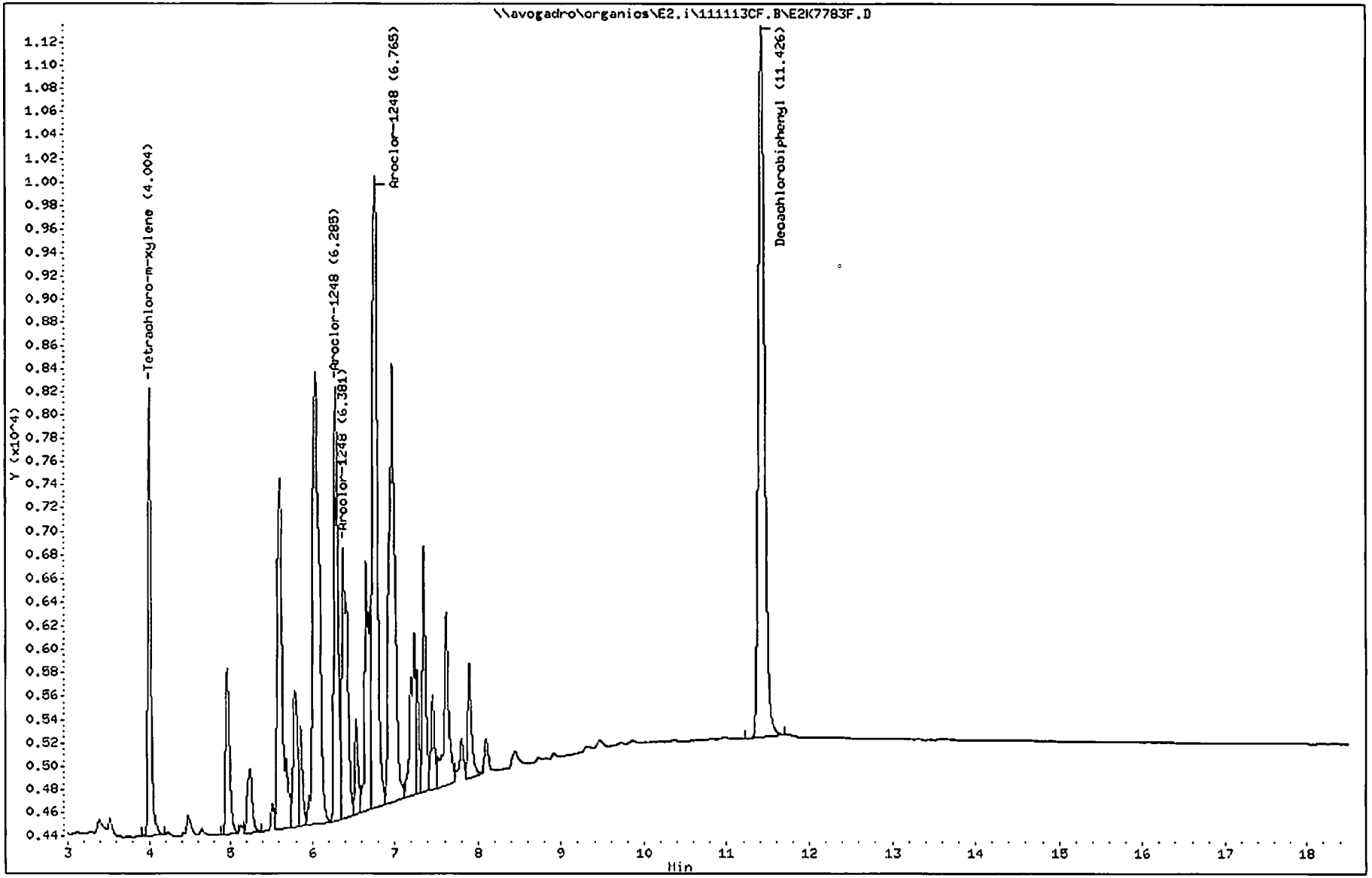
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	97408	0.00500	0.0047			(a)
7 Aroclor-1248					CAS #: 12672-29-6			
6.284	6.282	0.002	123724	0.10000	0.11	80.00- 120.00	100.00	(a)
6.381	6.378	0.003	108236	0.10000	0.11	72.61- 112.61	87.48	
6.764	6.763	0.001	226337	0.10000	0.11	165.48- 205.48	182.94	
Average of Peak Amounts =					0.11000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	313928	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\111113CF.B\E2K7783F.D
Date : 13-NOV-2011 20:47
Client ID: AR12481K2
Sample Info: AR12481K2,AR12481K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7783R.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7783R.D
Lab Smp Id: AR12481K2 Client Smp ID: AR12481K2
Inj Date : 13-NOV-2011 20:47
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12481K2,AR12481K2,,ar1248.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802R.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

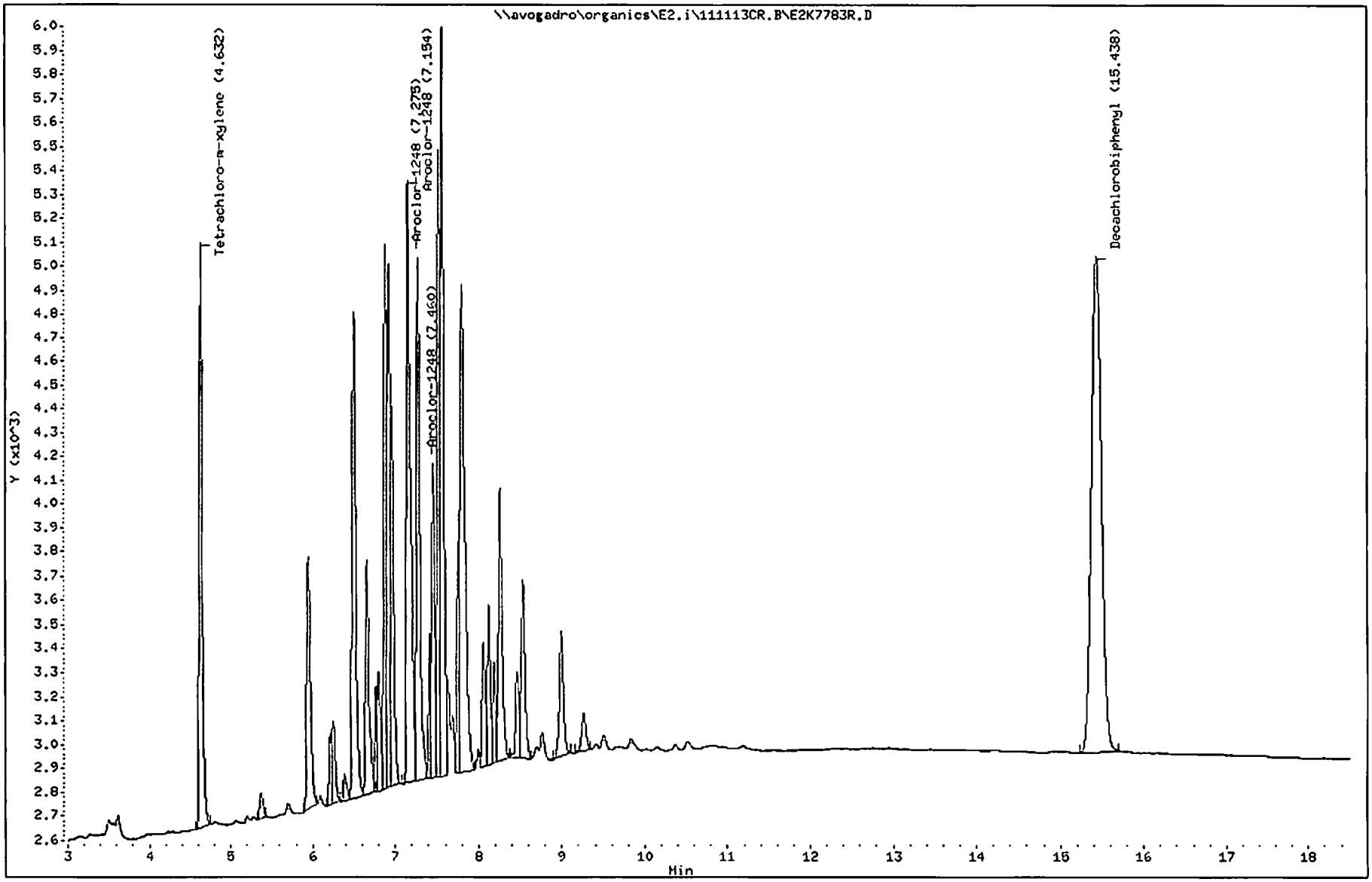
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.632	4.629	0.003	59535	0.00500	0.0046			(a)
5 Aroclor-1248					CAS #: 12672-29-6			
7.153	7.150	0.003	81230	0.10000	0.10	80.00- 120.00	100.00	(a)
7.275	7.272	0.003	62858	0.10000	0.10	60.19- 100.19	77.38	
7.460	7.457	0.003	30758	0.10000	0.10	18.95- 58.95	37.87	
Average of Peak Amounts =				0.10000				
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.437	15.432	0.005	173235	0.01000	0.010			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7783R.D
Date : 13-NOV-2011 20:47
Client ID: AR12481K2
Sample Info: AR12481K2,AR12481K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7785F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7785F.D
Lab Smp Id: AR12482K2 Client Smp ID: AR12482K2
Inj Date : 13-NOV-2011 21:29
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12482K2,AR12482K2,,ar1248.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804F.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	198532	0.01000	0.0097			(a)
7 Aroclor-1248					CAS #: 12672-29-6			
6.283	6.282	0.001	237313	0.20000	0.22	80.00- 120.00	100.00	(a)
6.379	6.378	0.001	213037	0.20000	0.21	72.61- 112.61	89.77	
6.764	6.763	0.001	434027	0.20000	0.20	165.48- 205.48	182.89	
Average of Peak Amounts =				0.21000				
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.425	11.422	0.003	617141	0.02000	0.022			(a)

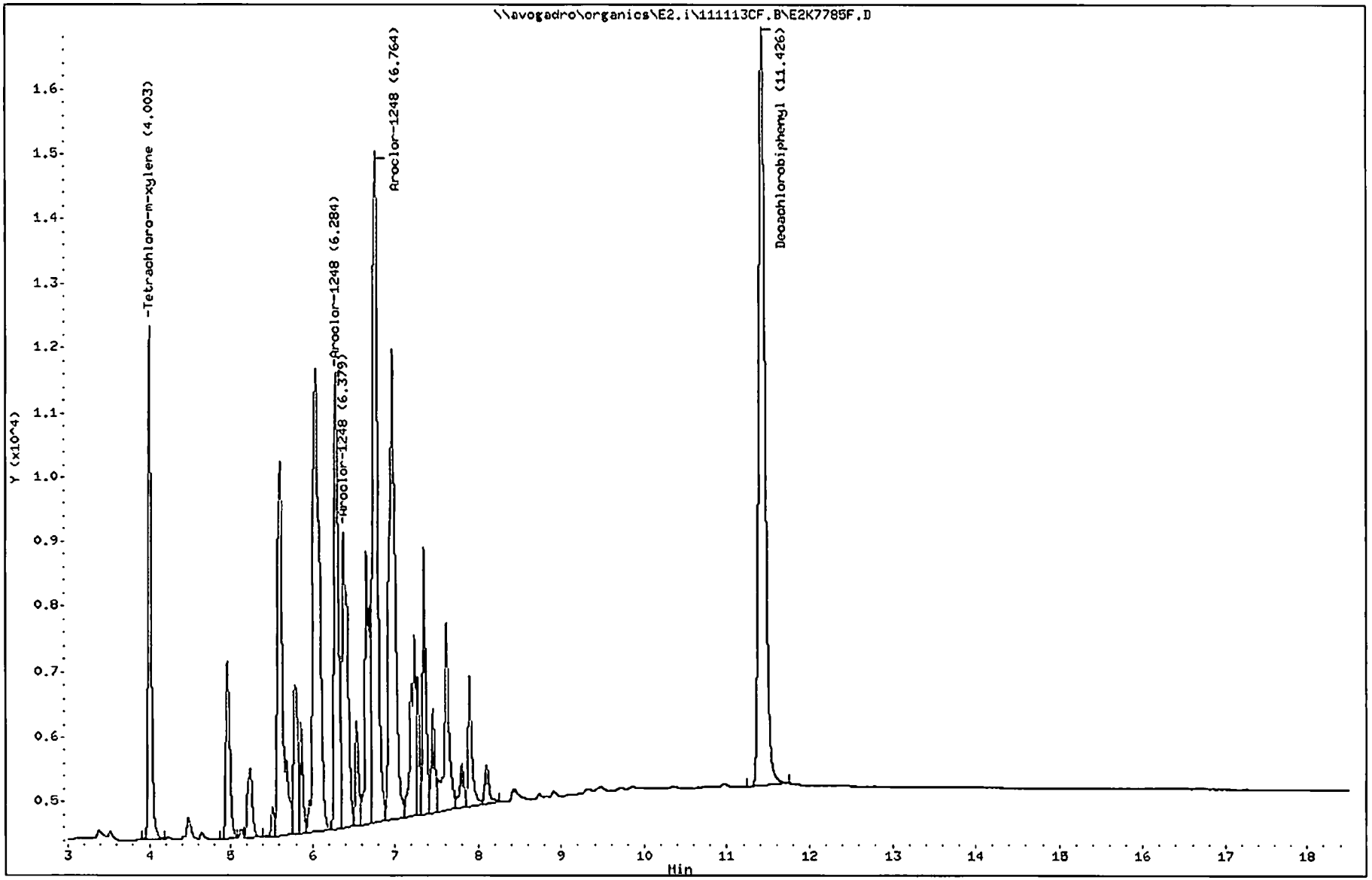
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7785F.D
Date : 13-NOV-2011 21:29
Client ID: AR12482K2
Sample Info: AR12482K2,AR12482K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7785R.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7785R.D
Lab Smp Id: AR12482K2 Client Smp ID: AR12482K2
Inj Date : 13-NOV-2011 21:29
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12482K2,AR12482K2,,ar1248.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804R.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	123933	0.01000	0.0095			(a)
5 Aroclor-1248					CAS #: 12672-29-6			
7.152	7.150	0.002	162653	0.20000	0.21	80.00- 120.00	100.00	(a)
7.274	7.272	0.002	127630	0.20000	0.20	60.19- 100.19	78.47	
7.459	7.457	0.002	62543	0.20000	0.21	18.95- 58.95	38.45	
Average of Peak Amounts =					0.20667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.436	15.432	0.004	347985	0.02000	0.021			(a)

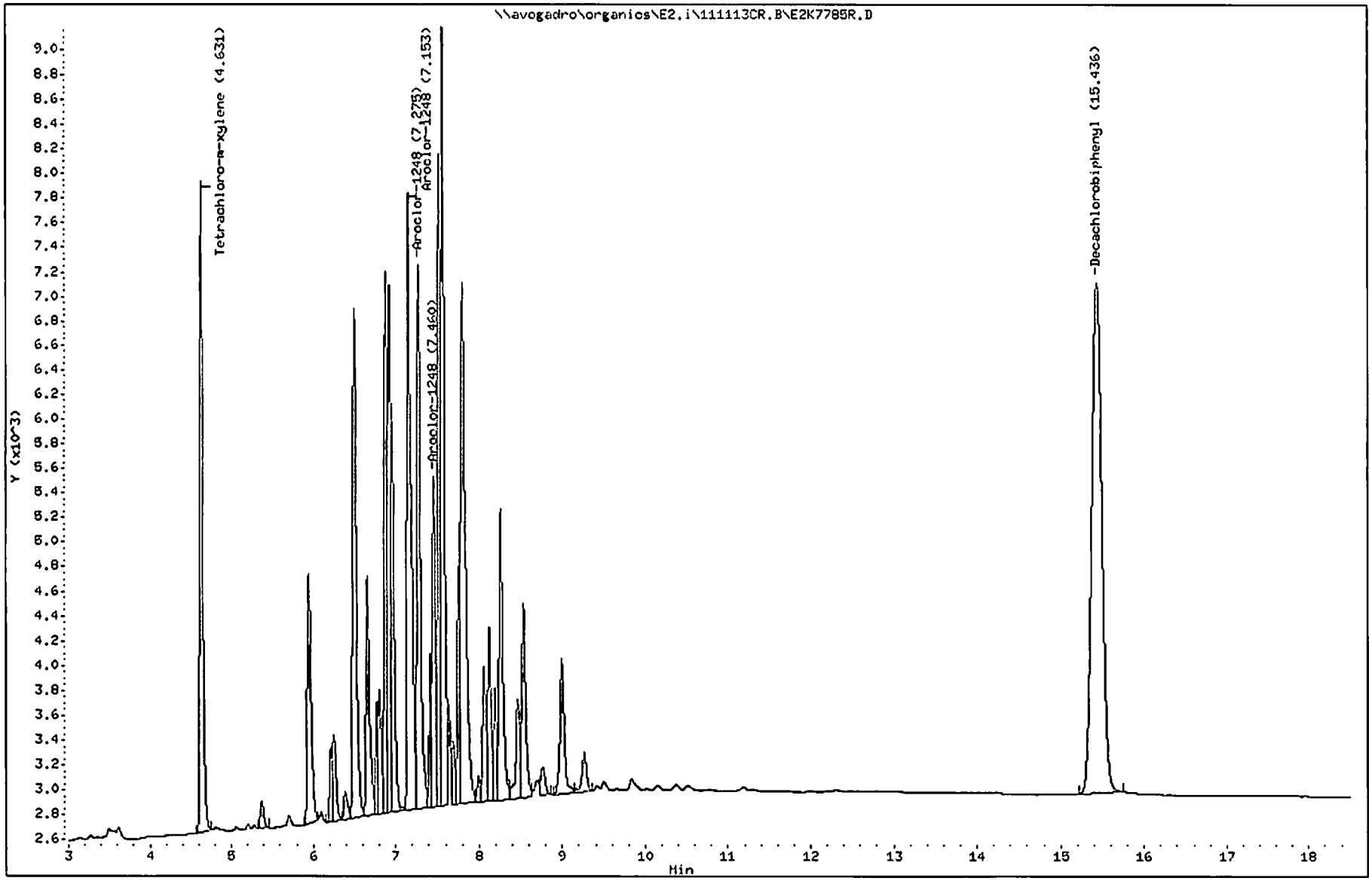
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7785R.D
Date : 13-NOV-2011 21:29
Client ID: AR12482K2
Sample Info: AR12482K2,AR12482K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7786F.D
Report Date: 17-Nov-2011 11:07

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7786F.D
Lab Smp Id: AR12483K2 Client Smp ID: AR12483K2
Inj Date : 13-NOV-2011 21:50
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12483K2,AR12483K2,,ar1248.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805F.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

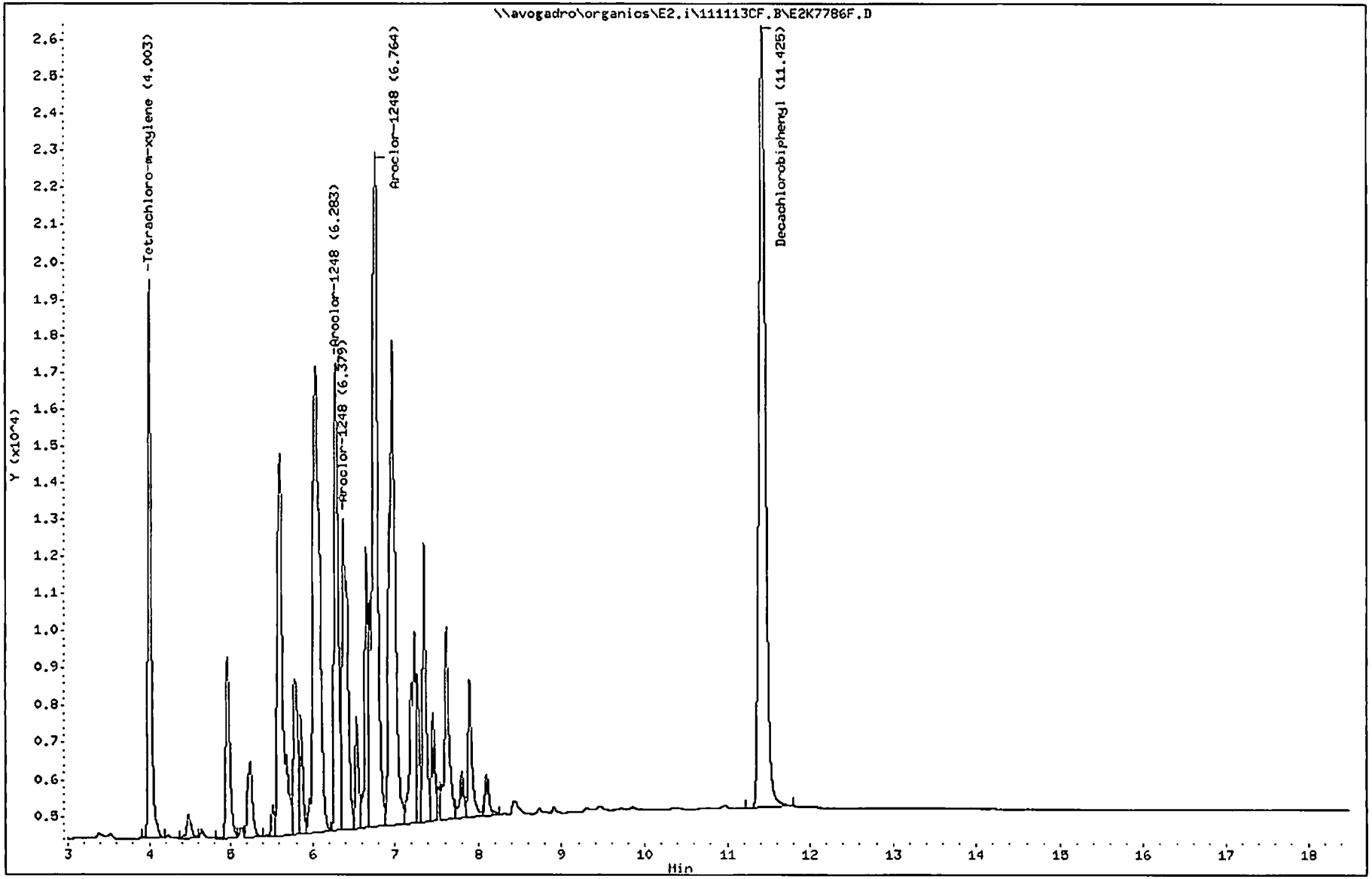
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	395769	0.02000	0.020			(a)
7 Aroclor-1248					CAS #: 12672-29-6			
6.283	6.282	0.001	433598	0.40000	0.40	80.00- 120.00	100.00	(a)
6.379	6.378	0.001	399604	0.40000	0.39	72.61- 112.61	92.16	
6.763	6.763	0.000	904252	0.40000	0.43	165.48- 205.48	208.55	
Average of Peak Amounts =					0.40667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.425	11.422	0.003	1143315	0.04000	0.040			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7786F.D
Date : 13-NOV-2011 21:50
Client ID: AR12483K2
Sample Info: AR12483K2,AR12483K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7786R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7786R.D
Lab Smp Id: AR12483K2 Client Smp ID: AR12483K2
Inj Date : 13-NOV-2011 21:50
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12483K2,AR12483K2,,ar1248.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805R.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

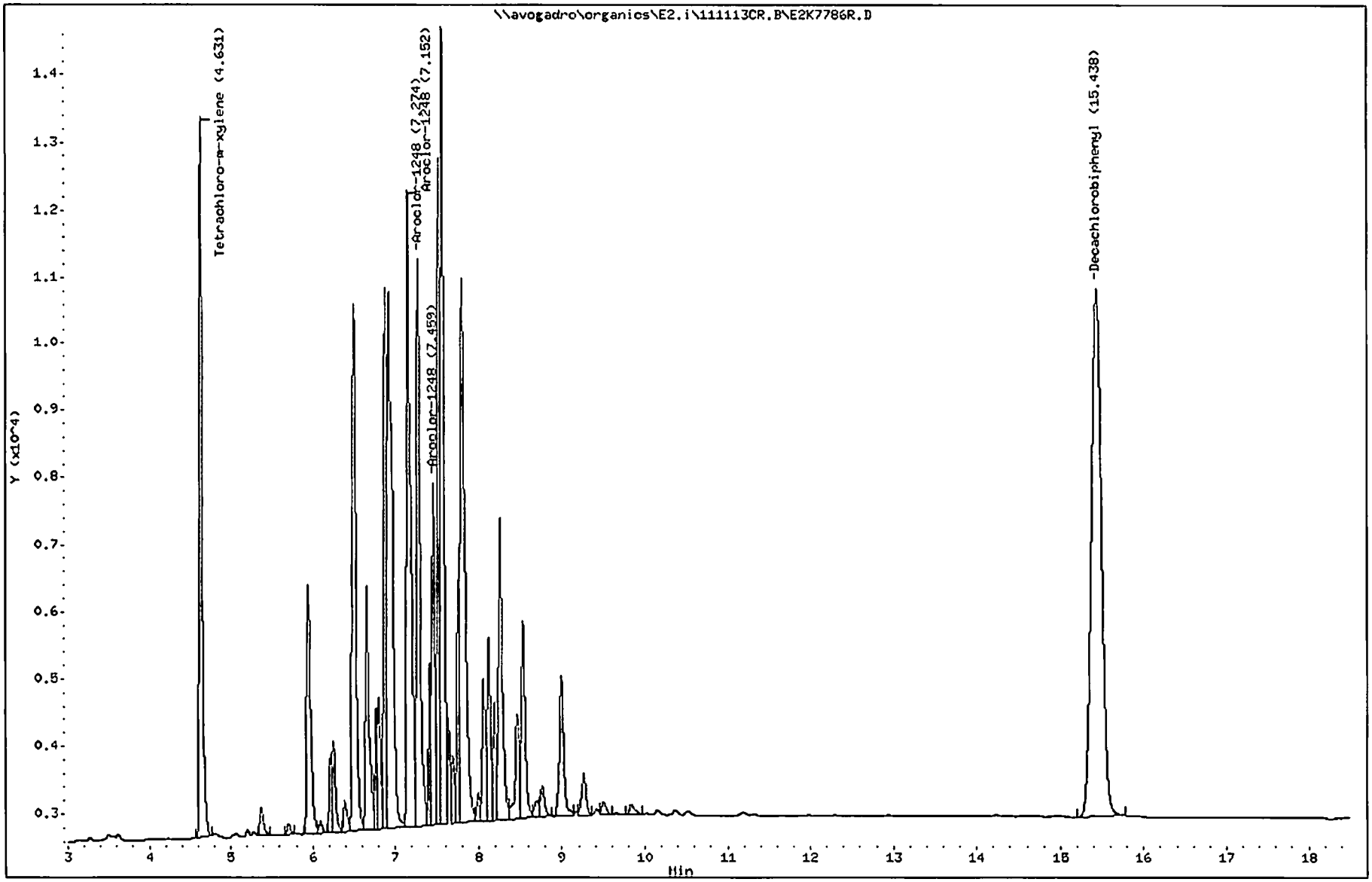
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.630	4.629	0.001	256227	0.02000	0.020			(a)
5 Aroclor-1248					CAS #: 12672-29-6			
7.152	7.150	0.002	312738	0.40000	0.40	80.00- 120.00	100.00	(a)
7.274	7.272	0.002	249056	0.40000	0.40	60.19- 100.19	79.64	
7.459	7.457	0.002	119021	0.40000	0.39	18.95- 58.95	38.06	
Average of Peak Amounts =					0.39667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.437	15.432	0.005	666234	0.04000	0.040			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7786R.D
Date : 13-NOV-2011 21:50
Client ID: AR12483K2
Sample Info: AR12483K2,AR12483K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7787F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7787F.D
Lab Smp Id: AR12484K2 Client Smp ID: AR12484K2
Inj Date : 13-NOV-2011 22:11
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12484K2,AR12484K2,,ar1248.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806F.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

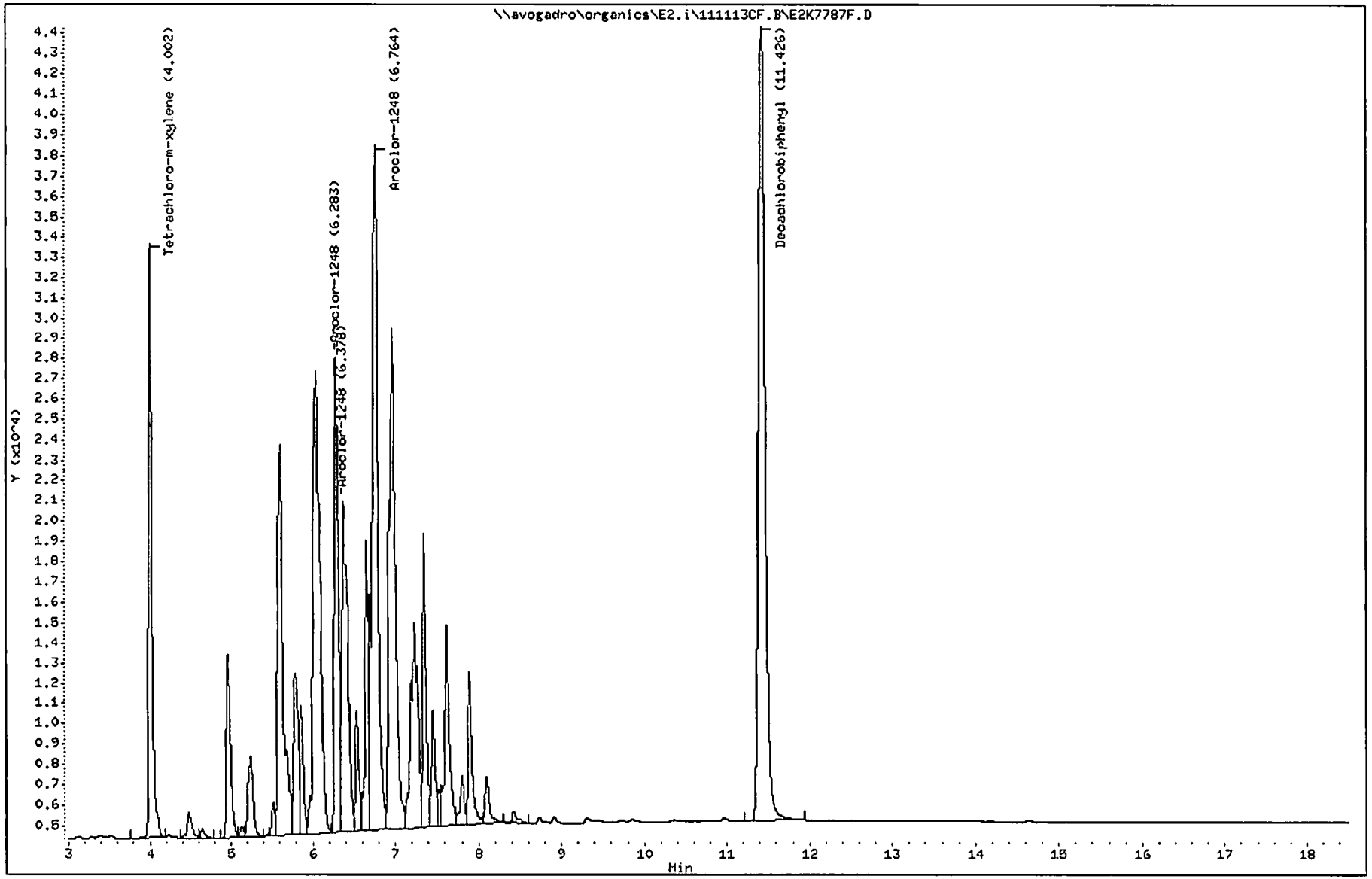
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.002	4.001	0.001	804264	0.04000	0.040			(a)
7 Aroclor-1248					CAS #: 12672-29-6			
6.282	6.282	0.000	815380	0.80000	0.75	80.00- 120.00	100.00	(a)
6.378	6.378	0.000	783951	0.80000	0.77	72.61- 112.61	96.15	
6.763	6.763	0.000	1703950	0.80000	0.81	165.48- 205.48	208.98	
Average of Peak Amounts =					0.77667			
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.425	11.422	0.003	2182310	0.08000	0.076			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7787F.D
Date : 13-NOV-2011 22:11
Client ID: AR12484K2
Sample Info: AR12484K2,AR12484K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7787R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7787R.D
Lab Smp Id: AR12484K2 Client Smp ID: AR12484K2
Inj Date : 13-NOV-2011 22:11
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12484K2,AR12484K2,,ar1248.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806R.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

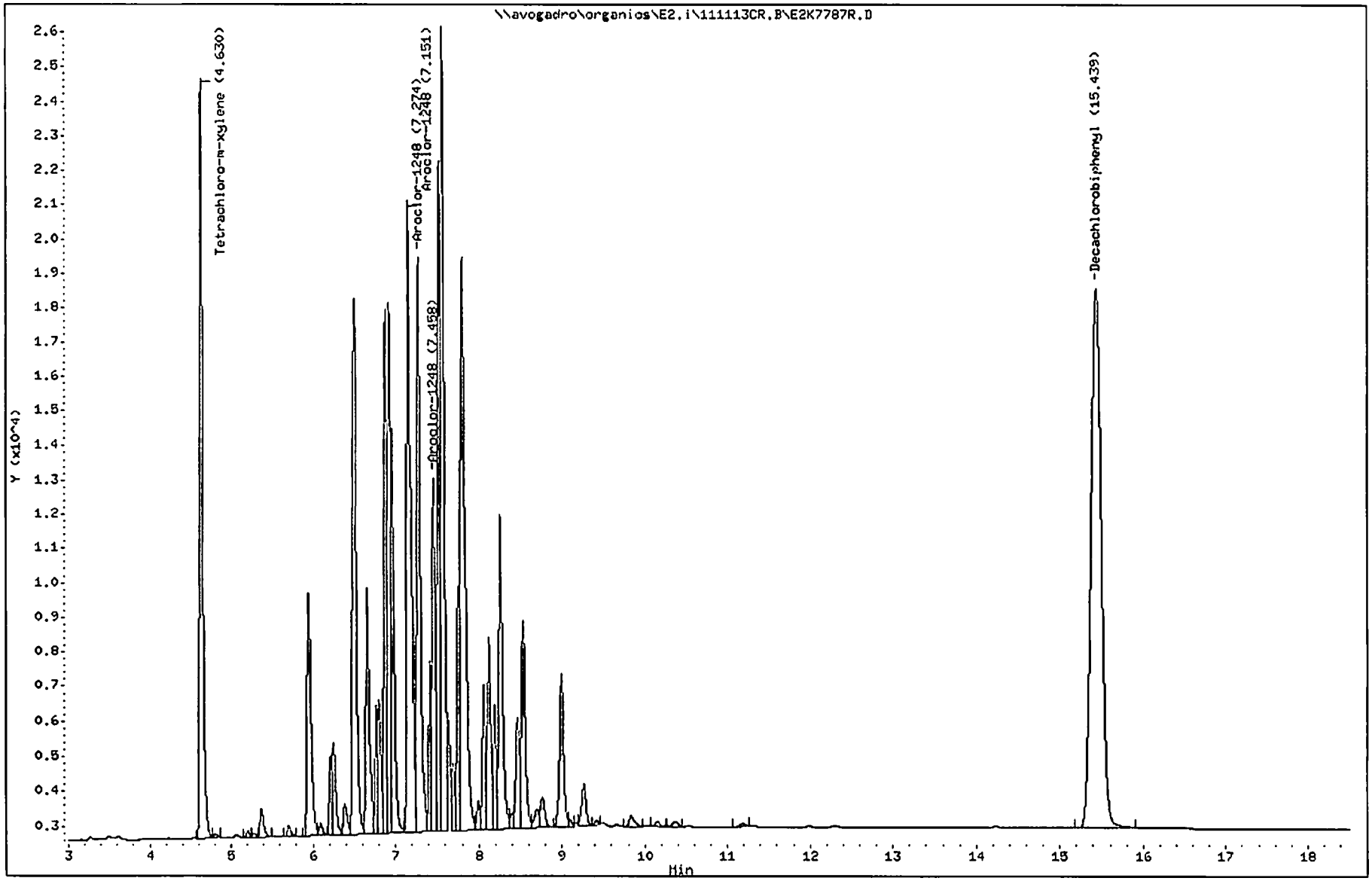
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.630	4.629	0.001	546100	0.04000	0.042			(a)
5 Aroclor-1248					CAS #: 12672-29-6			
7.151	7.150	0.001	616761	0.80000	0.79	80.00- 120.00	100.00	(a)
7.273	7.272	0.001	500578	0.80000	0.80	60.19- 100.19	81.16	
7.458	7.457	0.001	240005	0.80000	0.79	18.95- 58.95	38.91	
Average of Peak Amounts =					0.79333			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.438	15.432	0.006	1335633	0.08000	0.079			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7787R.D
Date : 13-NOV-2011 22:11
Client ID: AR12484K2
Sample Info: AR12484K2,AR12484K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7788F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7788F.D
Lab Smp Id: AR12485K2 Client Smp ID: AR12485K2
Inj Date : 13-NOV-2011 22:32
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12485K2,AR12485K2,,ar1248.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.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

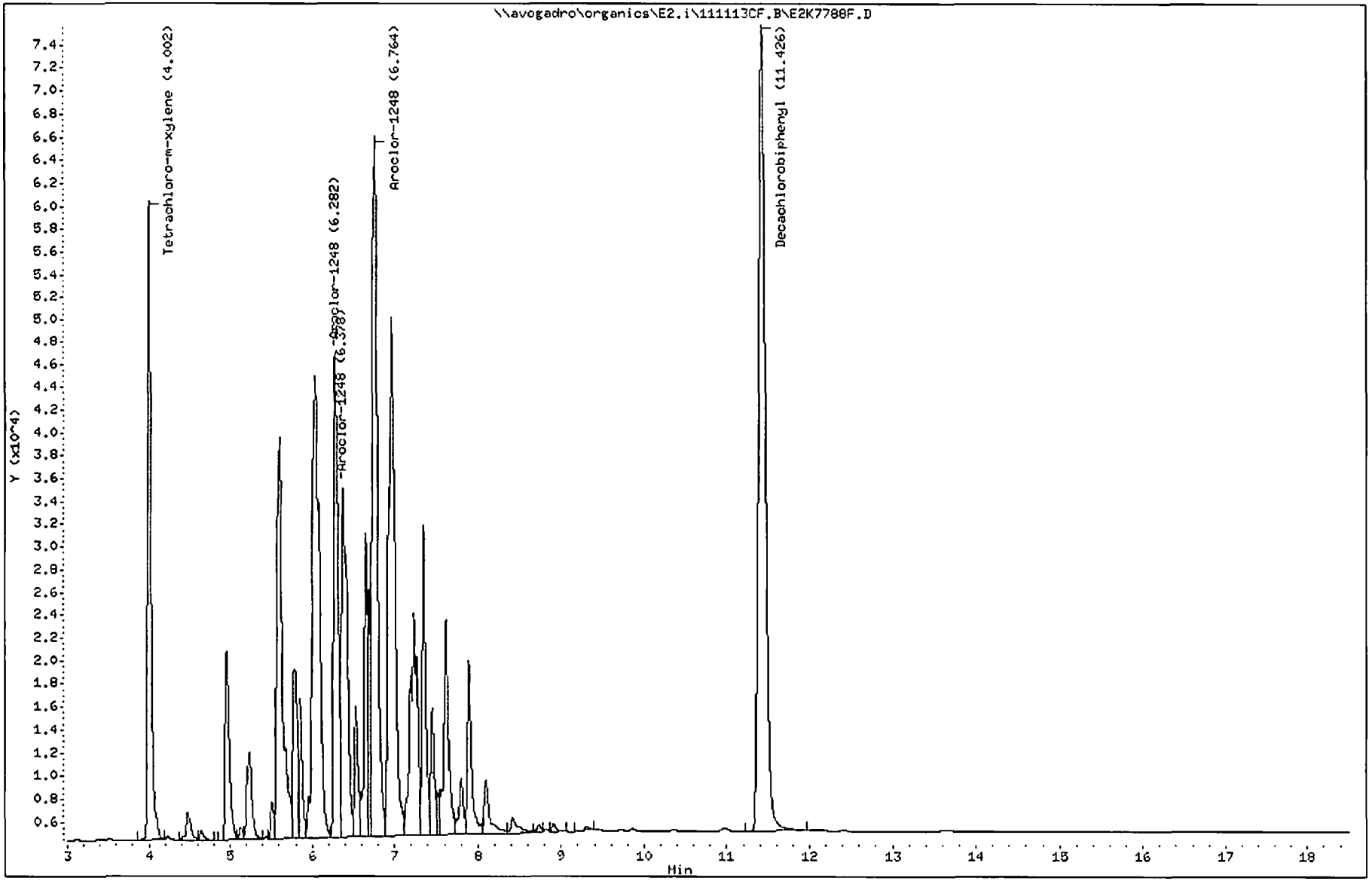
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.002	4.001	0.001	1579236	0.08000	0.080		
7 Aroclor-1248					CAS #: 12672-29-6		
6.282	6.282	0.000	1491996	1.60000	1.4	80.00- 120.00	100.00
6.378	6.378	0.000	1498950	1.60000	1.5	72.61- 112.61	100.47
6.763	6.763	0.000	2752982	1.60000	1.3	165.48- 205.48	184.52
Average of Peak Amounts =					1.40000		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.426	11.422	0.004	4004178	0.16000	0.14		

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7788F.D
Date : 13-NOV-2011 22:32
Client ID: AR12485K2
Sample Info: AR12485K2,AR12485K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7788R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7788R.D
Lab Smp Id: AR12485K2 Client Smp ID: AR12485K2
Inj Date : 13-NOV-2011 22:32
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12485K2,AR12485K2,,ar1248.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.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

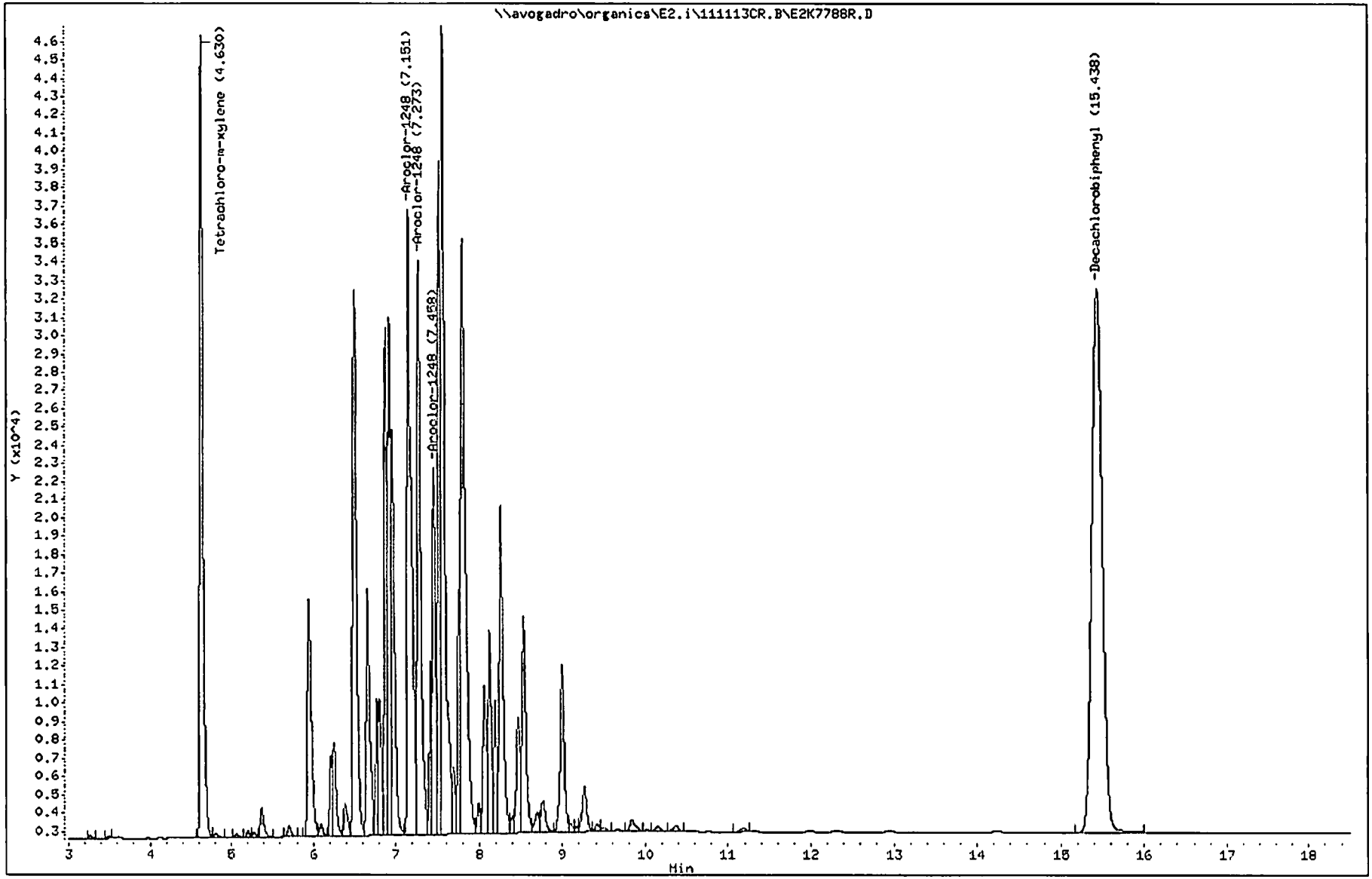
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.629	4.629	0.000	1123168	0.08000	0.087		
5 Aroclor-1248					CAS #: 12672-29-6		
7.150	7.150	0.000	1170755	1.60000	1.5	80.00- 120.00	100.00
7.272	7.272	0.000	972513	1.60000	1.6	60.19- 100.19	83.07
7.457	7.457	0.000	471852	1.60000	1.6	18.95- 58.95	40.30
Average of Peak Amounts =					1.56667		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.437	15.432	0.005	2583493	0.16000	0.15		

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7788R.D
Date : 13-NOV-2011 22:32
Client ID: AR12485K2
Sample Info: AR12485K2,AR12485K2,,ar1248.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7789F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7789F.D
Lab Smp Id: AR12541K2 Client Smp ID: AR12541K2
Inj Date : 13-NOV-2011 22:52
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12541K2,AR12541K2,,ar1254.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802F.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: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

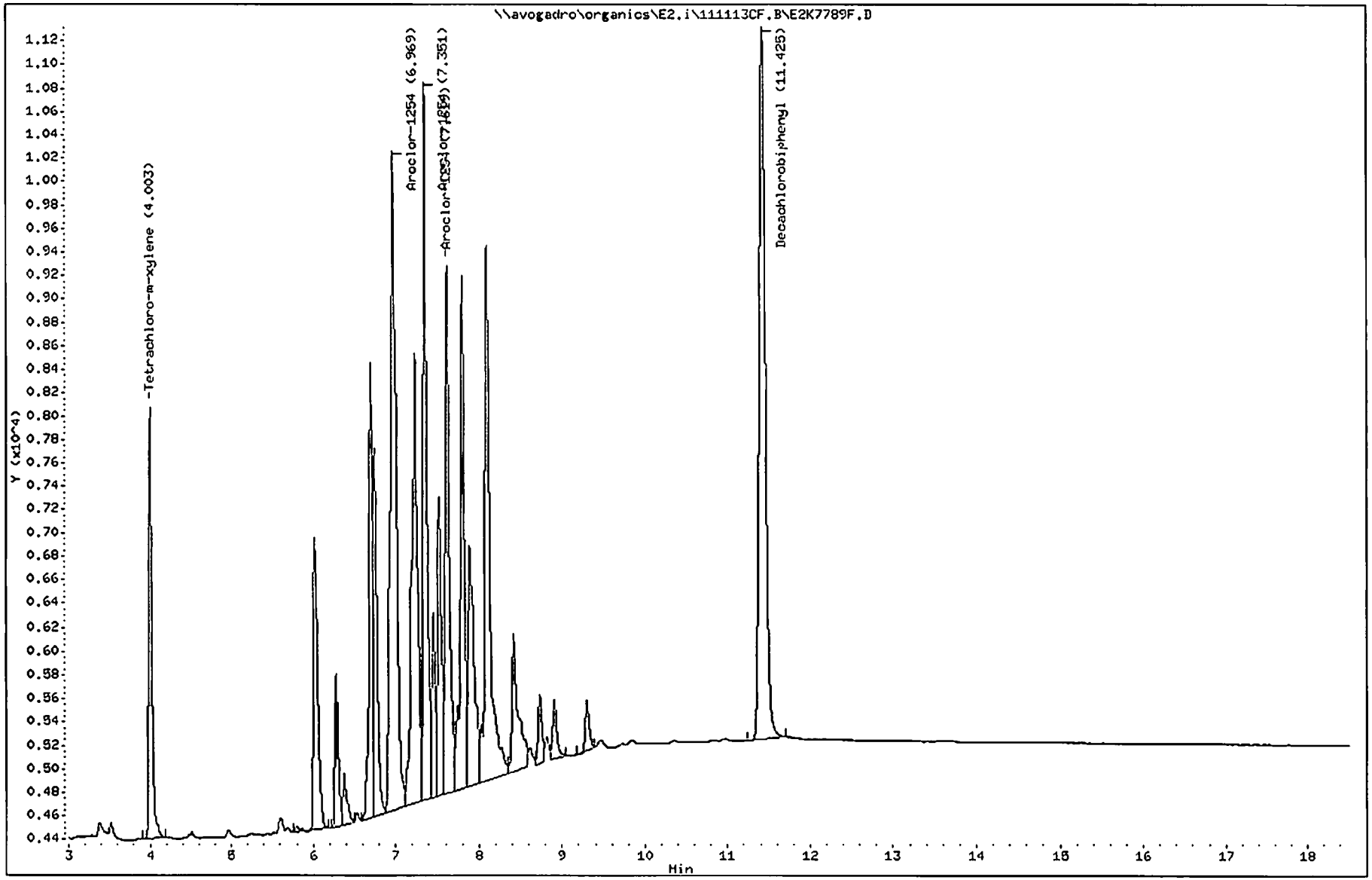
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	95255	0.00500	0.0048			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.424	11.422	0.002	311911	0.01000	0.011			(a)
8 Aroclor-1254					CAS #: 11097-69-1			
6.968	6.965	0.003	271387	0.10000	0.11	80.00- 120.00	100.00	(a)
7.350	7.347	0.003	180564	0.10000	0.11	49.74- 89.74	66.53	
7.619	7.616	0.003	150698	0.10000	0.11	37.50- 77.50	55.53	
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\111113CF.B\E2K7789F.D
Date : 13-NOV-2011 22:52
Client ID: AR12541K2
Sample Info: AR12541K2,AR12541K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7789R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7789R.D
Lab Smp Id: AR12541K2 Client Smp ID: AR12541K2
Inj Date : 13-NOV-2011 22:52
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12541K2,AR12541K2,,ar1254.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802R.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: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

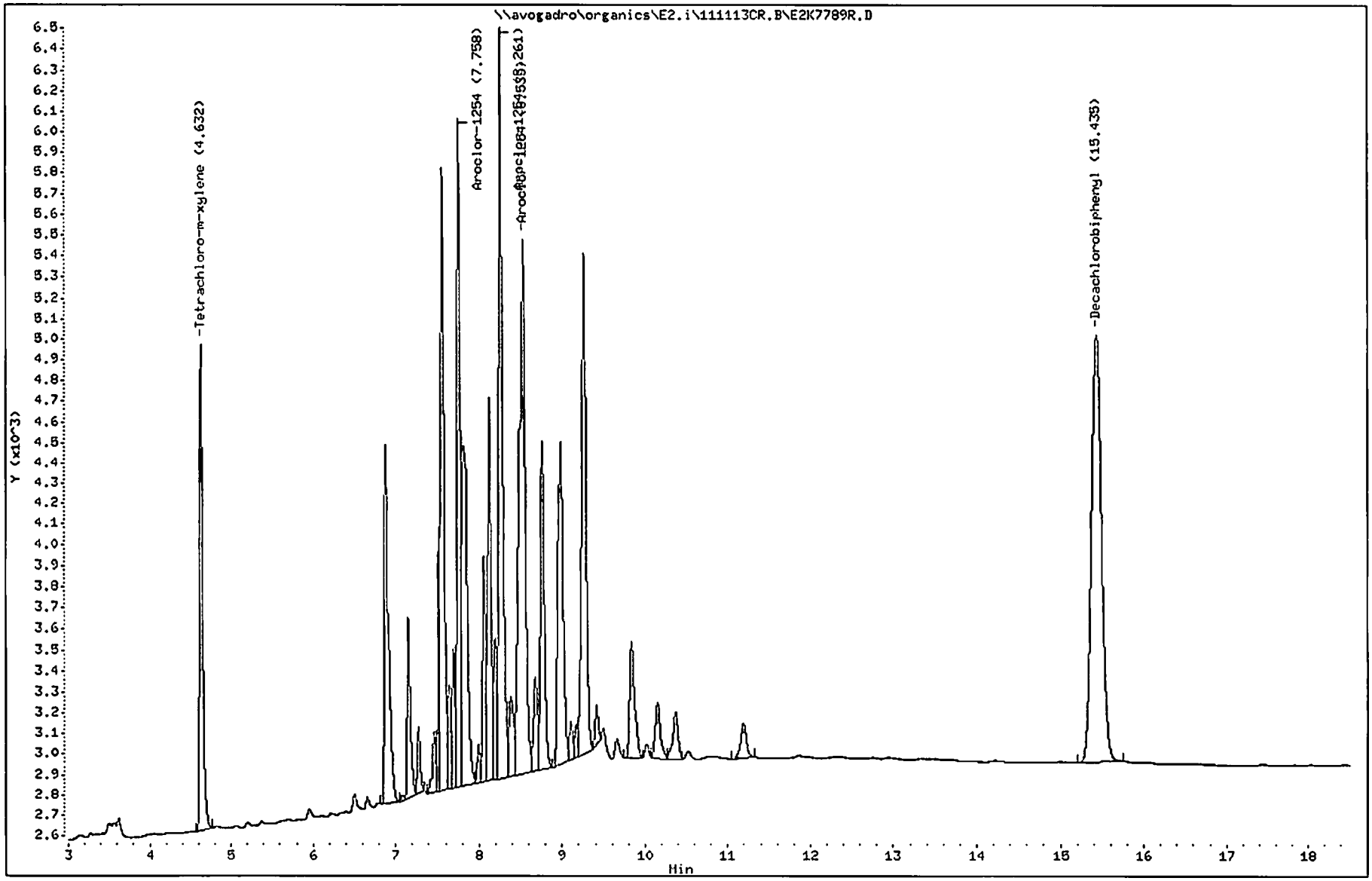
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	58286	0.00500	0.0045			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.435	15.432	0.003	172522	0.01000	0.010			(a)
7 Aroclor-1254					CAS #: 11097-69-1			
7.758	7.754	0.004	83398	0.10000	0.11	80.00- 120.00	100.00	(a)
8.261	8.258	0.003	111861	0.10000	0.100	127.94- 167.94	134.13	
8.534	8.531	0.003	127989	0.10000	0.11	147.62- 187.62	153.47	
		Average of Peak Amounts =			0.10667			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7789R.D
Date : 13-NOV-2011 22:52
Client ID: AR12541K2
Sample Info: AR12541K2,AR12541K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7791F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7791F.D
Lab Smp Id: AR12542K2 Client Smp ID: AR12542K2
Inj Date : 13-NOV-2011 23:34
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12542K2,AR12542K2,,ar1254.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804F.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: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	205025	0.01000	0.010			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	638363	0.02000	0.022			(a)
8 Aroclor-1254					CAS #: 11097-69-1			
6.968	6.965	0.003	516949	0.20000	0.22	80.00- 120.00	100.00	(a)
7.350	7.347	0.003	350200	0.20000	0.21	49.74- 89.74	67.74	
7.618	7.616	0.002	288287	0.20000	0.21	37.50- 77.50	55.77	
Average of Peak Amounts =					0.21333			

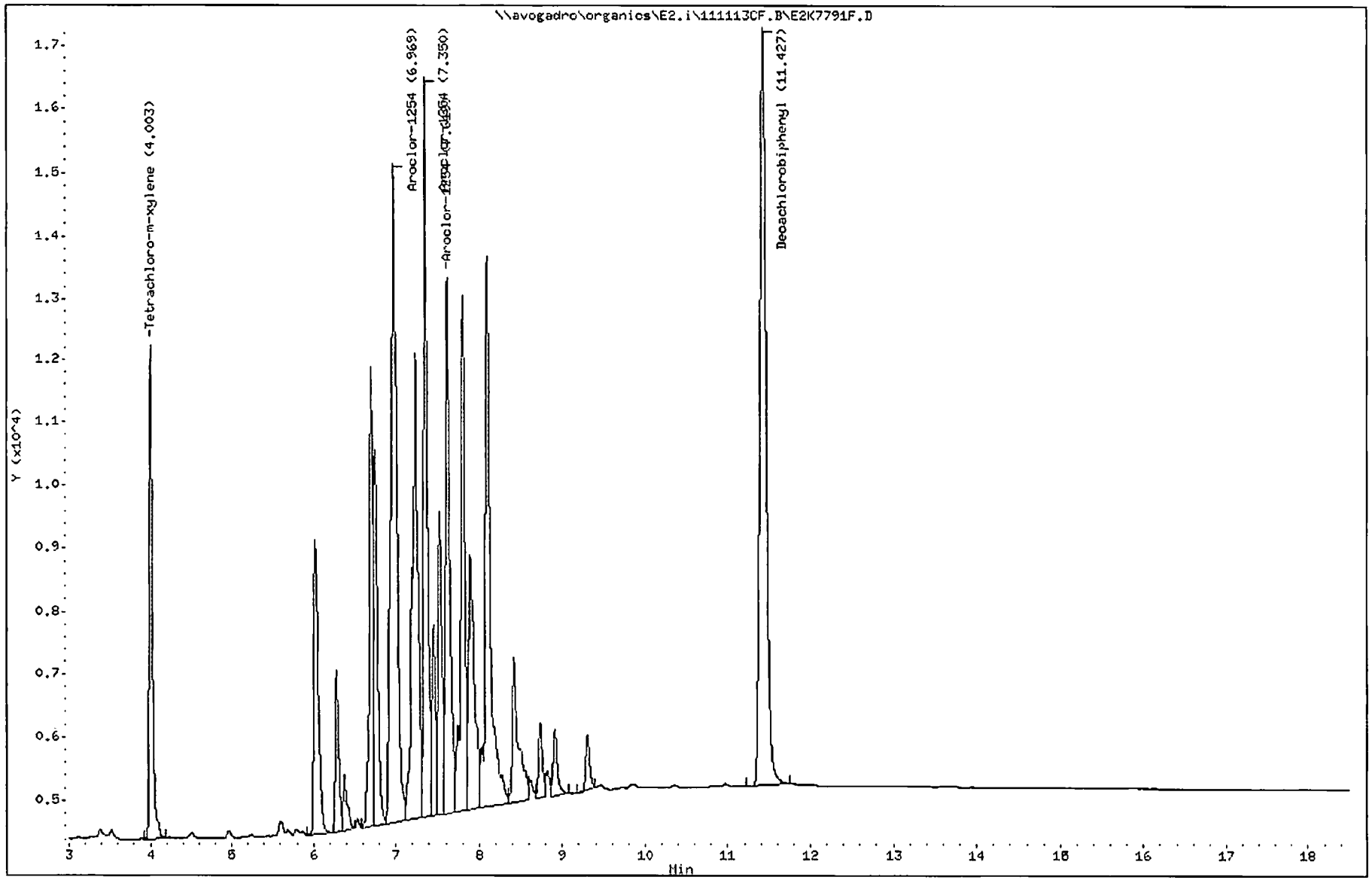
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7791F.D
Date : 13-NOV-2011 23:34
Client ID: AR12542K2
Sample Info: AR12542K2,AR12542K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7791R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7791R.D
Lab Smp Id: AR12542K2 Client Smp ID: AR12542K2
Inj Date : 13-NOV-2011 23:34
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12542K2,AR12542K2,,ar1254.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804R.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: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	128490	0.01000	0.0099			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.438	15.432	0.006	361725	0.02000	0.021			(a)
7 Aroclor-1254					CAS #: 11097-69-1			
7.757	7.754	0.003	164119	0.20000	0.21	80.00- 120.00	100.00	(a)
8.260	8.258	0.002	229753	0.20000	0.20	127.94- 167.94	139.99	
8.533	8.531	0.002	260440	0.20000	0.22	147.62- 187.62	158.69	

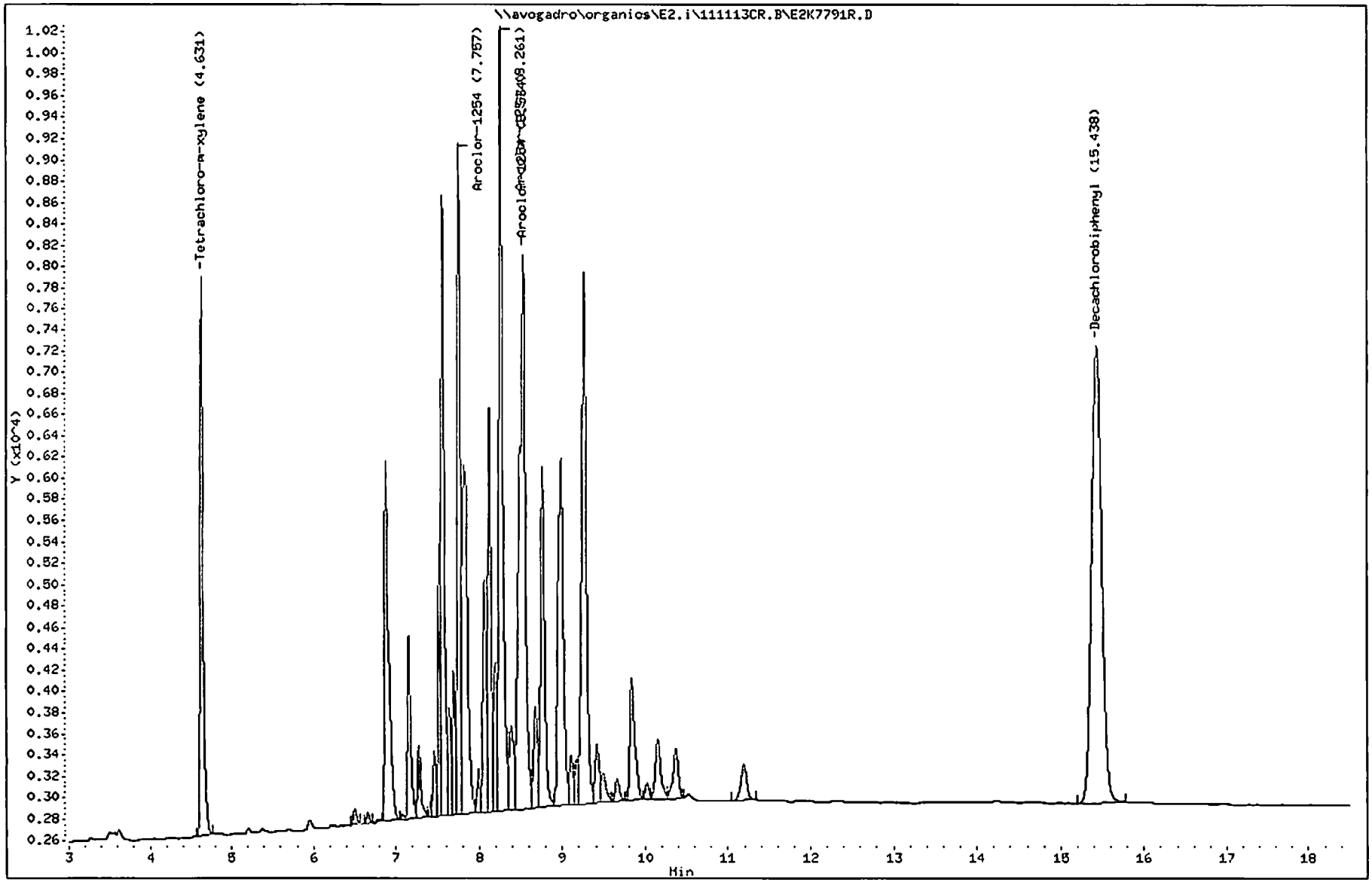
Average of Peak Amounts = 0.21000

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7791R.D
Date : 13-NOV-2011 23:34
Client ID: AR12542K2
Sample Info: AR12542K2,AR12542K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7792F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7792F.D
Lab Smp Id: AR12543K2 Client Smp ID: AR12543K2
Inj Date : 13-NOV-2011 23:56
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12543K2,AR12543K2,,ar1254.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805F.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	394941	0.02000	0.020			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	1159070	0.04000	0.040			(a)
8 Aroclor-1254					CAS #: 11097-69-1			
6.967	6.965	0.002	949840	0.40000	0.40	80.00- 120.00	100.00	(a)
7.349	7.347	0.002	661625	0.40000	0.40	49.74- 89.74	69.66	
7.617	7.616	0.001	538338	0.40000	0.40	37.50- 77.50	56.68	

Average of Peak Amounts = 0.40000

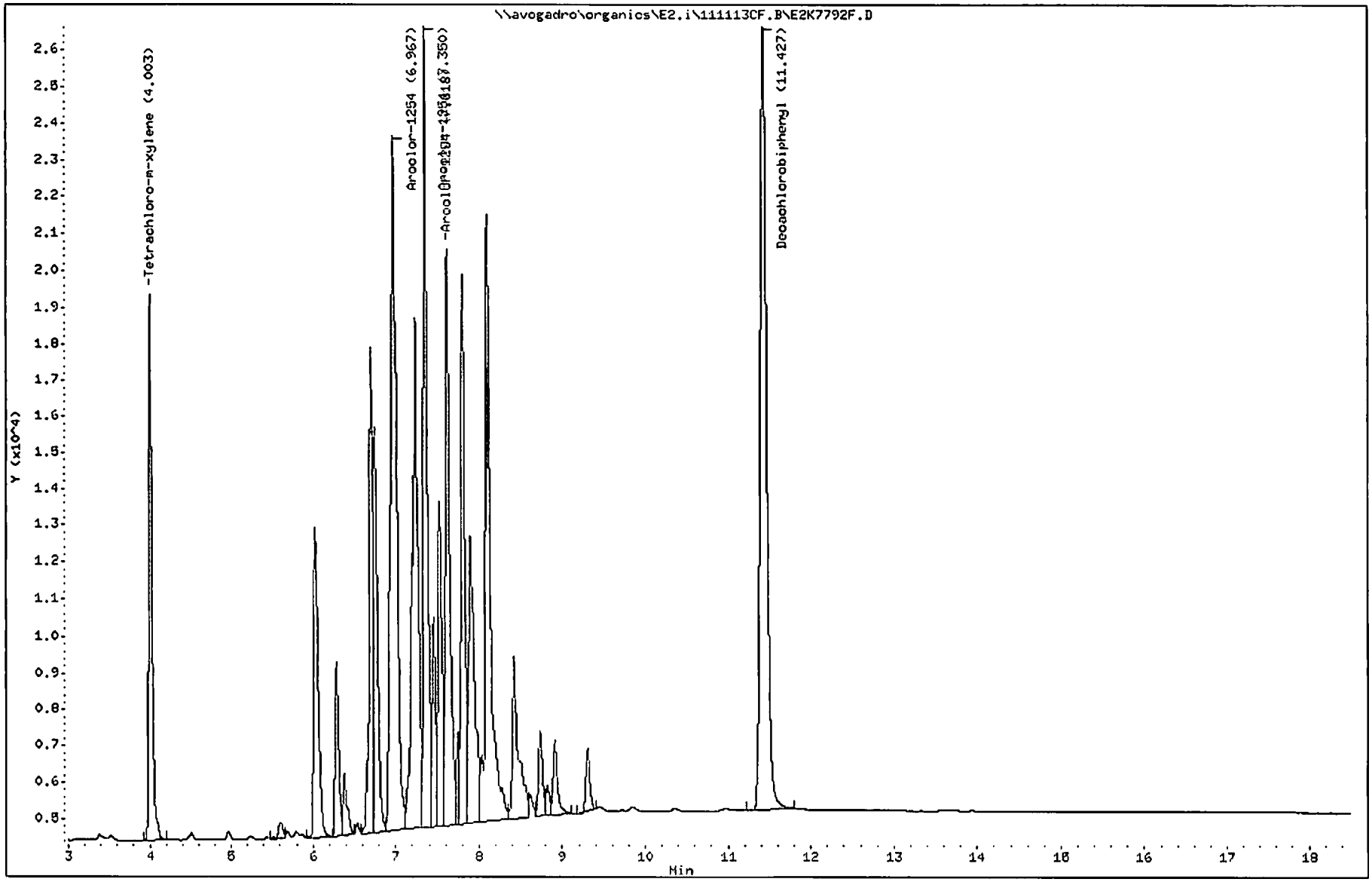
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7792F.D
Date : 13-NOV-2011 23:56
Client ID: AR12543K2
Sample Info: AR12543K2,AR12543K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7792R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7792R.D
Lab Smp Id: AR12543K2 Client Smp ID: AR12543K2
Inj Date : 13-NOV-2011 23:56
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12543K2,AR12543K2,,ar1254.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805R.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.630	4.629	0.001	256431	0.02000	0.020			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.439	15.432	0.007	677071	0.04000	0.040			(a)
7 Aroclor-1254					CAS #: 11097-69-1			
7.756	7.754	0.002	308735	0.40000	0.40	80.00- 120.00	100.00	(a)
8.260	8.258	0.002	452132	0.40000	0.40	127.94- 167.94	146.45	
8.533	8.531	0.002	508987	0.40000	0.43	147.62- 187.62	164.86	

Average of Peak Amounts = 0.41000

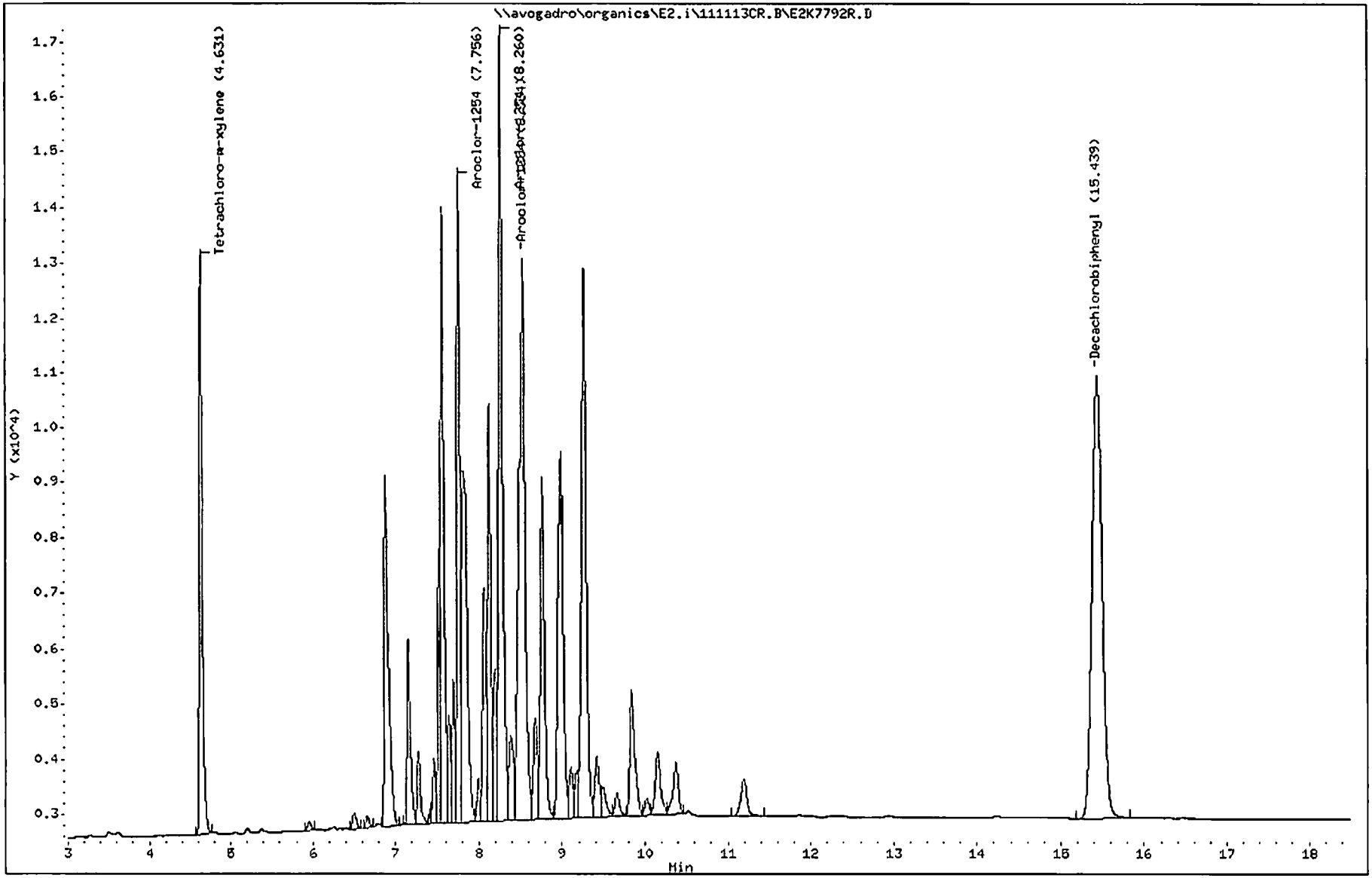
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7792R.D
Date : 13-NOV-2011 23:56
Client ID: AR12543K2
Sample Info: AR12543K2,AR12543K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7793F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7793F.D
Lab Smp Id: AR12544K2 Client Smp ID: AR12544K2
Inj Date : 14-NOV-2011 00:16
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12544K2,AR12544K2,,ar1254.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806F.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.002	4.001	0.001	788501	0.04000	0.040			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	2164077	0.08000	0.075			
8 Aroclor-1254					CAS #: 11097-69-1			
6.966	6.965	0.001	1745915	0.80000	0.74	80.00- 120.00	100.00	(a)
7.349	7.347	0.002	1246403	0.80000	0.76	49.74- 89.74	71.39	
7.617	7.616	0.001	1007846	0.80000	0.75	37.50- 77.50	57.73	
Average of Peak Amounts =					0.75000			

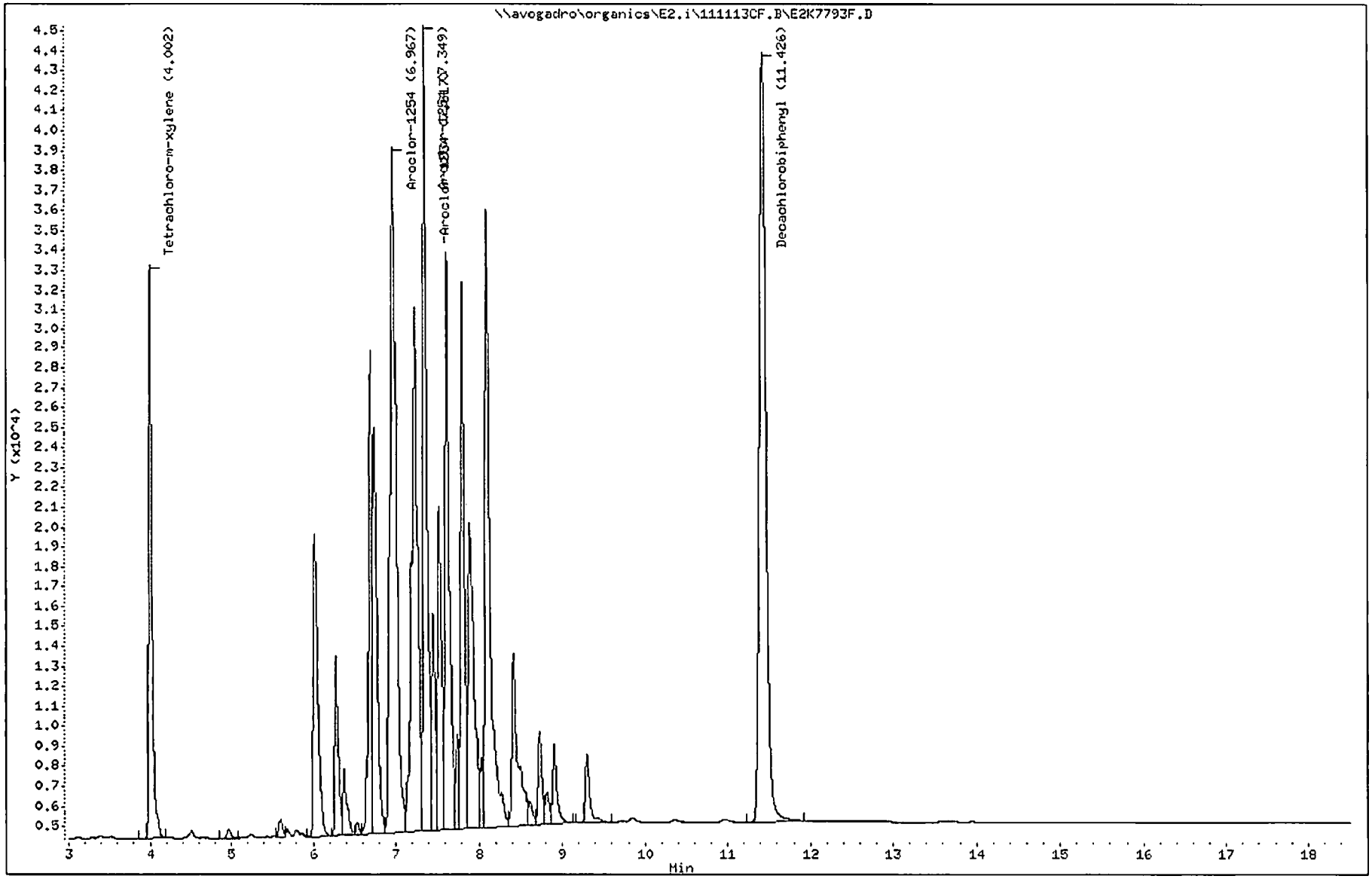
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7793F.D
Date : 14-NOV-2011 00:16
Client ID: AR12544K2
Sample Info: AR12544K2,AR12544K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7793R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7793R.D
Lab Smp Id: AR12544K2 Client Smp ID: AR12544K2
Inj Date : 14-NOV-2011 00:16
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12544K2,AR12544K2,,ar1254.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806R.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

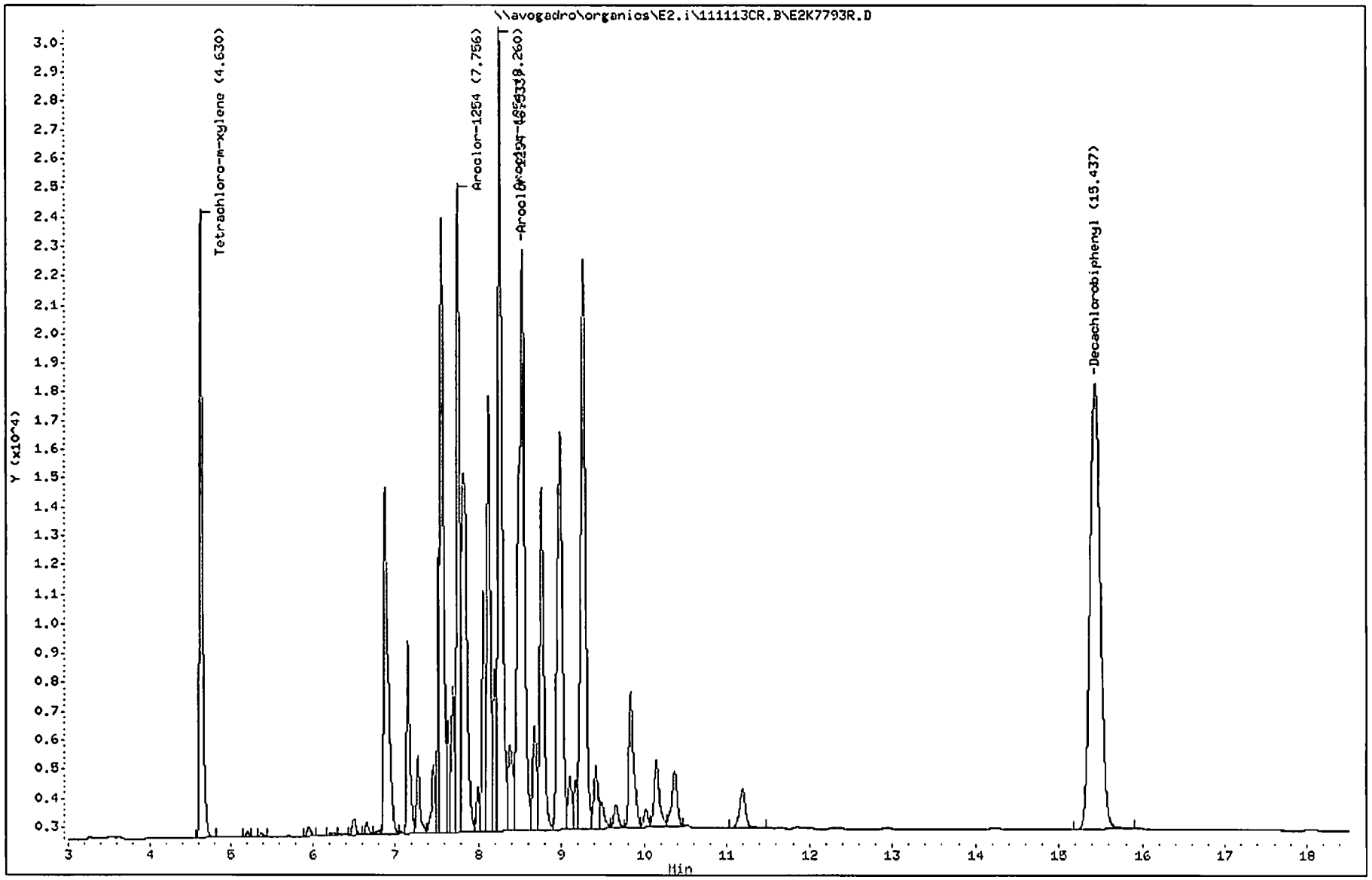
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.630	4.629	0.001	535748	0.04000	0.041			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.437	15.432	0.005	1324222	0.08000	0.078			
7 Aroclor-1254					CAS #: 11097-69-1			
7.755	7.754	0.001	581718	0.80000	0.76	80.00- 120.00	100.00	(a)
8.259	8.258	0.001	893526	0.80000	0.80	127.94- 167.94	153.60	
8.532	8.531	0.001	1000495	0.80000	0.84	147.62- 187.62	171.99	
Average of Peak Amounts =					0.80000			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7793R.D
Date : 14-NOV-2011 00:16
Client ID: AR12544K2
Sample Info: AR12544K2,AR12544K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7794F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7794F.D
Lab Smp Id: AR12545K2 Client Smp ID: AR12545K2
Inj Date : 14-NOV-2011 00:37
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12545K2,AR12545K2,,ar1254.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.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

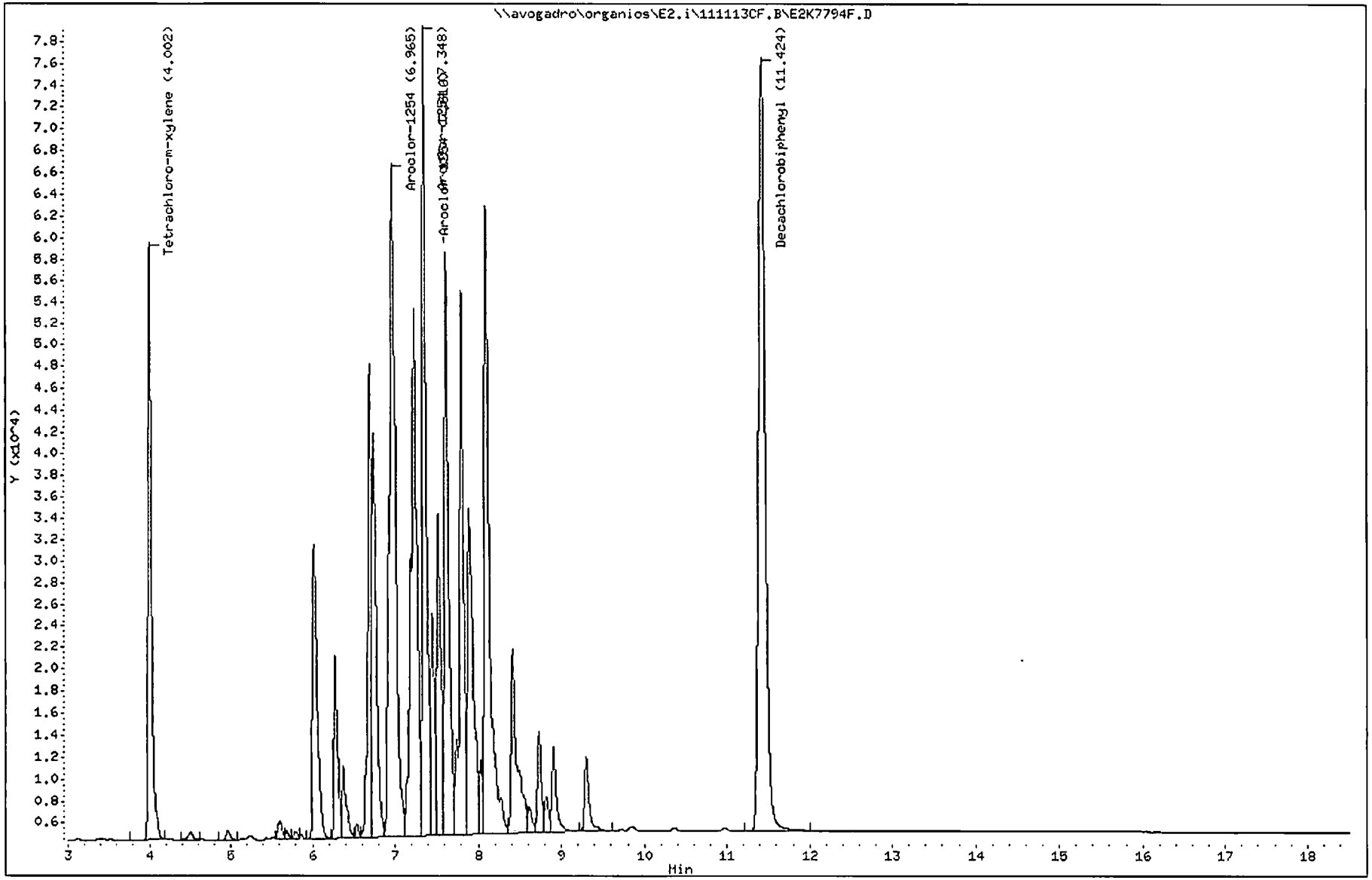
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.002	4.001	0.001	1573173	0.08000	0.080		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.424	11.422	0.002	4031822	0.16000	0.14		
8 Aroclor-1254					CAS #: 11097-69-1		
6.965	6.965	0.000	3175035	1.60000	1.3	80.00- 120.00	100.00
7.347	7.347	0.000	2322697	1.60000	1.4	49.74- 89.74	73.16
7.616	7.616	0.000	1851219	1.60000	1.4	37.50- 77.50	58.31
Average of Peak Amounts =					1.36667		

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7794F.D
Date : 14-NOV-2011 00:37
Client ID: AR12545K2
Sample Info: AR12545K2,AR12545K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7794R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7794R.D
Lab Smp Id: AR12545K2 Client Smp ID: AR12545K2
Inj Date : 14-NOV-2011 00:37
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12545K2,AR12545K2,,ar1254.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.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

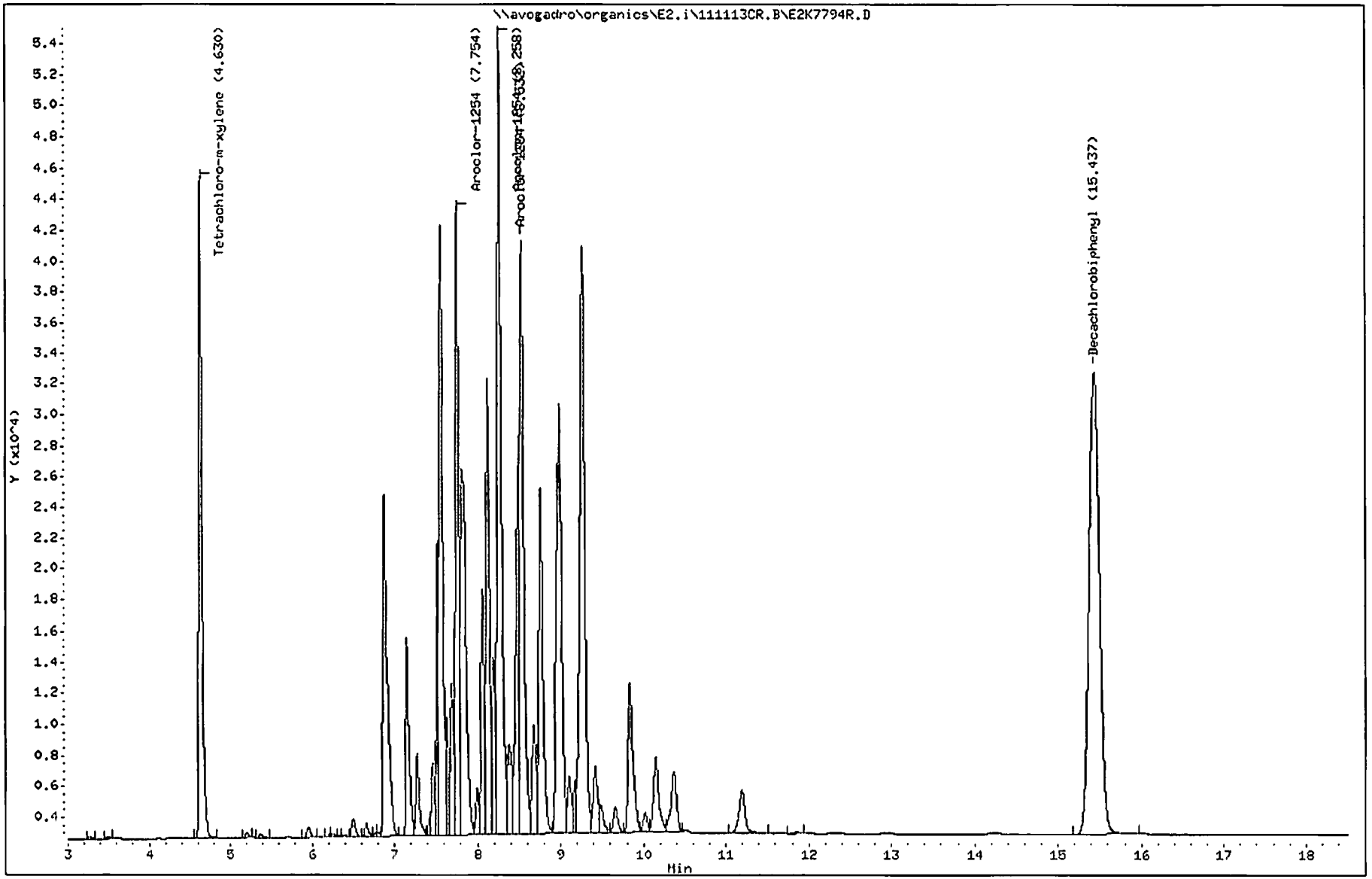
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.630	4.629	0.001	1120844	0.08000	0.086		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.436	15.432	0.004	2601581	0.16000	0.15		
7 Aroclor-1254					CAS #: 11097-69-1		
7.754	7.754	0.000	1077639	1.60000	1.4	80.00- 120.00	100.00
8.258	8.258	0.000	1730664	1.60000	1.5	127.94- 167.94	160.60
8.531	8.531	0.000	1333398	1.60000	1.1	147.62- 187.62	123.73
Average of Peak Amounts =					1.33333		

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7794R.D
Date : 14-NOV-2011 00:37
Client ID: AR12545K2
Sample Info: AR12545K2,AR12548K2,,ar1254.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7795F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7795F.D
Lab Smp Id: AR12623K2 Client Smp ID: AR12623K2
Inj Date : 14-NOV-2011 00:58
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12623K2,AR12623K2,,ar1262.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805F.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.002	4.001	0.001	388944	0.02000	0.020			(a)
2 Aroclor-1262					CAS #: 37324-23-5			
8.905	8.905	0.000	1202365	0.40000	0.40	80.00- 120.00	100.00	
9.352	9.352	0.000	809285	0.40000	0.40	47.31- 87.31	67.31	
9.370	9.870	0.000	198313	0.40000	0.40	0.00- 36.49	16.49	
Average of Peak Amounts =					0.40000			
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.425	11.422	0.003	1139476	0.04000	0.040			(a)

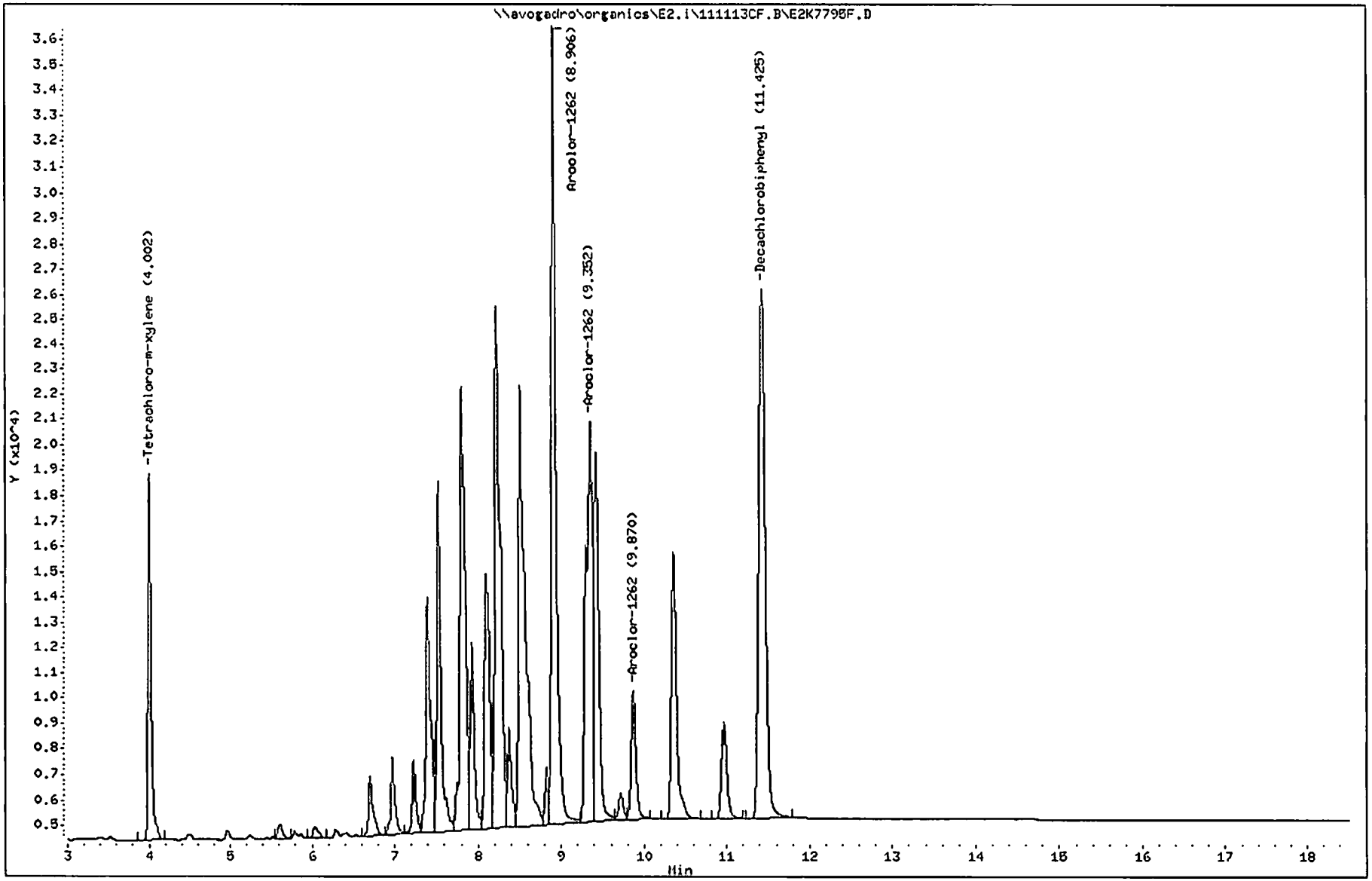
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7795F.D
Date : 14-NOV-2011 00:58
Client ID: AR12623K2
Sample Info: AR12623K2,AR12623K2,,ar1262.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7795R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7795R.D
Lab Smp Id: AR12623K2 Client Smp ID: AR12623K2
Inj Date : 14-NOV-2011 00:58
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12623K2,AR12623K2,,ar1262.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805R.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

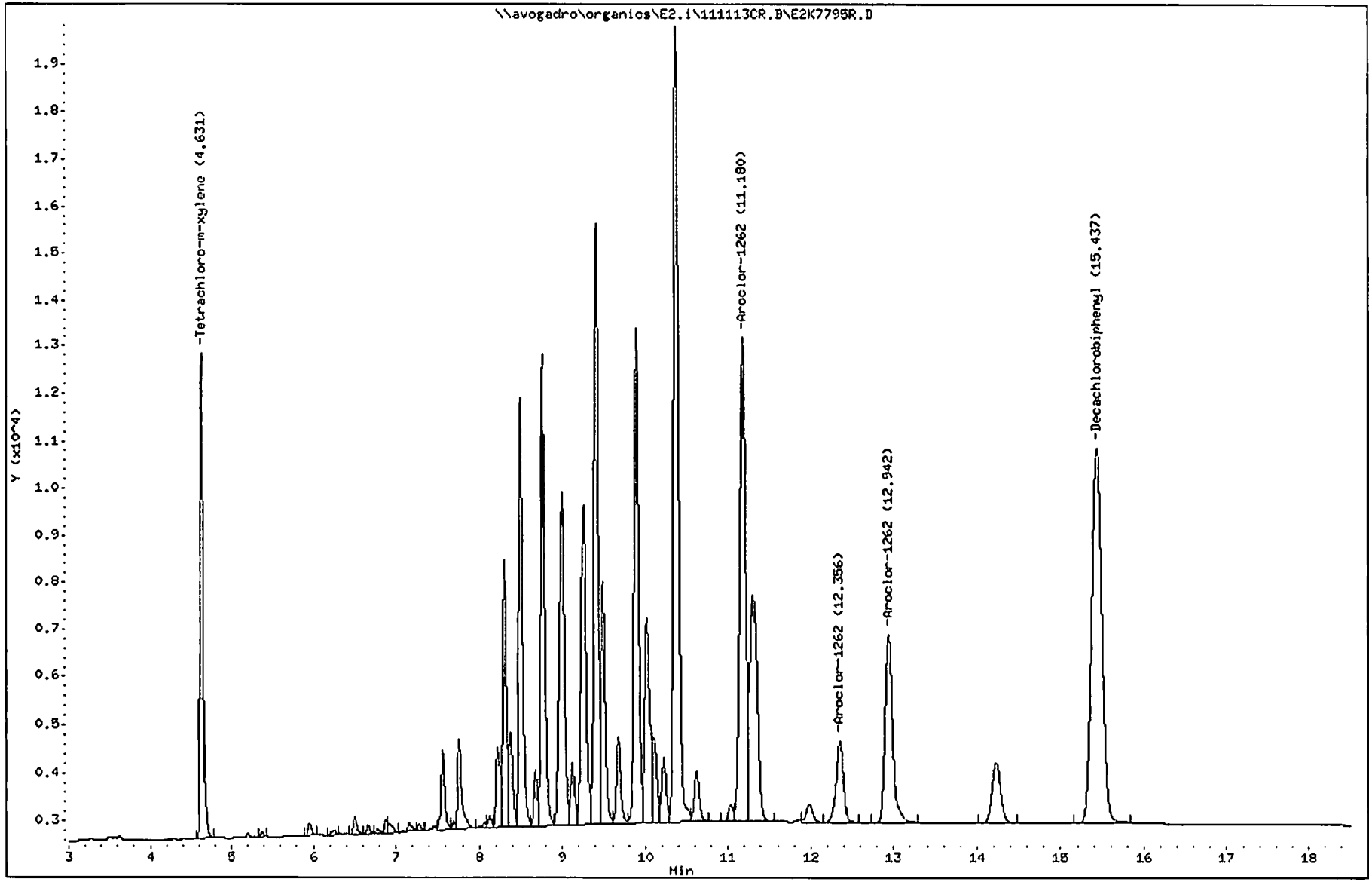
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.630	4.629	0.001	251618	0.02000	0.020			(a)
10 Aroclor-1262					CAS #: 37324-23-5			
11.180	11.180	0.000	507296	0.40000	0.40	80.00- 120.00	100.00	
12.355	12.355	0.000	102170	0.40000	0.40	0.14- 40.14	20.14	
12.941	12.941	0.000	244665	0.40000	0.40	28.23- 68.23	48.23	
Average of Peak Amounts =					0.40000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.436	15.432	0.004	666859	0.04000	0.039			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7795R.D
Date : 14-NOV-2011 00:58
Client ID: AR12623K2
Sample Info: AR12623K2,AR12623K2,,ar1262.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7796F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7796F.D
Lab Smp Id: AR12681K2 Client Smp ID: AR12681K2
Inj Date : 14-NOV-2011 01:19
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12681K2,AR12681K2,,ar1268.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802F.D
Als bottle: 29 Calibration Sample, Level: 1
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

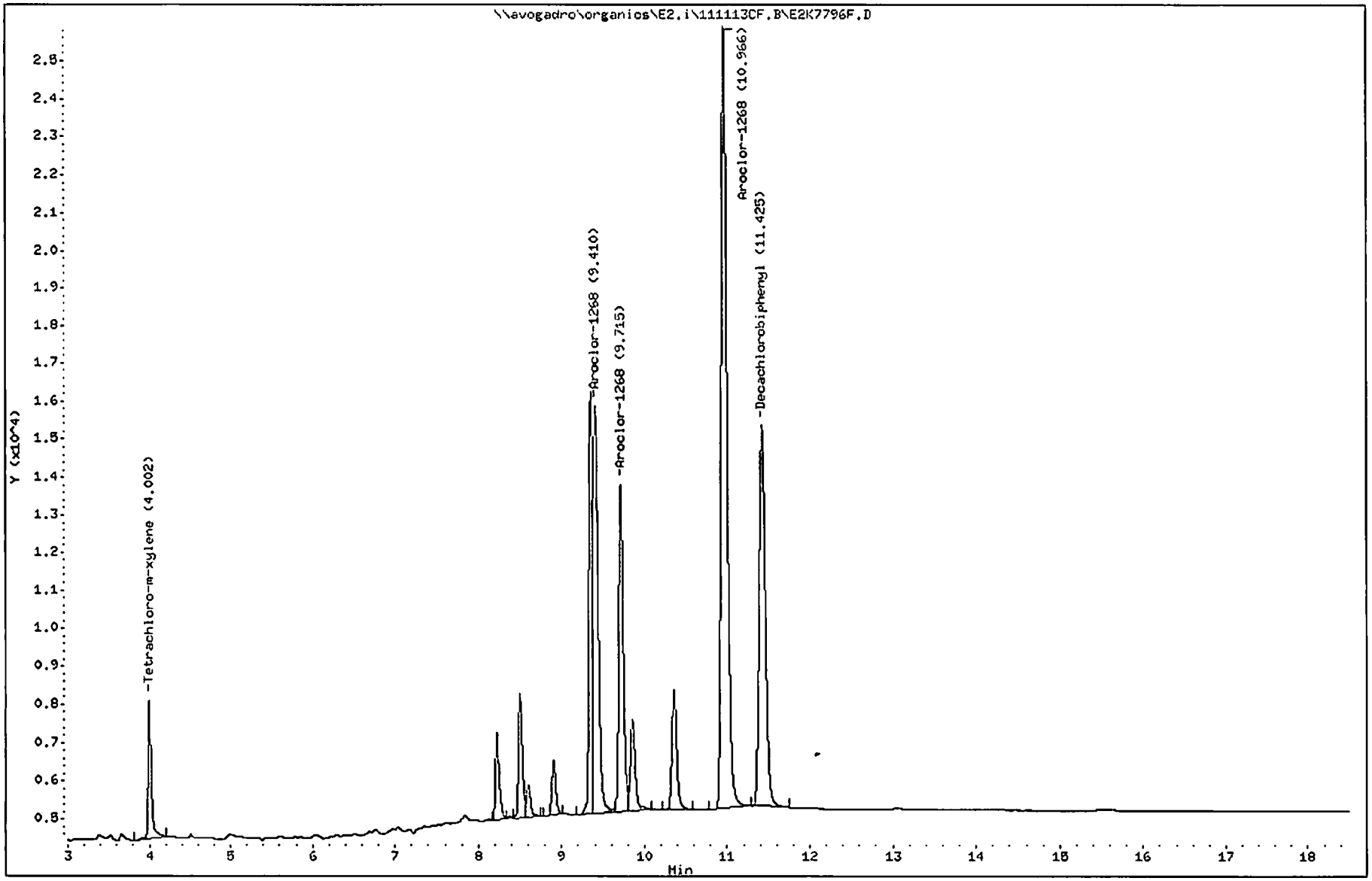
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.001	4.001	0.000	98306	0.00500	0.0050			(a)
10 Aroclor-1268					CAS #: 11100-14-4			
9.409	9.409	0.000	411999	0.10000	0.10	80.00- 120.00	100.00	(a)
9.714	9.715	-0.001	316465	0.10000	0.11	53.42- 93.42	76.81	
10.965	10.965	0.000	992654	0.10000	0.11	212.09- 252.09	240.94	
Average of Peak Amounts =					0.10667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.424	11.422	0.002	521802	0.01000	0.016			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7796F.D
Date : 14-NOV-2011 01:19
Client ID: AR12681K2
Sample Info: AR12681K2,AR12681K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7796R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7796R.D
Lab Smp Id: AR12681K2 Client Smp ID: AR12681K2
Inj Date : 14-NOV-2011 01:19
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12681K2,AR12681K2,,ar1268.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802R.D
Als bottle: 29 Calibration Sample, Level: 1
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

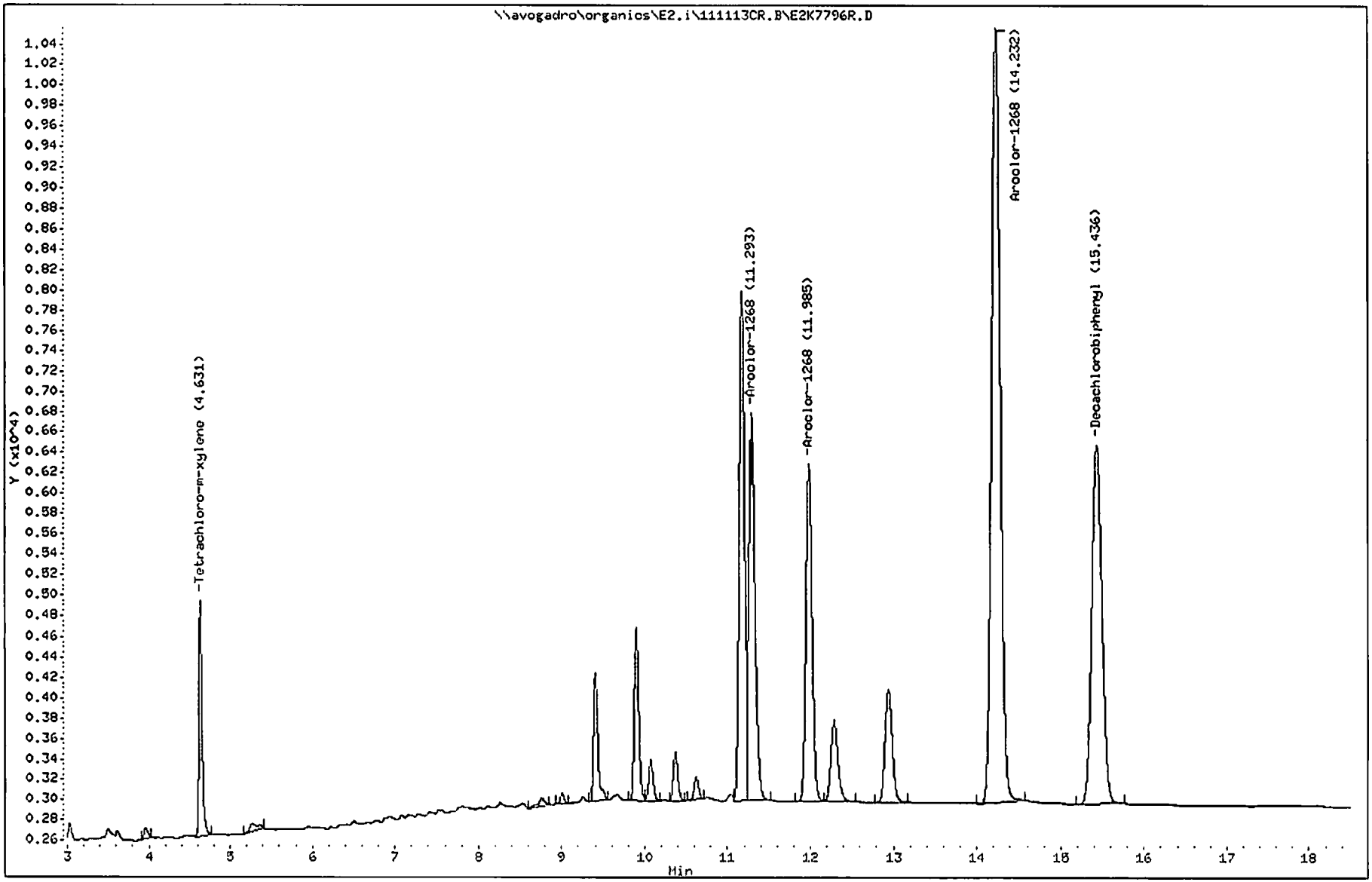
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	57502	0.00500	0.0045			(a)
9 Aroclor-1268					CAS #: 11100-14-4			
11.292	11.291	0.001	194671	0.10000	0.096	80.00- 120.00	100.00	(a)
11.985	11.984	0.001	173216	0.10000	0.099	64.43- 104.43	88.98	
14.232	14.231	0.001	543754	0.10000	0.099	257.74- 297.74	279.32	
Average of Peak Amounts =					0.09800			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.436	15.432	0.004	295884	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\111113CR.B\E2K7796R.D
Date : 14-NOV-2011 01:19
Client ID: AR12681K2
Sample Info: AR12681K2,AR12681K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7798F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7798F.D
Lab Smp Id: AR12682K2 Client Smp ID: AR12682K2
Inj Date : 14-NOV-2011 08:23
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12682K2,AR12682K2,,ar1268.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804F.D
Als bottle: 31 Calibration Sample, Level: 2
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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.020	4.001	0.019	193069	0.01000	0.0099			(a)
10 Aroclor-1268					CAS #: 11100-14-4			
9.429	9.409	0.020	776821	0.20000	0.19	80.00- 120.00	100.00	(a)
9.735	9.715	0.020	581389	0.20000	0.20	53.42- 93.42	74.84	
10.990	10.965	0.025	1857970	0.20000	0.20	212.09- 252.09	239.18	
Average of Peak Amounts =					0.19667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.451	11.422	0.029	977276	0.02000	0.027			(a)

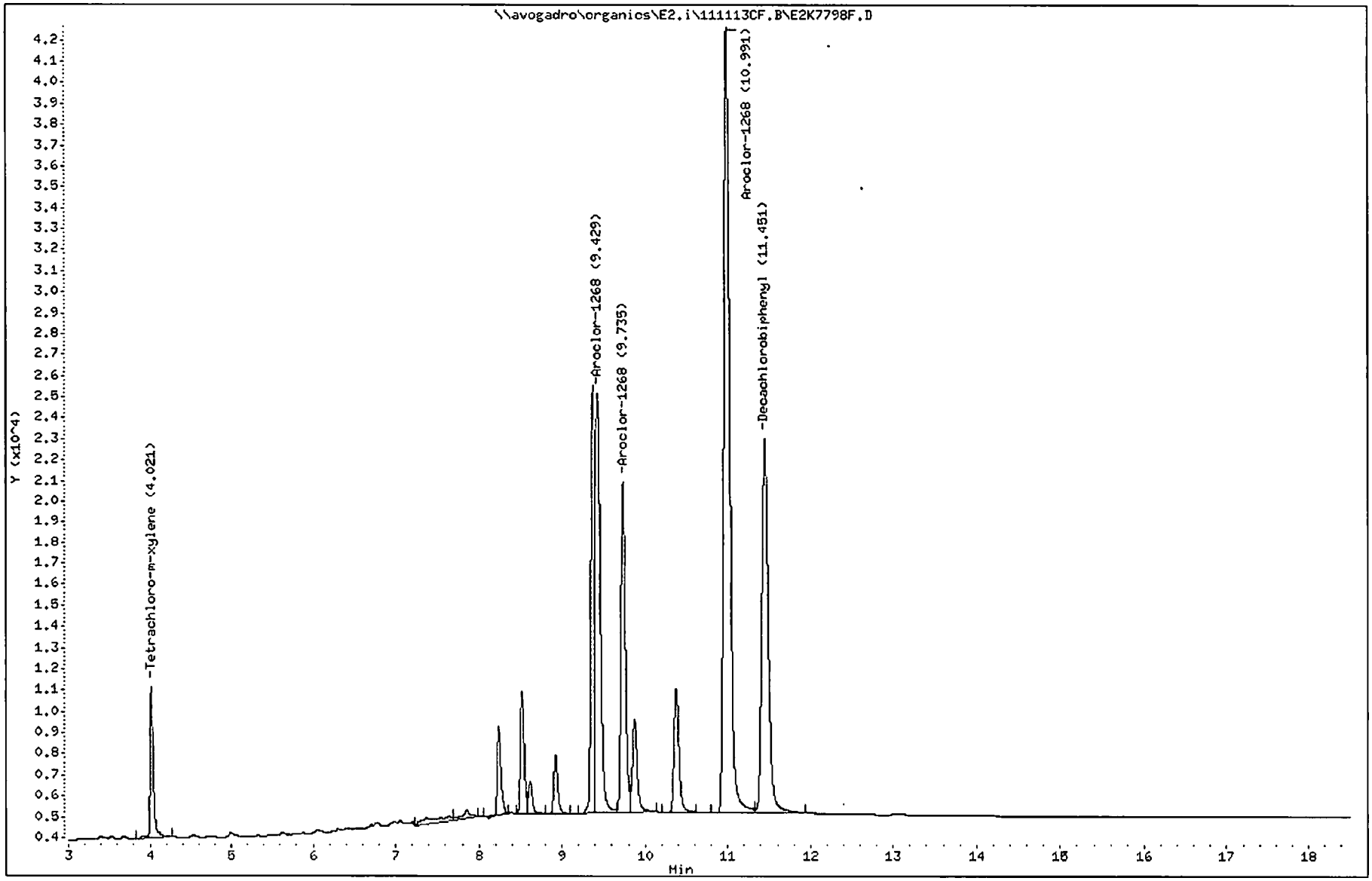
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7798F.D
Date : 14-NOV-2011 08:23
Client ID: AR12682K2
Sample Info: AR12682K2,AR12682K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7798R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7798R.D
Lab Smp Id: AR12682K2 Client Smp ID: AR12682K2
Inj Date : 14-NOV-2011 08:23
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12682K2,AR12682K2,,ar1268.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804R.D
Als bottle: 31 Calibration Sample, Level: 2
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

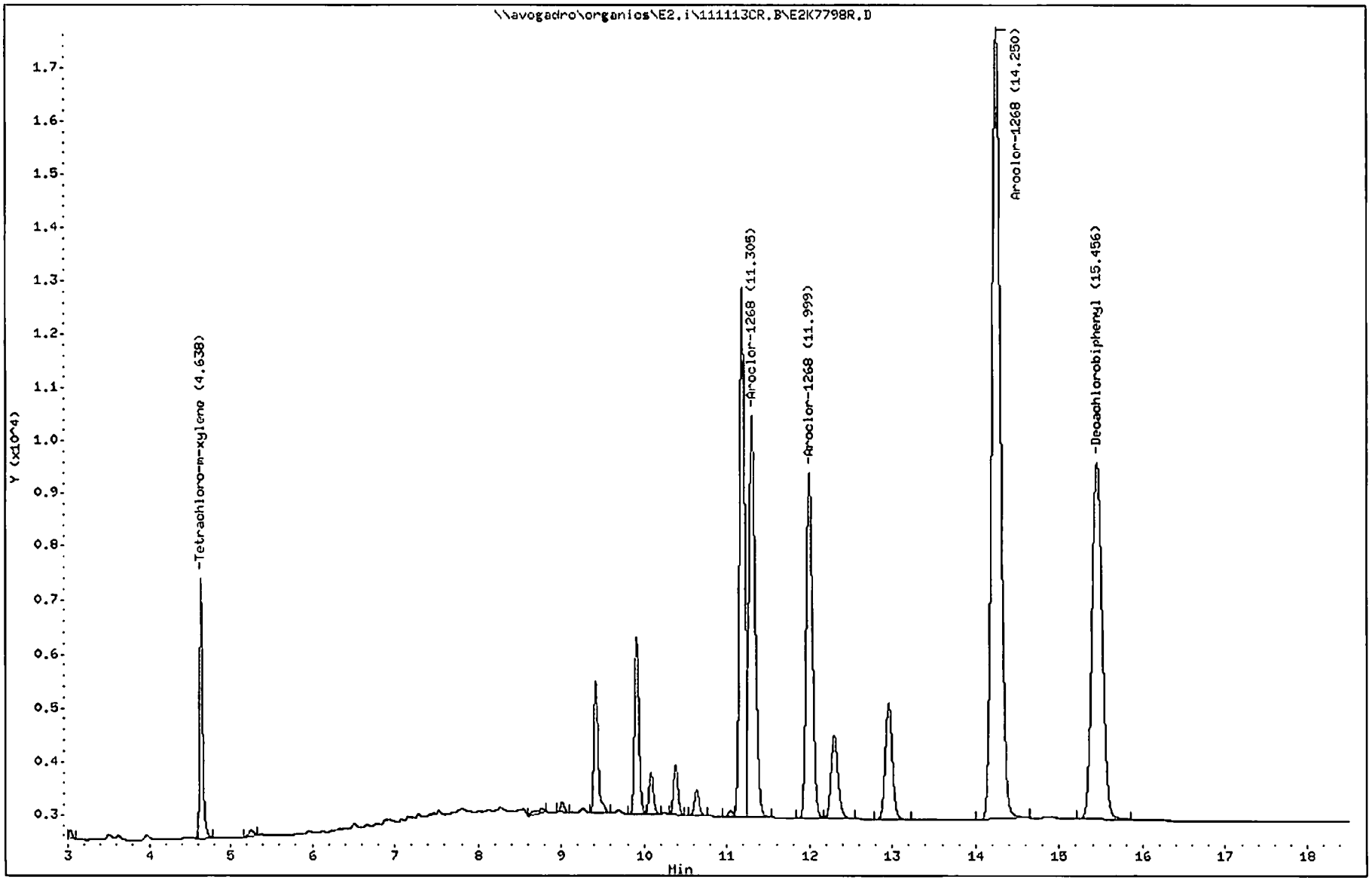
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.637	4.629	0.008	117469	0.01000	0.0093			(a)
9 Aroclor-1268					CAS #: 11100-14-4			
11.304	11.291	0.013	385374	0.20000	0.19	80.00- 120.00	100.00	(a)
11.999	11.984	0.015	338989	0.20000	0.19	64.43- 104.43	87.96	
14.250	14.231	0.019	1066058	0.20000	0.19	257.74- 297.74	276.63	
Average of Peak Amounts =					0.19000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.455	15.432	0.023	563094	0.02000	0.026			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7798R.D
Date : 14-NOV-2011 08:23
Client ID: AR12682K2
Sample Info: AR12682K2,AR12682K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7799F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7799F.D
Lab Smp Id: AR12683K2 Client Smp ID: AR12683K2
Inj Date : 14-NOV-2011 08:54
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12683K2,AR12683K2,,ar1268.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805F.D
Als bottle: 32 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

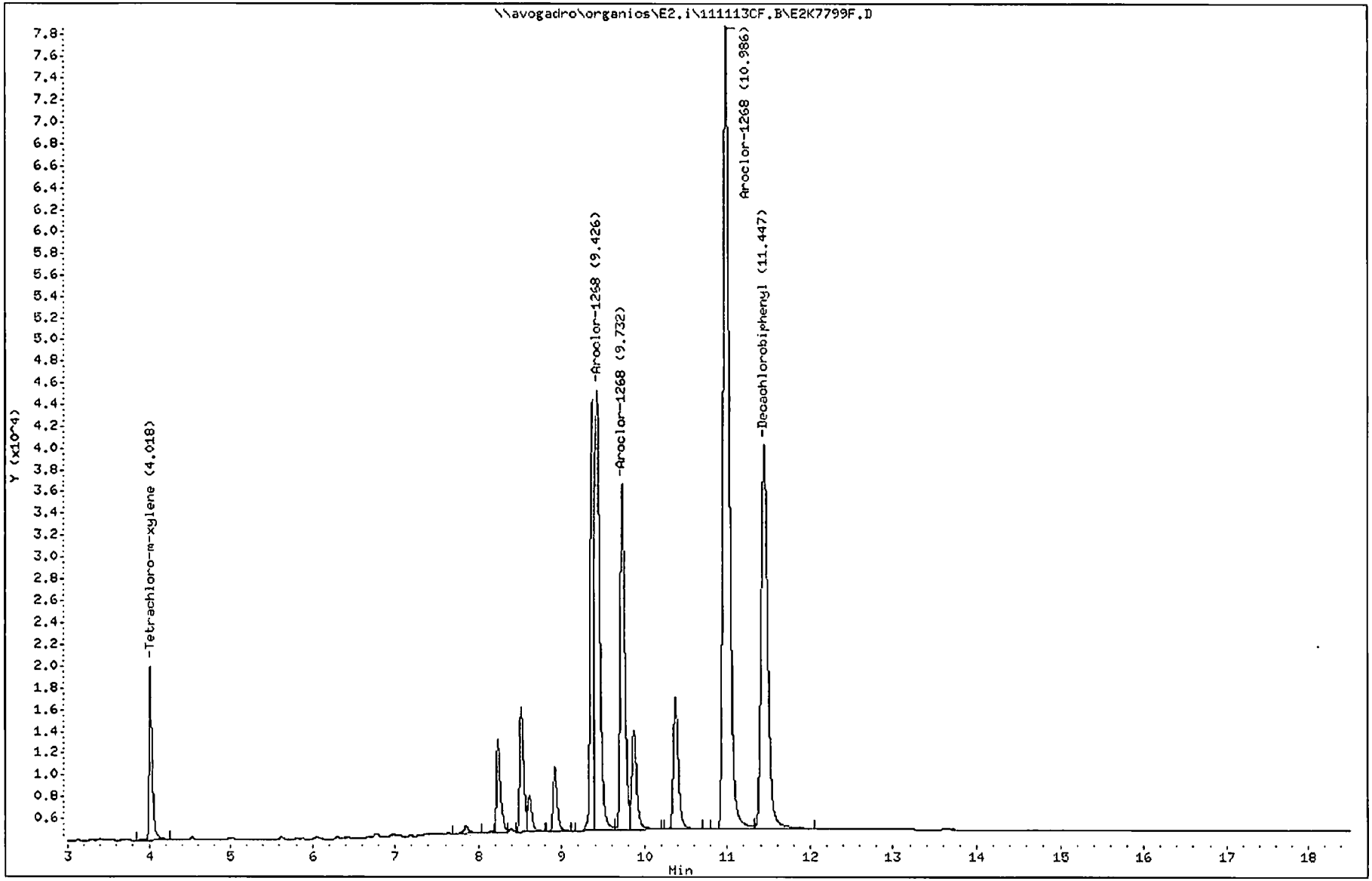
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.017	4.001	0.016	404663	0.02000	0.020			(a)
10 Aroclor-1268					CAS #: 11100-14-4			
9.425	9.409	0.016	1637092	0.40000	0.40	80.00- 120.00	100.00	(a)
9.731	9.715	0.016	1205102	0.40000	0.41	53.42- 93.42	73.61	
10.985	10.965	0.020	3768323	0.40000	0.41	212.09- 252.09	230.18	
Average of Peak Amounts =					0.40667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.446	11.422	0.024	1983306	0.04000	0.049			(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7799F.D
Date : 14-NOV-2011 08:54
Client ID: AR12683K2
Sample Info: AR12683K2,AR12683K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7799R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7799R.D
Lab Smp Id: AR12683K2 Client Smp ID: AR12683K2
Inj Date : 14-NOV-2011 08:54
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12683K2,AR12683K2,,ar1268.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805R.D
Als bottle: 32 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

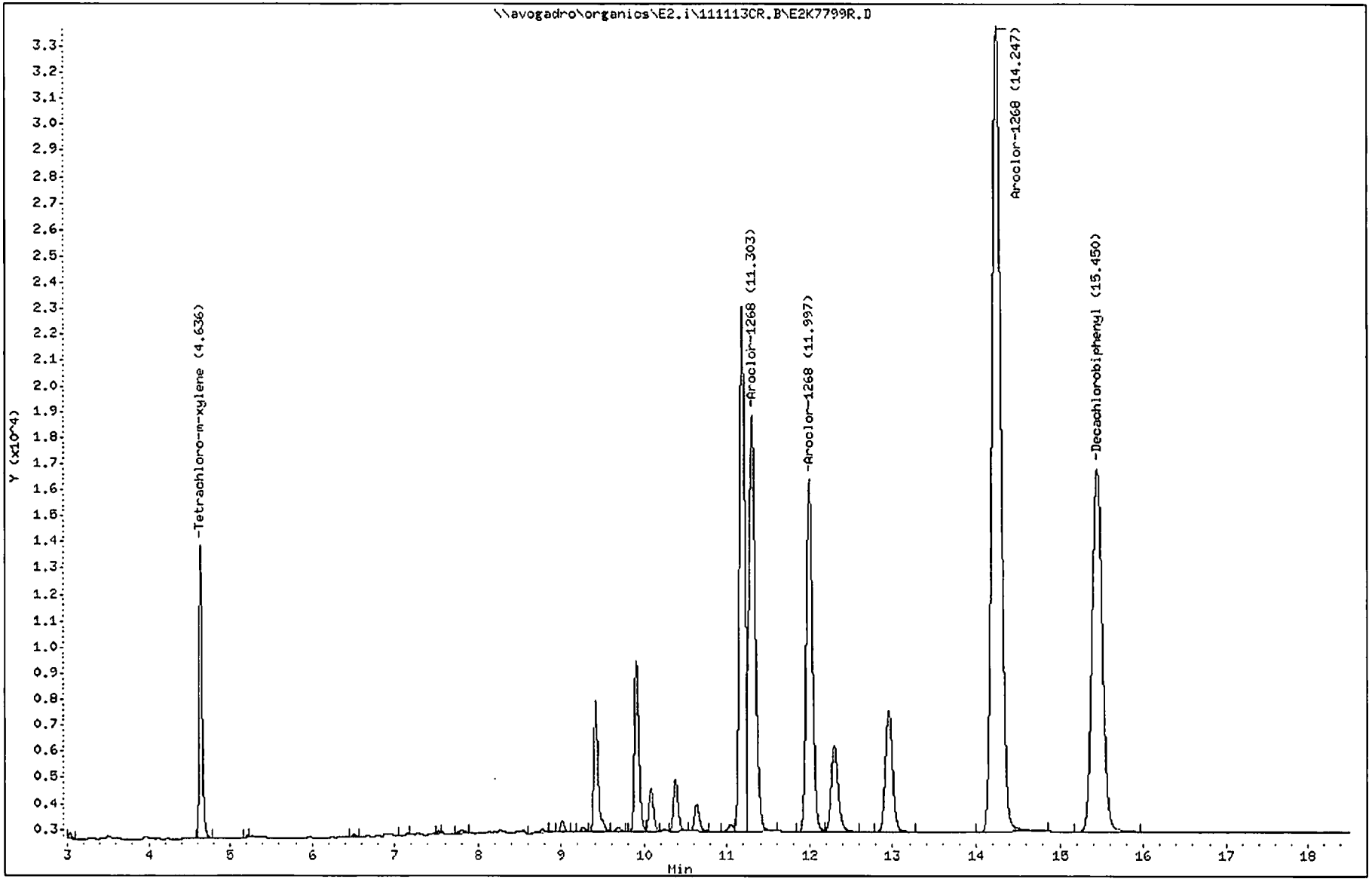
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.636	4.629	0.007	264153	0.02000	0.021		(a)
9 Aroclor-1268					CAS #: 11100-14-4		
11.302	11.291	0.011	835072	0.40000	0.41	80.00- 120.00	100.00(a)
11.996	11.984	0.012	713215	0.40000	0.41	64.43- 104.43	85.41
14.246	14.231	0.015	2284272	0.40000	0.42	257.74- 297.74	273.54
Average of Peak Amounts =					0.41333		
S 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.450	15.432	0.018	1191190	0.04000	0.049		(a)

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7799R.D
Date : 14-NOV-2011 08:54
Client ID: AR12683K2
Sample Info: AR12683K2,AR12683K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7800F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7800F.D
Lab Smp Id: AR12684K2 Client Smp ID: AR12684K2
Inj Date : 14-NOV-2011 09:17
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12684K2,AR12684K2,,ar1268.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806F.D
Als bottle: 33 Calibration Sample, Level: 4
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

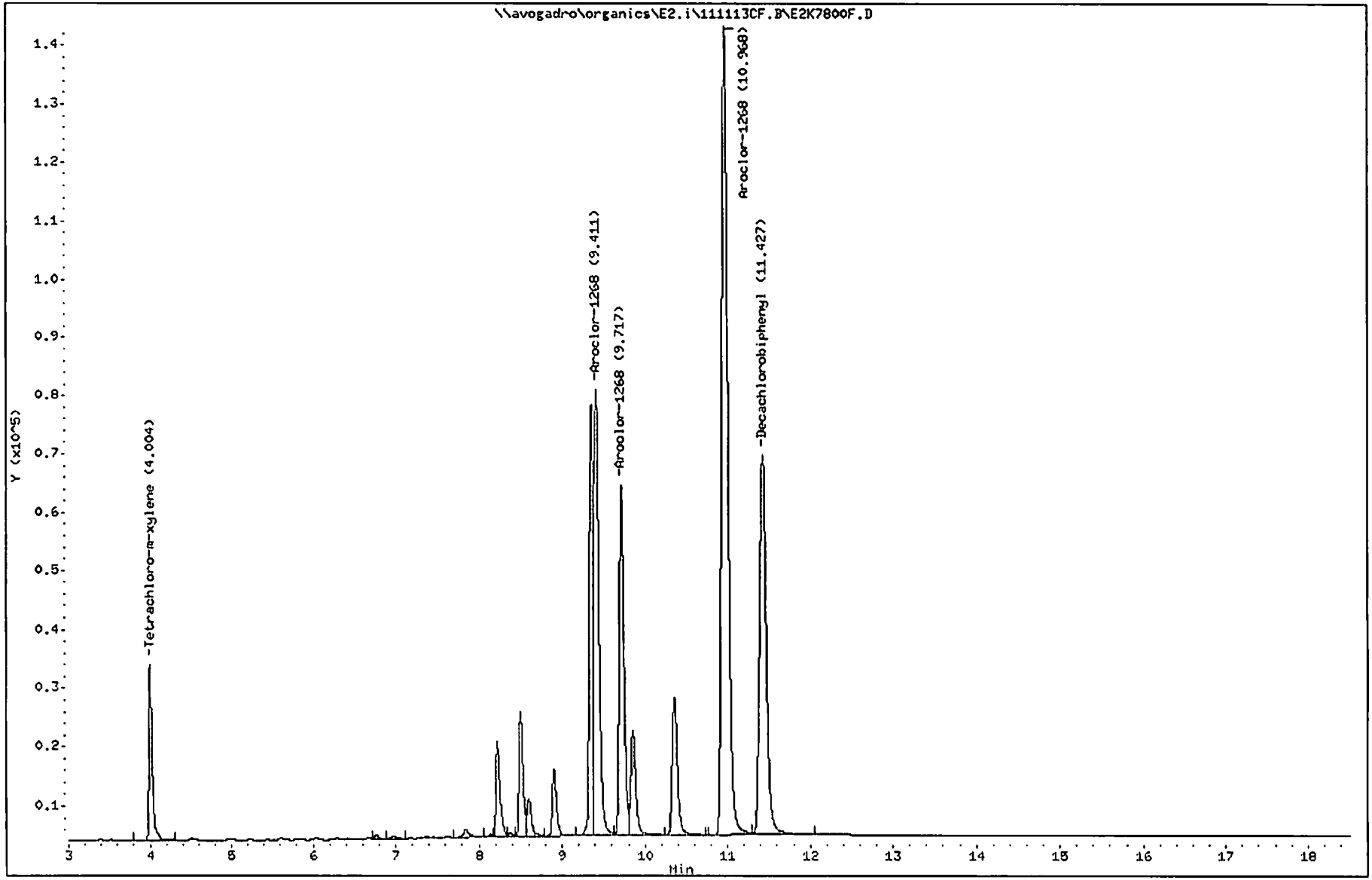
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	819466	0.04000	0.041			(a)
10 Aroclor-1268					CAS #: 11100-14-4			
9.411	9.409	0.002	3132130	0.80000	0.77	80.00- 120.00	100.00	(a)
9.717	9.715	0.002	2315843	0.80000	0.79	53.42- 93.42	73.94	
10.968	10.965	0.003	7083840	0.80000	0.77	212.09- 252.09	226.17	
Average of Peak Amounts =					0.77667			
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.427	11.422	0.005	3698391	0.08000	0.083			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7800F.D
Date : 14-NOV-2011 09:17
Client ID: AR12684K2
Sample Info: AR12684K2,AR12684K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7800R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7800R.D
Lab Smp Id: AR12684K2 Client Smp ID: AR12684K2
Inj Date : 14-NOV-2011 09:17
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12684K2,AR12684K2,,ar1268.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806R.D
Als bottle: 33 Calibration Sample, Level: 4
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

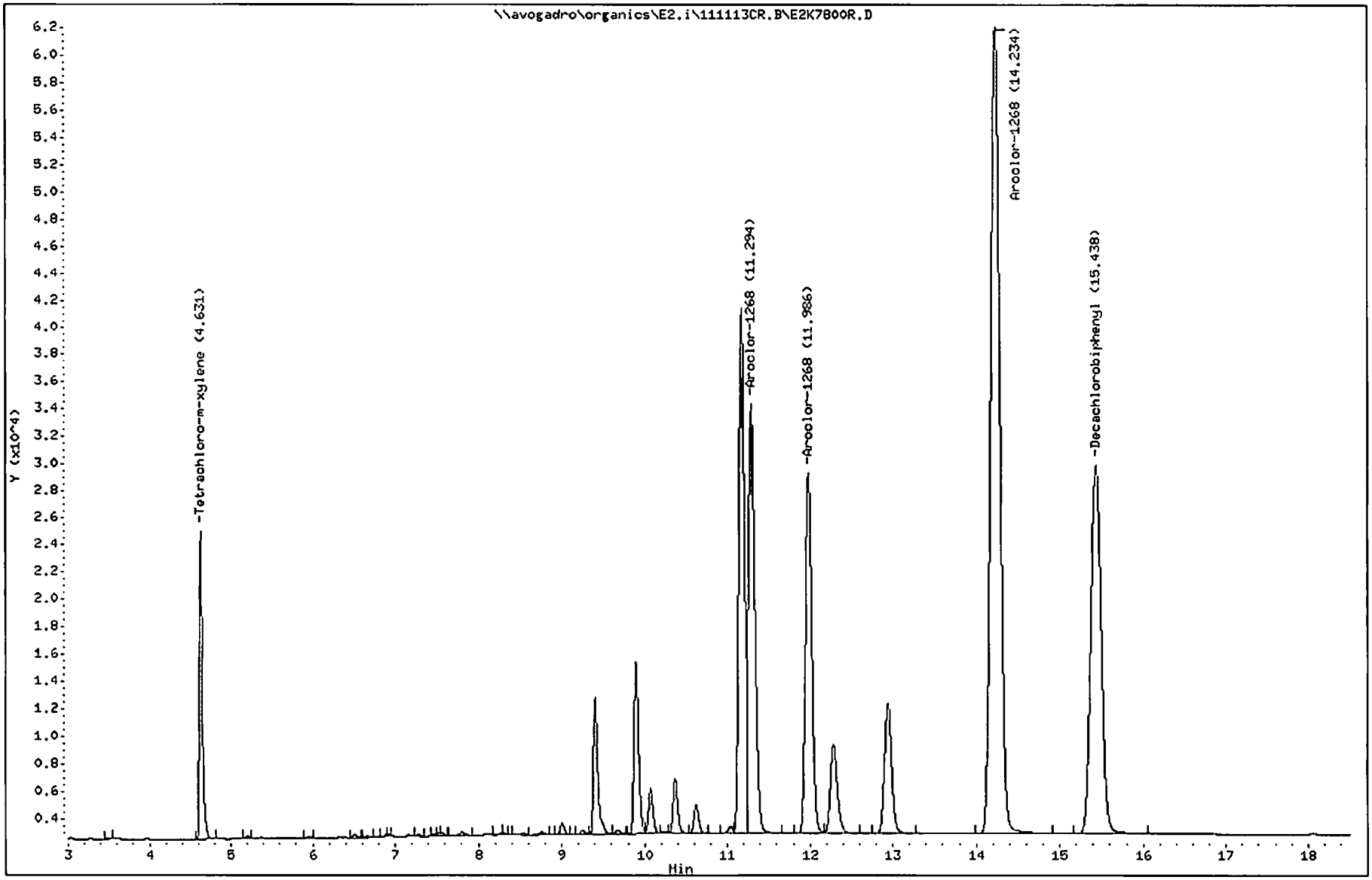
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.631	4.629	0.002	554118	0.04000	0.043			(a)
9 Aroclor-1268					CAS #: 11100-14-4			
11.293	11.291	0.002	1690612	0.80000	0.83	80.00- 120.00	100.00	(a)
11.985	11.984	0.001	1417682	0.80000	0.81	64.43- 104.43	83.86	
14.233	14.231	0.002	4482142	0.80000	0.81	257.74- 297.74	265.12	
Average of Peak Amounts =					0.81667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.437	15.432	0.005	2347323	0.08000	0.088			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7800R.D
Date : 14-NOV-2011 09:17
Client ID: AR12684K2
Sample Info: AR12684K2,AR12684K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7801F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7801F.D
Lab Smp Id: AR12685K2 Client Smp ID: AR12685K2
Inj Date : 14-NOV-2011 09:38
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12685K2,AR12685K2,,ar1268.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 34 Calibration Sample, Level: 5
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

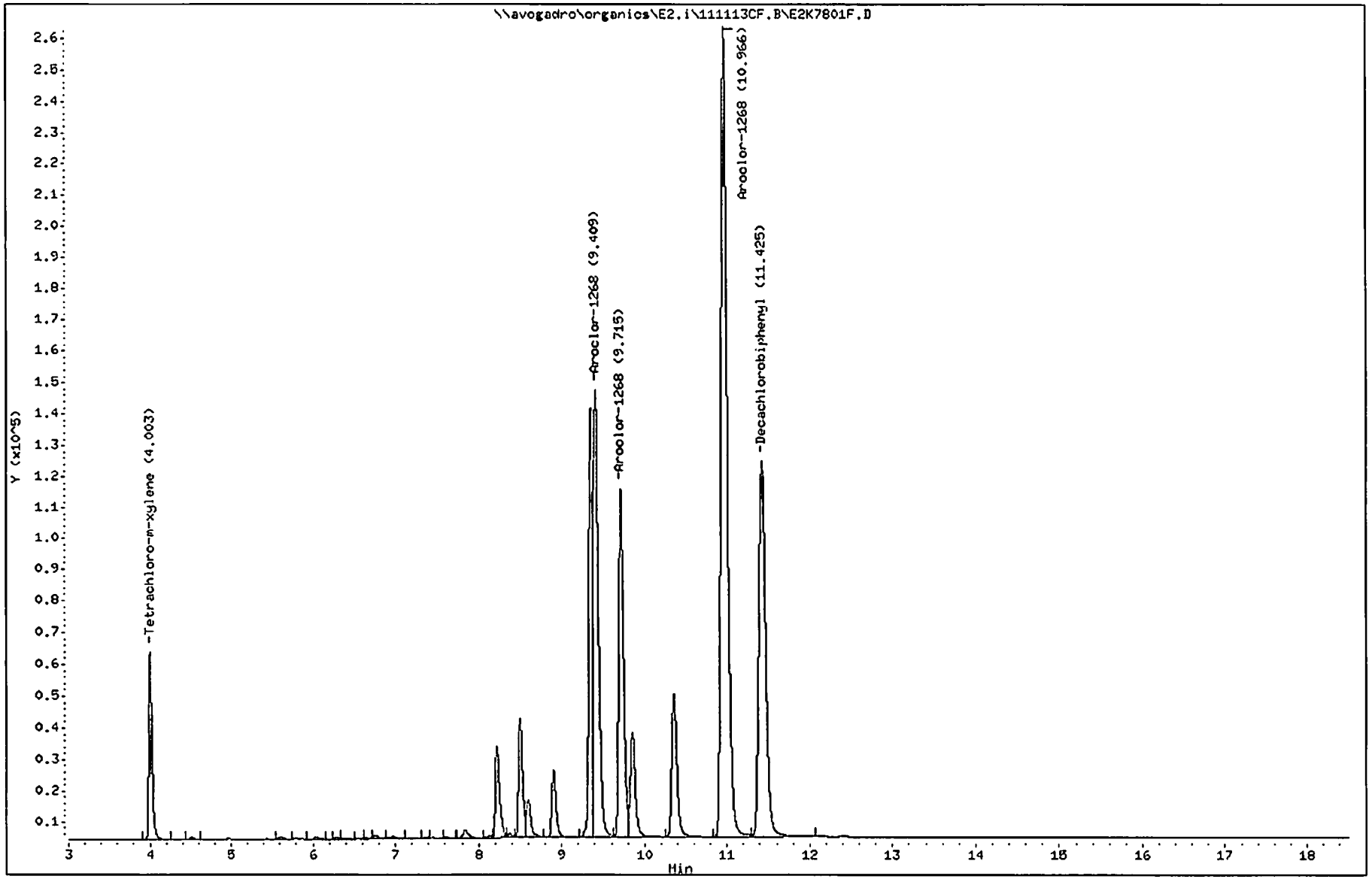
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.002	4.001	0.001	1616536	0.08000	0.081		
10 Aroclor-1268					CAS #: 11100-14-4		
9.409	9.409	0.000	6793269	1.60000	1.7	80.00- 120.00	100.00
9.715	9.715	0.000	4359889	1.60000	1.5	53.42- 93.42	64.18
10.965	10.965	0.000	13326371	1.60000	1.4	212.09- 252.09	196.17
Average of Peak Amounts =					1.53333		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.425	11.422	0.003	6861887	0.16000	0.14		

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7801F.D
Date : 14-NOV-2011 09:38
Client ID: AR12685K2
Sample Info: AR12685K2,AR12685K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7801R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7801R.D
Lab Smp Id: AR12685K2 Client Smp ID: AR12685K2
Inj Date : 14-NOV-2011 09:38
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR12685K2,AR12685K2,,ar1268.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 34 Calibration Sample, Level: 5
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

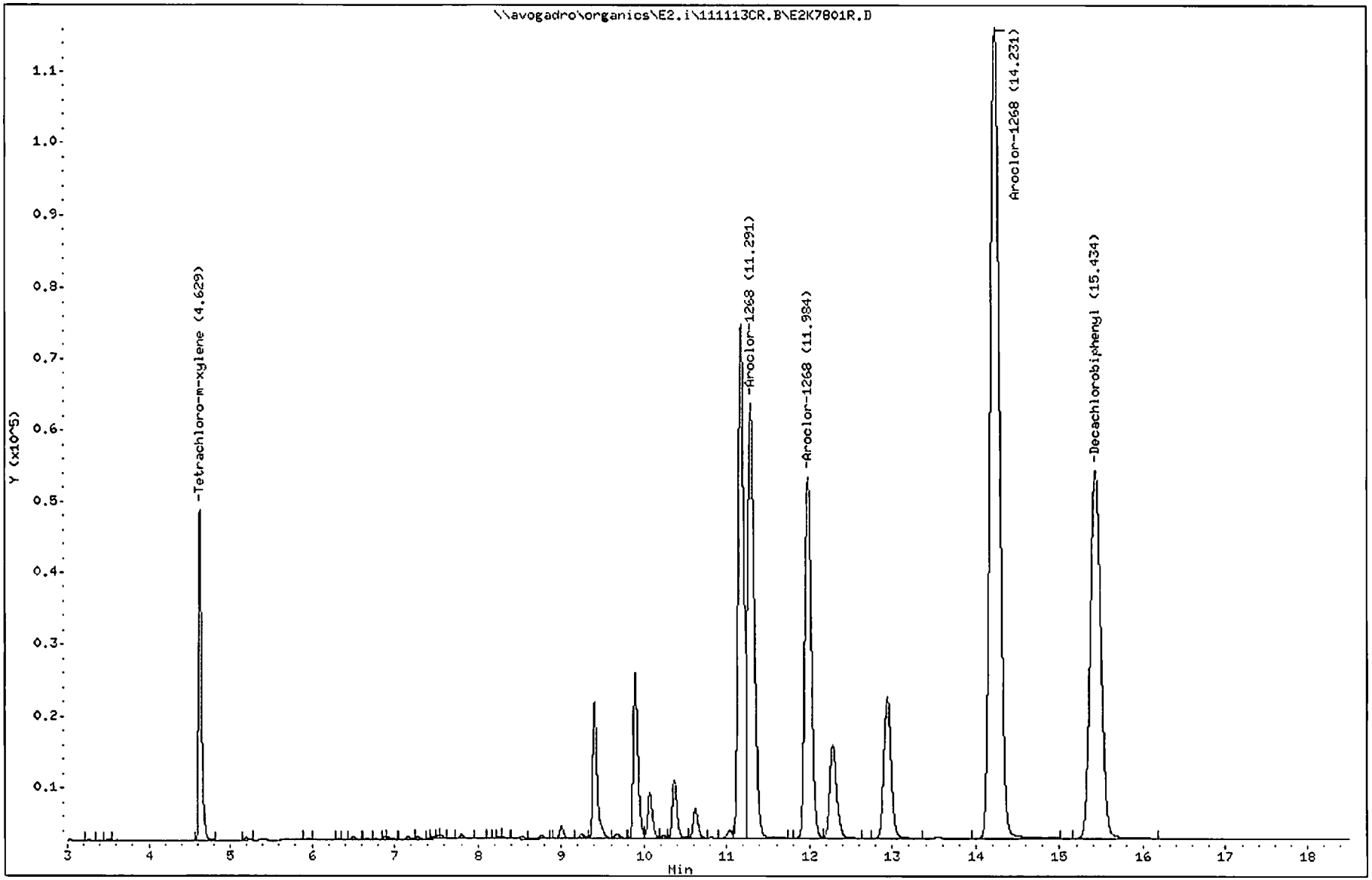
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.629	4.629	0.000	1153232	0.08000	0.089		
9 Aroclor-1268					CAS #: 11100-14-4		
11.291	11.291	0.000	3361068	1.60000	1.6	80.00- 120.00	100.00(A)
11.984	11.984	0.000	2775140	1.60000	1.6	64.43- 104.43	82.57
14.231	14.231	0.000	8687803	1.60000	1.6	257.74- 297.74	258.48
Average of Peak Amounts =				1.60000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.434	15.432	0.002	4544776	0.16000	0.16		

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7801R.D
Date : 14-NOV-2011 09:38
Client ID: AR12685K2
Sample Info: AR12685K2,AR12685K2,,ar1268.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7802F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7802F.D
Lab Smp Id: AR16601K2 Client Smp ID: AR16601K2
Inj Date : 14-NOV-2011 09:59
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16601K2,AR16601K2,,ar1660.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802F.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.003	4.001	0.002	106257	0.00500	0.0052			(a)
5 Aroclor-1016					CAS #: 12674-11-2			
5.607	5.606	0.001	244678	0.10000	0.12	80.00- 120.00	100.00	(a)
5.785	5.783	0.002	91834	0.10000	0.12	17.61- 57.61	37.53	
6.040	6.040	0.000	164729	0.10000	0.12	46.07- 86.07	67.32	
Average of Peak Amounts =					0.12000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.423	11.422	0.001	323764	0.01000	0.0074			(a)
9 Aroclor-1260					CAS #: 11096-82-5			
7.802	7.799	0.003	298111	0.10000	0.12	80.00- 120.00	100.00	(a)
8.097	8.095	0.002	215548	0.10000	0.11	54.46- 94.46	72.30	
8.507	8.505	0.002	240637	0.10000	0.11	67.66- 107.66	80.72	
Average of Peak Amounts =					0.11333			

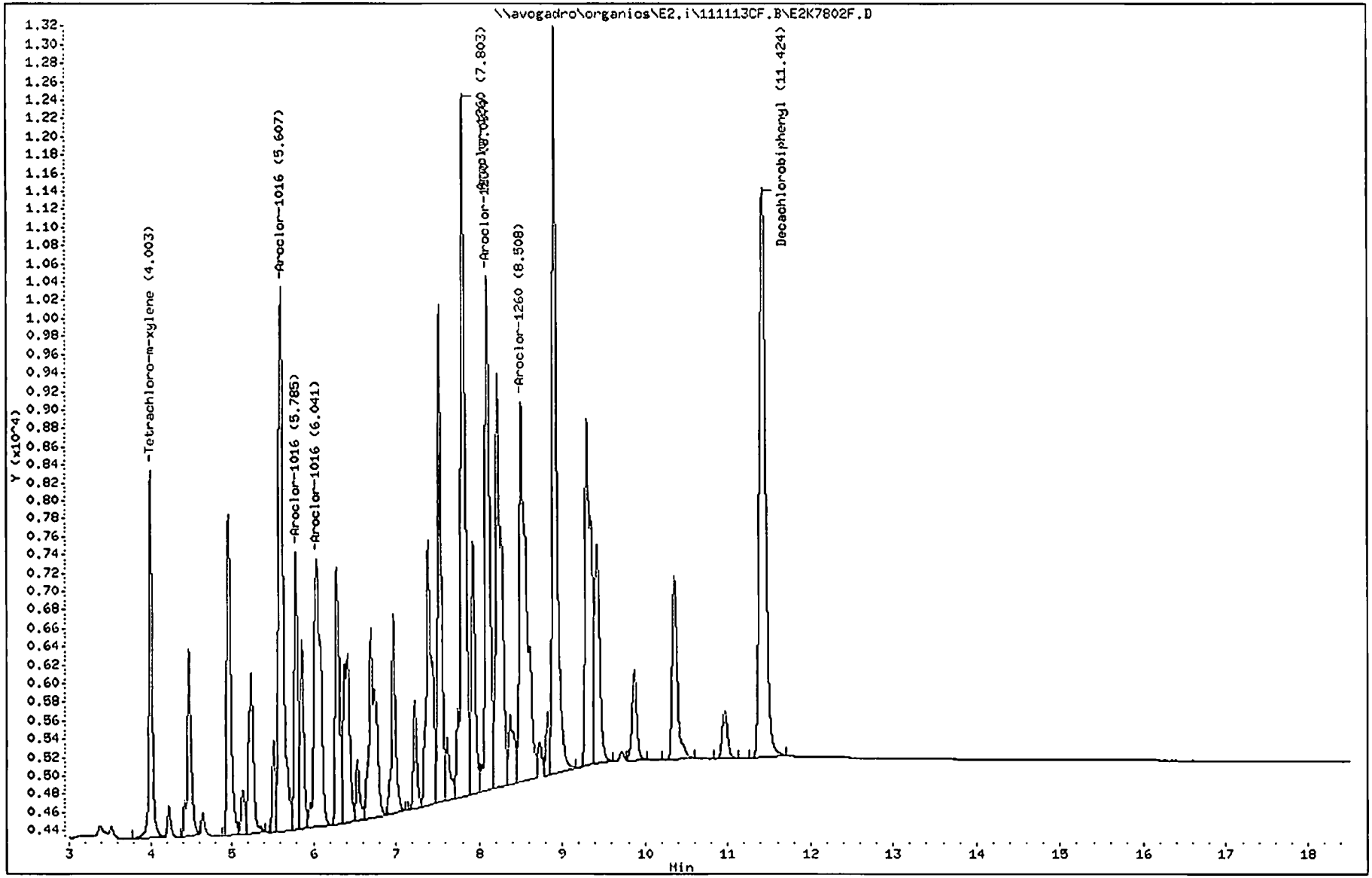
Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7802F.D
Report Date: 17-Nov-2011 11:08

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7802F.D
Date : 14-NOV-2011 09:59
Client ID: AR16601K2
Sample Info: AR16601K2,AR16601K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7802R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7802R.D
Lab Smp Id: AR16601K2 Client Smp ID: AR16601K2
Inj Date : 14-NOV-2011 09:59
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16601K2,AR16601K2,,ar1660.sub,,
Misc Info : 1,1,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 09:59 Cal File: E2K7802R.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.630	4.629	0.001	60229	0.00500	0.0046			(a)
6 Aroclor-1016					CAS #: 12674-11-2			
6.253	6.251	0.002	33207	0.10000	0.10	80.00- 120.00	100.00	(a)
6.505	6.504	0.001	127793	0.10000	0.10	376.07- 416.07	384.84	
6.661	6.658	0.003	59423	0.10000	0.11	154.78- 194.78	178.95	
Average of Peak Amounts =					0.10333			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.432	15.432	0.000	179969	0.01000	0.0067			(a)
8 Aroclor-1260					CAS #: 11096-82-5			
9.259	9.257	0.002	129576	0.10000	0.10	80.00- 120.00	100.00	(a)
9.404	9.401	0.003	83407	0.10000	0.11	40.60- 80.60	64.37	
9.889	9.887	0.002	82733	0.10000	0.10	43.80- 83.80	63.85	
Average of Peak Amounts =					0.10333			

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7802R.D
Report Date: 17-Nov-2011 11:09

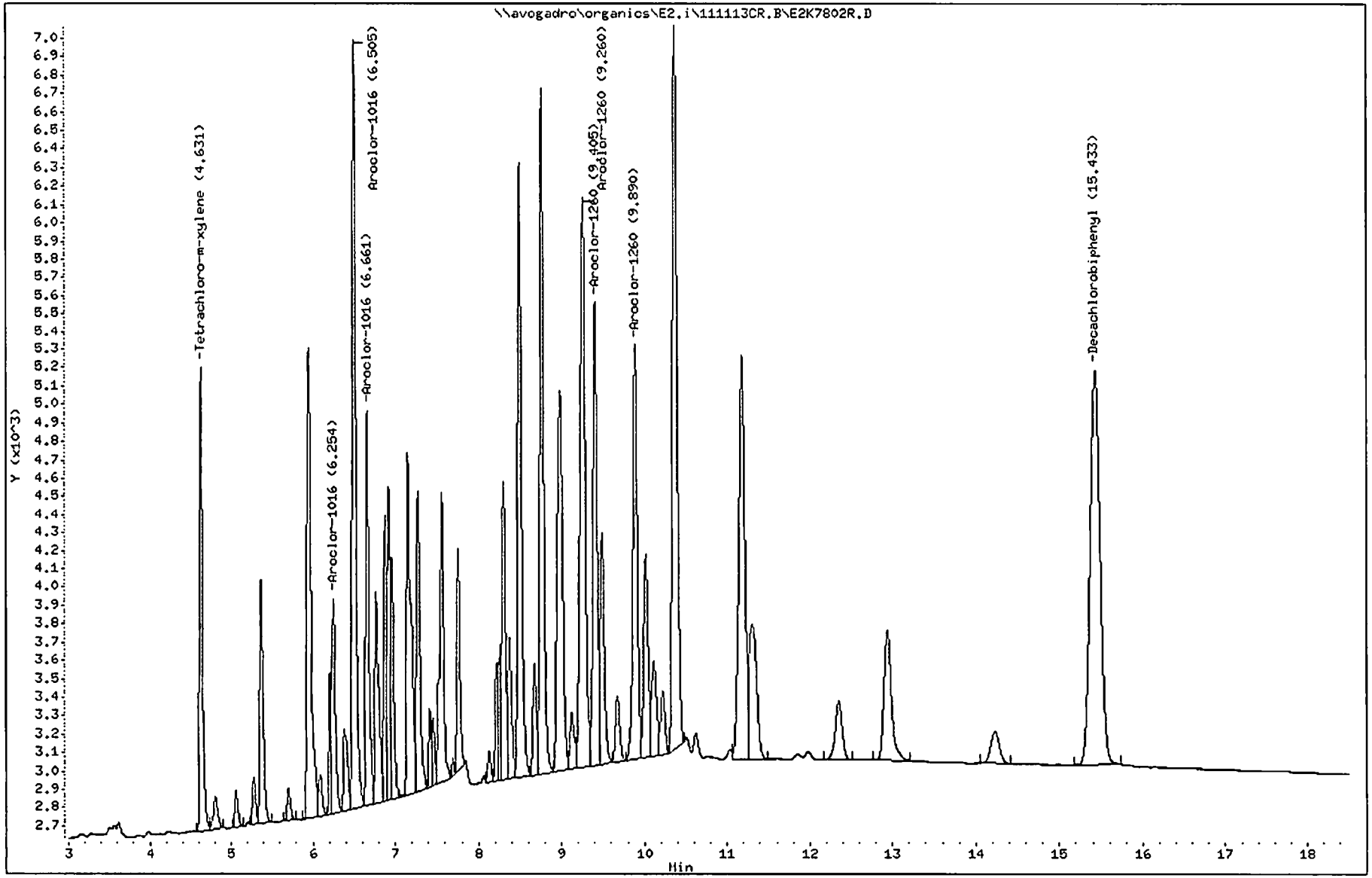
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7802R.D
Date : 14-NOV-2011 09:59
Client ID: AR16601K2
Sample Info: AR16601K2,AR16601K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7804F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7804F.D
Lab Smp Id: AR16602K2 Client Smp ID: AR16602K2
Inj Date : 14-NOV-2011 10:40
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16602K2,AR16602K2,,ar1660.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804F.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	216110	0.01000	0.010			(a)
5 Aroclor-1016					CAS #: 12674-11-2			
5.607	5.606	0.001	460196	0.20000	0.22	80.00- 120.00	100.00	(a)
5.785	5.783	0.002	173259	0.20000	0.22	17.61- 57.61	37.65	
6.041	6.040	0.001	307638	0.20000	0.22	46.07- 86.07	66.85	
Average of Peak Amounts =					0.22000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.422	11.422	0.000	637302	0.02000	0.016			(a)
9 Aroclor-1260					CAS #: 11096-82-5			
7.801	7.799	0.002	543798	0.20000	0.22	80.00- 120.00	100.00	(a)
8.096	8.095	0.001	400642	0.20000	0.21	54.46- 94.46	73.67	
8.507	8.505	0.002	450490	0.20000	0.21	67.66- 107.66	82.84	
Average of Peak Amounts =					0.21333			

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7804F.D
Report Date: 17-Nov-2011 11:08

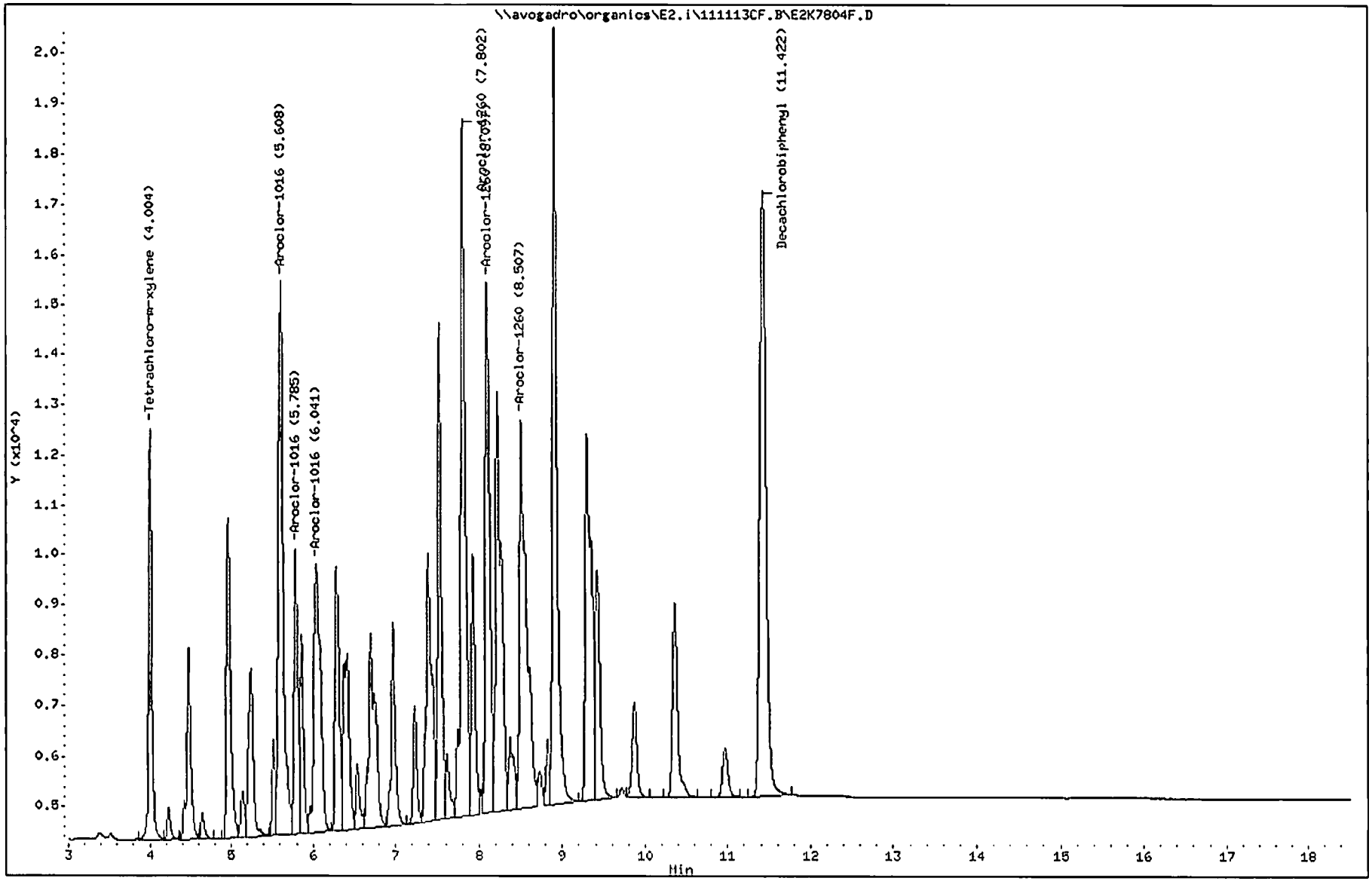
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7804F.D
Date : 14-NOV-2011 10:40
Client ID: AR16602K2
Sample Info: AR16602K2,AR16602K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7804R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7804R.D
Lab Smp Id: AR16602K2 Client Smp ID: AR16602K2
Inj Date : 14-NOV-2011 10:40
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16602K2,AR16602K2,,ar1660.sub,,
Misc Info : 1,2,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 10:40 Cal File: E2K7804R.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.632	4.629	0.003	127188	0.01000	0.0096			(a)
6 Aroclor-1016					CAS #: 12674-11-2			
6.254	6.251	0.003	64556	0.20000	0.20	80.00- 120.00	100.00	(a)
6.506	6.504	0.002	252060	0.20000	0.21	376.07- 416.07	390.45	
6.661	6.658	0.003	114291	0.20000	0.21	154.78- 194.78	177.04	
Average of Peak Amounts =					0.20667			
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.432	15.432	0.000	362234	0.02000	0.015			(a)
8 Aroclor-1260					CAS #: 11096-82-5			
9.259	9.257	0.002	255465	0.20000	0.20	80.00- 120.00	100.00	(a)
9.403	9.401	0.002	160764	0.20000	0.21	40.60- 80.60	62.93	
9.888	9.887	0.001	167592	0.20000	0.21	43.80- 83.80	65.60	
Average of Peak Amounts =					0.20667			

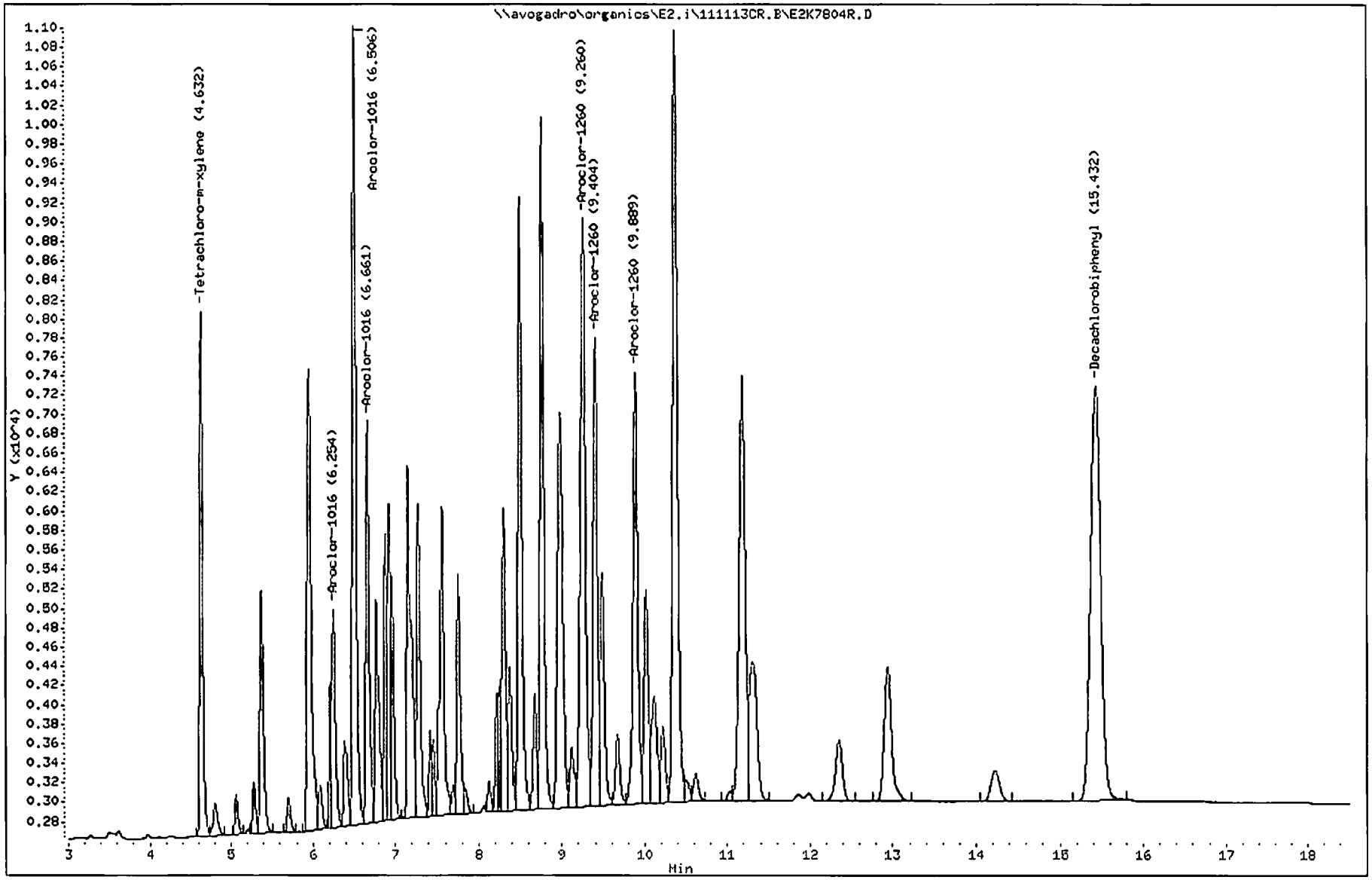
Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7804R.D
Report Date: 17-Nov-2011 11:09

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7804R.D
Date : 14-NOV-2011 10:40
Client ID: AR16602K2
Sample Info: AR16602K2,AR16602K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7805F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7805F.D
Lab Smp Id: AR16603K2 Client Smp ID: AR16603K2
Inj Date : 14-NOV-2011 11:01
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16603K2,AR16603K2,,ar1660.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805F.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.002	4.001	0.001	427871	0.02000	0.020			(a)
5 Aroclor-1016					CAS #: 12674-11-2			
5.607	5.606	0.001	834497	0.40000	0.39	80.00- 120.00	100.00	(a)
5.784	5.783	0.001	315227	0.40000	0.40	17.61- 57.61	37.77	
6.041	6.040	0.001	565120	0.40000	0.40	46.07- 86.07	67.72	
Average of Peak Amounts =					0.39667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.422	11.422	0.000	1166636	0.04000	0.032			(a)
9 Aroclor-1260					CAS #: 11096-82-5			
7.801	7.799	0.002	981170	0.40000	0.39	80.00- 120.00	100.00	(a)
8.096	8.095	0.001	761610	0.40000	0.40	54.46- 94.46	77.62	
8.507	8.505	0.002	849879	0.40000	0.40	67.66- 107.66	86.62	
Average of Peak Amounts =					0.39667			

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7805F.D
Report Date: 17-Nov-2011 11:08

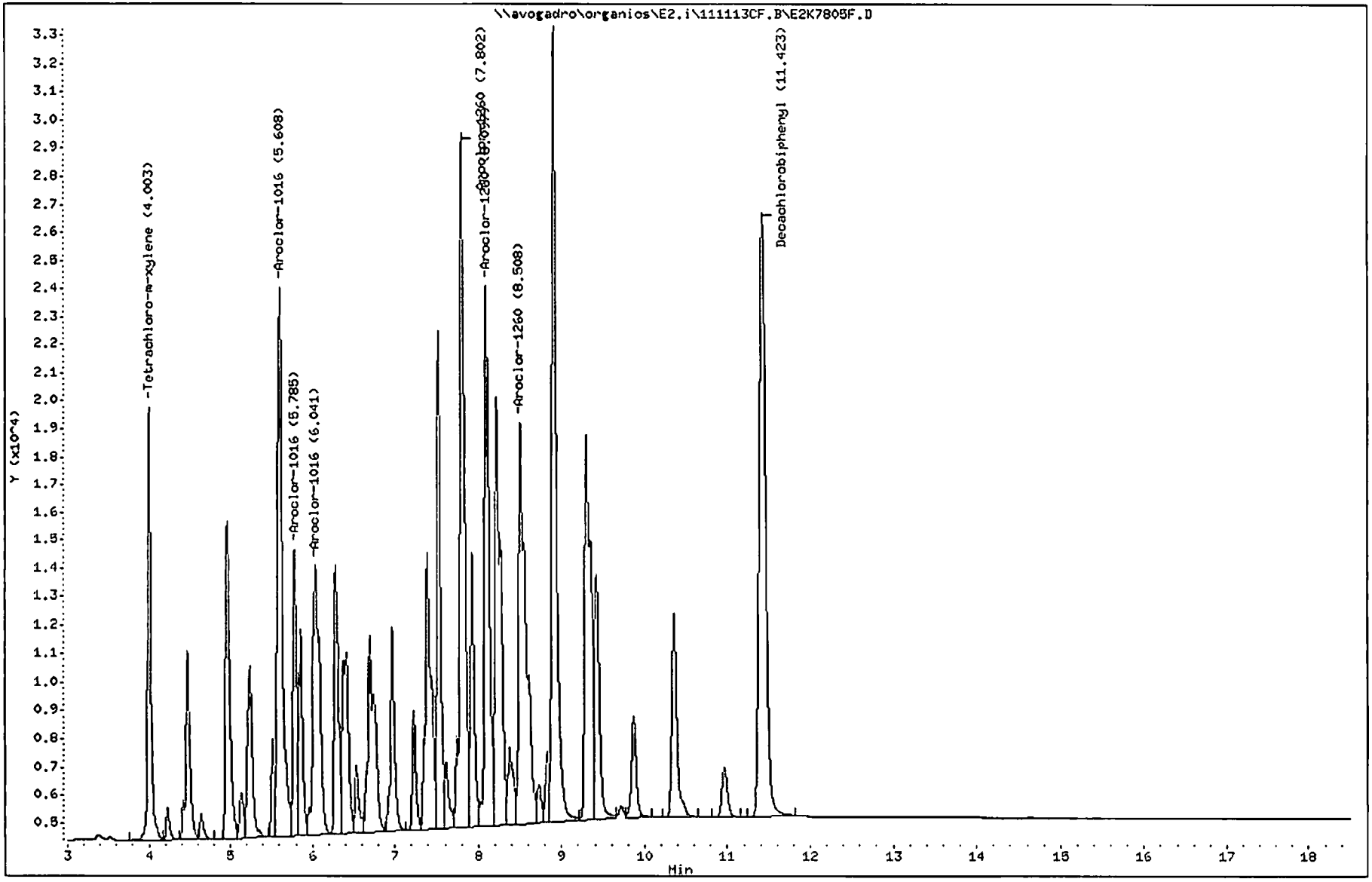
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7805F.D
Date : 14-NOV-2011 11:01
Client ID: AR16603K2
Sample Info: AR16603K2,AR16603K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7805R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7805R.D
Lab Smp Id: AR16603K2 Client Smp ID: AR16603K2
Inj Date : 14-NOV-2011 11:01
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16603K2,AR16603K2,,ar1660.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:01 Cal File: E2K7805R.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.630	4.629	0.001	259385	0.02000	0.020			(a)
6 Aroclor-1016					CAS #: 12674-11-2			
6.253	6.251	0.002	125953	0.40000	0.40	80.00- 120.00	100.00	(a)
6.505	6.504	0.001	485999	0.40000	0.40	376.07- 416.07	385.86	
6.660	6.658	0.002	218620	0.40000	0.40	154.78- 194.78	173.57	
Average of Peak Amounts =					0.40000			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.431	15.432	-0.001	682721	0.04000	0.031			(a)
8 Aroclor-1260					CAS #: 11096-82-5			
9.259	9.257	0.002	493268	0.40000	0.39	80.00- 120.00	100.00	(a)
9.402	9.401	0.001	305878	0.40000	0.40	40.60- 80.60	62.01	
9.888	9.887	0.001	321463	0.40000	0.40	43.80- 83.80	65.17	
Average of Peak Amounts =					0.39667			

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7805R.D
Report Date: 17-Nov-2011 11:09

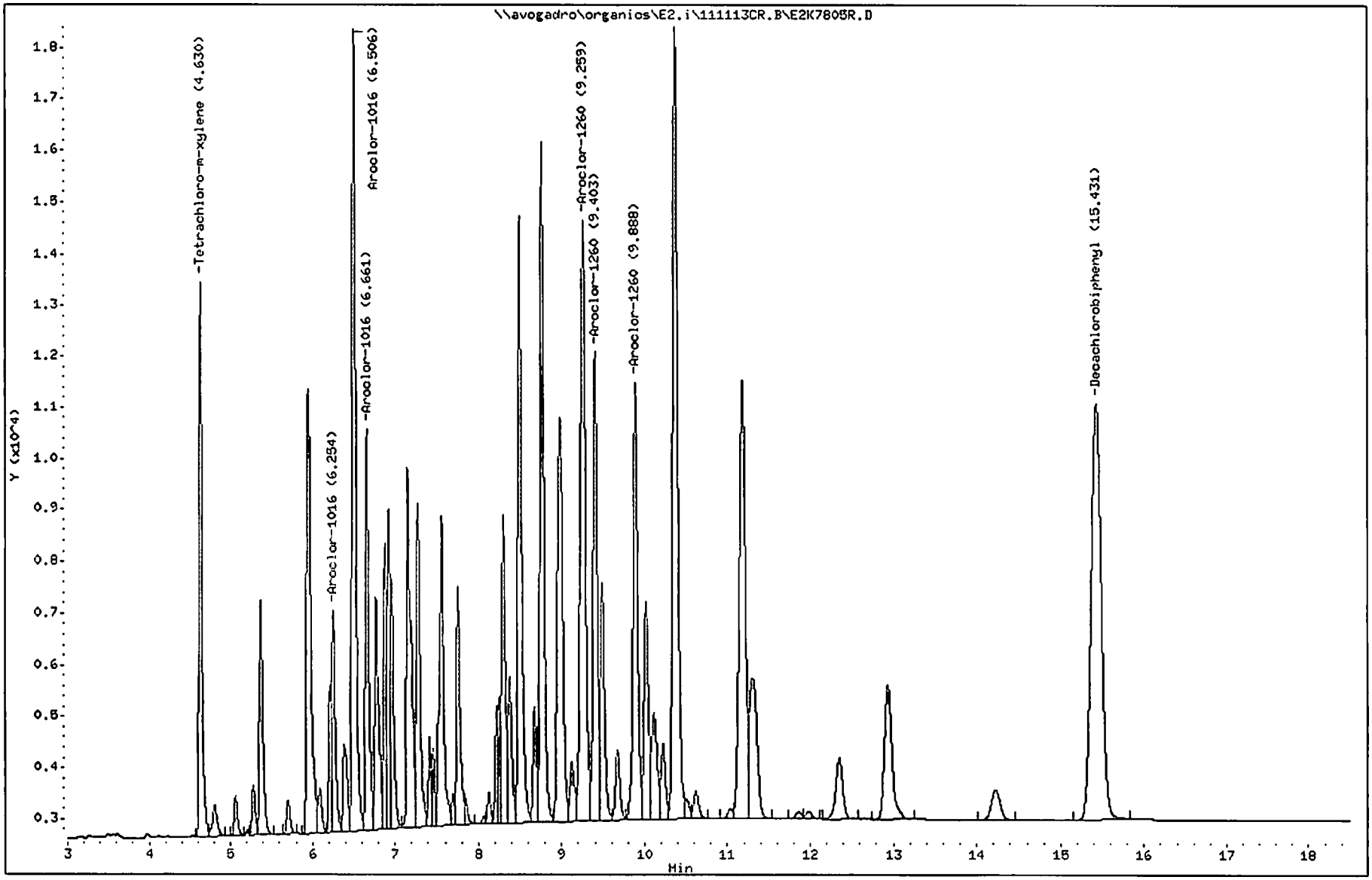
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7805R.D
Date : 14-NOV-2011 11:01
Client ID: AR16603K2
Sample Info: AR16603K2,AR16603K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7806F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7806F.D
Lab Smp Id: AR16604K2 Client Smp ID: AR16604K2
Inj Date : 14-NOV-2011 11:22
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16604K2,AR16604K2,,ar1660.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806F.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.002	4.001	0.001	848252	0.04000	0.040		(a)
5 Aroclor-1016					CAS #: 12674-11-2		
5.607	5.606	0.001	1552697	0.80000	0.73	80.00- 120.00	100.00(a)
5.784	5.783	0.001	587505	0.80000	0.74	17.61- 57.61	37.84
6.041	6.040	0.001	1048180	0.80000	0.74	46.07- 86.07	67.51
Average of Peak Amounts =					0.73667		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.422	11.422	0.000	2195940	0.08000	0.067		
9 Aroclor-1260					CAS #: 11096-82-5		
7.800	7.799	0.001	1790945	0.80000	0.72	80.00- 120.00	100.00(a)
8.095	8.095	0.000	1404075	0.80000	0.74	54.46- 94.46	78.40
8.506	8.505	0.001	1601166	0.80000	0.75	67.66- 107.66	89.40
Average of Peak Amounts =					0.73667		

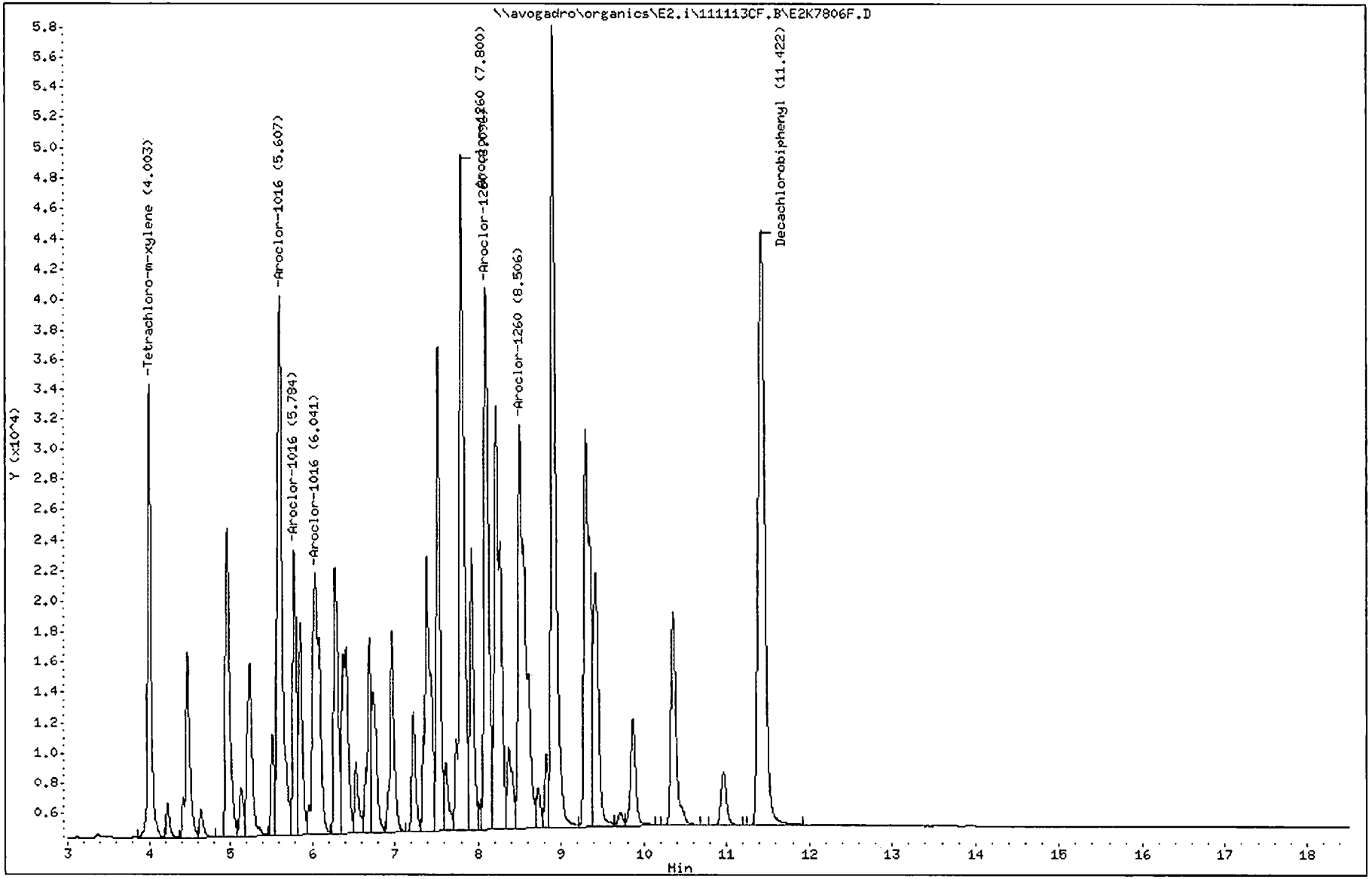
Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7806F.D
Report Date: 17-Nov-2011 11:08

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7806F.D
Date : 14-NOV-2011 11:22
Client ID: AR16604K2
Sample Info: AR16604K2,AR16604K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7806R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7806R.D
Lab Smp Id: AR16604K2 Client Smp ID: AR16604K2
Inj Date : 14-NOV-2011 11:22
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16604K2,AR16604K2,,ar1660.sub,,
Misc Info : 1,4,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:22 Cal File: E2K7806R.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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.630	4.629	0.001	541251	0.04000	0.041			(a)
6 Aroclor-1016					CAS #: 12674-11-2			
6.252	6.251	0.001	243243	0.80000	0.77	80.00- 120.00	100.00	(a)
6.505	6.504	0.001	954357	0.80000	0.78	376.07- 416.07	392.35	
6.659	6.658	0.001	422013	0.80000	0.77	154.78- 194.78	173.49	
Average of Peak Amounts =					0.77333			
S 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.429	15.432	-0.003	1347719	0.08000	0.068			
8 Aroclor-1260					CAS #: 11096-82-5			
9.258	9.257	0.001	981668	0.80000	0.78	80.00- 120.00	100.00	(a)
9.402	9.401	0.001	587253	0.80000	0.76	40.60- 80.60	59.82	
9.887	9.887	0.000	632292	0.80000	0.78	43.80- 83.80	64.41	
Average of Peak Amounts =					0.77333			

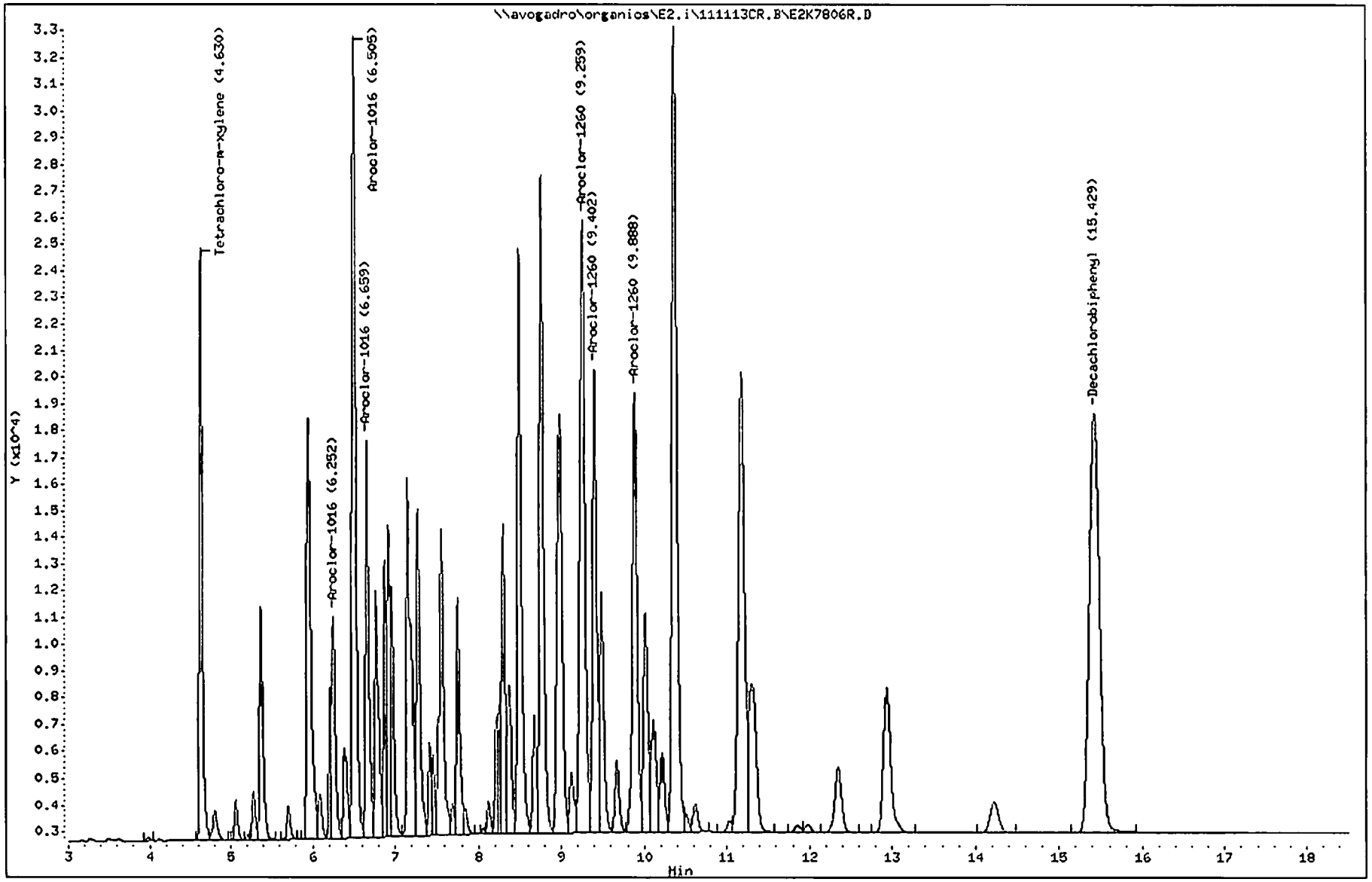
Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7806R.D
Report Date: 17-Nov-2011 11:09

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7806R.D
Date : 14-NOV-2011 11:22
Client ID: AR16604K2
Sample Info: AR16604K2,AR16604K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7807F.D
Report Date: 17-Nov-2011 11:08

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CF.B\E2K7807F.D
Lab Smp Id: AR16605K2 Client Smp ID: AR16605K2
Inj Date : 14-NOV-2011 11:43
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16605K2,AR16605K2,,ar1660.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CF.B\E2_ARO_5_F.m
Meth Date : 17-Nov-2011 11:00 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.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

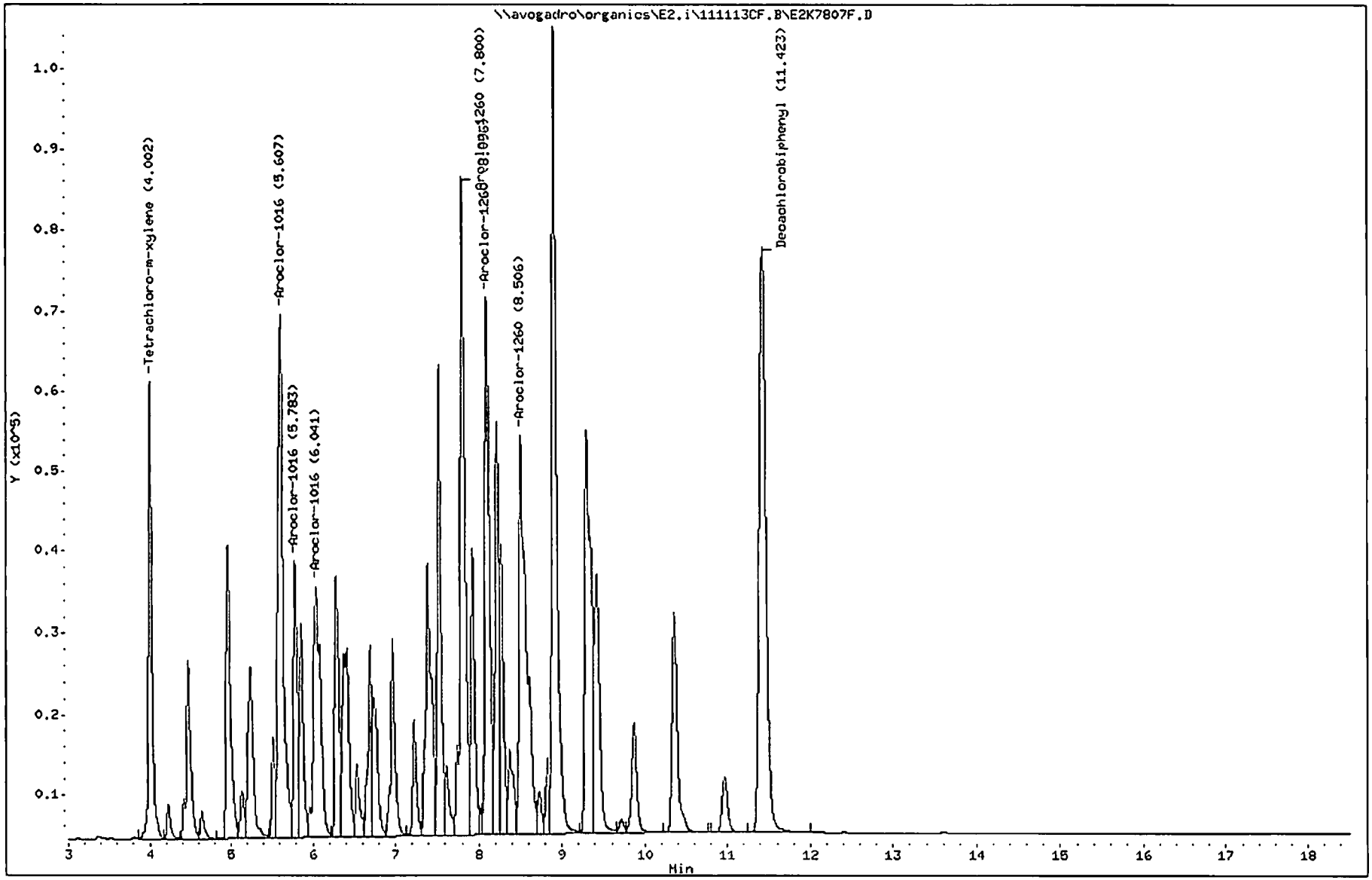
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.001	4.001	0.000	1691992	0.08000	0.079		
5 Aroclor-1016					CAS #: 12674-11-2		
5.606	5.606	0.000	2870690	1.60000	1.4	80.00- 120.00	100.00
5.783	5.783	0.000	1082101	1.60000	1.4	17.61- 57.61	37.69
6.040	6.040	0.000	1935188	1.60000	1.4	46.07- 86.07	67.41
Average of Peak Amounts =					1.40000		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.422	11.422	0.000	4107010	0.16000	0.14		
9 Aroclor-1260					CAS #: 11096-82-5		
7.799	7.799	0.000	3286601	1.60000	1.3	80.00- 120.00	100.00
8.095	8.095	0.000	2646062	1.60000	1.4	54.46- 94.46	80.51
8.505	8.505	0.000	3034243	1.60000	1.4	67.66- 107.66	92.32
Average of Peak Amounts =					1.36667		

Data File: \\avogadro\organics\E2.i\111113CF.B\E2K7807F.D
Date : 14-NOV-2011 11:43
Client ID: AR16605K2
Sample Info: AR16605K2,AR16605K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7807R.D
Report Date: 17-Nov-2011 11:09

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111113CR.B\E2K7807R.D
Lab Smp Id: AR16605K2 Client Smp ID: AR16605K2
Inj Date : 14-NOV-2011 11:43
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16605K2,AR16605K2,,ar1660.sub,,
Misc Info : 1,5,,1
Comment :
Method : \\avogadro\organics\E2.i\111113CR.B\E2_ARO_5_R.m
Meth Date : 17-Nov-2011 10:48 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.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

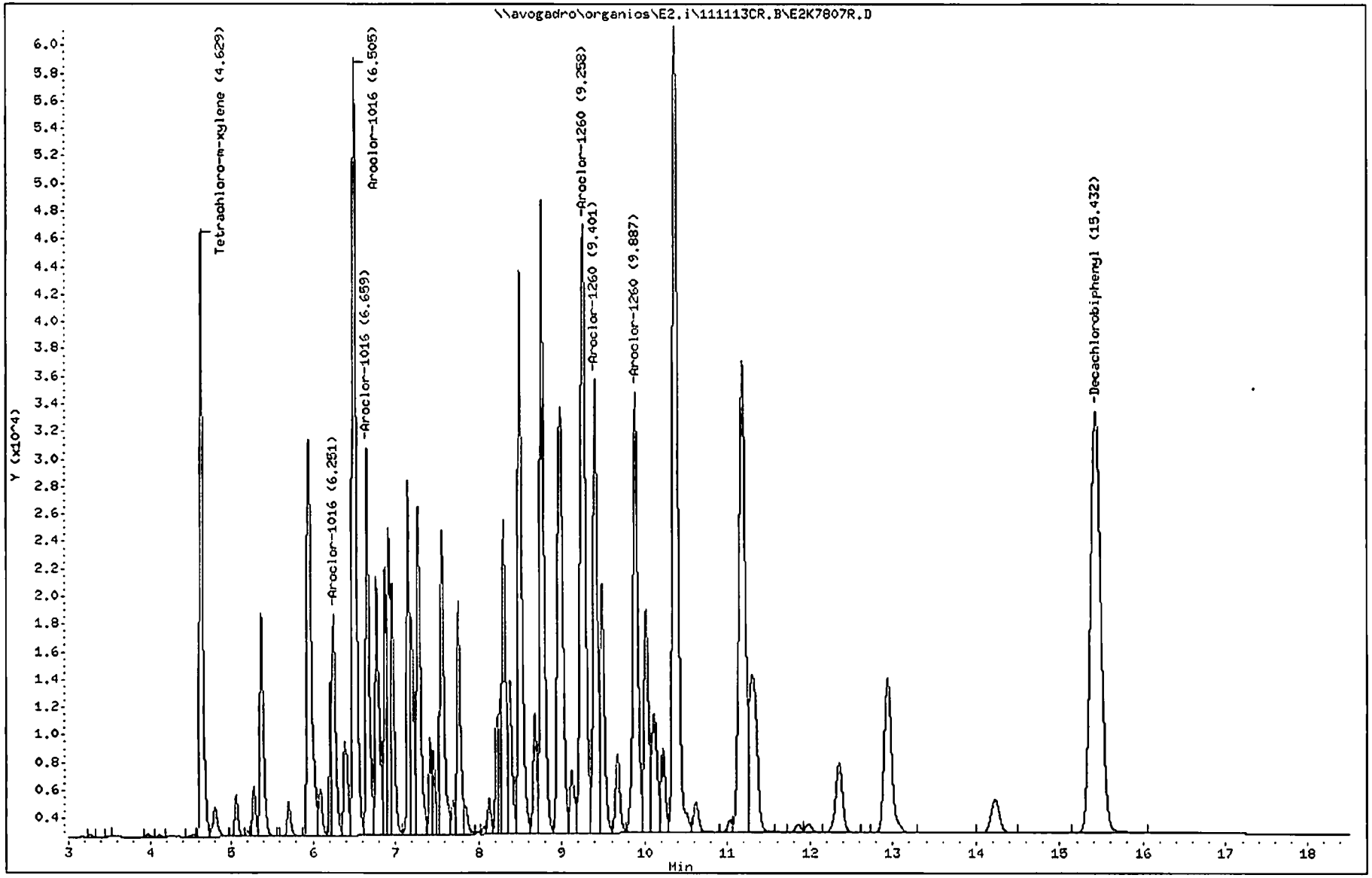
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.629	4.629	0.000	1134145	0.08000	0.087		
6 Aroclor-1016					CAS #: 12674-11-2		
6.251	6.251	0.000	476562	1.60000	1.5	80.00- 120.00	100.00
6.504	6.504	0.000	1850436	1.60000	1.5	376.07- 416.07	388.29
6.658	6.658	0.000	814978	1.60000	1.5	154.78- 194.78	171.01
Average of Peak Amounts =					1.50000		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.432	15.432	0.000	2656501	0.16000	0.15		
8 Aroclor-1260					CAS #: 11096-82-5		
9.257	9.257	0.000	1946535	1.60000	1.6	80.00- 120.00	100.00
9.401	9.401	0.000	1129901	1.60000	1.5	40.60- 80.60	58.05
9.887	9.887	0.000	1256427	1.60000	1.6	43.80- 83.80	64.55
Average of Peak Amounts =					1.56667		

Data File: \\avogadro\organics\E2.i\111113CR.B\E2K7807R.D
Date : 14-NOV-2011 11:43
Client ID: AR16605K2
Sample Info: AR16605K2,AR16605K2,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111115F.B\E2K7943F.D
Report Date: 17-Nov-2011 10:58

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7943F.D
Lab Smp Id: AR16603KG Client Smp ID: AR16603KG
Inj Date : 16-NOV-2011 02:10
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16603KG,AR16603KG,,ar1660.sub,,
Misc Info : 2,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.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: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	437959	0.02000	0.020			(a)
5 Aroclor-1016					CAS #: 12674-11-2			
5.608	5.606	0.002	867360	0.40000	0.41	80.00- 120.00	100.00	(a)
5.785	5.783	0.002	327684	0.40000	0.41	18.01- 58.01	37.78	
6.042	6.040	0.002	574375	0.40000	0.40	45.24- 85.24	66.22	
Average of Peak Amounts =					0.40667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.428	11.422	0.006	1093247	0.04000	0.037			(a)
9 Aroclor-1260					CAS #: 11096-82-5			
7.803	7.799	0.004	863048	0.40000	0.35	80.00- 120.00	100.00	(a)
8.098	8.095	0.003	696260	0.40000	0.37	54.41- 94.41	80.67	
8.509	8.505	0.004	793159	0.40000	0.37	66.98- 106.98	91.90	
Average of Peak Amounts =					0.36333			

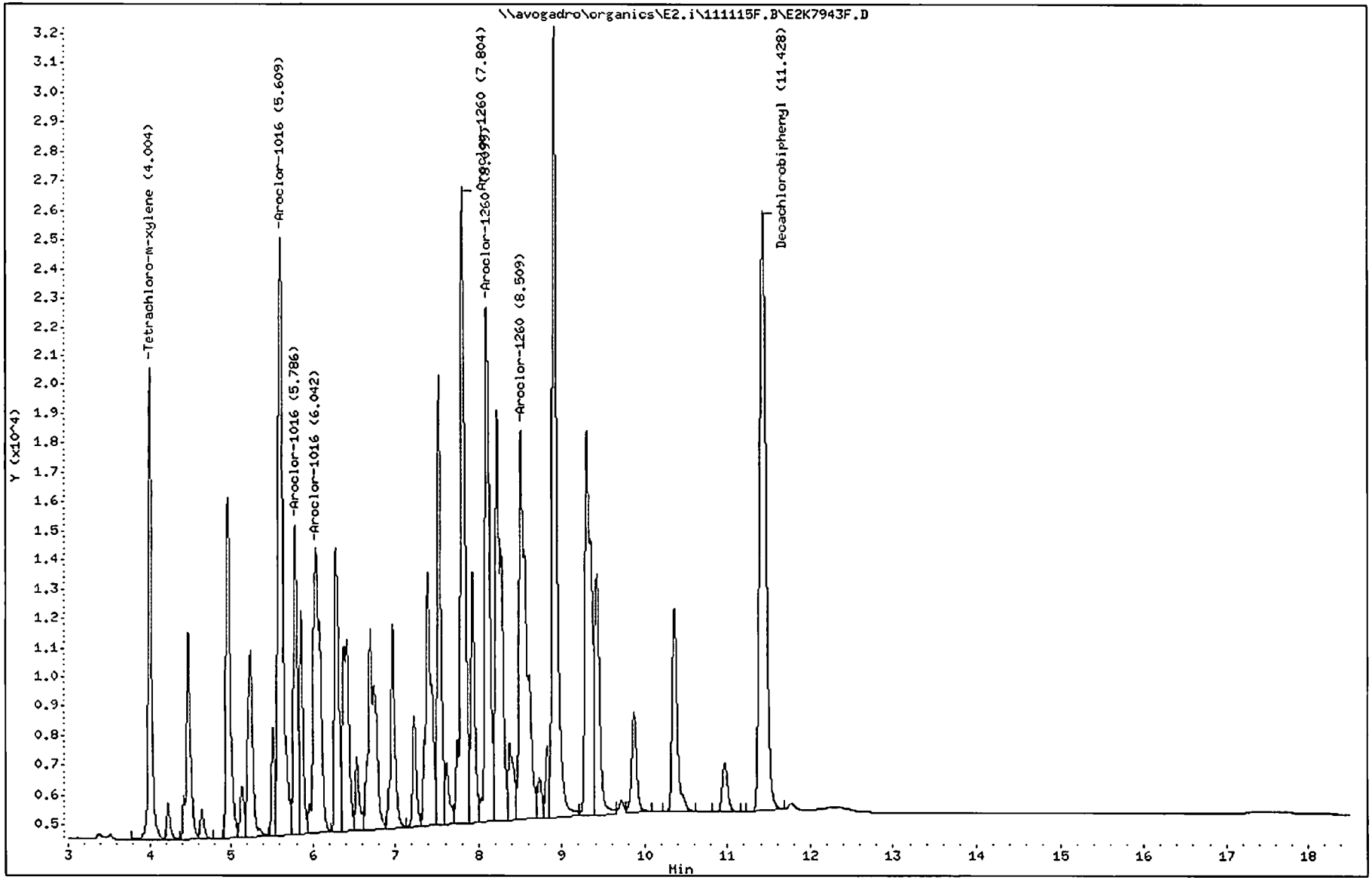
Data File: \\avogadro\organics\E2.i\111115F.B\E2K7943F.D
Report Date: 17-Nov-2011 10:58

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7943F.D
Date : 16-NOV-2011 02:10
Client ID: AR16603KG
Sample Info: AR16603KG,AR16603KG,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7943R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7943R.D
Lab Smp Id: AR16603KG Client Smp ID: AR16603KG
Inj Date : 16-NOV-2011 02:10
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16603KG,AR16603KG,,ar1660.sub,,
Misc Info : 2,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ar1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.633	4.629	0.004	260277	0.02000	0.020			(a)
6 Aroclor-1016					CAS #: 12674-11-2			
6.254	6.251	0.003	126346	0.40000	0.40	80.00- 120.00	100.00	(a)
6.507	6.504	0.003	496917	0.40000	0.41	363.62- 403.62	393.30	
6.662	6.658	0.004	217764	0.40000	0.40	152.00- 192.00	172.35	
Average of Peak Amounts =					0.40333			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.438	15.432	0.006	615559	0.04000	0.036			(a)
8 Aroclor-1260					CAS #: 11096-82-5			
9.263	9.257	0.006	434456	0.40000	0.35	80.00- 120.00	100.00	(a)
9.406	9.401	0.005	264715	0.40000	0.34	41.47- 81.47	60.93	
9.892	9.887	0.005	281077	0.40000	0.35	44.64- 84.64	64.70	
Average of Peak Amounts =					0.34667			

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7943R.D
Report Date: 17-Nov-2011 11:00

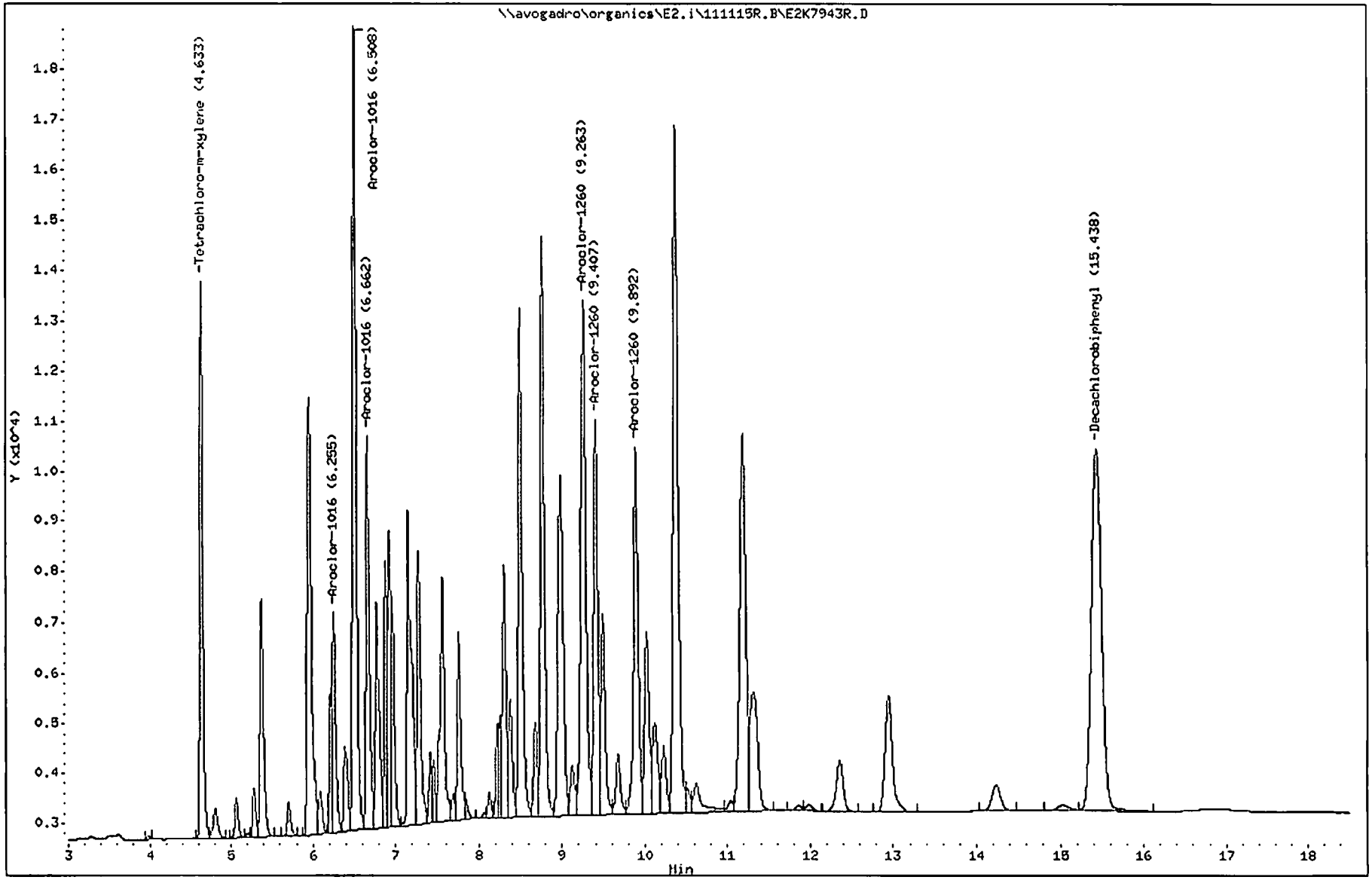
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7943R.D
Date : 16-NOV-2011 02:10
Client ID: AR16603KG
Sample Info: AR16603KG,AR16603KG,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.32



Data File: \\avogadro\organics\E2.i\111115F.B\E2K7974F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7974F.D
Lab Smp Id: AR16603KH Client Smp ID: AR16603KH
Inj Date : 16-NOV-2011 12:58
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16603KH,AR16603KH,,ar1660.sub,,
Misc Info : 2,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.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: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.004	4.001	0.003	445502	0.02000	0.021			(a)
5 Aroclor-1016					CAS #: 12674-11-2			
5.609	5.606	0.003	866885	0.40000	0.41	80.00- 120.00	100.00	(a)
5.786	5.783	0.003	329485	0.40000	0.41	18.01- 58.01	38.01	
6.042	6.040	0.002	565513	0.40000	0.40	45.24- 85.24	65.24	
Average of Peak Amounts =					0.40667			
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.426	11.422	0.004	1186321	0.04000	0.040			(a)
9 Aroclor-1260					CAS #: 11096-82-5			
7.803	7.799	0.004	989478	0.40000	0.40	80.00- 120.00	100.00	(a)
8.098	8.095	0.003	736314	0.40000	0.39	54.41- 94.41	74.41	
8.509	8.505	0.004	860617	0.40000	0.40	66.98- 106.98	86.98	
Average of Peak Amounts =					0.39667			

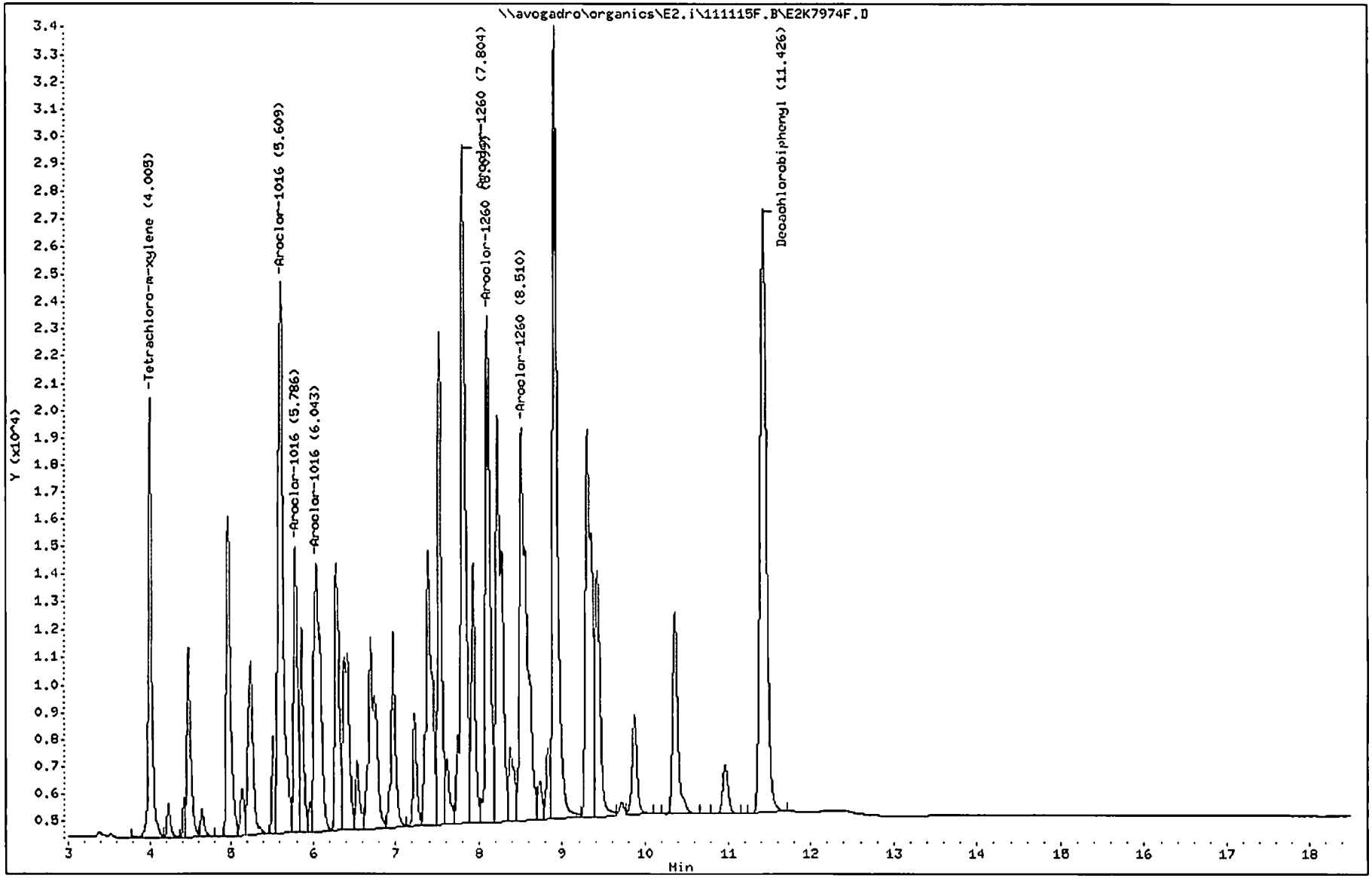
Data File: \\avogadro\organics\E2.i\111115F.B\E2K7974F.D
Report Date: 17-Nov-2011 10:59

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7974F.D
Date : 16-NOV-2011 12:58
Client ID: AR16603KH
Sample Info: AR16603KH,AR16603KH,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7974R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7974R.D
Lab Smp Id: AR16603KH Client Smp ID: AR16603KH
Inj Date : 16-NOV-2011 12:58
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AR16603KH,AR16603KH,,ar1660.sub,,
Misc Info : 2,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.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: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.632	4.629	0.003	266186	0.02000	0.020		(a)
6 Aroclor-1016					CAS #: 12674-11-2		
6.254	6.251	0.003	131005	0.40000	0.42	80.00- 120.00	100.00(a)
6.506	6.504	0.002	502567	0.40000	0.41	363.62- 403.62	383.62
6.661	6.658	0.003	225329	0.40000	0.41	152.00- 192.00	172.00
Average of Peak Amounts =					0.41333		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.433	15.432	0.001	690919	0.04000	0.040		(a)
8 Aroclor-1260					CAS #: 11096-82-5		
9.261	9.257	0.004	496500	0.40000	0.40	80.00- 120.00	100.00(a)
9.405	9.401	0.004	305223	0.40000	0.40	41.47- 81.47	61.48
9.890	9.887	0.003	320939	0.40000	0.40	44.64- 84.64	64.64
Average of Peak Amounts =					0.40000		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7974R.D
Report Date: 17-Nov-2011 11:00

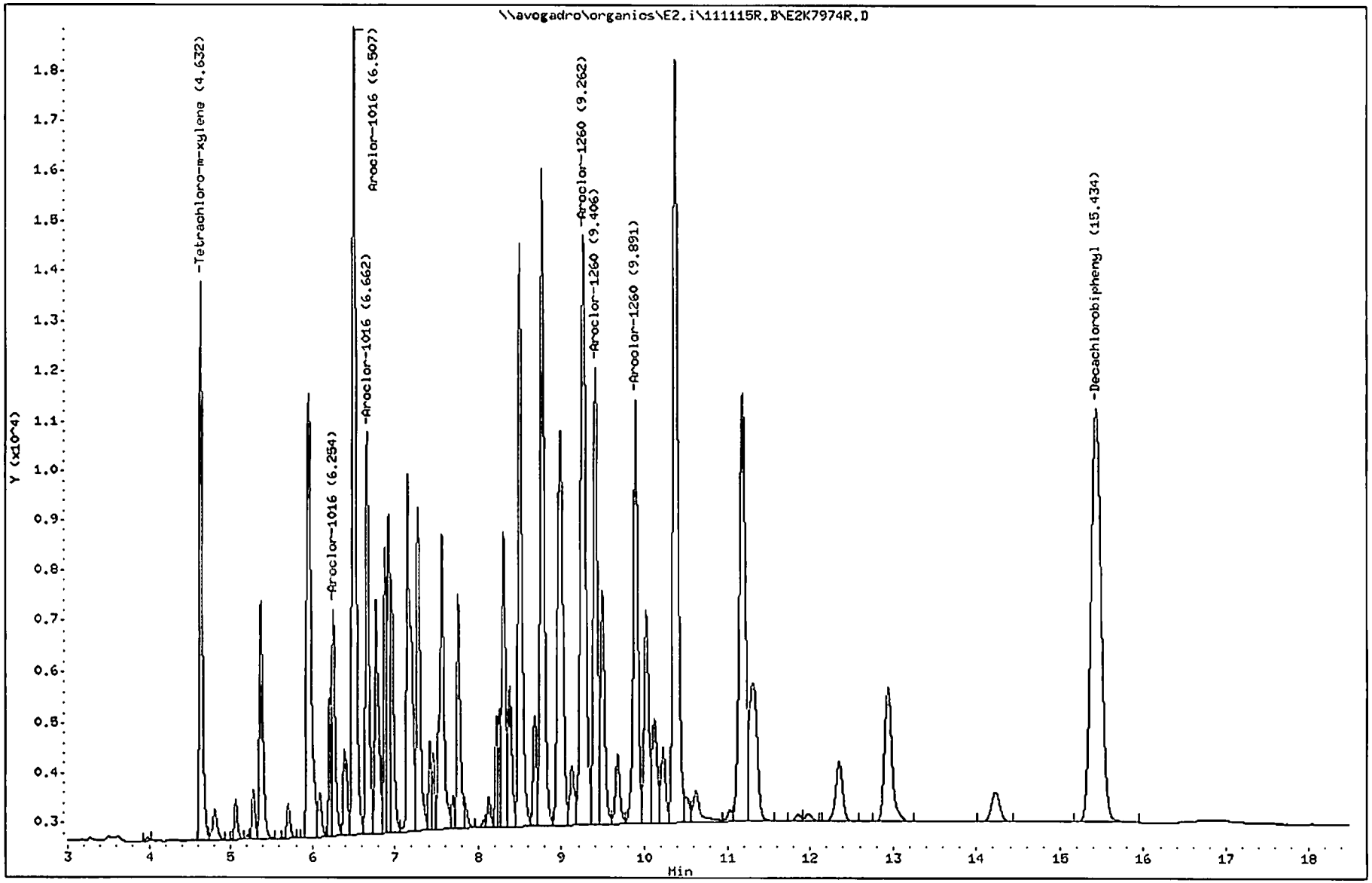
QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7974R.D
Date : 16-NOV-2011 12:58
Client ID: AR16603KH
Sample Info: AR16603KH,AR16603KH,,ar1660.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLK2M

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-62638

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7948F.D/E2K7948R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7948F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7948F.D
Lab Smp Id: MB-62638 Client Smp ID: ABLK2M
Inj Date : 16-NOV-2011 03:55
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : MB-62638,ABLK2M,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 21 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

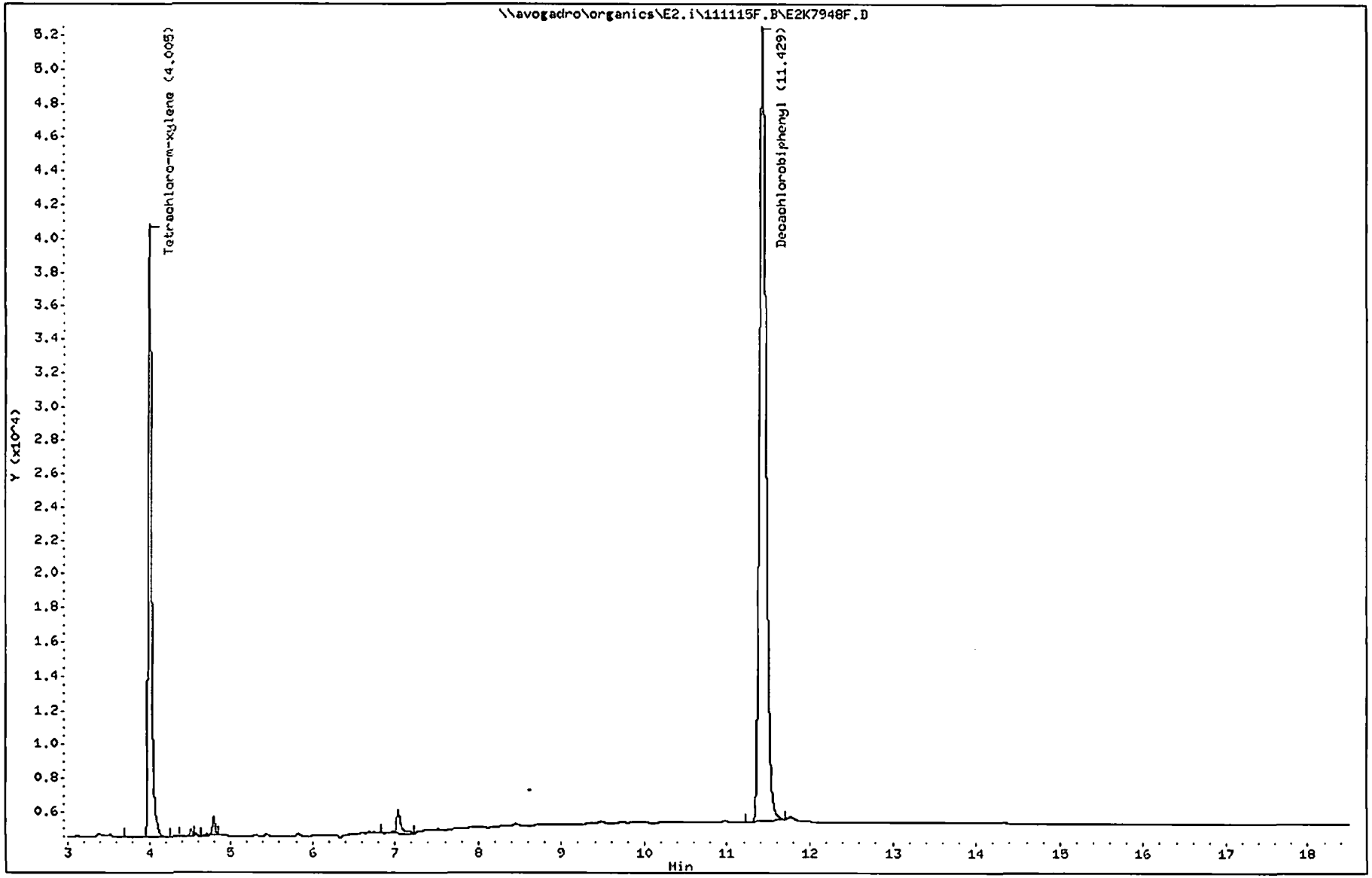
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.004	4.001	0.003	977778	0.04586	0.46		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.428	11.422	0.006	2595573	0.08857	0.88		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7948F.D
Date : 16-NOV-2011 03:55
Client ID: ABLK2H
Sample Info: MB-62638,ABLK2H,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7948R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7948R.D
Lab Smp Id: MB-62638 Client Smp ID: ABLK2M
Inj Date : 16-NOV-2011 03:55
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : MB-62638,ABLK2M,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 21 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

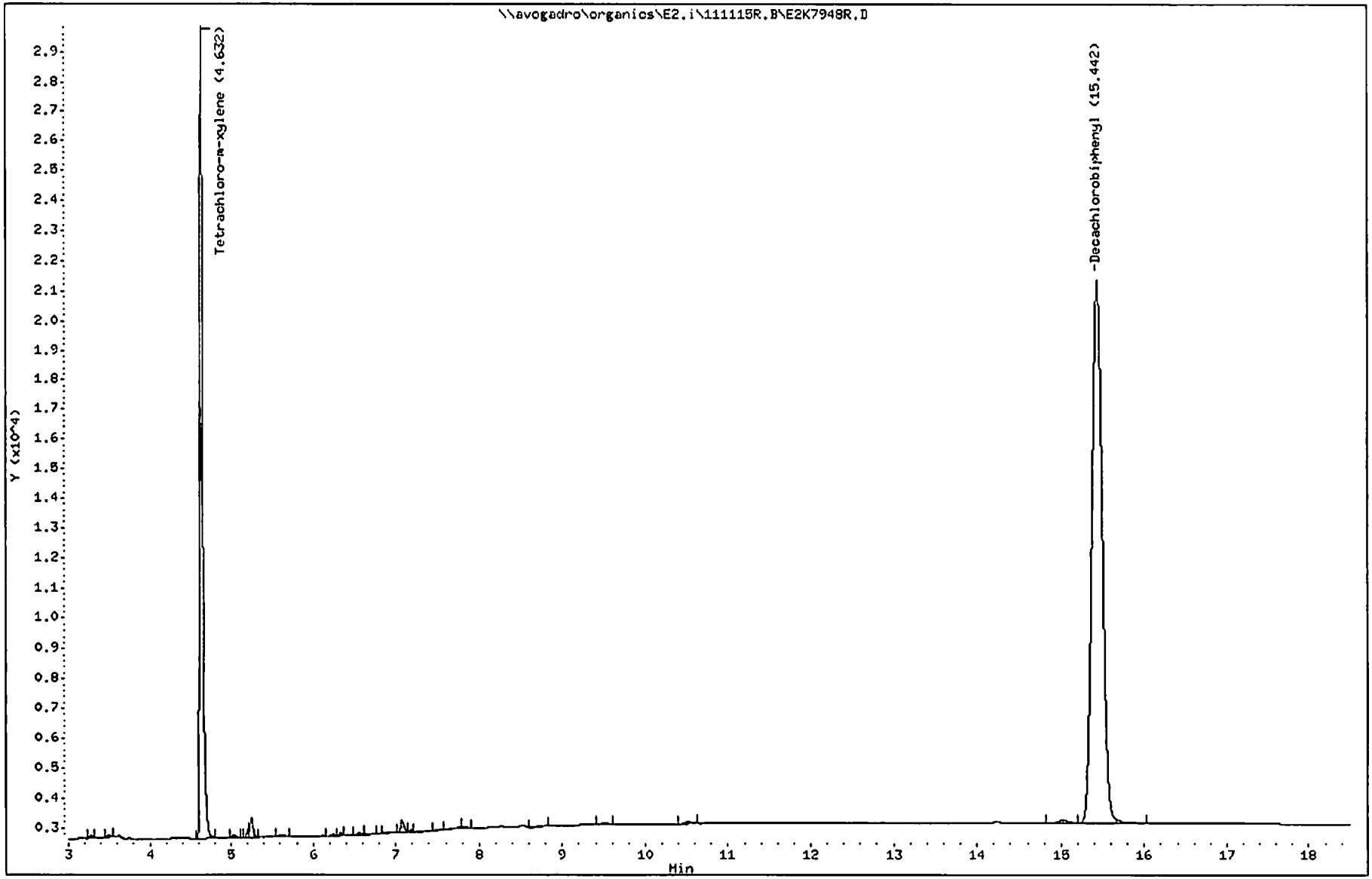
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.632	4.629	0.003	665532	0.05085	0.51		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.441	15.432	0.009	1561771	0.09014	0.90		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7948R.D
Date : 16-NOV-2011 03:55
Client ID: ABLK2M
Sample Info: MB-62638,ABLK2M,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLK2N

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-62719

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7969F.D/E2K7969R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 11/03/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7969F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7969F.D
Lab Smp Id: MB-62719 Client Smp ID: ABLK2N
Inj Date : 16-NOV-2011 11:14
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : MB-62719,ABLK2N,62719,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 42 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET111

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

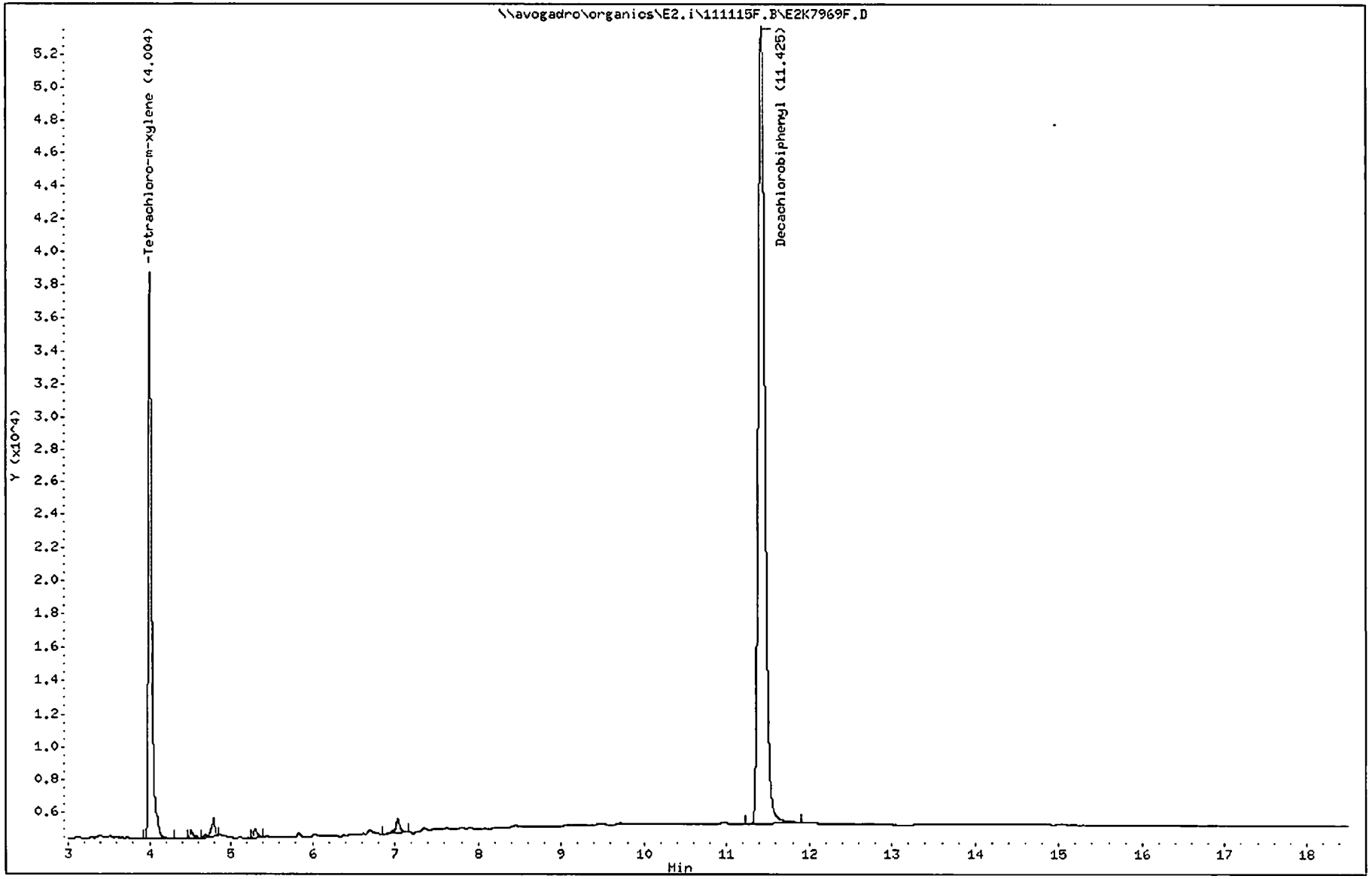
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.004	4.001	0.003	956667	0.04487	0.45		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.425	11.422	0.003	2711069	0.09251	0.92		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7969F.D
Date : 16-NOV-2011 11:14
Client ID: ABLK2N
Sample Info: MB-62719,ABLK2N,62719,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i

Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7969R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7969R.D
Lab Smp Id: MB-62719 Client Smp ID: ABLK2N
Inj Date : 16-NOV-2011 11:14
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : MB-62719,ABLK2N,62719,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 42 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

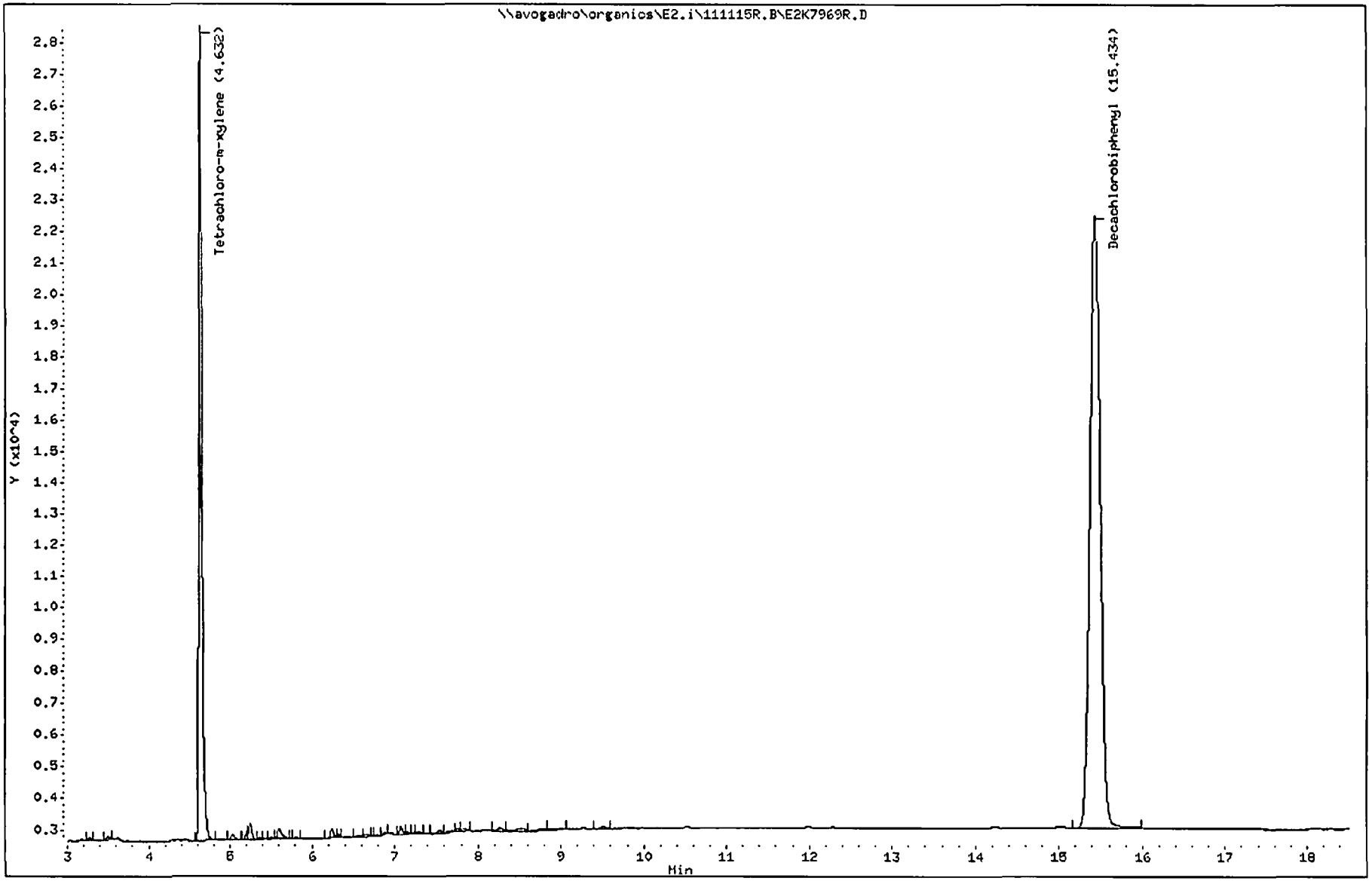
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.631	4.629	0.002	647941	0.04951	0.50		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.434	15.432	0.002	1664649	0.09608	0.96		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7969R.D
Date : 16-NOV-2011 11:14
Client ID: ABLK2N
Sample Info: MB-62719,ABLK2N,62719,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

1645801

EPA SAMPLE NO.

AIBLKKG(1)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKKG

Sample wt/vol: (g/mL) ML Lab File ID: E2K7942F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 11/16/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

1645844

EPA SAMPLE NO.

AIBLKKG(2)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKKG

Sample wt/vol: (g/mL) ML Lab File ID: E2K7942R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 11/16/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7942F.D
Report Date: 17-Nov-2011 10:58

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7942F.D
Lab Smp Id: AIBLKKG Client Smp ID: AIBLKKG
Inj Date : 16-NOV-2011 01:49
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AIBLKKG,AIBLKKG,,AIBLK.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 100 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: AIBLK.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

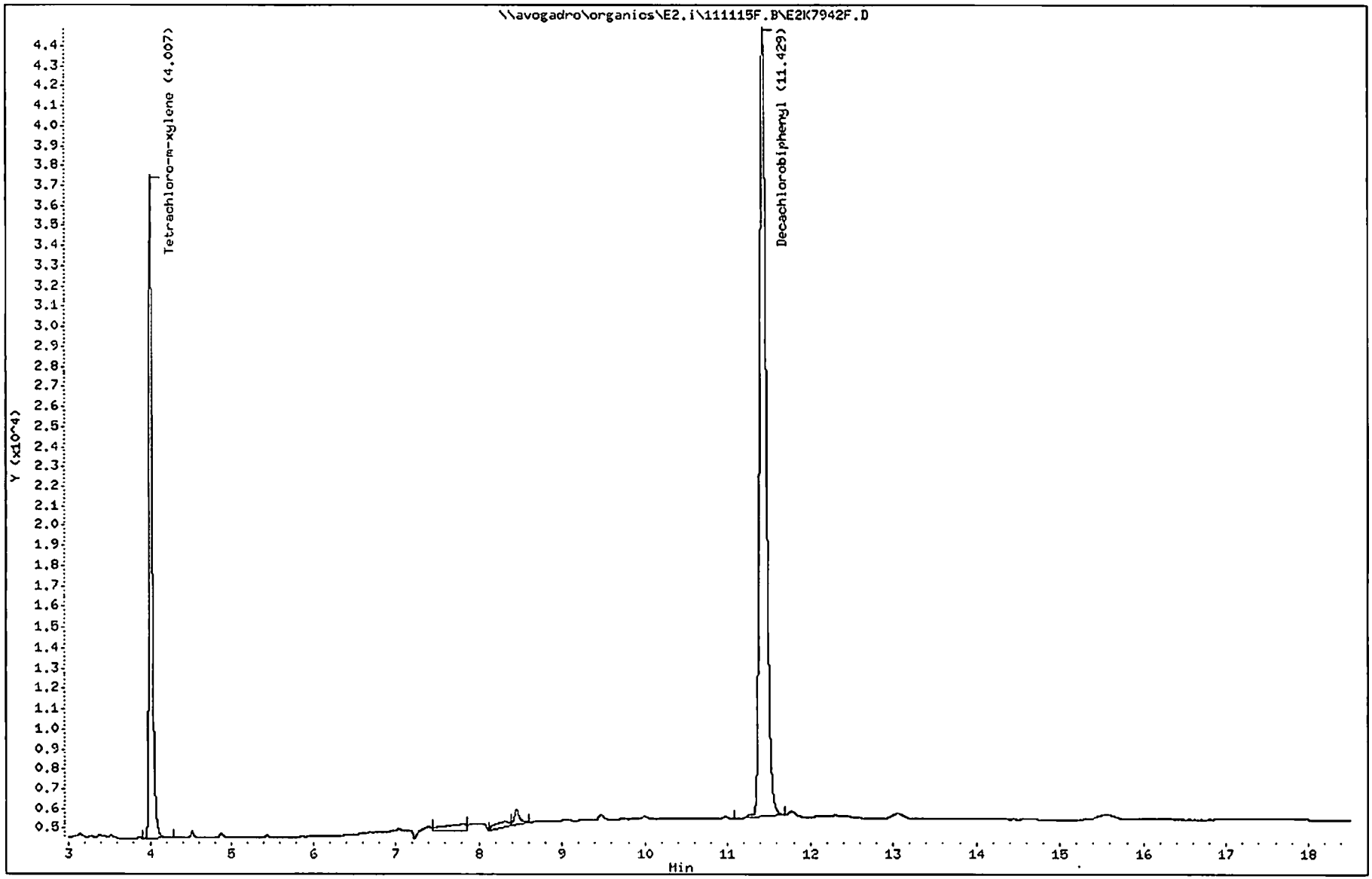
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.006	4.001	0.005	865031	0.02000	0.040			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.428	11.422	0.006	2170050	0.04000	0.074			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7942F.D
Date : 16-NOV-2011 01:49
Client ID: AIBLKKG
Sample Info: AIBLKKG,AIBLKKG,,AIBLK.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7942R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7942R.D
Lab Smp Id: AIBLKKG Client Smp ID: AIBLKKG
Inj Date : 16-NOV-2011 01:49
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AIBLKKG,AIBLKKG,,AIBLK.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 100 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: AIBLK.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

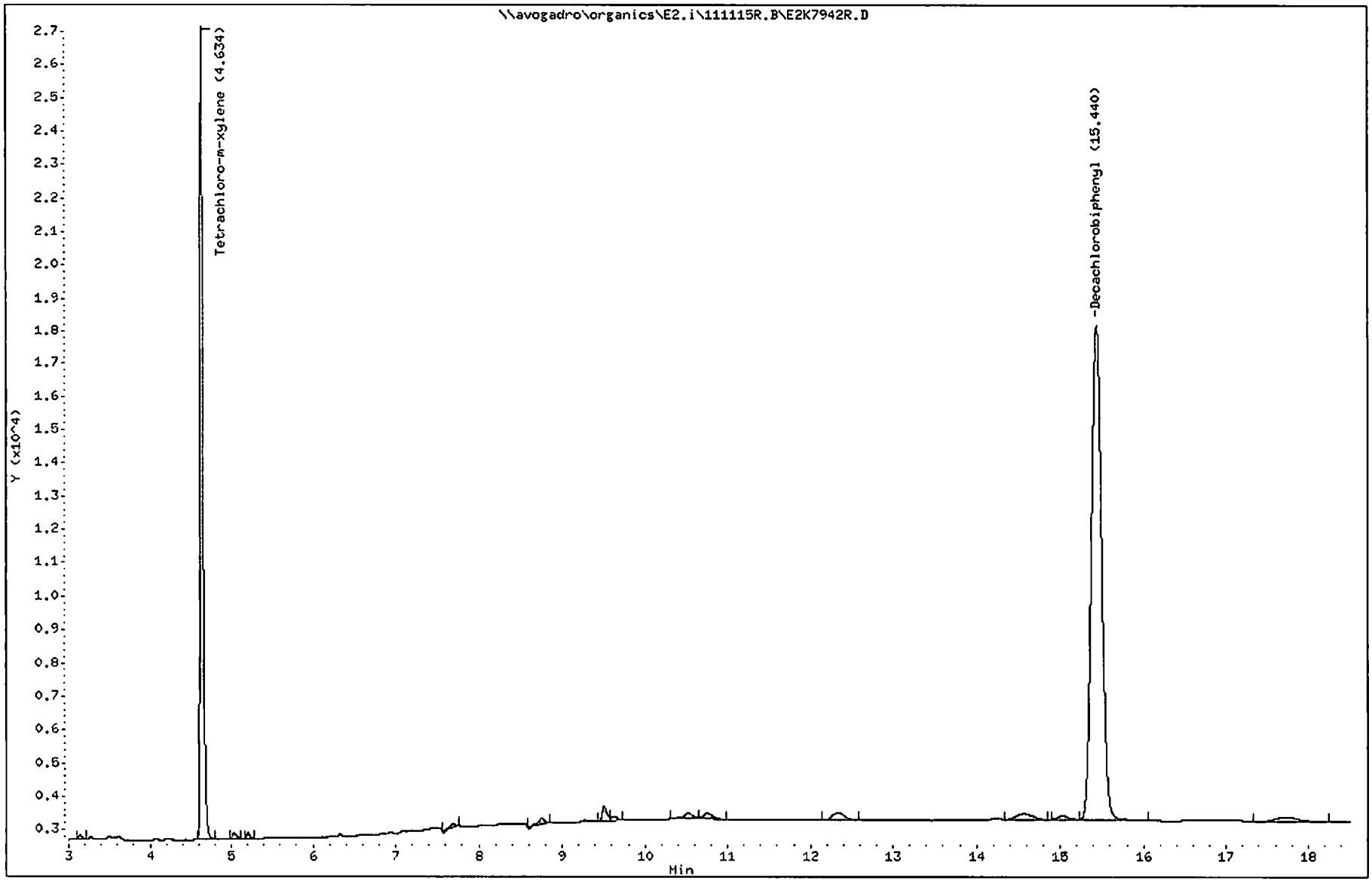
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.633	4.629	0.004	581674	0.02000	0.044			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
15.440	15.432	0.008	1267462	0.04000	0.073			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7942R.D
Date : 16-NOV-2011 01:49
Client ID: AIBLKKG
Instrument: E2.i
Sample Info: AIBLKKG,AIBLKKG,,AIBLK.sub,,
Volume Injected (uL): 1.0
Operator: DL SRC: DL
Column phase: CLPPestII
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

1645832

EPA SAMPLE NO.

AIBLKKH(1)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKKH

Sample wt/vol: (g/mL) ML Lab File ID: E2K7973F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 11/16/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

1645878

EPA SAMPLE NO.

AIBLKKH(2)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKKH

Sample wt/vol: (g/mL) ML Lab File ID: E2K7973R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 11/16/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
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
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7973F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7973F.D
Lab Smp Id: AIBLKKH Client Smp ID: AIBLKKH
Inj Date : 16-NOV-2011 12:37
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AIBLKKH,AIBLKKH,,AIBLK.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 100 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: AIBLK.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

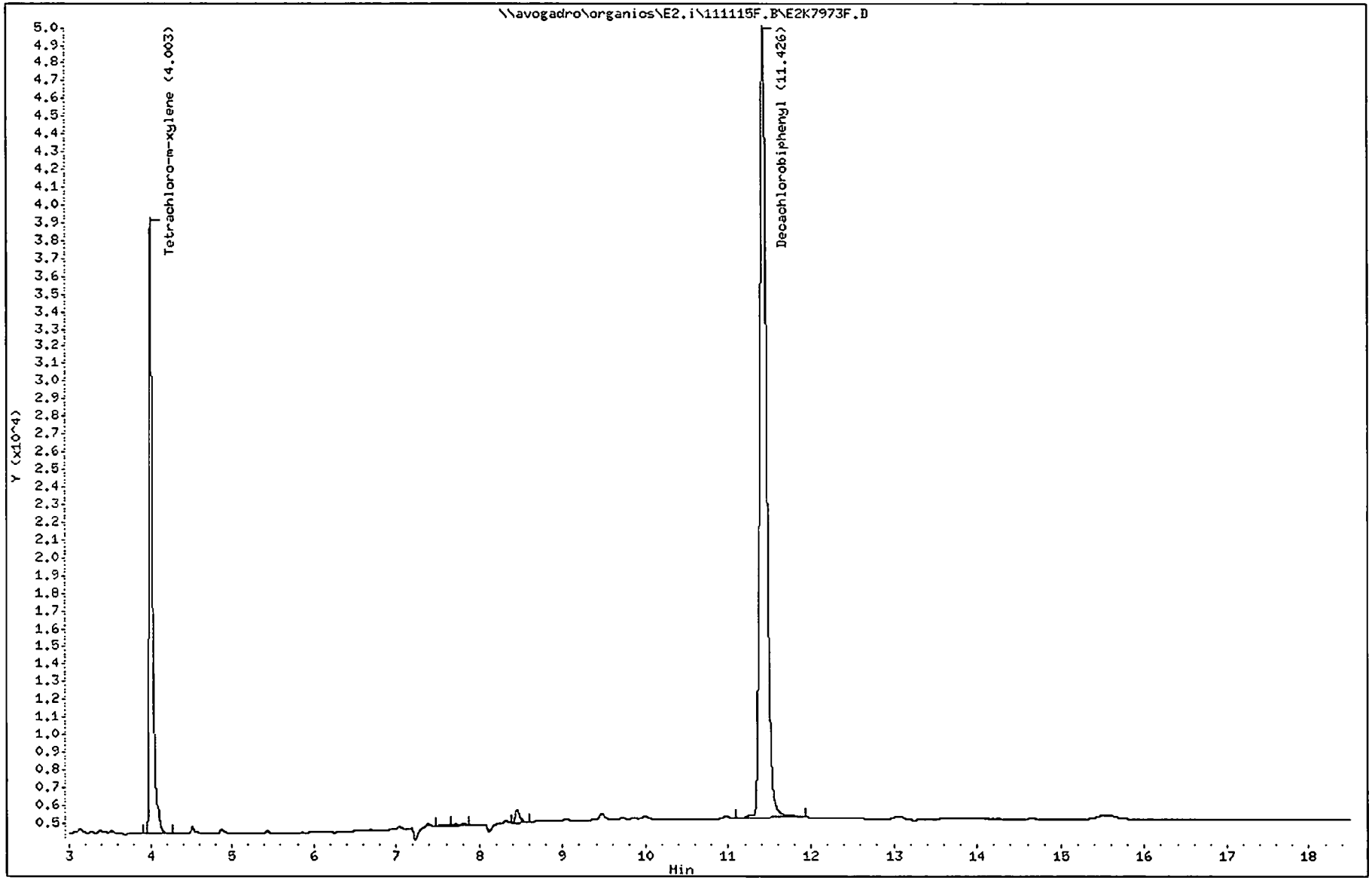
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
4.002	4.001	0.001	969429	0.02000	0.045			(a)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3			
11.425	11.422	0.003	2518335	0.04000	0.086			

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7973F.D
Date : 16-NOV-2011 12:37
Client ID: AIBLKKH
Sample Info: AIBLKKH,AIBLKKH,,AIBLK.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: DL
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7973R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7973R.D
Lab Smp Id: AIBLKKH Client Smp ID: AIBLKKH
Inj Date : 16-NOV-2011 12:37
Operator : DL SRC: DL Inst ID: E2.i
Smp Info : AIBLKKH,AIBLKKH,,AIBLK.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 100 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: AIBLK.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

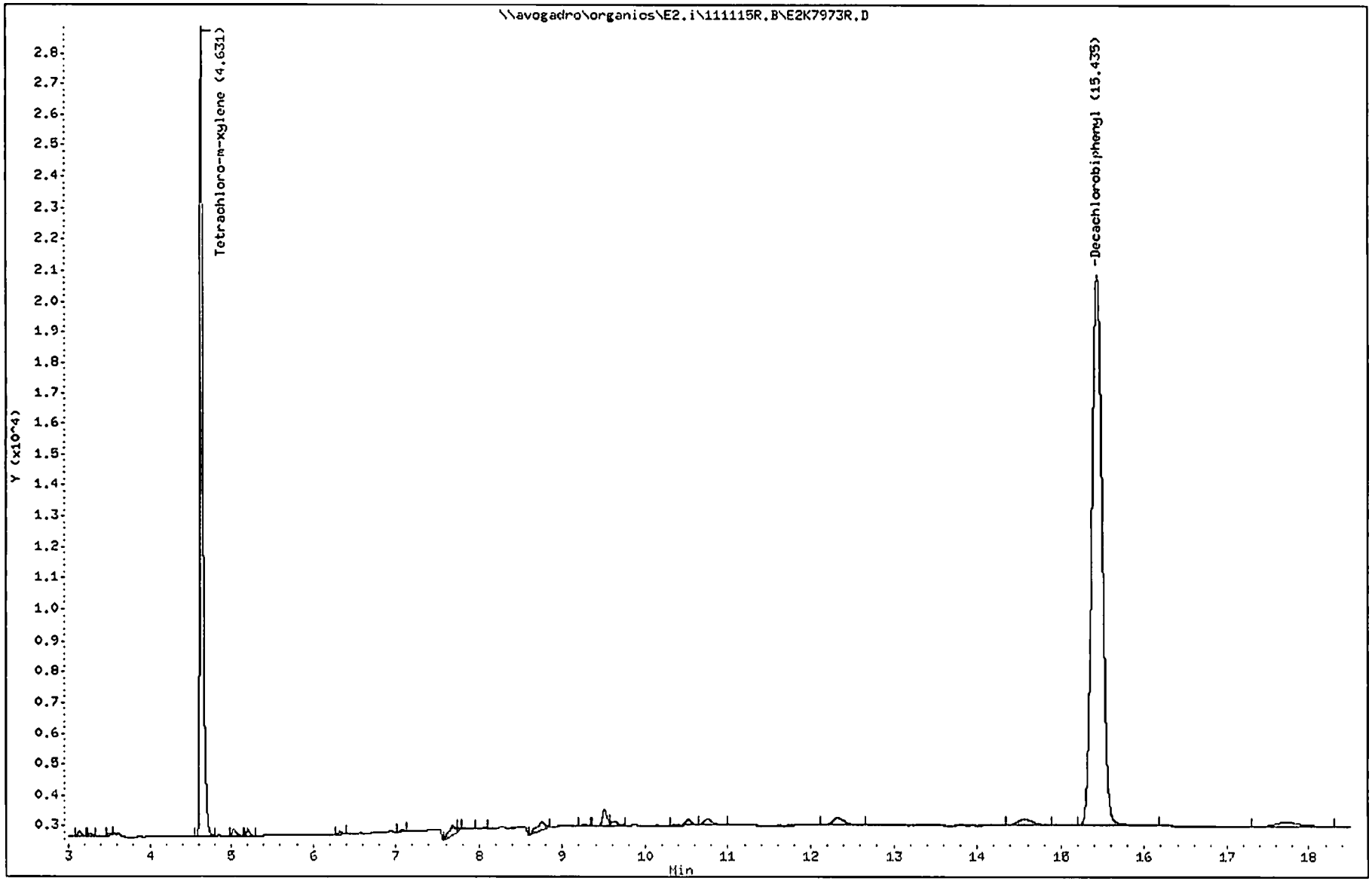
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.630	4.629	0.001	657585	0.02000	0.050		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.434	15.432	0.002	1537640	0.04000	0.089		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7973R.D
Date : 16-NOV-2011 12:37
Client ID: AIBLKKH
Sample Info: AIBLKKH,AIBLKKH,,AIBLK.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i

Operator: DL SRC: DL
Column diameter: 0.32



1000

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30X3MS(1)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-20AMS

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2K7971F.D

% Moisture: Decanted: (Y/N) Date Received: 10/29/2011

Extraction: (Type) SEPF Date Extracted: 11/03/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
12674-11-2	Aroclor-1016	2.2	
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	1.8	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30X3MS(2)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-20AMS

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2K7971R.D

% Moisture: Decanted: (Y/N) Date Received: 10/29/2011

Extraction: (Type) SEPF Date Extracted: 11/03/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
12674-11-2	Aroclor-1016	2.7	
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	1.8	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7971F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7971F.D
Lab Smp Id: K2200-20AMS Client Smp ID: H30X3MS
Inj Date : 16-NOV-2011 11:56
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-20AMS,,62719,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 44 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

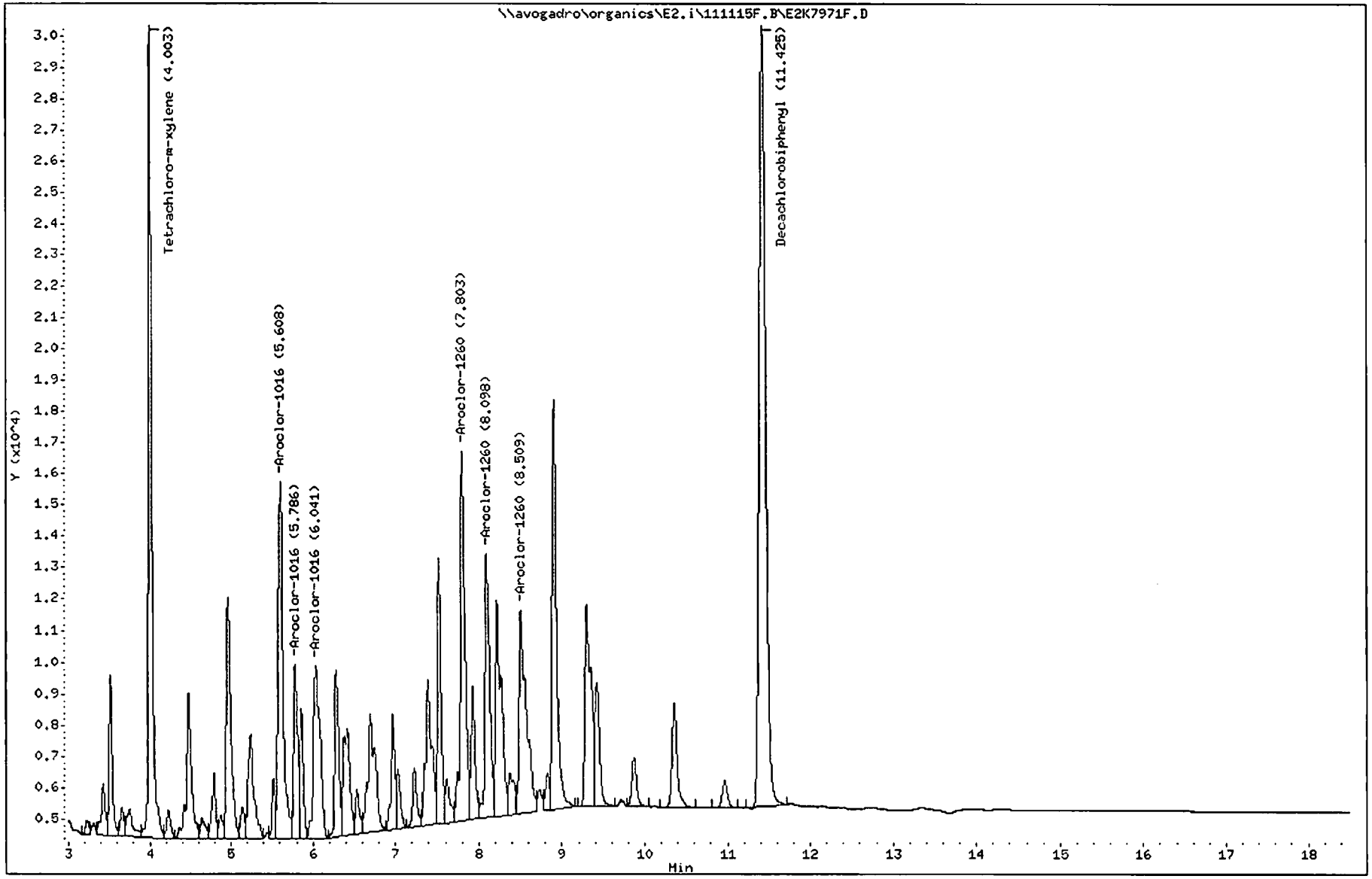
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.003	4.001	0.002	728732	0.03418	0.34		
5 Aroclor-1016					CAS #: 12674-11-2		
5.608	5.606	0.002	472093	0.22334	2.2	80.00- 120.00	100.00
5.786	5.783	0.003	181980	0.22642	2.3	18.01- 58.01	38.55
6.040	6.040	0.000	317206	0.22282	2.2	45.24- 85.24	67.19
Average of Peak Concentrations =					2.2		
9 Aroclor-1260					CAS #: 11096-82-5		
7.803	7.799	0.004	468537	0.18823	1.9	80.00- 120.00	100.00
8.097	8.095	0.002	332194	0.17536	1.8	54.41- 94.41	70.90
8.508	8.505	0.003	381332	0.17850	1.8	66.98- 106.98	81.39
Average of Peak Concentrations =					1.8		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.424	11.422	0.002	1345234	0.04590	0.46		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7971F.D
Date : 16-NOV-2011 11:56
Client ID: H30X3MS
Sample Info: K2200-20AMS,,62719,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7971R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7971R.D
Lab Smp Id: K2200-20AMS Client Smp ID: H30X3MS
Inj Date : 16-NOV-2011 11:56
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-20AMS,,62719,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 44 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER

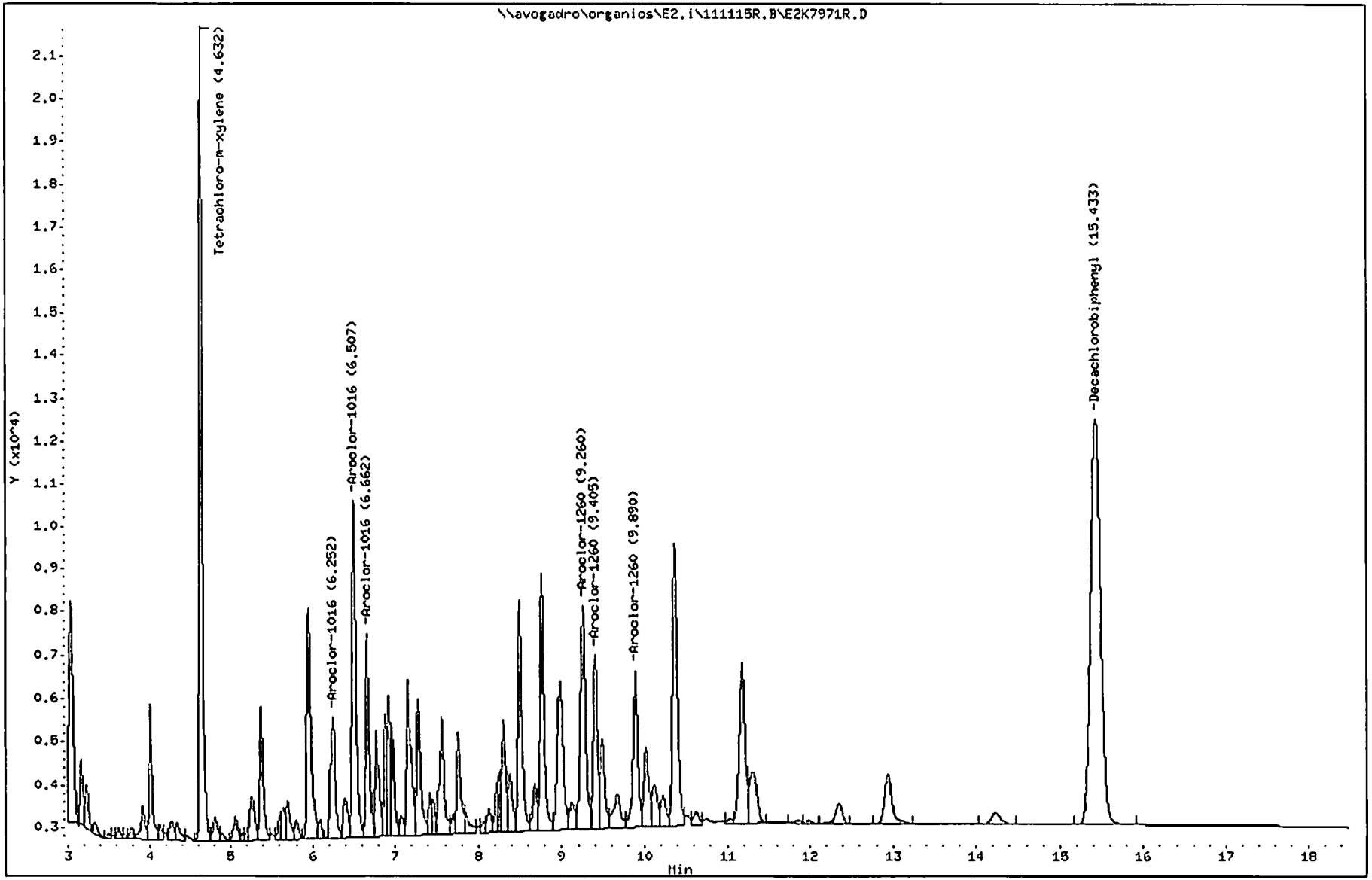
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.631	4.629	0.002	468227	0.03577	0.36		
6 Aroclor-1016					CAS #: 12674-11-2		
6.252	6.251	0.001	113558	0.36127	3.6	80.00- 120.00	100.00
6.506	6.504	0.002	255962	0.20971	2.1	363.62- 403.62	225.40
6.661	6.658	0.003	137603	0.25027	2.5	152.00- 192.00	121.17
Average of Peak Concentrations =					2.7		
8 Aroclor-1260					CAS #: 11096-82-5		
9.260	9.257	0.003	224429	0.17955	1.8	80.00- 120.00	100.00
9.404	9.401	0.003	140125	0.18232	1.8	41.47- 81.47	62.44
9.889	9.887	0.002	148926	0.18411	1.8	44.64- 84.64	66.36
Average of Peak Concentrations =					1.8		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.432	15.432	0.000	794366	0.04585	0.46		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7971R.D
Date : 16-NOV-2011 11:56
Client ID: H30X3MS
Sample Info: K2200-20AHS,,62719,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30X3MSD(1)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-20AMSD

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2K7972F.D

% Moisture: Decanted: (Y/N) Date Received: 10/29/2011

Extraction: (Type) SEPF Date Extracted: 11/03/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
12674-11-2	Aroclor-1016	2.0	
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	1.5	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H30X3MSD(2)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K2200-20AMSD

Sample wt/vol: 500 (g/mL) ML Lab File ID: E2K7972R.D

% Moisture: Decanted: (Y/N) Date Received: 10/29/2011

Extraction: (Type) SEPF Date Extracted: 11/03/2011

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
12674-11-2	Aroclor-1016	2.4	
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	1.4	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7972F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7972F.D
Lab Smp Id: K2200-20AMSD Client Smp ID: H30X3MSD
Inj Date : 16-NOV-2011 12:16
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-20AMSD,,62719,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 45 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

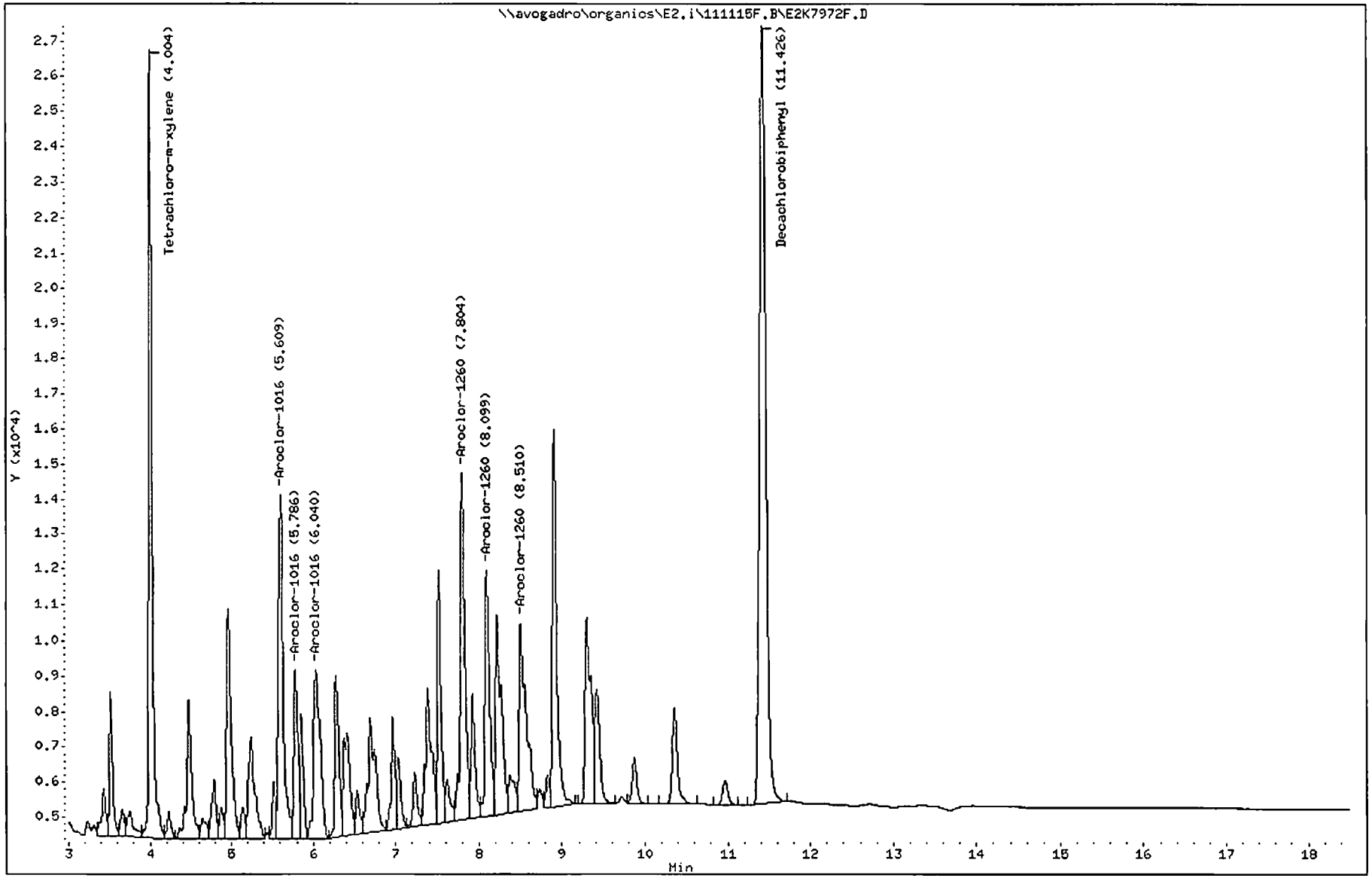
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.003	4.001	0.002	633176	0.02970	0.30		
5 Aroclor-1016					CAS #: 12674-11-2		
5.608	5.606	0.002	405564	0.19186	1.9	80.00- 120.00	100.00
5.786	5.783	0.003	159267	0.19991	2.0	18.01- 53.01	39.27
6.040	6.040	0.000	279721	0.19649	2.0	45.24- 85.24	68.97
Average of Peak Concentrations =					2.0		
9 Aroclor-1260					CAS #: 11096-82-5		
7.804	7.799	0.005	390616	0.15693	1.6	80.00- 120.00	100.00
8.098	8.095	0.003	274261	0.14478	1.4	54.41- 94.41	70.21
8.509	8.505	0.004	314762	0.14734	1.5	66.98- 106.98	80.58
Average of Peak Concentrations =					1.5		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.425	11.422	0.003	1185032	0.04044	0.40		

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7972F.D
Date : 16-NOV-2011 12:16
Client ID: H30X3MSD
Sample Info: K2200-20AMSD,,62719,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7972R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7972R.D
Lab Smp Id: K2200-20AMSD Client Smp ID: H30X3MSD
Inj Date : 16-NOV-2011 12:16
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : K2200-20AMSD,,62719,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 45 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER

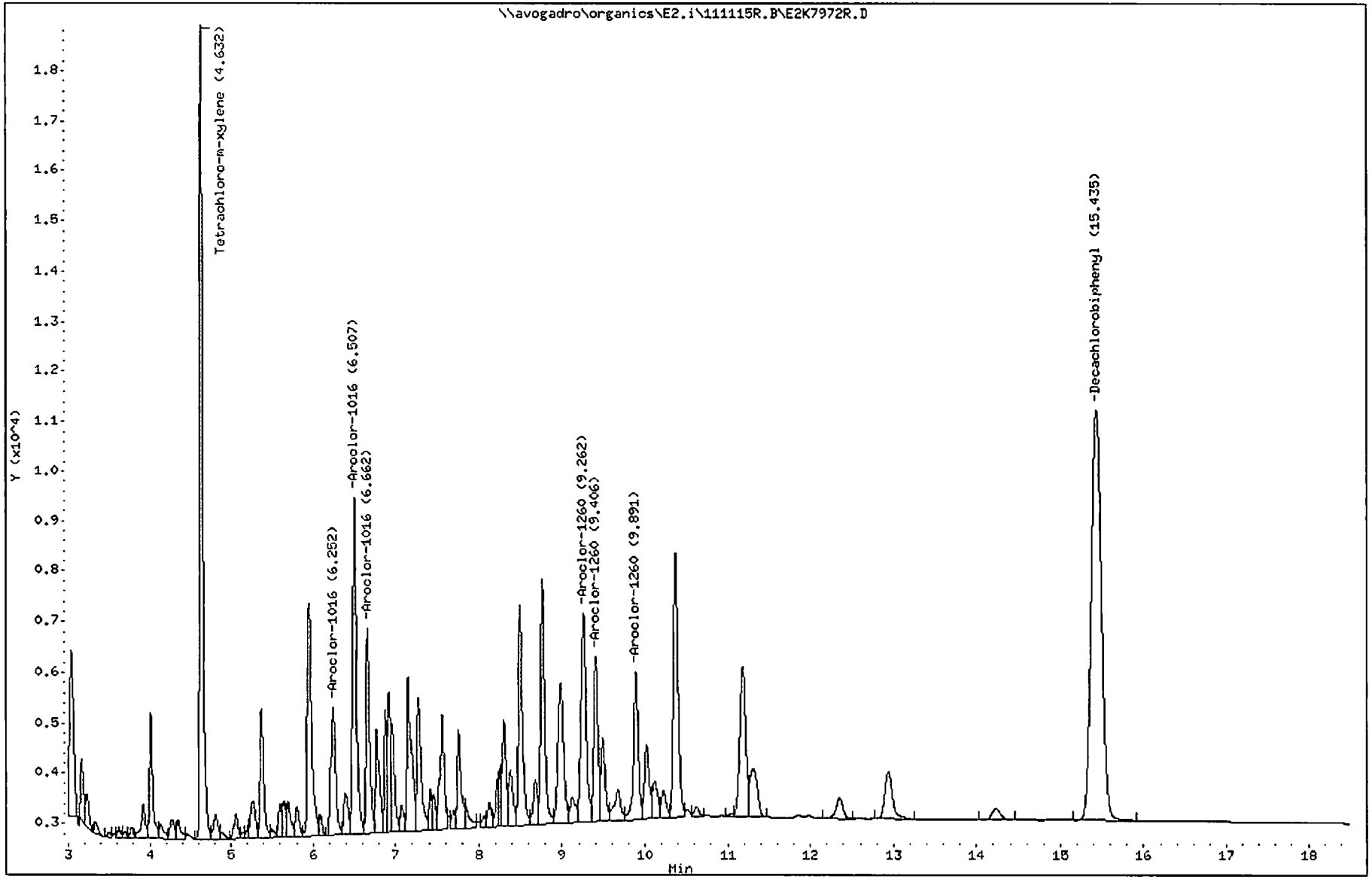
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.631	4.629	0.002	401737	0.03069	0.31		
6 Aroclor-1016					CAS #: 12674-11-2		
6.252	6.251	0.001	100615	0.32010	3.2	80.00- 120.00	100.00
6.507	6.504	0.003	216187	0.17712	1.8	363.62- 403.62	214.87
6.662	6.658	0.004	117386	0.21350	2.1	152.00- 192.00	116.67
Average of Peak Concentrations =					2.4		
8 Aroclor-1260					CAS #: 11096-82-5		
9.261	9.257	0.004	178293	0.14264	1.4	80.00- 120.00	100.00
9.406	9.401	0.005	111814	0.14548	1.4	41.47- 81.47	62.71
9.891	9.887	0.004	115980	0.14338	1.4	44.64- 84.64	65.05
Average of Peak Concentrations =					1.4		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.434	15.432	0.002	692241	0.03996	0.40		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7972R.D
Date : 16-NOV-2011 12:16
Client ID: H30X3MSD
Sample Info: K2200-20AMSD,,62719,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS2M(1)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-62638

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7949F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
12674-11-2	Aroclor-1016	1.0	J
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	0.91	J
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS2M(2)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-62638

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7949R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 11/02/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
12674-11-2	Aroclor-1016	0.93	J
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	0.83	J
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7949F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7949F.D
Lab Smp Id: LCS-62638 Client Smp ID: ALCS2M
Inj Date : 16-NOV-2011 04:15
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : LCS-62638,ALCS2M,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 22 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.004	4.001	0.003	993064	0.04657	0.46		
5 Aroclor-1016					CAS #: 12674-11-2		
5.608	5.606	0.002	209238	0.09899	0.99	80.00- 120.00	100.00
5.786	5.783	0.003	78824	0.09894	0.99	18.01- 58.01	37.67
6.042	6.040	0.002	143398	0.10073	1.0	45.24- 85.24	68.53
		Average of Peak Concentrations =			1.0		
9 Aroclor-1260					CAS #: 11096-82-5		
7.804	7.799	0.005	224669	0.09026	0.90	80.00- 120.00	100.00(a)
8.099	8.095	0.004	173710	0.09170	0.92	54.41- 94.41	77.32
8.509	8.505	0.004	194272	0.09094	0.91	66.98- 106.98	86.47
		Average of Peak Concentrations =			0.91		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.425	11.422	0.003	2751028	0.09388	0.94		

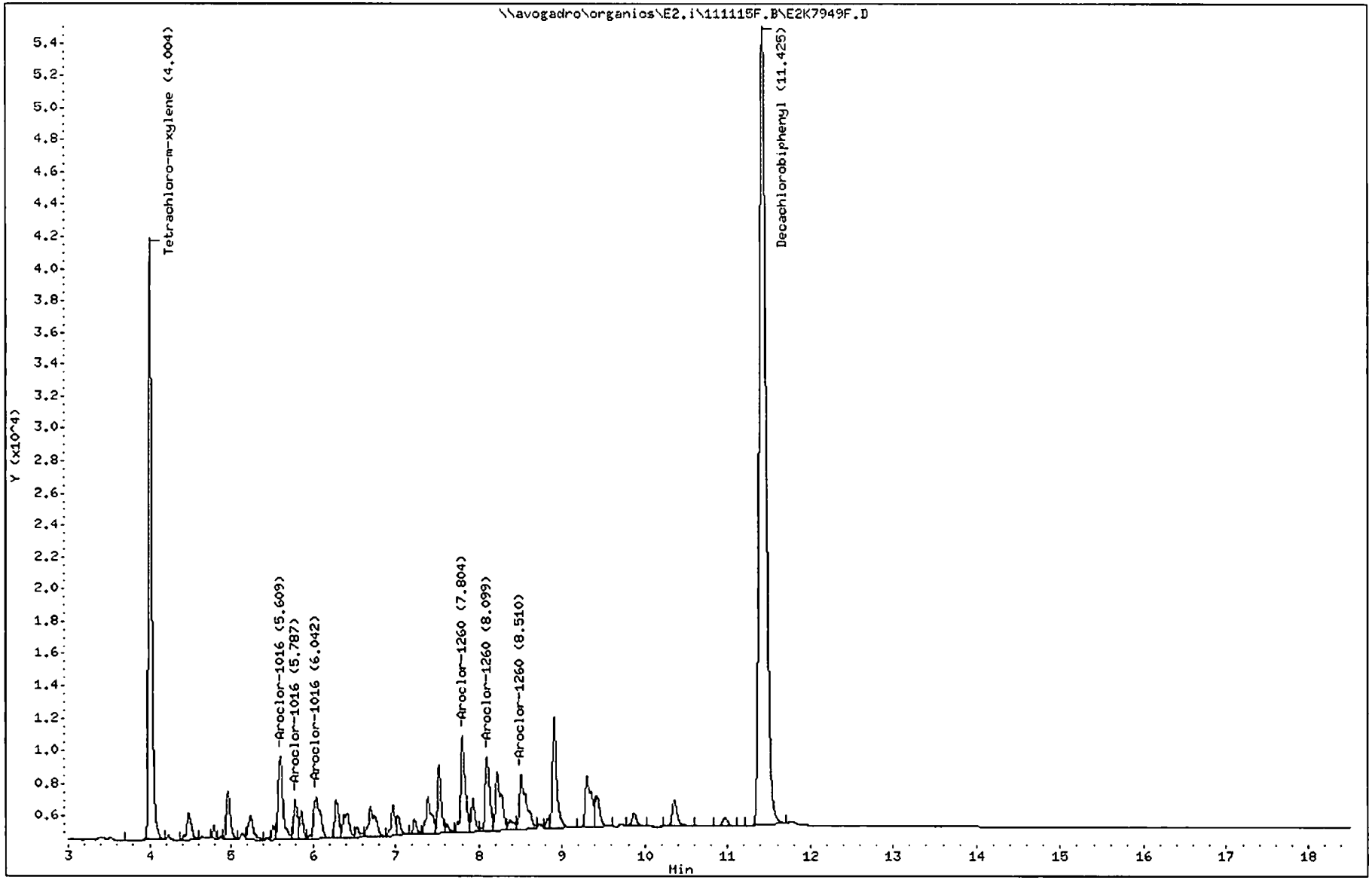
Data File: \\avogadro\organics\E2.i\111115F.B\E2K7949F.D
Report Date: 17-Nov-2011 10:59

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7949F.D
Date : 16-NOV-2011 04:15
Client ID: ALCS2M
Sample Info: LCS-62638,ALCS2M,62638,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7949R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7949R.D
Lab Smp Id: LCS-62638 Client Smp ID: ALCS2M
Inj Date : 16-NOV-2011 04:15
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : LCS-62638,ALCS2M,62638,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\Avogadro\Organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 22 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

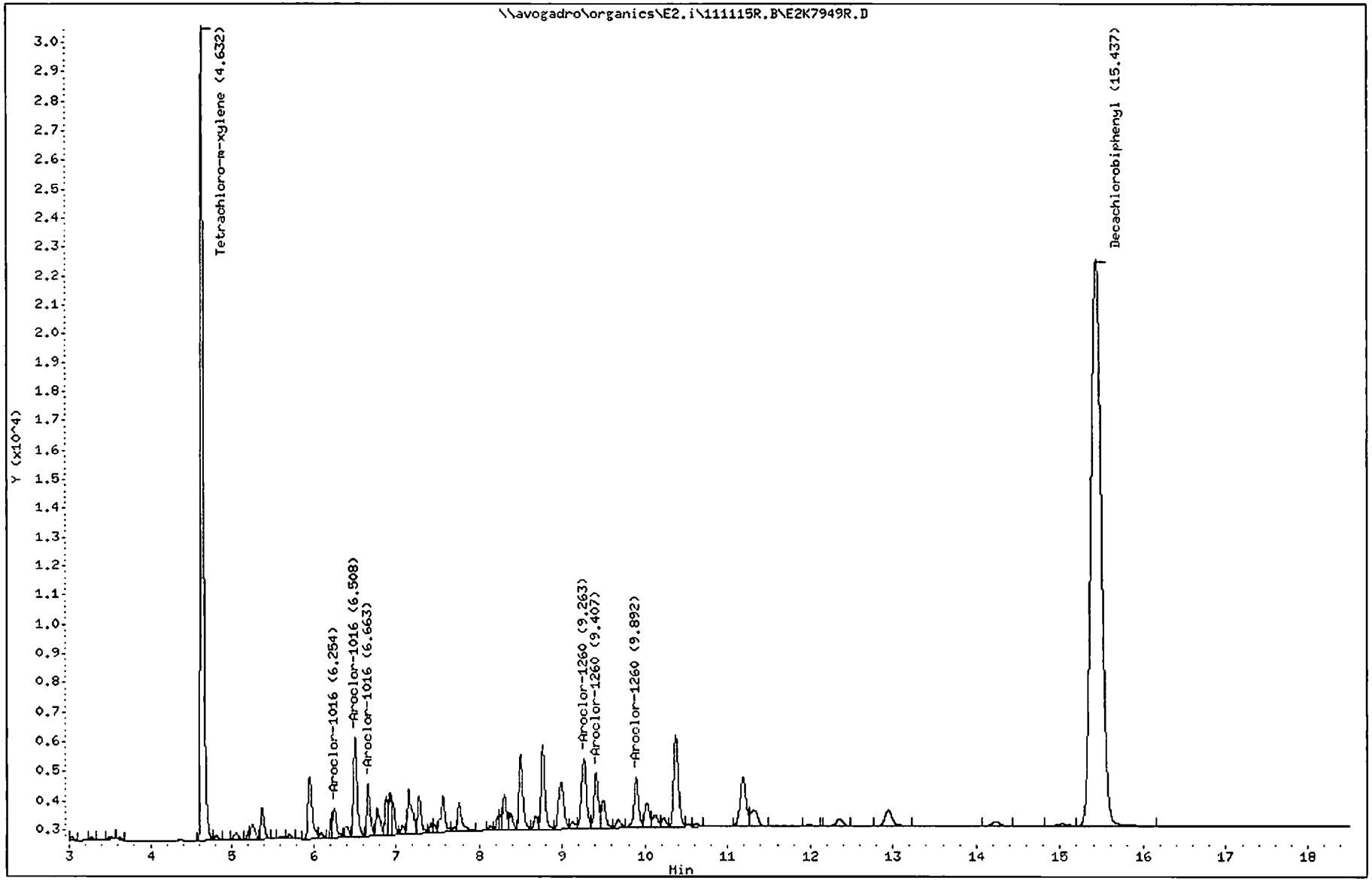
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
S 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.632	4.629	0.003	677974	0.05180	0.52		
6 Aroclor-1016					CAS #: 12674-11-2		
6.253	6.251	0.002	31124	0.09902	0.99	80.00- 120.00	100.00(a)
6.507	6.504	0.003	105907	0.08677	0.87	363.62- 403.62	340.27
6.662	6.658	0.004	50731	0.09227	0.92	152.00- 192.00	163.00
Average of Peak Concentrations =					0.93		
8 Aroclor-1260					CAS #: 11096-82-5		
9.262	9.257	0.005	101709	0.08137	0.81	80.00- 120.00	100.00(a)
9.406	9.401	0.005	64492	0.08391	0.84	41.47- 81.47	63.41
9.892	9.887	0.005	67047	0.08289	0.83	44.64- 84.64	65.92
Average of Peak Concentrations =					0.83		
S 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.437	15.432	0.005	1668285	0.09629	0.96		

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7949R.D
Report Date: 17-Nov-2011 11:00

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7949R.D
Date : 16-NOV-2011 04:15
Client ID: ALCS2M
Instrument: E2.i
Sample Info: LCS-62638,ALCS2M,62638,somaro.sub,,
Volume Injected (uL): 1.0
Operator: DL SRC: LIMS
Column phase: CLPPestII
Column diameter: 0.32



1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS2N(1)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-62719

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7970F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 11/03/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
12674-11-2	Aroclor-1016	0.96	J
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	0.92	J
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS2N(2)

Lab Name: MITKEM LABORATORIES Contract: EP-W-11-033

Lab Code: MITKEM Case No.: 41926 Mod. Ref No.: SDG No.: H30S7

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-62719

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2K7970R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 11/03/2011

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/16/2011

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) µG/L	Q
12674-11-2	Aroclor-1016	0.91	J
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	0.86	J
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7970F.D
Report Date: 17-Nov-2011 10:59

Spectrum Analytical, Inc. RI Division

8080 PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115F.B\E2K7970F.D
Lab Smp Id: LCS-62719 Client Smp ID: ALCS2N
Inj Date : 16-NOV-2011 11:35
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : LCS-62719,ALCS2N,62719,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115F.B\E2_ARO_5_F.m
Meth Date : 16-Nov-2011 17:19 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807F.D
Als bottle: 43 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.004	4.001	0.003	980148	0.04597	0.46		
5 Aroclor-1016					CAS #: 12674-11-2		
5.609	5.606	0.003	199213	0.09424	0.94	80.00- 120.00	100.00(a)
5.787	5.783	0.004	76893	0.09652	0.96	18.01- 58.01	38.60
6.042	6.040	0.002	139115	0.09772	0.98	45.24- 85.24	69.83
Average of Peak Concentrations =					0.96		
9 Aroclor-1260					CAS #: 11096-82-5		
7.804	7.799	0.005	242725	0.09751	0.98	80.00- 120.00	100.00(a)
8.099	8.095	0.004	164552	0.08687	0.87	54.41- 94.41	67.79
8.509	8.505	0.004	195638	0.09158	0.92	66.98- 106.98	80.60
Average of Peak Concentrations =					0.92		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
11.424	11.422	0.002	2668095	0.09105	0.91		

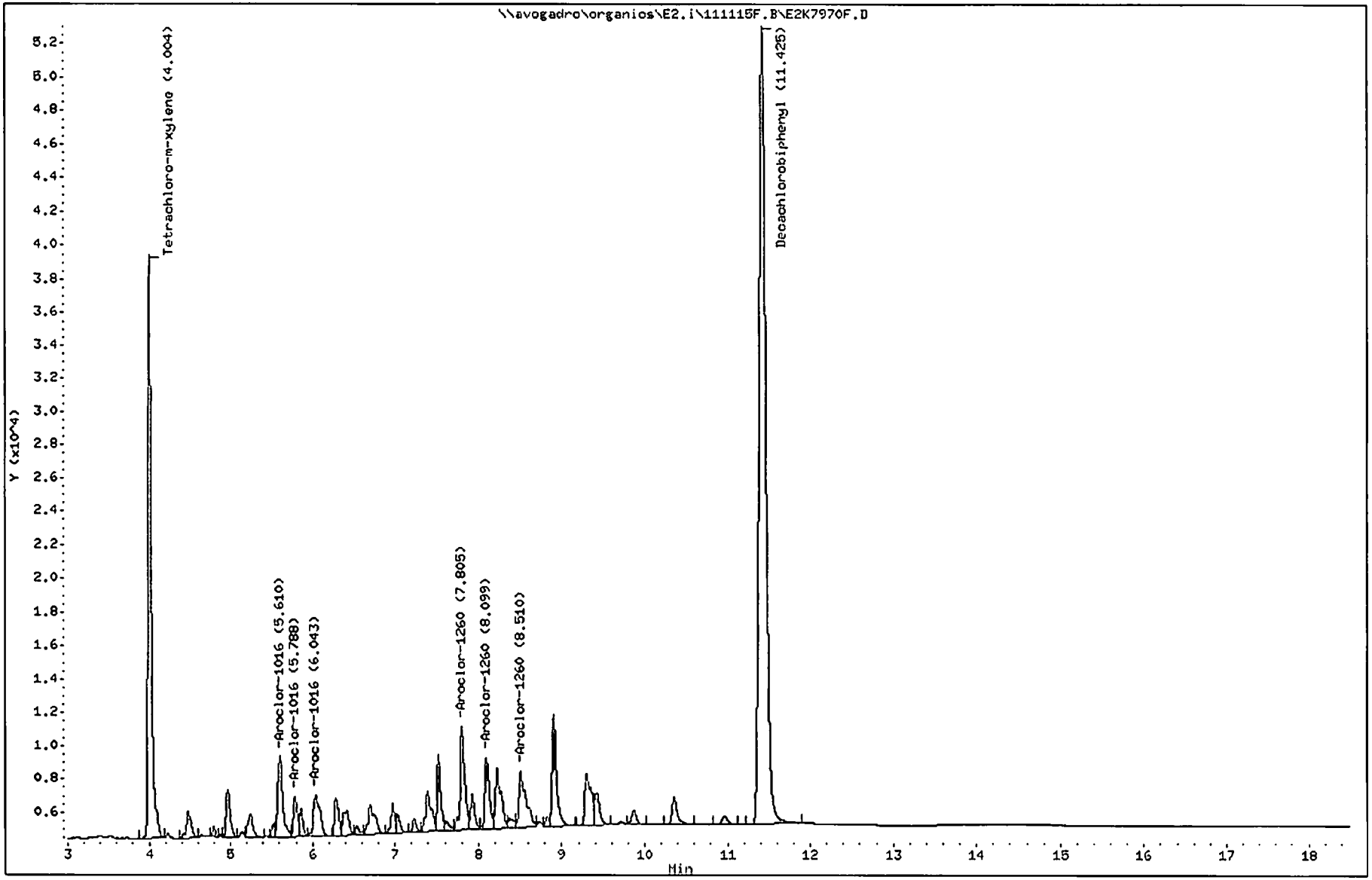
Data File: \\avogadro\organics\E2.i\111115F.B\E2K7970F.D
Report Date: 17-Nov-2011 10:59

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115F.B\E2K7970F.D
Date : 16-NOV-2011 11:35
Client ID: ALCS2N
Sample Info: LCS-62719,ALCS2N,62719,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPest

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.53



Data File: \\avogadro\organics\E2.i\111115R.B\E2K7970R.D
Report Date: 17-Nov-2011 11:00

Spectrum Analytical, Inc. RI Division

8080/8081PCB Quantitation Report

Data file : \\avogadro\organics\E2.i\111115R.B\E2K7970R.D
Lab Smp Id: LCS-62719 Client Smp ID: ALCS2N
Inj Date : 16-NOV-2011 11:35
Operator : DL SRC: LIMS Inst ID: E2.i
Smp Info : LCS-62719,ALCS2N,62719,somaro.sub,,
Misc Info : 1,3,,1
Comment :
Method : \\avogadro\organics\E2.i\111115R.B\E2_ARO_5_R.m
Meth Date : 16-Nov-2011 17:21 gappolonia Quant Type: ESTD
Cal Date : 14-NOV-2011 11:43 Cal File: E2K7807R.D
Als bottle: 43 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: somaro.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: TARGET106

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.632	4.629	0.003	666687	0.05094	0.51		
6 Aroclor-1016					CAS #: 12674-11-2		
6.254	6.251	0.003	30888	0.09827	0.98	80.00- 120.00	100.00(a)
6.507	6.504	0.003	102175	0.08371	0.84	363.62- 403.62	330.79
6.662	6.658	0.004	49228	0.08953	0.90	152.00- 192.00	159.38
Average of Peak Concentrations =					0.90		
8 Aroclor-1260					CAS #: 11096-82-5		
9.261	9.257	0.004	104918	0.08394	0.84	80.00- 120.00	100.00(a)
9.406	9.401	0.005	67883	0.08832	0.88	41.47- 81.47	64.70
9.891	9.887	0.004	69795	0.08628	0.86	44.64- 84.64	66.52
Average of Peak Concentrations =					0.86		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
15.434	15.432	0.002	1642143	0.09478	0.95		

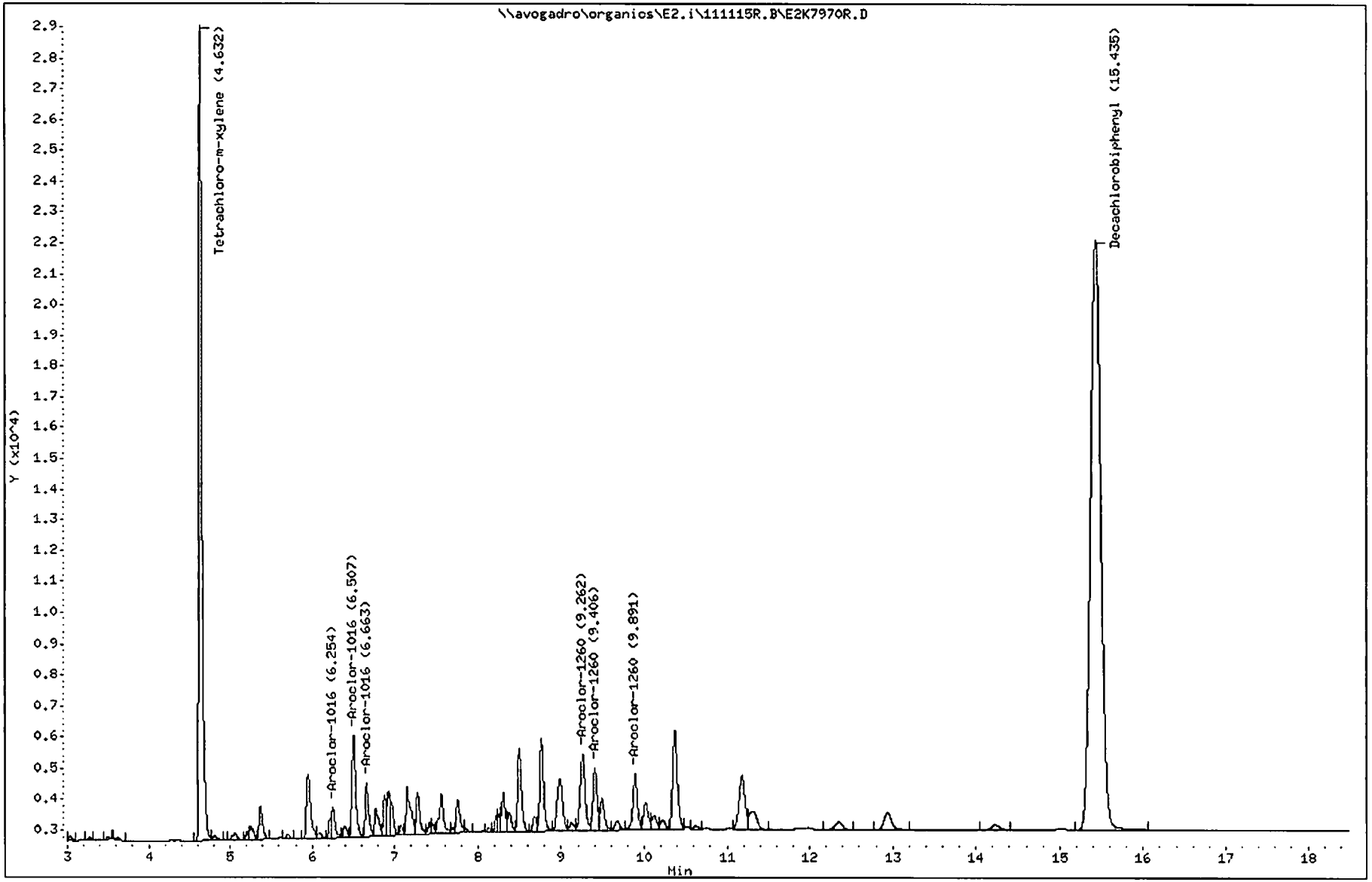
Data File: \\avogadro\organics\E2.i\111115R.B\E2K7970R.D
Report Date: 17-Nov-2011 11:00

QC Flag Legend

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

Data File: \\avogadro\organics\E2.i\111115R.B\E2K7970R.D
Date : 16-NOV-2011 11:35
Client ID: ALCS2N
Sample Info: LCS-62719,ALCS2N,62719,somaro.sub,,
Volume Injected (uL): 1.0
Column phase: CLPPestII

Instrument: E2.i
Operator: DL SRC: LIMS
Column diameter: 0.32



Thursday, November 03, 2011 14:45

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

Prep Start Date: **11/2/2011 3:30:00 P**
Prep End Date: **11/3/2011 2:17:00 P** Prep Code: **SOM01.0_SVOA_LOW_W_PR** Prep Type: **CONT/SW3520C** Prep Factor Units: mL / mL
Prep Batch ID: **62636** Technician: **Antonio AP Cardoso**

QC Matrix: NASO4	Solvent (1): MECL2	Solvent (3): N/A	Solvent (5): N/A	Clean Up (1): N/A	Clean Up (3): N/A
QC Matrix Lot: 106147	Solvent (1) Lot: DE 980	Solvent (3) Lot: N/A	Solvent (5) Lot: N/A	Clean Up (1) Lot: N/A	Clean Up (1) Lot: N/A
Filter?: FILTER	Solvent (2): N/A	Solvent (4): N/A	Solvent (6): N/A	Clean Up (2): N/A	Clean Up (4): N/A
Filter Lot: FC003284	Solvent (2) Lot: N/A	Solvent (4) Lot: N/A	Solvent (6) Lot: N/A	Clean Up (2) Lot: N/A	Clean Up (4) Lot: N/A

L/L Start Time: 11/02/2011 15:30 L/L Cycles/Hour 5 Sonicator Tuned?N/A Bath Temp1 (C): 87 Therm ID1: 88
L/L End Time: 11/03/2011 09:30

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 >11	pH <2	CNCNTR Unit
MB-62636	BatchQC		1000	1	OSW110725C	1			TM	APC			11/03/11	JMV	R7		☐	☑	KD 1
K2200-02B	H30T9	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-03B	H30W0	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-04B	H30W1	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-05B	H30W2	A	1000	1	OSW110725C	1			TM	APC	11/17/11	02	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-06B	H30W3	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-07B	H30W4	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-08B	H30W5	A	1000	1	OSW110725C	1			TM	APC	11/17/11	02	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-09B	H30W6	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-10B	H30W7	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-11B	H30W8	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-12B	H30X0	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-13B	H30X1	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-14B	H30Y2	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-15B	H30Y3	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-16B	H30Y4	A	1000	1	OSW110725C	1			TM	APC	11/17/11	02	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-17B	H30Y5	A	1000	1	OSW110725C	1			TM	APC	11/17/11	03	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-18B	H30Y6	A	1000	1	OSW110725C	1			TM	APC	11/17/11	03	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-19B	H30Z6	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1
K2200-20A	H30X3	A	1000	1	OSW110725C	1			TM	APC	11/17/11	01	11/03/11	JMV	R7	7	☐	☑	KD 1

Jonathan M Vales 11/03/2011 Timothy McDaniel 11/03/2011
Analyst Reviewed Date Manager Reviewed Date

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

Logbook ID: 50.0147-10/11

86 JV 11/3/11

1029

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

Prep Start Date: 11/3/2011 3:00:00 P
Prep End Date: 11/4/2011 1:30:00 P
Prep Batch ID: 62685

Prep Code: SOM01.0_SVOA_LOW_W_PR
Technician: Antonio AP Cardoso

Prep Type: CONT/SW3520C

Prep Factor Units: mL / mL

QC Matrix: NASO4
QC Matrix Lot: 106147

Solvent (1): MECL2
Solvent (1) Lot: DE 980

Solvent (3): N/A
Solvent (3) Lot: N/A

Solvent (5): N/A
Solvent (5) Lot: N/A

Clean Up (1): N/A
Clean Up (1) Lot: N/A

Clean Up (3): N/A
Clean Up (1) Lot: N/A

Filter?: FILTER
Filter Lot: FC003284

Solvent (2): N/A
Solvent (2) Lot: N/A

Solvent (4): N/A
Solvent (4) Lot: N/A

Solvent (6): N/A
Solvent (6) Lot: N/A

Clean Up (2): N/A
Clean Up (2) Lot: N/A

Clean Up (4): N/A
Clean Up (4) Lot: N/A

L/L Start Time: 11/03/2011 15:30
L/L End Time: 11/04/2011 09:30

L/L Cycles/Hour 5

Sonicator Tuned? N/A

Bath Temp1 (C): 87

Therm ID1: 88

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 >11	pH <2	CNCNTR Unit
MB-62685	BatchQC		1000	1	OSW111013A	1			TM	CJA			11/04/11	JBW	R7	7.0	☐	☑	KD 1
K2213-01A	H30X4	A	1000	1	OSW111013A	1			TM	CJA	11/22/11	01	11/04/11	JBW	R7	7.0	☐	☑	KD 1
K2213-02A	H30Y7	A	1000	1	OSW111013A	1			TM	CJA	11/22/11	01	11/04/11	JBW	R7	7.0	☐	☑	KD 1
K2200-20AMS	H30X3	A	500	0.5	OSW111013A	0.5	OSW110916A	0.5	TM	CJA	11/17/11		11/04/11	JBW	R7	7.0	☐	☑	KD 1
K2200-20AMSD	H30X3	A	500	0.5	OSW111013A	0.5	OSW110916A	0.5	TM	CJA	11/17/11		11/04/11	JBW	R7	7.0	☐	☑	KD 1
K2260-01B	CY4N9	A	1000	1	OSW111013A	1			TM	CJA	11/22/11	01	11/04/11	JBW	R7	7.0	☐	☑	KD 1
Use with Sol. 1628																			
K2195-02BRE	C09K3	A	1000	1	OSW111013A	1			TM	CJA	11/16/11	01	11/04/11	JBW	R7	7.0	☐	☑	KD 1

Jonathan M Vales 11/04/2011
Analyst Reviewed Date

Timothy McDaniel 11/08/2011
Manager Reviewed Date

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

Reviewed By:

Drip Rate

Water Bath Temp: /MT-

Logbook ID: 50.0147-10/11

Prep Start Date: 11/2/2011 9:00:00 A
Prep End Date: 11/14/2011 2:57:00 Prep Code: SOM01.0_ARO_W_PR Prep Type: SEPF/SW3510C Prep Factor Units: mL / mL
Prep Batch ID: 62638 Technician: Courtney J Anderson

QC Matrix: NASO4	Solvent (1): MECL2	Solvent (3): N/A	Solvent (5): N/A	Clean Up (1): N/A	Clean Up (3): N/A
QC Matrix Lot: 106147	Solvent (1) Lot: DE 980	Solvent (3) Lot: N/A	Solvent (5) Lot: N/A	Clean Up (1) Lot: N/A	Clean Up (1) Lot: N/A
Filter?: FILTER	Solvent (2): HEXANE	Solvent (4): N/A	Solvent (6): N/A	Clean Up (2): N/A	Clean Up (4): N/A
Filter Lot: FC003284	Solvent (2) Lot: DA 782	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 End Time: N/A	Cycles/Hour:0	Sonicator Tuned?N/A	Bath Temp1 (C): N/A	Therm ID1: 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 >11	pH <2	CNCNTR Unit
MB-62638	BatchQC		1000	10	OPW110822B	1			CJA	TM			11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (MB-62638): ACID_111114C/jwarner, CU_111114C/jwarner																			
LCS-62638	BatchQC		1000	10	OPW110822B	1	OPW110606A	1	CJA	TM			11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (LCS-62638): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-02B	H30T9	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-02B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-03B	H30W0	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-03B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-04B	H30W1	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-04B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-05B	H30W2	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-05B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-06B	H30W3	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-06B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-07B	H30W4	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-07B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-08B	H30W5	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-08B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-09B	H30W6	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-09B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-10B	H30W7	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-10B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-11B	H30W8	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-11B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-12B	H30X0	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-12B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-13B	H30X1	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-13B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-14B	H30Y2	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-14B): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-15B	H30Y3	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-15B): ACID_111114C/jwarner, CU_111114C/jwarner																			

Logbook ID: 50.0149-10/11

JW 11/14/11

1031

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

Prep Start Date: **11/2/2011 9:00:00 A**
Prep End Date: **11/14/2011 2:57:00** Prep Code: **SOM01.0_ARO_W_PR** Prep Type: **SEPF/SW3510C** Prep Factor Units: **mL / mL**
Prep Batch ID: **62638** Technician: **Courtney J Anderson**

QC Matrix: NASO4	Solvent (1): MECL2	Solvent (3): N/A	Solvent (5): N/A	Clean Up (1): N/A	Clean Up (3): N/A
QC Matrix Lot: 106147	Solvent (1) Lot: DE 980	Solvent (3) Lot: N/A	Solvent (5) Lot: N/A	Clean Up (1) Lot: N/A	Clean Up (1) Lot: N/A
Filter?: FILTER	Solvent (2): HEXANE	Solvent (4): N/A	Solvent (6): N/A	Clean Up (2): N/A	Clean Up (4): N/A
Filter Lot: FC003284	Solvent (2) Lot: DA 782	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? N/A 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 By	Storage	pH	pH >11	pH <2	CNCNTR Unit
K2200-16B	H30Y4	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
	CLEAN UP (K2200-16B): ACID_111114C/jwarner, CU_111114C/jwarner																		
K2200-17B	H30Y5	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
	CLEAN UP (K2200-17B): ACID_111114C/jwarner, CU_111114C/jwarner																		
K2200-18B	H30Y6	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
	CLEAN UP (K2200-18B): ACID_111114C/jwarner, CU_111114C/jwarner																		
K2200-19B	H30Z6	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
	CLEAN UP (K2200-19B): ACID_111114C/jwarner, CU_111114C/jwarner																		
K2200-20A	H30X3	A	1000	10	OPW110822B	1			CJA	TM	11/17/11	01	11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
	CLEAN UP (K2200-20A): ACID_111114C/jwarner, CU_111114C/jwarner																		

Jodie B Warner 11/14/2011 Timothy McDaniel 11/14/2011
Analyst Reviewed Date Manager Reviewed Date

Comments:

*A = Analyst (Spiked) *W = Witnessed (Spike) *T = Transferred

PCB LCS Spike Std ID: Vol. Spiked: Sulfur cleanup Copper lot # Soxhlet Cycle/Hour:
Sonicator Tuned? Yes/No
Reviewed By:

Logbook ID: 50.0149-10/11

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

Prep Start Date: 11/3/2011 4:07:05 P
Prep End Date: 11/14/2011 2:57:00 Prep Code: SOM01.0_ARO_W_PR Prep Type: SEPF/SW3510C Prep Factor Units: mL / mL
Prep Batch ID: 62719 Technician: Timothy McDaniel

QC Matrix NASO4	Solvent (1): MECL2	Solvent (3): N/A	Solvent (5): N/A	Clean Up (1): N/A	Clean Up (3): N/A
QC Matrix Lot: 106147	Solvent (1) Lot: DE 980	Solvent (3) Lot: N/A	Solvent (5) Lot: N/A	Clean Up (1) Lot: N/A	Clean Up (1) Lot: N/A
Filter?: FILTER	Solvent (2): HEXANE	Solvent (4): N/A	Solvent (6): N/A	Clean Up (2): N/A	Clean Up (4): N/A
Filter Lot: FC003284	Solvent (2) Lot: DA 782	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 End Time: N/A Cycles/Hour 0 Sonicator Tuned? N/A Bath Temp1 (C): N/A Therm ID1: 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 >11	pH <2	CNCNTR Unit
MB-62719	BatchQC		1000	10	OPW110822B	1			CJA	TM			11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (MB-62719): ACID_111114C/jwarner, CU_111114C/jwarner																			
LCS-62719	BatchQC		1000	10	OPW110822B	1	OPW110606A	1	CJA	TM			11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (LCS-62719): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-20AMS	H30X3	A	500	5	OPW110822B	0.5	OPW110701A	0.5	CJA	TM	11/17/11		11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-20AMS): ACID_111114C/jwarner, CU_111114C/jwarner																			
K2200-20AMSD	H30X3	A	500	5	OPW110822B	0.5	OPW110701A	0.5	CJA	TM	11/17/11		11/14/11	JBW	R21	7	☐	☐	Turbo Vap 1
CLEAN UP (K2200-20AMSD): ACID_111114C/jwarner, CU_111114C/jwarner																			

Jodie B Warner 11/14/2011 Timothy McDaniel 11/14/2011
Analyst Reviewed Date Manager Reviewed 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:

Logbook ID: 50.0149-10/11

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

METHOD: TVOA ANALYST: WL BATCH: 111015A.B Start: 15-OCT-11 10:58
ICAL DATE: 10/13/11 End: 15-OCT-11 22:29

Comments:

Standards: IS-VW 110926A ___ uL
DMC-VW110926B ___ uL
STD-VW111015A ___ uL
___ uL

Reviewed By: 10/17/11 Manual Integration: NA MI Review: WL

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS DFB	CBZ	DCB	SURROGATES OLC-SOM A B C D E F G H I J K L M N	DILN	FLG	COMMENTS	pH
V5N1679	10:58	BFBB5	BFBB5		AQ						1		OK	
V5N1680	11:28	VSTD005B5	VSTD005B5		AQ		100	100	100		1		ok	
V5N1681	11:57	VSTD0.5B5	VSTD0.5B5		AQ		105	113	107		1		ok	
V5N1682	12:26	VSTD020B5	VSTD020B5		AQ		104	108	111		1		ok	
V5N1683	12:55	VSTD010B5	VSTD010B5		AQ		114	111	114		1		ok	
V5N1684	13:24	VSTD001B5	VSTD001B5		AQ		115	109	113		1		ok	
V5N1685	13:52	MB-62222	VBLKB5	62222	AQ		120	118	115		1		ok	2
V5N1686	14:22	K1996-01A	E5DA9	62222	AQ	I	116	113	108		1		ok	2
V5N1687	14:51	K1976-13A	C01X9	62222	AQ	I	116	116	107		1		ok	2
V5N1688	15:20	K1976-15A	C01Y1	62222	AQ	I	114	114	108		1		ok	2
V5N1689	15:48	K1976-17A	C01Y3	62222	AQ	I	113	112	109		1		ok	2
V5N1690	16:17	K1976-18A	C01Y4	62222	AQ	I	114	114	100		1		ok	2
V5N1691	16:45	K1976-11A	C01X7	62222	AQ	I	110	109	103		1		ok	2
V5N1692	17:14	K2005-03A	C01Y9	62222	AQ	I	104	107	99		1		ok	2
V5N1693	17:42	K2005-04A	C01Z0	62222	AQ	I	107	109	96		1		ok	2
V5N1694	18:11	K2005-05A	C01Z1	62222	AQ	I	108	107	101		1		ok	2
V5N1695	18:40	K2005-06A	C01Z2	62222	AQ	I	107	107	101		1		ok	2
V5N1696	19:08	K2005-07A	C01Z3	62222	AQ	I	110	108	98		1		ok	2
V5N1697	19:37	K1976-12A	C01X8	62222	AQ	I	106	104	102		1	E	cis-DCE = 275, RRX50	2
V5N1698	20:05	K1976-14A	C01Y0	62222	AQ	I	114	113	97		1	E	" = 93, RRX10	2
V5N1699	20:34	K1976-16A	C01Y2	62222	AQ	I	108	108	98		1	E	TCE = 44, RRX5	2
V5N1700	21:02	K1976-09A	C01X5	62222	AQ	I	107	109	94	*	1	E	" = 38, RRX4	2
V5N1701	21:31	K1976-10A	C01X6	62222	AQ	I	103	102	94	*	1	E	" = 36, RRX4	2
V5N1702	21:59	K1994-08A	TRIP-BLANK-1012	62222	AQ	I	111	109	98		1		ok, clean	2
V5N1703	22:29	VSTD005C5	VSTD005C5		AQ		100	100	100		1		ok	

* - Internal Standard or Surrogate outside of control limits
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
D - Surrogates are diluted

WL 10/18/11

1034

Logbook ID 90.0199-09/11

INSTRUMENT LOG
INJECTION LOG

Spectrum Analytical, Inc. RI Division
VOLATILES LABORATORY

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

METHOD: TVOA ANALYST: WL BATCH: 111101.B Start: 01-NOV-11 06:27
ICAL DATE: 10/15/11 End: 01-NOV-11 18:25

Comments:

Standards: IS-VW111024A ___ uL
PMC-VW111024B ___ uL
STD-VW111015A ___ uL
___ uL

Reviewed By: 11-3-11 Manual Integration: NA MI Review: WL

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS DFB	CBZ	DCB	SURROGATES OLC-SOM A	B	C	D	E	F	G	H	I	J	K	L	M	N	DILN	FLG	COMMENTS	pH
V5N2525	06:27	BFB5T	BFB5T		AQ																			1		OK	
V5N2526	06:58	VSTD005ST	VSTD005ST		AQ		100	100	100															1		ok	
V5N2526A	07:25	MB-62672	VBLK5T	62672	AQ		105	108	90															1		ok	
V5N2527	07:54	K2117-04ADL	B9J30DL	62672	AQ	2	105	100	85															2.5		ok	2
V5N2528	08:22	K2117-07ADL	B9WR3DL	62672	AQ	2	108	106	90															16		OK	2
V5N2529	08:51	K2117-11ADL	B9WR8DL	62672	AQ	2	103	107	89															4		ok	2
V5N2530	09:20	K2117-17ADL	B9WS4DL	62672	AQ	2	108	109	90															2		ok	2
V5N2531	09:49	K2200-01A	H30S7	62672	AQ	1	108	109	92															1		ok	2
V5N2532	10:17	K2200-02A	H30T9	62672	AQ	1	106	113	88															1		OK	2
V5N2533	10:46	K2200-03A	H30W0	62672	AQ	1	111	110	90															1		ok	2
V5N2534	11:14	K2200-04A	H30W1	62672	AQ	1	112	112	90															1		ok	2
V5N2535	11:43	K2200-05A	H30W2	62672	AQ	1	111	113	95															1		ok	2
V5N2536	12:11	K2200-06A	H30W3	62672	AQ	1	111	113	88															1		OK	2
V5N2537	12:40	K2200-07A	H30W4	62672	AQ	1	105	108	88															1		ok	2
V5N2538	13:08	K2200-08A	H30W5	62672	AQ	1	108	104	91															1		ok	2
V5N2539	13:36	K2200-09A	H30W6	62672	AQ	1	114	116	98															1		ok	2
V5N2540	14:05	K2200-10A	H30W7	62672	AQ	1	117	114	95															1		ok	2
V5N2541	14:33	K2200-11A	H30W8	62672	AQ	1	116	112	95															1		ok	2
V5N2542	15:01	K2200-12A	H30X0	62672	AQ	1	111	105	97															1		OK	2
V5N2543	15:30	K2200-13A	H30X1	62672	AQ	1	113	116	97															1		ok	2
V5N2544	15:58	K2200-14A	H30Y2	62672	AQ	1	113	111	91															1		ok	2
V5N2545	16:27	K2200-15A	H30Y3	62672	AQ	1	113	107	89															1		OK	2
V5N2546	16:55	K2200-16A	H30Y4	62672	AQ	1	112	111	94															1		OK	2
V5N2547	17:23	K2200-17A	H30Y5	62672	AQ	1	111	108	95															1		ok	2
V5N2548	17:52	K2200-18A	H30Y6	62672	AQ	1	117	115	94															1		ok	2
V5N2571	18:25	VSTD005SU	VSTD005SU		AQ		100	100	100															1		ok	

* - Internal Standard or Surrogate outside of control limits
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
D - Surrogates are diluted

WL 11/3/11

1035

Logbook ID 90.0199-09/11

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

METHOD: TVOA
ICAL DATE: 10/15/11
ANALYST: WL
BATCH: 111102.B
Start: 02-NOV-11 05:55
End: 02-NOV-11 17:48

Comments:

Standards: IS-VW111024A ___ uL
PMC-VW111024B ___ uL
STP-VW111024A ___ uL
___ uL

Reviewed By: 11-3-11 Manual Integration: NA MI Review: WL

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS DFB	CBZ	DCB	SURROGATES OLC-SOM A	B	C	D	E	F	G	H	I	J	K	L	M	N	DILN	FLG	COMMENTS	pH
V5N2595	05:55	VSTD005SV	VSTD005SV		AQ		100	100	100															1		OK	
V5N2596	06:23	MB-62632	VBLK5V	62632	AQ		120	122	102															1		ok	
V5N2597	06:51	K2163-15A	SF-MW-2-H-RI	62632	AQ	1	116	113	91															1	E	PCE=57, RR X8	2
V5N2598	07:20	K2123-01A	SF-MW-4-C-RI	62632	AQ	1	116	118	96															1	E	PCE=99, RR X10	2
V5N2599	07:49	K2123-02A	SF-MW-4-D-RI	62632	AQ	1	113	122	94															1	E	102, 10	2
V5N2600	08:18	K2123-03A	SF-MW-4-K-RI	62632	AQ	1	106	108	93															80	E	50 400	2
V5N2601	08:47	K2123-06A	SF-MW-5-H-RI	62632	AQ	1	110	112	95															10	E	75 80	2
V5N2602	09:15	K2123-08A	SF-MW-5-G-RI	62632	AQ	1	108	107	93															200	E	54 1000	2
V5N2603	09:44	K2123-09A	SF-MW-5-F-RI	62632	AQ	1	111	111	90															200	E	63 1000	2
V5N2604	10:12	K2123-13A	SF-MW-5-K-RI	62632	AQ	1	108	108	93															10	E	70 80	2
V5N2605	10:41	K2163-09A	SF-MW-6-D-R1	62632	AQ	1	107	110	92															80	E	42 320	2
V5N2606	11:09	K2163-11A	SF-MW-6-E-R1	62632	AQ	1	104	108	88															5	E	70 40	2
V5N2607	11:38	K2163-13A	SF-MW-6-F-R1	62632	AQ	1	105	104	85															40	E	29 100	2
V5N2608	12:07	K2163-14A	SF-MW-600-F-R1	62632	AQ	1	101	110	84															40	E	27 100	2
V5N2609	12:35	K2163-16A	SF-MW-2-D-RI	62632	AQ	1	104	106	85															1000	E	48 5000	2
V5N2610	13:03	K2175-07A	130172-TB-10271	62632	AQ	1	105	108	90															1		OK, PCE=0.2	2
V5N2611	13:31	K2175-06A	130172-FB-10271	62632	AQ	1	107	109	87															1		OK	2
V5N2612	14:00	K2201-06A	130172-FB-10281	62632	AQ	1	102	105	87															1		ok	2
V5N2613	14:28	K2201-07A	130172-TB-10281	62632	AQ	1	104	106	88															1		ok	2
V5N2614	14:56	K2123-11ADL	SF-MW-5-C-RIDL	62632	AQ	2	105	109	90															2.5		ok, PCE = 11	2
V5N2615	15:24	K2123-12ADL	SF-MW-5-J-RIDL	62632	AQ	2	104	107	90															5		OK 10	2
V5N2616	15:53	K2163-02ADL	SF-MW-6-I-R1DL	62632	AQ	2	106	109	93															8		OK 11	2
V5N2617	16:21	K2163-08ADL	SF-MW-6-C-R1DL	62632	AQ	2	108	107	86															10		OK 11	2
V5N2618	16:50	K2163-10ADL	SF-MW-6-K-R1DL	62632	AQ	2	101	105	89															4		OK 10	2
V5N2619	17:19	VHBLK5V	VHBLK5V	62632	AQ		100	103	90															1		OK	
V5N2620	17:48	VSTD005SW	VSTD005SW		AQ		100	100	100															1		OK	

* - Internal Standard or Surrogate outside of control limits
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
D - Surrogates are diluted

WL 11/3/11

Logbook ID 90.0199-09/11

1036

INSTRUMENT INJECTION LOG

Spectrum Analytical, Inc. Div
VOLATILES LABORATORY

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

METHOD: TVCA ANALYST: WL BATCH: 111102A.B Start: 02-NOV-11 17:48
ICAL DATE: 10/15/11 End: 03-NOV-11 05:35

Comments:

Standards: IS-VW111024A ___ uL
BMC-VW111024B ___ uL
STD-VW111015A ___ uL
___ uL

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

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS DFB	CBZ	DCB	SURROGATES OLC-SOM A	B	C	D	E	F	G	H	I	J	K	L	M	N	DILN	FLG	COMMENTS	pH
V5N2620	17:48	VSTD0055W	VSTD0055W		AQ		100	100	100															1		OK	
V5N2621	18:16	MB-62673	VBLK5W	62673	AQ		101	100	92															1		ok	
V5N2622	18:46	K2200-19A	H30Z6	62673	AQ	1	104	110	95															1		ok	2
V5N2623	19:15	K2206-02A	C0AH0	62673	AQ	1	109	109	98															1		ok	2
V5N2624	19:44	K2206-04A	C0AH2	62673	AQ	1	102	105	89															1		ok	2
V5N2625	20:12	K2206-01A	C0AG9	62673	AQ	1	104	106	93															1		ok	2
V5N2626	20:41	K2206-03A	C0AH1	62673	AQ	1	98	104	85															1		ok	2
V5N2627	21:09	K2123-01ADL	SF-MW-4-C-R1DL	62673	AQ	2	100	102	89															10		ok, PCE=10	2
V5N2628	21:34	K2123-02ADL	SF-MW-4-D-R1DL	62673	AQ	2	100	106	82															10		ok " : 9	2
V5N2629	22:03	K2123-03ADL	SF-MW-4-K-R1DL	62673	AQ	2	101	106	83															400		ok 10	2
V5N2630	22:31	K2123-06ADL	SF-MW-5-H-R1DL	62673	AQ	2	103	103	88															80		ok 11	2
V5N2631	23:00	K2123-08ADL	SF-MW-5-G-R1DL	62673	AQ	2	101	104	93															1000		ok 11	2
V5N2632	23:28	K2123-09ADL	SF-MW-5-F-R1DL	62673	AQ	2	104	110	93															1000		ok 12	2
V5N2633	23:58	K2123-13ADL	SF-MW-5-K-R1DL	62673	AQ	2	99	107	87															80		ok 11	2
V5N2634	00:28	K2163-09ADL	SF-MW-6-D-R1DL	62673	AQ	2	102	103	88															320		ok 10	2
V5N2635	00:57	K2163-11ADL	SF-MW-6-E-R1DL	62673	AQ	2	100	104	82															40		ok 12	2
V5N2636	01:25	K2163-12ADL	SF-MW-6-G-R1DL	62673	AQ	2	101	106	97															4		ok 11	2
V5N2637	01:54	K2163-13ADL	SF-MW-6-F-R1DL	62673	AQ	2	100	104	92															100		ok 13	2
V5N2638	02:23	K2163-14ADL	SF-MW-600-F-R1D	62673	AQ	2	97	101	90															100		ok 13	2
V5N2639	02:52	K2163-15ADL	SF-MW-2-H-R1DL	62673	AQ	2	96	101	86															5		ok 13	2
V5N2640	03:21	K2163-16ADL	SF-MW-2-D-R1DL	62673	AQ	2	95	101	88															5000		ok 13	2
V5N2641	04:12	VHBLK5W	VHBLK5W	62673	AQ		114	124	116															1		ok (K2123) (K2163)	
V5N2642	05:06	VHBLK5W	VHBLK5W	62673	AQ		107	111	99															1		ok (K2200) (K2206)	
V5N2643	05:35	VSTD0055X	VSTD0055X		AQ		100	100	100															1		ok	

* - Internal Standard or Surrogate outside of control limits
B - 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
D - Surrogates are diluted

WL 11/7/11

1037

Logbook ID 90.0199-09/11

Logbook ID: 70.0168- 09/11

Instrument S2
Injection Log

Spectrum Analytical, Inc. RI Div
SemiVolatiles Laboratory

Spectrum Analytical, Inc. RI Division S2 Injection Log
Semivolatiles Laboratory

METHOD: SOXLOW
ICAL DATE: 10/25/11
ANALYST: MMS
EMV: 2801

BATCH: 111025.B

Start: 25-OCT-11 09:32
End: 25-OCT-11 16:41

Tune: SW110727A
L1: SW111019A
L2: SW111019B
L3: SW111019C
L4: SW111019D
L5: SW111019E

Internal Standard: SS111019A
Comments:

Inlet Maintenance By: MMS
Liner : Cleaned
Column : Clipped
Inlet Seal: Cleaned
Septum : New

Reviewed By: 10/26/11 BM
Manual Integration: MMS 10/26
MI Review: 10/26/11 BM

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	INTERNAL STANDARDS DCB	NPT	ANT	PHN	CRY	PRY	SURROGATES OLC-SOM A	B	C	D	E	F	G	H	I	J	K	L	M	M	O	P	DILN	FLG	COMMENTS
S2H5052	09:32	DFTPP2W	DFTPP2W		AQ																							1		OK
S2H5053C	11:35	SSTD0202W	SSTD0202W		AQ	100	100	100	100	100	100																	1		OK L3 OCCV
S2H5054	11:58	SSTD0052W	SSTD0052W		AQ	76	77	75	81	81	77																	1		L1
S2H5055	12:21	SSTD0802W	SSTD0802W		AQ	62	67	63	64	38*	27*																	1		L5
S2H5056	12:44	SSTD0102W	SSTD0102W		AQ	113	107	100	97	96	98																	1		L2
S2H5057	13:07	SSTD0402W	SSTD0402W		AQ	75	78	82	83	83	71																	1		L4
S2H5059	14:28	MB-62327	SBLK2X	62327	SL	56	51	50*	44*	39*	40*																	1		No MM
S2H5060	14:51	K2072-16AMS	E0ZS5MS	62360	SL	69	66	62	58	57	63																	1		OK
S2H5061	15:13	MB-62327	SBLK2X	62327	SL	63	66	64	59	59	56																	1		OK
S2H5062	15:35	K2072-16AMSD	E0ZS5MSD	62360	SL	86	87	82	74	64	67																	1		OK MI_81
S2H5063	15:57	K2072-07A	E0ZR6	62327	SL	82	82	71	68	66	75																	1		OK MI_81
S2H5064	16:19	K2072-12A	E0ZS1	62327	SL	82	79	67	67	68	72																	1		OK
S2H5065	16:41	SSTD0202Y	SSTD0202Y		AQ	100	100	100	100	100	100																	1		OK FCCV

* - Internal Standard or Surrogate outside of control limits
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
D - Surrogates are diluted

MMS 10/26/11

1038

Logbook ID: 70.0168- 09/11

Instrument S2
Injection Log

Spectrum Analytical, Inc. RI Div
SemiVolatiles Laboratory

Spectrum Analytical, Inc. RI Division S2 Injection Log
Semivolatiles Laboratory

METHOD: SOW LOW
ICAL DATE: 10/25/11
ANALYST: MHS
EMV: 2716

BATCH: 111103.B

Start: 03-NOV-11 09:42
End: 03-NOV-11 23:14

Tune: SW110127A

Internal Standard: SI111018A
CB: SW110190

Comments:

Inlet Maintenance By: MHS
Liner : Cleaned
Column : Clipped
Inlet Seal: Cleaned
Septum : New

Reviewed By: 11/04/11 BM
Manual Integration: NA
MI Review: NA

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	INTERNAL STANDARDS DCB	NPT	ANT	PHN	CRY	PRY	SURROGATES OLC-SOM A	B	C	D	E	F	G	H	I	J	K	L	M	M	O	P	DILN	FLG	COMMENTS
S2H5188	09:42	DFTPP2P	DFTPP2P		AQ																							1		OK
S2H5189	09:55	SSTD0202P	SSTD0202P		AQ	100	100	100	100	100	100																	1		OK CCV
S2H5190	10:17	MB-62608	SBLK2P	62608	AQ	98	82	86	86	76	78																	1		OK
S2H5191	10:39	K2152-13B	B9TB1	62608	AQ	101	87	83	89	80	81																*	1		OK
S2H5192	11:00	K2152-14B	B9TB3	62608	AQ	108	84	88	80	68	68																	1		OK
S2H5193	11:21	K2152-15B	B9TB1	62608	AQ	102	91	83	82	65	52									*					*	*	*	1		OK
S2H5194	11:42	K2152-16B	B9TB3	62608	AQ	97	87	78	79	71	68																	1		OK
S2H5195	12:04	K2152-17B	B9TG6	62608	AQ	102	95	89	90	77	77																	1		OK
S2H5196	12:25	K2195-02B	C09K3	62608	AQ	101	82	75	73	53	49*	*		*	*			*							*	*		1		Low extract
S2H5197	12:46	K2195-03B	C09K4	62608	AQ	237*	132	118	123	131	133																	1	E	OK DX5 Nitrobenzene
S2H5198	13:08	K2195-04B	C09K5	62608	AQ	182	95	110	119	107	100							*										1	E	OK DX5 Nitrobenzene
S2H5199	13:38	K2195-03BDL	C09K4DL	62608	AQ	234*	117	126	123	121	108	D	D															5		OK
S2H5200	14:14	K2195-02B	C09K3	62608	AQ	113	86	84	83	62	54	*		*	*			*							*	*	*	1		Dil'd 400
S2H5201	14:35	K2195-04BDL	C09K5DL	62608	AQ	232*	118	117	112	111	105	D	D	D														5		Norm
S2H5201A	15:00	K2195-04BDL	C09K5DL	62608	AQ	168	84	86	85	80	69	D		D														5		OK
S2H5202A	15:43	SSTD0202Q	SSTD0202Q		AQ	100	100	100	100	100	100																	1		OK CCV
S2H5203	16:05	MB-62636	SBLK2Q	62636	AQ	111	100	84	98	88	87																	1		OK
S2H5204	16:26	K2200-02B	H30T9	62636	AQ	106	110	101	119	113	110																	1		OK
S2H5205	16:47	K2200-03B	H30W0	62636	AQ	114	127	109	123	119	122																	1		OK
S2H5206	17:09	K2200-04B	H30W1	62636	AQ	128	123	111	112	101	59	*								*					*	*	*	1		Low in H_2O
S2H5207	17:30	K2200-05B	H30W2	62636	AQ	112	121	114	121	123	119																	1		OK
S2H5208	17:51	K2200-06B	H30W3	62636	AQ	103	100	82	94	85	84																	1		OK
S2H5209	18:12	K2200-07B	H30W4	62636	AQ	126	133	120	129	132	128																	1		OK
S2H5210	18:34	K2200-08B	H30W5	62636	AQ	119	122	117	124	120	113																	1		OK
S2H5211	18:55	K2200-09B	H30W6	62636	AQ	111	118	105	126	118	111																	1		OK
S2H5212	19:17	K2200-10B	H30W7	62636	AQ	115	127	115	140	136	131																	1		OK
S2H5213	19:39	K2200-11B	H30W8	62636	AQ	115	124	122	151	160	164																	1		OK
S2H5214	20:00	K2200-12B	H30X0	62636	AQ	124	131	144	158	199	187																	1		OK

* - Internal Standard or Surrogate outside of control limits
B - 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
D - Surrogates are diluted

MHS 11/4/11

1039

Spectrum Analytical, Inc. RI Division S2 Injection Log
Semivolatiles Laboratory

METHOD: SOM LAN
ICAL DATE: 10/25/11

ANALYST: MMS
EMV: 2716

BATCH: 111103.B

Start: 03-NOV-11 09:42
End: 03-NOV-11 23:14

Tune: SM110727A

Internal Standard: SI111018A
Comments:

C3: SM111019C

Inlet Maintenance By: MMS
Liner : Cleaned
Column : Clipped
Inlet Seal: Cleaned
Septum : New

Reviewed By: 11/04/11 BM

Manual Integration: N/A

MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	INTERNAL STANDARDS DCB	NPT	ANT	PHN	CRY	PRY	SURROGATES OLC-SOM A	B	C	D	E	F	G	H	I	J	K	L	M	M	O	P	DILN	FLG	COMMENTS
S2H5215	20:22	K2200-13B	H30X1	62636	AQ	124	149	138	171	168	163																	1		OK
S2H5216	20:43	K2200-14B	H30Y2	62636	AQ	123	110	98	96	86	93																*	1		OK
S2H5217	21:05	K2200-15B	H30Y3	62636	AQ	129	126	107	106	83	86															*	*	1		OK
S2H5218	21:27	K2200-16B	H30Y4	62636	AQ	125	113	101	95	74	79															*	*	1		OK
S2H5219	21:48	K2200-17B	H30Y5	62636	AQ	127	118	96	86	64	72															*	*	1	T	OK
S2H5220	22:10	K2200-18B	H30Y6	62636	AQ	139	133	122	114	90	80														*	*	*	1	T	OK
S2H5221	22:31	K2200-19B	H30Z6	62636	AQ	129	124	115	117	117	110																	1	T	OK
S2H5222	22:53	K2200-20A	H30X3	62636	AQ	131	146	119	135	103	94																*	1	T	OK
S2H5223	23:14	SSTD0202R	SSTD0202R		AQ	100	100	100	100	100	100																	1	T	OK ECCV

* - Internal Standard or Surrogate outside of control limits
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
D - Surrogates are diluted

Liner	
Clipped Column	
Ferrule	

MMS 11/4/11

Logbook ID: 70.0168- 09/11

Instrument S2
Injection Log

Spectrum Analytical, Inc. RI Div
SemiVolatiles Laboratory

Spectrum Analytical, Inc. RI Division S2 Injection Log
Semivolatiles Laboratory

METHOD: 504 LOW
ICAL DATE: 10/25/11
ANALYST: MMS
EMV: 2716
BATCH: 111104.B
Start: 04-NOV-11 12:41
End: 04-NOV-11 17:43

Tune: SW110727A

Internal Standard: SS 111 018A
23: SW110619C
Comments:

Inlet Maintenance By: MMS
Liner : Cleaned
Column : Clipped
Inlet Seal: Cleaned
Septum : New

Reviewed By: 11/07/11 BM
Manual Integration: N/A
MI Review: N/A

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	INTERNAL STANDARDS DCB	NPT	ANT	PHN	CRY	PRY	SURROGATES OLC-SOM A	B	C	D	E	F	G	H	I	J	K	L	M	M	O	P	DILN	FLG	COMMENTS
S2H5224	12:41	DFTPP2S	DFTPP2S		AQ																							1		ok
S2H5225	13:08	SSTD0202S	SSTD0202S		AQ	100	100	100	100	100	100																	1		ok ccv
S2H5226	13:30	K2200-04B	H30W1	62636	AQ	125	120	132	125	112	99										*				*	*	*	1		OK
S2H5227	15:14	MB-62685	SBLK2S	62685	AQ	105	94	102	98	87	80																	1		OK
S2H5228	15:35	K2195-02BRE	C09K3RX	62685	AQ	109	115	110	128	105	101	*		*	*			*							*	*	*	1		OK
S2H5229	15:57	K2200-20AMS	H30X3MS	62685	AQ	145	154	139	136	118	127																	1	R	OK
S2H5230	16:18	K2200-20AMSD	H30X3MSD	62685	AQ	140	148	133	126	129	134	*			*											*		1	R	OK
S2H5231	16:39	K2213-01A	H30X4	62685	AQ	153	150	133	134	152	79															*		1		OK
S2H5232	17:01	K2213-02A	H30Y7	62685	AQ	133	124	111	113	108	135													*		*	*	1		OK
S2H5233	17:22	K2260-01B	CY4N9	62685	AQ	126	136	120	150	147	138																	1		OK
S2H5234	17:43	SSTD0202T	SSTD0202T		AQ	100	100	100	100	100	100																	1		OK FCCV

* - Internal Standard or Surrogate outside of control limits
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
D - Surrogates are diluted

Clipped Column	
Ferrule	

MMS 11/7/11

1041

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E2

Spectrum Analytical, Inc. RI Division E2 Injection Log
GC Semivolatiles Laboratory

METHOD: AR20
ICAL DATE: 11/14/11
ANALYST: CWD

START BATCH: 111113CF.B
END BATCH: 111113CF.B

Start: 13-NOV-11 17:38
End: 15-NOV-11 09:22

STDs Page 96

Inlet Maintenance By:
Liner :
Column :
Inlet Seal: ↓
Septum :

Comments:

Reviewed By: _____ Manual Integration: CWD/A MI Review: _____

5pt ICAL

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	SURROGATES FRONT DCB	SURROGATES REAR TCMX	SURROGATES REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E2K7774F/R	17:38	AIBLKKA	AIBLKKA		AQ	134	88	145*	87	1			✓		PW110524AC
E2K7775F/R	17:59	AR12213K2	AR12213K2		AQ					1			✓		PW110524M
E2K7776F/R	18:20	AR12323K2	AR12323K2		AQ					1			✓		PW110731A
E2K7777F/R	18:41	AR12421K2	AR12421K2		AQ					1			✓		PW110524B
E2K7778F/R	19:02	AR12426K2	AR12426K2		AQ					1			✓		P
E2K7779F/R	19:23	AR12422K2	AR12422K2		AQ					1			✓		W
E2K7780F/R	19:44	AR12423K2	AR12423K2		AQ					1			✓		M
E2K7781F/R	20:05	AR12424K2	AR12424K2		AQ					1			✓		L
E2K7782F/R	20:26	AR12425K2	AR12425K2		AQ					1			✓		R
E2K7783F/R	20:47	AR12481K2	AR12481K2		AQ					1			✓		V
E2K7784F/R	21:08	AR12486K2	AR12486K2		AQ					1			✓		V
E2K7785F/R	21:29	AR12482K2	AR12482K2		AQ					1			✓		T
E2K7786F/R	21:50	AR12483K2	AR12483K2		AQ					1			✓		S
E2K7787F/R	22:11	AR12484K2	AR12484K2		AQ					1			✓		K
E2K7788F/R	22:32	AR12485K2	AR12485K2		AQ					1			✓		Q
E2K7789F/R	22:52	AR12541K2	AR12541K2		AQ					1			✓		AA
E2K7790F/R	23:13	AR12546K2	AR12546K2		AQ					1			✓		AB
E2K7791F/R	23:34	AR12542K2	AR12542K2		AQ					1			✓		Z
E2K7792F/R	23:56	AR12543K2	AR12543K2		AQ					1			✓		Y
E2K7793F/R	00:16	AR12544K2	AR12544K2		AQ					1			✓		X
E2K7794F/R	00:37	AR12545K2	AR12545K2		AQ					1			✓		W
E2K7795F/R	00:58	AR12623K2	AR12623K2		AQ					1			✓		PW110524C
E2K7796F/R	01:19	AR12681K2	AR12681K2		AQ					1			✓		PW111113A
E2K7797F/R	01:40	AR12686K2	AR12686K2		AQ					1			✓		I
E2K7798F/R	08:23	AR12682K2	AR12682K2		AQ					1			✓		B
E2K7799F/R	08:54	AR12683K2	AR12683K2		AQ					1			✓		C
E2K7800F/R	09:17	AR12684K2	AR12684K2		AQ					1			✓		PW111113D

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

CWD
11/15/11

Logbook ID 60.0176-08/11

1042

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E2

Spectrum Analytical, Inc. RI Division: E2 Injection Log
GC Semivolatiles Laboratory

METHOD: SA120
ICAL DATE: 11/14/11

ANALYST: [illegible]

START BATCH: 111113CF.B
END BATCH: 111113CF.B

Start: 13-NOV-11 17:38
End: 15-NOV-11 09:22

STDs Page 96

Comments:

Inlet Maintenance By:
Liner :
Column :
Inlet Seal:
Septum :

Reviewed By: _____ Manual Integration: [illegible] 11/15/11 MI Review: _____

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	SURROGATES FRONT DCB	SURROGATES REAR TCMX	SURROGATES REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E2K7801F/R	09:38	AR12685K2	AR12685K2		AQ					1			✓		PW111136
E2K7802F/R	09:59	AR16601K2	AR16601K2		AQ					1			✓		PW110524I
E2K7803F/R	10:20	AR16606K2	AR16606K2		AQ					1			✓		H
E2K7804F/R	10:40	AR16602K2	AR16602K2		AQ					1			✓		G
E2K7805F/R	11:01	AR16603K2	AR16603K2		AQ					1			✓		F
E2K7806F/R	11:22	AR16604K2	AR16604K2		AQ					1			✓		
E2K7807F/R	11:43	AR16605K2	AR16605K2		AQ					1			✓		PW110524E
E2K7808F/R	12:04	AR1660ICV2J	AR1660ICV2J		AQ					1			✓		PW110524D
E2K7809F/R	12:25	AIBLKKA	AILBKKA		AQ					1			✓		
E2K7810F/R	12:46	AR16603KA	AR16603KA		AQ					1			✓	✓	
E2K7811F/R	13:07	AR12423KA	AR12423KA		AQ					1			✓	✓	
E2K7812F/R	13:28	AR12483KA	AR12483KA		AQ					1			✓	✓	
E2K7813F/R	13:49	AR12543KA	AR12543KA		AQ					1			✓	✓	
E2K7814F/R	14:10	AR12683KA	AR12683KA		AQ					1			✓	✓	
E2K7848F/R	02:03	AIBLKKD	AILBKKD		AQ					1			✓		
E2K7849F/R	02:24	AR16603KD	AR16603KD		AQ					1			✓	✓	
E2K7850F/R	02:45	AR12423KD	AR12423KD		AQ					1			✓	✓	
E2K7851F/R	03:06	AR12483KD	AR12483KD		AQ					1			✓	✓	
E2K7852F/R	03:27	AR12543KD	AR12543KD		AQ					1			✓	✓	MD
E2K7853F/R	03:48	AR12683KD	AR12683KD		AQ					1			✓	✓	
E2K7855F/R	04:09	MB-62849	ABLK2K	62849	AQ	68	70	73	72	1			✓		
E2K7856F/R	04:29	LCS-62849	ALCS2K	62849	AQ	71	78	78	81	1			✓		
E2K7857F/R	04:50	K2155-11A	B9TA7	62849	AQ	34	25*	36	24*	1			✓		42/54
E2K7858F/R	05:11	K2155-12A	B9TC9	62849	AQ	72	50	82	53	1			✓		
E2K7859F/R	05:32	K2155-13A	B9TB9	62849	AQ	58	30*	64	30	1			✓		
E2K7860F/R	05:53	K2155-14A	B9TC1	62849	AQ	65	38	72	38	1			✓		
E2K7861F/R	06:14	K2155-14AMS	B9TC1MS	62849	AQ	77	40	85	40	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

Logbook ID 60.0176-08/11

[illegible] 11/15/11

1043

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E2

Spectrum Analytical, Inc. RI Division E2 Injection Log
GC Semivolatiles Laboratory

METHOD: ARO ANALYST: [illegible]
ICAL DATE: 11/15/11

START BATCH: 111115F.B Start: 15-NOV-11 23:02
END BATCH: 111115F.B End: 16-NOV-11 14:22

Inlet Maintenance By:
Liner :
Column :
Inlet Seal: b
Septum :

Comments: STDs Page 96

Reviewed By: [illegible] 11/17/11 Manual Integration: [illegible] 11/16/11 MI Review: [illegible] 11/17/11

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MI	SURROGATES FRONT TCMX	SURROGATES FRONT DCB	SURROGATES REAR TCMX	SURROGATES REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E2K7934F/R	23:02	AIBLKKF	AIBLKKF		AQ					1					
E2K7935F/R	23:23	AIBLKKF	AIBLKKF		AQ					1					
E2K7936F/R	23:43	AIBLKKF	AIBLKKF		AQ					1					
E2K7937F/R	00:04	AIBLKKF	AIBLKKF		AQ					1					
E2K7938F/R	00:25	AIBLKKF	AIBLKKF		AQ					1					
E2K7939F/R	00:46	AIBLKKF	AIBLKKF		AQ					1					
E2K7940F/R	01:07	AIBLKKF	AIBLKKF		AQ					1					
E2K7941F/R	01:28	AIBLKKF	AILBKKF		AQ					1					
E2K7942F/R	01:49	AIBLKKG	AIBLKKG		AQ					1			✓		
E2K7943F/R	02:10	AR16603KG	AR16603KG		AQ					1			✓	✓	
E2K7944F/R	02:31	AR12423KG	AR12423KG		AQ					1			✓	✓	
E2K7945F/R	02:52	AR12483KG	AR12483KG		AQ					1			✓	✓	
E2K7946F/R	03:13	AR12543KG	AR12543KG		AQ					1			✓	✓	
E2K7947F/R	03:34	AR12683KG	AR12683KG		AQ					1			✓	✓	
E2K7948F/R	03:55	MB-62638	ABLK2M	62638	AQ	76	74	85	75	1			✓		
E2K7949F/R	04:15	LCS-62638	~~ALC2M~~ ALCS2M	62638	AQ	78	78	86	80	1			✓		
E2K7950F/R	04:36	K2200-02B	H30T9	62638	AQ	62	48	67	47	1			✓		
E2K7951F/R	04:57	K2200-03B	H30W0	62638	AQ	61	39	66	38	1			✓		MI_F11
E2K7952F/R	05:18	K2200-04B	H30W1	62638	AQ	73	48	79	48	1			✓		
E2K7953F/R	05:39	K2200-05B	H30W2	62638	AQ	74	54	81	54	1			✓		
E2K7954F/R	06:00	K2200-06B	H30W3	62638	AQ	78	58	86	58	1			✓		
E2K7955F/R	06:21	K2200-07B	H30W4	62638	AQ	72	60	78	60	1			✓		
E2K7956F/R	06:42	K2200-08B	H30W5	62638	AQ	76	60	83	61	1			✓		MI_F1_11
E2K7957F/R	07:03	K2200-09B	H30W6	62638	AQ	69	54	75	54	1			✓		
E2K7958F/R	07:24	K2200-10B	H30W7	62638	AQ	72	54	79	54	1			✓		
E2K7959F/R	07:45	K2200-11B	H30W8	62638	AQ	64	47	70	47	1			✓		
E2K7960F/R	08:06	K2200-12B	H30X0	62638	AQ	67	55	73	56	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

Logbook ID 60.0176-11/11

[illegible] 11/16/11

1044

Spectrum Analytical, Inc. RI Division - PEST/PCB RUN LOGBOOK: INSTRUMENT E2

Spectrum Analytical, Inc. RI Division E2 Injection Log
GC Semivolatiles Laboratory

METHOD: 4ARO ANALYST: Cmo
ICAL DATE: 10/13/11

START BATCH: 111115F.B Start: 15-NOV-11 23:02
END BATCH: 111115F.B End: 16-NOV-11 14:22

STDs Page 96

Inlet Maintenance By:
Liner :
Column :
Inlet Seal: b
Septum :

Comments:

Reviewed By: 11/17/11 Manual Integration: 10/10 MI Review: 11/17/11

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	SURROGATES FRONT TCMX	FRONT DCB	REAR TCMX	REAR DCB	DILN	FLAGS F	FLAGS R	ANALYST CHECK F	ANALYST CHECK R	COMMENTS
E2K7961F/R	08:26	K2200-13B	H30X1	62638	AQ	67	53	74	54	1			✓		
E2K7962F/R	08:47	K2200-14B	H30Y2	62638	AQ	55	26*	59	25*	1			✓		
E2K7963F/R	09:08	K2200-15B	H30Y3	62638	AQ	42	19*	45	18*	1			✓		
E2K7964F/R	09:29	K2200-16B	H30Y4	62638	AQ	36	21*	38	20*	1			✓		
E2K7965F/R	09:50	K2200-17B	H30Y5	62638	AQ	48	18*	50	17*	1			✓		
E2K7966F/R	10:11	K2200-18B	H30Y6	62638	AQ	32	16*	33	15*	1			✓		
E2K7967F/R	10:32	K2200-19B	H30Z6	62638	AQ	50	47	54	47	1			✓		
E2K7968F/R	10:53	K2200-20A	H30X3	62638	AQ	48	18*	52	17*	1			✓		
E2K7969F/R	11:14	MB-62719	ABLK2N	62719	AQ	75	77	82	80	1			✓		
E2K7970F/R	11:35	LCS-62719	ALCS2N	62719	AQ	77	76	85	79	1			✓		
E2K7971F/R	11:56	K2200-20AMS	H30X3MS	62719	AQ	57	38	60	38	1			✓		
E2K7972F/R	12:16	K2200-20AMSD	H30X3MSD	62719	AQ	49	34	51	33	1			✓		
E2K7973F/R	12:37	AIBLKKH	AIBLKKH		AQ					1			✓		
E2K7974F/R	12:58	AR16603KH	AR16603KH		AQ					1			✓	✓	
E2K7975F/R	13:19	AR12423KH	AR12423KH		AQ					1			✓	✓	
E2K7976F/R	13:40	AR12483KH	AR12483KH		AQ					1			✓	✓	
E2K7977F/R	14:01	AR12543KH	AR12543KH		AQ					1			✓	✓	
E2K7978F/R	14:22	AR12683KH	AR12683KH		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

Cmo 11/16/11

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
10/28/11	K2174	Sevenson ~~CAW~~ CAW 10/28/11	01-03	CAW	AED	H	R9	
	K2175	CDM	01, 03, 04 - 06 SN 10/31/11			H	R9	
	~~K2186~~	~~CDM~~	~~01 - 06~~ SN 10/31/11			H	R9	
	K2188	EPA	01			OS	R10	
	K2190	PhenFab	01			H	R10	
	K2191	ERM	01-02			H	R10	
	K2192	AECom	01, 03, 05-07, 09-15			OS	R10	
	K2192	AECom	04, 08			H	R10	
	K2195	EPA	01-04			H	R10	
10/28/11	K2151	ERM	02-03 04-14	CAW		US	R10	
10/28/11	K2199 K2198	EPA	02-03 01-20	CAW		OS	F4	
10/28/11	K2200	EPA	01-18, 19	CAW		T	R4	
10-29-11	K2203	Sevenson	01 & 02	DRM		H	R10	
10-29-11	K2201	CDM	01-07	DRM	AED	H	R10	

Logbook ID 90.0191-07/11

Reviewed By: WL 11/1/11

"Preservative Used" Key

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

Client: EPAINV

Work Order: K2200 **Profile Name:** SOM_VIII_21

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
01A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
01A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
01A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
02A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
02A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
02A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
02B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
02B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
02B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
02B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
02B	002	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
02B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
02B	002	SOM1.2_SVOA_LOW_W	Consumed	Ken Pierce	11/2/2011 8:58:00 AM
02B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
02B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
03A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
03A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
03A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
03B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
03B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
03B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
03B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
03B	002	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
03B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
03B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
03B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
04B	001	SOM01.2_ARO_W	In	LOGIN: cnadeau	11/2/2011 2:55:00 PM
04B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: cnadeau	11/2/2011 2:55:00 PM
04B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:55:00 PM
04B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
04B	004	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
04B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM

Client: EPAINV

Work Order: K2200 **Profile Name:** SOM_VIII_21

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
05A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
05A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
05A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
05B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
05B	001	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
05B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
05B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
05B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
05B	002	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
06A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
06B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06B	003	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
06B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
06B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM

Client: EPAINV

Work Order: K2200 **Profile Name:** SOM_VIII_21

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
07B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
07B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
07B	004	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
07B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08B	001	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
08B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08B	002	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
08B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
08B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM

Client: EPAINV

Work Order: K2200 **Profile Name:** SOM_VIII_21

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
09B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
09B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09B	002	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
09B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
09B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
10B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
10B	004	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
10B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM

Client: EPAINV

Work Order: K2200 **Profile Name:** SOM_VIII_21

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
11B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
11B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11B	003	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
11B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
11B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
12B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12B	002	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
12B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
12B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM

Client: EPAINV

Work Order: K2200 **Profile Name:** SOM_VIII_21

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
13B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
13B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
13B	004	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
13B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
14B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
14B	004	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
14B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM

Client: EPAINV

Work Order: K2200 **Profile Name:** SOM_VIII_21

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
15B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
15B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
15B	004	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
15B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16B	001	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
16B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16B	002	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
16B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
16B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM

Client: EPAINV

Work Order: K2200 **Profile Name:** SOM_VIII_21

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
17B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17B	001	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
17B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17B	002	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
17B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17B	003	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
17B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
17B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18B	001	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
18B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
18B	003	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
19A	001	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
19A	002	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
19A	003	SOM1.2_VOA_TRACE_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM

Client: EPAINV

Work Order: K2200 **Profile Name:** SOM_VIII_21

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
19B	001	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
19B	001	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
19B	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
19B	002	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
19B	002	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
19B	002	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
19B	003	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
19B	003	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
19B	004	SOM01.2_ARO_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
19B	004	SOM1.2_SVOA_LOW_W	In	LOGIN: dmckenna	10/28/2011 5:18:00 PM
20A	001	SOM01.2_ARO_W	In	LOGIN: cnadeau	10/31/2011 11:08:00 AM
20A	001	SOM1.2_SVOA_LOW_W	In	LOGIN: cnadeau	10/31/2011 11:08:00 AM
20A	001	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/2/2011 2:54:00 PM
20A	002	SOM01.2_ARO_W	In	LOGIN: cnadeau	10/31/2011 11:08:00 AM
20A	002	SOM01.2_ARO_W	Consumed	Timothy McDaniel	11/3/2011 4:17:00 PM
20A	002	SOM1.2_SVOA_LOW_W	In	LOGIN: cnadeau	10/31/2011 11:08:00 AM
20A	003	SOM01.2_ARO_W	In	LOGIN: cnadeau	10/31/2011 11:08:00 AM
20A	003	SOM01.2_ARO_W	Consumed	Ken Pierce	11/2/2011 8:52:00 AM
20A	003	SOM1.2_SVOA_LOW_W	In	LOGIN: cnadeau	10/31/2011 11:08:00 AM
20A	004	SOM01.2_ARO_W	In	LOGIN: cnadeau	10/31/2011 11:08:00 AM
20A	004	SOM1.2_SVOA_LOW_W	In	LOGIN: cnadeau	10/31/2011 11:08:00 AM
20A	004	SOM1.2_SVOA_LOW_W	Consumed	Antonio AP Cardoso	11/3/2011 12:21:00 PM

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division (MITKEM) ** Standards Log ** H30S7

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
VP081114A	8260 Compounds	11/14/08	12/31/10	2500	µg/mL	1 mL	MeOH		HZA	
VP090908C	BFB	09/08/09	06/30/12	2000	µg/mL	1 mL	MeOH		AM	YD
VP100208F	KETONES	02/08/10	09/01/12	5000	µg/mL	1 mL			WL	
VP100604C	SOM IS	06/04/10	11/01/14	2500	µg/mL	1 mL			WL	
VP101115A	502.2 CALIBRATION MIX	11/15/10	05/30/17	2000	µg/mL	1 mL	MeOH		SMZ	YD
VP110115B	2-BUTANONE-D5	01/15/11	01/15/16	neat					WL	YD
VP110115C	2-HEXANONE-D5	01/15/11	01/15/16	neat					WL	YD
VP110210A	SOM DMC GAS	02/10/11	05/08/13	2000	µg/mL	1 mL			WL	
VP110210C	SOM DMC NONGAS	02/10/11	05/08/13	2000	µg/mL	1 mL			WL	
VP110215A	SOM STD	02/15/11	06/01/13	2000	µg/mL	1 mL	MeOH		WL	YD
VW110817D	SOM DMCB STOCK	08/17/11	02/17/12	5000	µg/mL	4 mL			WL	
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
VP110115B	2-BUTANONE-D5			neat		20	mg			
VP110115C	2-HEXANONE-D5			neat		20	mg			
VW110911A	SOM BFB	09/11/11	03/10/12	25	µg/mL	4 mL	MeOH	51145	WL	
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
VP090908C	BFB			2000	µg/mL	50	µL			
VW110926A	TVOA IS	09/26/11	10/25/11	20	µg/mL	4 mL	MeOH	51145	WL	
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
VP100604C	SOM IS			2500	µg/mL	0.032	mL			
VW110926B	TVOA DMC	09/26/11	12/25/11	20 - 200	µg/mL	4 mL	MeOH	51145	WL	
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
VP110210A	SOM DMC GAS			2000	µg/mL	0.04	mL			
VP110210C	SOM DMC NONGAS			2000	µg/mL	0.04	mL			
VW110817D	SOM DMCB STOCK			5000	µg/mL	0.16	mL			
VW111015A	TVOA STD	10/15/11	11/15/11	20 - 200	µg/mL	4 mL	MeOH	51145	WL	
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
VP081114A	8260 Compounds			2500	µg/mL	0.032	mL			
VP100208F	KETONES			5000	µg/mL	0.16	mL			
VP101115A	502.2 CALIBRATION MIX			2000	µg/mL	0.04	mL			
VP110215A	SOM STD			2000	µg/mL	0.04	mL			
VW111024A	TVOA IS	10/24/11	11/24/11	20	µg/mL	4 mL	MeOH	51145	WL	
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
VP100604C	SOM IS			2500	µg/mL	0.032	mL			

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division (MITKEM) ** Standards Log ** H30S7

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
VW111024B	TVOA DMC	10/24/11	11/24/11	20 - 200	µg/mL	4 mL			WL	

Stock ID	Analyte(s)		Conc	Conc Units	Amt Added	Amt Added Units
VP110210A	SOM DMC GAS		2000	µg/mL	0.04	mL
VP110210C	SOM DMC NONGAS		2000	µg/mL	0.04	mL
VW110817D	SOM DMCB STOCK		5000	µg/mL	0.16	mL

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division (MITKEM) ** Standards Log ** H30S7

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
SP061226C	2,3,4,6-Tetrachlorophenol	12/26/06	06/30/14	1000	µg/mL	1 mL				
SP080617A	Pentachlorobenzene	06/17/08	06/17/13	neat					SGW	YD
SP081008I	BENZALDEHYDE	02/06/09	02/06/14	neat					BM	YD
SP091020E	CLP04.1 Phenols Calibration Mix	10/20/09	05/01/15	2000 - 4000	µg/mL	1 mL	MeCL2		BM	BM
SP100308A	CHRYSENE-D12	03/08/10	03/08/15	neat					MMS	YD
SP100308B	1,4-DICHLOROBENZENE-D4	03/08/10	03/08/15	neat					MMS	BM
SP100308C	ACENAPHTHENE-D10	03/08/10	03/08/15	neat					MMS	YD
SP100308E	PERYLENE-D12	03/08/10	03/08/15	neat					MMS	YD
SP100308F	PHENANTHRENE-D10	03/08/10	03/08/15	neat					MMS	BM
SP100721I	Naphthalene-D8	07/21/10	07/21/15	neat		mL			TM	BM
SP100910E	ATRAZINE	09/10/10	02/28/14	1000	µg/mL	mL	ACE		MMS	BM
SP101202A	3,3'-Dichlorobenzidine	12/02/10	09/30/14	5000	µg/mL	mL	MeOH		MMS	BM
SP101215A	2-METHYLNAPHTHALENE-D10	12/15/10	06/18/20	200	µg/mL	mL			MMS	BM
SP110107D	ACENAPHTHENE-D10	01/07/11	01/07/16	neat					MMS	BM
SP110119A	CLP SVOA TUNING STANDARD (DF	01/19/11	07/20/12	1000	µg/mL	mL			MMS	MMS
IC101202A.	PYRIDINE	02/22/11	12/31/15	neat					MMS	YD
SI110222A	PYRIDINE INTERMEDIATE	02/22/11	02/22/12	5000	µg/mL	5 mL	MeCL2	DD325	MMS	YD
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
C101202A	PYRIDINE			neat		0.025	g			
SI110222B	PENTACHLOROBENZENE INTERME	02/22/11	02/22/12	5000	µg/mL	5 mL	MeCL2	DD325	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
SP080617A	Pentachlorobenzene			neat		0.025	g			
SI110224A	SVOA INTERNAL STANDARD	02/24/11	02/24/12	2000	µg/mL	100 mL	MeCL2	DD325	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
SP100308A	CHRYSENE-D12			neat		0.2	g			
SP100308B	1,4-DICHLOROBENZENE-D4			neat		0.2	g			
SP100308C	ACENAPHTHENE-D10			neat		0.2	g			
SP100308E	PERYLENE-D12			neat		0.2	g			
SP100308F	PHENANTHRENE-D10			neat		0.2	g			
SP100721I	Naphthalene-D8			neat		0.2	g			
SP110304C	CAPROLACTAM STANDARD	03/04/11	11/30/12	2000	µg/mL	mL	MeCL2		MMS	BM
SP110304H	NAPHTHALENE-D8	03/04/11	03/04/16	1	µg/mL				MMS	BM
SP110304I	CHRYSENE-D12	03/04/11	03/04/16	1	µg/mL				MMS	BM
SP110406B	2-METHYLNAPHTHALENE-D10	04/06/11	06/18/20	200	µg/mL	1 mL	ISOO		MMS	MMS

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division (MITKEM) ** Standards Log ** H30S7

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
SP110406D	FLOURANTHENE-D10	04/06/11	11/20/19	200	µg/mL	1 mL	ISOO		MMS	BM
SP110421C	CLP SVOA DMC STOCK SOLUTION	04/21/11	11/25/13	2000	µg/mL	4 mL	MeCL2		MMS	BM
SP110505D	CLP SVOA DMC STOCK SOLUTION	05/05/11	12/15/16	2000	µg/mL	1 mL	MeCL2		MMS	BM
SP110505G	B/N MATRIX SPIKE MIX	05/05/11	03/31/14	5000	µg/mL	1 mL	MeOH		MMS	BM
SP110505I	ACID MATRIX SPIKE MIX	05/05/11	06/30/13	7500	µg/mL	1 mL	MeOH		MMS	BM
SP110512A	CLP 04.1 B/N MEGAMIX A	05/12/11	11/30/12	1000	µg/mL	1 mL	MeCL2		MMS	BM
SP110518B	1,2,3,4-TETRACHLOROBENZENE	05/18/11	08/31/13	1000	µg/mL	1 mL	HEX		MMS	BM
SP110607E	PERYLENE-D12	06/07/11	06/07/16	1	µg/mL	1			MMS	BM
SP110617A	FLOURANTHENE-D10	06/17/11	11/20/19	200	µg/mL	1 mL	ISOO		MMS	BM
SP110719B	1,2,4,5-TETRACHLOROBENZENE	07/19/11	07/31/13	1000	µg/mL	1 mL	ACN		MMS	CLM
OSW110725C	SOM LOW/SIM SURROGATE	07/25/11	07/25/12	0.4 - 40	µg/mL	500 mL	MeOH	105003	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SP110406B	2-METHYLNAPHTHALENE-D10			200	µg/mL	1	mL			
SP110406D	FLOURANTHENE-D10			200	µg/mL	1	mL			
SP110421C	CLP SVOA DMC STOCK SOLUTION			2000	µg/mL	10	mL			
SI110727A	DFTPP INTERMEDIATE	07/27/11	07/20/12	50	µg/mL	10 mL	MeCL2	DD852	MMS	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SP110119A	CLP SVOA TUNING STANDARD (DFT			1000	µg/mL	500	µL			
SW110727A	SOM DFTPP	07/27/11	07/20/12	25	µg/mL	0.5 mL	MeCL2	DD852	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SI110727A	DFTPP INTERMEDIATE			50	µg/mL	250	µL			
SI110818A	SVOA INTERNAL STANDARD	08/18/11	08/18/12	2000	µg/mL	100 mL	MeCL2	DE502	MMS	MMS
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SP100308B	1,4-DICHLOROBENZENE-D4			neat		0.2	g			
SP100308F	PHENANTHRENE-D10			neat		0.2	g			
SP110107D	ACENAPHTHENE-D10			neat		0.2	g			
SP110304H	NAPHTHALENE-D8			1	µg/mL	0.2	g			
SP110304I	CHRYSENE-D12			1	µg/mL	0.2	g			
SP110607E	PERYLENE-D12			1	µg/mL	0.2	g			

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
SI110914A	SOM LOW INTERMEDIATE	09/14/11	02/22/12	100 - 200	µg/mL	4 mL	MeCL2	DE575	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SI110222A	PYRIDINE INTERMEDIATE			5000	µg/mL	80	µL			
SI110222B	PENTACHLOROBENZENE INTERME DIATE			5000	µg/mL	80	µL			
SP061226C	2,3,4,6-Tetrachlorophenol			1000	µg/mL	400	µL			
SP091020E	CLP04.1 Phenols Calibration Mix			2000 - 4000	µg/mL	200	µL			
SP100910E	ATRAZINE			1000	µg/mL	400	µL			
SP101202A	3,3'-Dichlorobenzidine			5000	µg/mL	80	µL			
SP110304C	CAPROLACTAM STANDARD			2000	µg/mL	200	µL			
SP110505D	CLP SVOA DMC STOCK SOLUTION			2000	µg/mL	200	µL			
SP110512A	CLP 04.1 B/N MEGAMIX A			1000	µg/mL	400	µL			
SP110518B	1,2,3,4-TETRACHLOROBENZENE			1000	µg/mL	400	µL			
SP110719B	1,2,4,5-TETRACHLOROBENZENE			1000	µg/mL	400	µL			
OSW110916A	SOM LOW MS	09/16/11	09/16/12	40 - 40.00005	µg/mL	50 mL	MeCL2	DE575	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SP110505G	B/N MATRIX SPIKE MIX			5000	µg/mL	400	µL			
SP110505I	ACID MATRIX SPIKE MIX			7500	µg/mL	266.7	µL			
SP111006A	CLP SVOA DMC STOCK SOLUTION	10/06/11	09/30/16	2000	µg/mL	14 mL	MeCL2		MMS	BM
OSW111013A	SOM LOW/SIM SURROGATE	10/13/11	10/13/12	0.4 - 40	µg/mL	500 mL	MeOH	107164	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SP101215A	2-METHYLNAPHTHALENE-D10			200	µg/mL	1	mL			
SP110617A	FLOURANTHENE-D10			200	µg/mL	1	mL			
SP111006A	CLP SVOA DMC STOCK SOLUTION			2000	µg/mL	10	mL			
SI111013A	BENZALDEHYDE INTERMEDIATE	10/13/11	10/13/12	2000	µg/mL	50 mL	MeCL2	DE575	MMS	
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SP081008I	BENZALDEHYDE			neat		0.1	g			
SW111019B	SOM L2	10/18/11	02/22/12	10 - 20	µg/mL	0.5 mL	MeCL2	DE575	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SI110818A	SVOA INTERNAL STANDARD			2000	µg/mL	5	µL			
SI110914A	SOM LOW INTERMEDIATE			100 - 200	µg/mL	50	µL			
SI111013A	BENZALDEHYDE INTERMEDIATE			2000	µg/mL	2.5	µL			

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division (MITKEM) ** Standards Log ** H30S7

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
SW111019A	SOM L1	10/19/11	02/22/12	5 - 20	µg/mL	0.5 mL	MeCL2	DE575	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SI110818A	SVOA INTERNAL STANDARD			2000	µg/mL	5	µL			
SI110914A	SOM LOW INTERMEDIATE			100 - 200	µg/mL	25	µL			
SI111013A	BENZALDEHYDE INTERMEDIATE			2000	µg/mL	1.25	µL			
SW111019C	SOM L3	10/19/11	02/22/12	20 - 40	µg/mL	0.5 mL	MeCL2	DE575	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SI110818A	SVOA INTERNAL STANDARD			2000	µg/mL	5	µL			
SI110914A	SOM LOW INTERMEDIATE			100 - 200	µg/mL	100	µL			
SI111013A	BENZALDEHYDE INTERMEDIATE			2000	µg/mL	5	µL			
SW111019D	SOM L4	10/19/11	02/22/12	20 - 80	µg/mL	0.5 mL	MeCL2	DE575	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SI110818A	SVOA INTERNAL STANDARD			2000	µg/mL	5	µL			
SI110914A	SOM LOW INTERMEDIATE			100 - 200	µg/mL	200	µL			
SI111013A	BENZALDEHYDE INTERMEDIATE			2000	µg/mL	10	µL			
SW111019E	SOM L5	10/19/11	02/22/12	20 - 160	µg/mL	0.5 mL	MeCL2	DE575	MMS	BM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
SI110818A	SVOA INTERNAL STANDARD			2000	µg/mL	5	µL			
SI110914A	SOM LOW INTERMEDIATE			100 - 200	µg/mL	400	µL			
SI111013A	BENZALDEHYDE INTERMEDIATE			2000	µg/mL	20	µL			

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division (MITKEM) ** Standards Log ** H30S7

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
PP080711C	AR 1221	07/11/08	12/31/14	1000	µg/mL	1 mL	HEX		SMZ	CLM
PP100105C	1268	01/05/10	05/31/15	1000	µg/mL	1 mL	HEX		KB	CLM
PP100601B	ARO 1016/1260	06/01/10	08/01/16	1000	µg/mL	1 mL	HEX		DJL	CLM
PP100609B	ARO 1016/1260 MIX	06/09/10	08/01/16	1000	µg/mL	1 mL	HEX		DJL	CLM
PP100730A	ARO 1254	07/30/10	07/01/16	1000	µg/mL	1 mL	HEX		CJT	CLM
PP100730B	ARO 1242	07/30/10	07/01/16	1000	µg/mL	1 mL	HEX		CJT	CLM
PP100730C	ARP 1662	07/30/10	07/01/16	1000	µg/mL	1 mL	HEX		CJT	CLM
PP101203B	TCX MIX	12/03/10	05/01/17	200	µg/mL	1 mL	ACE		DJL	CLM
PP101203D	ARO1248	12/03/10	02/01/17	1000	µg/mL	1 mL	HEX		DJL	CLM
PP101203E	ARO 1232	12/03/10	04/01/17	1000	µg/mL	1 mL	HEX		DJL	CLM
PP110505D	DCB MIX	05/05/11	02/01/15	200	µg/mL	1 mL	ACE		DJL	CLM
PI110524A	ARO 1660 PI	05/24/11	11/24/11	10	µg/mL	100 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
PP100601B	ARO 1016/1260			1000	µg/mL	1	Ml			
PI110524B	ARO 1242 PI	05/24/11	11/24/11	10	µg/mL	100 mL	HEX	DD460	CJT	SBL
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
PP100730B	ARO 1242			1000	µg/mL	1	Ml			
PI110524C	ARO 1248 PI	05/24/11	11/24/11	10	µg/mL	100 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
PP101203D	ARO1248			1000	µg/mL	1	Ml			
PI110524D	ARO 1254 PI	05/24/11	11/24/11	10	µg/mL	100 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
PP100730A	ARO 1254			1000	µg/mL	1	Ml			
PI110524E	ARO 1221 PI	05/24/11	11/24/11	20	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
PP080711C	AR 1221			1000	µg/mL	1	Ml			
PI110524F	ARO 1232 PI	05/24/11	11/24/11	20	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
PP101203E	ARO 1232			1000	µg/mL	1	Ml			
PI110524G	ARO 1268 PI	05/24/11	11/24/11	20	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added		Amt Added Units		
PP100105C	1268			1000	µg/mL	1	Ml			

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
PI110524H	ARO 1262 PI	05/24/11	11/24/11	20	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PP100730C	ARP 1662			1000	µg/mL	1	Ml			
PI110524I	SOM SURR PI	05/24/11	11/24/11	2 - 4	µg/mL	100 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PP101203B	TCX MIX			200	µg/mL	1	Ml			
PP110505D	DCB MIX			200	µg/mL	2	mL			
PW110524A	AR 1221 L3	05/24/11	11/24/11	0.02 - 0.4	µg/mL	100 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524E	ARO 1221 PI			20	µg/mL	2	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	1	mL			
PW110524AA	AR 1254 L1	05/24/11	11/24/11	0.005 - 0.1	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524D	ARO 1254 PI			10	µg/mL	0.5	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	0.125	mL			
PW110524AC	SOM PIBLK	05/24/11	11/24/11	0.02 - 0.04	µg/mL	200 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524I	SOM SURR PI			2 - 4	µg/mL	2	mL			
PW110524B	AR 1232 L3	05/24/11	11/24/11	0.02 - 0.4	µg/mL	100 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524F	ARO 1232 PI			20	µg/mL	2	mL			
PI110524I	SOM SURR PI			2 - 4	µg/mL	1	mL			
PW110524C	AR 1262 L3	05/24/11	11/24/11	0.02 - 0.4	µg/mL	100 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524H	ARO 1262 PI			20	µg/mL	2	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	1	mL			
PW110524D	ar 1268 l3	05/24/11	11/24/11	0.02 - 0.4	µg/mL	100 mL	HEX	dd460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524G	ARO 1268 PI			20	µg/mL	2	mL			
PI110524I	SOM SURR PI			2 - 4	µg/mL	1	mL			
PW110524E	AR 1660 L5	05/24/11	11/24/11	0.08 - 1.6	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524A	ARO 1660 PI			10	µg/mL	8	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	2	mL			

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division (MITKEM) ** Standards Log ** H30S7

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
PW110524F	AR 1660 L4	05/24/11	11/24/11	0.04 - 0.8	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524A	ARO 1660 PI			10	µg/mL	4	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	1	mL			
PW110524G	AR 1660 L3	05/24/11	11/24/11	0.02 - 0.4	µg/mL	200 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524A	ARO 1660 PI			10	µg/mL	8	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	2	mL			
PW110524H	AR 1660 L2	05/24/11	11/24/11	0.01 - 0.2	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524A	ARO 1660 PI			10	µg/mL	1	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	0.25	mL			
PW110524I	AR 1660 L1	05/24/11	11/24/11	0.005 - 0.1	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524A	ARO 1660 PI			10	µg/mL	0.5	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	0.125	mL			
PW110524K	AR 1242 L5	05/24/11	11/24/11	0.08 - 1.6	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524B	ARO 1242 PI			10	µg/mL	8	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	2	mL			
PW110524L	AR 1242 L4	05/24/11	11/24/11	0.04 - 0.8	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524B	ARO 1242 PI			10	µg/mL	4	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	1	mL			
PW110524M	AR 1242 L3	05/24/11	11/24/11	0.02 - 0.4	µg/mL	200 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524B	ARO 1242 PI			10	µg/mL	8	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	2	mL			
PW110524N	AR 1242 L2	05/24/11	11/24/11	0.01 - 0.2	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524B	ARO 1242 PI			10	µg/mL	1	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	0.25	mL			

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
PW110524O	AR 1242 L1	05/24/11	11/24/11	0.005 - 0.1	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524B	ARO 1242 PI			10	µg/mL	0.5	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	0.125	mL			
PW110524Q	AR 1248 L5	05/24/11	11/24/11	0.08 - 1.6	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524C	ARO 1248 PI			10	µg/mL	8	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	2	mL			
PW110524R	AR 1248 L4	05/24/11	11/24/11	0.04 - 0.8	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524C	ARO 1248 PI			10	µg/mL	4	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	1	mL			
PW110524S	AR 1248 L3	05/24/11	11/24/11	0.02 - 0.4	µg/mL	200 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524C	ARO 1248 PI			10	µg/mL	8	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	2	mL			
PW110524T	AR 1248 L2	05/24/11	11/24/11	0.01 - 0.2	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524C	ARO 1248 PI			10	µg/mL	1	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	0.25	mL			
PW110524U	AR 1248 L1	05/24/11	11/24/11	0.005 - 0.1	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524C	ARO 1248 PI			10	µg/mL	0.5	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	0.125	mL			
PW110524W	AR 1254 L5	05/24/11	11/24/11	0.08 - 1.6	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524D	ARO 1254 PI			10	µg/mL	8	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	2	mL			
PW110524X	AR 1254 L4	05/24/11	11/24/11	0.04 - 0.8	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524D	ARO 1254 PI			10	µg/mL	4	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	1	mL			

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division (MITKEM) ** Standards Log ** H30S7

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
PW110524Y	AR 1254 L3	05/24/11	11/24/11	0.02 - 0.4	µg/mL	200 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524D	ARO 1254 PI			10	µg/mL	8	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	2	mL			
PW110524Z	AR 1254 L2	05/24/11	11/24/11	0.01 - 0.2	µg/mL	50 mL	HEX	DD460	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524D	ARO 1254 PI			10	µg/mL	1	Ml			
PI110524I	SOM SURR PI			2 - 4	µg/mL	0.25	mL			
PI110601A	SOM SURR PI	06/01/11	12/01/11	2 - 4	µg/mL	100 mL	HEX	DD640	DJL	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PP101203B	TCX MIX			200	µg/mL	1	mL			
PP110505D	DCB MIX			200	µg/mL	2	mL			
OPW110606A	SOM ARO LCS	06/06/11	11/24/11	1	µg/mL	50 mL	ACE	107200	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524A	ARO 1660 PI			10	µg/mL	5	Ml			
PP110608C	TCX MIX	06/08/11	05/31/17	200	µg/mL	1 mL	ACE		DJL	CLM
OPW110701A	PCB LACS/MS SPIKE	07/01/11	01/01/12	4	µg/mL	250 mL	ACE	108096	CJT	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PP100609B	ARO 1016/1260 MIX			1000	µg/mL	1	Ml			
PP110804C	Decachlorobiphenyl Mix	08/04/11	02/01/15	200	µg/mL	1 mL	ACE		GMA	CLM
OPW110822B	P/P SURROGATES	08/22/11	02/22/12	0.6 - 1.2	µg/mL	1000 mL	ACE	096250	GMA	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PP110608C	TCX MIX			200	µg/mL	3	Ml			
PP110804C	Decachlorobiphenyl Mix			200	µg/mL	6	mL			
PW111113A	1268 L5	11/13/11	11/24/11	0.08 - 1.6	µg/mL	10 mL	HEX	DA782	GMA	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524G	ARO 1268 PI			20	µg/mL	0.8	mL			
PI110601A	SOM SURR PI			2 - 4	µg/mL	0.4	mL			
PW111113B	1268 L4	11/13/11	11/24/11	0.04 - 0.8	µg/mL	10 mL	HEX	DA782	GMA	CLM
Stock ID	Analyte(s)			Conc	Conc Units	Amt Added	Amt Added Units			
PI110524G	ARO 1268 PI			20	µg/mL	0.4	mL			
PI110601A	SOM SURR PI			2 - 4	µg/mL	0.2	mL			

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
PW111113C	1268 L3	11/13/11	11/24/11	0.02 - 0.4	µg/mL	10 mL	HEX	DA782	GMA	CLM

Stock ID	Analyte(s)	Conc	Conc Units	Amt Added	Amt Added Units
PI110524G	ARO 1268 PI	20	µg/mL	0.2	mL
PI110601A	SOM SURR PI	2 - 4	µg/mL	0.1	mL

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
PW111113D	1268 L2	11/13/11	11/24/11	0.01 - 0.2	µg/mL	10 mL	HEX	DA782	GMA	CLM

Stock ID	Analyte(s)	Conc	Conc Units	Amt Added	Amt Added Units
PI110524G	ARO 1268 PI	20	µg/mL	0.1	mL
PI110601A	SOM SURR PI	2 - 4	µg/mL	0.05	mL

STD ID	Analyte(s)	Prep Date	Exp Date	Final Conc	Conc Units	Fin Vol	Solvent	Sol Lot	Prep By	Val By
PW111113E	1268 L1	11/13/11	11/24/11	0.005 - 0.1	µg/mL	10 mL	HEX	DA782	GMA	CLM

Stock ID	Analyte(s)	Conc	Conc Units	Amt Added	Amt Added Units
PI110524G	ARO 1268 PI	20	µg/mL	0.05	mL
PI110601A	SOM SURR PI	2 - 4	µg/mL	0.025	mL

FedEx Express USA Airbill 841829696944

0200 Form I.D. No.

FedEx Retrieval Copy

1 From

Date 10/ 11

Sender's FedEx Account Number

Sender's Name Snehal Mehta Phone 908 787-8100

Company Chemtech

Address 284 Sheffield St

Dept./Floor/Suite/Room

City Mountainside State NJ ZIP 07092

2 Your Internal Billing Reference 36549159.00000

3 To

Recipient's Name Spectrum Analytical/Agnes Huntley Phone 401 7[illegible]

Company DBA: MITKEM Laboratories MITKEM

Address 175 Metro Center Boulevard

for "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept./Floor/Suite/Room

City Warwick State RI ZIP 02886

8418 2969 6944

Agnes R Huntley 10/28/11

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

1 [X] FedEx Priority Overnight Next business morning
5 [ ] FedEx Standard Overnight Next business afternoon
6 [ ] FedEx First Overnight Earliest next business morning delivery to select locations
3 [ ] FedEx 2Day Second business day
20 [ ] FedEx Express Saver Third business day

FedEx Envelope rate not available. Minimum charge. One pound rate.

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

7 [ ] FedEx 1Day Freight* Next business day
8 [ ] FedEx 2Day Freight Second business day
83 [ ] FedEx 3Day Freight Third business day

* Call for Confirmation

5 Packaging * Declared value limit $500

6 [ ] FedEx Envelope*
2 [ ] FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
1 [X] Other

6 Special Handling Include FedEx address in Section 3

3 [ ] SATURDAY Delivery Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
1 [ ] HOLD Weekday at FedEx Location Not available for FedEx First Overnight
31 [ ] HOLD Saturday at FedEx Location Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

[X] No 4 [ ] Yes As per attached Shipper's Declaration [ ] Yes Shipper's Declaration not required 6 [ ] Dry Ice Dry Ice, 9, UN 1845 ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below [ ] Obtain Recip. Acct. No.

1 [ ] Sender Acct. No. in Section 1 will be billed
2 [ ] Recipient
3 [ ] Third Party
4 [X] Credit Card
5 [ ] Cash/Check

FedEx Acct. No. Credit Card No. 1492-5293-2 Exp. Date

Total Packages	Total Weight		Total Charges
5	210	[redacted]	Credit Card Auth.

*Our liability is limited to $100 unless you declare a higher value. See the FedEx Service Guide for details.

8 Release Signature Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

446

Rev. Date 10/01 • Part #157812 • WCSL 03

Case 41926
SDG H3057

COPY
Original Documents Are Included in CSF H3000
Signed: ABH **Date:** 10/28/11

1068

FedEx Express **NEW Package US Airbill**

FedEx Tracking Number 8768 2874 0622

0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 10/27/11 Sender's FedEx Account Number 1942-5093-2

Sender's Name Jeh Patureau Phone 720 810-0792

Company URS Operating Services

Address 1099 18th St, ste 710 Dept./Floor/Suite/Room

City Denver State CO ZIP 80202

2 Your Internal Billing Reference 36549158.00000

3 To

Recipient's Name Dawne Smart Phone 401 732-3400

Company Spectrum Analytical, Inc

Address 175 Metro Center Blvd Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

01 ☐ HOLD Weekday FedEx location address REQUIRED. **NOT available for** FedEx First Overnight.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

31 ☐ HOLD Saturday FedEx location address REQUIRED. **Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

City Warwick State RI ZIP 02886

Agnes R Huntley 10/28/11

8768 2874 0622

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☑ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☑ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☑ No 04 ☐ Yes — As per attached Shipper's Declaration ☐ Yes — Shipper's Declaration not required

06 ☐ Dry Ice — Dry ice, 9, UN 1845 ___ x ___ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☑ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted]

Total Packages 4 Total Weight 244 lbs. [redacted] Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

Rev. Date 11/10 • Part #163136 • ©1994–2010 FedEx • PRINTED IN U.S.A. SRY

fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

Case 41926

SDG H3057

COPY

Original Documents Are Included in CSF H30Q0

Signed: AMH **Date:** 10/28/11

1069

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8768 2872 4020

0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 10/28/11 Sender's FedEx Account Number 1942-5093-2

Sender's Name Jen Patterson Phone 720 810-0798

Company UBS Operating Services

Address 1099 18th St, ste 710 Dept./Floor/Suite/Room

City Denver State CO ZIP 80202

2 Your Internal Billing Reference 3684 9109.00000

3 To

Recipient's Name Dawne Smart Phone 401 732-3400

Company Spectrum Analytical, Inc

Address 175 Metro Center Blvd Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Warwick State RI ZIP 02886

01 ☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Guy Rhodes 10/31/11

8768 2872 4020

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☑ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ **NEW** FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☑ Other

6 Special Handling and Delivery Signature Options

03 ☑ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

☑ No 04 ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. 06 ☐ Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☑ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted]

Total Packages 1 Total Weight 65 lbs. [redacted] Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

Rev. Date 11/10 • Part #163136 • ©1994–2010 FedEx • PRINTED IN U.S.A. SRY

fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

8768 2872 4020

Case 41926
SDG H3057

COPY
Original Documents Are Included in CSF H3DT6
Signed: AOK **Date:** 10/31/11

070

Contract Laboratory Program

Sample Delivery Group (SDG)

Cover Sheet

SDG Number H30S7

Laboratory Name	Mitkem Laboratories	Lab Code	MITKEM
Contract No.	EP-W-11-033	Case No.	41926
Analysis Price	$430	SDG Turnaround	21 days

EPA Sample Numbers in SDG (Listed in Numerical Order)

01) H30S7	08) H30W5	15) H30X3MS	22) H30Z6
02) H30T9	09) H30W6	16) H30X3MSD	
03) H30W0	10) H30W7	17) H30Y2	
04) H30W1	11) H30W8	18) H30Y3	
05) H30W2	12) H30X0	19) H30Y4	
06) H30W3	13) H30X1	20) H30Y5	
07) H30W4	14) H30X3	21) H30Y6	

First Sample in SDG	Last Sample in SDG
H30S7	H30X3

First Sample Receipt Date	Last Sample Receipt Date
10/28/2011	10/29/2011

Note: There are a maximum of 20 field samples [excluding Performance Evaluation (PE) samples in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature Agnes R Huntley Date 11/07/2011

SDG H30S7

USEPA
DateShipped: 10/27/2011
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 41926
Contact Name: Jeff Miller
Contact Phone: 720-219-7891

No: 8-102711-105926-0003
Cooler #:
Lab: Spectrum Analytical
Lab Phone: 401-732-3400

Lab #	CLP Sample #	Analyses	Matrix	Collected	Sample Time	Preservative	MS/MSD
	H30S4	Volatiles (VOAs)	Soil	10/25/2011	09:55		
	H30S4	Semivolatiles (SVOAs)/PCBs	Soil	10/25/2011	09:55		
	H30S5	Volatiles (VOAs)	Soil	10/25/2011	10:36		
	H30S5	Semivolatiles (SVOAs)/PCBs	Soil	10/25/2011	10:36		
	H30S7	Volatiles (VOAs)	Surface Water	10/26/2011	10:30	HCl	
	H30S8	Volatiles (VOAs)	Sediment	10/24/2011	14:00		
	H30S9	Volatiles (VOAs)	Sediment	10/24/2011	15:25		
	H30T0	Volatiles (VOAs)	Sediment	10/24/2011	16:11		
	H30T1	Volatiles (VOAs)	Sediment	10/24/2011	15:22		
	H30T2	Volatiles (VOAs)	Sediment	10/24/2011	16:45		
	H30T3	Volatiles (VOAs)	Sediment	10/24/2011	17:30		
	H30T4	Volatiles (VOAs)	Sediment	10/24/2011	17:45		
	H30T5	Volatiles (VOAs)	Sediment	10/25/2011	10:15		
	H30T6	Volatiles (VOAs)	Sediment	10/25/2011	11:35		
	H30T7	Volatiles (VOAs)	Sediment	10/25/2011	12:40		
	H30T9	Volatiles (VOAs)	Surface Water	10/24/2011	14:00	HCl	
	H30W0	Volatiles (VOAs)	Surface Water	10/24/2011	15:25	HCl	
	H30W1	Volatiles (VOAs)	Surface Water	10/24/2011	16:11	HCl	
	H30W2	Volatiles (VOAs)	Surface Water	10/24/2011	15:22	HCl	
	H30W3	Volatiles (VOAs)	Surface Water	10/24/2011	16:45	HCl	

Special Instructions: Results to jeff.miller@urscorp.com, amy.k.gray@urscorp.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Jen Peterson	10/27/11	FedEx	10/27/11	1400		FedEx	10-28-11	[illegible]	10-28-11	9:00

COPY
Original Documents Are Included in CSF H30Q0
Signed: ARM **Date:** 10/28/11

6.5°C 9.0°C 9.5°C 10.0°C 9.5°C

1072

SDG H3057

USEPA
DateShipped: 10/26/2011
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 41926
Contact Name: Jeff Miller
Contact Phone: 720-219-7891

No: 8-102611-105817-0002
Cooler #:
Lab: ChemTech Consulting Group
Lab Phone: 908-789-8900

Lab #	CLP Sample #	Analyses	Matrix	Collected	Sample Time	Preservative	MS/MSD
	H30S8	Semivolatiles (SVOAs)/PCBs	Sediment	10/24/2011	14:00		
	H30S9	Semivolatiles (SVOAs)/PCBs	Sediment	10/24/2011	15:25		
	H30T0	Semivolatiles (SVOAs)/PCBs	Sediment	10/24/2011	16:11		
	H30T1	Semivolatiles (SVOAs)/PCBs	Sediment	10/24/2011	15:22		
	H30T2	Semivolatiles (SVOAs)/PCBs	Sediment	10/24/2011	16:45		
	H30T3	Semivolatiles (SVOAs)/PCBs	Sediment	10/24/2011	17:30		
	H30T4	Semivolatiles (SVOAs)/PCBs	Sediment	10/24/2011	17:45		
	H30T5	Semivolatiles (SVOAs)/PCBs	Sediment	10/25/2011	10:15		
	H30T6	Semivolatiles (SVOAs)/PCBs	Sediment	10/25/2011	11:35		
	H30T7	Semivolatiles (SVOAs)/PCBs	Sediment	10/25/2011	12:40		
	H30T9	Semivolatiles (SVOAs)	Surface Water	10/24/2011	14:00		
	H30T9	Aroclors	Surface Water	10/24/2011	14:00		
	H30W0	Semivolatiles (SVOAs)	Surface Water	10/24/2011	15:25		
	H30W0	Aroclors	Surface Water	10/24/2011	15:25		
	H30W1	Semivolatiles (SVOAs)	Surface Water	10/24/2011	16:11		
	H30W1	Aroclors	Surface Water	10/24/2011	16:11		
	H30W2	Semivolatiles (SVOAs)	Surface Water	10/24/2011	15:22		
	H30W2	Aroclors	Surface Water	10/24/2011	15:22		
	H30W3	Semivolatiles (SVOAs)	Surface Water	10/24/2011	16:45		
	H30W3	Aroclors	Surface Water	10/24/2011	16:45		

Temp: 4°C

Special Instructions: Results to jeff.miller@urs.com, amy.k.gray@urs.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	10/26/11	FedEx	10/26/11	1302				[illegible]	10/27/11	9:15
									[illegible]	10-28-11	9:00

COPY
Original Documents Are Included In CSF H30Q0
Signed: AMA Date: 10/28/11

9.0°C 9.0°C 9.5°C 8.0°C 8.5°C

3 of 3

SDG H3057

USEPA
DateShipped: 10/26/2011
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 41926
Contact Name: Jeff Miller
Contact Phone: 720-219-7891

No: 8-102611-105817-0002
Cooler #:
Lab: ChemTech Consulting Group
Lab Phone: 908-789-8900

Lab #	CLP Sample #	Analyses	Matrix	Collected	Sample Time	Preservative	MS/MSD
	H30W4	Semivolatiles (SVOAs)	Surface Water	10/24/2011	17:30		
	H30W4	Aroclors	Surface Water	10/24/2011	17:30		
	H30W5	Semivolatiles (SVOAs)	Surface Water	10/24/2011	17:45		
	H30W5	Aroclors	Surface Water	10/24/2011	17:45		
	H30W6	Semivolatiles (SVOAs)	Surface Water	10/25/2011	10:15		
	H30W6	Aroclors	Surface Water	10/25/2011	10:15		
	H30W7	Semivolatiles (SVOAs)	Surface Water	10/25/2011	11:35		
	H30W7	Aroclors	Surface Water	10/25/2011	11:35		
	H30W8	Semivolatiles (SVOAs)	Surface Water	10/25/2011	12:40		
	H30W8	Aroclors	Surface Water	10/25/2011	12:40		

Temp: 4°C

Special Instructions: Results to jeff.miller@urs.com, amy.k.gray@urs.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/26/11	FedEx	10/26/11	1300				[signature]	10/27/11	9:15
									[signature]	10-28-11	9:00

9.0°C 9.0°C 9.5°C 8.0°C 8.5°C

1074

SDG H3057

USEPA

DateShipped: 10/27/2011
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 41926
Contact Name: Jeff Miller
Contact Phone: 720-219-7891

No: 8-102711-105926-0003

Cooler #:
Lab: Spectrum Analytical
Lab Phone: 401-732-3400

Lab #	CLP Sample #	Analyses	Matrix	Collected	Sample Time	Preservative	MS/MSD
	H30W4	Volatiles (VOAs)	Surface Water	10/24/2011	17:30	HCl	
	H30W5	Volatiles (VOAs)	Surface Water	10/24/2011	17:45	HCl	
	H30W6	Volatiles (VOAs)	Surface Water	10/25/2011	10:15	HCl	
	H30W7	Volatiles (VOAs)	Surface Water	10/25/2011	11:35	HCl	
	H30W8	Volatiles (VOAs)	Surface Water	10/25/2011	12:40	HCl	
	H30X0	Volatiles (VOAs)	Ground Water	10/26/2011	09:30	HCl	
	H30X0	Semivolatiles (SVOAs)	Ground Water	10/26/2011	09:30		
	H30X0	Aroclors	Ground Water	10/26/2011	09:30		
	H30X1	Volatiles (VOAs)	Ground Water	10/26/2011	10:30	HCl	
	H30X1	Semivolatiles (SVOAs)	Ground Water	10/26/2011	10:30		
	H30X1	Aroclors	Ground Water	10/26/2011	10:30		
	H30Y2	Volatiles (VOAs)	Ground Water	10/26/2011	10:55	HCl	
	H30Y2	Semivolatiles (SVOAs)	Ground Water	10/26/2011	10:55		
	H30Y2	Aroclors	Ground Water	10/26/2011	10:55		
	H30Y3	Volatiles (VOAs)	Ground Water	10/26/2011	12:05	HCl	
	H30Y3	Semivolatiles (SVOAs)	Ground Water	10/26/2011	12:05		
	H30Y3	Aroclors	Ground Water	10/26/2011	12:05		
	H30Y4	Volatiles (VOAs)	Ground Water	10/26/2011	15:05	HCl	
	H30Y4	Semivolatiles (SVOAs)	Ground Water	10/26/2011	15:05		
	H30Y4	Aroclors	Ground Water	10/26/2011	15:05		

Special Instructions: Results to jeff.miller@urscorp.com, amy.k.gray@urscorp.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Jen Patterson	10/27/11	FedEx	10/27/11	1400		FedEx	10-28-11	Daniel Miller	10-28-11	9:00

1075

6.5°C 9.0°C 9.5°C 10.0°C 9.5°C

SDG H3057

USEPA
DateShipped: 10/27/2011
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 41926
Contact Name: Jeff Miller
Contact Phone: 720-219-7891

No: 8-102711-105926-0003
Cooler #:
Lab: Spectrum Analytical
Lab Phone: 401-732-3400

Lab #	CLP Sample #	Analyses	Matrix	Collected	Sample Time	Preservative	MS/MSD
	H30Y5	Volatiles (VOAs)	Ground Water	10/26/2011	17:05	HCl	
	H30Y5	Semivolatiles (SVOAs)	Ground Water	10/26/2011	17:05		
	H30Y5	Aroclors	Ground Water	10/26/2011	17:05		
	H30Y6	Volatiles (VOAs)	Ground Water	10/26/2011	18:20	HCl	
	H30Y6	Semivolatiles (SVOAs)	Ground Water	10/26/2011	18:20		
	H30Y6	Aroclors	Ground Water	10/26/2011	18:20		
	H30Z6	Volatiles (VOAs)	Ground Water	10/25/2011	16:05	HCl	
	H30Z6	Semivolatiles (SVOAs)	Ground Water	10/25/2011	16:05		
	H30Z6	Aroclors	Ground Water	10/25/2011	16:05		

Special Instructions: Results to jeff.miller@urscorp.com, amy.k.gray@urscorp.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Jen Potman	10/27/11	FedEx	10/27/11	1400		FedEx	10-28-11	Daniel Mann	10-28-11	9:00

6.5°C 9.0°C 9.5°C 10.0°C 9.5°C

1076

SDG H3057

USEPA
DateShipped: 10/28/2011
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 41926
Contact Name: Jeff Miller
Contact Phone: 720-219-7891

No: 8-102811-114448-0006
Cooler #:
Lab: Spectrum Analytical
Lab Phone: 401-732-3400

Lab #	CLP Sample #	Analyses	Matrix	Collected	Sample Time	Preservative	MS/MSD
	H30Q5	Semivolatiles (SVOAs)/PCBs	Soil	10/27/2011	10:10		
	H30Q7	Semivolatiles (SVOAs)/PCBs	Soil	10/27/2011	11:10		
	H30R2	Semivolatiles (SVOAs)/PCBs	Soil	10/27/2011	14:10		
	H30R3	Semivolatiles (SVOAs)/PCBs	Soil	10/27/2011	13:50		
	H30R4	Semivolatiles (SVOAs)/PCBs	Soil	10/27/2011	17:45		
	H30R6	Semivolatiles (SVOAs)/PCBs	Soil	10/27/2011	15:40		
	H30R7	Semivolatiles (SVOAs)/PCBs	Soil	10/27/2011	16:00		
	H30R8	Semivolatiles (SVOAs)/PCBs	Soil	10/27/2011	17:20		
	H30X3	Semivolatiles (SVOAs)	Ground Water	10/27/2011	14:05		
	H30X3	Aroclors	Ground Water	10/27/2011	14:05		
	H30X4	Semivolatiles (SVOAs)	Ground Water	10/27/2011	17:25		
	H30X4	Aroclors	Ground Water	10/27/2011	17:25		
	H30Y7	Semivolatiles (SVOAs)	Ground Water	10/27/2011	10:23		
	H30Y7	Aroclors	Ground Water	10/27/2011	10:23		

SDG-Final Sample

Special Instructions: Results to jeff.miller@urs.com, amy.k.gray@urs.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	10/28/11	FedEx	10/28/11	1230		FedEx	10-29-11	[illegible]	10-29-11	8:45

COPY
Original Documents Are Included in CSF H30T6
Signed: AOA **Date:** 10/31/11

9.0°C

7201

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

WorkOrder: K2200

Client ID: EPAINV
Project: SOM Region VIII 21day TAT
WO Name: SOM Region VIII 21day TAT
Location: SOM_VIII_21,
Comments: N/A

Case: 41926
SDG: H30S7
PO: EP-W-11-033

HC Due: 11/17/11
Fax Due:
Fax Report: ☐

Report Level: CLP_REPORT
Special Program:
EDD: SOM_SEDD

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K2200-01A	H30S7	10/26/2011 10:30	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-02A	H30T9	10/24/2011 14:00	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-02B	H30T9	10/24/2011 14:00	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-02B	H30T9	10/24/2011 14:00	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-03A	H30W0	10/24/2011 15:25	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-03B	H30W0	10/24/2011 15:25	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-03B	H30W0	10/24/2011 15:25	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-04A	H30W1	10/24/2011 16:11	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-04B	H30W1	10/24/2011 16:11	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-04B	H30W1	10/24/2011 16:11	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-05A	H30W2	10/24/2011 15:22	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-05B	H30W2	10/24/2011 15:22	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-05B	H30W2	10/24/2011 15:22	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-06A	H30W3	10/24/2011 16:45	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-06B	H30W3	10/24/2011 16:45	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-06B	H30W3	10/24/2011 16:45	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-07A	H30W4	10/24/2011 17:30	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-07B	H30W4	10/24/2011 17:30	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-07B	H30W4	10/24/2011 17:30	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-08A	H30W5	10/24/2011 17:45	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					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 -- Rhode Island Division

WorkOrder: K2200

Client ID: EPAINV
Project: SOM Region VIII 21day TAT
WO Name: SOM Region VIII 21day TAT
Location: SOM_VIII_21,
Comments: N/A

Case: 41926
SDG: H30S7
PO: EP-W-11-033

HC Due: 11/17/11
Fax Due:
Fax Report: ☐

Report Level: CLP_REPORT
Special Program:
EDD: SOM_SEDD

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K2200-08B	H30W5	10/24/2011 17:45	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-08B	H30W5	10/24/2011 17:45	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-09A	H30W6	10/25/2011 10:15	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-09B	H30W6	10/25/2011 10:15	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-09B	H30W6	10/25/2011 10:15	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-10A	H30W7	10/25/2011 11:35	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-10B	H30W7	10/25/2011 11:35	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-10B	H30W7	10/25/2011 11:35	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-11A	H30W8	10/25/2011 12:40	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-11B	H30W8	10/25/2011 12:40	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-11B	H30W8	10/25/2011 12:40	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-12A	H30X0	10/26/2011 09:30	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-12B	H30X0	10/26/2011 09:30	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-12B	H30X0	10/26/2011 09:30	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-13A	H30X1	10/26/2011 10:30	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-13B	H30X1	10/26/2011 10:30	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-13B	H30X1	10/26/2011 10:30	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-14A	H30Y2	10/26/2011 10:55	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-14B	H30Y2	10/26/2011 10:55	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-14B	H30Y2	10/26/2011 10:55	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1

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: K2200

Client ID: EPAINV
Project: SOM Region VIII 21day TAT
WO Name: SOM Region VIII 21day TAT
Location: SOM_VIII_21.
Comments: N/A

Case: 41926
SDG: H30S7
PO: EP-W-11-033

HC Due: 11/17/11
Fax Due:
Fax Report: ☐

Report Level: CLP_REPORT
Special Program:
EDD: SOM_SEDD

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K2200-15A	H30Y3	10/26/2011 12:05	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-15B	H30Y3	10/26/2011 12:05	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-15B	H30Y3	10/26/2011 12:05	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-16A	H30Y4	10/26/2011 15:05	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-16B	H30Y4	10/26/2011 15:05	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-16B	H30Y4	10/26/2011 15:05	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-17A	H30Y5	10/26/2011 17:05	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-17B	H30Y5	10/26/2011 17:05	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-17B	H30Y5	10/26/2011 17:05	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-18A	H30Y6	10/26/2011 18:20	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-18B	H30Y6	10/26/2011 18:20	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-18B	H30Y6	10/26/2011 18:20	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-19A	H30Z6	10/25/2011 16:05	10/28/2011	Aqueous	SOM1.2_VOA_TRACE_W	/					VOA
K2200-19B	H30Z6	10/25/2011 16:05	10/28/2011	Aqueous	SOM01.2_ARO_W	/					I1
K2200-19B	H30Z6	10/25/2011 16:05	10/28/2011	Aqueous	SOM1.2_SVOA_LOW_W	/					I1
K2200-20A	H30X3	10/27/2011 14:05	10/29/2011	Aqueous	SOM01.2_ARO_W	/			Y		I2
K2200-20A	H30X3	10/27/2011 14:05	10/29/2011	Aqueous	SOM1.2_SVOA_LOW_W	/			Y		I2

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

HT = Test logged in but has been placed on hold

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories		Page 01 of 01
Received By (Print Name)	Shirley Ng	Log-in Date 10/28/2011
Received By (Signature)	Shirley Ng	
Case Number 41926	Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8768 2874 0622
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	6.5 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/28/2011
12. Time Received	09:00

Sample Transfer	
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area # VOA Lab	Area #
By DRM	By
On 10/28/11	On

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
H30S7	N/A	K2200-01	Good
H30T9	N/A	K2200-02	
H30W0	N/A	K2200-03	
H30W1	N/A	K2200-04	
H30W2	N/A	K2200-05	
H30W3	N/A	K2200-06	
H30W4	N/A	K2200-07	
H30W5	N/A	K2200-08	
H30W6	N/A	K2200-09	
H30W7	N/A	K2200-10	
H30W8	N/A	K2200-11	
H30X0	N/A	K2200-12	
H30X1	N/A	K2200-13	
H30Y2	N/A	K2200-14	
H30Y3	N/A	K2200-15	
H30Y4	N/A	K2200-16	
H30Y5	N/A	K2200-17	
H30Y6	N/A	K2200-18	
H30Z6	N/A	K2200-19	Good

* Contact SMO and attach record of resolution

Reviewed By Damian Mitkem	Logbook No.
Date 10-28-11	Logbook Page No.

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories		Page 01 of 01
Received By (Print Name)	Shirley Ng	Log-in Date 10/28/2011
Received By (Signature)	Shirley Ng	
Case Number 41926	Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8418 2969 6944
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	9.0 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/28/2011
12. Time Received	09:00

	Corresponding		Remarks: Condition of Sample Shipment, etc.
EPA Sample #	Sample Tag #	Assigned Lab #	
H30T9	N/A	K2200-02	1 amber rec'd broken
H30W0	N/A	K2200-03	Good
H30W1	N/A	K2200-04	Good

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area # R1
By	By DRM
On	On 10/28/11

* Contact SMO and attach record of resolution

Reviewed By Daniel Mckee	Logbook No.
Date 10-28-11	Logbook Page No.

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories		Page 01 of 01
Received By (Print Name)	Shirley Ng	Log-in Date 10/28/2011
Received By (Signature)	Shirley Ng	
Case Number 41926	Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8418 2969 6944
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	9.5 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/28/2011
12. Time Received	09:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
H30W1	N/A	K2200-04	Good
H30W2	N/A	K2200-05	2 amber rec'd broken
H30W3	N/A	K2200-06	Good
H30W4	N/A	K2200-07	Good

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area # /	Area # R1
By /	By DRM
On /	On 10/28/11

* Contact SMO and attach record of resolution

Reviewed By Daniel Meier	Logbook No.
Date 10-28-11	Logbook Page No. /

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories		Page 01 of 01
Received By (Print Name)	Shirley Ng	Log-in Date 10/28/2011
Received By (Signature)	Shirley Ng	
Case Number 41926	Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8418 2969 6944
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	8.5 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/28/2011
12. Time Received	09:00

Sample Transfer	
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area # /	Area # R1
By	By DRM
On	On 10/28/11

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
H30W4	N/A	K2200-07	Good
H30W5	N/A	K2200-08	Good
H30W6	N/A	K2200-09	Good

* Contact SMO and attach record of resolution

Reviewed By Daniel McCon	Logbook No. /
Date 10-28-11	Logbook Page No. /

WO: K2200 / CID:000 811 / CWID:001 349

SOM01.2 (4/2007) 1084

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories	Page 01 of 01
Received By (Print Name) Shirley Ng	Log-in Date 10/28/2011
Received By (Signature) Shirley Ng	
Case Number 41926 / Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8418 2969 6944
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	8.0 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/28/2011
12. Time Received	09:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
H30W6	N/A	K2200-09	Good
H30W7	N/A	K2200-10	Good
H30W8	N/A	K2200-11	Good

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area # /	Area # RI
By /	By DRU
On /	On 10/28/11

* Contact SMO and attach record of resolution

Reviewed By Daniel McCann	Logbook No.
Date 10-28-11	Logbook Page No. /

WO: K2200 / CID:000 810 / CWID:001 348

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories		Page 01 of 01
Received By (Print Name)	Shirley Ng	Log-in Date 10/28/2011
Received By (Signature)	Shirley Ng	
Case Number 41926	Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8418 2969 6944
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	9.0 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/28/2011
12. Time Received	09:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
H30W8	N/A	K2200-11	Good

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area # R1
By /	By DRM
On /	On 10/28/11

* Contact SMO and attach record of resolution

Reviewed By Danar Mitkem	Logbook No.
Date 10-28-11	Logbook Page No. /

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories		Page 01 of 01
Received By (Print Name)	Shirley Ng	Log-in Date 10/28/2011
Received By (Signature)	Shirley Ng	
Case Number 41926	Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8768 2874 0622
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	9.5 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/28/2011
12. Time Received	09:00

Sample Transfer	
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area # /	Area # R1
By	By DRM
On	On 10/28/11

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
H30X0	N/A	K2200-12	Good
H30X1	N/A	K2200-13	↓
H30Y2	N/A	K2200-14	↓
H30Y3	N/A	K2200-15	↓
H30Y4	N/A	K2200-16	↓
H30Y5	N/A	K2200-17	Good

* Contact SMO and attach record of resolution

Reviewed By Damien Mekem	Logbook No. /
Date 10-28-11	Logbook Page No. /

WO: K2200 / CID:000 805 / CWID:001 339

SOM01.2 (4/2007) 1087

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories		Page 01 of 01
Received By (Print Name)	Shirley Ng	Log-in Date 10/28/2011
Received By (Signature)	Shirley Ng	
Case Number 41926	Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8768 2874 0622
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	10.0 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/28/2011
12. Time Received	09:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
H30X0	N/A	K2200-12	Good
H30X1	N/A	K2200-13	↓
H30Y2	N/A	K2200-14	↓
H30Y3	N/A	K2200-15	↓
H30Y4	N/A	K2200-16	Good

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area # /	Area # R1
By /	By DRM
On /	On 10/28/11

* Contact SMO and attach record of resolution

Reviewed By	Daniel McKern	Logbook No.	/
Date	10-28-11	Logbook Page No.	/

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories		Page 01 of 01
Received By (Print Name)	Shirley Ng	Log-in Date 10/28/2011
Received By (Signature)	Shirley Ng	
Case Number 41926	Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8768 2875 0622
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	9.0 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/28/2011
12. Time Received	09:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
H30Y5	N/A	K2200-17	Good
H30Y6	N/A	K2200-18	1 amber rec'd broken
H30Z6	N/A	K2200-19	Good

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area # R1
By /	By DRM
On	On 10/28/11

* Contact SMO and attach record of resolution

Reviewed By Danie Mitkem	Logbook No.
Date 10-28-11	Logbook Page No. /

WO: K2200 / CID:000 804 / CWID:001 338

SAMPLE LOG-IN SHEET

FORM DC-1

Lab Name Mitkem Laboratories		Page 01 of 01
Received By (Print Name)	Shirley Ng	Log-in Date 10/31/2011
Received By (Signature)	Shirley Ng	
Case Number 41926	Sample Delivery Group No. H30S7	Mod. Ref. No. —

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

1. Custody Seal(s)	Present / Absent*
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent*
4. Airbill	AirBill / Sticker
	Present / Absent*
5. Airbill No.	FedEx 8768 2872 4020
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	9.0 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No*
11. Date Received at Laboratory	10/29/2011
12. Time Received	08:45

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
H30X3	N/A	K2200-20	Good

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area # R1
By	By SN
On	On 10/31/11

* Contact SMO and attach record of resolution

Reviewed By CS Tadey	Logbook No.
Date 10/31/11	Logbook Page No.

Subject: Region 08 | Case 41926 | Lab MITKEM | Issue Multiple | FINAL

From: Mroz, Ryan (rmroz@fedcsc.com)

To: agnes_ng@mitkem.com; dsmart@mitkem.com; mitkemlabs@yahoo.com;

Cc: Goodrich.Donald@epamail.epa.gov;

Date: Thursday, November 3, 2011 8:11 AM

Agnes,

Summary Start

-Discrepancies with tags, jars, and/or TR/COC-

Issue 1: The TR/COC lists the analysis as VOA, SVOA, and ARO for water samples; however, per Scheduling this Case requires TVOA, SVOA, and ARO analysis for water samples.

Resolution 1: In accordance with previous direction from Region 8, the laboratory will note the issue in the SDG Narrative, perform the analyses as indicated on the Scheduling Notification Form, and proceed with the analysis of the samples. The resolution will be applied to all TR/COCs received for this Case that list an incorrect analysis.

-Insufficient volume-

Issue 2: Per Scheduling, water samples require laboratory QC required for the TVOA, SVOA, and ARO fractions. However, the laboratory only received three VOA vials for TVOA analysis and four 1L amber bottles for SVOA/ARO analysis. This is insufficient sample volume for laboratory QC for all fractions. The SDGs affected are H30S7 and H30X4. SDG H30X4 contains two samples for SVOA and ARO only. The laboratory can perform the analysis and reduced volume laboratory QC for SVOA/ARO with no volume left if re-extraction is necessary.

Resolution 2: Per Region 8, the laboratory shall perform reduced volume laboratory QC for SVOA/ARO fractions and cancel TVOA laboratory QC for these SDGs. The lab shall note the issue in the SDG Narrative and proceed with analysis.

-Broken samples-

Issue 3: The laboratory received two of four 1L amber bottles broken for sample H30W2 and one of four 1L amber bottles broken for samples H30T9 (reported by CHEM and transhipped to MITKEM) and H30Y6. The laboratory has sufficient sample volume remaining for SVOA and ARO analysis but may have an issue if re-extraction is required.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples. If re-extraction/reanalysis is necessary, the laboratory will contact the SMO coordinator and wait for a resolution.

Summary End

Let me know if you have any additional questions.

Thanks.

Please note: To waive any defect(s) associated with this issue, please contact your PO.

Ryan Mroz

Environmental Coordinator - Regions 5 & 8

CSC

15000 Conference Center Drive Chantilly, VA 20151

Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

-----Original Message-----
From: Goodrich.Donald@epamail.epa.gov [mailto:Goodrich.Donald@epamail.epa.gov]
Sent: Wednesday, November 02, 2011 6:06 PM
To: Mroz, Ryan
Cc: Kent_Alexander@URSCorp.com
Subject: Re: Region 08 | Case 41926 | Lab MITKEM | Issue Multiple

Ryan, for issue 2, perform QC at reduced volume on fractions with sufficient volume and cancel QC for fractions where QC performed at a reduced volume is not an option.

Thanks,
Don

Don Goodrich
EPA Region 8 Environmental Scientist
Ecosystem Protection and Remediation, Program Support
office: 303-312-6687
cell: 303-905-4024

From: Mroz, Ryan
Sent: Wednesday, November 02, 2011 1:34 PM
To: 'Donald Goodrich'
Cc: Kent_Alexander@URSCorp.com
Subject: Region 08 | Case 41926 | Lab MITKEM | Issue Multiple

Don,

MITKEM is reporting the following Issues with Case 41926. Issues 1 and 3 can be resolved with a standard answer. Please advise the laboratory how to proceed for TVOA, and SVOA/ARO analysis in Issue 2.

-Discrepancies with tags, jars, and/or TR/COC-

Issue 1: The TR/COC lists the analysis as VOA, SVOA, and ARO for water samples; however, per Scheduling this Case requires TVOA, SVOA, and ARO analysis for water samples.

Resolution 1: In accordance with previous direction from Region 8, the laboratory will note the issue in the SDG Narrative, perform the analyses as indicated on the Scheduling Notification Form, and proceed with the analysis of the samples. The resolution will be applied to all TR/COCs received for this Case that list an incorrect analysis.

-Insufficient volume-

Issue 2: Per Scheduling, water samples require laboratory QC required for the TVOA, SVOA, and ARO fractions. However, the laboratory only received three VOA vials for TVOA analysis and four 1L amber bottles for SVOA/ARO analysis. This is insufficient sample volume for laboratory QC for all fractions. The SDGs affected are H30S7 and H30X4. SDG H30X4 contains two samples for SVOA and ARO only. The laboratory can perform the analysis and reduced volume laboratory QC for SVOA/ARO with no volume left if re-extraction is necessary.

-Broken samples-

Issue 3: The laboratory received two of four 1L amber bottles broken for sample H30W2 and one of four 1L amber bottles broken for samples H30T9 (reported by CHEM and transhipped to MITKEM) and H30Y6. The laboratory has sufficient sample volume remaining for SVOA and ARO analysis but may have an issue if re-extraction is required.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples. If re-extraction/reanalysis is necessary, the laboratory will contact the SMO coordinator and wait for a resolution.

Let me know if you have any questions.

Thanks,

Ryan Mroz

Environmental Coordinator - Regions 5 & 8

CSC

15000 Conference Center Drive Chantilly, VA 20151

Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: Agnes Huntley [Warwick] [mailto:agnes_ng@mitkem.com]
Sent: Wednesday, November 02, 2011 12:24 PM
To: Mroz, Ryan
Subject: RE: Case 41926

Hi Ryan,

It is an option, however, there will be no remaining sample volume for re-extraction if re-extraction is required.

Agnes (Ng) Huntley

CLP Project Manager

Mitkem Laboratories

A Division of Spectrum Analytical, Featuring Hanibal Technology

(P) 401-732-3400 x316

(F) 401-732-3499

****

This messge is intended for the use of the individual to whom it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee responsible for delivering the message to the intended recipient, you are hereby notified tha any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us imediately by telephone at 401-732-3400

From: Mroz, Ryan [mailto:rmroz@fedcsc.com]
Sent: Wed 11/2/2011 12:15 PM
To: Agnes Huntley [Warwick]
Subject: RE: Case 41926

Agnes,

Is reduced volume an option for SVOA/ARO QC (with no volume remaining after the QC is performed)?

Thanks,

Ryan Mroz

Environmental Coordinator - Regions 5 & 8

CSC

15000 Conference Center Drive Chantilly, VA 20151

Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: Agnes Huntley [Warwick] [mailto:agnes_ng@mitkem.com]
Sent: Wednesday, November 02, 2011 12:06 PM
To: Mroz, Ryan
Subject: Case 41926

Hi Ryan,

The TR/COC lists VOA, SVOA and ARO as the analyses. This case was scheduled for TVOA, SVOA and ARO.

Scheduling notes that lab QC is required for TVOA, SVOA and ARO. The laboratory only received three VOA vials for TVOA and four 1L amber bottles for SVOA and ARO. This is insufficient sample volume for laboratory QC for all fractions. How is the laboratory to proceed? This affects SDGs H30S7 and H30X4. SDG H30X4 contains two samples for SVOA and ARO only.

The laboratory received two of four 1L amber bottles broken for sample H30W2. The laboratory has sufficient sample volume remaining for SVOA and ARO analyses. The laboratory does not have any remaining sample volume for re-extraction if re-extraction is required.

The laboratory received one of four 1L amber bottles broken for samples H30T9 (reported by ChemTech and transhipped to Spectrum) and H30Y6. The laboratory has sufficient sample volume for SVOA and ARO analyses. There will be an issue with sample volume if both fractions require re-extraction.

Thank you,

Agnes

Agnes (Ng) Huntley

CLP Project Manager

Mitkem Laboratories

A Division of Spectrum Analytical, Featuring Hanibal Technology

(P) 401-732-3400 x316

(F) 401-732-3499

****

This messge is intended for the use of the individual to whom it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee responsible for delivering the message to the intended recipient, you are hereby notified tha any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us imediately by telephone at 401-732-3400

Agnes Huntley [Warwick]

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Friday, October 28, 2011 9:22 AM
To: Agnes Huntley [Warwick]; Dawne Smart [Warwick]
Cc: Goodrich.Donald@epamail.epa.gov
Subject: Region 08 | Case 41926 | Lab MITKEM | Issue Samples shipped to the incorrect laboratory | FINAL

Agnes,

Summary Start
Issue 1: The laboratory scheduled to receive the organic samples, received inorganic samples.
Resolution 2: Per Region 8, the laboratory shall transship the samples using the information below.

FedEx: 1942-5093-2
Internal Billing Reference: 36549158.00000

To: **Chemtech Consulting Group - CHEM**
284 Sheffield Street
Mountainside, NJ 07092
Phone Number: 908-789-8900
Laboratory Contact: Divya Mehta
908-789-8900 (ext 3150)
epa@chemtech.net
Sample Custodian: Snehal Mehta
908-789-8900 (ext 3158)
epa@chemtech.net

Issue 2: The laboratory received 1 out of 4 amber bottles for sample H3T09 was received broken. This sample was received broken at the incorrect laboratory; where samples were subsequently transshipped to MITKEM.
Resolution 2: In accordance with previous direction from Region 8, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples. If re-extraction/reanalysis is necessary, the laboratory will contact the SMO coordinator and wait for a resolution.
Summary End

SMO will note samples were transshipped to CHEM on 10/27 under airbills 795344724996 and 795344725054. In addition, samples were transshipped to MITKEM laboratory on 10/27 under airbill 841829696944. .

Let me know if you have any additional questions.
Thanks,
Please note: To waive any defect(s) associated with this issue, please contact your PO.

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: Agnes Huntley [Warwick] [mailto:agnes_ng@mitkem.com]
Sent: Friday, October 28, 2011 8:10 AM
To: Mroz, Ryan
Subject: RE: Region 08 | Case 41926 | Lab MITKEM | Issue Samples shipped to the incorrect laboratory

Hi Ryan,

There are the tracking numbers.
795344724996
795344725054

Agnes Huntley
CLP Project Manager
Spectrum Analytical, featuring Hanibal Technology
Rhode Island Division
Formerly Mitkem Laboratories
(P) 401-732-3400
(F) 401-732-3499

From: Snehal Mehta [mailto:Snehal@chemtech.net]
Sent: Thursday, October 27, 2011 6:28 PM
To: Mroz, Ryan
Subject: RE: Region 08 | Case 41926 | Lab CHEM | Issue Samples shipped to the incorrect laboratory

Ryan,

'CHEM' shipped these samples using Fed Ex Air Bill# 841829696944

Please note that for 'H30T9' 1 of 4 Amber was received broken

Regards,

Snehal Mehta

Tel. 908 728 3158
Fax: 908-789-8514

From: Mroz, Ryan [mailto:rmroz@fedcsc.com]
Sent: Thursday, October 27, 2011 1:07 PM
To: Agnes Huntley [Warwick]; Dawne Smart [Warwick]
Subject: Region 08 | Case 41926 | Lab MITKEM | Issue Samples shipped to the incorrect laboratory

Agnes,

Please see the Resolution below. Please let me know the airbill number when you have transshipped the samples and I will send a FINAL ROC.

Issue: The laboratory scheduled to receive the organic samples, received inorganic samples.
Resolution: Per Region 8, the laboratory shall transship the samples using the information below.

FedEx: 1942-5093-2

Internal Billing Reference: 36549158.00000

To: **Chemtech Consulting Group - CHEM**
284 Sheffield Street
Mountainside, NJ 07092
Phone Number: 908-789-8900
Laboratory Contact: Divya Mehta
908-789-8900 (ext 3150)
epa@chemtech.net
Sample Custodian: Snehal Mehta
908-789-8900 (ext 3158)
epa@chemtech.net

Let me know if you have any questions.
Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

-----Original Message-----
From: Goodrich.Donald@epamail.epa.gov [mailto:Goodrich.Donald@epamail.epa.gov]
Sent: Thursday, October 27, 2011 12:38 PM
To: Mroz, Ryan
Subject: RE: Region 08 | Case 41926 | Lab MITKEM | Issue Samples shipped to the incorrect laboratory

please do so.

Don Goodrich
EPA Region 8 Environmental Scientist
Ecosystem Protection and Remediation, Program Support
office: 303-312-6687
cell: 303-905-4024

From: Mroz, Ryan
Sent: Thursday, October 27, 2011 12:33 PM
To: 'Goodrich.Donald@epamail.epa.gov'
Subject: RE: Region 08 | Case 41926 | Lab MITKEM | Issue Samples shipped to the incorrect laboratory

Don,

Please advise if I may pass on the PROPOSED Resolution to the laboratory.

Issue: The laboratory scheduled to receive the organic samples, received inorganic samples.
PROPOSED Resolution: Per Region 8, the laboratory shall transship the samples using the information below.

FedEx: 1942-5093-2
Internal Billing Reference: 36549158.00000

To: **Chemtech Consulting Group - CHEM**
284 Sheffield Street
Mountainside, NJ 07092
Phone Number: 908-789-8900
Laboratory Contact: Divya Mehta
908-789-8900 (ext 3150)
epa@chemtech.net
Sample Custodian: Snehal Mehta
908-789-8900 (ext 3158)
epa@chemtech.net

Let me know if you have any questions.
Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: Patureau, Jenifer [mailto:jenifer.patureau@urs.com]
Sent: Thursday, October 27, 2011 12:13 PM
To: Mroz, Ryan
Cc: goodrich.donald@epa.gov; Alexander, Kent
Subject: RE: Region 08 | Case 41926 | Lab MITKEM | Issue Samples shipped to the incorrect laboratory

Hi Ryan,
Our FedEx account number is 1942-5093-2, and the internal billing reference for shipment is 36549158.00000. The inorganic lab will also receive the organic samples today, as this was a mistake on my part filling out the airbills and COCs. The COCs inside the coolers will therefore list the incorrect lab. I can correct them and resubmit via SMO if that will help. I apologize for this mix-up, and the project will pay for reshipment.

Thank you, and please let me know if any further action is needed.
Jen

Jenifer Patureau
Chemist
URS Operating Services
1099 18th St, ste 710
Denver, CO 80202
Office: 303-291-8204
Cell: 720-810-0792

From: Mroz, Ryan
Sent: Thursday, October 27, 2011 10:45 AM
To: 'Kent_Alexander@URSCorp.com'; 'Patureau, Jenifer'
Cc: 'Goodrich.Donald@epamail.epa.gov'
Subject: Region 08 | Case 41926 | Lab MITKEM | Issue Samples shipped to the incorrect laboratory

Kent/Jennifer,

MITKEM is reporting the following Issue with Case 41926. Please provide an the FedEx number to have the samples transshipped if you would like these samples analyzed. I am checking with the inorganic lab to see if they received the organic samples.

Issue: The laboratory scheduled to receive the organic samples, received inorganic samples.

Let me know if you have any questions.
Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: Agnes Huntley [Warwick] [mailto:agnes_ng@mitkem.com]
Sent: Thursday, October 27, 2011 10:39 AM
To: Mroz, Ryan
Subject: RE: Case 41926

Hi Ryan,

No...just inorganic samples.

Agnes Huntley
CLP Project Manager
Spectrum Analytical, featuring Hanibal Technology
Rhode Island Division
Formerly Mitkem Laboratories
(P) 401-732-3400
(F) 401-732-3499

From: Mroz, Ryan [mailto:rmroz@fedcsc.com]
Sent: Thursday, October 27, 2011 10:39 AM
To: Agnes Huntley [Warwick]
Subject: RE: Case 41926

Agnes,

Did you get the organic samples as well?
Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: Agnes Huntley [Warwick] [mailto:agnes_ng@mitkem.com]
Sent: Thursday, October 27, 2011 9:24 AM
To: Mroz, Ryan
Subject: Case 41926

Hi Ryan,

I have attached the TR/COC.

We were scheduled for organics for this case, however, we received inorganic samples. Please let us know where we should send these samples.

Thank you,
Agnes

Agnes Huntley
CLP Project Manager
Spectrum Analytical, featuring Hanibal Technology
Rhode Island Division
Formerly Mitkem Laboratories
(P) 401-732-3400
(F) 401-732-3499
****
Due to rising cost of rush shipments, Spectrum Analytical requests that you allow sufficient time for all sample bottle order requests, 3 days notice at a minimum. If you need an expedited bottle order request Spectrum Analytical will provide the bottles but will request that you pay for the shipping. Spectrum Analytical will continue to pay for all shipping previously agreed to, given proper notification. Thank you for your understanding and cooperation

This message is intended for the use of the individual to whom it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message in not the intended recipient, or the employee responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone at 401-732-3400.