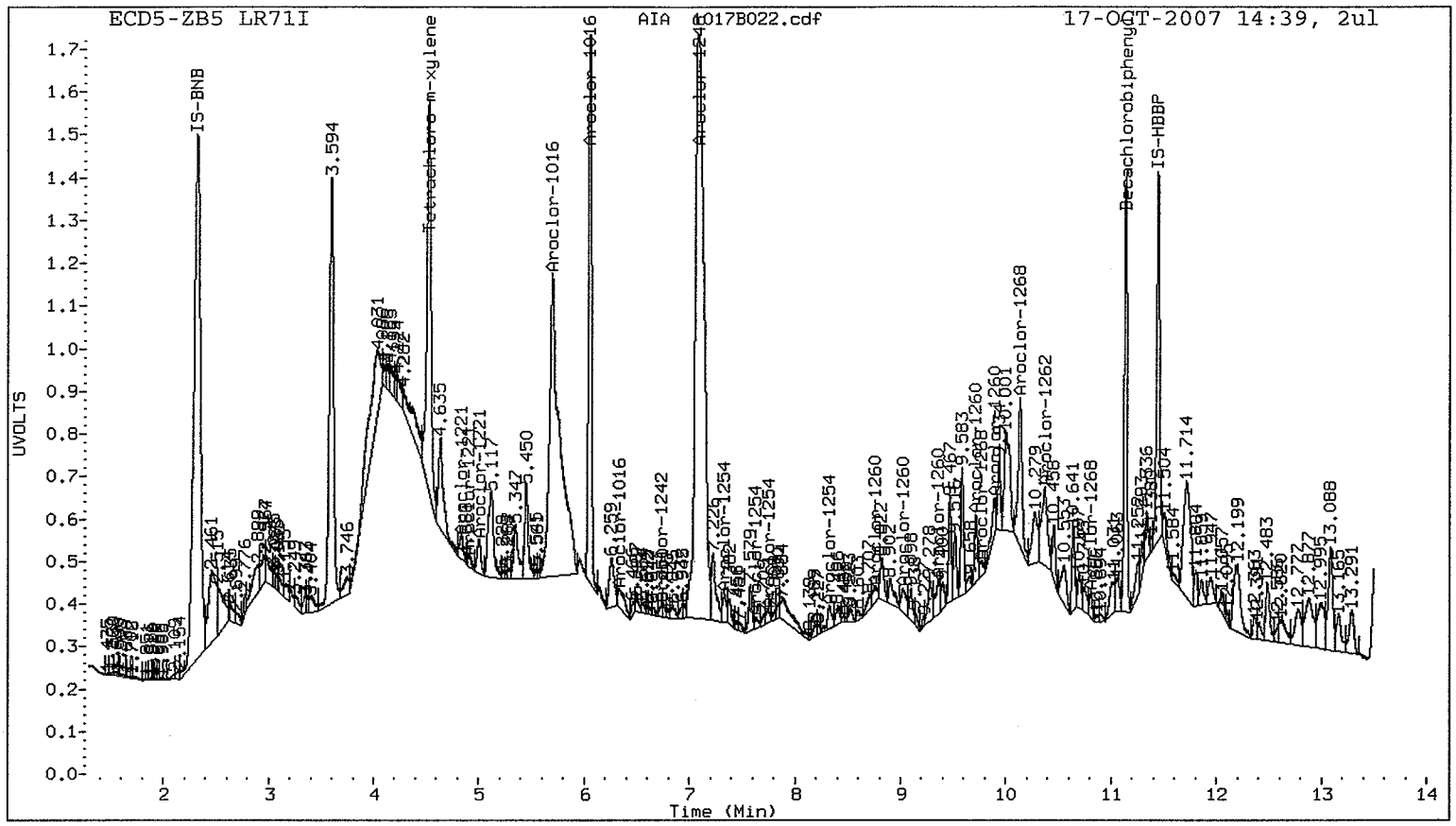
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IS-BNB
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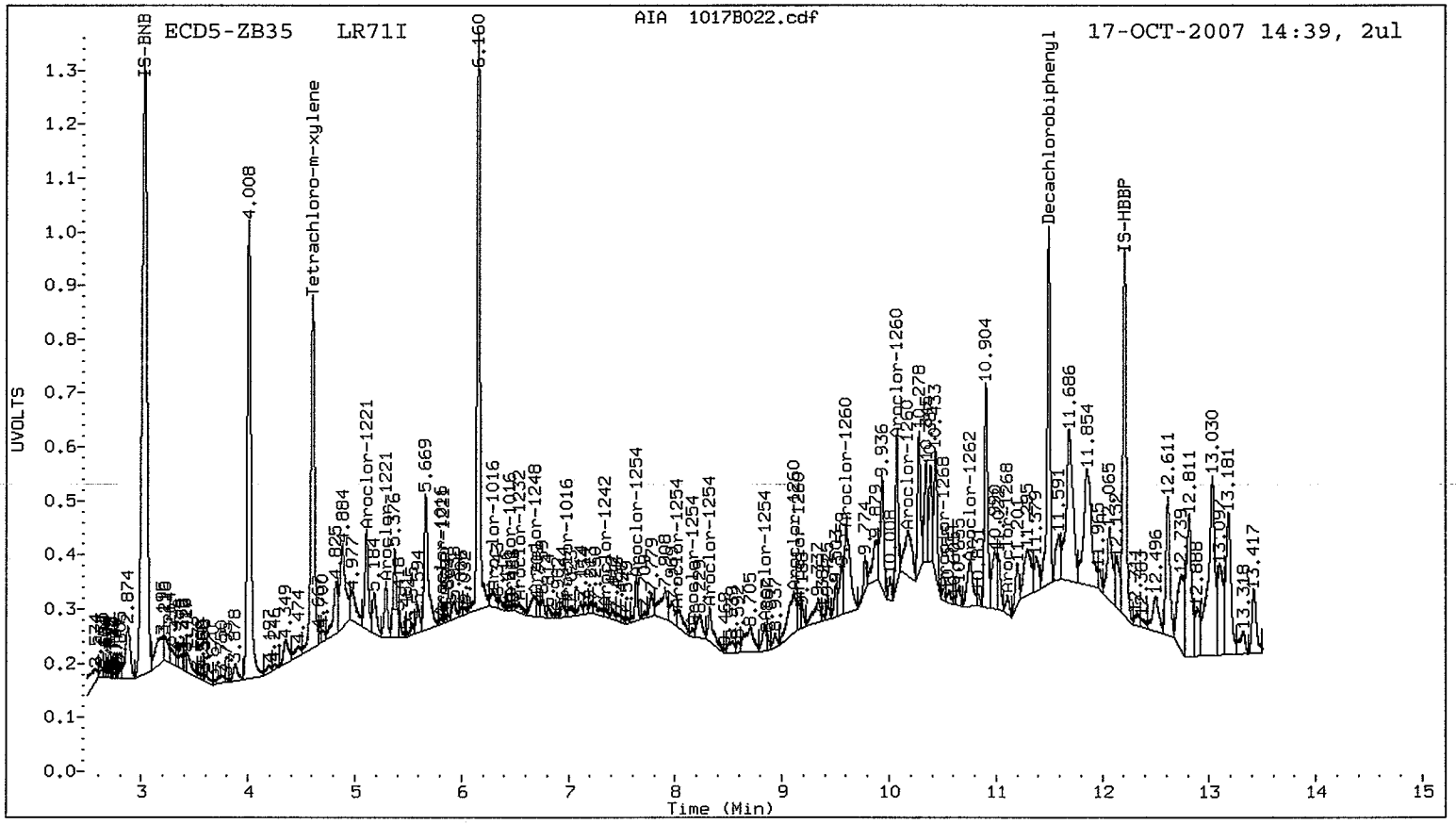
Tetrachloro-m-xylene
4.635
Aroclor-1016
Aroclor-1016
Aroclor-1242
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1260
Aroclor-1260
Aroclor-1260
Aroclor-1262
Aroclor-1268
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
11.714
UVOLTS
Time (Min)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Tetrachloro-m-xylene
6.160
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Aroclor-1221
Aroclor-1016
Aroclor-1016
Aroclor-1248
Aroclor-1016
Aroclor-1242
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1260
Aroclor-1260
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
10.904
11.686
11.854
12.611
12.811
13.030
13.181
13.417
UVOLTS
Time (Min)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: AN-SS-06
SAMPLE

Lab Sample ID: LR71J
LIMS ID: 07-20775
Matrix: Sediment
Data Release Authorized:
Reported: 10/19/07

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes

Date Sampled: 09/28/07
Date Received: 09/29/07

Date Extracted: 10/11/07
Date Analyzed: 10/17/07 14:56
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 22.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	**Aroclor 1254**	**3.9**	**46 E**
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.2%
Tetrachlorometaxylene	76.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20071016.b/1017-1.b/1017B023.d
Data file 2: 20071016.b/1017-2.b/1017B023.d
Method: /chem2/ecd5.i/20071016.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: LR71J
Client ID: AN-SS-06
Injection Date: 17-OCT-2007 14:56
Report Date: 10/18/2007 09:49
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.522	-0.001	10913588	4.606	0.001	7667623	30.5	30.3	0.4	Tetrachloro-m-xylene MN
11.135	0.000	9974127	11.497	0.000	6155663	36.5	31.9	13.3	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	76.2	75.8
Decachlorobiphenyl	91.3	79.9

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31569414	27335710	-13.4
Hexabromobiphenyl	9983366	8603163	-13.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20324893	19224243	-5.4
Hexabromobiphenyl	6610345	8023706	21.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 16-OCT-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	5.692	-0.003	1293378	149.9	1	5.822	-0.003	412753	43.4
Aroclor-1016	2	5.987	-0.004	1747718	67.0	2	6.294	0.001	905508	45.1
Aroclor-1016	3	6.103	0.000	801608	70.1	3	6.452	-0.001	178210	22.2
Aroclor-1016	4	6.356	-0.001	5998892	855.0	4	6.991	0.001	1928668	306.1
Total Col1Ave (4 peaks):					285.5	Total Col2Ave (4 peaks):				104.2 RPD = 93*
Corrected Ave (3 peaks):					95.7	Corrected Ave (3 peaks):				36.9 RPD = 89*
Aroclor-1221	1	4.762	-0.021	192544	51.1	1	5.025	-0.041	142965	45.7
Aroclor-1221	2	4.913	0.004	336783	134.1	2	5.205	-0.036	145309	80.6
Aroclor-1221	3	4.992	0.006	404006	47.7	3	5.292	-0.030	1576250	286.8
Aroclor-1221	NS	---			----	4	5.822	-0.015	412753	185.7
Total Col1Ave (3 peaks):					77.6	Total Col2Ave (4 peaks):				149.7 RPD = 63*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				104.0
Aroclor-1232	1	4.992	0.008	404006	56.8	1	5.292	-0.031	1576250	337.9
Aroclor-1232	2	5.692	-0.004	1293378	333.5	2	5.822	-0.004	412753	88.1
Aroclor-1232	3	5.987	-0.004	1747718	151.3	3	6.294	0.000	905508	102.2
Aroclor-1232	4	6.103	-0.002	801608	152.8	4	6.589	-0.001	253741	114.4
Total Col1Ave (4 peaks):					173.6	Total Col2Ave (4 peaks):				160.7 RPD = 8
Corrected Ave (3 peaks):					120.3	Corrected Ave (3 peaks):				101.6 RPD = 17
Aroclor-1242	1	5.692	-0.004	1293378	186.0	1	5.292	-0.030	1576250	407.0
Aroclor-1242	2	5.987	-0.005	1747718	83.7	2	5.822	-0.003	412753	54.5
Aroclor-1242	3	6.103	-0.001	801608	86.8	3	6.294	0.001	905508	57.3
Aroclor-1242	4	6.731	-0.004	1323678	149.7	4	6.452	-0.001	178210	28.2
Aroclor-1242	NS	---			----	5	7.349	0.000	3162329	522.8
Total Col1Ave (4 peaks):					126.6	Total Col2Ave (5 peaks):				214.0 RPD = 51*
Corrected Ave (4 peaks):					126.6	Corrected Ave (3 peaks):				46.7 RPD = 92*
Aroclor-1248	1	5.987	-0.005	1747718	114.7	1	6.294	0.003	905508	76.4
Aroclor-1248	2	6.103	-0.003	801608	138.2	2	6.656	0.000	3084262	469.6
Aroclor-1248	3	6.356	-0.001	5998892	663.5	3	6.991	0.001	1928668	250.2
Aroclor-1248	4	6.731	-0.005	1323678	99.4	4	7.349	0.000	3162329	296.2
Aroclor-1248	5	7.075	0.001	13260319	752.2	NS	---			----
Total Col1Ave (5 peaks):					353.6	Total Col2Ave (4 peaks):				273.1 RPD = 26
Corrected Ave (3 peaks):					117.4	Corrected Ave (3 peaks):				207.6 RPD = 55*
Aroclor-1254	1	7.321	-0.002	19760221	1014.8	1	7.597	-0.001	12148678	1108.9
Aroclor-1254	2	7.628	-0.003	12343752	1029.6	2	8.034	-0.002	8427840	1009.7
Aroclor-1254	3	7.740	-0.005	25209850	1058.4	3	8.160	-0.002	21019777	1169.2
Aroclor-1254	4	8.024	-0.008	30627743	1194.6	4	8.359	-0.005	22840191	1258.7
Aroclor-1254	5	8.330	-0.006	17957161	1192.1	5	8.815	-0.002	13382620	1310.5
Total Col1Ave (5 peaks):					1097.9	Total Col2Ave (5 peaks):				1171.4 RPD = 6
Corrected Ave (5 peaks):					1097.9	Corrected Ave (5 peaks):				1171.4 RPD = 6
Aroclor-1260	1	8.778	-0.002	3510531	227.7	1	9.071	-0.001	1976329	160.0
Aroclor-1260	2	9.046	-0.002	3622196	277.5	2	9.139	-0.001	3459063	494.7
Aroclor-1260	3	9.345	-0.003	11507778	334.8	3	9.665	0.001	7147247	242.5
Aroclor-1260	4	9.686	-0.004	6067859	381.4	4	10.103	-0.001	1689871	212.1
Aroclor-1260	5	9.838	-0.002	2008450	203.9	5	10.154	0.000	5156261	280.8
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (5 peaks):				278.0 RPD = 2
Corrected Ave (5 peaks):					285.1	Corrected Ave (4 peaks):				223.9 RPD = 24
Aroclor-1262	1	9.046	-0.003	3622196	206.4	1	9.071	-0.003	1976329	98.1
Aroclor-1262	2	9.345	-0.005	11507778	260.2	2	9.665	-0.001	7147247	191.6
Aroclor-1262	3	9.686	-0.004	6067859	449.0	3	10.103	0.000	1689871	107.5
Aroclor-1262	4	9.838	-0.003	2008450	103.5	4	10.154	-0.004	5156261	212.7
Aroclor-1262	5	10.381	-0.004	2659827	180.8	5	10.743	-0.003	1590086	133.6
Total Col1Ave (5 peaks):					240.0	Total Col2Ave (5 peaks):				148.7 RPD = 47*
Corrected Ave (4 peaks):					187.7	Corrected Ave (5 peaks):				148.7 RPD = 23
Aroclor-1268	1	9.777	-0.001	1615053	33.1	1	10.103	0.002	1689871	45.4
Aroclor-1268	2	9.838	0.000	2008450	43.2	2	10.154	-0.005	5156261	145.8
Aroclor-1268	3	10.179	0.018	931324	23.7	3	10.494	0.001	319888	11.5

Aroclor-1268	4	10.806	0.006	1342721	12.8	4	11.153	0.002	468975	5.8

Total Col1Ave (4 peaks): 28.2 Total Col2Ave (4 peaks): 52.1 RPD = 60*

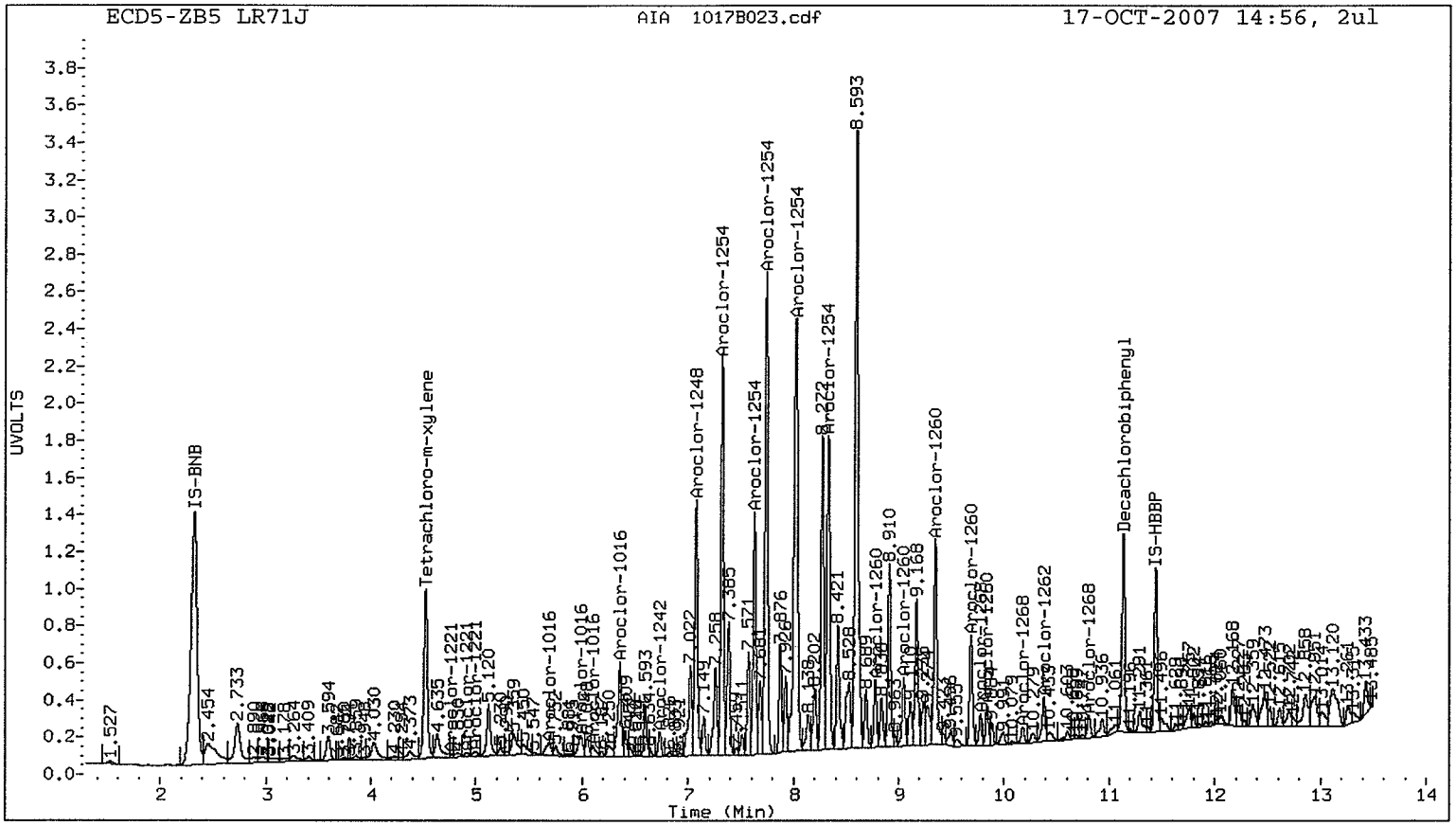
Corrected Ave (4 peaks): 28.2 Corrected Ave (3 peaks): 20.9 RPD = 30

Total PCB Area Col1 (4.623 - 11.035) = 329985606 Col1 Total PCB = 1.6 ppm*

Total PCB Area Col2 (4.705 - 11.396) = 227015832 Col2 Total PCB = 1.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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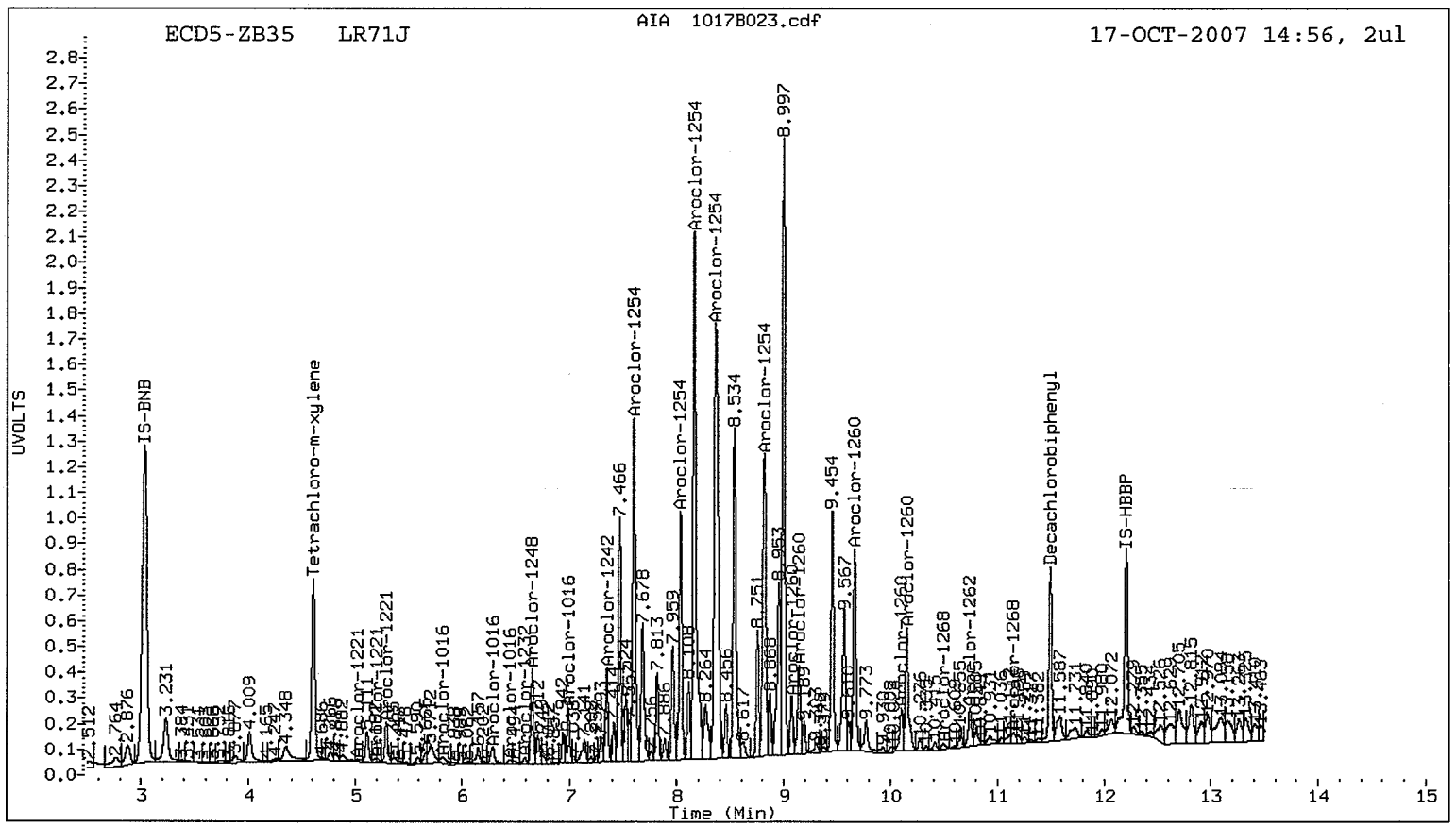
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1221
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
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Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: AN-SS-06
DILUTION

Lab Sample ID: LR71J
LIMS ID: 07-20775
Matrix: Sediment
Data Release Authorized:
Reported: 10/19/07

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes

Date Sampled: 09/28/07
Date Received: 09/29/07

Date Extracted: 10/11/07
Date Analyzed: 10/17/07 18:22
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Silica Gel: No

Percent Moisture: 22.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	12	< 12 U
53469-21-9	Aroclor 1242	12	< 12 U
12672-29-6	Aroclor 1248	12	< 12 U
11097-69-1	**Aroclor 1254**	**12**	**45**
11096-82-5	Aroclor 1260	12	< 12 U
11104-28-2	Aroclor 1221	12	< 12 U
11141-16-5	Aroclor 1232	12	< 12 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.2%
Tetrachlorometaxylene	88.5%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20071016.b/1017-1.b/1017B035.d
Data file 2: 20071016.b/1017-2.b/1017B035.d
Method: /chem2/ecd5.i/20071016.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: LR71J
Client ID: AN-SS-06
Injection Date: 17-OCT-2007 18:22
Report Date: 10/18/2007 09:43
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.522	-0.001	4224205	4.605	0.000	3183085	11.0	11.8	7.6	Tetrachloro-m-xylene M
11.133	-0.002	3453966	11.495	-0.001	1854090	12.1	12.7	5.1	DecachlorobiphenylN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	82.1	88.6
Decachlorobiphenyl	90.8	95.6

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31569414	29440958	-6.7
Hexabromobiphenyl	9983366	8981736	-10.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20324893	20496114	0.8
Hexabromobiphenyl	6610345	6059703	-8.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 16-OCT-2007
<- Indicates standard response outside Limits (-50 to +100%)

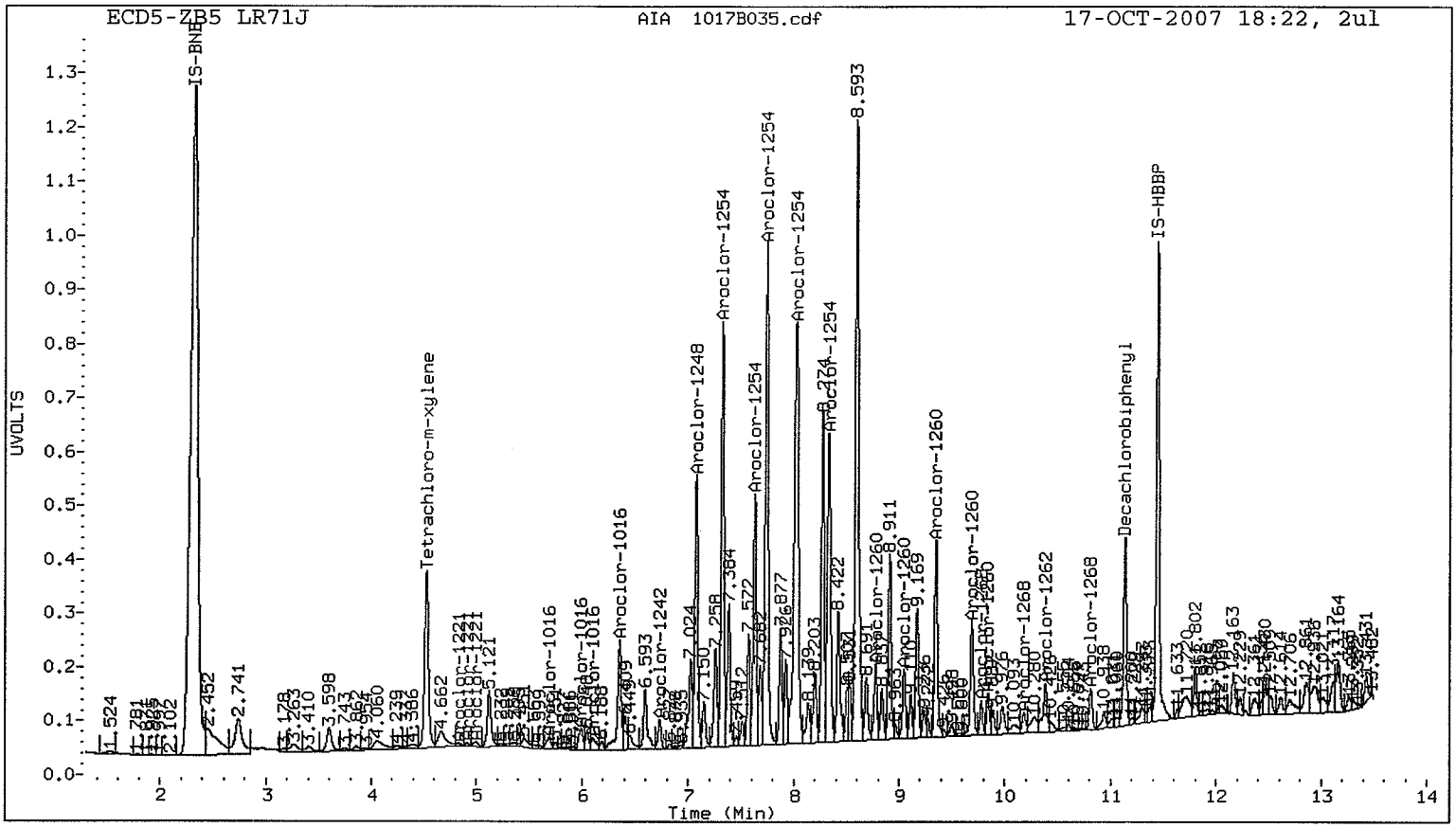
Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	5.692	-0.004	342838	36.9	1	5.824	0.000	264416	26.1
Aroclor-1016	2	5.993	0.002	551157	19.6	2	6.293	0.000	341148	15.9
Aroclor-1016	3	6.102	0.000	373193	30.3	3	6.453	0.000	70000	8.2
Aroclor-1016	4	6.356	-0.001	2529051	334.7	4	6.991	0.001	822201	122.4
	Total Col1Ave (4 peaks):				105.4		Total Col2Ave (4 peaks):			43.1 RPD = 84*
	Corrected Ave (3 peaks):				28.9		Corrected Ave (3 peaks):			16.7 RPD = 53*
Aroclor-1221	1	4.827	0.044	117640	29.0	1	5.032	-0.034	120532	36.1
Aroclor-1221	2	4.914	0.005	92357	34.2	2	5.293	0.053	669607	348.4
Aroclor-1221	3	4.994	0.008	145919	16.0	3	---			0.0
Aroclor-1221	NS	---			----	4	5.824	-0.012	264416	111.6
	Total Col1Ave (3 peaks):				26.4		Total Col2Ave (3 peaks):			165.4 RPD = 145*
	Corrected Ave (3 peaks):				26.4		Corrected Ave: < 3 Peaks			
Aroclor-1232	1	4.994	0.011	145919	19.0	1	5.293	-0.030	669607	134.6
Aroclor-1232	2	5.692	-0.004	342838	82.1	2	5.824	-0.001	264416	53.0
Aroclor-1232	3	5.993	0.002	551157	44.3	3	6.293	-0.001	341148	36.1
Aroclor-1232	4	6.102	-0.002	373193	66.1	4	6.588	-0.001	104065	44.0
	Total Col1Ave (4 peaks):				52.9		Total Col2Ave (4 peaks):			66.9 RPD = 23
	Corrected Ave (4 peaks):				52.9		Corrected Ave (3 peaks):			44.4 RPD = 18
Aroclor-1242	1	5.692	-0.004	342838	45.8	1	5.293	-0.030	669607	162.2
Aroclor-1242	2	5.993	0.001	551157	24.5	2	5.824	0.000	264416	32.7
Aroclor-1242	3	6.102	-0.002	373193	37.5	3	6.293	0.000	341148	20.3
Aroclor-1242	4	6.732	-0.004	574086	60.3	4	6.453	0.000	70000	10.4
Aroclor-1242	NS	---			----	5	7.349	0.000	1209796	187.6
	Total Col1Ave (4 peaks):				42.0		Total Col2Ave (5 peaks):			82.6 RPD = 65*
	Corrected Ave (4 peaks):				42.0		Corrected Ave (3 peaks):			21.1 RPD = 66*
Aroclor-1248	1	5.993	0.001	551157	33.6	1	6.293	0.002	341148	27.0
Aroclor-1248	2	6.102	-0.003	373193	59.8	2	6.655	0.000	1202318	171.7
Aroclor-1248	3	6.356	-0.002	2529051	259.7	3	6.991	0.001	822201	100.0
Aroclor-1248	4	6.732	-0.004	574086	40.0	4	7.349	0.000	1209796	106.3
Aroclor-1248	5	7.075	0.001	4983042	262.4	NS	---			----
	Total Col1Ave (5 peaks):				131.1		Total Col2Ave (4 peaks):			101.3 RPD = 26
	Corrected Ave (3 peaks):				44.5		Corrected Ave (4 peaks):			101.3 RPD = 78*
Aroclor-1254	1	7.321	-0.001	7514753	358.3	1	7.597	0.000	4290392	367.3
Aroclor-1254	2	7.630	-0.002	4644679	359.7	2	8.034	-0.002	3038122	341.4
Aroclor-1254	3	7.741	-0.004	9500139	370.3	3	8.160	-0.002	7332209	382.5
Aroclor-1254	4	8.024	-0.008	11473910	415.5	4	8.362	-0.002	7989299	412.9
Aroclor-1254	5	8.331	-0.005	6598590	406.7	5	8.814	-0.003	4447168	408.5
	Total Col1Ave (5 peaks):				382.1		Total Col2Ave (5 peaks):			382.5 RPD = 0
	Corrected Ave (5 peaks):				382.1		Corrected Ave (5 peaks):			382.5 RPD = 0
Aroclor-1260	1	8.779	-0.001	1451873	90.2	1	9.071	-0.002	800642	85.8
Aroclor-1260	2	9.047	-0.001	1339992	98.3	2	9.141	0.001	1106087	209.5
Aroclor-1260	3	9.348	-0.001	3611017	100.6	3	9.665	0.001	2389061	107.3
Aroclor-1260	4	9.688	-0.002	2304731	138.8	4	10.104	0.001	600260	99.8
Aroclor-1260	5	9.839	-0.001	741524	72.1	5	10.152	-0.002	1874167	135.1
	Total Col1Ave (5 peaks):				100.0		Total Col2Ave (5 peaks):			127.5 RPD = 24
	Corrected Ave (5 peaks):				100.0		Corrected Ave (5 peaks):			127.5 RPD = 24
Aroclor-1262	1	9.047	-0.003	1339992	73.1	1	9.071	-0.003	800642	52.6
Aroclor-1262	2	9.348	-0.003	3611017	78.2	2	9.665	-0.001	2389061	84.8
Aroclor-1262	3	9.688	-0.003	2304731	163.4	3	10.104	0.002	600260	50.5
Aroclor-1262	4	9.839	-0.003	741524	36.6	4	10.152	-0.005	1874167	102.4
Aroclor-1262	5	10.382	-0.004	1218084	79.3	5	10.743	-0.002	523136	58.2
	Total Col1Ave (5 peaks):				86.1		Total Col2Ave (5 peaks):			69.7 RPD = 21
	Corrected Ave (4 peaks):				66.8		Corrected Ave (5 peaks):			69.7 RPD = 4
Aroclor-1268	1	9.776	-0.002	585042	11.5	1	10.104	0.004	600260	21.3
Aroclor-1268	2	9.839	0.001	741524	15.3	2	10.152	-0.006	1874167	70.2
Aroclor-1268	3	10.179	0.018	459021	11.2	3	10.500	0.007	46789	2.2

Aroclor-1268	4	10.809	0.010	786127	7.2	4	11.150	-0.001	116200	1.9	
	Total Col1Ave (4 peaks):			11.3		Total Col2Ave (4 peaks):			23.9	RPD =	72*
	Corrected Ave (4 peaks):			11.3		Corrected Ave (3 peaks):			8.5	RPD =	28

Total PCB Area Col1 (4.623 - 11.035) = 122342045 Col1 Total PCB = 0.6 ppm*

Total PCB Area Col2 (4.705 - 11.396) = 81520840 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical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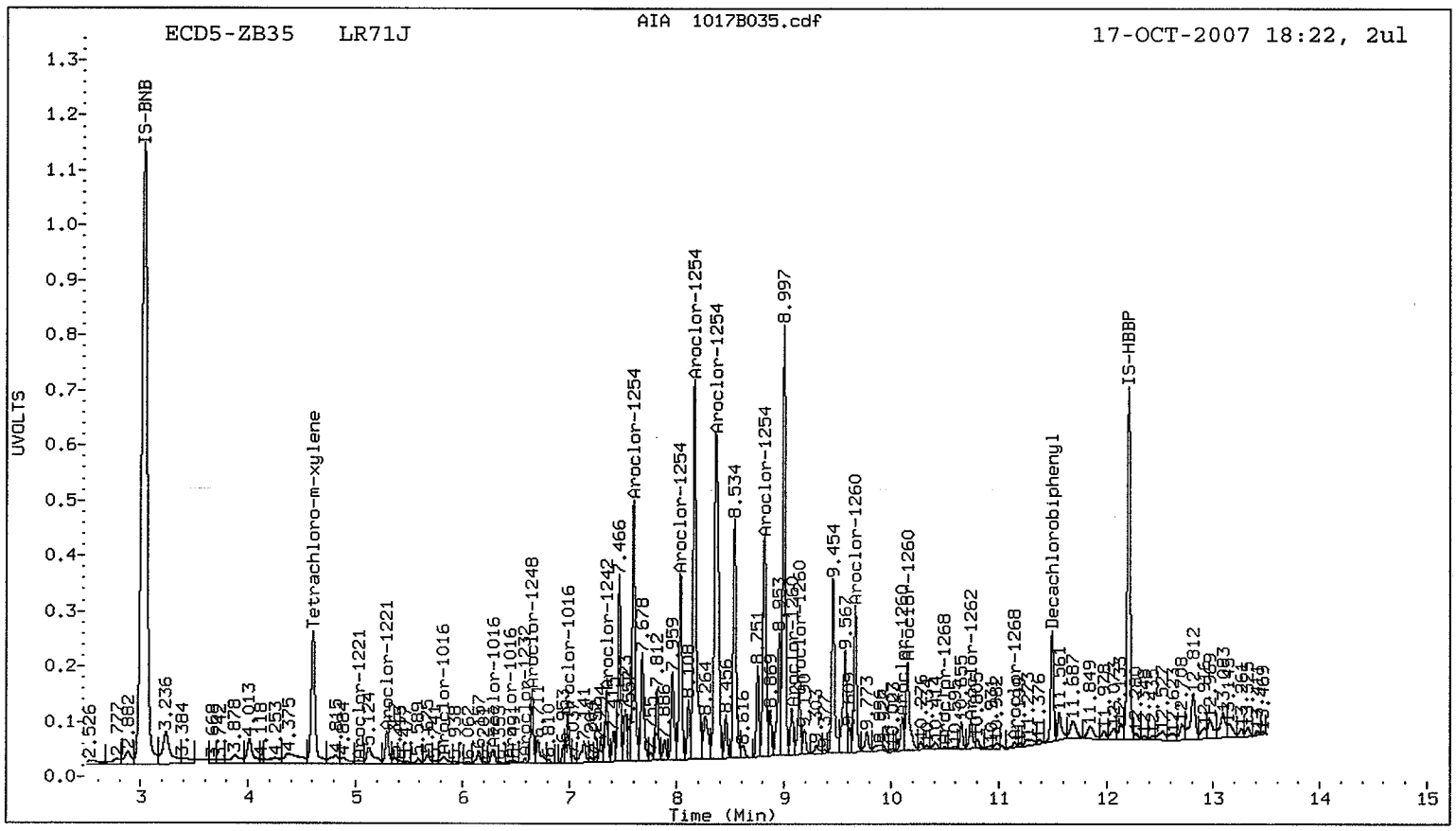
Decachlorobiphenyl
IS-HBBP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Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: AN-SS-08
SAMPLE

Lab Sample ID: LR71K
LIMS ID: 07-20776
Matrix: Sediment
Data Release Authorized:
Reported: 10/19/07

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes

Date Sampled: 09/27/07
Date Received: 09/29/07

Date Extracted: 10/11/07
Date Analyzed: 10/18/07 09:53
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.61 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 41.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	82	< 82 U
53469-21-9	Aroclor 1242	82	< 82 U
12672-29-6	Aroclor 1248	82	< 82 U
11097-69-1	**Aroclor 1254**	**82**	**100**
11096-82-5	Aroclor 1260	82	< 82 U
11104-28-2	Aroclor 1221	82	< 82 U
11141-16-5	Aroclor 1232	82	< 82 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.8%
Tetrachlorometaxylene	76.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20071016.b/1018-1.b/1018B003.d
Data file 2: 20071016.b/1018-2.b/1018B003.d
Method: /chem2/ecd5.i/20071016.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: LR71K
Client ID: AN-SS-08
Injection Date: 18-OCT-2007 09:53
Report Date: 10/18/2007 15:33
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.528	0.005	11352746	4.608	0.003	7836083	30.5	30.5	0.2	Tetrachloro-m-xylene M
11.137	0.002	9808478	11.497	0.001	5438026	38.2	39.5	3.2	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	76.1	76.3
Decachlorobiphenyl	95.6	98.7

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31569414	28444578	-9.9
Hexabromobiphenyl	9983366	8078427	-19.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20324893	19525495	-3.9
Hexabromobiphenyl	6610345	5733646	-13.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 16-OCT-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	RT	ZB35 Col Shift	Area	Amount
Aroclor-1016	1	5.700	0.004	300869	33.5	1	5.828	0.003	171128	17.7
Aroclor-1016	2	5.992	0.001	375476	13.8	2	6.296	0.003	248267	12.2
Aroclor-1016	3	6.109	0.007	123435	10.4	3	6.449	-0.004	143450	17.6
Aroclor-1016	4	6.360	0.003	302085	41.4	4	6.991	0.001	190232	29.7
Total Col1Ave (4 peaks):				24.8		Total Col2Ave (4 peaks):			19.3	RPD = 25
Corrected Ave (4 peaks):				24.8		Corrected Ave (4 peaks):			19.3	RPD = 25
Aroclor-1221	1	4.780	-0.003	204046	52.0	1	5.034	-0.032	99694	31.4
Aroclor-1221	2	4.919	0.010	230077	88.1	2	5.208	-0.032	155955	85.2
Aroclor-1221	3	4.995	0.009	158584	18.0	3	5.281	-0.041	128827	23.1
Aroclor-1221	NS	---			----	4	5.828	-0.009	171128	75.8
Total Col1Ave (3 peaks):				52.7		Total Col2Ave (4 peaks):			53.9	RPD = 2
Corrected Ave (3 peaks):				52.7		Corrected Ave (4 peaks):			53.9	RPD = 2
Aroclor-1232	1	4.995	0.011	158584	21.4	1	5.281	-0.041	128827	27.2
Aroclor-1232	2	5.700	0.004	300869	74.6	2	5.828	0.002	171128	36.0
Aroclor-1232	3	5.992	0.002	375476	31.2	3	6.296	0.002	248267	27.6
Aroclor-1232	4	6.109	0.005	123435	22.6	4	6.593	0.003	82088	36.4
Total Col1Ave (4 peaks):				37.5		Total Col2Ave (4 peaks):			31.8	RPD = 16
Corrected Ave (3 peaks):				25.1		Corrected Ave (4 peaks):			31.8	RPD = 24
Aroclor-1242	1	5.700	0.004	300869	41.6	1	5.281	-0.041	128827	32.8
Aroclor-1242	2	5.992	0.001	375476	17.3	2	5.828	0.003	171128	22.2
Aroclor-1242	3	6.109	0.005	123435	12.8	3	6.296	0.003	248267	15.5
Aroclor-1242	4	6.737	0.002	253927	27.6	4	6.449	-0.004	143450	22.4
Aroclor-1242	NS	---			----	5	7.350	0.001	323240	52.6
Total Col1Ave (4 peaks):				24.8		Total Col2Ave (5 peaks):			29.1	RPD = 16
Corrected Ave (4 peaks):				24.8		Corrected Ave (4 peaks):			23.2	RPD = 7
Aroclor-1248	1	5.992	0.000	375476	23.7	1	6.296	0.005	248267	20.6
Aroclor-1248	2	6.109	0.004	123435	20.5	2	6.656	0.001	271174	40.7
Aroclor-1248	3	6.360	0.003	302085	32.1	3	6.991	0.002	190232	24.3
Aroclor-1248	4	6.737	0.001	253927	18.3	4	7.350	0.001	323240	29.8
Aroclor-1248	5	7.077	0.003	817471	44.6	NS	---			----
Total Col1Ave (5 peaks):				27.8		Total Col2Ave (4 peaks):			28.8	RPD = 4
Corrected Ave (5 peaks):				27.8		Corrected Ave (4 peaks):			28.8	RPD = 4
Aroclor-1254	1	7.324	0.001	1393566	68.8	1	7.598	0.001	454955	40.9
Aroclor-1254	2	7.633	0.001	701887	56.3	2	8.035	-0.001	440239	51.9
Aroclor-1254	3	7.745	0.000	1482773	59.8	3	8.162	0.000	895842	49.1
Aroclor-1254	4	8.031	-0.001	1694094	63.5	4	8.362	-0.002	1079899	58.6
Aroclor-1254	5	8.339	0.003	1024007	65.3	5	8.813	-0.004	630885	60.8
Total Col1Ave (5 peaks):				62.7		Total Col2Ave (5 peaks):			52.3	RPD = 18
Corrected Ave (5 peaks):				62.7		Corrected Ave (5 peaks):			52.3	RPD = 18
Aroclor-1260	1	8.779	-0.001	148302	10.2	1	9.073	0.001	60841	6.9
Aroclor-1260	2	9.051	0.003	180908	14.8	2	9.141	0.001	99378	19.9
Aroclor-1260	3	9.361	0.013	1431376	44.3	3	9.669	0.005	191189	9.1
Aroclor-1260	4	9.686	-0.003	230225	15.4	4	10.075	-0.028	547315	96.2
Aroclor-1260	5	9.844	0.004	98044	10.6	5	10.155	0.001	106008	8.1
Total Col1Ave (5 peaks):				19.1		Total Col2Ave (5 peaks):			28.0	RPD = 38
Corrected Ave (4 peaks):				12.8		Corrected Ave (4 peaks):			11.0	RPD = 15
Aroclor-1262	1	9.051	0.002	180908	11.0	1	9.073	-0.001	60841	4.2
Aroclor-1262	2	9.361	0.011	1431376	34.5	2	9.669	0.003	191189	7.2
Aroclor-1262	3	9.686	-0.004	230225	18.1	3	10.075	-0.027	547315	48.7
Aroclor-1262	4	9.844	0.002	98044	5.4	4	10.155	-0.003	106008	6.1
Aroclor-1262	5	10.391	0.006	450582	32.6	5	10.740	-0.006	208832	24.6
Total Col1Ave (5 peaks):				20.3		Total Col2Ave (5 peaks):			18.2	RPD = 11
Corrected Ave (5 peaks):				20.3		Corrected Ave (4 peaks):			10.5	RPD = 64*
Aroclor-1268	1	9.785	0.007	143191	3.1	1	10.075	-0.026	547315	20.6
Aroclor-1268	2	9.844	0.006	98044	2.2	2	10.155	-0.004	106008	4.2
Aroclor-1268	3	10.181	0.019	31909	0.9	3	10.576	0.083	1189415	59.8

Aroclor-1268	4	10.814	0.014	721537	7.3	4	11.113	-0.039	83047	1.4

Total Col1Ave (4 peaks): 3.4 Total Col2Ave (4 peaks): 21.5 RPD = 146*

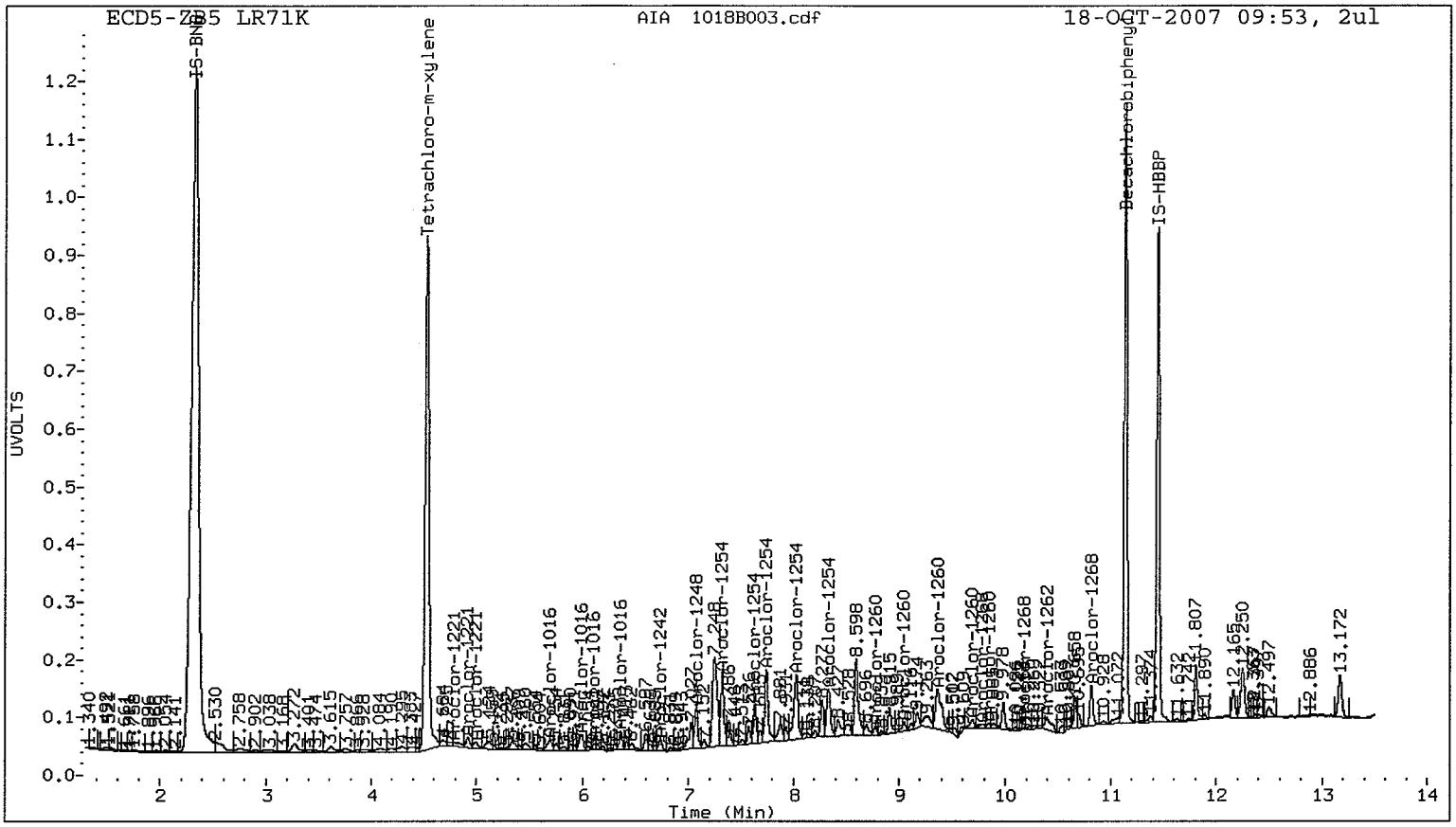
Corrected Ave (3 peaks): 2.1 Corrected Ave (3 peaks): 8.7 RPD = 123*

Total PCB Area Col1 (4.623 - 11.035) = 28090392 Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (4.705 - 11.396) = 18451591 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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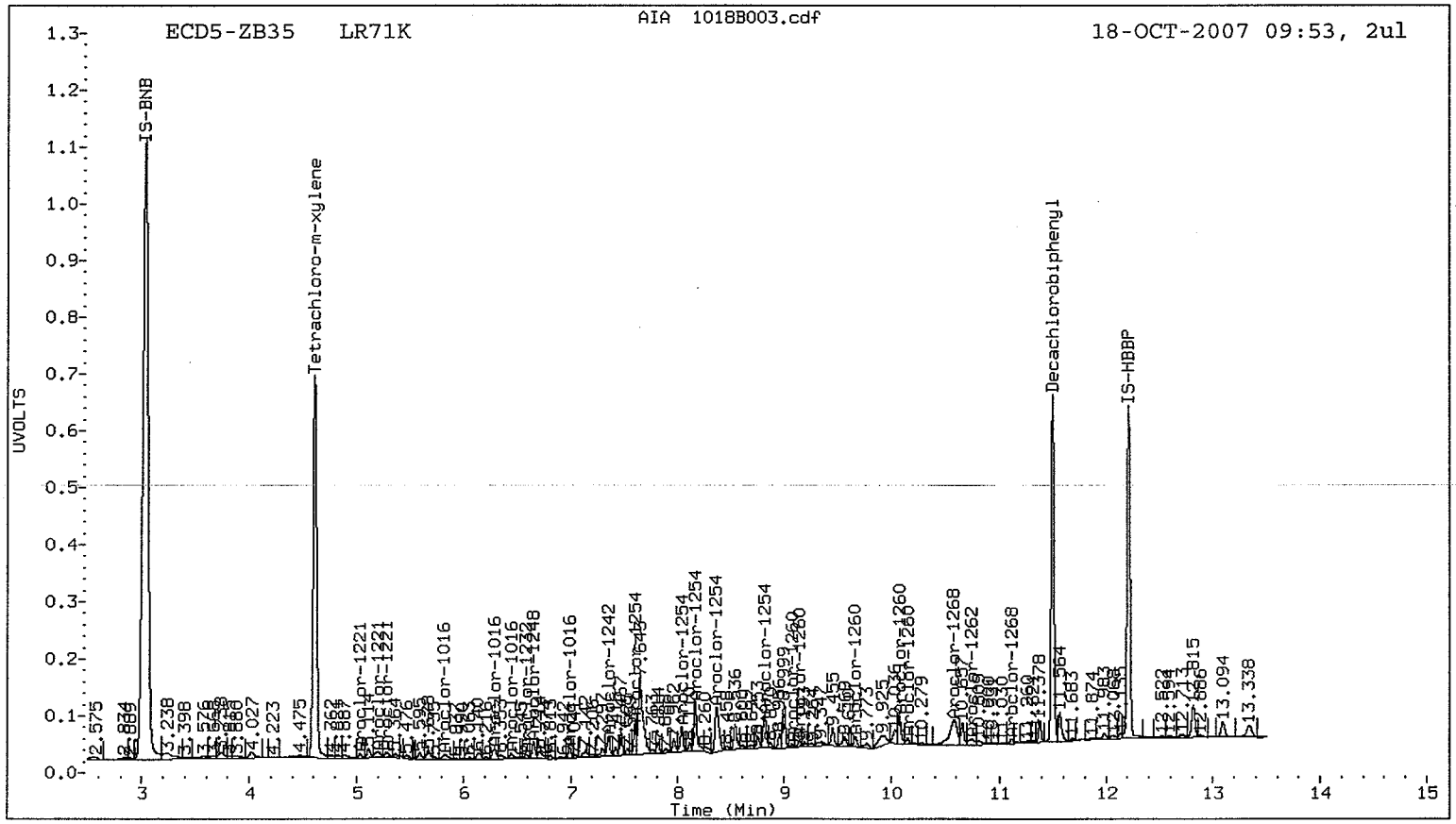
Tetrachloro-m-xylene
IS-HBBP
UVOLTS
Time (Min)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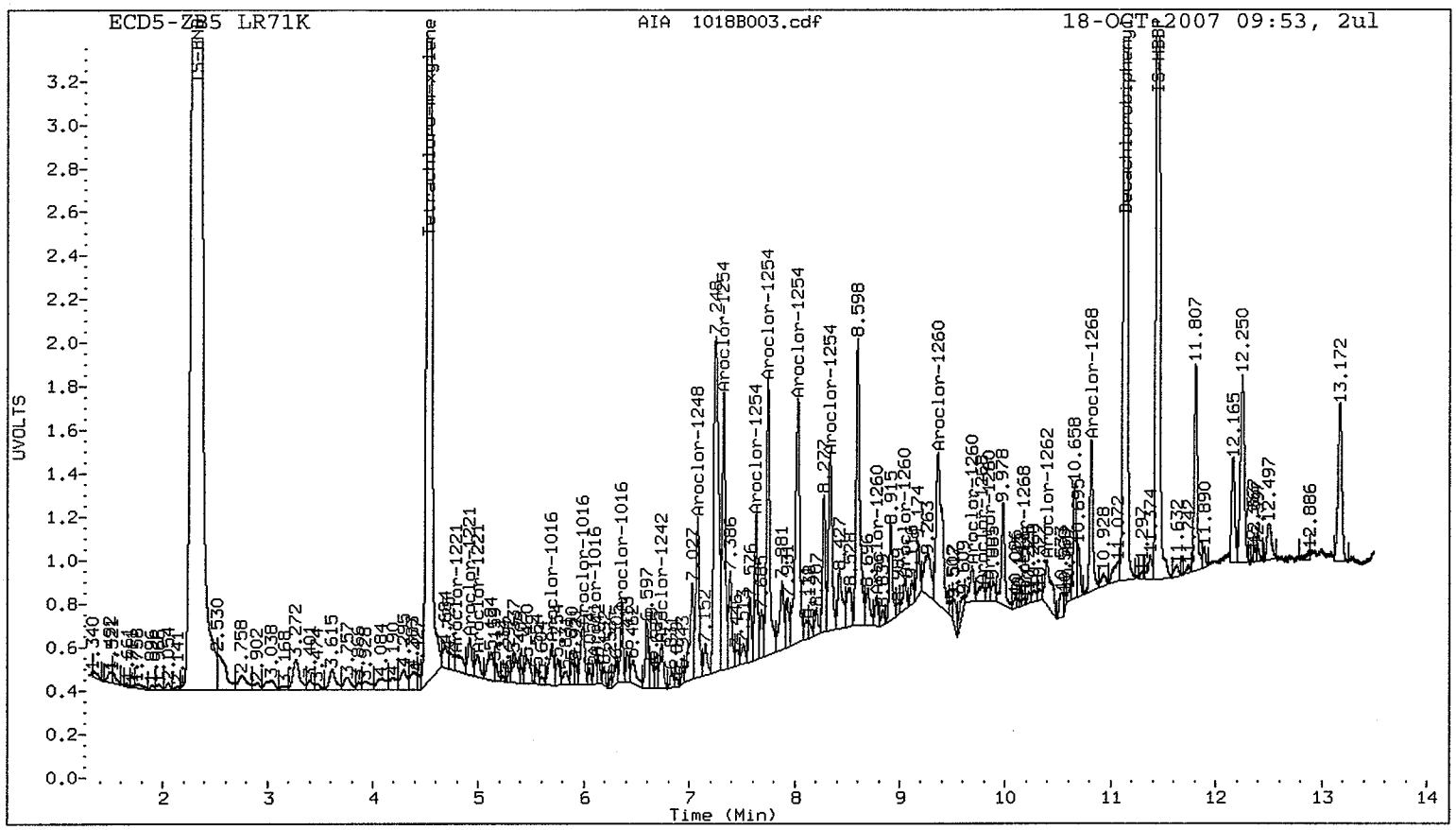
IS-HBBP
UVOLTS
Time (Min)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UVOLTS
Time (Min)
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Tetrachloro-m-xylene
Decachlorobiphenyl
IS=HBBP
Aroclor-1221
Aroclor-1016
Aroclor-1242
Aroclor-1248
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Aroclor-1260
Aroclor-1262
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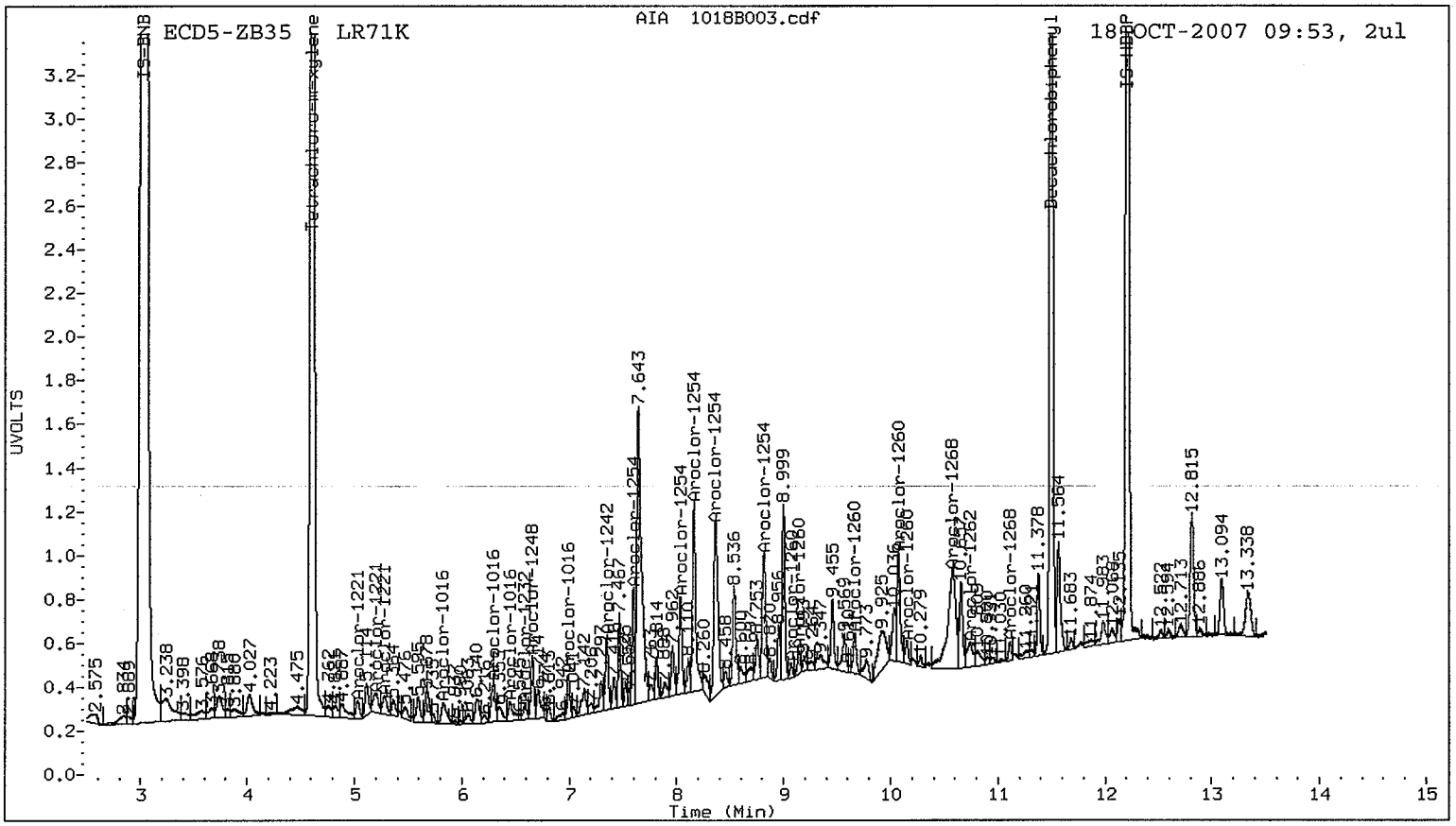
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Time (Min)
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Tetrachloro-m-xylene
Decachlorobiphenyl
IS=HBBP
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Aroclor-1016
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: AN-SS-09
SAMPLE

Lab Sample ID: LR71L
LIMS ID: 07-20777
Matrix: Sediment
Data Release Authorized:
Reported: 10/19/07

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes

Date Sampled: 09/27/07
Date Received: 09/29/07

Date Extracted: 10/11/07
Date Analyzed: 10/18/07 10:10
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.71 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 34.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	70	< 70 U
53469-21-9	Aroclor 1242	70	< 70 U
12672-29-6	Aroclor 1248	70	< 70 U
11097-69-1	**Aroclor 1254**	**70**	**99**
11096-82-5	Aroclor 1260	70	< 70 U
11104-28-2	Aroclor 1221	70	< 70 U
11141-16-5	Aroclor 1232	70	< 70 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.0%
Tetrachlorometaxylene	70.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20071016.b/1018-1.b/1018B004.d
Data file 2: 20071016.b/1018-2.b/1018B004.d
Method: /chem2/ecd5.i/20071016.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: LR71L
Client ID: AN-SS-09
Injection Date: 18-OCT-2007 10:10
Report Date: 10/18/2007 15:33
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.525	0.002	11085187	4.607	0.001	7694598	28.0	27.9	0.3	Tetrachloro-m-xylene MN
11.134	-0.001	10140313	11.496	0.000	5430965	37.6	37.6	0.0	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	69.9	69.7
Decachlorobiphenyl	94.1	94.1

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	31569414	30235999	-4.2
Hexabromobiphenyl	9983366	8481610	-15.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20324893	20977271	3.2
Hexabromobiphenyl	6610345	6008669	-9.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 16-OCT-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	5.692	-0.004	374537	39.2	1	5.829	0.005	384791	37.1
Aroclor-1016	2	5.989	-0.002	441122	15.3	2	6.295	0.003	341285	15.6
Aroclor-1016	3	6.105	0.002	163520	12.9	3	6.452	-0.001	142773	16.3
Aroclor-1016	4	6.359	0.002	558050	71.9	4	6.990	0.000	297255	43.2
	Total Col1Ave (4 peaks):			34.8		Total Col2Ave (4 peaks):			28.1	RPD = 22
	Corrected Ave (3 peaks):			22.5		Corrected Ave (4 peaks):			28.1	RPD = 22
Aroclor-1221	1	4.825	0.042	157793	37.9	1	5.027	-0.039	151611	44.4
Aroclor-1221	2	4.914	0.005	214516	77.3	2	5.210	-0.030	317708	161.5
Aroclor-1221	3	4.989	0.003	184892	19.7	3	5.323	0.000	21346	3.6
Aroclor-1221	NS	---			----	4	5.829	-0.007	384791	158.7
	Total Col1Ave (3 peaks):			44.9		Total Col2Ave (4 peaks):			92.0	RPD = 69*
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.989	0.005	184892	23.5	1	5.323	0.000	21346	4.2
Aroclor-1232	2	5.692	-0.004	374537	87.3	2	5.829	0.004	384791	75.3
Aroclor-1232	3	5.989	-0.002	441122	34.5	3	6.295	0.002	341285	35.3
Aroclor-1232	4	6.105	0.000	163520	28.2	4	6.587	-0.003	89919	37.2
	Total Col1Ave (4 peaks):			43.4		Total Col2Ave (4 peaks):			38.0	RPD = 13
	Corrected Ave (3 peaks):			28.7		Corrected Ave (3 peaks):			25.6	RPD = 12
Aroclor-1242	1	5.692	-0.004	374537	48.7	1	5.323	0.000	21346	5.1
Aroclor-1242	2	5.989	-0.003	441122	19.1	2	5.829	0.005	384791	46.5
Aroclor-1242	3	6.105	0.000	163520	16.0	3	6.295	0.002	341285	19.8
Aroclor-1242	4	6.733	-0.002	347070	35.5	4	6.452	-0.001	142773	20.7
Aroclor-1242	NS	---			----	5	7.349	0.000	527497	79.9
	Total Col1Ave (4 peaks):			29.8		Total Col2Ave (5 peaks):			34.4	RPD = 14
	Corrected Ave (4 peaks):			29.8		Corrected Ave (4 peaks):			23.0	RPD = 26
Aroclor-1248	1	5.989	-0.003	441122	26.2	1	6.295	0.004	341285	26.4
Aroclor-1248	2	6.105	-0.001	163520	25.5	2	6.655	-0.001	428290	59.8
Aroclor-1248	3	6.359	0.001	558050	55.8	3	6.990	0.000	297255	35.3
Aroclor-1248	4	6.733	-0.003	347070	23.6	4	7.349	0.000	527497	45.3
Aroclor-1248	5	7.073	-0.001	1280136	65.6	NS	---			----
	Total Col1Ave (5 peaks):			39.3		Total Col2Ave (4 peaks):			41.7	RPD = 6
	Corrected Ave (5 peaks):			39.3		Corrected Ave (4 peaks):			41.7	RPD = 6
Aroclor-1254	1	7.322	-0.001	1509303	70.1	1	7.597	-0.001	811832	67.9
Aroclor-1254	2	7.630	-0.002	941969	71.0	2	8.033	-0.002	624670	68.6
Aroclor-1254	3	7.741	-0.004	1891421	71.8	3	8.160	-0.002	1358292	69.2
Aroclor-1254	4	8.027	-0.005	1943778	68.5	4	8.358	-0.006	1336161	67.5
Aroclor-1254	5	8.338	0.002	1194669	71.7	5	8.812	-0.005	797439	71.6
	Total Col1Ave (5 peaks):			70.6		Total Col2Ave (5 peaks):			69.0	RPD = 2
	Corrected Ave (5 peaks):			70.6		Corrected Ave (5 peaks):			69.0	RPD = 2
Aroclor-1260	1	8.779	-0.001	153460	10.1	1	9.072	0.000	77529	8.4
Aroclor-1260	2	9.048	0.000	126906	9.9	2	9.140	0.000	131373	25.1
Aroclor-1260	3	9.349	0.001	408633	12.1	3	9.663	-0.001	260257	11.8
Aroclor-1260	4	9.688	-0.002	279248	17.8	4	10.073	-0.030	330676	55.4
Aroclor-1260	5	9.840	0.000	89907	9.3	5	10.151	-0.003	143074	10.4
	Total Col1Ave (5 peaks):			11.8		Total Col2Ave (5 peaks):			22.2	RPD = 61*
	Corrected Ave (5 peaks):			11.8		Corrected Ave (4 peaks):			13.9	RPD = 16
Aroclor-1262	1	9.048	-0.001	126906	7.3	1	9.072	-0.002	77529	5.1
Aroclor-1262	2	9.349	-0.001	408633	9.4	2	9.663	-0.003	260257	9.3
Aroclor-1262	3	9.688	-0.003	279248	21.0	3	10.073	-0.030	330676	28.1
Aroclor-1262	4	9.840	-0.002	89907	4.7	4	10.151	-0.006	143074	7.9
Aroclor-1262	5	10.387	0.001	131156	9.0	5	10.740	-0.006	95942	10.8
	Total Col1Ave (5 peaks):			10.3		Total Col2Ave (5 peaks):			12.2	RPD = 17
	Corrected Ave (4 peaks):			7.6		Corrected Ave (4 peaks):			8.3	RPD = 8
Aroclor-1268	1	9.774	-0.004	94877	2.0	1	10.073	-0.028	330676	11.9
Aroclor-1268	2	9.840	0.002	89907	2.0	2	10.151	-0.007	143074	5.4
Aroclor-1268	3	10.172	0.011	48399	1.2	3	10.417	-0.076	18937	0.9

Aroclor-1268	4	10.812	0.013	792726	7.6	4	11.152	0.001	26591	0.4

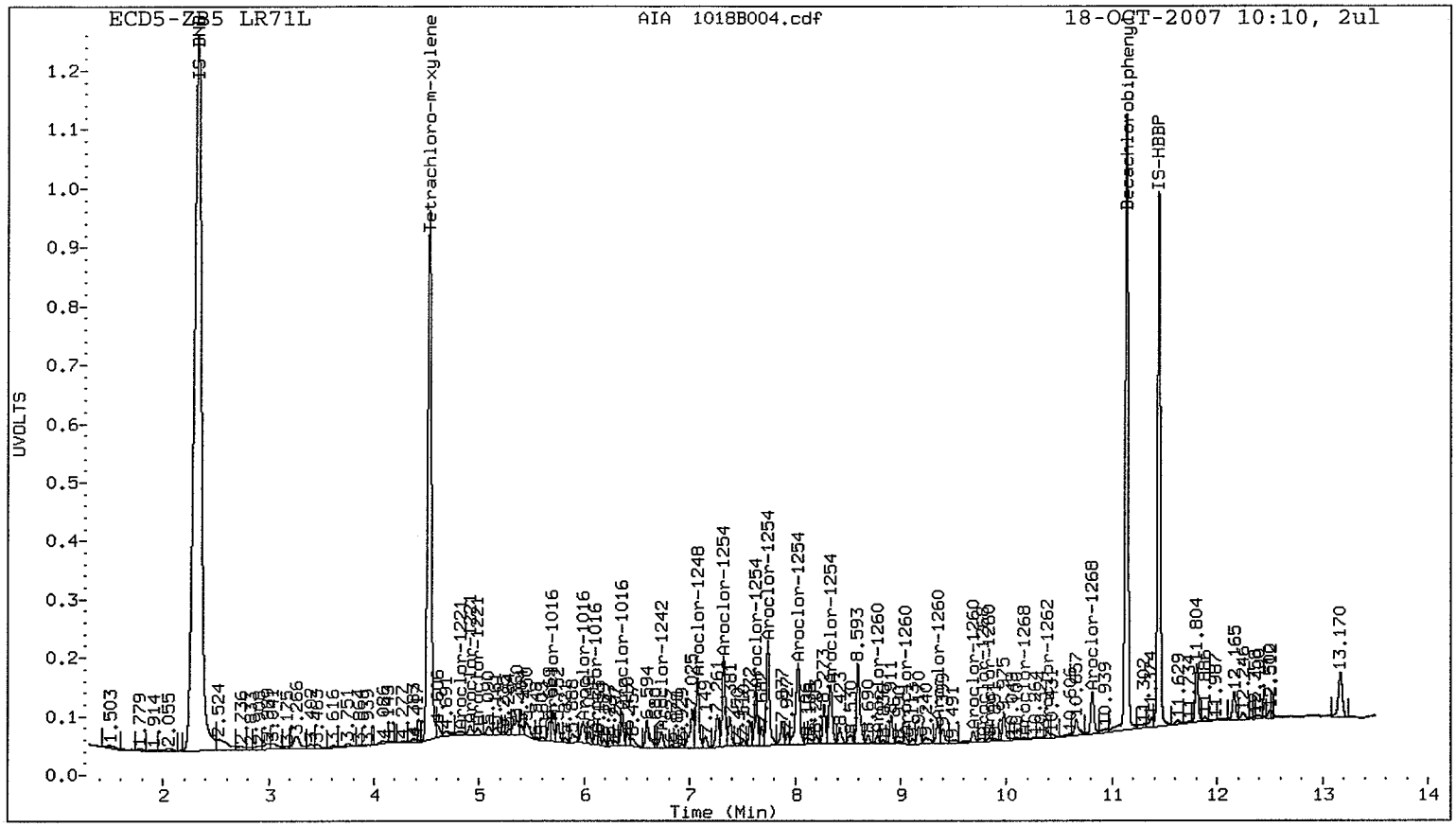
Total Col1Ave (4 peaks): 3.2 Total Col2Ave (4 peaks): 4.7 RPD = 37

Corrected Ave (3 peaks): 1.7 Corrected Ave (3 peaks): 2.2 RPD = 26

Total PCB Area Col1 (4.623 - 11.035) = 28044673 Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (4.705 - 11.396) = 19654741 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical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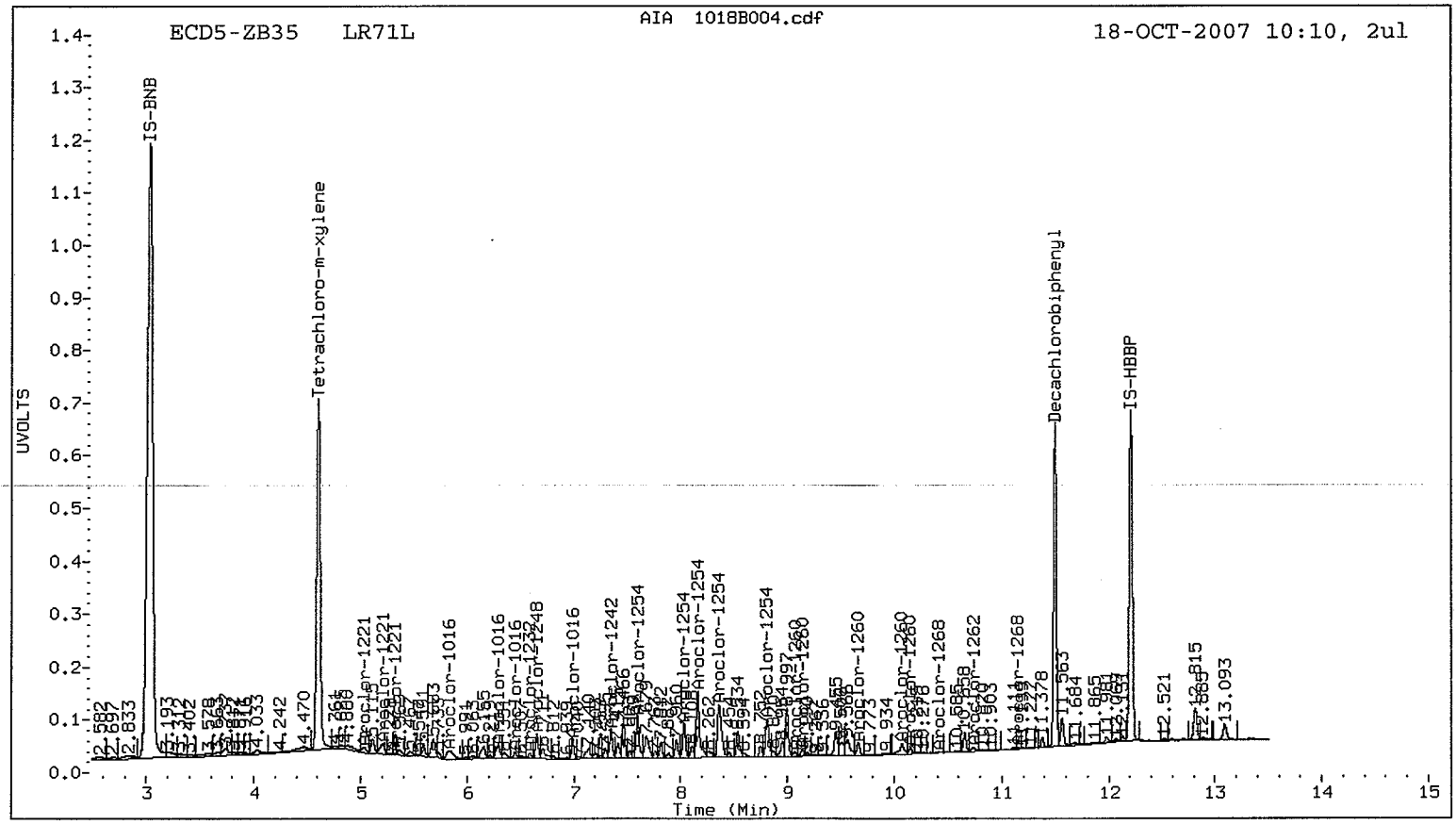
Decachlorobiphenyl
IS-HBBP
UVOLTS
Time (Min)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IS-HBBP
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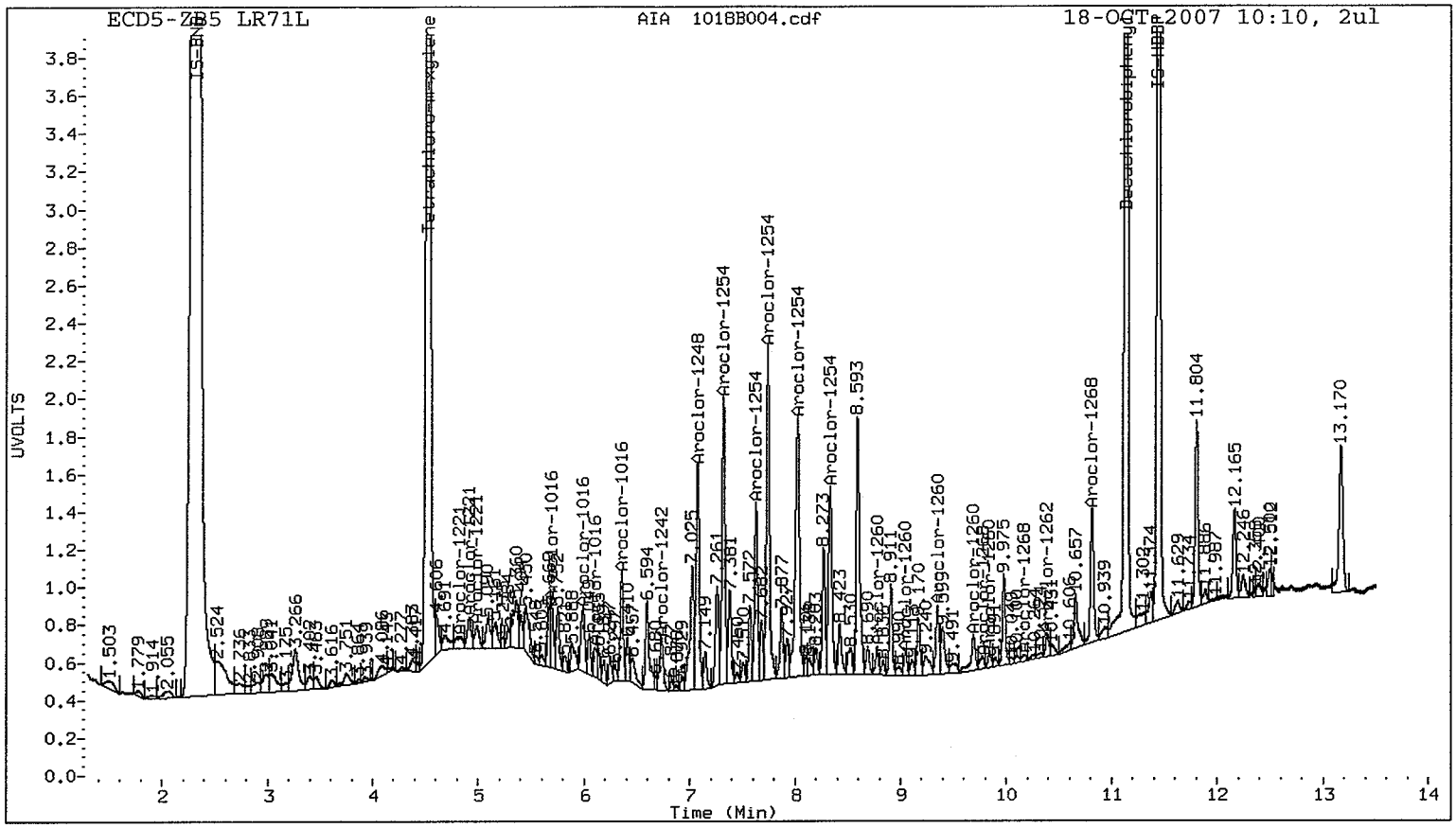
Time (Min)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Aroclor-1221
Aroclor-1232
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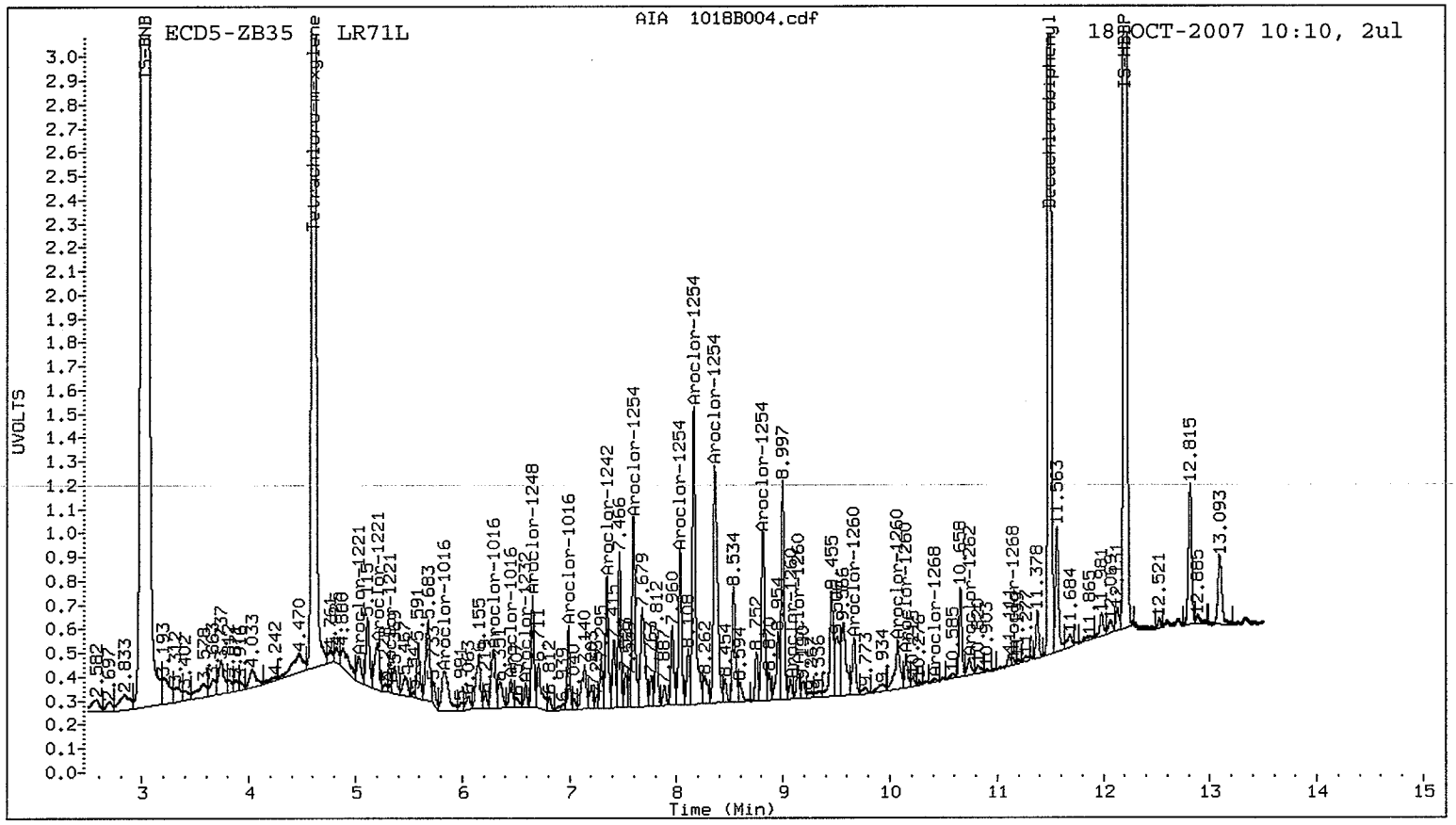
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268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Time (Min)
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Tetrachloro-m-xylene
Decachlorobiphenyl
IS=HBBP
Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268

PCB Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project : KIMBERLY CLARK ANACORTES

ARI JOB NO. LR71

prepared
by

Analytical Resources, Inc.

6F

8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No.: LR71 Project: KIMBERLY CLARK ANACO

GC Column: ZB5 Instrument ID: ECD5

Calibration Date: 10/16/07

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	4.42- 4.62	1.2017	1.0483	1.0469	0.9776	0.9667	1.0482	8.9
DCB	11.04-11.24	3.1114	2.4841	2.4131	2.2637	2.4299	2.5404	13.0

Aroclor-1016 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	5.60- 5.80	0.0325	0.0252	0.0245	0.0216	0.0224	0.0253	17.1
2	5.89- 6.09	0.0905	0.0753	0.0738	0.0683	0.0736	0.0763	11.0
3	6.00- 6.20	0.0427	0.0334	0.0328	0.0285	0.0300	0.0335	16.6
4	6.26- 6.46	0.0256	0.0204	0.0201	0.0177	0.0189	0.0205	14.7

AROCLOR AVERAGE %RSD = 14.8

Aroclor-1260 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	8.68- 8.88	0.1733	0.1448	0.1430	0.1295	0.1262	0.1434	13.0
2	8.95- 9.15	0.1447	0.1209	0.1200	0.1093	0.1120	0.1214	11.5
3	9.25- 9.45	0.3693	0.3153	0.3175	0.2924	0.3036	0.3196	9.2
4	9.59- 9.79	0.1737	0.1428	0.1432	0.1314	0.1487	0.1479	10.6
5	9.74- 9.94	0.1078	0.0931	0.0941	0.0855	0.0775	0.0916	12.3

AROCLOR AVERAGE %RSD = 11.3

6F

8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No.: LR71 Project: KIMBERLY CLARK ANACO

GC Column: ZB35 Instrument ID: ECD5

Calibration Date: 10/16/07

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	4.51- 4.71	1.1288	1.0193	1.0594	1.0164	1.0354	1.0519	4.4
DCB	11.40-11.60	1.9642	1.8402	1.9463	1.8431	2.0126	1.9213	4.0

Aroclor-1016 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	5.72- 5.92	0.0493	0.0398	0.0377	0.0341	0.0369	0.0396	14.8
2	6.19- 6.39	0.0999	0.0813	0.0799	0.0744	0.0825	0.0836	11.5
3	6.35- 6.55	0.0407	0.0332	0.0321	0.0292	0.0318	0.0334	12.9
4	6.89- 7.09	0.0322	0.0256	0.0250	0.0234	0.0249	0.0262	13.0

AROCLOR AVERAGE %RSD = 13.1

Aroclor-1260 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	8.97- 9.17	0.1577	0.1236	0.1230	0.1081	0.1033	0.1231	17.3
2	9.04- 9.24	0.0861	0.0692	0.0699	0.0607	0.0628	0.0697	14.3
3	9.56- 9.76	0.3685	0.2795	0.2896	0.2618	0.2702	0.2939	14.6
4	10.00-10.20	0.0970	0.0806	0.0793	0.0722	0.0680	0.0794	14.0
5	10.05-10.25	0.2145	0.1772	0.1821	0.1671	0.1745	0.1831	10.0

AROCLOR AVERAGE %RSD = 14.0