

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9510
Instrument ID: GC09.i

Column: DB-XLB

Level ID	File ID	Level ID	File ID
A	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R022.D	Q	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R038.D
B	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R023.D	R	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R039.D
C	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R024.D	S	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R040.D
D	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R025.D	T	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R041.D
E	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R026.D	U	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R042.D
F	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R027.D	V	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R043.D
G	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R028.D	W	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R044.D
H	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R029.D	X	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R045.D
I	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R030.D	Y	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R046.D
J	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R031.D	Z	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R047.D
K	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R032.D	AA	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R048.D
L	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R033.D	AB	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R049.D
M	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R034.D	AC	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R050.D
N	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R035.D	AD	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R051.D
O	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R036.D		
P	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R037.D		

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Decachlorobiphenyl	A	2.5	5660	B	5.0	5610	C	50	5290	D	100	5190	E	200	4790
	F	500	4260												
Aroclor 1016 {1}	A	25	198	B	50	195	C	500	190	D	1000	188	E	2000	173
	F	5000	155												
Aroclor 1016 {2}	A	25	375	B	50	377	C	500	322	D	1000	320	E	2000	291
	F	5000	255												
Aroclor 1016 {3}	A	25	148	B	50	139	C	500	173	D	1000	176	E	2000	163
	F	5000	148												
Aroclor 1016 {4}	A	25	142	B	50	136	C	500	140	D	1000	137	E	2000	124
	F	5000	105												
Aroclor 1016 {5}	A	25	152	B	50	152	C	500	159	D	1000	156	E	2000	139
	F	5000	125												
Aroclor 1260 {1}	A	25	294	B	50	311	C	500	290	D	1000	281	E	2000	257
	F	5000	232												
Aroclor 1260 {2}	A	25	320	B	50	344	C	500	308	D	1000	296	E	2000	270
	F	5000	243												
Aroclor 1260 {3}	A	25	392	B	50	383	C	500	383	D	1000	382	E	2000	358
	F	5000	334												
Aroclor 1260 {4}	A	25	188	B	50	237	C	500	253	D	1000	256	E	2000	245
	F	5000	234												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9510
Instrument ID: GC09.i

Column: DB-XLB

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Aroclor 1260 {5}	A	25	456	B	50	453	C	500	449	D	1000	450	E	2000	428
	F	5000	401												

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Client: Exponent
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Service Request: K1005244
Calibration Date: 05/27/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9510
Instrument ID: GC09.i

Column: DB-XLB

Analyte Name	Compound Type	Calibration Evaluation				Control Criteria
		Fit Type	Eval.	Eval. Result	Q	
Decachlorobiphenyl	SURR	AverageRF	% RSD	10.4		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	14.7		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.6		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	10.7		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	8.7		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	10.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.1		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	5.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.5		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	4.9		≤ 20

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010
Date Analyzed: 05/28/2010

**Second Source Calibration Verification
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration ID: CAL9510
Units: ng/mL

File ID: \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R052.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R053.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R054.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R055.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R056.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R057.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R058.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R059.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R060.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	183	195	6	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	323	326	1	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	158	181	15	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	131	137	5	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	147	163	10	NA	± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	-7	± 15 %	NA
Aroclor 1260 {1}	1000	1000	277	280	1	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	980	297	292	-2	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	910	372	339	-9	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	235	282	20	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	440	506	15	NA	± 100 %	AverageRF
Aroclor 1260	1000	1100	NA	NA	NA	-5	± 15 %	NA

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† SPCC Compound

‡ CCC Compound

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QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 06/08/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082
CCV Standard ID: PCB5-55I

Calibration Date: 05/27/2010
Calibration ID: CAL9510
Analysis Lot: KWG1005547
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F003.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	97	5900	5740	-3	NA	± 15 %	AverageRF
Aroclor 1016 {1}	1000	1000	142	146	3	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	286	300	5	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1000	243	245	1	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	970	207	201	-3	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	154	158	2	NA	± 100 %	AverageRF
Aroclor 1016	1000	1000	NA	NA	NA	2	± 15 %	NA
Aroclor 1260 {1}	1000	950	302	288	-5	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	930	370	346	-7	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	940	453	425	-6	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	990	433	429	-1	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	990	571	567	-1	NA	± 100 %	AverageRF
Aroclor 1260	1000	960	NA	NA	NA	-4	± 15 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 06/08/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082
CCV Standard ID: PCB5-551

Calibration Date: 05/27/2010
Calibration ID: CAL9510
Analysis Lot: KWG1005547
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASH1\ACQU\DATA\GC09\DATA\060810_R.B\0608R003.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	100	5130	5210	1	NA	± 15 %	AverageRF
Aroclor 1016 {1}	1000	990	183	181	-1	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	960	323	311	-4	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	158	172	9	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	131	135	3	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	147	154	5	NA	± 100 %	AverageRF
Aroclor 1016	1000	1000	NA	NA	NA	2	± 15 %	NA
Aroclor 1260 {1}	1000	990	277	275	-1	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	980	297	290	-2	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1000	372	374	1	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	235	252	7	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1000	440	442	1	NA	± 100 %	AverageRF
Aroclor 1260	1000	1000	NA	NA	NA	1	± 15 %	NA

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Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 06/09/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082
CCV Standard ID: PCB5-55I

Calibration Date: 05/27/2010
Calibration ID: CAL9510
Analysis Lot: KWG1005547
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASHI\ACQU\DATA\GC09\DATA\060810.B\0608F019.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	98	5900	5760	-2	NA	± 15 %	AverageRF
Aroclor 1016 {1}	1000	1000	142	143	1	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	286	295	3	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	960	243	232	-4	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	970	207	201	-3	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	154	156	1	NA	± 100 %	AverageRF
Aroclor 1016	1000	990	NA	NA	NA	-1	± 15 %	NA
Aroclor 1260 {1}	1000	940	302	284	-6	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	930	370	344	-7	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	930	453	421	-7	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	990	433	427	-1	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1000	571	571	0	NA	± 100 %	AverageRF
Aroclor 1260	1000	960	NA	NA	NA	-4	± 15 %	NA

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Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 06/09/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082
CCV Standard ID: PCB5-55I

Calibration Date: 05/27/2010
Calibration ID: CAL9510
Analysis Lot: KWG1005547
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASH1\ACQU\DATA\GC09\DATA\060810_R.B\0608R019.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	100	5130	5190	1	NA	± 15 %	AverageRF
Aroclor 1016 {1}	1000	970	183	178	-3	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	950	323	306	-5	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	158	170	7	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	131	133	2	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	147	152	3	NA	± 100 %	AverageRF
Aroclor 1016	1000	1000	NA	NA	NA	1	± 15 %	NA
Aroclor 1260 {1}	1000	990	277	274	-1	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	980	297	292	-2	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1000	372	374	0	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	235	251	7	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1000	440	443	1	NA	± 100 %	AverageRF
Aroclor 1260	1000	1000	NA	NA	NA	1	± 15 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244

**Analysis Run Log
 Polychlorinated Biphenyls (PCBs)**

Analysis Method: 8082

Analysis Lot: KWG1005547
Instrument ID: GC09.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0608F002.D	Instrument Blank	KWG1005547-1	6/8/2010	18:01		6/8/2010	18:01
0608F003.D	Continuing Calibration Verification	KWG1005547-2	6/8/2010	18:27		6/8/2010	18:27
0608F004.D	ZZZZZZ	ZZZZZZ	6/8/2010	18:53		6/8/2010	18:53
0608F005.D	Method Blank	KWG1005541-2	6/8/2010	19:19		6/8/2010	19:19
0608F006.D	Lab Control Sample	KWG1005541-1	6/8/2010	19:45		6/8/2010	19:45
0608F007.D	D-4-16	K1005244-003	6/8/2010	20:12		6/8/2010	20:12
0608F008.D	D-4-16MS	KWG1005541-3	6/8/2010	20:38		6/8/2010	20:38
0608F009.D	D-4-16DMS	KWG1005541-4	6/8/2010	21:04		6/8/2010	21:04
0608F010.D	ZZZZZZ	ZZZZZZ	6/8/2010	21:30		6/8/2010	21:30
0608F011.D	ZZZZZZ	ZZZZZZ	6/8/2010	21:56		6/8/2010	21:56
0608F012.D	ZZZZZZ	ZZZZZZ	6/8/2010	22:22		6/8/2010	22:22
0608F013.D	ZZZZZZ	ZZZZZZ	6/8/2010	22:48		6/8/2010	22:48
0608F014.D	ZZZZZZ	ZZZZZZ	6/8/2010	23:14		6/8/2010	23:14
0608F015.D	ZZZZZZ	ZZZZZZ	6/8/2010	23:40		6/8/2010	23:40
0608F016.D	ZZZZZZ	ZZZZZZ	6/9/2010	00:06		6/9/2010	00:06
0608F018.D	Instrument Blank	KWG1005547-3	6/9/2010	00:59		6/9/2010	00:59
0608F019.D	Continuing Calibration Verification	KWG1005547-4	6/9/2010	01:25		6/9/2010	01:25
0608F020.D	ZZZZZZ	ZZZZZZ	6/9/2010	01:51		6/9/2010	01:51
0608F021.D	ZZZZZZ	ZZZZZZ	6/9/2010	02:17		6/9/2010	02:17
0608F022.D	ZZZZZZ	ZZZZZZ	6/9/2010	02:43		6/9/2010	02:43
0608F024.D	ZZZZZZ	ZZZZZZ	6/9/2010	03:35		6/9/2010	03:35
0608F025.D	ZZZZZZ	ZZZZZZ	6/9/2010	04:02		6/9/2010	04:02
0608F026.D	ZZZZZZ	ZZZZZZ	6/9/2010	04:28		6/9/2010	04:28
0608F027.D	ZZZZZZ	ZZZZZZ	6/9/2010	04:54		6/9/2010	04:54
0608F028.D	ZZZZZZ	ZZZZZZ	6/9/2010	05:20		6/9/2010	05:20
0608F029.D	ZZZZZZ	ZZZZZZ	6/9/2010	05:46		6/9/2010	05:46
0608F031.D	Instrument Blank	KWG1005547-5	6/9/2010	06:38		6/9/2010	06:38
0608F032.D	Continuing Calibration Verification	KWG1005547-6	6/9/2010	07:04		6/9/2010	07:04

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 06/02/2010

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082

Extraction Lot: KWG1005541
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
D-4-16	K1005244-003	05/19/10	05/21/10	22.55g	4mL	90.7	
Method Blank	KWG1005541-2	NA	NA	22.78g	4mL	NA	
D-4-16MS	KWG1005541-3	05/19/10	05/21/10	22.78g	4mL	90.7	
D-4-16DMS	KWG1005541-4	05/19/10	05/21/10	22.33g	4mL	90.7	
Lab Control Sample	KWG1005541-1	NA	NA	20.00g	4mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010
Date Extracted: 06/02/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: D-4-16
Lab Code: K1005244-003
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	9.8	2.1	14	14	0.0		1	06/08/10

Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Validation Package

Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Validation Package

QC Reports

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244

**Surrogate Recovery Summary
 Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3541
Analysis Method: 8082

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
D-4-16	K1005244-003	106
Method Blank	KWG1005541-2	78
D-4-16MS	KWG1005541-3	103
D-4-16DMS	KWG1005541-4	87
Lab Control Sample	KWG1005541-1	93

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

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 Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 06/02/2010
Date Analyzed: 06/08/2010

**Matrix Spike/Duplicate Matrix Spike Summary
 Polychlorinated Biphenyls (PCBs)**

Sample Name: D-4-16
Lab Code: K1005244-003
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1005541

Analyte Name	Sample Result	D-4-16MS KWG1005541-3 Matrix Spike			D-4-16DMS KWG1005541-4 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	ND	219	194	113	188	197	95	27-174	15	40
Aroclor 1260	ND	215	194	111	183	197	93	20-185	16	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 06/02/2010
Date Analyzed: 06/08/2010

**Lab Control Spike Summary
 Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1005541

Lab Control Sample
 KWG1005541-1
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Aroclor 1016	203	200	101	48-121
Aroclor 1260	204	200	102	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 06/02/2010
Date Analyzed: 06/08/2010
Time Analyzed: 19:19

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1005541-2
Extraction Method: EPA 3541
Analysis Method: 8082

File ID: J:\GC09\DATA\060810.B\0608F005.D
Instrument ID: GC09.i
Level: Low
Extraction Lot: KWG1005541

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1005541-1	J:\GC09\DATA\060810.B\0608F006.D	06/08/10	19:45
D-4-16	K1005244-003	J:\GC09\DATA\060810.B\0608F007.D	06/08/10	20:12
D-4-16MS	KWG1005541-3	J:\GC09\DATA\060810.B\0608F008.D	06/08/10	20:38
D-4-16DMS	KWG1005541-4	J:\GC09\DATA\060810.B\0608F009.D	06/08/10	21:04

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 06/02/2010
Date Analyzed: 06/08/2010
Time Analyzed: 19:45

**Lab Control Sample Summary
 Polychlorinated Biphenyls (PCBs)**

Sample Name: Lab Control Sample
Lab Code: KWG1005541-1
Extraction Method: EPA 3541
Analysis Method: 8082

File ID: J:\GC09\DATA\060810.B\0608F006.D
Instrument ID: GC09.i
Level: Low
Extraction Lot: KWG1005541

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1005541-2	J:\GC09\DATA\060810.B\0608F005.D	06/08/10	19:19
D-4-16	K1005244-003	J:\GC09\DATA\060810.B\0608F007.D	06/08/10	20:12
D-4-16MS	KWG1005541-3	J:\GC09\DATA\060810.B\0608F008.D	06/08/10	20:38
D-4-16DMS	KWG1005541-4	J:\GC09\DATA\060810.B\0608F009.D	06/08/10	21:04

Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Validation Package

Raw Data

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: D-4-16
Lab Code: K1005244-003
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	9.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1221	ND	U	20	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1232	ND	U	9.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1242	ND	U	9.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1248	14		9.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1254	ND	U	9.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1260	ND	U	9.8	2.1	1	06/02/10	06/08/10	KWG1005541	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	106	35-133	06/08/10	Acceptable

Comments: _____

Exception Report

Data File: W\CASHI\ACQU\DATA\GC09\DATA\060810.B\0608F007.D
 Lab ID: K1005244-003
 RunType: SMPL
 Matrix: MISC. SOLID

Date Acquired: 06/08/2010 20:12
 Date Quantitated: 06/09/2010 10:29
 Batch ID: KWG1005547
 Analysis Method: 8082
 MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: h. b. g. n.
 Secondary Review: u. c. w. w.

Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810_R.B\0608R007.D
Lab ID: K1005244-003
Run Type: SMPL
Matrix: MISC. SOLID

Date Acquired: 06/08/2010 20:12
Date Quantitated: 06/09/2010 10:30
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Sid MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: *[Signature]*

Secondary Review: *[Signature]*

Quantitation Report

Bottle ID:	Tier:	V	Matrix:	MISC. SOLID
Prod Code:	Collect Date:	05/19/2010	Receive Date:	05/21/2010

Analysis Lot:	Prep Lot:	KWG1005541	Report Group:	K1005244
Analysis Method:	Prep Method:	EPA 3541		
Prep Ref:	Prep Date:	06/02/2010		

Quant Method:	Calibration ID:	WCASH1\ACQU\DATA\GC09\DATA\060810.B\052710A_F.M	CAL9510
Title:	Report List ID:	Polychlorinated Biphenyls (PCBs)	LJ10990
MB Ref:	Method ID:	J:\GC09\DATA\060810.B\0608F005.D	MJ696
Quant based on Report List			

Data File #1:	Instrument:	GC09.i
Data File #2:	Vial:	6
Acqu Date:	Quant Date:	06/09/2010 10:29
Run Type:	Dilution:	1.0
Lab ID:	Soln Conc. Units:	ng/mL
Signal #1:	Signal #2:	DB-XLB

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	17.39 ^{0.00}	19.02 ^{-0.01}	581513	541680	98.50	105.53			106OK
%Recovery =					99OK	106OK	Limits =	35-133	

Target Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	Final Conc. Units:		ug/Kg #1	ug/Kg #2	Rpt
					ng/mL #1	ng/mL #2			
Aroclor 1016			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {4}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	

I: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL, also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound
 D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis
 *: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC09\DATA\060810.B\0608F007.D	Instrument:	GC09.i
Data File #2:	\\cash1\acqdata\GC09\data\060810_r.b\0608R007.D	Vial:	6
Acqu Date:	06/08/2010 20:12	Quant Date:	06/09/2010 10:29
Run Type:	SMPLE	Dilution:	1.0
Lab ID:	K1005244-003	Soln Conc. Units:	ng/mL
Signal #1:	DB-35MS	Signal #2:	DB-XLB

Target Compounds Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	73.85	73.09	14	14	14
Aroclor 1248 {1}	6.52	7.60	30061	14096m	72.94	70.51	14	14	
Aroclor 1248 {2}	7.16	7.71	12031	14043m	57.33	70.66	11	14	
Aroclor 1248 {3}	7.82	7.99	18674	13494m	74.38	67.44	15	13	
Aroclor 1248 {4}	8.19	8.84	29364	31438m	84.52	82.85	17	16	
Aroclor 1248 {5}	8.29	8.94	33970	20337m	80.09	73.99	16	14	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The +/- after Retention Time symbolize the direction of the RT shift

Prep Amount: 22.55 g Dilution: 1.0
 Prep Final Vol: 4 mL Unit Factor: 1
 Solids: 90.7 %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

1 Undetected at or above MDL.
 2 Analyte detected above MDL, but below MRL.
 3 Hit above MRL, also found in Method Blank.
 4 Analyte concentration above high point of ICAL.
 5 Presumptive evidence of compound.
 D Result from dilution
 m Manual integration performed
 d Compound manually deleted
 NR Analyte not reported from this analysis
 * Result fails acceptance criteria
 # Acceptance criteria not applicable
 ? Insufficient information to determine acceptance
 e Result >= MRL, but MRL less than low point of ICAL.
 c: check for co-elution

Data File: \\cash1\acqdata\GC09\data\060810.b\0608F007.D
 Report Date: 09-Jun-2010 10:29

Laboratory Name

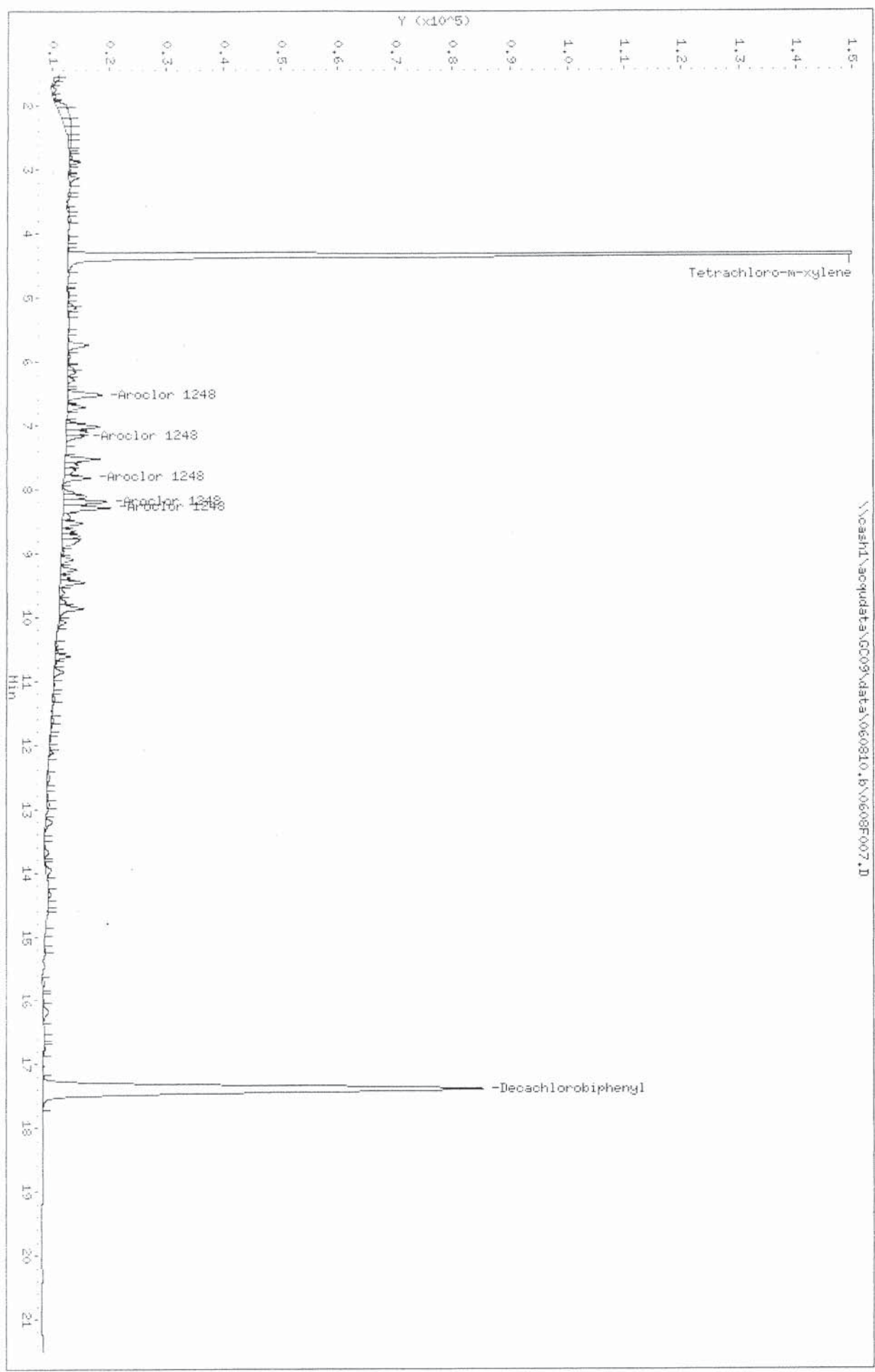
Sample #1 : \\cash1\acqdata\GC09\data\060810.b\0608F007.D
 Sample #2 : \\cash1\acqdata\GC09\data\060810_r.b\0608R007.D
 Inj Date : 08-JUN-2010 20:12
 Sample Info: K1005244-003 | D-4-16
 Misc Info : KELSO\SEMIVOA GC\8082-PCB_LL\05244003.H | F=4
 Cal Date : 09-JUN-2010 08:48
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\060810.b\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\060810_r.b\052710A_r.m
 Sub List #1 : ALL.SUB
 Sub List #2 : ALL.SUB
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.333	5.017	651130	587572	91.6	99.8		100.00
Aroclor 1248	6.523	7.603	30061	14096	72.9	70.5	80.00- 120.00	100.00
	7.163	7.707	12031	14043	57.3	70.7	39.24- 58.85	40.02
	7.817	7.993	18674	13494	74.4	67.4	43.38- 65.07	62.12
	8.190	8.843	29364	31438	84.5	82.8	66.78- 100.17	97.68
	8.287	8.943	33970	20337	80.1	74.0	84.10- 126.14	113.00
	Average of Peak Amounts =				73.8	73.1		
o,p'-DDT	17.387	19.017	581513	541680	98.5	106		100.00

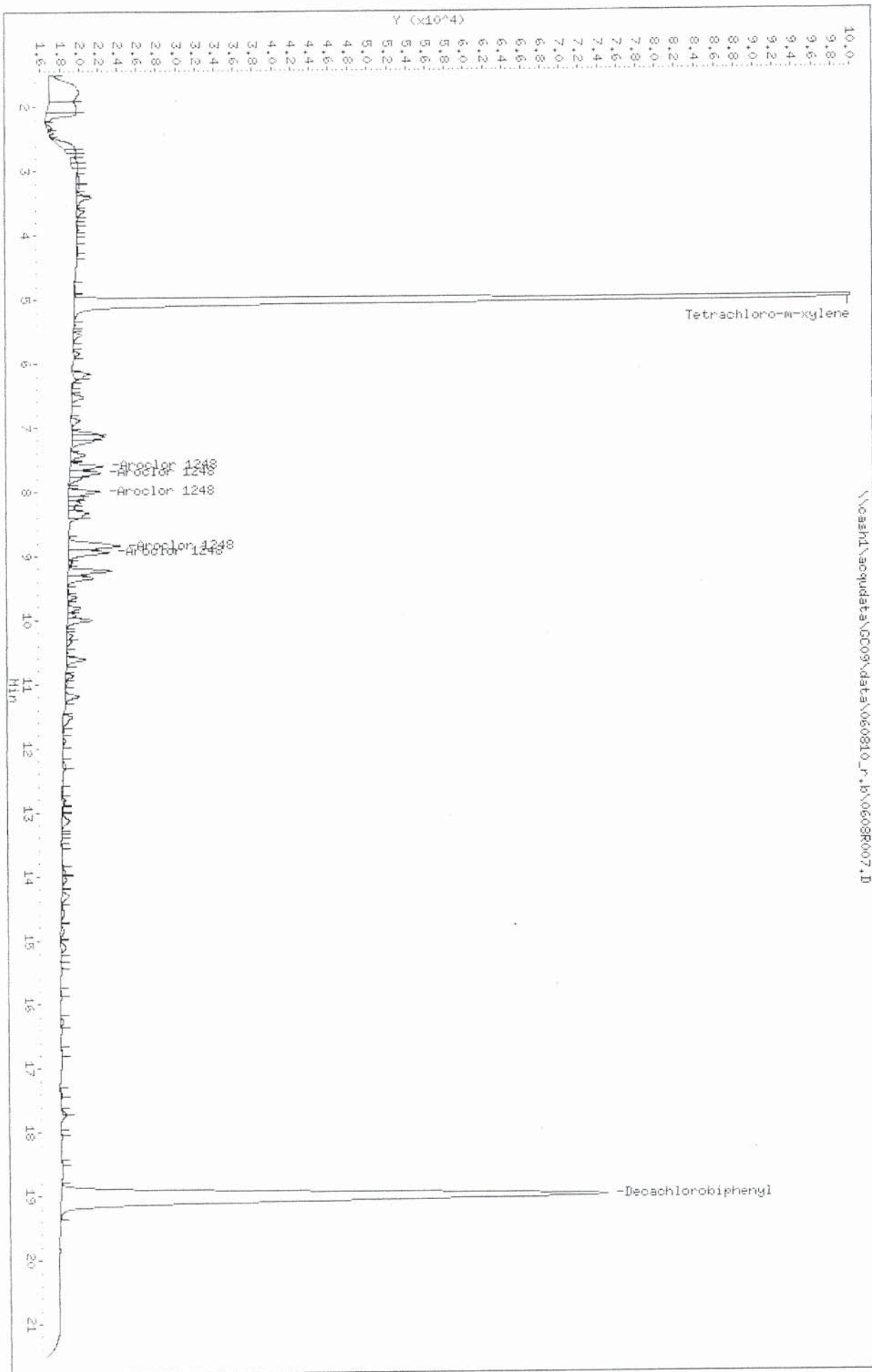
Data File: \\casha1\acq\data\GC09\data\060810.1\0608F007.D
Date: 08-JUN-2010 20:12
Client ID:
Sample Info: K1005244-003 | D-4-16
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



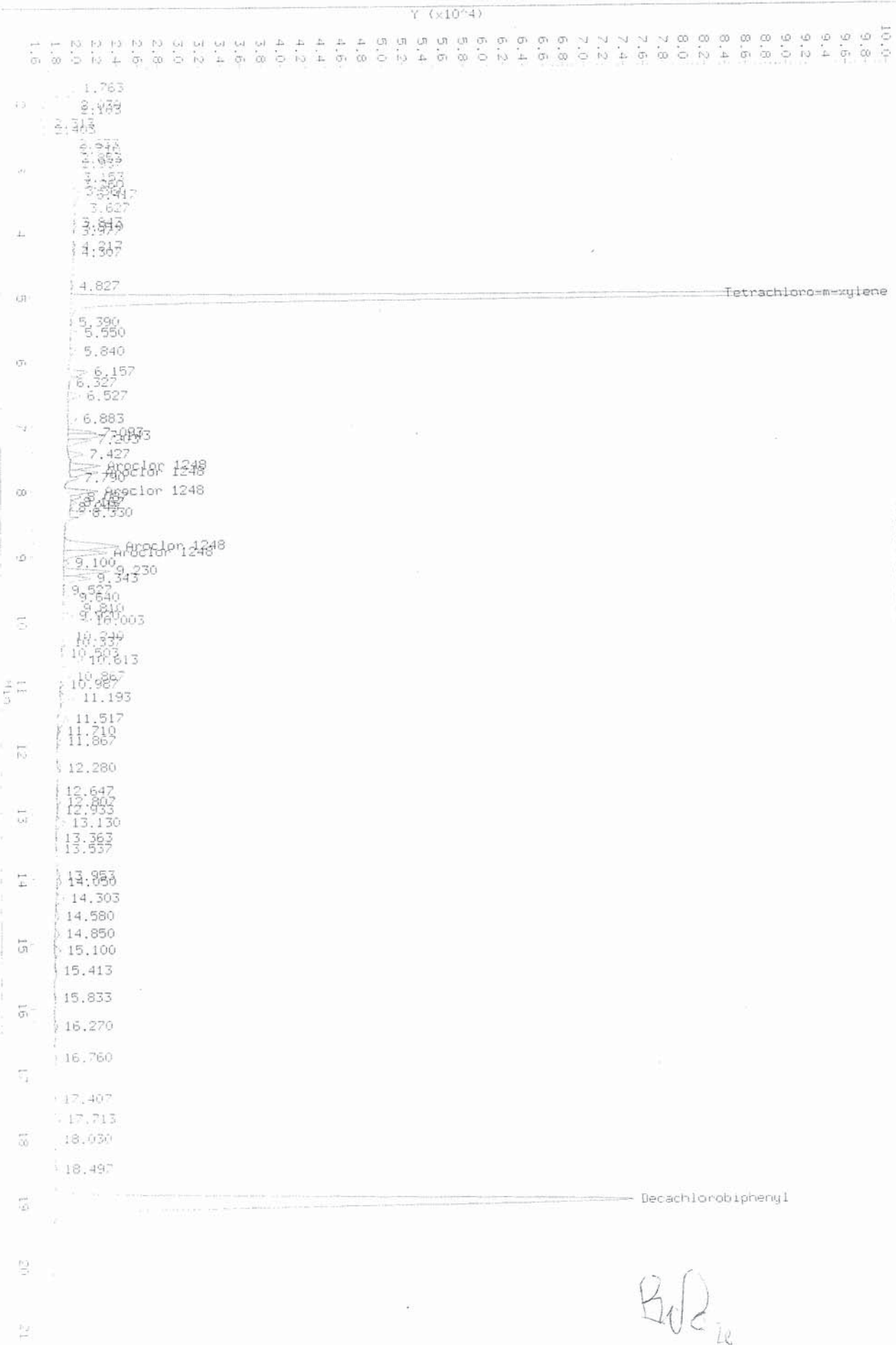
Data File: \\nasht\acq\data\GC09\data\060810_r.b\0608R007.D
Date : 08-JUN-2010 20:12
Client ID:
Sample Info: K1005244-003 | D-4-16
Column phase: DB-XLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Data File: \\casnut1\acq\data\GC09\data\060810_1.D\060809007.D
Injection Date: 08-JUN-2010 20:12
Instrument: GC09.1
Client Sample ID:

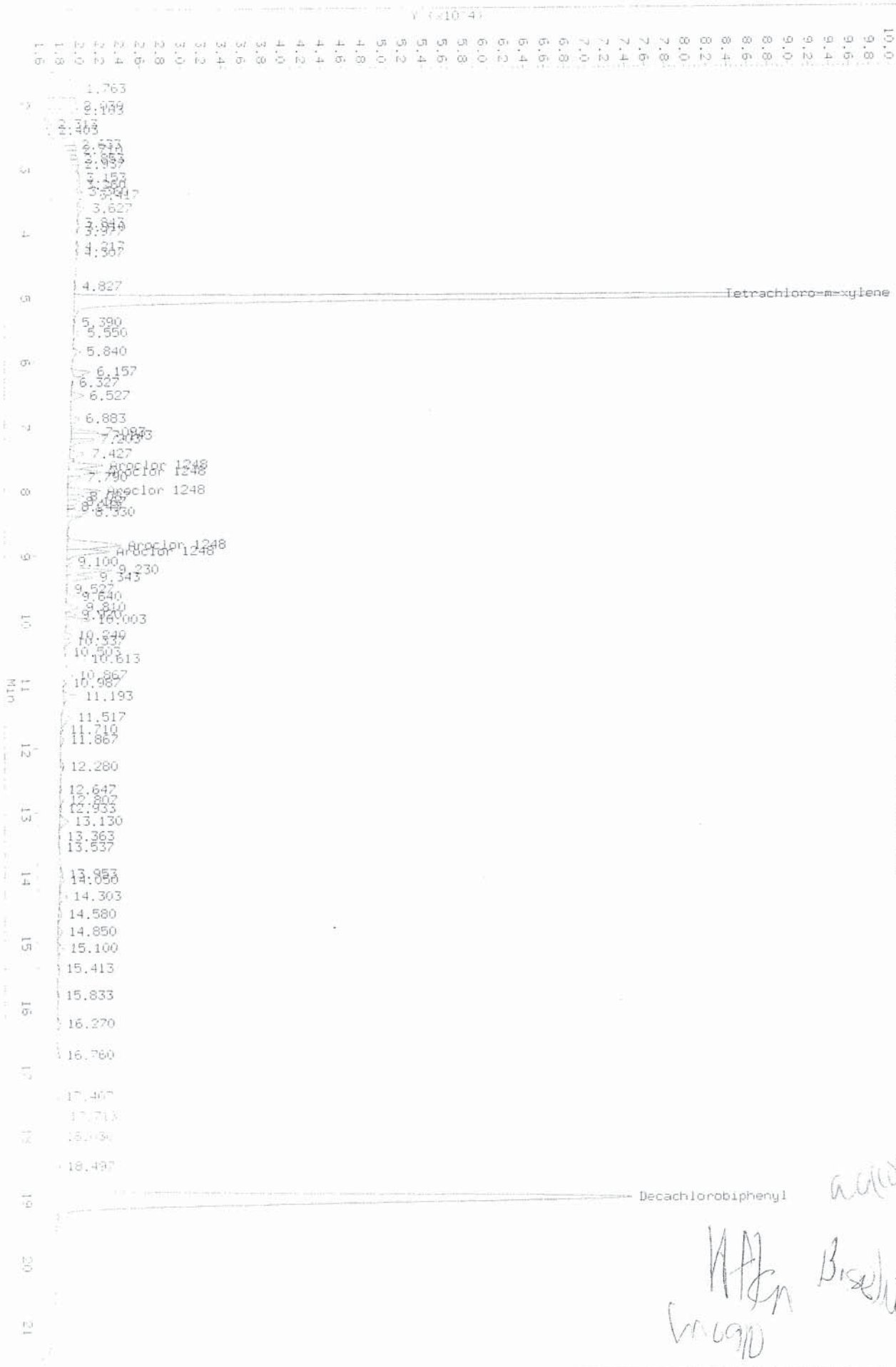
HP5890 GC Data: DATA.GC: 1.500 to 21.507 Min



BoD
ie

Data File: \Ncash1\acq\data\GC09\data\060810.L\06080907.D
 Injection Date: 08-JUN-2010 20:12
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.507 Min



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1005541-2
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	8.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1221	ND	U	18	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1232	ND	U	8.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1242	ND	U	8.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1248	ND	U	8.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1254	ND	U	8.8	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1260	ND	U	8.8	2.1	1	06/02/10	06/08/10	KWG1005541	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	78	35-133	06/08/10	Acceptable

Comments: _____

Exception Report

Data File: \\CASHI\ACQU\DATA\GC09\DATA\060810.B\0608F005.D
Lab ID: KWG1005541-2
RunType: MB
Matrix: MISC. SOLID

Date Acquired: 06/08/2010 19:19
Date Quantitated: 06/09/2010 10:28
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: WBP

Secondary Review: WBP

Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810_R.B\0608R005.D
Lab ID: KWG1005541-2
RunType: MB
Matrix: MISC. SOLID

Date Acquired: 06/08/2010 19:19
Date Quantitated: 06/09/2010 10:29
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: W. L. M.

Secondary Review: L. G. C.

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 8082 PCB_LL	Collect Date:	MISC. SOLID
		Receive Date: 06/08/2010

Analysis Lot: KWG1005547	Prep Lot: KWG1005541	Report Group:
Analysis Method: 8082	Prep Method: EPA 3541	
Prep Ref: 917272	Prep Date: 06/02/2010	

Quant Method: \CASH1\ACQUIDATA\GC09\DATA\060810.B\052710A_F.M	Calibration ID: CAL9510
Title:	Method ID: MJ696
MB Ref:	Quant based on Method

Data File #1: J:\GC09\DATA\060810.B\0608F005.D	Instrument: GC09.i
Data File #2: \cashi\acquadata\GC09\data\060810_r.b\0608R005.D	Vial: 4
Acqu Date: 06/08/2010 19:19	Quant Date: 06/09/2010 10:28
Run Type: MB	Dilution: 1.0
Lab ID: KWG1005541-2	Soln Conc. Units: ng/mL
Signal #1: DB-35MS	Signal #2: DB-XLB

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	4.33	5.02	447608	384158	62.99	65.24			65OK
			%Recovery =		63OK	65OK	Limits =	10-135	
Decachlorobiphenyl	17.39	19.02 ^{0.00}	424178	398568	71.85	77.65			78OK
			%Recovery =		72OK	78OK	Limits =	35-133	

Target Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	Final Conc. Units: ug/Kg Wet Weight		Rpt
							ug/Kg #1	ug/Kg #2	
Aroclor 1016			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1016 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0	0	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
 F: Analyte detected above MDL, but below MRL
 H: Hit above MRL, also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ? : Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC09\DATA\060810.B\0608F005.D	Instrument:	GC09.i
Data File #2:	\\cash1\acq\data\GC09\data\060810_r.b\0608R005.D	Vial:	4
Acqu Date:	06/08/2010 19:19	Quant Date:	06/09/2010 10:28
Run Type:	MB	Dilution:	1.0
Lab ID:	KWG1005541-2	Soln Conc. Units:	ng/mL
Signal #1:	DB-35MS	Signal #2:	DB-XLB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {5}			0	0	0.0000	0.0000	2.1U	2.1U	

The +/- after Retention Time symbolize the direction of the RT shift

Prep Amount: 22.78 g Dilution: 1.0
 Prep Final Vol: 4 mL Unit Factor: 1
 Solids: %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

- U Undetected at or above MDL
- † Analyte detected above MDL, but below MRL
- B Hit above MRL, also found in Method Blank
- E Analyte concentration above high point of ICAL
- N Presumptive evidence of compound

- D Result from dilution
- m Manual integration performed
- d Compound manually deleted
- NR Analyte not reported from this analysis

- * Result fails acceptance criteria
- # Acceptance criteria not applicable
- ? Insufficient information to determine acceptance
- e Result >= MRL, but MRL less than low point of ICAL
- c check for co-elution

Data File: \\cash1\acqdata\GC09\data\060810.b\0608F005.D
Report Date: 09-Jun-2010 10:28

Laboratory Name

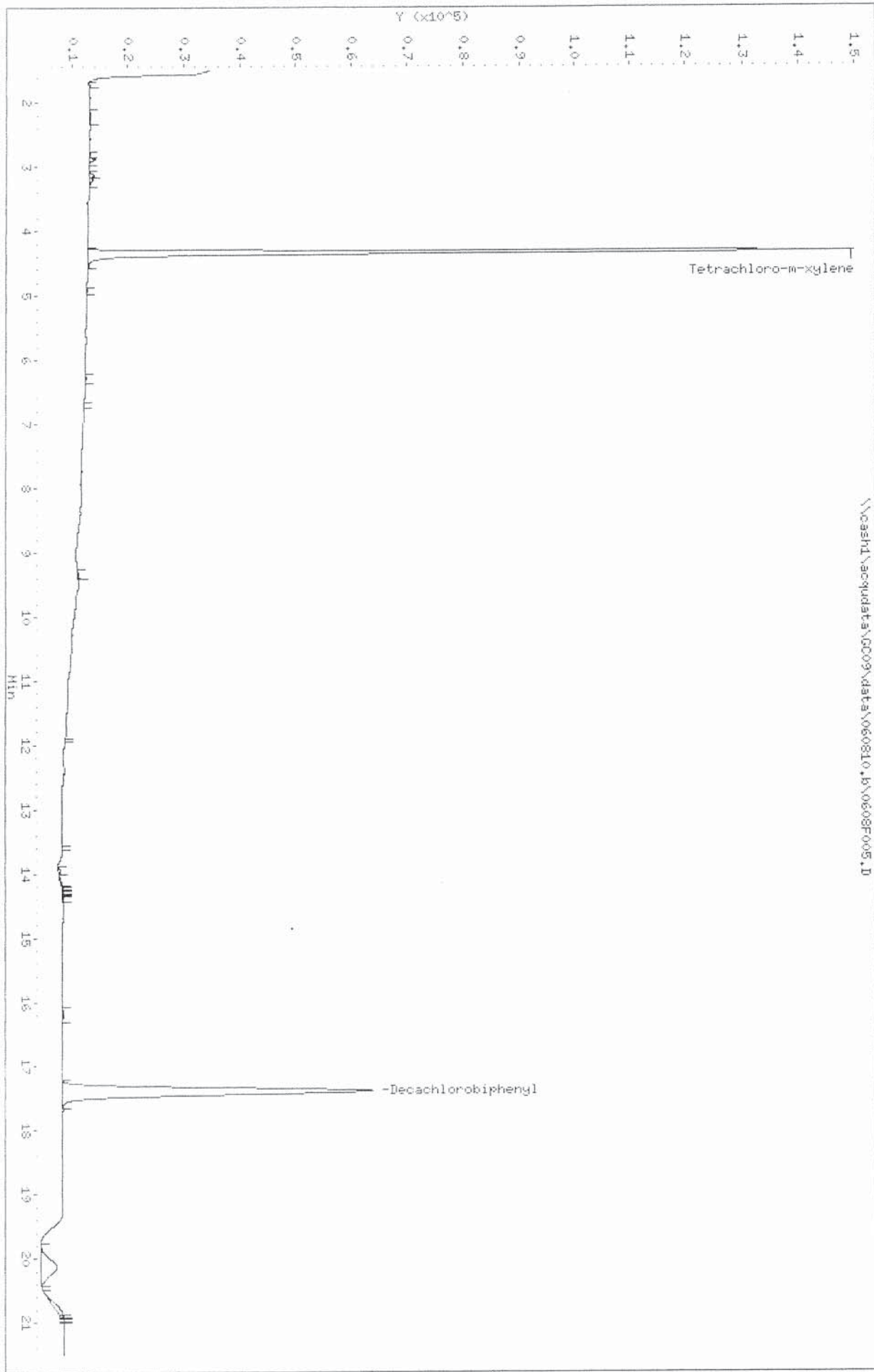
Sample #1 : \\cash1\acqdata\GC09\data\060810.b\0608F005.D
Sample #2 : \\cash1\acqdata\GC09\data\060810_r.b\0608R005.D
Inj Date : 08-JUN-2010 19:19
Sample Info: KWG1005541-2 | MB | 8082 PCB_LL | MISC. SOLID
Misc Info : SEMIVOA GC\W1005541\2-MB.H | F=4 D=1 A=22.78
Cal Date : 09-JUN-2010 08:48
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\060810.b\052710A_f.m
Method #2 : \\Cash1\Acqdata\GC09\data\060810_r.b\052710A_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro m-xylene	4.333	5.017	447608	384158	63.0	65.2		100.00
Decachlorobiphenyl	17.390	19.020	424178	398568	71.8	77.6		100.00

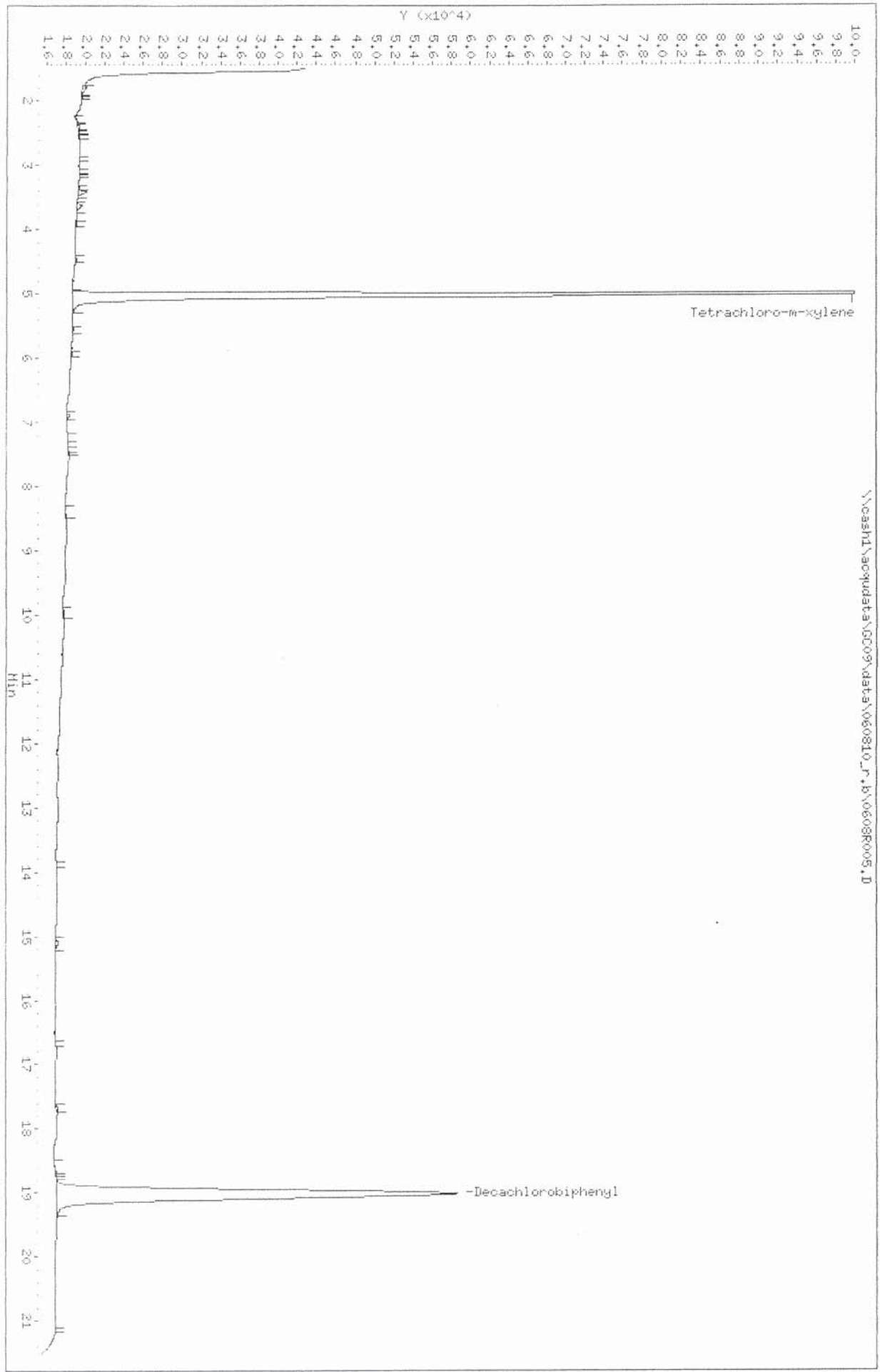
Data File: \\cashtl\acq\data\0009\data\060810.B\0608F005.D
Date: 08-JUN-2010 13:13
Client ID:
Sample Info: KMCI05541-2 | HB | 8082 PCB.LL | MISC. SOLID
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Data File: \\vaash1\acq\data\GC09\data\060810_Jr.B\0608R005.D
Date: 08-JUN-2010 19:19
Client ID:
Sample Info: KMC1005541-2 | HB | 8082 PCB.LL | HISC, SOLID
Column phase: DB-XLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: D-4-16MS
Lab Code: KWG1005541-3
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	219		9.7	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1221	ND	U	20	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1232	ND	U	9.7	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1242	ND	U	9.7	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1248	ND	U	9.7	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1254	ND	U	9.7	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1260	215		9.7	2.1	1	06/02/10	06/08/10	KWG1005541	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	103	35-133	06/08/10	Acceptable

Comments: _____

Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F008.D
 Lab ID: KWG1005541-3 -- K1005244-003MS
 RunType: MS
 Matrix: MISC. SOLID

Date Acquired: 06/08/2010 20:38
 Date Quantitated: 06/09/2010 10:29
 Batch ID: KWG1005547
 Analysis Method: 8082
 MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: *[Signature]*
 Secondary Review: *[Signature]*

Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810_R.B\0608R008.D
Lab ID: KWG1005541-3 -- K1005244-003MS
RunType: MS
Matrix: MISC. SOLID

Date Acquired: 06/08/2010 20:38
Date Quantitated: 06/09/2010 10:30
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 8082 PCB_LL	Collect Date:	MISC. SOLID
		Receive Date: 06/08/2010
Analysis Lot: KWG1005547	Prep Lot: KWG1005541	Report Group:
Analysis Method: 8082	Prep Method: EPA 3541	
Prep Ref: 917273	Prep Date: 06/02/2010	
Quant Method: \\CASHI\ACQ\DATA\GC09\DATA\060810.B\052710A_F.M	Calibration ID: CAL9510	
Title:	Method ID: MJ696	
MB Ref: J:\GC09\DATA\060810.B\0608F005.D	Quant based on Method	
Data File #1: J:\GC09\DATA\060810.B\0608F008.D	Instrument: GC09.i	
Data File #2: \\cash\acq\data\GC09\data\060810_r.b\0608R008.D	Vial: 7	
Acqu Date: 06/08/2010 20:38	Quant Date: 06/09/2010 10:29	Dilution: 1.0
Run Type: MS	Soln Conc. Units: ng/mL	
Lab ID: KWG1005541-3 -- K1005244-003MS		
Signal #1: DB-35MS	Signal #2: DB-X1.B	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	Limits =		Rpt	
Tetrachloro-m-xylene	4.33	5.02	642771	577056	90.46	97.99	900OK	98OK	10-135	98OK
			%Recovery =		900OK	98OK				
Decachlorobiphenyl	17.39	19.02 ^{-0.01}	566222	527067	95.91	102.68	96OK	103OK	35-133	103OK
			%Recovery =		96OK	103OK				

Target Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	Final Conc. Units: ug/Kg Dry Weight		Rpt
							ug/Kg #1	ug/Kg #2	
Aroclor 1016			0	0	1,110	1,134	215	219	219
Aroclor 1016 {1}	6.16 ^{0.00}	6.53	149695	204802	1,057	1,118	205	216	
Aroclor 1016 {2}	6.71	7.14 ^{0.00}	311457	352426	1,088	1,090	211	211	
Aroclor 1016 {3}	7.01 ^{0.00}	7.43 ^{0.00}	246779	185890	1,014	1,177	196	228	
Aroclor 1016 {4}	7.52	7.60	227969	146599	1,100	1,122	213	217	
Aroclor 1016 {5}	7.82 ^{0.00}	7.71	199113	171398	1,291	1,162	250	225	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

1) Undetected at or above MDL
 F Analyte detected above MDL, but below MRL
 B Hit above MRL, also found in Method Blank
 E Analyte concentration above high point of ICAL
 7) Presumptive evidence of compound

D Result from dilution
 m Manual integration performed
 ‡ Compound manually deleted
 NR Analyte not reported from this analysis

* Result fails acceptance criteria
 # Acceptance criteria not applicable
 ? Insufficient information to determine acceptance
 e Result <= MRL, but MRL less than low point of ICAL
 c check for co-elution

Data File #1:	J:\GC09\DATA\060810.B\0608F008.D	Instrument:	GC09.i
Data File #2:	\\wash1\acquadata\GC09\data\060810_r_b\0608R008.D	Vial:	7
Acqu Date:	06/08/2010 20:38	Quant Date:	06/09/2010 10:29
Run Type:	MS	Dilution:	1.0
Lab ID:	KWG1005541-3 -- K1005244-003MS	Soln Conc. Units:	ng/mL
Signal #1:	DB-35MS	Signal #2:	DB-XLB

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	965.95	1,112	187	215	215
Aroclor 1260 {1}	9.47	10.34	281136	284961	929.88	1,027	180	199	
Aroclor 1260 {2}	9.75 ^{0.00}	10.87 ^{0.00}	346804	310728	937.88	1,047	182	203	
Aroclor 1260 {3}	10.08	11.52 ^{0.00}	419823	366027	927.10	983.65	179	190	
Aroclor 1260 {4}	10.85 ^{0.00}	12.28 ^{0.00}	388841	298377	897.59	1,267	174	245	
Aroclor 1260 {5}	12.12 ^{0.00}	13.11 ^{0.00}	649374	542898	1,137	1,235	220	239	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The +/- after Retention Time symbolize the direction of the RT shift

Prep Amount: 22.78 g Dilution: 1.0
 Prep Final Vol: 4 mL Unit Factor: 1
 Solids: 90.7 %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

- U: Undetected at or above MDL
- F: Analyte detected above MDL, but below MRL
- B: Hit above MRL, also found in Method Blank
- E: Analyte concentration above high point of ICAL
- N: Presumptive evidence of compound

- D: Result from dilution
- m: Manual integration performed
- d: Compound manually deleted
- NR: Analyte not reported from this analysis

- *: Result fails acceptance criteria
- #: Acceptance criteria not applicable
- ?: Insufficient information to determine acceptance
- e: Result >= MRL, but MRL less than low point of ICAL
- c: check for co-elution

Laboratory Name

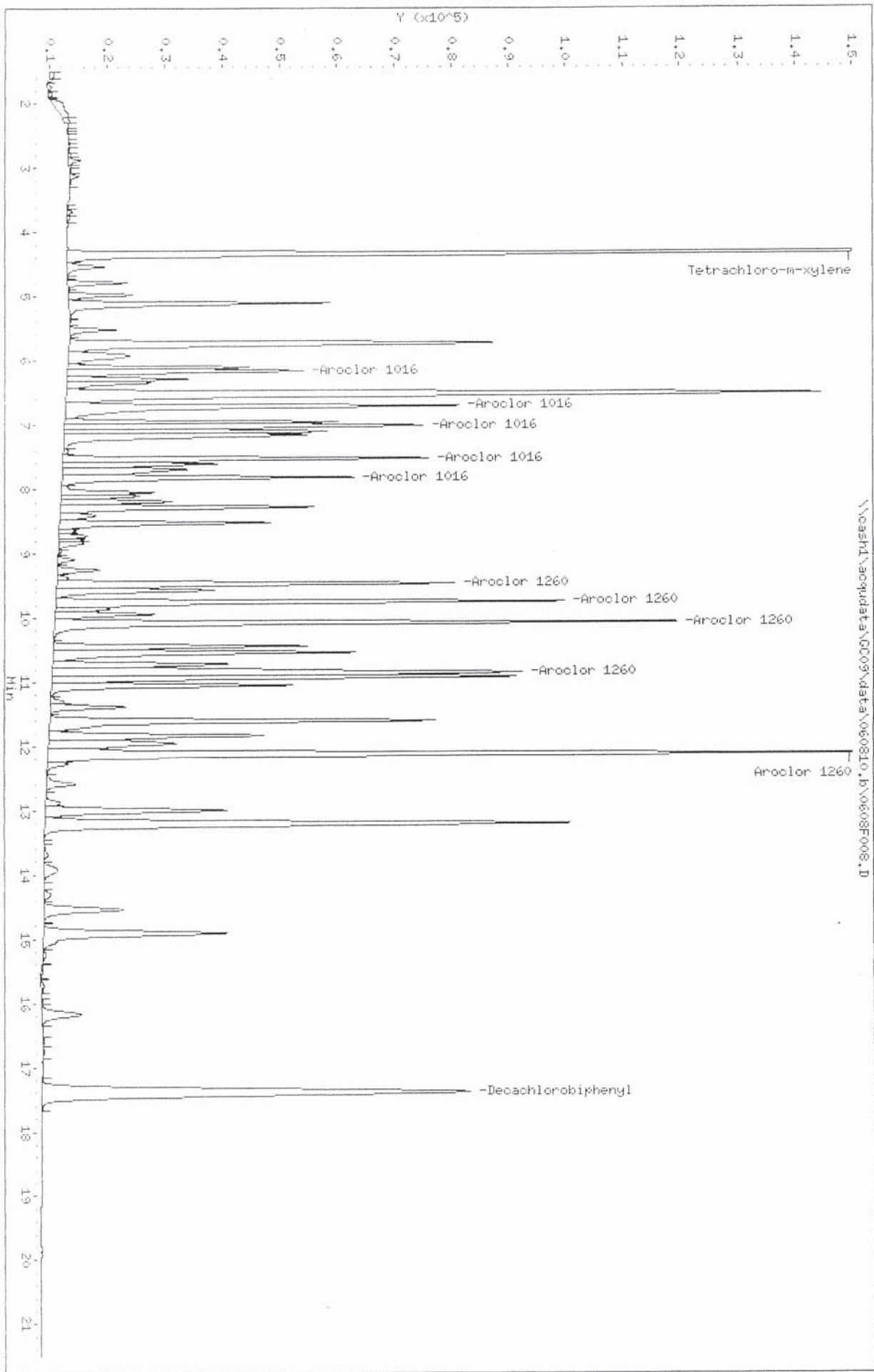
Sample #1 : \\cash1\acqdata\GC09\data\060810.b\0608F008.D
 Sample #2 : \\cash1\acqdata\GC09\data\060810_r.b\0608R008.D
 Inj Date : 08-JUN-2010 20:38
 Sample Info: KWG1005541-3 | K1005244-003MS | 8082 PCB_LL
 Misc Info : SEMIVOA GC\W1005541\3-MS.H | F=4 D=1 A=22.78
 Cal Date : 09-JUN-2010 08:48
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\060810.b\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\060810_r.b\052710A_r.m
 Sub List #1 : ALL.SUB
 Sub List #2 : ALL.SUB
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro m-xylene	4.333	5.017	642771	577056	90.4	98.0		100.00
Aroclor 1016	6.163	6.527	149695	204802	1060	1120	80.00- 120.00	100.00
	6.707	7.143	311457	352426	1090	1090	164.25- 246.38	208.06
	7.013	7.427	246779	185890	1010	1180	130.18- 195.27	164.85
	7.523	7.603	227969	146599	1100	1120	112.90- 169.35	152.29
	7.817	7.707	199113	171398	1290	1160	87.15- 130.73	133.01
	Average of Peak Amounts =				1110	1130		
Aroclor 1260	9.470	10.343	281136	284961	930	1030	80.00- 120.00	100.00
	9.750	10.870	346804	310728	938	1050	99.43- 149.15	123.36
	10.077	11.520	419823	366027	927	984	120.99- 181.49	149.33
	10.853	12.283	388841	298377	898	1270	123.90- 185.85	138.31
	12.120	13.113	649374	542898	1140	1240	165.84- 248.76	230.98
	Average of Peak Amounts =				967	1110		
Decachlorobiphenyl	17.390	19.017	566222	527067	95.9	103		100.00

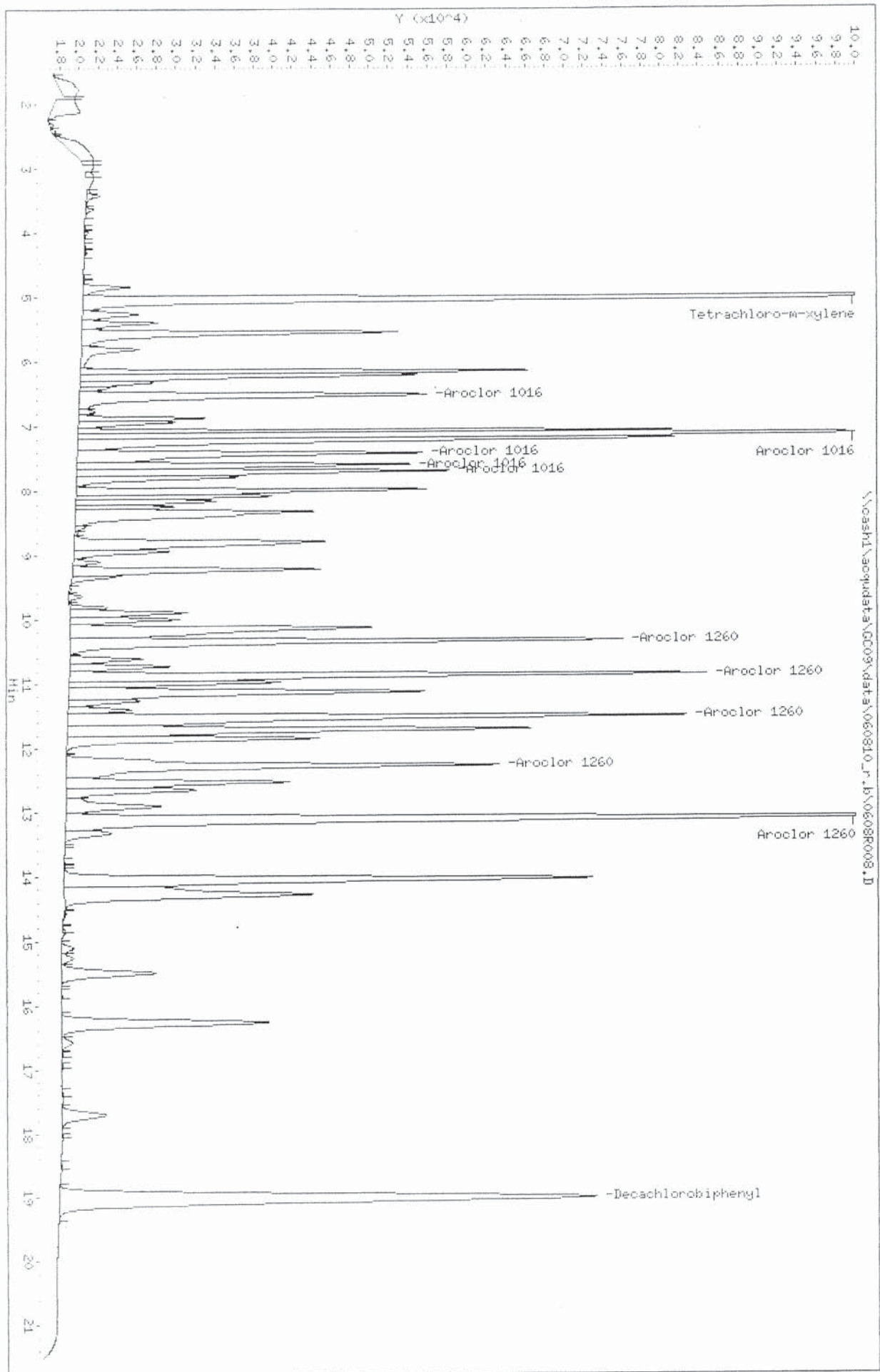
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 Date: 08-JUN-2010 20:38
 Client ID:
 Sample Info: KMCI005541-3 | K1005244-003HS | 8082 PCB-LL
 Column phase: DB-35HS

Instrument: 0009.1
 Operator: LHarris
 Column diameter: 0.53



Data File: \voashd\voapdata\0009\data\060810_r_b\0608R008.D
 Date: 08-JUN-2010 20:38
 Client ID:
 Sample Info: KMG1005541-3 | K1005244-003HS | 8082 PCB_LL
 Column phase: DB-XLB

Instrument: 0009.1
 Operator: LHarris
 Column diameter: 0.53



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: D-4-16DMS
Lab Code: KWG1005541-4
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	188	9.9	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1221	ND U	20	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1232	ND U	9.9	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1242	ND U	9.9	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1248	ND U	9.9	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1254	ND U	9.9	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1260	183	9.9	2.1	1	06/02/10	06/08/10	KWG1005541	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	87	35-133	06/08/10	Acceptable

Comments: _____

Exception Report

Data File: \CASHI\ACQU\DATA\GC09\DATA\060810.B\0608F009.D
 Lab ID: KWG1005541-4 -- K1005244-003DMS
 RunType: DMS
 Matrix: MISC. SOLID

Date Acquired: 06/08/2010 21:04
 Date Quantitated: 06/09/2010 10:29
 Batch ID: KWG1005547
 Analysis Method: 8082
 MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: h/bm

Secondary Review: u6(c01w)

Exception Report

Data File: \\CASHI\ACQU\DATA\GC09\DATA\060810_R.B\0608R009.D
Lab ID: KWG1005541-4 -- K1005244-003DMS
RunType: DMS
Matrix: MISC. SOLID

Date Acquired: 06/08/2010 21:04
Date Quantitated: 06/09/2010 10:30
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: W. K. O.

Secondary Review: W. K. O.

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 8082 PCB_LL	Collect Date:	MISC, SOLID
		Receive Date: 06/08/2010

Analysis Lot: KWG1005547	Prep Lot: KWG1005541	Report Group:
Analysis Method: 8082	Prep Method: EPA 3541	
Prep Ref: 917274	Prep Date: 06/02/2010	

Quant Method: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\052710A_F.M	Calibration ID: CAL9510
Title:	Method ID: MJ696
MB Ref: J:\GC09\DATA\060810.B\0608F005.D	Quant based on Method

Data File #1: J:\GC09\DATA\060810.B\0608F009.D	Instrument: GC09.i
Data File #2: \\cash1\acquadata\GC09\data\060810_r_b\0608R009.D	Vial: 8
Acqu Date: 06/08/2010 21:04	Quant Date: 06/09/2010 10:29
Run Type: DMS	Dilution: 1.0
Lab ID: KWG1005541-4 -- K1005244-003DMS	Soln Conc. Units: ng/mL
Signal #1: DB-35MS	Signal #2: DB-XLB

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	Final Conc. Units: ug/Kg Dry Weight		Rpt
Tetrachloro-m-xylene	4.33	5.02	528135	462740	74.33	78.58	74OK	79OK	79OK
			%Recovery =		74OK	79OK	Limits =	10-135	
Decachlorobiphenyl	17.38 ^{-0.01}	19.01 ^{-0.01}	491950	447392	83.33	87.16	83OK	87OK	87OK
			%Recovery =		83OK	87OK	Limits =	35-133	

Target Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	910.65	952.90	180	188	188
Aroclor 1016 {1}	6.16 ^{0.00}	6.53	122841	174689	867.53	953.69	171	188	
Aroclor 1016 {2}	6.71	7.14 ^{0.00}	257995	294583	900.89	910.92	178	180	
Aroclor 1016 {3}	7.01 ^{0.00}	7.43 ^{0.00}	205400	155562	844.24	985.04	167	195	
Aroclor 1016 {4}	7.52	7.60	187829	123512	906.72	945.17	179	187	
Aroclor 1016 {5}	7.82 ^{0.00}	7.70 ^{0.00}	159421	143011	1034	969.69	204	192	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
 I Analyte detected above MDL, but below MRL
 B Hit above MRL, also found in Method Blank
 F Analyte concentration above high point of ICAL
 N Presumptive evidence of compound

D Result from dilution
 m Manual integration performed
 d Compound manually deleted
 NR Analyte not reported from this analysis

* Result fails acceptance criteria
 # Acceptance criteria not applicable
 ? Insufficient information to determine acceptance
 e Result >= MRL, but MRL less than low point of ICAL
 c check for co-elution

Data File #1:	J:\GC09\DATA\060810.B\0608F009.D	Instrument:	GC09.i
Data File #2:	\\cash1\acquadata\GC09\data\060810_r.b\0608R009.D	Vial:	8
Acqu Date:	06/08/2010 21:04	Quant Date:	06/09/2010 10:29
Run Type:	DMS	Dilution:	1.0
Lab ID:	KWG1005541-4 -- K1005244-003DMS	Soln Conc. Units:	ng/mL
Signal #1:	DB-35MS	Signal #2:	DB-XLB

Target Compounds		Final Conc. Units:		ug/Kg Dry Weight						
Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U	
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U	
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1260			0	0	814.19	927.14	161	183	183	
Aroclor 1260 {1}	9.47	10.34 ^{0.00}	235953	240771	780.43	867.84	154	171		
Aroclor 1260 {2}	9.75 ^{0.00}	10.87 ^{0.00}	293217	259856	792.96	875.57	157	173		
Aroclor 1260 {3}	10.07 ^{0.00}	11.52 ^{0.00}	355446	304734	784.93	818.93	155	162		
Aroclor 1260 {4}	10.85 ^{-0.01}	12.28 ^{0.00}	328849	246561	759.10	1.047	150	207		
Aroclor 1260 {5}	12.12 ^{-0.01}	13.11 ^{-0.01}	544445	451119	953.53	1.026	188	203		
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U		
Aroclor 1268 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U		

The +/- after Retention Time symbolize the direction of the RT shift

Prep Amount: 22.33 g Dilution: 1.0
 Prep Final Vol: 4 mL Unit Factor: 1
 Solids: 90.7 %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

f: Undetected at or above MDL
 F: Analyte detected above MDL, but below MRL
 B: Hit above MRL, also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound
 D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis
 *: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Laboratory Name

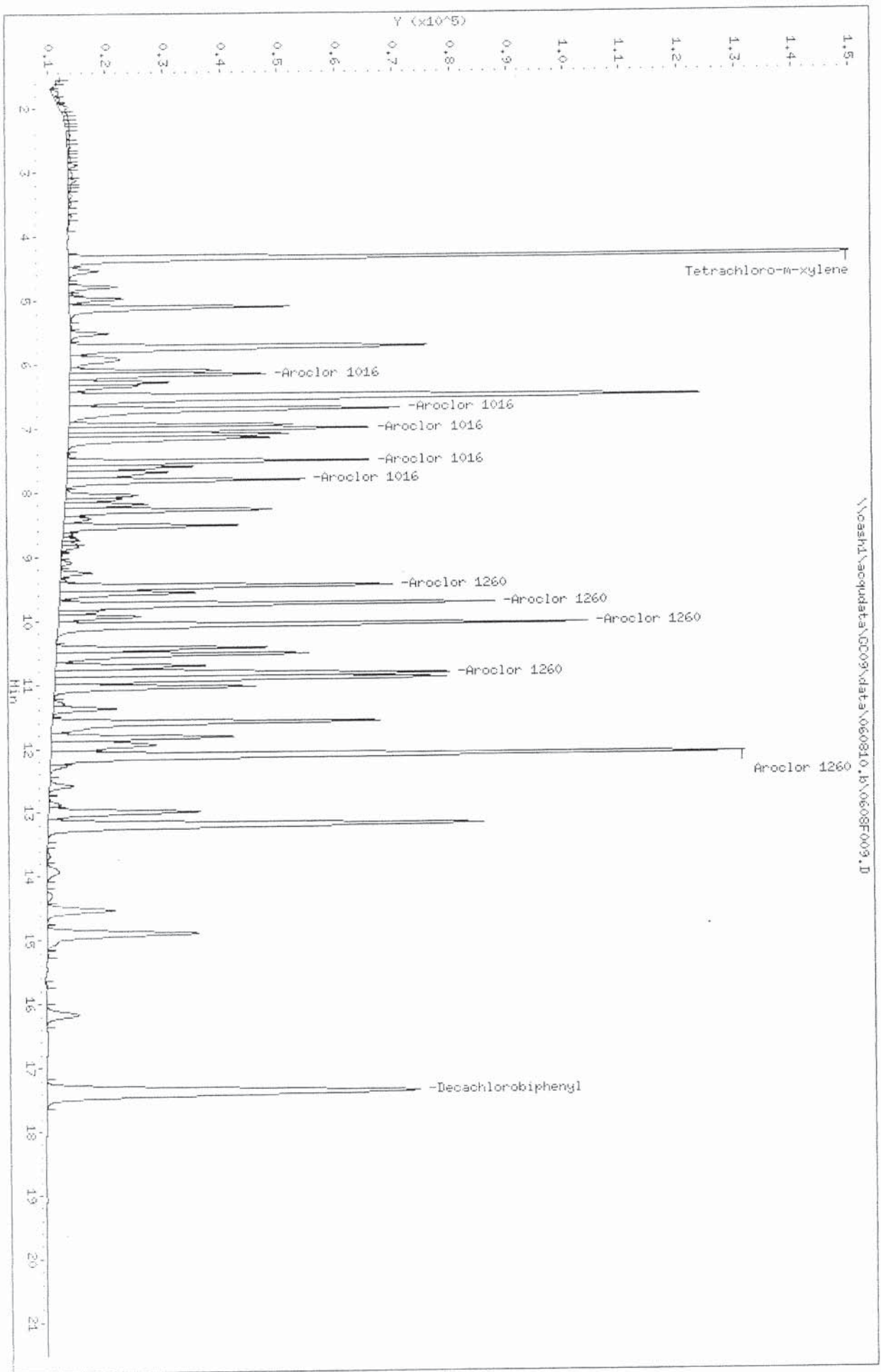
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 Sample #2 : \\cash1\acqdata\GC09\data\060810_r.b\0608R009.D
 Inj Date : 08-JUN-2010 21:04
 Sample Info: KWG1005541-4 | K1005244-003DMS | 8082 PCB_LL
 Misc Info : SEMIOVA GC\W1005541\4-DMS.H | F=4 D=1 A=22.33
 Cal Date : 09-JUN-2010 08:48
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\060810.b\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\060810_r.b\052710A_r.m
 Sub List #1 : ALL.SUB
 Sub List #2 : ALL.SUB
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro m-xylene	4.333	5.017	528135	462740	74.3	78.6		100.00
Aroclor 1616	6.163	6.527	122841	174689	868	954	80.00- 120.00	100.00
	6.707	7.143	257995	294583	901	911	164.25- 246.38	210.02
	7.011	7.427	205400	155562	844	985	130.18- 195.27	167.21
	7.523	7.603	187829	123512	907	945	112.90- 169.35	152.90
	7.817	7.703	159421	143011	1030	970	87.15- 130.73	129.78
	Average of Peak Amounts =				910	953		
Aroclor 1260	9.470	10.340	235953	240771	780	868	80.00- 120.00	100.00
	9.750	10.870	293217	259856	793	876	99.43- 149.15	124.27
	10.073	11.520	355446	304734	785	819	120.99- 181.49	150.64
	10.850	12.283	328849	246561	759	1050	123.90- 185.85	139.37
	12.117	13.110	544445	451119	954	1030	165.84- 248.76	230.74
	Average of Peak Amounts =				814	929		
Decachlorobiphenyl	17.383	19.013	491950	447392	83.3	87.2		100.00

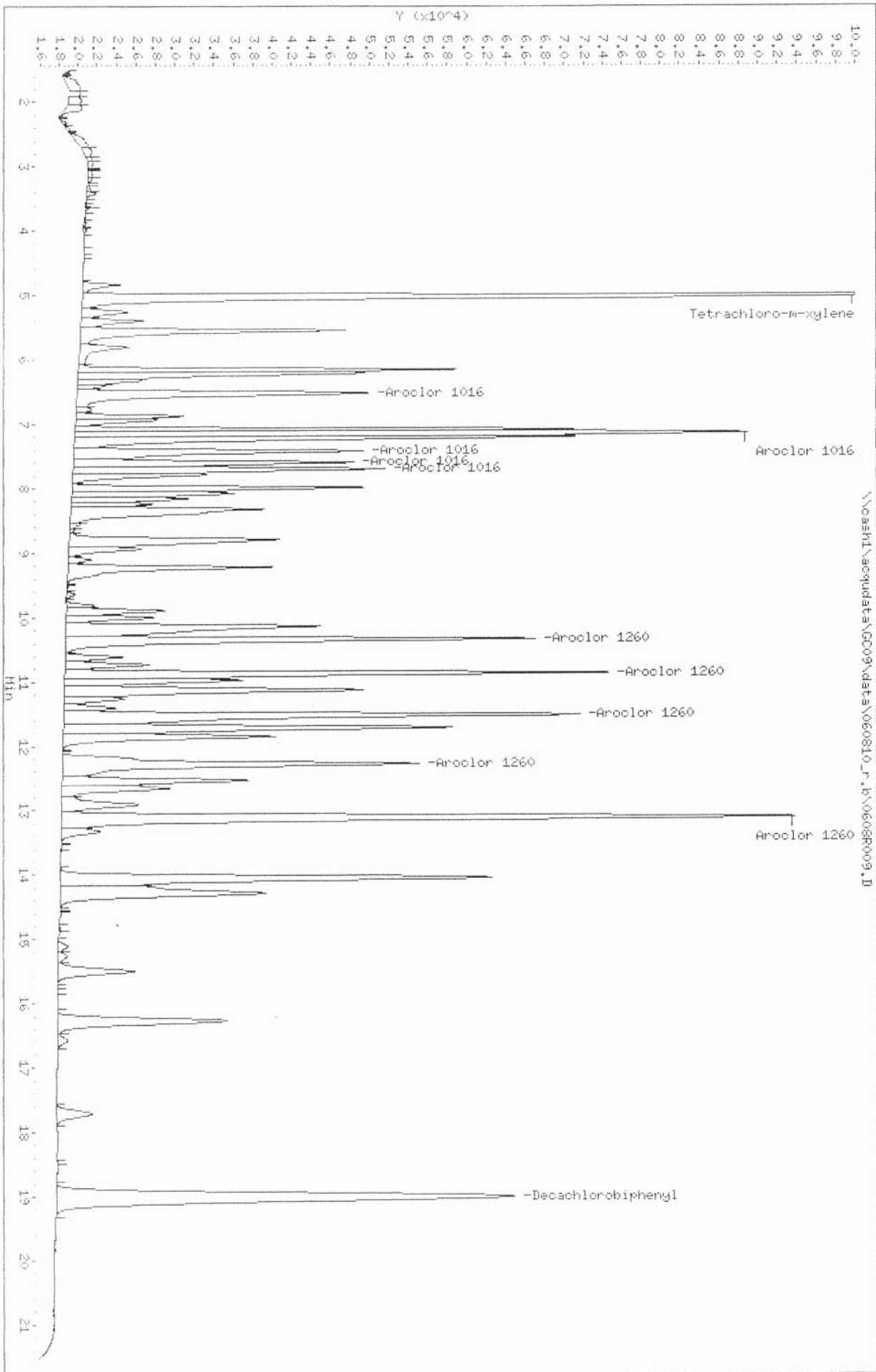
Data File: \\nasht\acq\data\GC09\data\060810.B\0608F009.D
Date: 08-JUN-2010 21:04
Client ID:
Sample Info: KMC1005541-4 | K1005244-003DMS | 8082 PCB_LL
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Data File: \\ncash1\ncsqdata\GC09\data\060810_r.b\0608R009.D
 Date : 08-JUN-2010 21:04
 Client ID:
 Sample Info: KMG100541-4 | K1005244-002DMS | 8082 PCB.LL
 Column phase: DB-XLB

Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Lab Control Sample
Lab Code: KWG1005541-1
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	203		10	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1221	ND	U	20	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1232	ND	U	10	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1242	ND	U	10	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1248	ND	U	10	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1254	ND	U	10	2.1	1	06/02/10	06/08/10	KWG1005541	
Aroclor 1260	204		10	2.1	1	06/02/10	06/08/10	KWG1005541	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	93	35-133	06/08/10	Acceptable

Comments: _____

Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F006.D
 Lab ID: KWG1005541-1
 RunType: LCS
 Matrix: MISC. SOLID

Date Acquired: 06/08/2010 19:45
 Date Quantitated: 06/09/2010 10:28
 Batch ID: KWG1005547
 Analysis Method: 8082
 MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: W. B. O.

Secondary Review: A. C. O.

Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810_R.B\0608R006.D
Lab ID: KWG1005541-1
RunType: LCS
Matrix: MISC. SOLID

Date Acquired: 06/08/2010 19:45
Date Quantitated: 06/09/2010 10:29
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Calibration Verification Ave %D	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Calibration Verification Ave %D (Closing)	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: ambard

Secondary Review: ce gellulis

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 8082 PCB_LL	Collect Date:	MISC. SOLID
		Receive Date: 06/08/2010

Analysis Lot: KWG1005547	Prep Lot: KWG1005541	Report Group:
Analysis Method: 8082	Prep Method: EPA 3541	
Prep Ref: 917271	Prep Date: 06/02/2010	

Quant Method: \\CASH1\ACQUIDATA\GC09\DATA\060810.B\052710A_F.M	Calibration ID: CAL9510
Title:	
MB Ref: \\GC09\DATA\060810.B\0608F005.D	Method ID: MJ696
	Quant based on Method

Data File #1: \\GC09\DATA\060810.B\0608F006.D	Instrument: GC09.i
Data File #2: \\cash1\acquadata\GC09\data\060810_r.b\0608R006.D	Vial: 5
Acqu Date: 06/08/2010 19:45	Quant Date: 06/09/2010 10:28
Run Type: LCS	Dilution: 1.0
Lab ID: KWG1005541-1	Soln Conc. Units: ng/mL
Signal #1: DB-35MS	Signal #2: DB-XLB

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	Final Conc. Units: ug/Kg Wet Weight		Rpt
Tetrachloro-m-xylene	4.33	5.02	591845	518809	83.29	88.10			88OK
			%Recovery =		83OK	88OK	Limits =	10-135	
Decachlorobiphenyl	17.39	19.02 ^{0.00}	514364	476905	87.13	92.91			93OK
			%Recovery =		87OK	93OK	Limits =	35-133	

Target Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	1,005	1,014	201	203	203
Aroclor 1016 {1}	6.16 ^{0.00}	6.53	138279	183793	976.56	1,003	195	201	
Aroclor 1016 {2}	6.71	7.14 ^{0.00}	291435	310282	1,018	959.46	204	192	
Aroclor 1016 {3}	7.02	7.43 ^{0.00}	219819	170835	903.50	1,082	181	216	
Aroclor 1016 {4}	7.52	7.60	200038	130192	965.66	996.29	193	199	
Aroclor 1016 {5}	7.82	7.71	178814	151789	1,160	1,029	232	206	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

f: f: undetected at or above MDL
 F: Analyte detected above MDL, but below MRL
 B: not above MRL, also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC09\DATA\060810.B\0608F006.D	Instrument:	GC09.i
Data File #2:	\\wash1\acq\data\GC09\data\060810_r.b\0608R006.D	Vial:	5
Acqu Date:	06/08/2010 19:45	Quant Date:	06/09/2010 10:28
Run Type:	LCS	Dilution:	1.0
Lab ID:	KWG1005541-1	Soln Conc. Units:	ng/mL
Signal #1:	DB-35MS	Signal #2:	DB-XLB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	896.32	1.021	179	204	204
Aroclor 1260 {1}	9.47	10.34	251339	265246	831.32	956.06	166	191	
Aroclor 1260 {2}	9.75 ^{0.00}	10.87 ^{0.00}	334314	285279	904.10	961.24	181	192	
Aroclor 1260 {3}	10.08	11.52	390006	333213	861.25	895.46	172	179	
Aroclor 1260 {4}	10.85 ^{0.00}	12.28 ^{0.00}	353725	271578	816.53	1.153	163	231	
Aroclor 1260 {5}	12.12 ^{0.00}	13.12	610026	499913	1.068	1.137	214	227	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The +/- after Retention Time symbolize the direction of the RT shift

Prep Amount: 20.00 g Dilution: 1.0
 Prep Final Vol: 4 mL Unit Factor: 1
 Solids: %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
 J Analyte detected above MDL, but below MRL
 B Hit above MRL also found in Method Blank
 E Analyte concentration above high point of ICAI
 N Presumptive evidence of compound

D Result from dilution
 m Manual integration performed
 d Compound manually deleted
 NR Analyte not reported from this analysis

* Result fails acceptance criteria
 # Acceptance criteria not applicable
 ? Insufficient information to determine acceptance
 e Result >= MRL, but MRL less than low point of ICAI
 c check for co-elution

Data File: \\cash1\acqdata\GC09\data\060810.b\0608F006.D
 Report Date: 09-Jun-2010 10:28

Laboratory Name

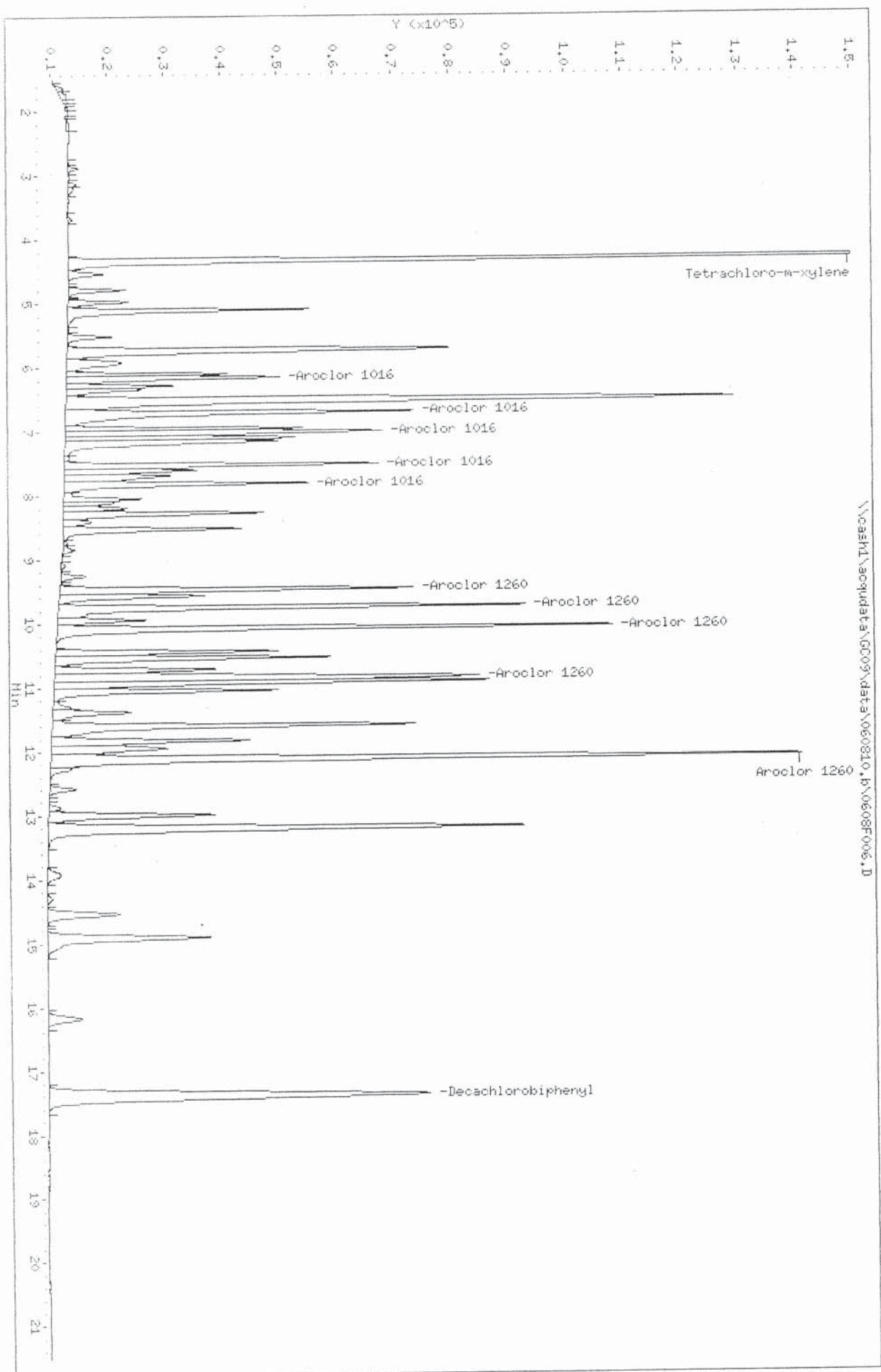
Sample #1 : \\cash1\acqdata\GC09\data\060810.b\0608F006.D
 Sample #2 : \\cash1\acqdata\GC09\data\060810_r.b\0608R006.D
 Inj Date : 08-JUN-2010 19:45
 Sample Info: KWG1005541-1 | LCS | 8082 PCB_LL | MISC. SOLI
 Misc Info : SEMIVOA GC\W1005541\1-LCS.H | F=4 D=1 A=20.00
 Cal Date : 09-JUN-2010 08:48
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\060810.b\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\060810_r.b\052710A_r.m
 Sub List #1 : ALL.SUB
 Sub List #2 : ALL.SUB
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.333	5.017	591845	518809	83.3	88.1		100.00
Aroclor 1016	6.163	6.527	138279	183793	976	1000	80.00- 120.00	100.00
	6.707	7.143	291435	310282	1020	959	164.25- 246.38	210.76
	7.017	7.427	219819	170835	904	1080	130.18- 195.27	158.97
	7.523	7.603	200038	130192	966	996	112.90- 169.35	144.66
	7.820	7.707	178814	151789	1160	1030	87.15- 130.73	129.31
	Average of Peak Amounts =				1000	1010		
Aroclor 1260	9.470	10.343	251339	265246	831	956	80.00- 120.00	100.00
	9.750	10.870	334314	285279	904	961	99.43- 149.15	133.01
	10.077	11.523	390006	333213	661	895	120.99- 181.49	155.17
	10.853	12.283	353725	271578	816	1150	123.90- 185.85	140.74
	12.120	13.117	610026	499913	1070	1140	165.84- 248.76	242.71
	Average of Peak Amounts =				896	1020		
Decachlorobiphenyl	17.390	19.020	514364	476905	87.1	92.9		100.00

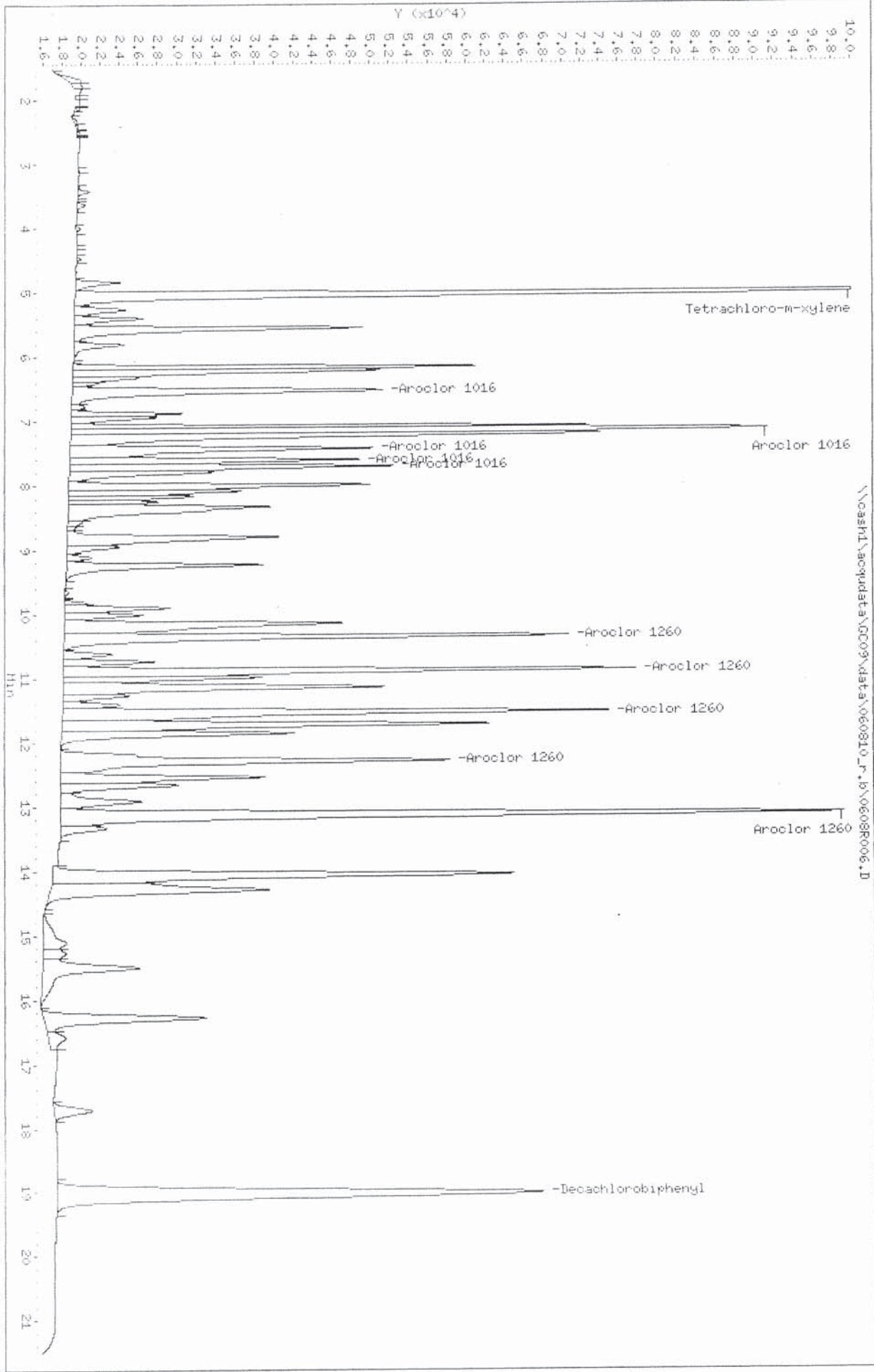
Data File: \\ncash1\acq\data\GC09\data\060810.P\0608F006.D
Date: 08-JUN-2010 19:45
Client ID:
Sample Info: KMG1005541-1 | LCS | 8082 PCB_LL | MISC. SOLI
Column Phase: DP-25MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Data File: \\nossh1\acq\data\GC09\data\060810_r.b\0608R006.D
 Date: 08-JUN-2010 19:45
 Client ID:
 Sample Info: KUC1005541-1 | LCS | 8082 PCB.LL | HISC, SOLI
 Column phase: DB-XLB

Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53



Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Validation Package

Standards Data

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9510
Instrument ID: GC09.i

Column: DB-35MS

Level ID	File ID	Level ID	File ID
A	\\Cash1\Acqudata\GC09\data\052710A.B\0527F022.D	Q	\\Cash1\Acqudata\GC09\data\052710A.B\0527F038.D
B	\\Cash1\Acqudata\GC09\data\052710A.B\0527F023.D	R	\\Cash1\Acqudata\GC09\data\052710A.B\0527F039.D
C	\\Cash1\Acqudata\GC09\data\052710A.B\0527F024.D	S	\\Cash1\Acqudata\GC09\data\052710A.B\0527F040.D
D	\\Cash1\Acqudata\GC09\data\052710A.B\0527F025.D	T	\\Cash1\Acqudata\GC09\data\052710A.B\0527F041.D
E	\\Cash1\Acqudata\GC09\data\052710A.B\0527F026.D	U	\\Cash1\Acqudata\GC09\data\052710A.B\0527F042.D
F	\\Cash1\Acqudata\GC09\data\052710A.B\0527F027.D	V	\\Cash1\Acqudata\GC09\data\052710A.B\0527F043.D
G	\\Cash1\Acqudata\GC09\data\052710A.B\0527F028.D	W	\\Cash1\Acqudata\GC09\data\052710A.B\0527F044.D
H	\\Cash1\Acqudata\GC09\data\052710A.B\0527F029.D	X	\\Cash1\Acqudata\GC09\data\052710A.B\0527F045.D
I	\\Cash1\Acqudata\GC09\data\052710A.B\0527F030.D	Y	\\Cash1\Acqudata\GC09\data\052710A.B\0527F046.D
J	\\Cash1\Acqudata\GC09\data\052710A.B\0527F031.D	Z	\\Cash1\Acqudata\GC09\data\052710A.B\0527F047.D
K	\\Cash1\Acqudata\GC09\data\052710A.B\0527F032.D	AA	\\Cash1\Acqudata\GC09\data\052710A.B\0527F048.D
L	\\Cash1\Acqudata\GC09\data\052710A.B\0527F033.D	AB	\\Cash1\Acqudata\GC09\data\052710A.B\0527F049.D
M	\\Cash1\Acqudata\GC09\data\052710A.B\0527F034.D	AC	\\Cash1\Acqudata\GC09\data\052710A.B\0527F050.D
N	\\Cash1\Acqudata\GC09\data\052710A.B\0527F035.D	AD	\\Cash1\Acqudata\GC09\data\052710A.B\0527F051.D
O	\\Cash1\Acqudata\GC09\data\052710A.B\0527F036.D		
P	\\Cash1\Acqudata\GC09\data\052710A.B\0527F037.D		

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF			
Decachlorobiphenyl	A	2.5	6920	B	5.0	6750	C	50	6030	D	100	5800	E	200	5260
	F	500	4670												
Aroclor 1016 {1}	A	25	153	B	50	165	C	500	152	D	1000	143	E	2000	128
	F	5000	109												
Aroclor 1016 {2}	A	25	282	B	50	335	C	500	312	D	1000	299	E	2000	265
	F	5000	224												
Aroclor 1016 {3}	A	25	284	B	50	298	C	500	261	D	1000	234	E	2000	207
	F	5000	176												
Aroclor 1016 {4}	A	25	245	B	50	236	C	500	212	D	1000	205	E	2000	185
	F	5000	158												
Aroclor 1016 {5}	A	25	161	B	50	158	C	500	162	D	1000	163	E	2000	149
	F	5000	132												
Aroclor 1260 {1}	A	25	353	B	50	358	C	500	308	D	1000	292	E	2000	267
	F	5000	235												
Aroclor 1260 {2}	A	25	459	B	50	446	C	500	373	D	1000	351	E	2000	317
	F	5000	274												
Aroclor 1260 {3}	A	25	549	B	50	546	C	500	454	D	1000	432	E	2000	393
	F	5000	342												
Aroclor 1260 {4}	A	25	431	B	50	489	C	500	453	D	1000	440	E	2000	413
	F	5000	373												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL9510
Instrument ID: GC09.i

Column: DB-35MS

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Aroclor 1260 {5}	A	25	583	B	50	607	C	500	601	D	1000	593	E	2000	546
	F	5000	496												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9510
Instrument ID: GC09.i

Column: DB-35MS

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.6		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	13.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	19.2		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	15.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	7.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	15.8		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	19.5		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	18.3		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	7.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010
Date Analyzed: 05/28/2010

**Second Source Calibration Verification
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration ID: CAL9510
Units: ng/mL

File ID: \\Cash1\Acqudata\GC09\data\052710A.B\0527F052.D
 \\Cash1\Acqudata\GC09\data\052710A.B\0527F053.D
 \\Cash1\Acqudata\GC09\data\052710A.B\0527F054.D
 \\Cash1\Acqudata\GC09\data\052710A.B\0527F055.D
 \\Cash1\Acqudata\GC09\data\052710A.B\0527F056.D
 \\Cash1\Acqudata\GC09\data\052710A.B\0527F057.D
 \\Cash1\Acqudata\GC09\data\052710A.B\0527F058.D
 \\Cash1\Acqudata\GC09\data\052710A.B\0527F059.D
 \\Cash1\Acqudata\GC09\data\052710A.B\0527F060.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	142	160	13	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	286	334	17	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	243	257	6	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	207	224	8	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1300	154	198	29	NA	± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	-14	± 15 %	NA
Aroclor 1260 {1}	1000	950	302	287	-5	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	1000	370	377	2	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	990	453	450	-1	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	860	433	374	-14	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	571	671	18	NA	± 100 %	AverageRF
Aroclor 1260	1000	1000	NA	NA	NA	0	± 15 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9510
Instrument ID: GC09.i

Column: DB-XLB

Level ID	File ID	Level ID	File ID
A	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R022.D	Q	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R038.D
B	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R023.D	R	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R039.D
C	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R024.D	S	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R040.D
D	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R025.D	T	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R041.D
E	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R026.D	U	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R042.D
F	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R027.D	V	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R043.D
G	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R028.D	W	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R044.D
H	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R029.D	X	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R045.D
I	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R030.D	Y	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R046.D
J	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R031.D	Z	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R047.D
K	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R032.D	AA	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R048.D
L	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R033.D	AB	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R049.D
M	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R034.D	AC	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R050.D
N	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R035.D	AD	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R051.D
O	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R036.D		
P	\\Cash1\Acqudata\GC09\data\052710A_r.b\0527R037.D		

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF			
Decachlorobiphenyl	A	2.5	5660	B	5.0	5610	C	50	5290	D	100	5190	E	200	4790
	F	500	4260												
Aroclor 1016 {1}	A	25	198	B	50	195	C	500	190	D	1000	188	E	2000	173
	F	5000	155												
Aroclor 1016 {2}	A	25	375	B	50	377	C	500	322	D	1000	320	E	2000	291
	F	5000	255												
Aroclor 1016 {3}	A	25	148	B	50	139	C	500	173	D	1000	176	E	2000	163
	F	5000	148												
Aroclor 1016 {4}	A	25	142	B	50	136	C	500	140	D	1000	137	E	2000	124
	F	5000	105												
Aroclor 1016 {5}	A	25	152	B	50	152	C	500	159	D	1000	156	E	2000	139
	F	5000	125												
Aroclor 1260 {1}	A	25	294	B	50	311	C	500	290	D	1000	281	E	2000	257
	F	5000	232												
Aroclor 1260 {2}	A	25	320	B	50	344	C	500	308	D	1000	296	E	2000	270
	F	5000	243												
Aroclor 1260 {3}	A	25	392	B	50	383	C	500	383	D	1000	382	E	2000	358
	F	5000	334												
Aroclor 1260 {4}	A	25	188	B	50	237	C	500	253	D	1000	256	E	2000	245
	F	5000	234												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9510
Instrument ID: GC09.i

Column: DB-XLB

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF			
Aroclor 1260 {5}	A	25	456	B	50	453	C	500	449	D	1000	450	E	2000	428
	F	5000	401												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9510
Instrument ID: GC09.i

Column: DB-XLB

Analyte Name	Compound Type	Calibration Evaluation				Control Criteria
		Fit Type	Eval.	Eval. Result	Q	
Decachlorobiphenyl	SURR	AverageRF	% RSD	10.4		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	14.7		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.6		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	10.7		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	8.7		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	10.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.1		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	5.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.5		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	4.9		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 05/27/2010
Date Analyzed: 05/28/2010

**Second Source Calibration Verification
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration ID: CAL9510
Units: ng/mL

File ID: \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R052.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R053.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R054.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R055.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R056.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R057.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R058.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R059.D
 \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R060.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	183	195	6	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	323	326	1	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	158	181	15	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	131	137	5	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	147	163	10	NA	± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	-7	± 15 %	NA
Aroclor 1260 {1}	1000	1000	277	280	1	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	980	297	292	-2	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	910	372	339	-9	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	235	282	20	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	440	506	15	NA	± 100 %	AverageRF
Aroclor 1260	1000	1100	NA	NA	NA	-5	± 15 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

Sequence Name: D:\GC09\SEQUENCE\052710A.S
 Comment: PCB Aroclors by EPA 8082
 Operator: LHarris
 Data Path: D:\GC09\DATA\052710A.B\
 Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch
 (X) Full Method (X) Inject Anyway
 () Reprocessing Only () Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name	
1	DeleteGC					
2	MaskName	-	----	r----		
3	Clocksrt	-	19:29			
4	IB	1	0527F020	PCB_REG	IB	
5	IB	2	0527F021	PCB_REG	IB	
6	ICAL	3	0527F022	PCB_REG	1016/1260 @ 25ppb	PCB5-55F
7	ICAL	4	0527F023	PCB_REG	1016/1260 @ 50ppb	PCB5-55G
8	ICAL	5	0527F024	PCB_REG	1016/1260 @ 500ppb	PCB5-55H
9	ICAL	6	0527F025	PCB_REG	1016/1260 @ 1000ppb	PCB5-55I
10	ICAL	7	0527F026	PCB_REG	1016/1260 @ 2000ppb	PCB5-55J
11	ICAL	8	0527F027	PCB_REG	1016/1260 @ 5000ppb	PCB5-55K
12	ICAL	9	0527F028	PCB_REG	1221/1254 @ 50/25ppb	PCB5-52D
13	ICAL	10	0527F029	PCB_REG	1221/1254 @ 100/50ppb	PCB5-52E
14	ICAL	11	0527F030	PCB_REG	1221/1254 @ 1000/500ppb	PCB5-52F
15	ICAL	12	0527F031	PCB_REG	1221/1254 @ 2000/1000ppb	PCB5-52G
16	ICAL	13	0527F032	PCB_REG	1221/1254 @ 4000/2000ppb	PCB5-52H
17	ICAL	14	0527F033	PCB_REG	1221/1254 @ 10000/5000ppb	PCB5-52I
18	ICAL	15	0527F034	PCB_REG	1232/1262 @ 25ppb	PCB5-52J
19	ICAL	16	0527F035	PCB_REG	1232/1262 @ 50ppb	PCB5-52K
20	ICAL	17	0527F036	PCB_REG	1232/1262 @ 500ppb	PCB5-52L
21	ICAL	18	0527F037	PCB_REG	1232/1262 @ 1000ppb	PCB5-52M
22	ICAL	19	0527F038	PCB_REG	1232/1262 @ 2000ppb	PCB5-52N
23	ICAL	20	0527F039	PCB_REG	1232/1262 @ 5000ppb	PCB5-52O
24	ICAL	21	0527F040	PCB_REG	1242/1268 @ 25ppb	PCB5-52P
25	ICAL	22	0527F041	PCB_REG	1242/1268 @ 50ppb	PCB5-52Q
26	ICAL	23	0527F042	PCB_REG	1242/1268 @ 500ppb	PCB5-52R
27	ICAL	24	0527F043	PCB_REG	1242/1268 @ 1000ppb	PCB5-52S
28	ICAL	25	0527F044	PCB_REG	1242/1268 @ 2000ppb	PCB5-52T
29	ICAL	26	0527F045	PCB_REG	1242/1268 @ 5000ppb	PCB5-53A
30	ICAL	27	0527F046	PCB_REG	1248 @ 25ppb	PCB5-53B
31	ICAL	28	0527F047	PCB_REG	1248 @ 50ppb	PCB5-53C
32	ICAL	29	0527F048	PCB_REG	1248 @ 500ppb	PCB5-53D
33	ICAL	30	0527F049	PCB_REG	1248 @ 1000ppb	PCB5-53E
34	ICAL	31	0527F050	PCB_REG	1248 @ 2000ppb	PCB5-53F
35	ICAL	32	0527F051	PCB_REG	1248 @ 5000ppb	PCB5-53G
36	ICV	33	0527F052	PCB_REG	1016 @ 1000ppb	PCB5-49E
37	ICV	34	0527F053	PCB_REG	1221 @ 1000ppb	PCB5-53J
38	ICV	35	0527F054	PCB_REG	1232 @ 1000ppb	PCB5-49F
39	ICV	36	0527F055	PCB_REG	1242 @ 1000ppb	PCB5-49G
40	ICV	37	0527F056	PCB_REG	1248 @ 1000ppb	PCB5-49H
41	ICV	38	0527F057	PCB_REG	1254 @ 1000ppb	PCB5-53K
42	ICV	39	0527F058	PCB_REG	1260 @ 1000ppb	PCB5-49I
43	ICV	40	0527F059	PCB_REG	1262 @ 1000ppb	PCB5-49J

ICAL 9510

*Do not use to report AR 1221 for
 any DOD 4.1 hits
 CH 5/28/10*

Sequence Name: D:\GC09\SEQUENCE\052710A.S

Line Type	Vial	DataFile	Method	Sample Name
44 ICV 45	41	0527F060	PCB_REG	1268 @ 1000ppb PCB5-49K

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F021.D
Report Date: 28-May-2010 17:28

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F021.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R021.D
Inj Date : 27-MAY-2010 23:27
Sample Info: IB
Misc Info :
Cal Date : 28-MAY-2010 14:15
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
----------	------	------	--------	--------	--------	--------	--------------	-------

=====

Handwritten signature and date:
5/28/10
A.G./10

Data File: \\Casid\Acq\data\0009\data\052710A.B\0527F021.D
Date: 27-MAY-2010 23:27

Client ID:
Sample Info: 1B

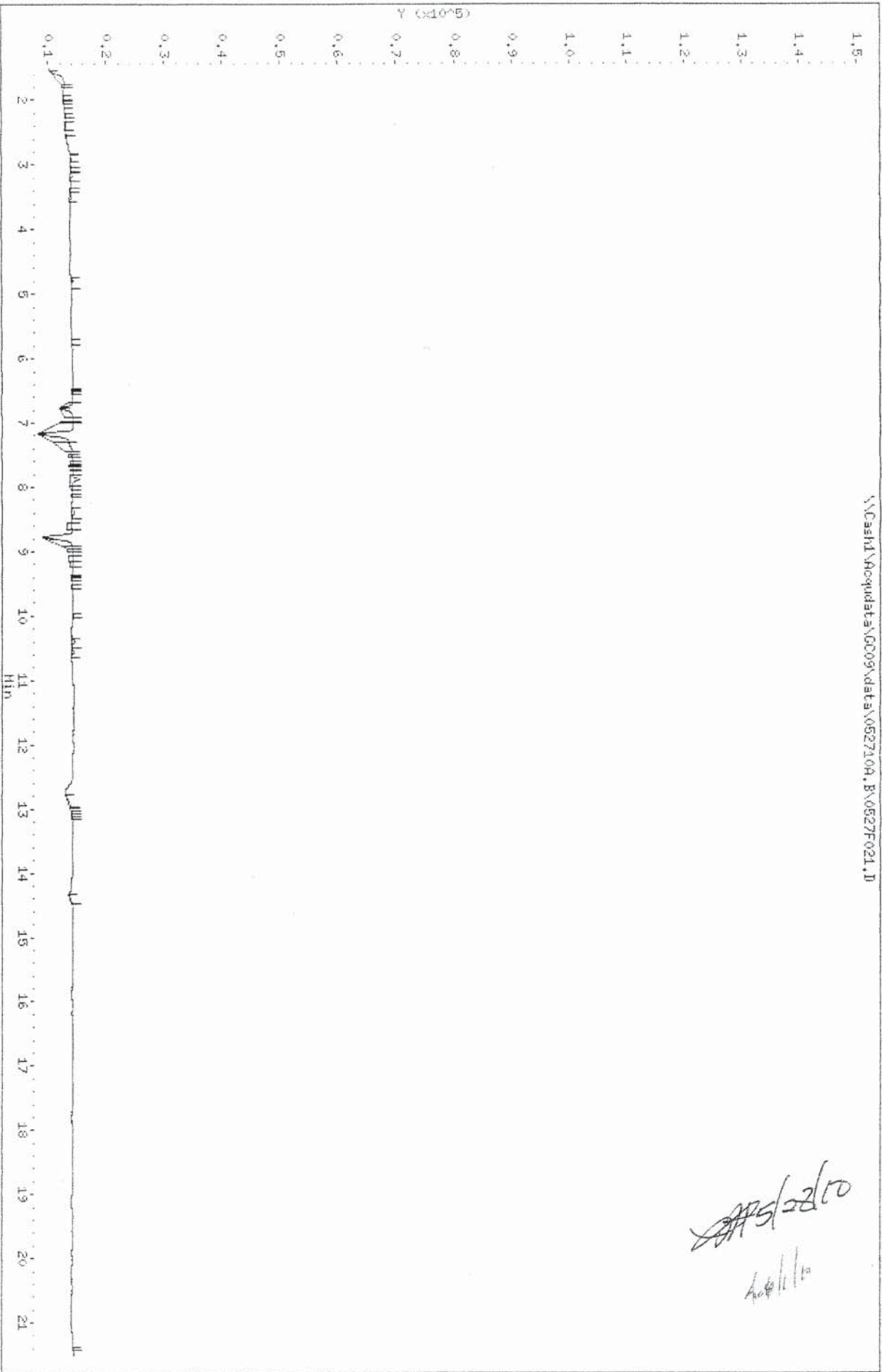
Column phase: DB-35MS

Instrument: GC09.i

Operator: LHarris

Column diameter: 0.53

\\Casid\Acq\data\0009\data\052710A.B\0527F021.D



Handwritten signature and date:
05/27/10
LHarris

Data File: \\CASH1\Hocquada\GC09\data\0527109_1.r\n\0527R021.D
Date: 27-May-2010 23:27

Client ID:
Sample Info: 1B

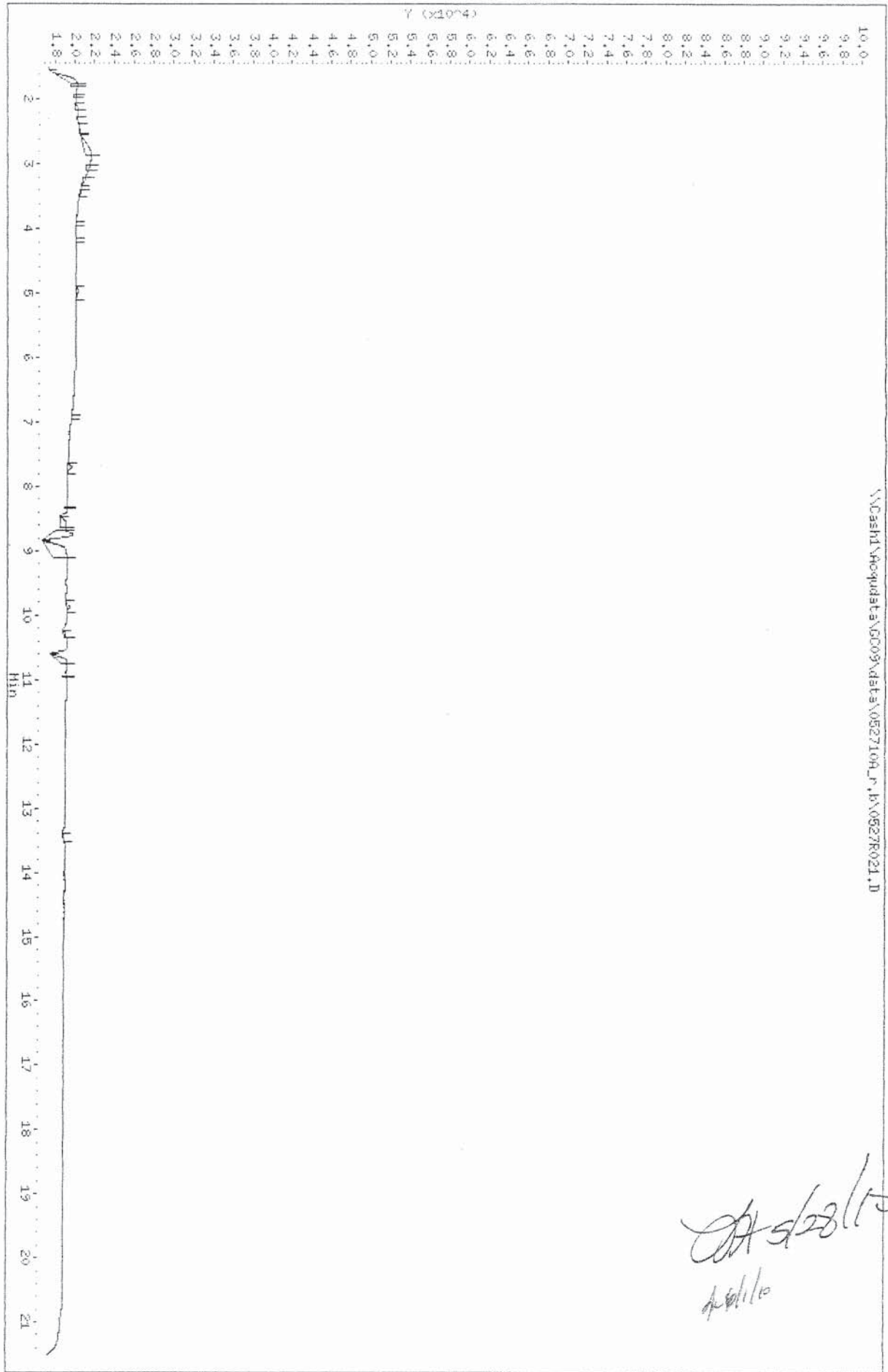
Column phase: DB-7LB

Instrument: GC09.1

Operator: LHarris
Column diameter: 0.53

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[Handwritten signature]
5/28/10
4:41/10



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F022.D
Report Date: 28-May-2010 17:28

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F022.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R022.D
Inj Date : 27-MAY-2010 23:53
Sample Info: 1016/1260 @ 25ppb | PCB5-55F
Misc Info :
Cal Date : 28-MAY-2010 13:49
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1660.SUB
Sub List #2 : AR1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.343	5.030	22176	16014	3.12	2.72		100.00
Aroclor 1016	6.180	6.540	3830	4938	27.0	29.8	80.00- 120.00	100.00 (M)
	6.720	7.163	7061	9382	24.6	29.0	162.91- 244.36	184.36 (M)
	7.033	7.447	7093	3695	28.9	23.4	145.03- 217.55	185.21 (M)
	7.540	7.623	6135	3546	29.4	27.1	115.01- 172.51	160.18 (M)
	7.837	7.727	4022	3811	25.7	25.8	76.85- 115.27	105.01 (M)
	Average of Peak Amounts =				27.1	27.0		
Aroclor 1260	9.490	10.367	8826	7343	29.2	26.5	80.00- 120.00	100.00
	9.770	10.893	11469	7990	31.0	26.9	99.64- 149.46	129.94
	10.097	11.547	13727	9798	30.3	26.3	122.12- 183.18	155.51
	10.873	12.313	10765	4708	24.8	20.0	109.38- 164.06	121.97
	12.147	13.147	14576	11411	25.5	26.0	135.68- 203.52	165.14
	Average of Peak Amounts =				28.2	25.1		
Decachlorobiphenyl	17.433	19.073	17308	14157	2.93	2.76		100.00

QC Flag Legend

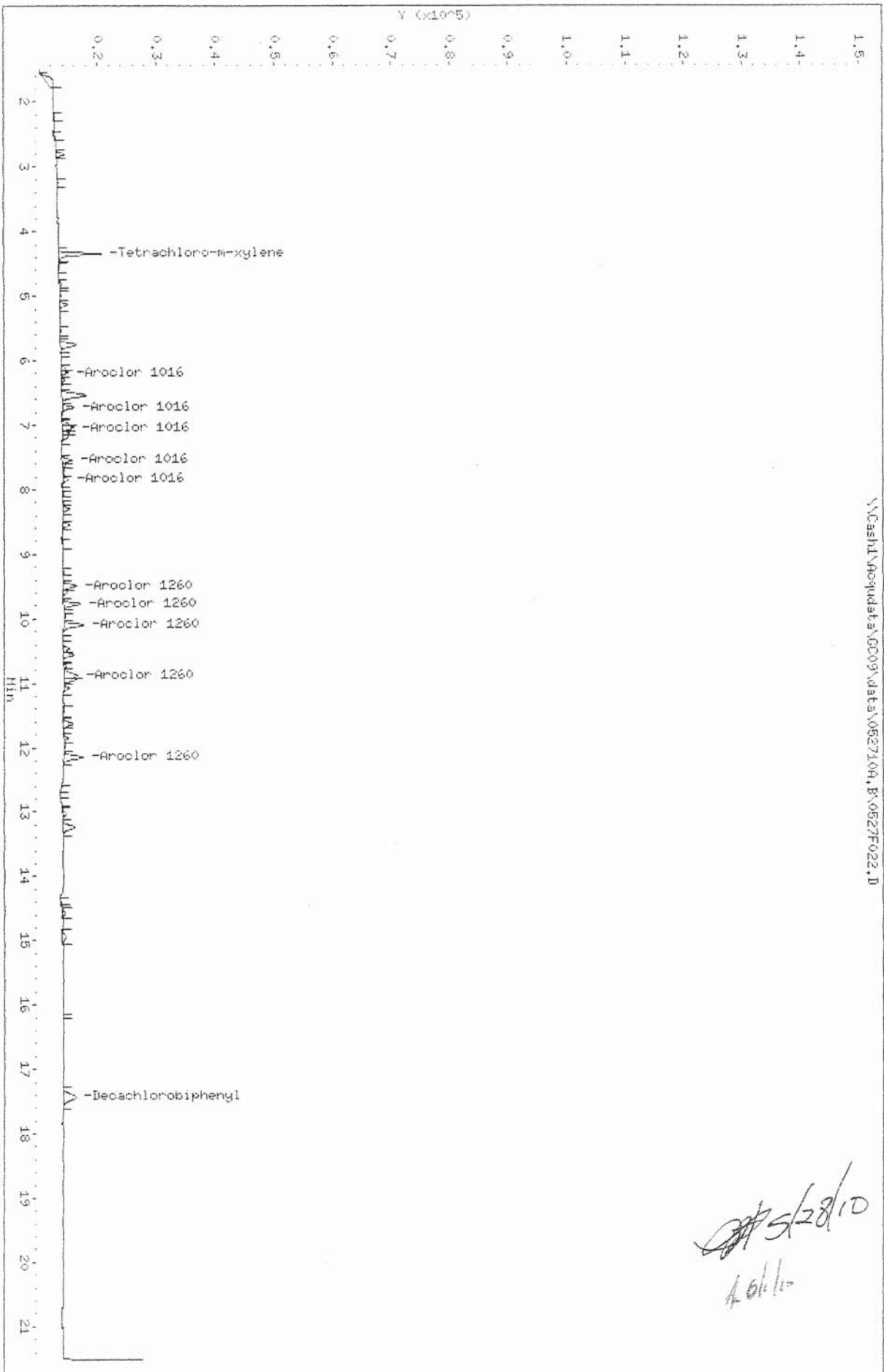
M - Compound response manually integrated.

Handwritten signature and date:
5/28/10
6/1/10

Data File: \\Casha1\ncs\data\GC09\data\0627109.B\0627F022.D
Date : 27-May-2010 23:53
Client ID:
Sample Info: 1016/1260 @ 25ppb | PCBs-SGF
Column Phase: DB-30MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

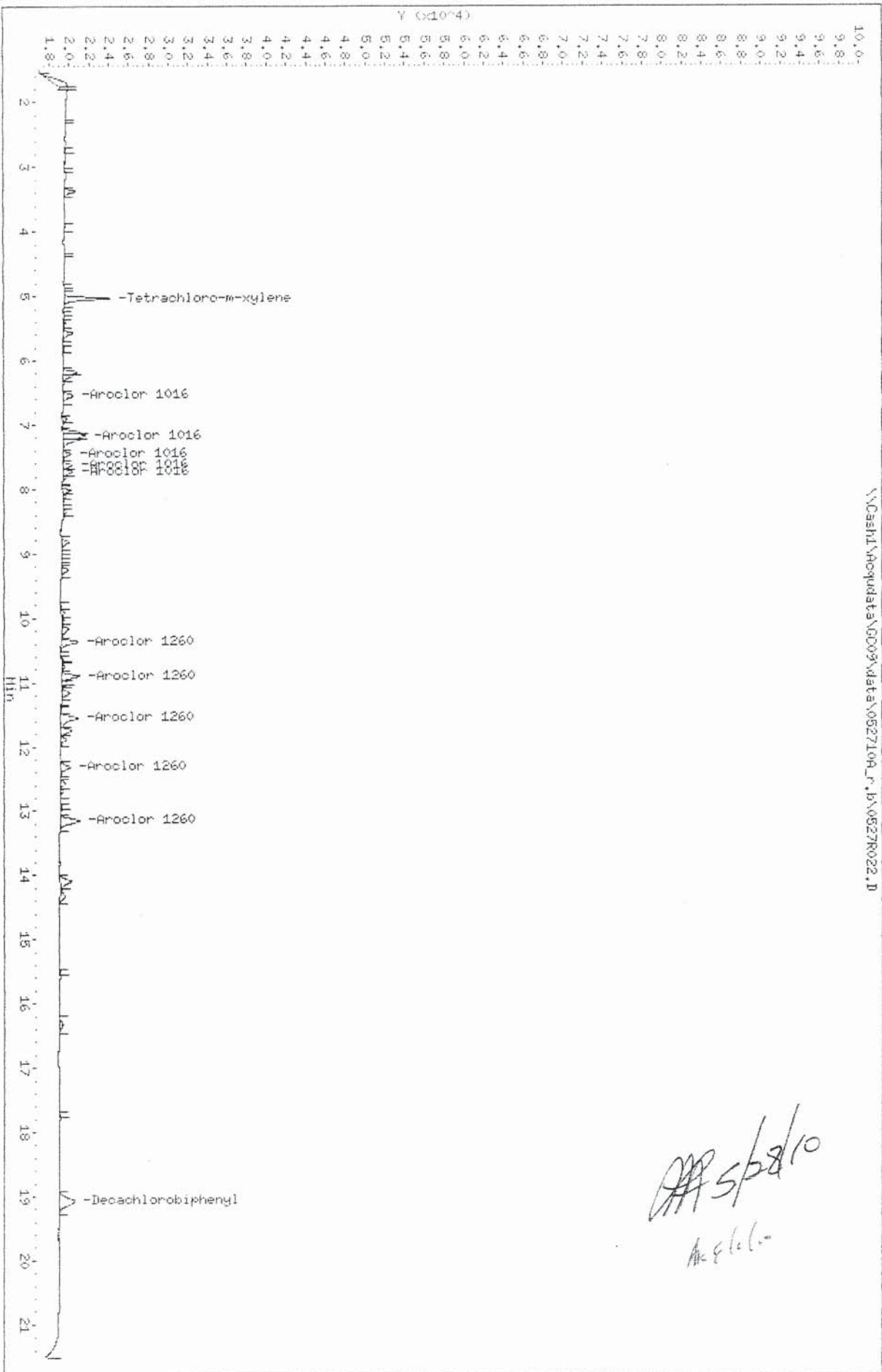
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Data File: \\CASH1\hpc\qdata\0009\data\052710A.L\0527R022.D
 Date: 27-Nov-2010 22:53
 Client ID:
 Sample Info: 1016/1260 @ 25ppb | PCBs-SGF
 Column Phase: DB-XLB

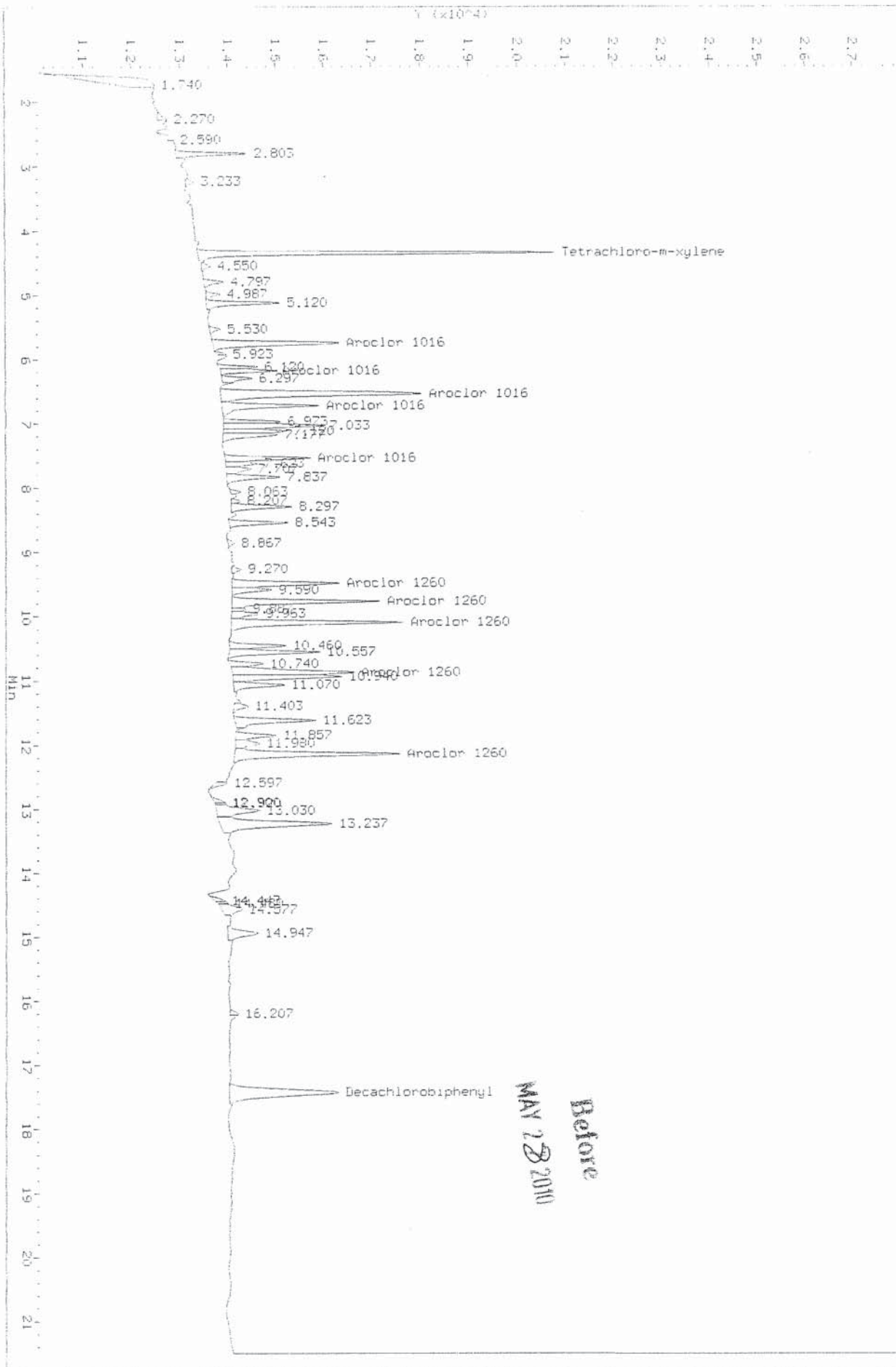
Instrument: GC09.i
 Operator: LHarris
 Column diameter: 0.53

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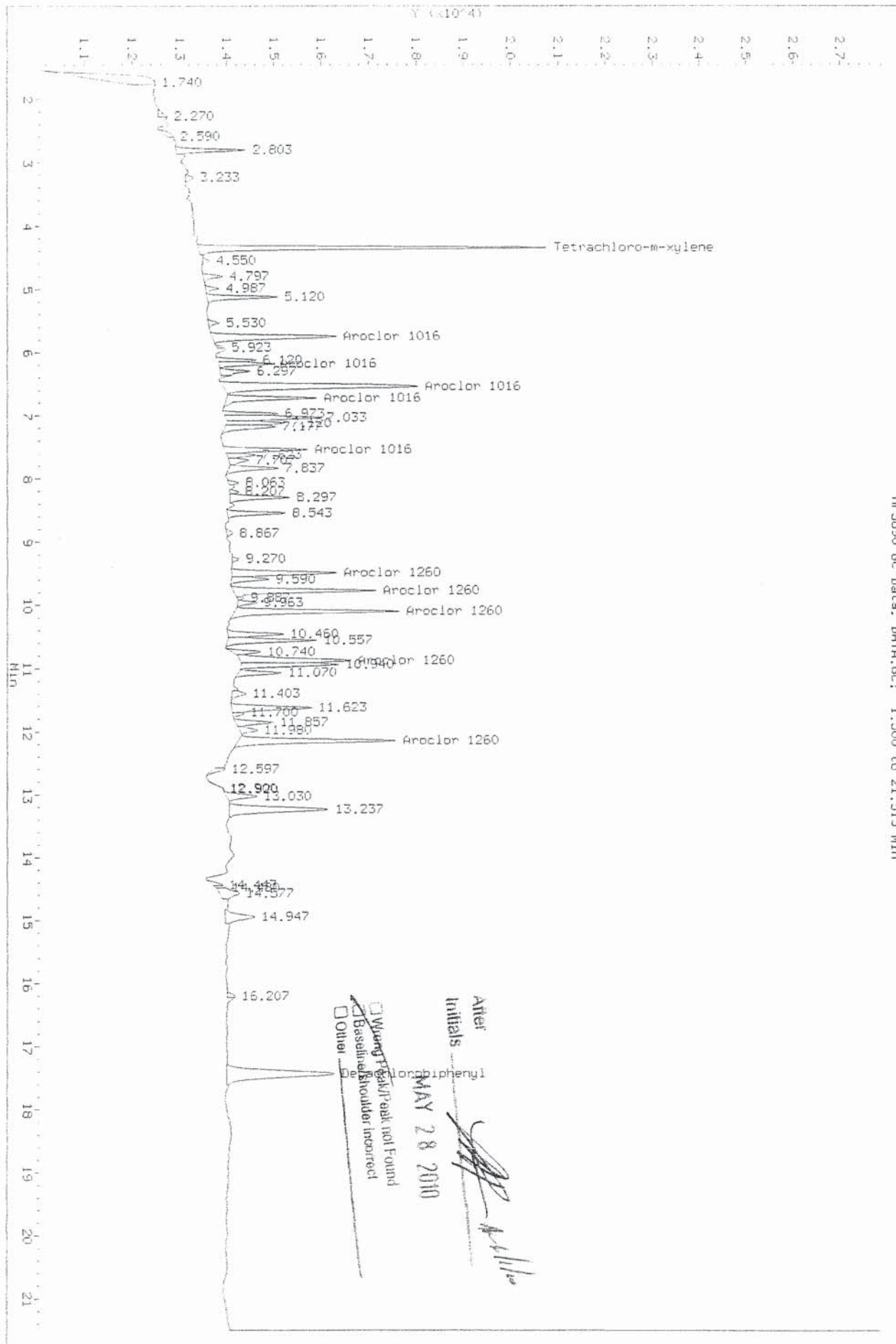


Handwritten signature and date:
 [Signature] 5/28/10
 [Signature]

HP5990 GC Data, DATA.GC: 1.500 to 21.513 Min



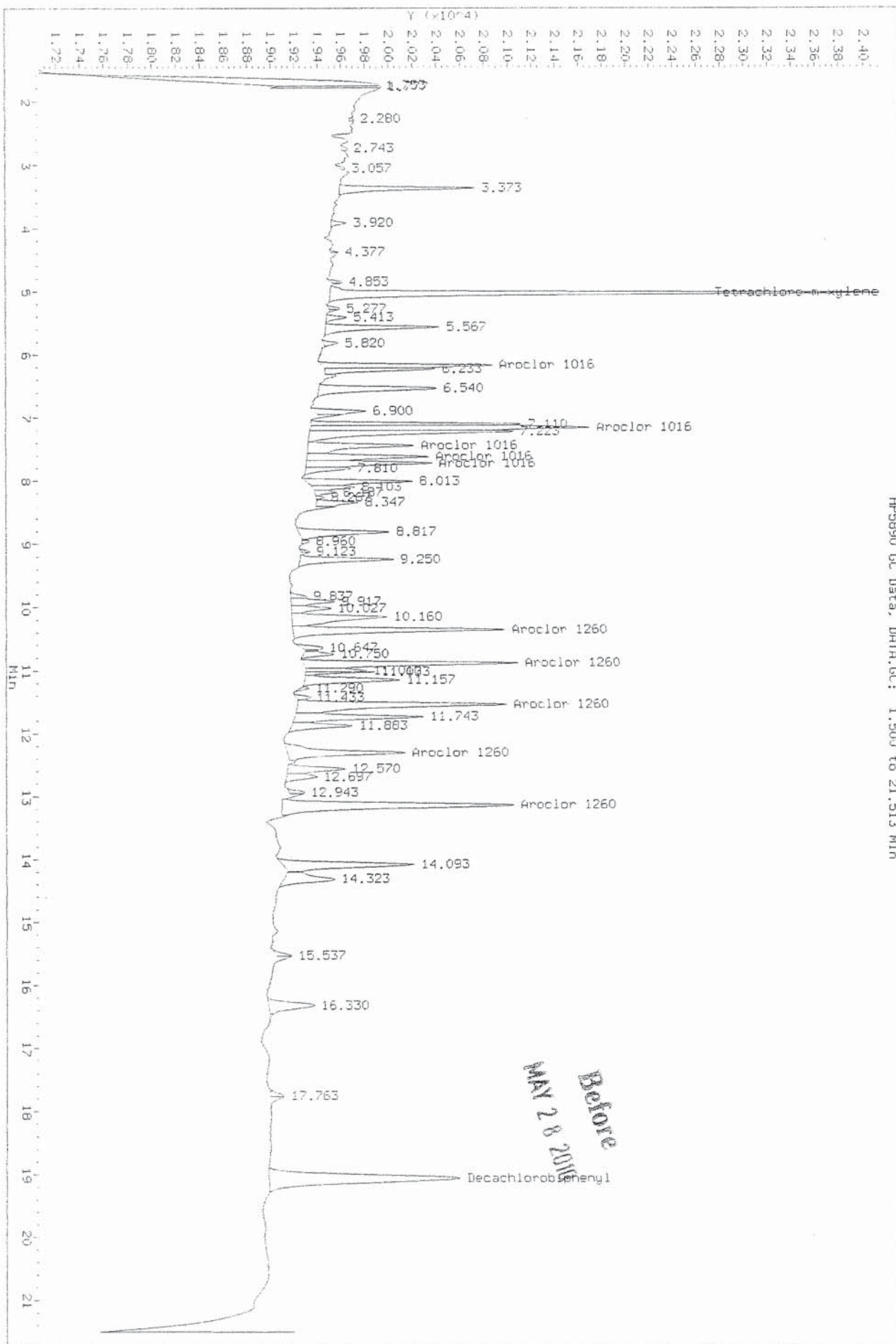
Data File: \\Cash1\ncq\data\GC09\data\0527109.B\05271022.D
 Injection Date: 27-MAY-2010 23:53
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.513 Min

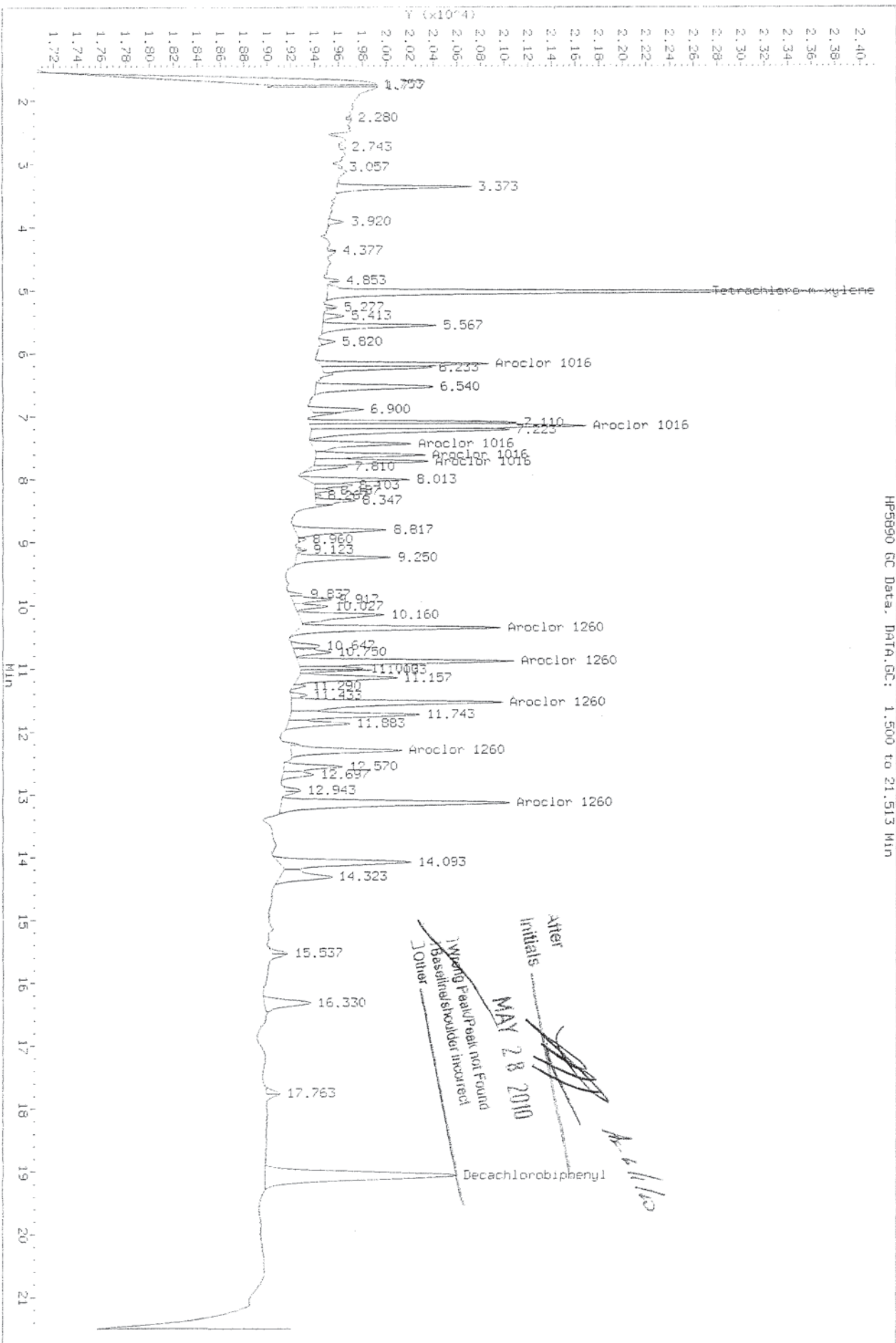
Alter Initials
 MAY 28 2010
 When Peak/peak not found
 Baseline
 Shoulder
 Incorrect
 Other

Data File: \\Casal1\Mequidata\GC09\data\0527104_r_b\05278022.D
 Injection Date: 27-May-2010 23:53
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.503 to 21.513 Min

Before
 MAY 28 2010



HP5890 GC Data, DATA.GC: 1.500 to 21.513 Min

after initials
 MAY 28 2010
 Wang Peak not found
 baseline shoulder incorrect
 Other
 H-11/10

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F023.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R023.D
 Inj Date : 28-MAY-2010 00:19
 Sample Info: 1016/1260 @ 50ppb | PCB5-55G
 Misc Info :
 Cal Date : 28-MAY-2010 13:49
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : AR1660.SUB
 Sub List #2 : AR1660.SUB
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.343	5.030	42292	30894	5.95	5.25		100.00
Aroclor 1016	6.180	6.543	8225	9771	58.1	59.1	80.00- 120.00	100.00(M)
	6.723	7.163	16749	18833	58.5	58.2	162.91- 244.36	203.64(M)
	7.033	7.447	14911	6955	61.3	44.0	145.03- 217.55	181.29(M)
	7.540	7.620	11824	6794	57.1	52.0	115.01- 172.51	143.76(M)
	7.837	7.727	7901	7616	51.2	51.6	76.85- 115.27	96.06(M)
	Average of Peak Amounts =				57.2	53.0		
Aroclor 1260	9.490	10.367	17890	15555	59.2	56.1	80.00- 120.00	100.00
	9.770	10.893	22282	17181	60.2	57.9	99.64- 149.46	124.55
	10.097	11.547	27309	19173	60.3	51.5	122.12- 183.18	152.65
	10.877	12.313	24459	11860	56.5	50.4	109.38- 164.06	136.72
	12.147	13.147	30342	22668	53.1	51.6	135.68- 203.52	169.61
	Average of Peak Amounts =				57.9	53.5		
Decachlorobiphenyl	17.433	19.073	33726	28071	5.71	5.47		100.00

QC Flag Legend

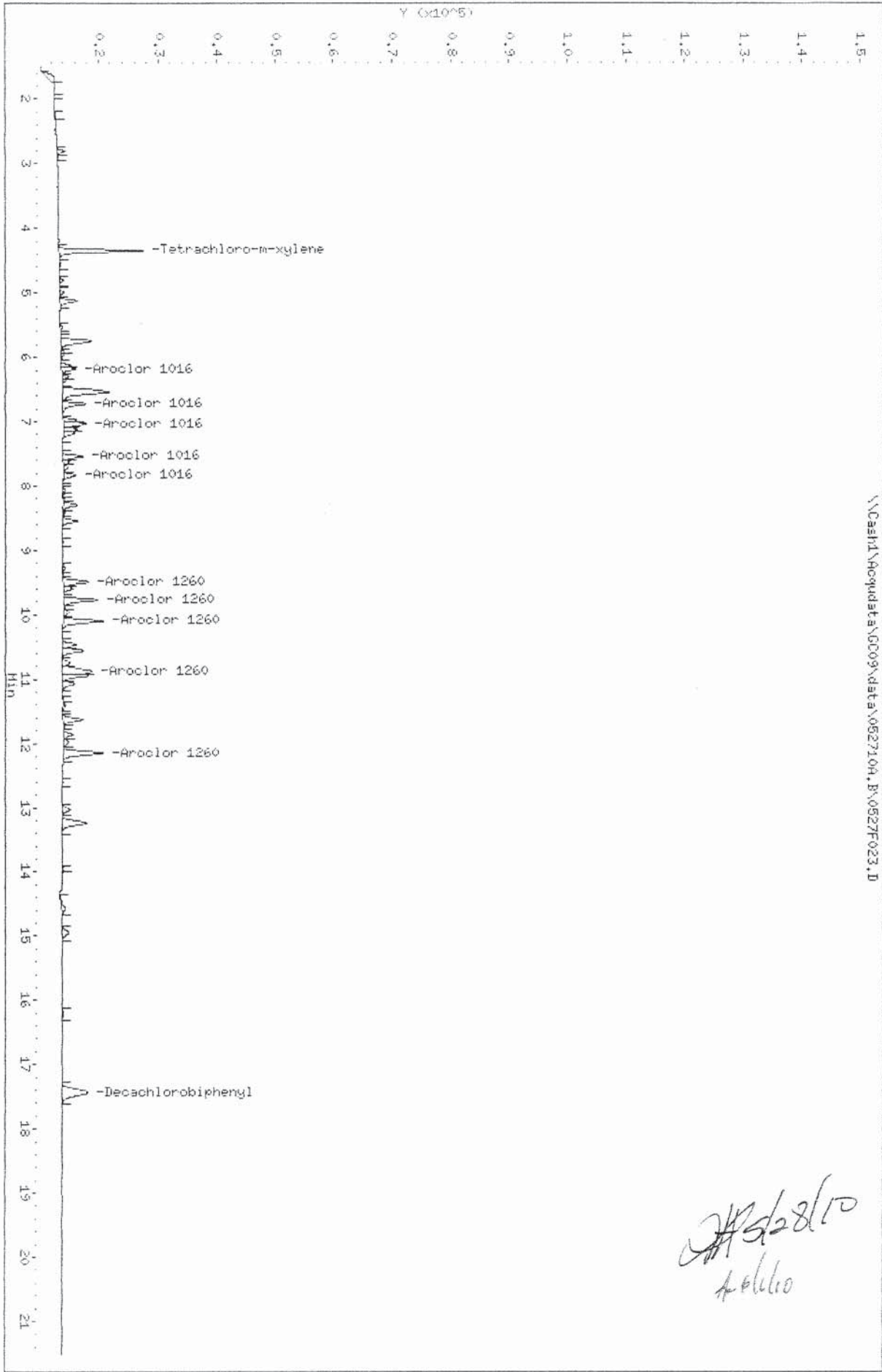
M - Compound response manually integrated.

Handwritten signature and date:
 ARS/28/10
 A. Harris

Data File: \\Cash1\Acqudata\GC09\data\0527104.B\0527F023.D
Date : 28-May-2010 09:13
Client ID:
Sample Info: 1016/1260 @ 50ppb I PCB5-550
Column phase: DB-35MS

Instrument: GC09.i
Operator: LHarris
Column diameter: 0.53

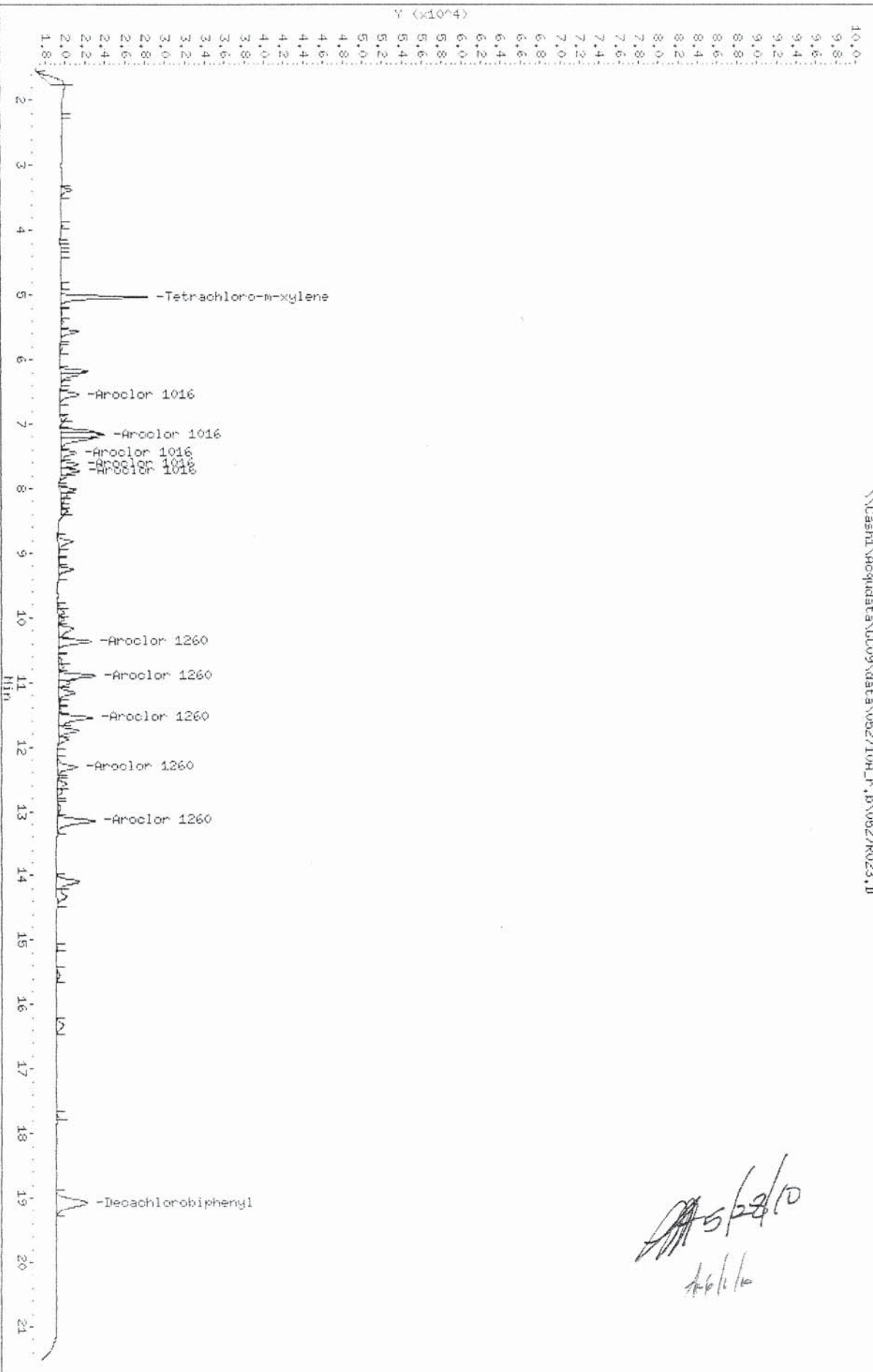
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Data File: \\Cashd\Acqudata\GC09\data\052710A_r_b\0527R023.D
 Date: 28-May-2010 00:19
 Client ID:
 Sample Info: 1016/1260 & 50ppb 1 PCBs-556
 Column phase: DB-MLB

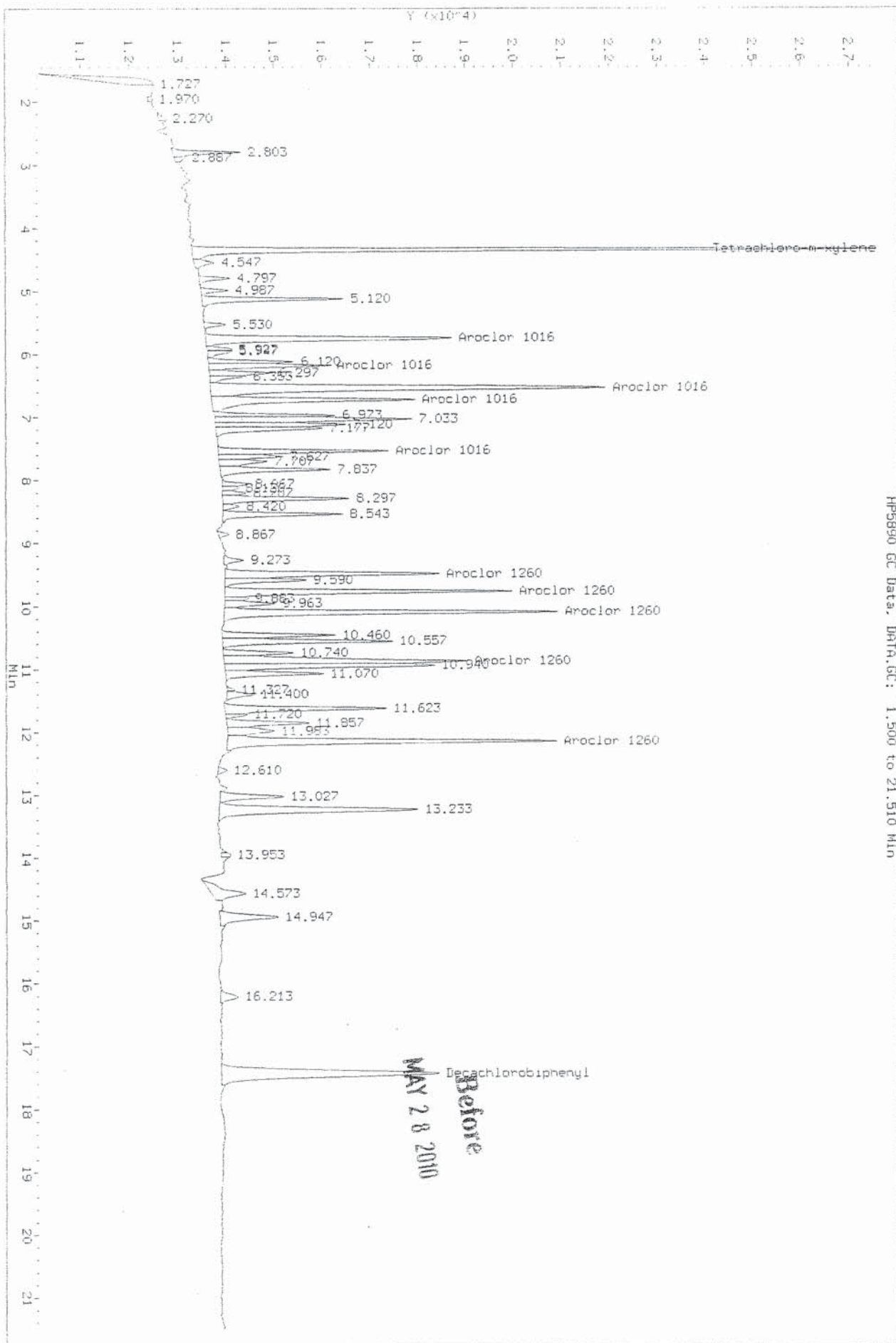
Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53

\\Cashd\Acqudata\GC09\data\052710A_r_b\0527R023.D



Handwritten signature and date:
 5/28/10
 10/1/10

Data File: \\Ceshti\Acqudata\GC09\data\0527104.B\05271023.D
Injection Date: 28-May-2010 00:19
Instrument: GC09.1
Client Sample ID:

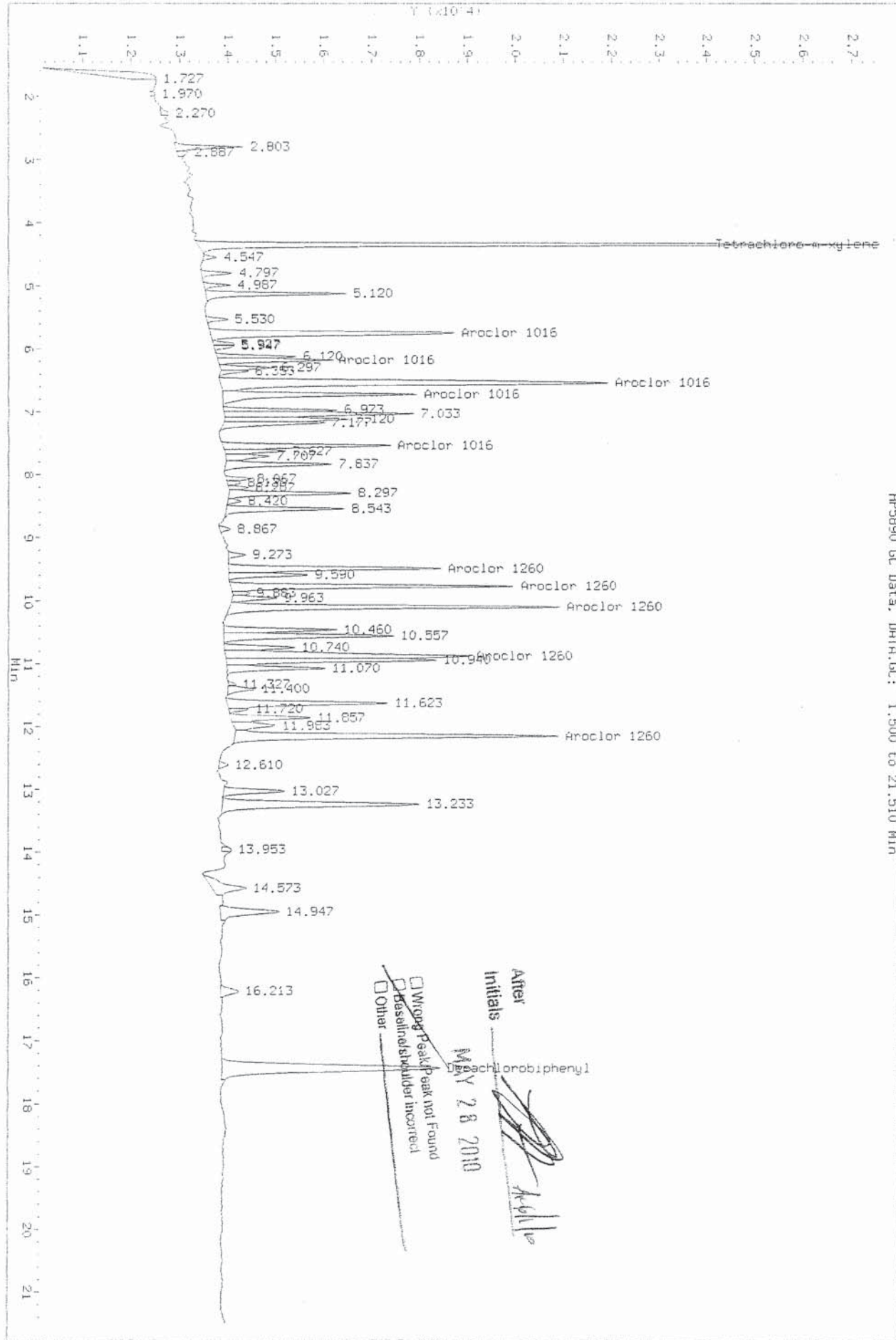


HP5890 GC Data: DATA.GC: 1.500 to 21.510 Min

Before
MAY 28 2010

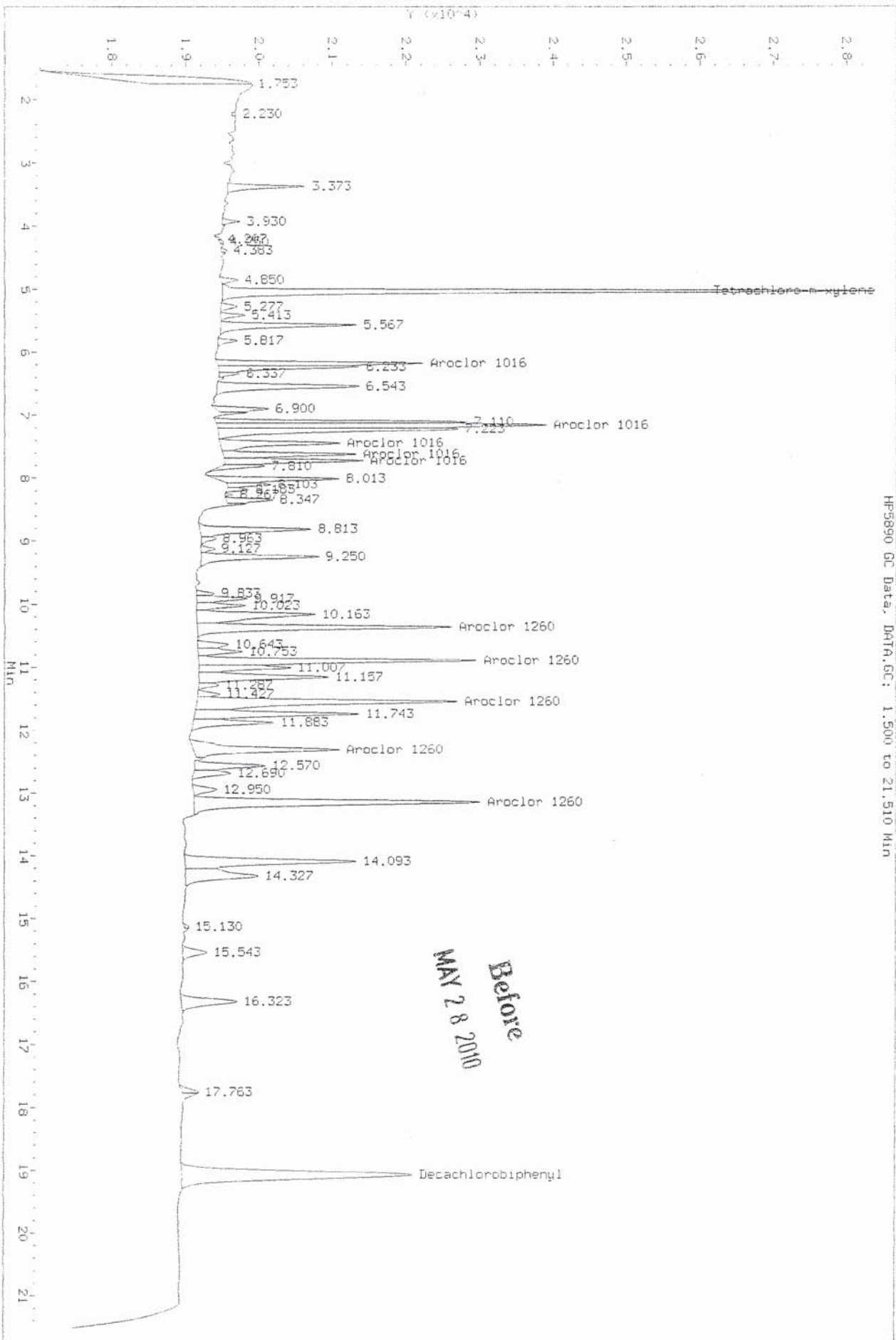
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 Injection Date: 28-May-2010 00:19
 Instrument: 6009.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.510 MIN



After Initials
 MAY 28 2010
 Wrong Peak
 Peak not Found
 Baseline/shoulder incorrect
 Other

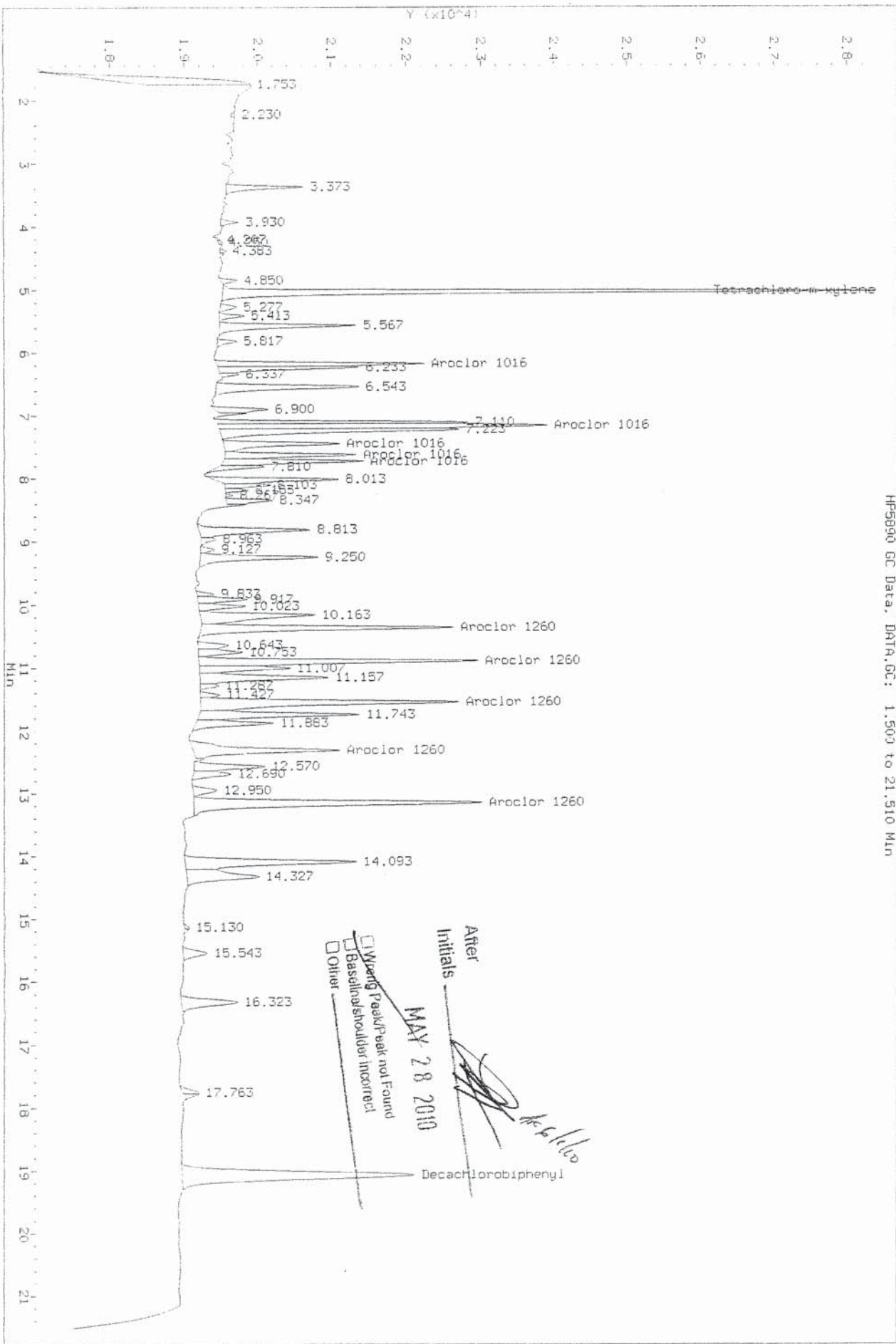
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 Injection Date: 28-May-2010 00:19
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min

Before
MAY 28 2010

Data File: \\C:\sash1\gc\data\GC09\data\052710A_r.p\0527R023.D
 Injection Date: 28-May-2010 00:19
 Instrument: GC09.1
 Client Sample ID:



HF5890 GC Data, DATA.GC: 1.500 to 21.510 Min

After Initials _____
 MAX 28 2010
 Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F024.D
Report Date: 28-May-2010 17:28

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F024.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R024.D
Inj Date : 28-MAY-2010 00:46
Sample Info: 1016/1260 @ 500ppb | PCB5-55H
Misc Info :
Cal Date : 28-MAY-2010 13:49
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

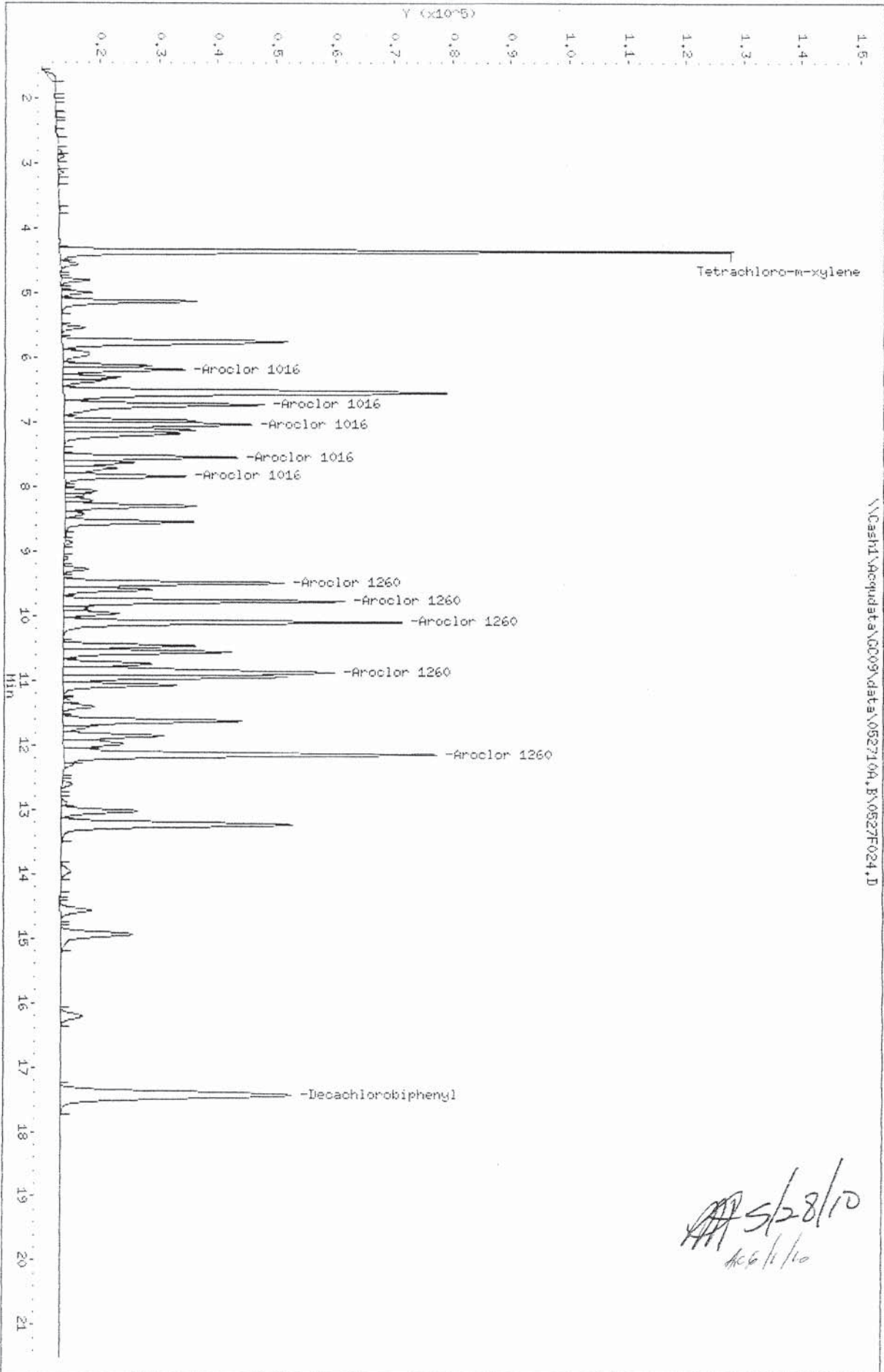
Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1660.SUB
Sub List #2 : AR1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.343	5.030	358927	302772	50.5	51.4		100.00
Aroclor 1016	6.180	6.543	76152	95206	340	559	80.00- 120.00	100.00
	6.723	7.163	156129	161123	715	498	162.91- 244.36	205.02
	7.030	7.447	130532	86747	304	549	145.03- 217.55	171.41
	7.540	7.623	106227	70150	427	537	115.01- 172.51	139.49
	7.837	7.723	81220	79490	467	539	76.85- 115.27	106.66
	Average of Peak Amounts =				451	536		
Aroclor 1260	9.487	10.362	154171	145100	510	523	80.00- 120.00	100.00
	9.770	10.893	186470	153968	504	519	99.64- 149.46	120.95
	10.093	11.547	227237	191734	502	515	122.12- 183.18	147.39
	10.873	12.310	226727	126592	523	538	109.38- 164.06	147.06
	12.143	13.147	300748	224610	527	511	135.68- 203.52	195.07
	Average of Peak Amounts =				513	521		
Decachlorobiphenyl	17.433	19.077	301294	264364	51.0	51.5		100.00

Handwritten signature and date:
5/28/10
LHarris

Data File: \\CASH1\Acqudata\GC09\data\052710A.B\0527024.D
Date: 28-May-2010 00:46
Client ID:
Sample Info: 1016/1260 @ 500ppb I PCBs-5SH
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

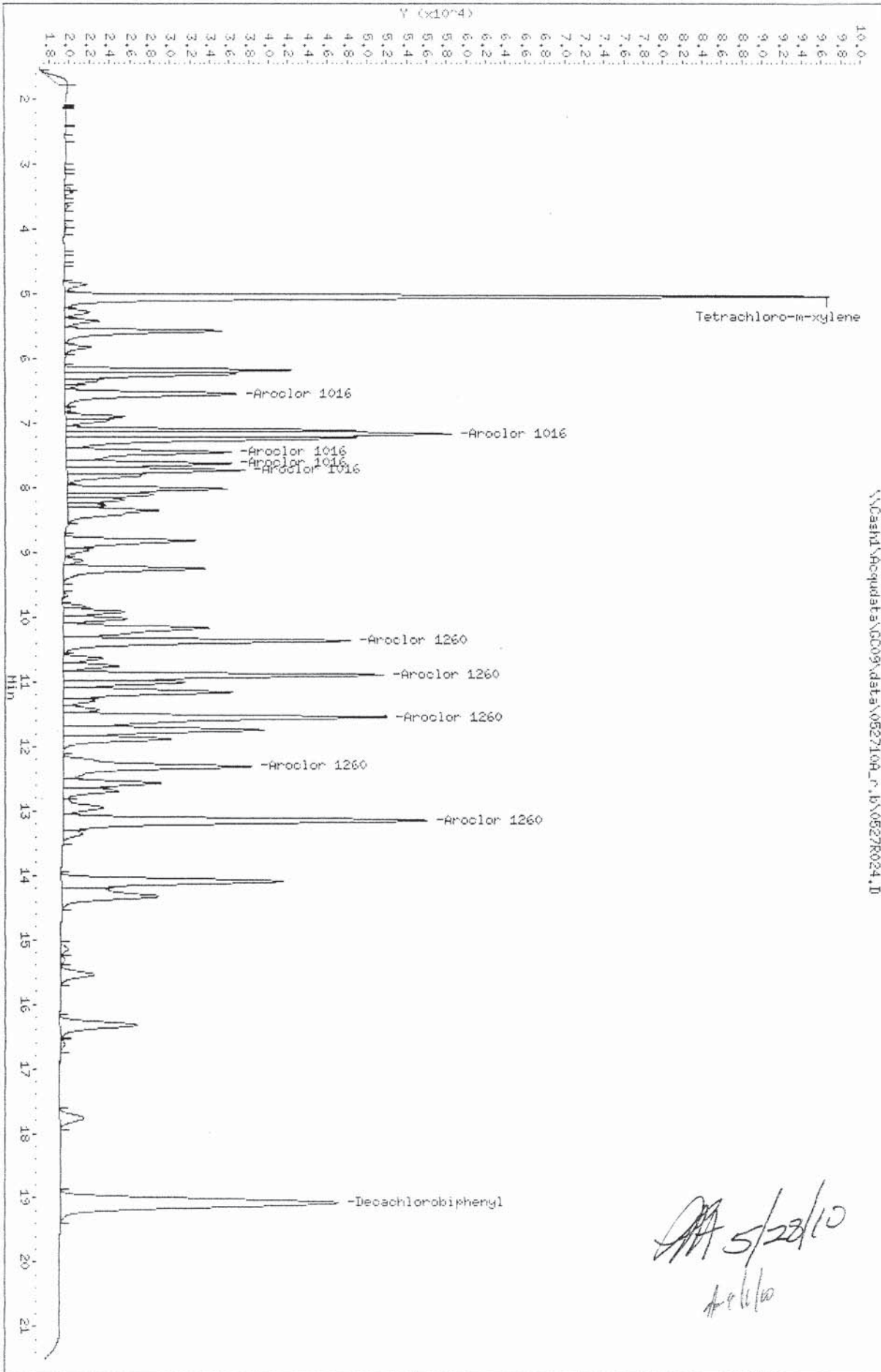


Handwritten signature and date:
5/28/10
K.G.H.

Data File: \\Cashtl\Acqudata\GC09\data\052710A_r_b\0527R024.D
Date: 28-MAY-2010 00:46
Client ID:
Sample Info: 1016/1260 @ 500ppb | PCB5-5SH
Column phase: DB-1LB

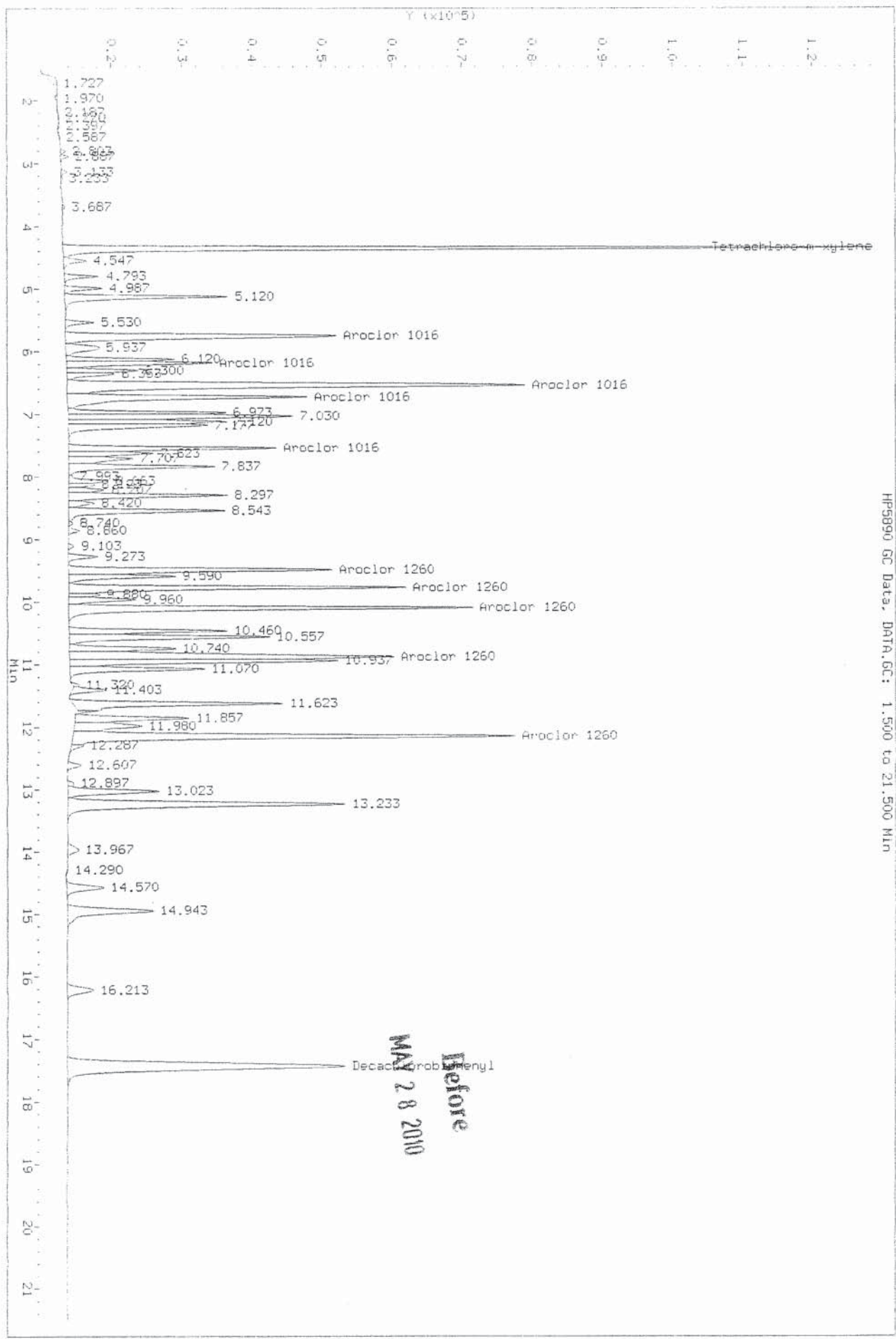
Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

\\Cashtl\Acqudata\GC09\data\052710A_r_b\0527R024.D



SA 5/28/10
Harris

Data File: \\CASH1\Acqudata\GC09\data\052710A.B\0527F024.D
Injection Date: 28-May-2010 00:46
Instrument: GC09.1
Client Sample ID:

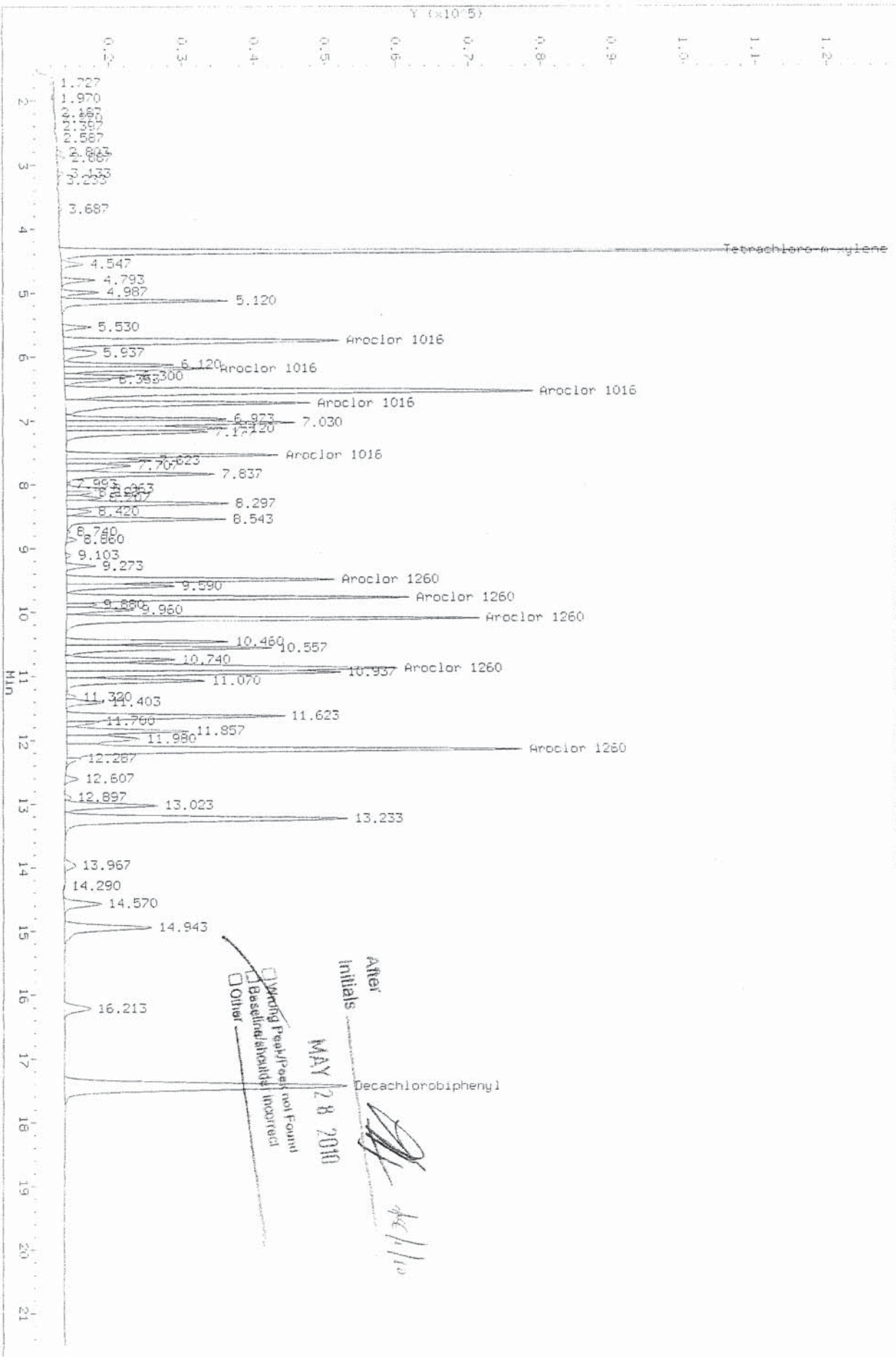


HP5890 GC Data, DATA.GC: 1.500 to 21.500 Min

MAY 28 2010
Before

Data File: \\Casht\Acqudata\GC09\data\052710a.B\05271024.D
 Injection Date: 28-May-2010 00:46
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.500 Min



After Initials
 MAY 28 2010
 Decachlorobiphenyl
 Missing Peak/Peaks not Found
 Baseline/Integrations Incorrect
 Other

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F025.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R025.D
 Inj Date : 28-MAY-2010 01:12
 Sample Info: 1016/1260 @ 1000ppb | PCB5-55I
 Misc Info :
 Cal Date : 28-MAY-2010 13:49
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

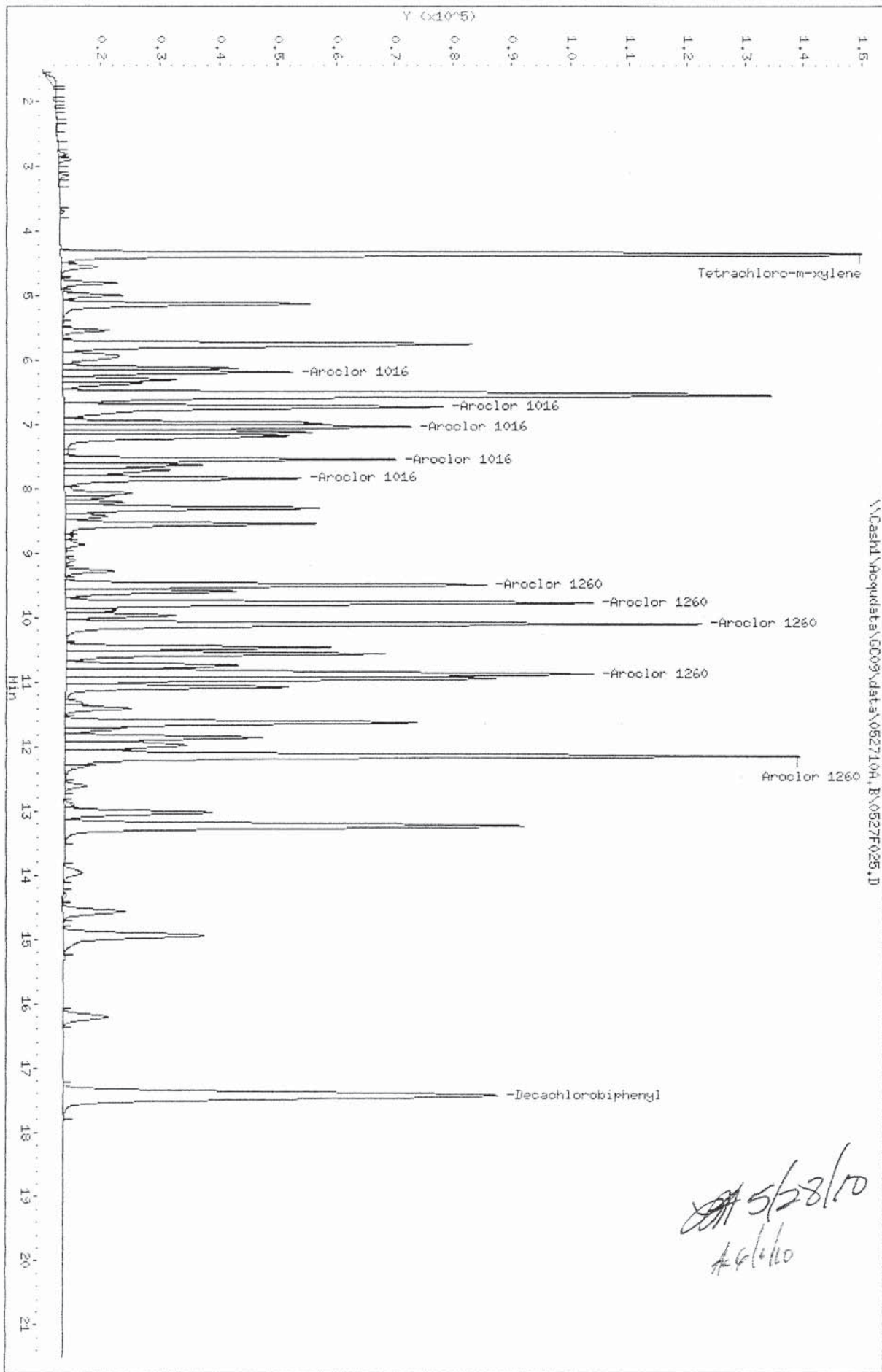
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 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : AR1660.SUB
 Sub List #2 : AR1660.SUB
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.343	5.030	679365	602860	95.6	102		100.00
Aroclor 1016	6.180	6.543	143205	187924	747	1100	80.00- 120.00	100.00
	6.723	7.160	299231	319993	1220	989	162.91- 244.36	208.95
	7.030	7.447	234428	175921	649	1110	145.03- 217.55	163.70
	7.540	7.620	204741	136724	880	1050	115.01- 172.51	142.97
	7.837	7.723	162641	156483	975	1060	76.85- 115.27	113.57
	Average of Peak Amounts =				894	1060		
Aroclor 1260	9.487	10.363	291968	280711	966	1010	80.00- 120.00	100.00
	9.767	10.890	350576	296240	948	998	99.64- 149.46	120.07
	10.093	11.543	432194	381715	954	1020	122.12- 183.18	148.03
	10.870	12.310	439578	255621	1010	1080	109.38- 164.06	150.56
	12.143	13.143	592535	449818	1040	1020	135.68- 203.52	202.95
	Average of Peak Amounts =				984	1020		
Decachlorobiphenyl	17.433	19.077	579519	518864	98.2	101		100.00

5/28/10
Ar 1016/12

Data File: \\Cashd\ncq\data\GC09\data\052710A_E\0527F025.D
Date: 28-May-2010 01:12
Client ID:
Sample Info: 1016/1260 @ 1000ppb | PCB8-651
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Handwritten signature and date:
5/28/10
#6/6/10

Data File: \\Cashd\Acqudata\GC09\data\052710A_r.j\0527R025.D
Date: 28-MAY-2010 01:12

Client ID:

Sample Info: 1016/1260 @ 1000ppb | PCBs-SGI

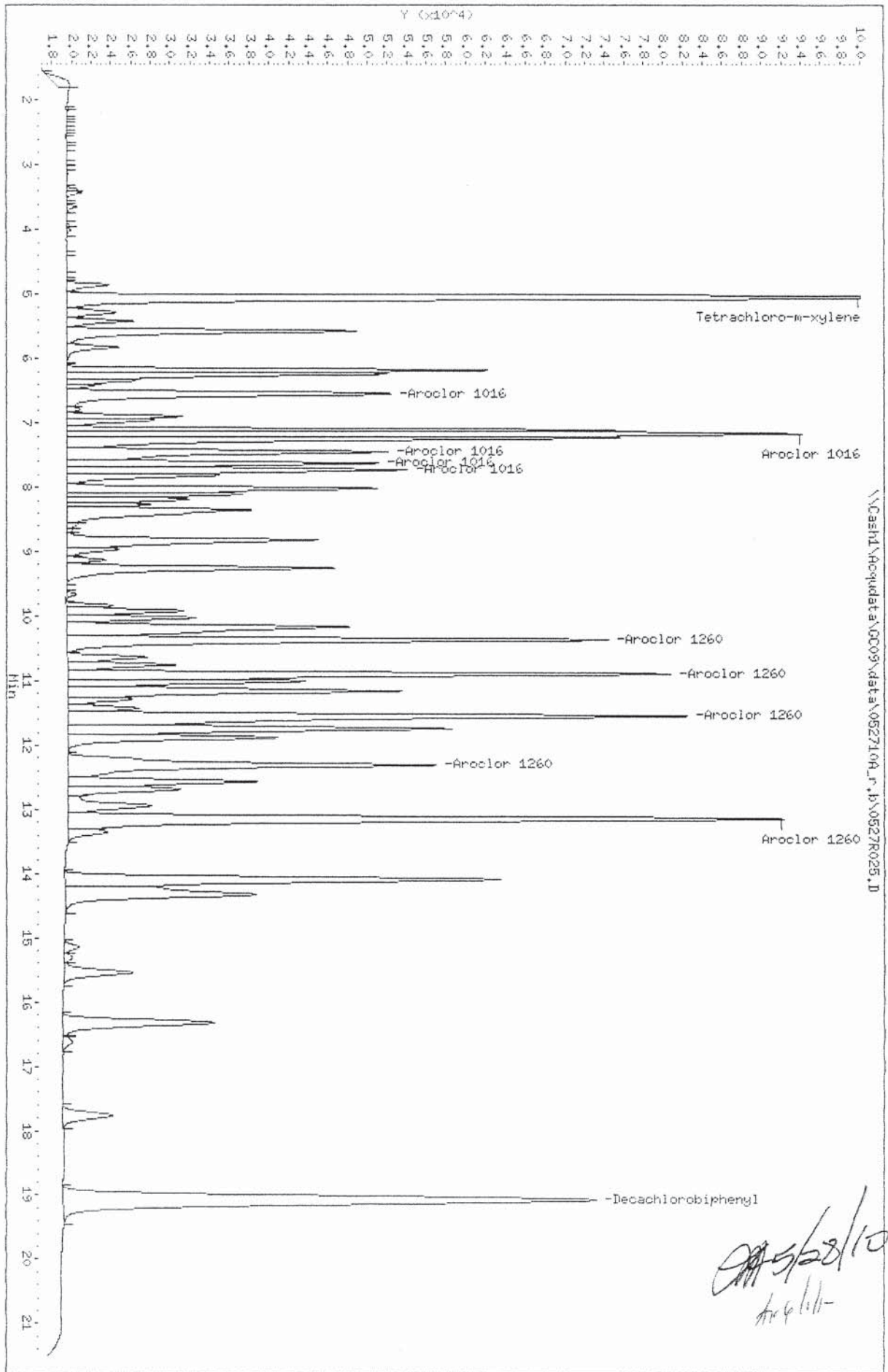
Column Phase: DB-XLB

Instrument: GC09.1

Operator: LHarris

Column diameter: 0.53

\\Cashd\Acqudata\GC09\data\052710A_r.j\0527R025.D



Handwritten signature and date: 5/28/10
LHarris

Data File: \\Cash1\Acqdata\GC09\data\052710A.B\0527F026.D
Report Date: 28-May-2010 17:28

Columbia Analytical Services

Sample #1 : \\Cash1\Acqdata\GC09\data\052710A.B\0527F026.D
Sample #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\0527R026.D
Inj Date : 28-MAY-2010 01:38
Sample Info: 1016/1260 @ 2000ppb | PCB5-55J
Misc Info :
Cal Date : 28-MAY-2010 13:49
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

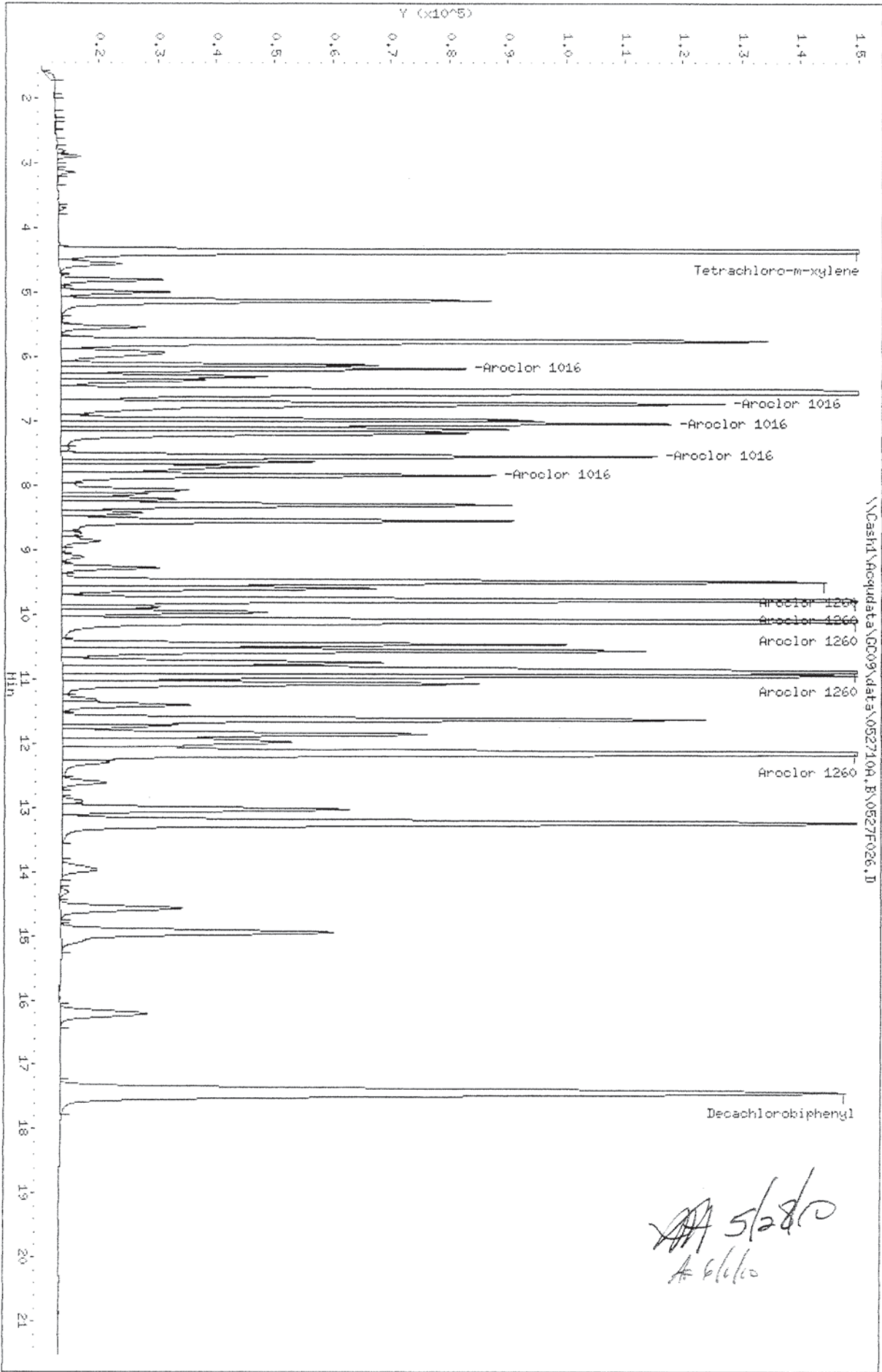
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Method #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1660.SUB
Sub List #2 : AR1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.343	5.030	1221823	1124897	172	191		100.00
Aroclor 1016	6.177	6.543	255219	346420	1560	1960	80.00- 120.00	100.00
	6.720	7.160	530222	581827	1980	1800	162.91- 244.36	207.75
	7.030	7.443	413223	325655	1370	2060	145.03- 217.55	161.91
	7.540	7.620	370775	248279	1690	1900	115.01- 172.51	145.28
	7.833	7.723	298915	278972	1860	1890	76.85- 115.27	117.12
	Average of Peak Amounts =				1690	1920		
Aroclor 1260	9.487	10.360	534792	514161	1770	1850	80.00- 120.00	100.00
	9.767	10.890	633380	539881	1710	1820	99.64- 149.46	118.43
	10.093	11.543	786956	716222	1740	1920	122.12- 183.18	147.15
	10.870	12.307	825913	489934	1910	2080	109.38- 164.06	154.44
	12.140	13.143	1092934	855710	1910	1950	135.68- 203.52	204.37
	Average of Peak Amounts =				1810	1920		
Decachlorobiphenyl	17.433	19.077	1052797	957927	178	187		100.00

AA 5/28/10
Asst. Dir.

Data File: \\Cashtl\Acq\data\GC09\data\052710A.B\0527F026.D
Date: 28-NOV-2010 01:38
Client ID:
Sample Info: 1016/1260 @ 2000ppb | PCB8-853
Column Phase: DB-35MS

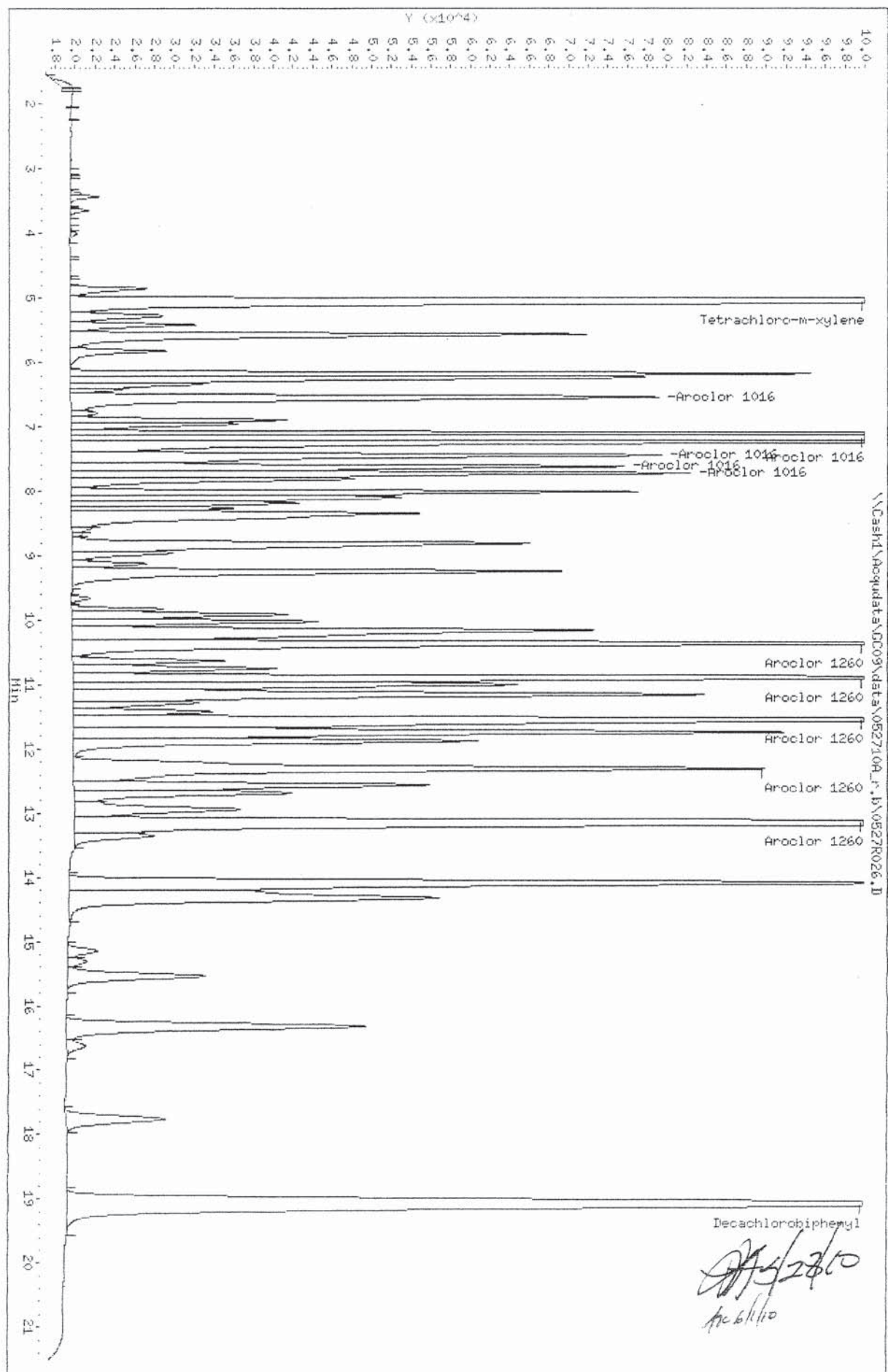
Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Handwritten signature and date:
5/28/10
A. B. Harris

Data File: \\Casha1\hpc\data\GC09\data\052710A_1.r.b\0527R026.D
 Date: 28-May-2010 01:38
 Client ID:
 Sample Info: 1016/1260 @ 2000ppb | PCB5-553
 Column phase: DB-ALB

Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53



Data File: \\Cash1\Acqdata\GC09\data\052710A.B\0527F027.D
 Report Date: 28-May-2010 17:29

Columbia Analytical Services

Sample #1 : \\Cash1\Acqdata\GC09\data\052710A.B\0527F027.D
 Sample #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\0527R027.D
 Inj Date : 28-MAY-2010 02:04
 Sample Info: 1016/1260 @ 5000ppb | PCB5-55K
 Misc Info :
 Cal Date : 28-MAY-2010 13:49
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

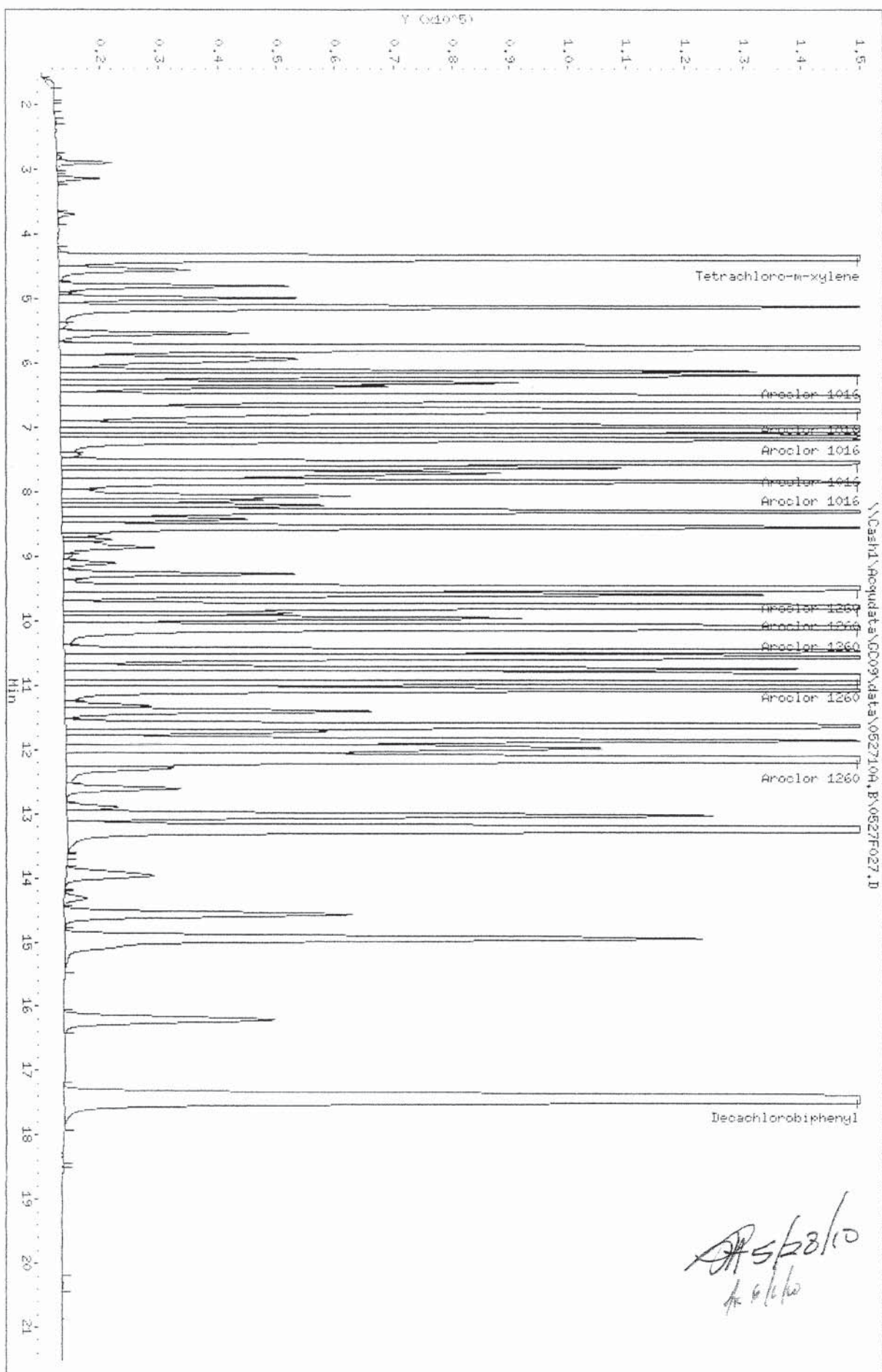
Method #1 : \\Cash1\Acqdata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : AR1660.SUB
 Sub List #2 : AR1660.SUB
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.343	5.030	2611859	2519566	368	428		100.00
Aroclor 1016	6.177	6.543	543843	772733	3840	4220	80.00- 120.00	100.00
	6.720	7.160	1121268	1276275	3920	3950	162.91- 244.36	206.17
	7.030	7.447	878662	742029	3520	4700	145.03- 217.55	161.57
	7.537	7.620	792247	525888	3800	4020	115.01- 172.51	145.68
	7.833	7.723	658716	625893	4210	4240	76.85- 115.27	121.12
	Average of Peak Amounts =				3860	4230		
Aroclor 1260	9.483	10.360	1177390	1159016	3890	4180	80.00- 120.00	100.00
	9.767	10.890	1370255	1216828	3700	4100	99.64- 149.46	116.38
	10.093	11.543	1708055	1670009	3770	4490	122.12- 183.18	145.07
	10.870	12.307	1867377	1167982	4310	4960	109.38- 164.06	158.60
	12.140	13.143	2477559	2003451	4340	4560	135.68- 203.52	210.43
	Average of Peak Amounts =				4000	4460		
Decachlorobiphenyl	17.427	19.073	2333876	2128229	395	415		100.00

Handwritten signature and date:
 M 5/28/10
 H 6/1/10

Data File: \\CASH1\Acqudata\GC09\data\052710A.B\0527F027.D
Date: 28-May-2010 02:04
Client ID:
Sample Info: 1016/1260 @ 5000ppb | PCBs-5SK
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Data File: \\CASH1\ncopydata\0009\data\0527109_r_b\0527R027.D
Date: 28-NOV-2010 02:04

Client ID:

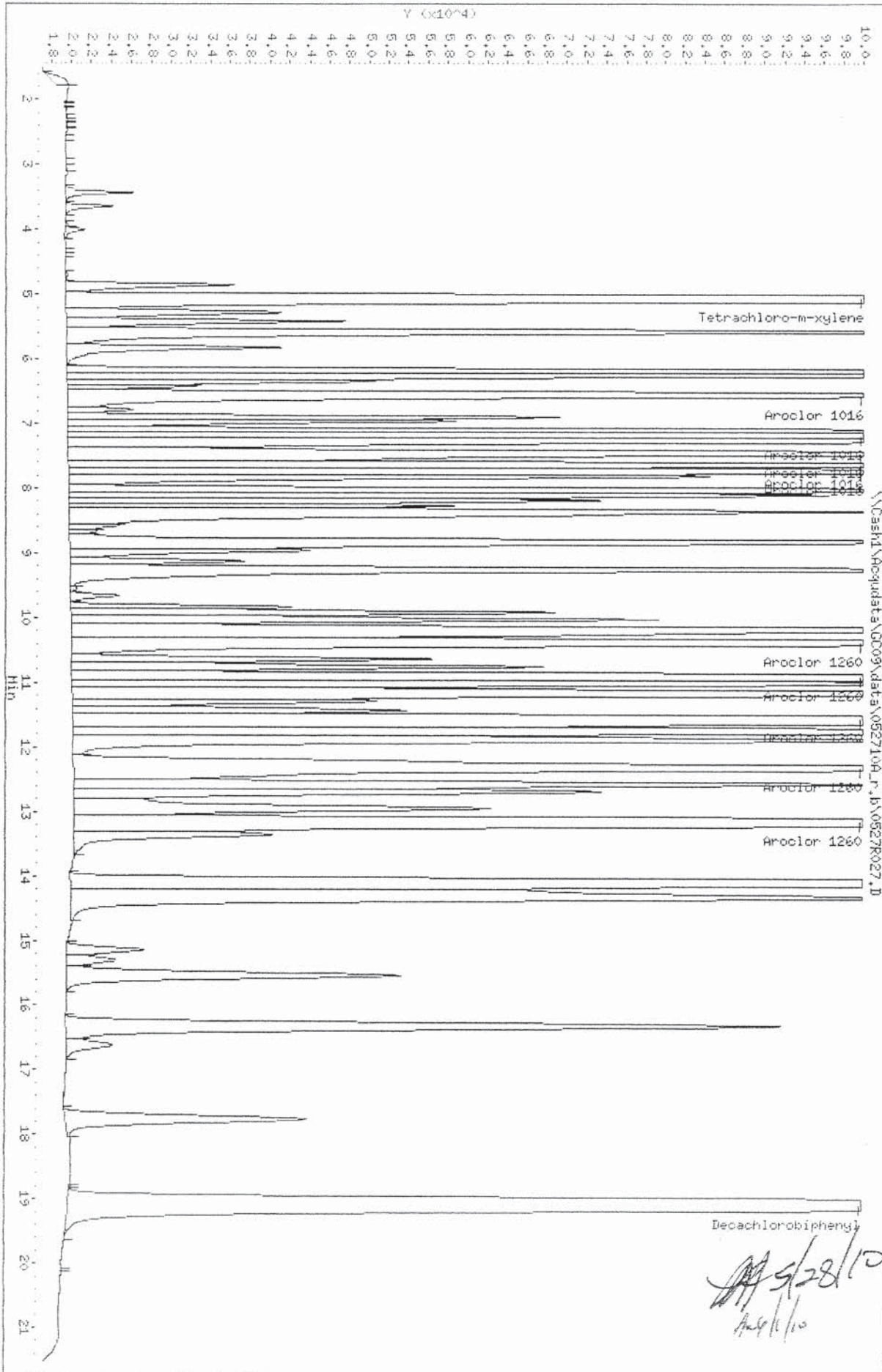
Sample Info: 1016/1260 @ 5000ppb | PCBs-59K

Column phase: DB-XLB

Instrument: GC09.1

Operator: LHarris

Column diameter: 0.53



Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F028.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R028.D
 Inj Date : 28-MAY-2010 02:30
 Sample Info: 1221/1254 @ 50/25ppb | PCB5-52D
 Misc Info :
 Cal Date : 28-MAY-2010 12:04
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1221+1254.sub
 Sub List #2 : 1221+1254.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	3.687	4.687	4988	1123	68.5	22.8	80.00- 120.00	100.00 (M)
	4.543	4.853	2363	1715	57.9	48.6	51.26- 76.90	47.39 (M)
	4.797	5.283	6838	4308	64.9	53.8	133.68- 200.52	137.09 (M)
	4.983	5.410	4212	2937	62.3	52.4	85.57- 128.36	84.44 (M)
	Average of Peak Amounts =				63.4	44.4		
Aroclor 1254	8.543	9.250	11427	11581	27.9	30.1	80.00- 120.00	100.00 (M)
	9.270	9.833	7602	4384	27.1	24.9	61.91- 92.86	66.53 (M)
	9.477	10.027	16454	9244	28.7	25.8	116.61- 174.92	143.99 (M)
	9.887	10.363	12788	3643	27.4	22.6	101.15- 151.73	111.90 (M)
	10.097	10.640	6746	8716	27.0	27.7	53.30- 79.94	59.03 (M)
	Average of Peak Amounts =				27.6	26.2		

QC Flag Legend

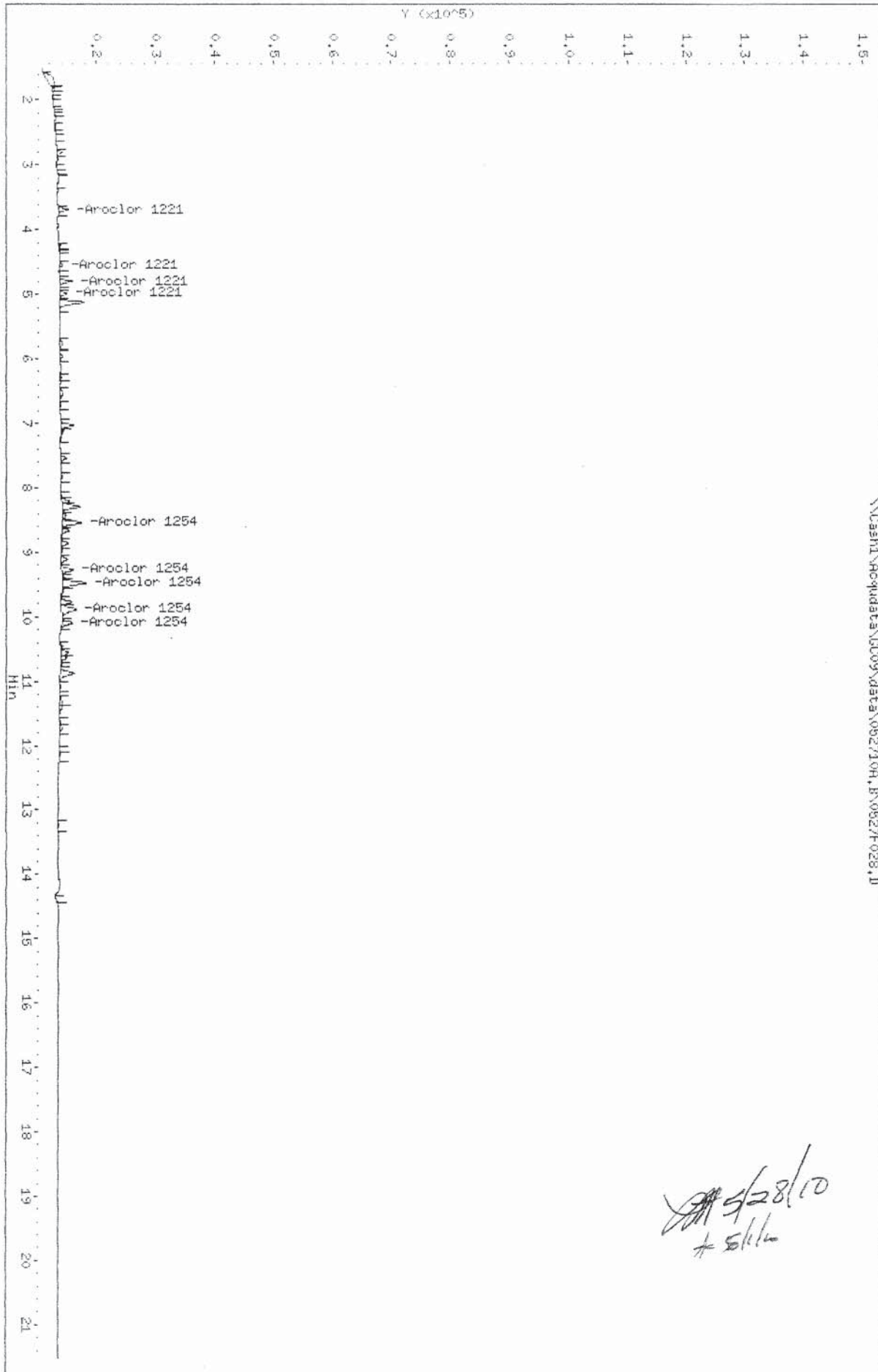
M - Compound response manually integrated.

Handwritten signature: JF 5/28/10
 Agallo

Data File: \\Cashd\Reportdata\GC09\data\052710A.B\0527F028.D
Date: 28-Nov-2010 02:30
Client ID:
Sample Info: 1221/1254 @ 50/25ppb | PCBs-620
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

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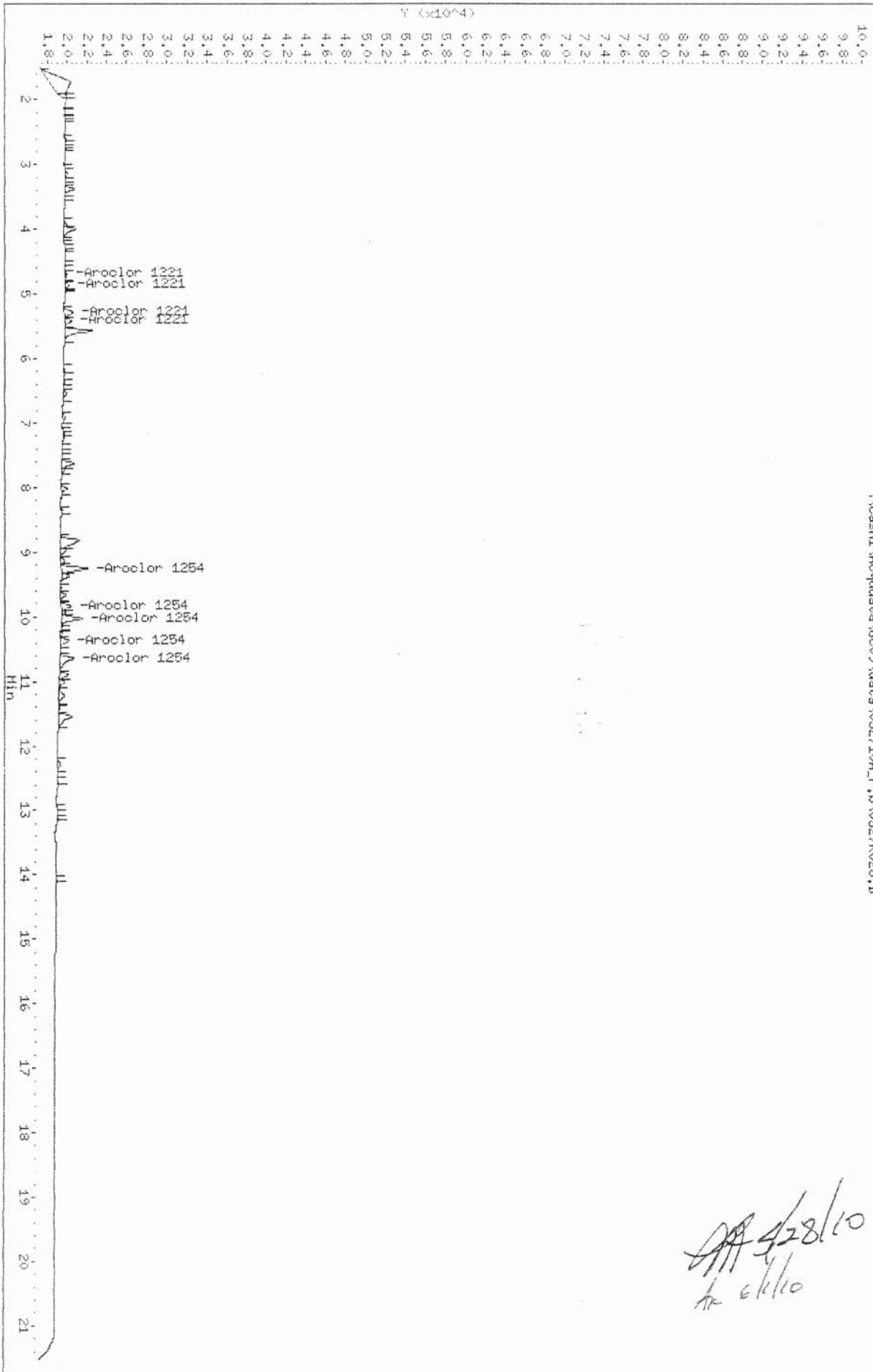


Handwritten signature and date:
5/28/10
5/1/10

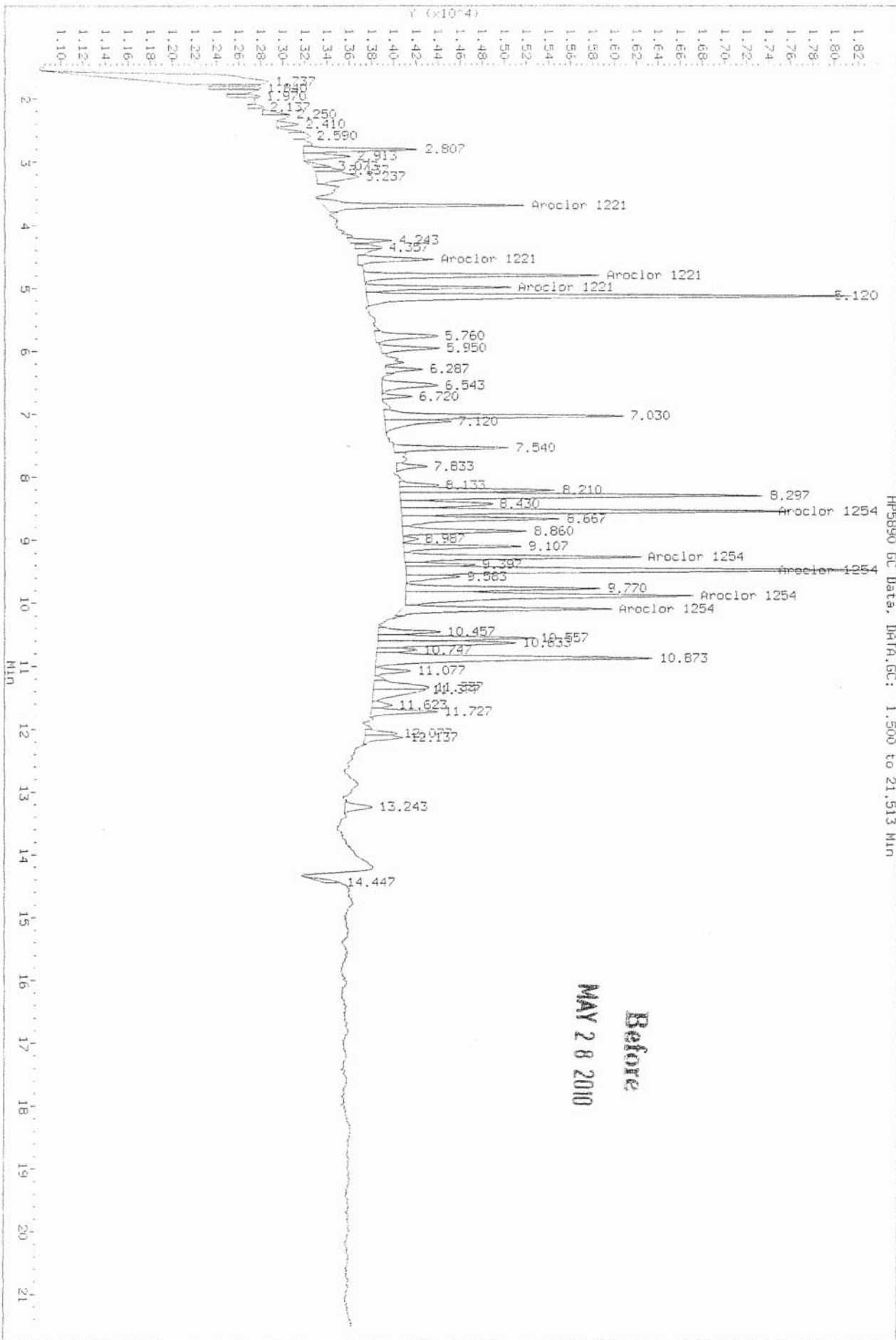
Data File: \\Cashtl\Acqudata\GC09\data\052710A.LR.B\0527R028.D
 Date: 28-Nov-2010 02:30
 Client ID:
 Sample Info: 1221/1254 @ 50/29ppb | PCBs-520
 Column phase: DB-XLB

Instrument: GC09.1
 Operator: L.Harris
 Column diameter: 0.53

\\Cashtl\Acqudata\GC09\data\052710A.LR.B\0527R028.D

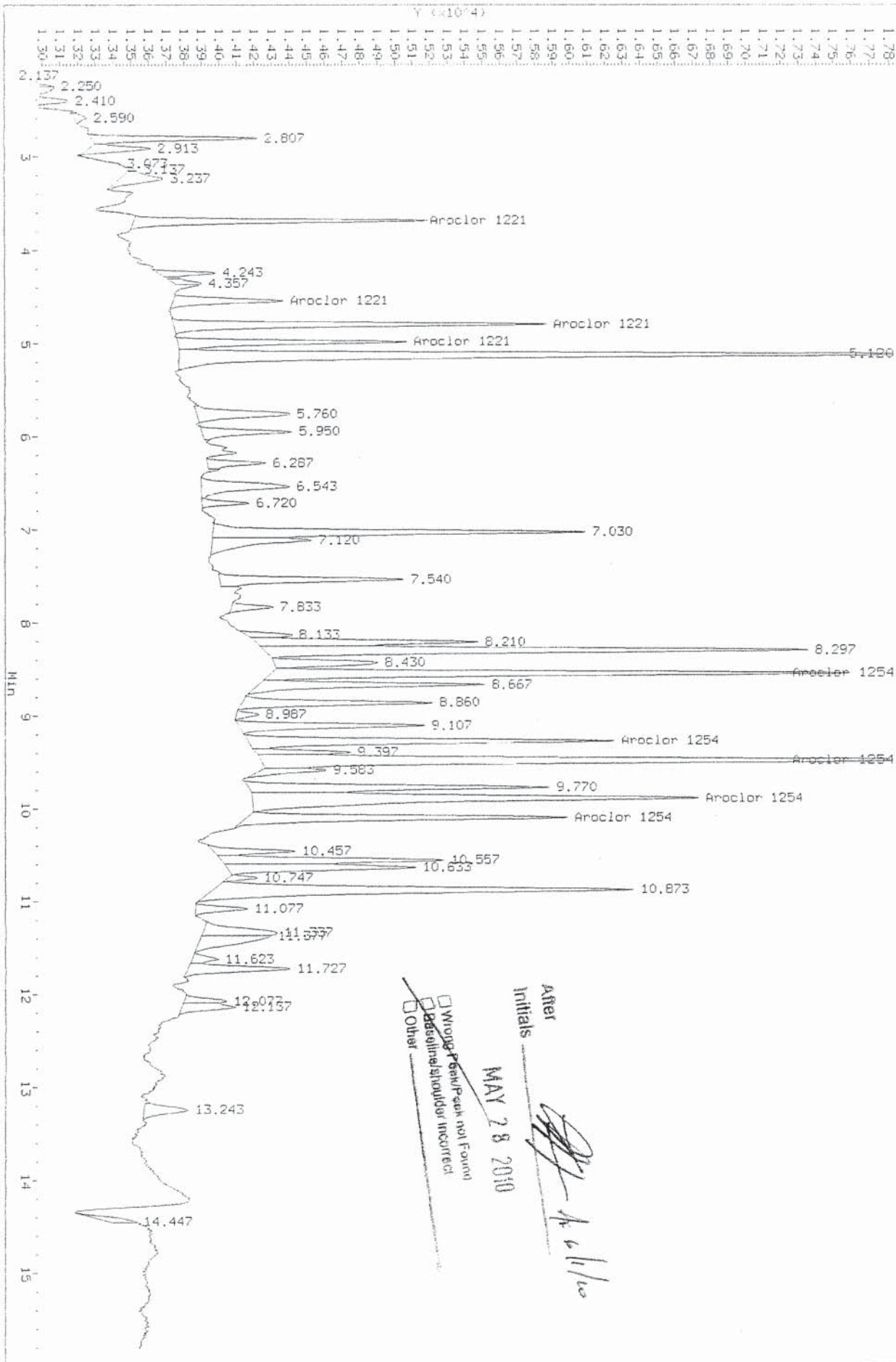


Data File: \\Caesh1\acq\data\GC09\data\0527109.B\05271028.D
 Injection Date: 28-Mar-2010 02:30
 Instrument: GC09.1
 Client Sample ID:



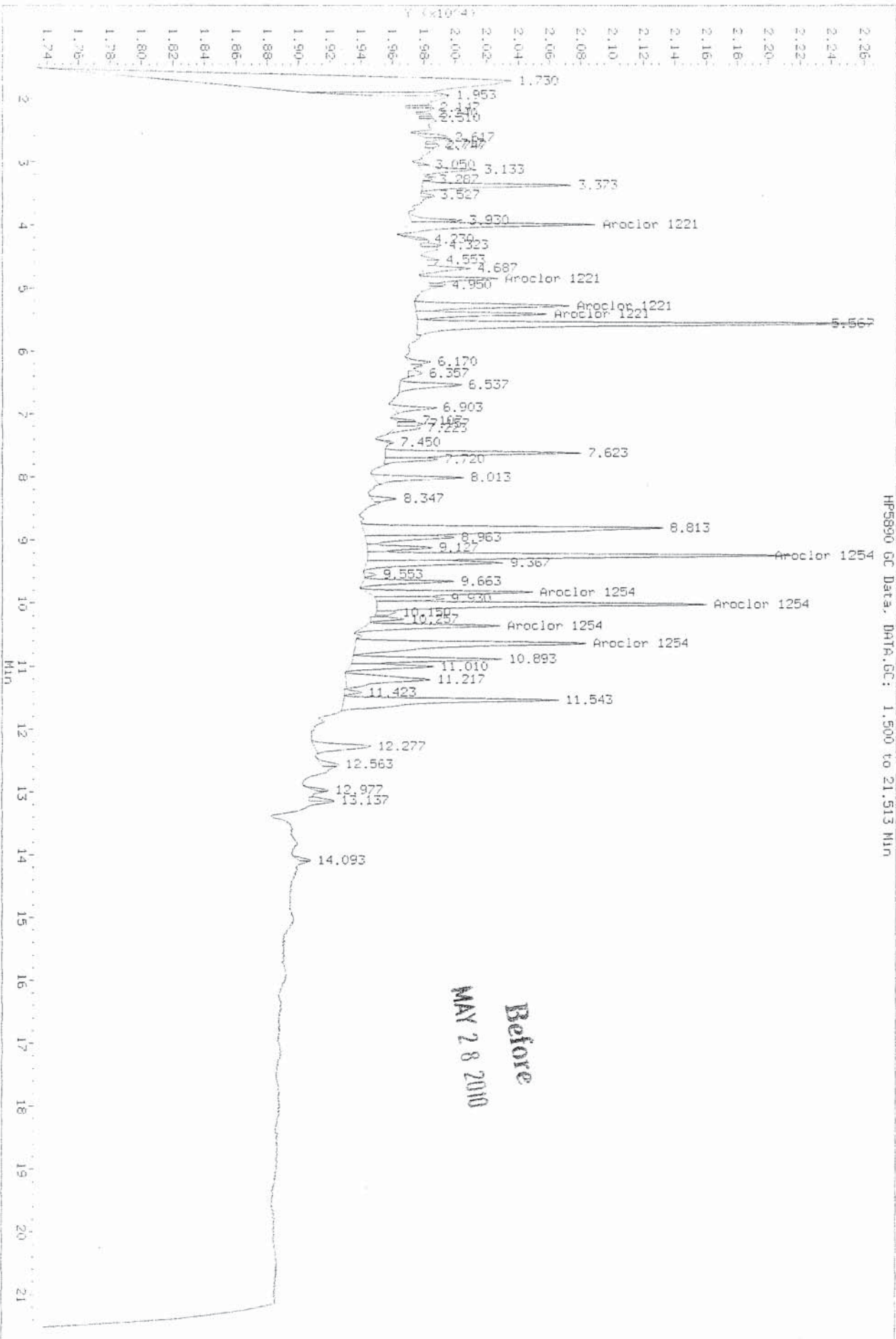
Before
 MAY 28 2010

HP5890 GC Data, DATA.GC: 2.047 to 15.817 Min



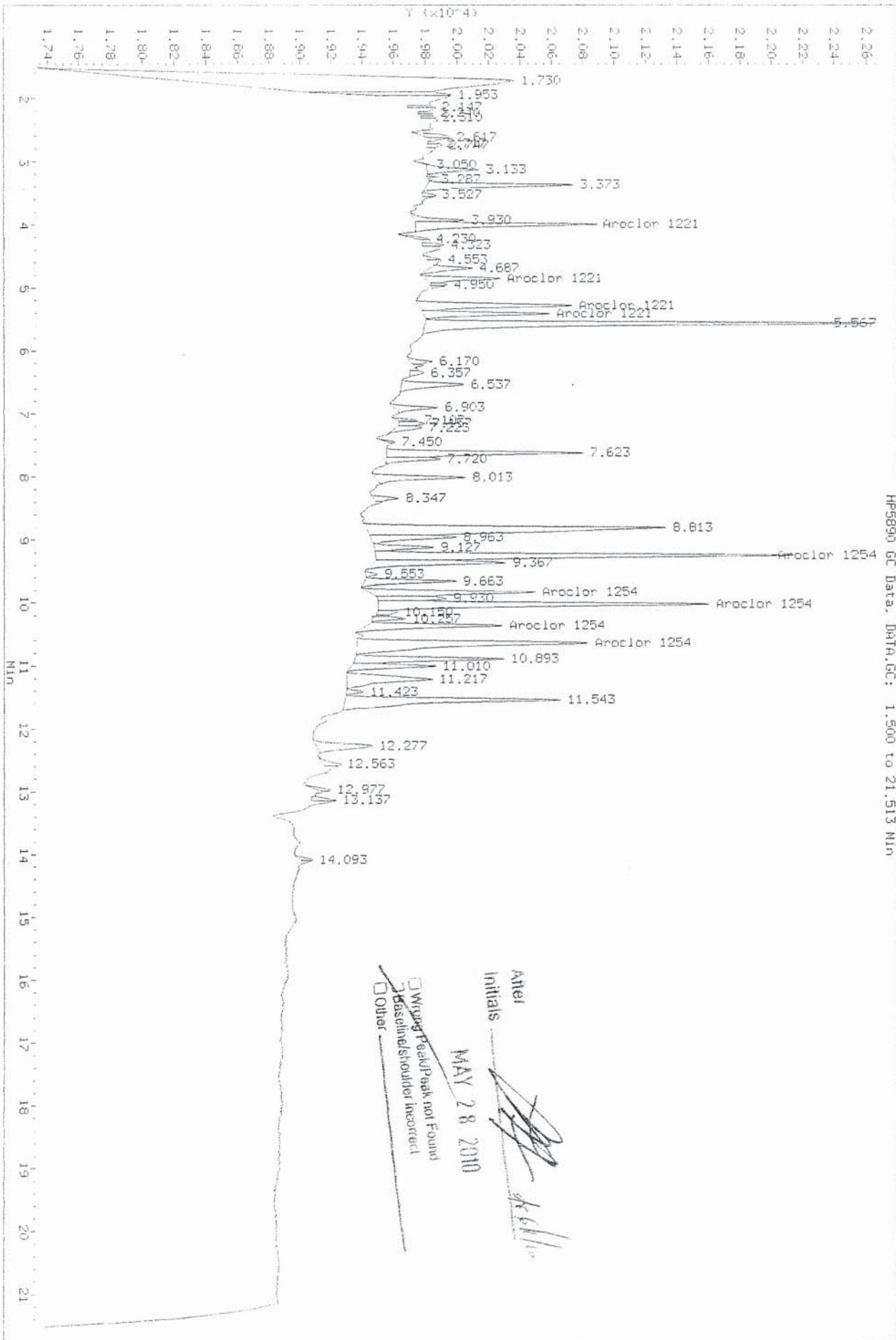
After Initials *[Signature]*
 MAY 28 2010
 Wrong Peak not Found
 Baseline/shoulder incorrect
 Other

Data File: \Vcash1\gc\data\0527108\data\0527108_c.D\0527R028.D
 Injection Date: 28-MAY-2010 02:50
 Instrument: GC09.1
 Client Sample ID:



Before
 MAY 28 2010

Data File: \\Casha1\hegudata\GC09\data\052710A_L.P\0527R028.D
 Injection Date: 28-MAY-2010 02:30
 Instrument: GC09.1
 Client Sample ID:



Alter _____
 Initials _____
 MAY 28 2010
 Wrong Peak/Not Found
 Baseline/shoulder incorrect
 Other _____

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F029.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R029.D
 Inj Date : 28-MAY-2010 02:56
 Sample Info: 1221/1254 @ 100/50ppb | PCB5-52E
 Misc Info :
 Cal Date : 28-MAY-2010 12:04
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1221+1254.sub
 Sub List #2 : 1221+1254.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
=====								
Aroclor 1221	3.687	4.690	9654	2121	136	55.2	80.00- 120.00	100.00 (M)
	4.547	4.850	4981	4103	123	116	51.26- 76.90	51.59 (M)
	4.797	5.283	13025	8959	124	112	133.68- 200.52	134.92 (M)
	4.987	5.410	7707	6218	116	111	85.57- 128.36	79.84 (M)
	Average of Peak Amounts =				125	98.6		
Aroclor 1254	8.543	9.250	24280	22371	60.2	58.2	80.00- 120.00	100.00 (M)
	9.273	9.833	15302	8235	54.6	46.8	61.91- 92.86	63.02 (M)
	9.477	10.027	33727	17080	58.9	47.8	116.61- 174.92	138.91 (M)
	9.887	10.363	24834	7183	53.5	44.7	101.15- 151.73	102.28 (M)
	10.097	10.640	13034	15498	52.7	49.3	53.30- 79.94	53.68 (M)
	Average of Peak Amounts =				56.0	49.4		

QC Flag Legend

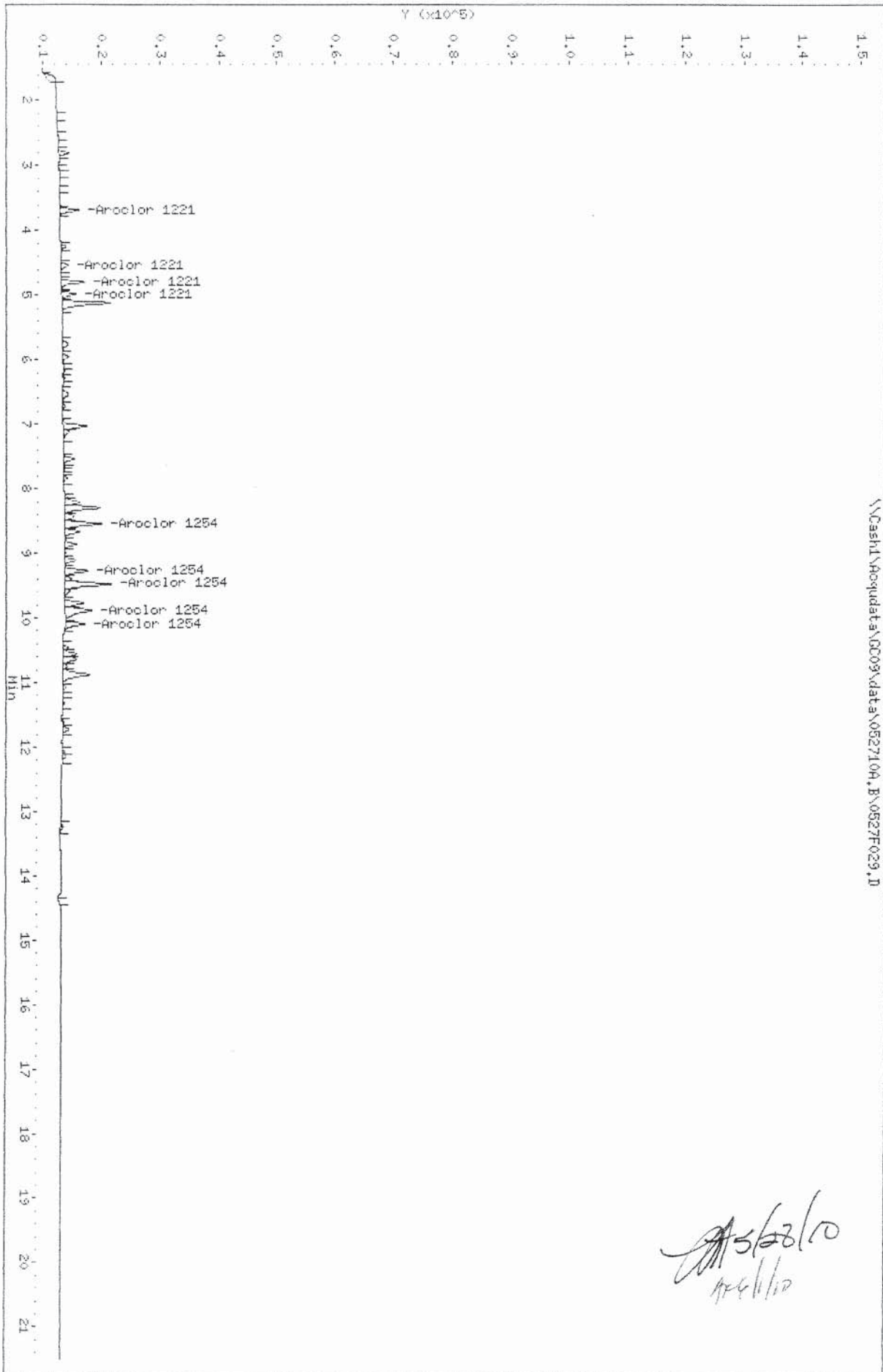
M - Compound response manually integrated.

Handwritten signature:
 5/28/10
 A. G. L. / 100

Data File: \\CASH1\hoqudata\GC09\data\052710A.B\0527F029.D
Date: 28-MAY-2010 02:56
Client ID:
Sample Info: 1221/1254 @ 100%/50ppb | PCB5-53E
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

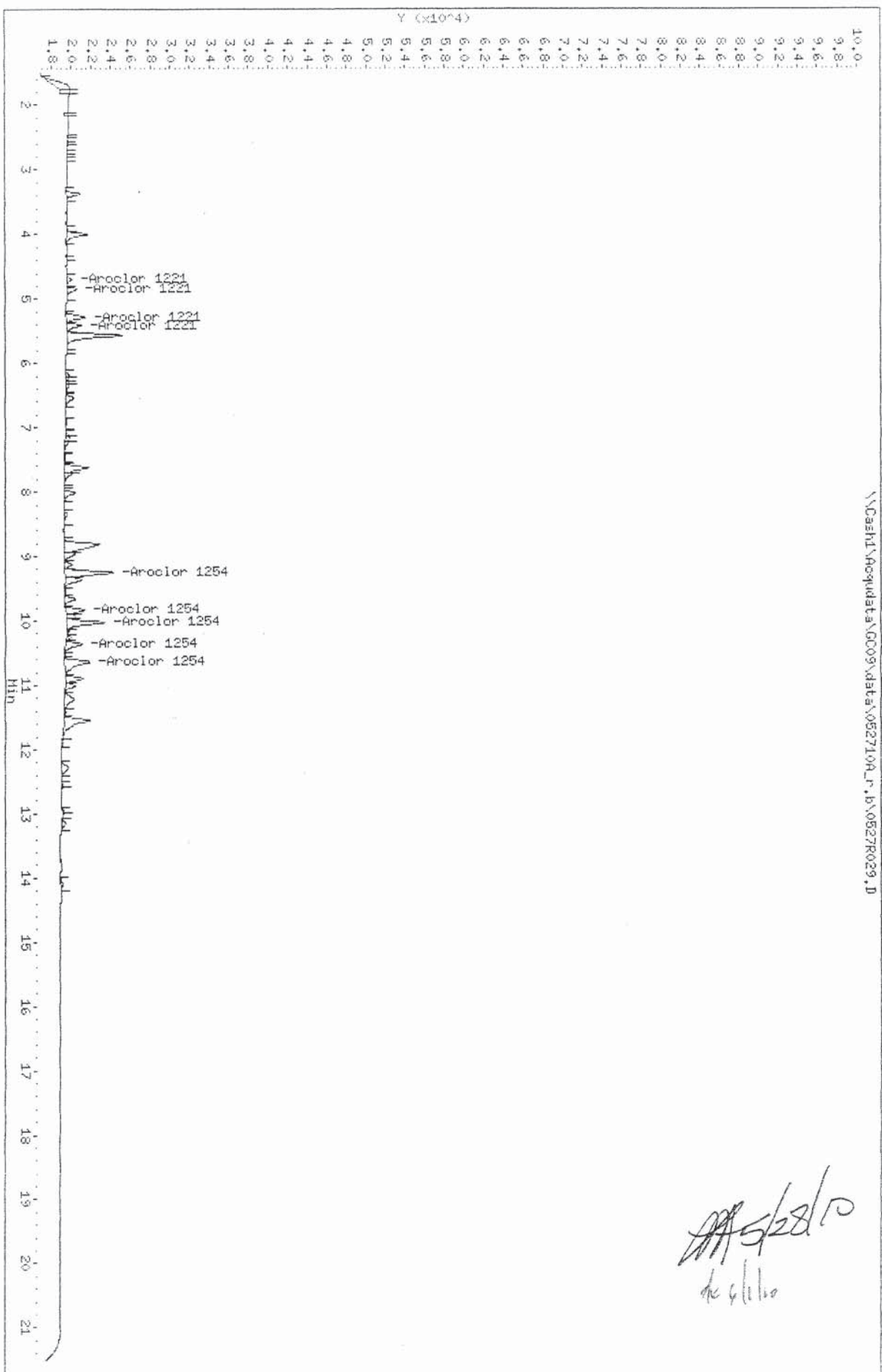
\\CASH1\hoqudata\GC09\data\052710A.B\0527F029.D



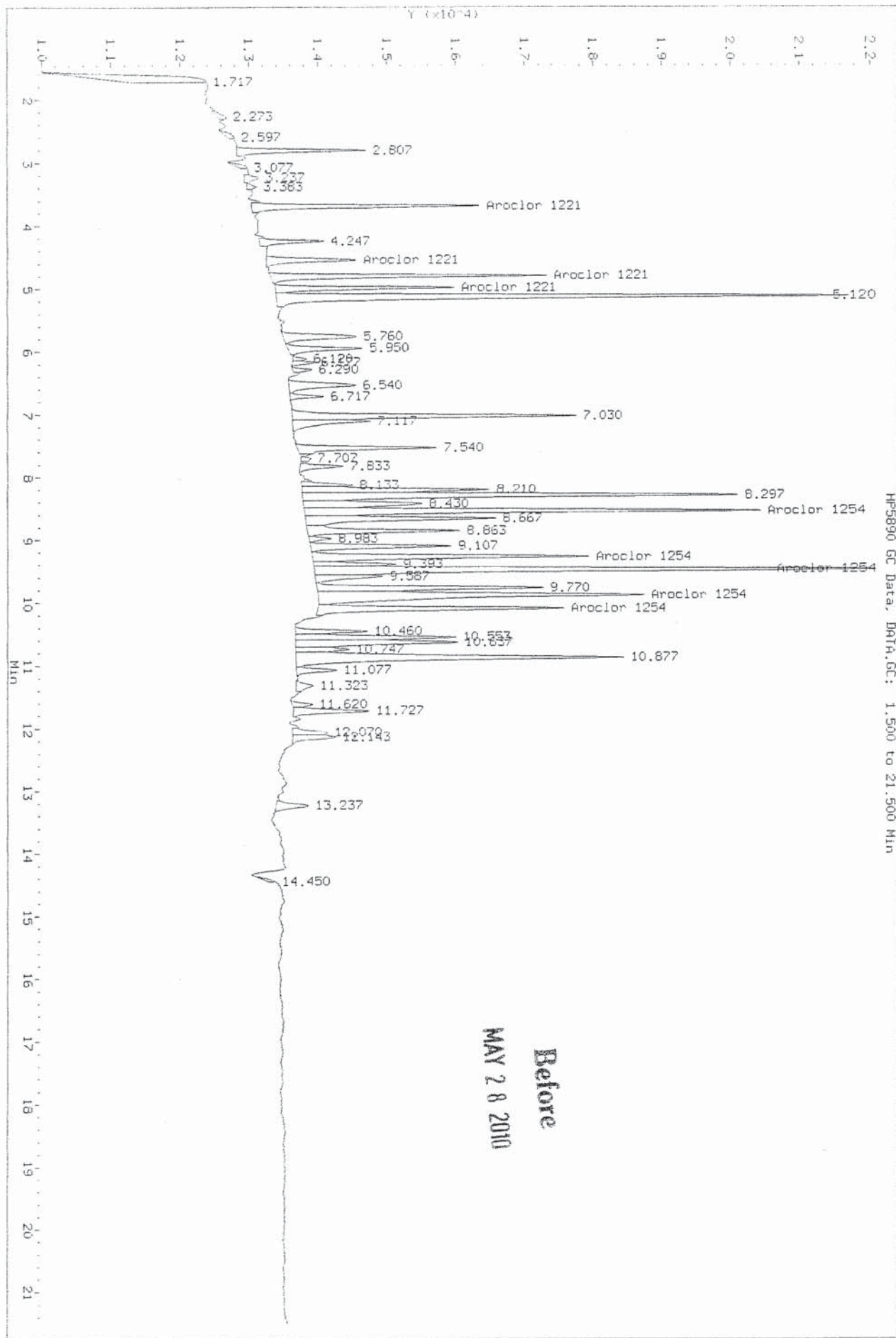
Data File: \\CASH1\Acquidata\GC09\data\052710A.LR.B\0527R029.D
 Date: 28-MAY-2010 02:56
 Client ID:
 Sample Info: 1221/1254 @ 100/50ppb | PCB5-62E
 Column phase: DB-XLB

Instrument: GC09.i
 Operator: LHarris
 Column diameter: 0.53

\\CASH1\Acquidata\GC09\data\052710A.LR.B\0527R029.D



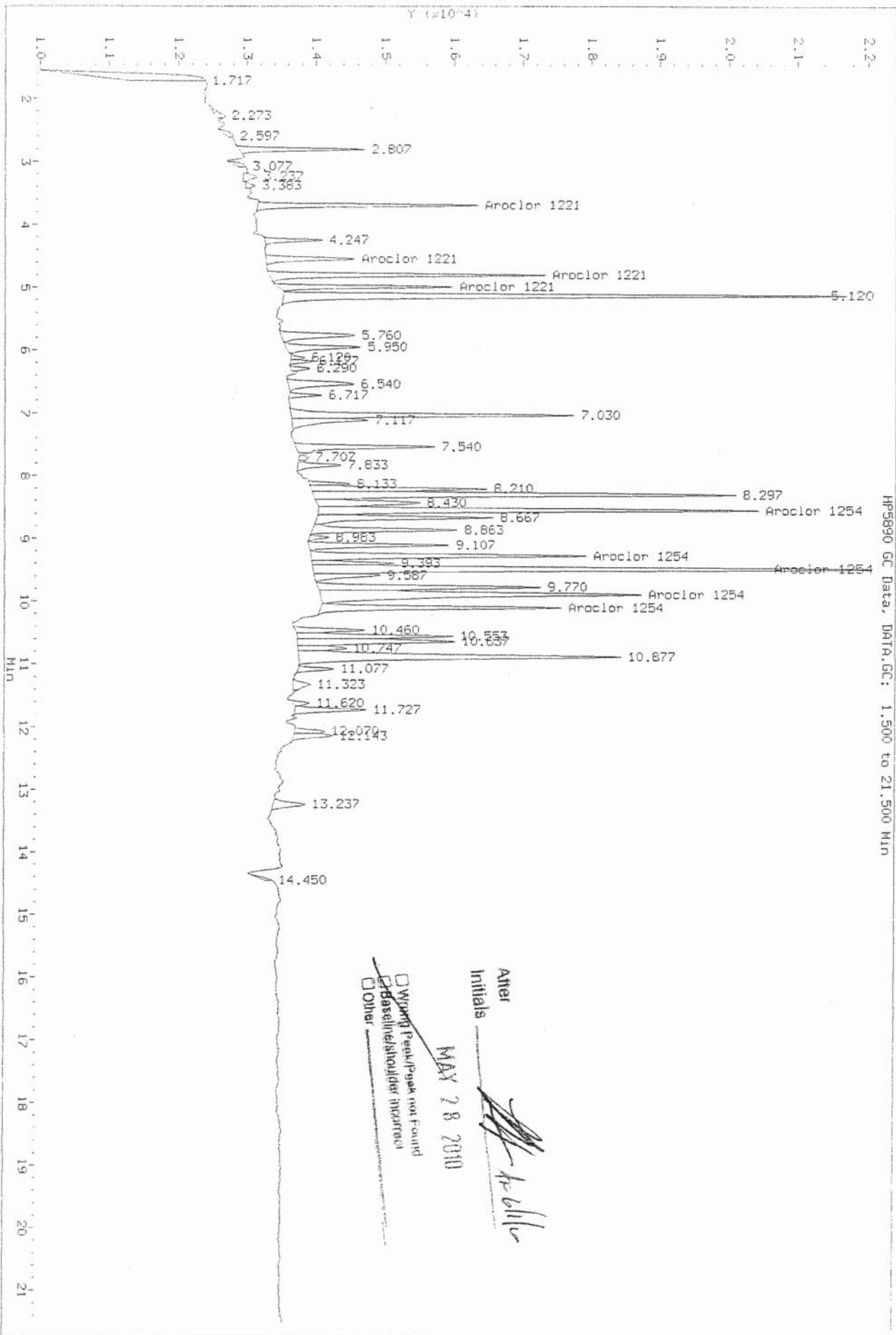
Data File: \\Cash1\Acq\data\GC09\data\0527104.B\05271029.D
Injection Date: 28-May-2010 02:56
Instrument: GC09.1
Client Sample ID:



HF5890 GC Data, DATA.GC: 1.500 to 21.500 Min

Before
MAY 28 2010

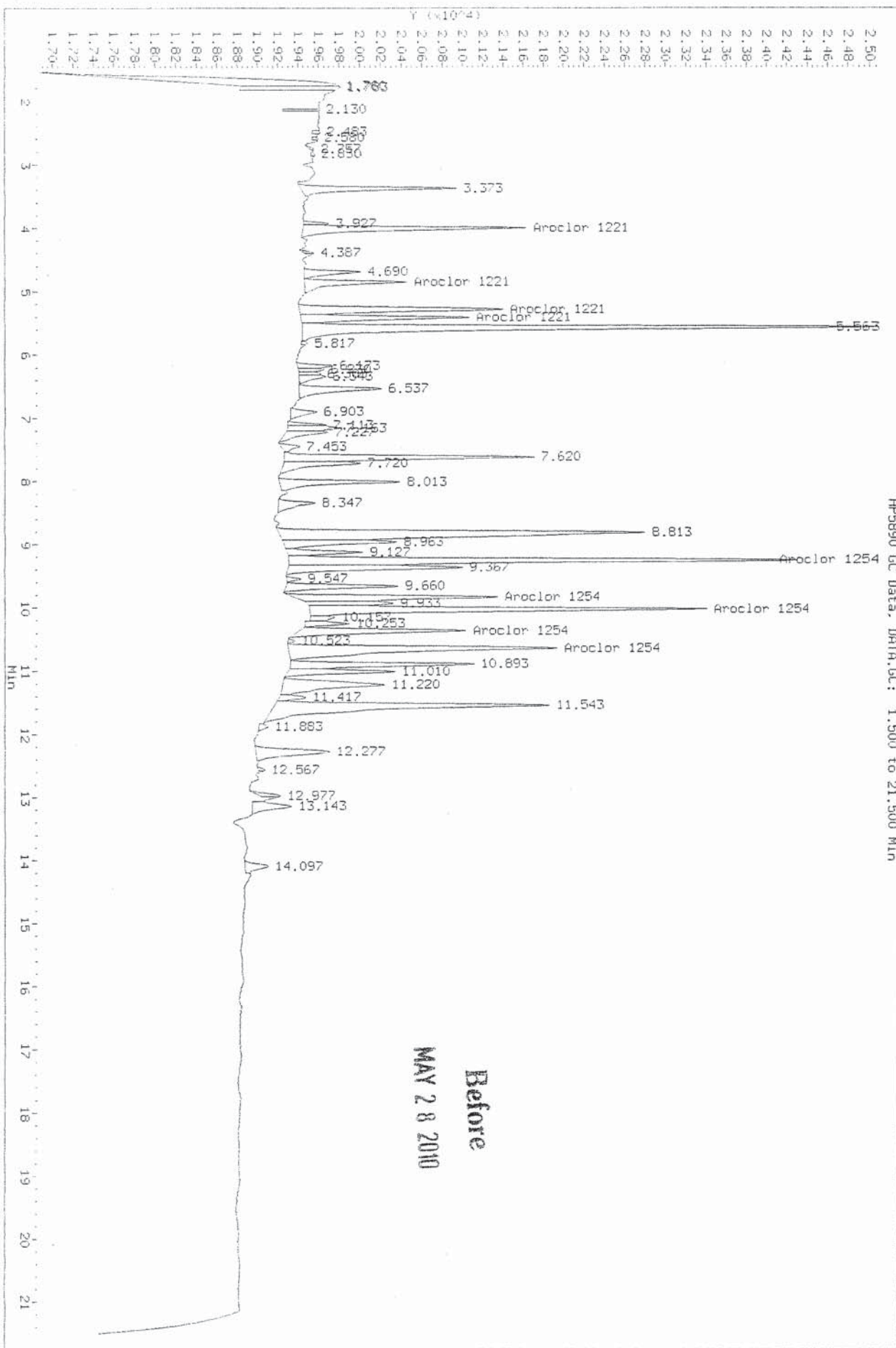
Data File: \\Cash1\Acq\data\GC09\data\0527104.B\0527F029.D
 Injection Date: 28-May-2010 02:56
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.500 MIN

Alter _____
 Initials *[Signature]*
 MAY 28 2010
 Warning Peak/peak not found
 Baseline/shoulder incorrect
 Other _____

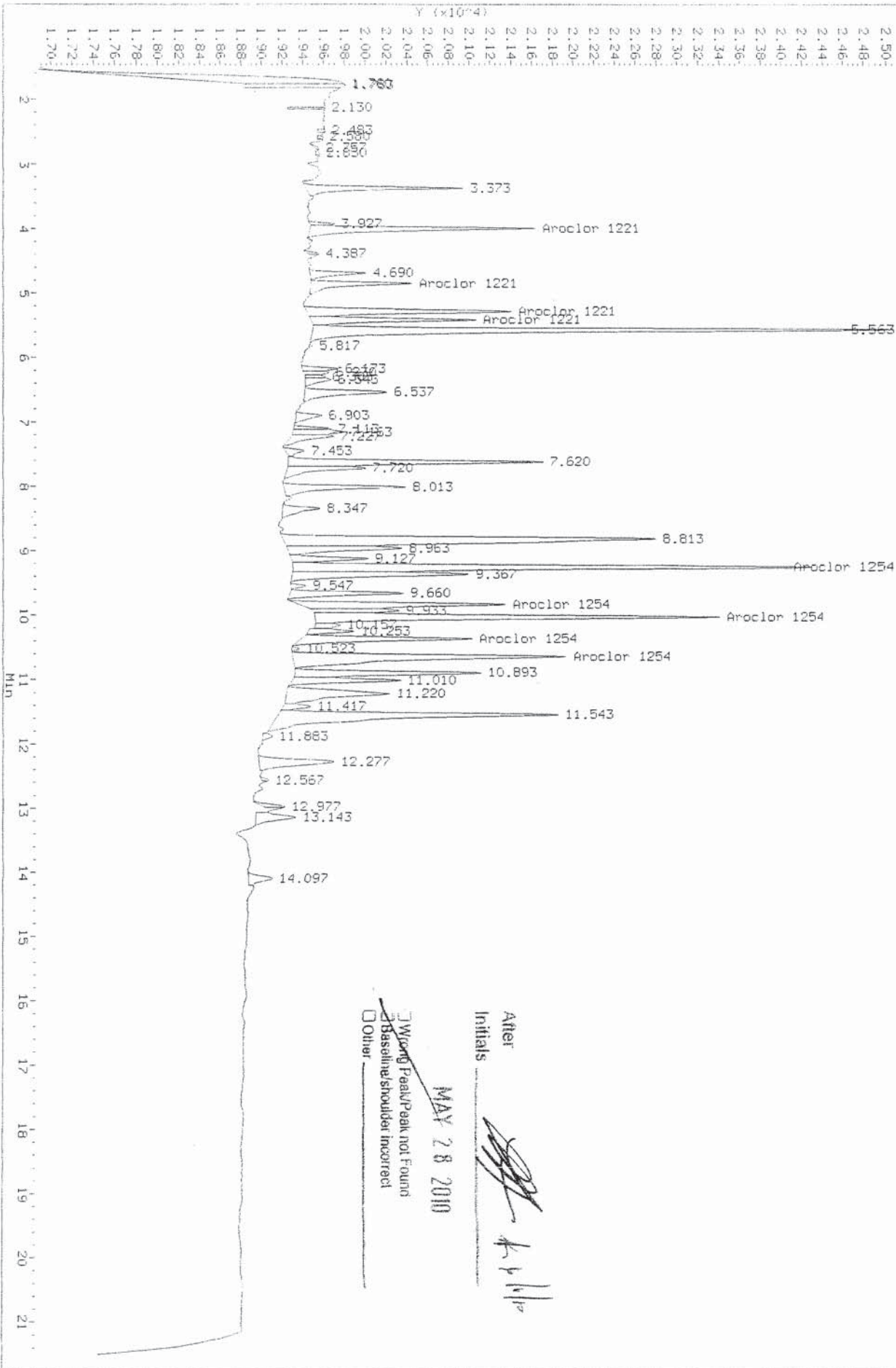
Data File: \\Cash\Acqudata\GC09\data\052710A_r_b\0527R029.D
Injection Date: 28-May-2010 02:56
Instrument: GC09.1
Client Sample ID:



Before
MAY 28 2010

Data File: \\Cash1\Acq\data\GC09\data\052710A_r_b\0527R029.D
 Injection Date: 28-May-2010 02:56
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.500 MIN



After Initials 
 MAY 28 2010
 K P H

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F030.D
Report Date: 28-May-2010 17:29

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F030.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R030.D
Inj Date : 28-MAY-2010 03:22
Sample Info: 1221/1254 @ 1000/500ppb | PCB5-52F
Misc Info :
Cal Date : 28-MAY-2010 12:04
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : 1221+1254.sub
Sub List #2 : 1221+1254.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	3.687	4.687	71928	22659	1010	590	80.00- 120.00	100.00 (M)
	4.543	4.850	43264	40044	1070	1140	51.26- 76.90	60.15 (M)
	4.797	5.283	108157	86110	1030	1080	133.68- 200.52	150.37 (M)
	4.983	5.410	71992	61777	1080	1100	85.57- 128.36	100.09 (M)
	Average of Peak Amounts =				1050	978		
Aroclor 1254	8.540	9.250	219677	202310	545	526	80.00- 120.00	100.00 (M)
	9.270	9.833	149800	96832	536	550	61.91- 92.86	68.19 (M)
	9.473	10.023	304398	197264	532	552	116.61- 174.92	138.57 (M)
	9.880	10.363	252087	93897	545	584	101.15- 151.73	114.75 (M)
	10.093	10.637	136255	169734	554	540	53.30- 79.94	62.03 (M)
	Average of Peak Amounts =				542	550		

QC Flag Legend

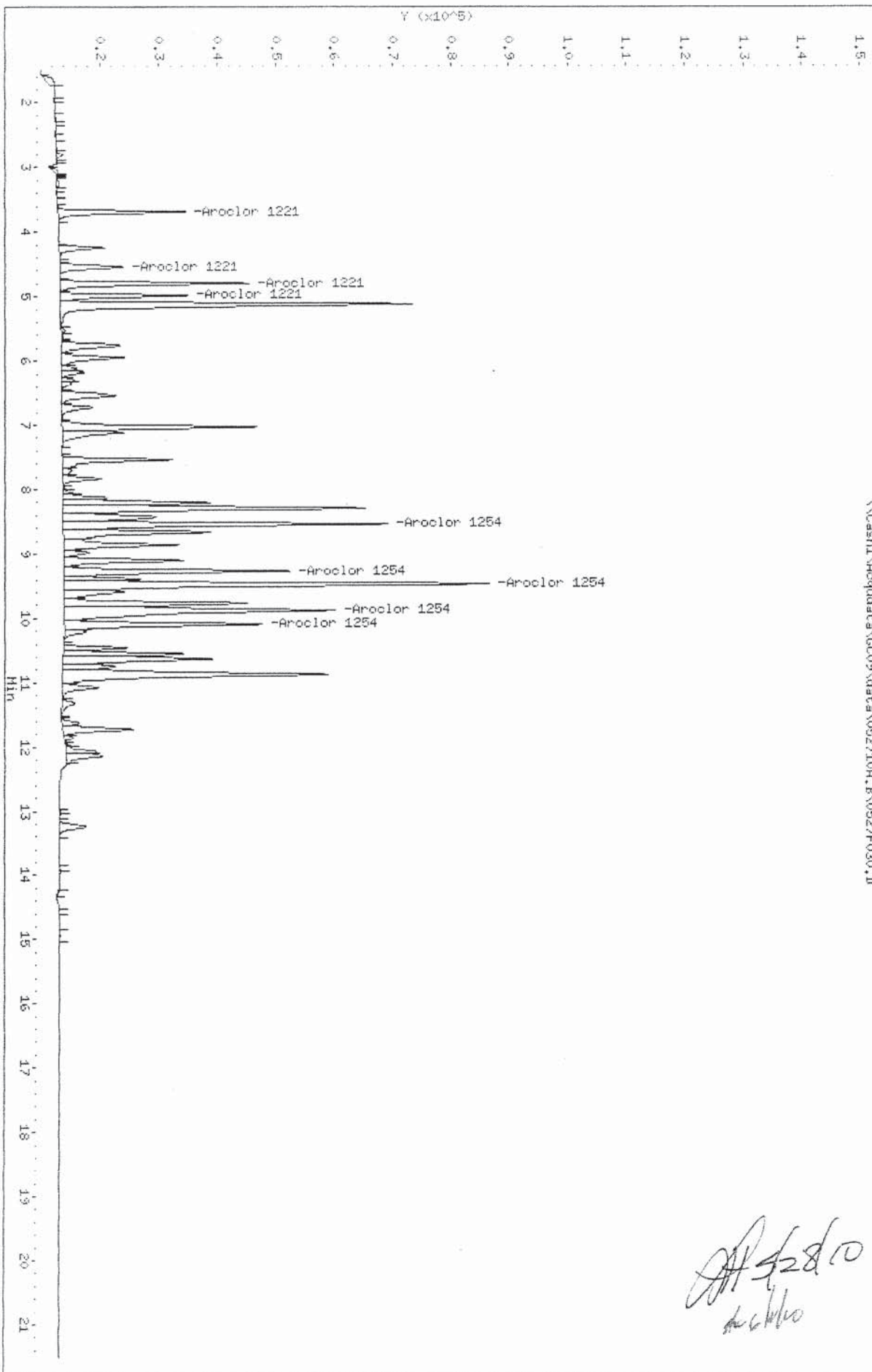
M - Compound response manually integrated.

AS/28/10
to 6/1/10

Data File: \\Casht1\Acqudata\GC09\data\052710A.B\0527F030.D
Date: 28-MAY-2010 03:22
Client ID:
Sample Info: 1221/1254 @ 1000/500ppb | PCB5-52F
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

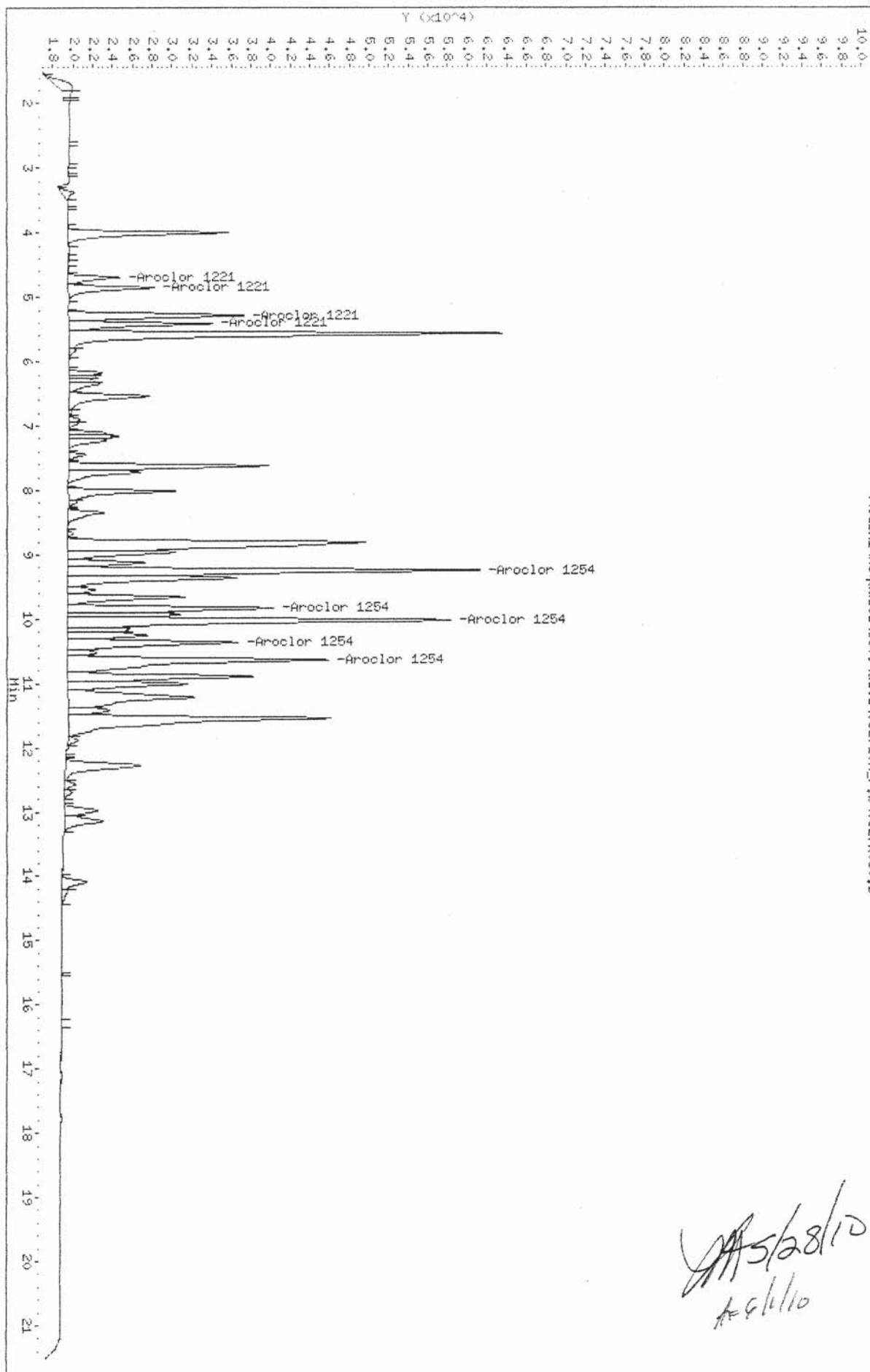
\\Casht1\Acqudata\GC09\data\052710A.B\0527F030.D



Data File: \\CASH1\Acquidata\GC09\data\052710A_r.b\0527R030.D
Date: 28-MAR-2010 03:22
Client ID:
Sample Info: 1221/1254 @ 1000/500ppb | PCBs-SEF
Column phase: DB-XLB

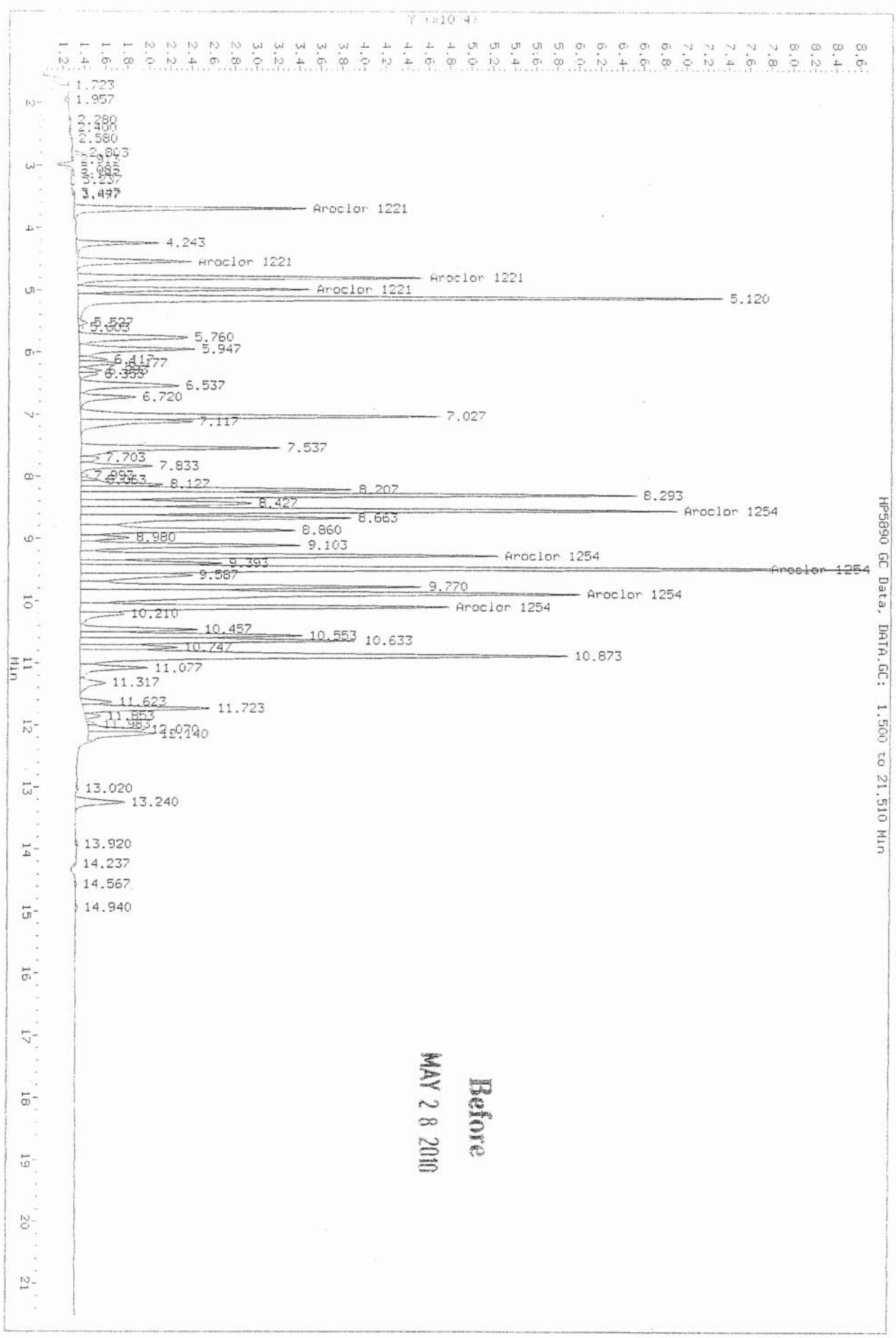
Instrument: GC09.i
Operator: LHarris
Column diameter: 0.53

\\CASH1\Acquidata\GC09\data\052710A_r.b\0527R030.D



Handwritten signature and date:
5/28/10
A. S. Harris

Data File: \\Casali1\acq\data\GC09\data\052710A.B\0527F030.D
 Injection Date: 28-May-2010 03:22
 Instrument: GC09.1
 Client Sample ID:

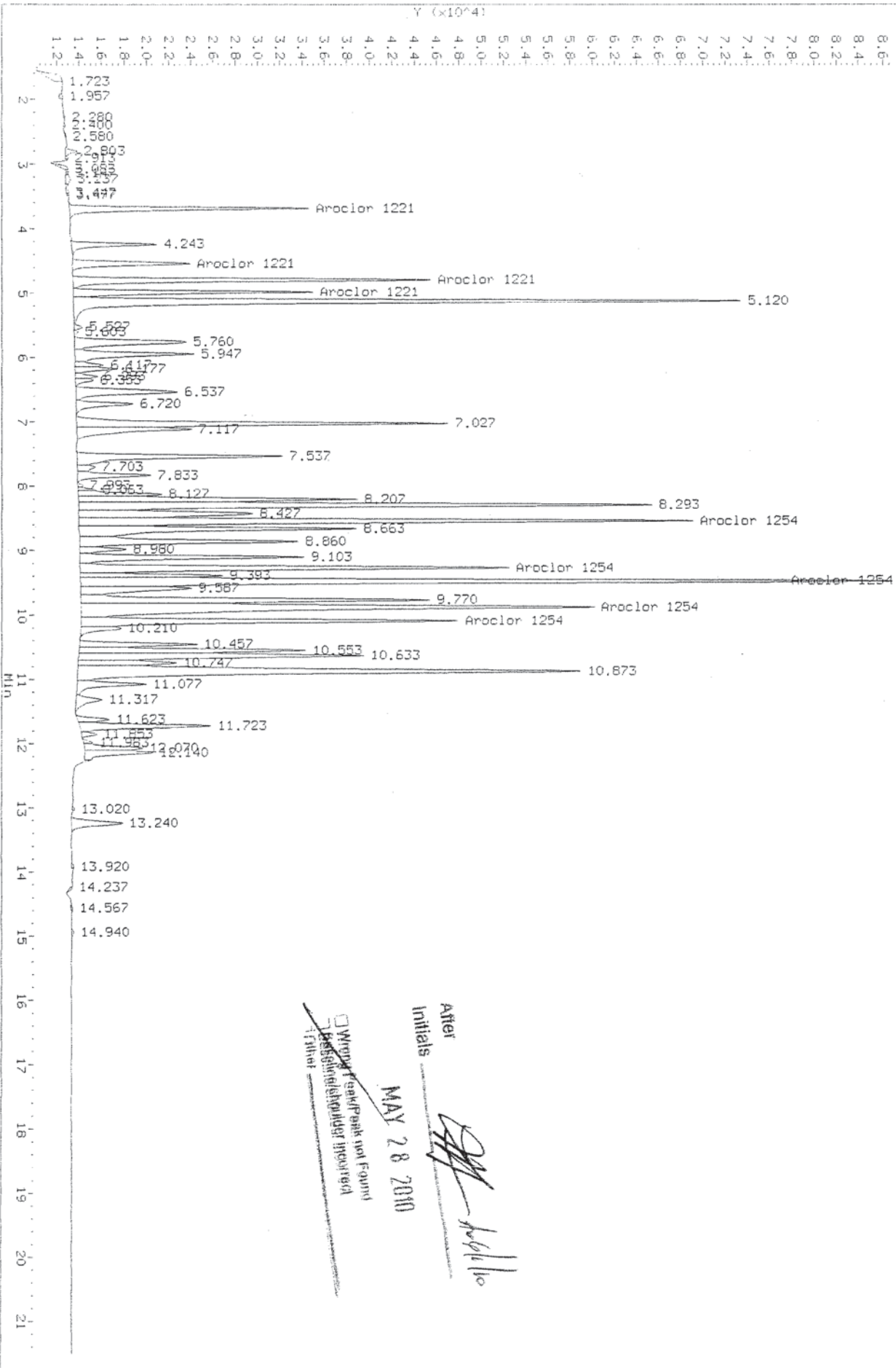


Before
 MAY 28 2010

HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min

Data File: \\Cash\Acqudata\GC09\data\052710A.B\0527F030.D
 Injection Date: 28-MAY-2010 03:22
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min



Wrong Peak not Found
 Peak/Retention Time Correct
 Other
 After Initials _____
 MAY 28 2010
[Signature]

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F031.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R031.D
 Inj Date : 28-MAY-2010 03:48
 Sample Info: 1221/1254 @ 2000/1000ppb | PCB5-52G
 Misc Info :
 Cal Date : 28-MAY-2010 12:04
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1221+1254.sub
 Sub List #2 : 1221+1254.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	3.687	4.687	122122	41167	1720	1310	80.00- 120.00	100.00 (M)
	4.543	4.850	77462	72656	1930	2060	51.26- 76.90	63.43 (M)
	4.797	5.283	193426	159066	1840	1990	133.68- 200.52	158.39 (M)
	4.983	5.410	127548	113283	1910	2020	85.57- 128.36	104.44 (M)
	Average of Peak Amounts =					1850	1840	
Aroclor 1254	8.540	9.247	390024	362273	965	942	80.00- 120.00	100.00 (M)
	9.270	9.830	278332	180264	992	1020	61.91- 92.86	71.36 (M)
	9.473	10.023	555094	365880	967	1020	116.61- 174.92	142.32 (M)
	9.880	10.360	462920	171964	996	1070	101.15- 151.73	118.69 (M)
	10.093	10.633	250662	312572	1010	994	53.30- 79.94	64.27 (M)
Average of Peak Amounts =					986	1010		

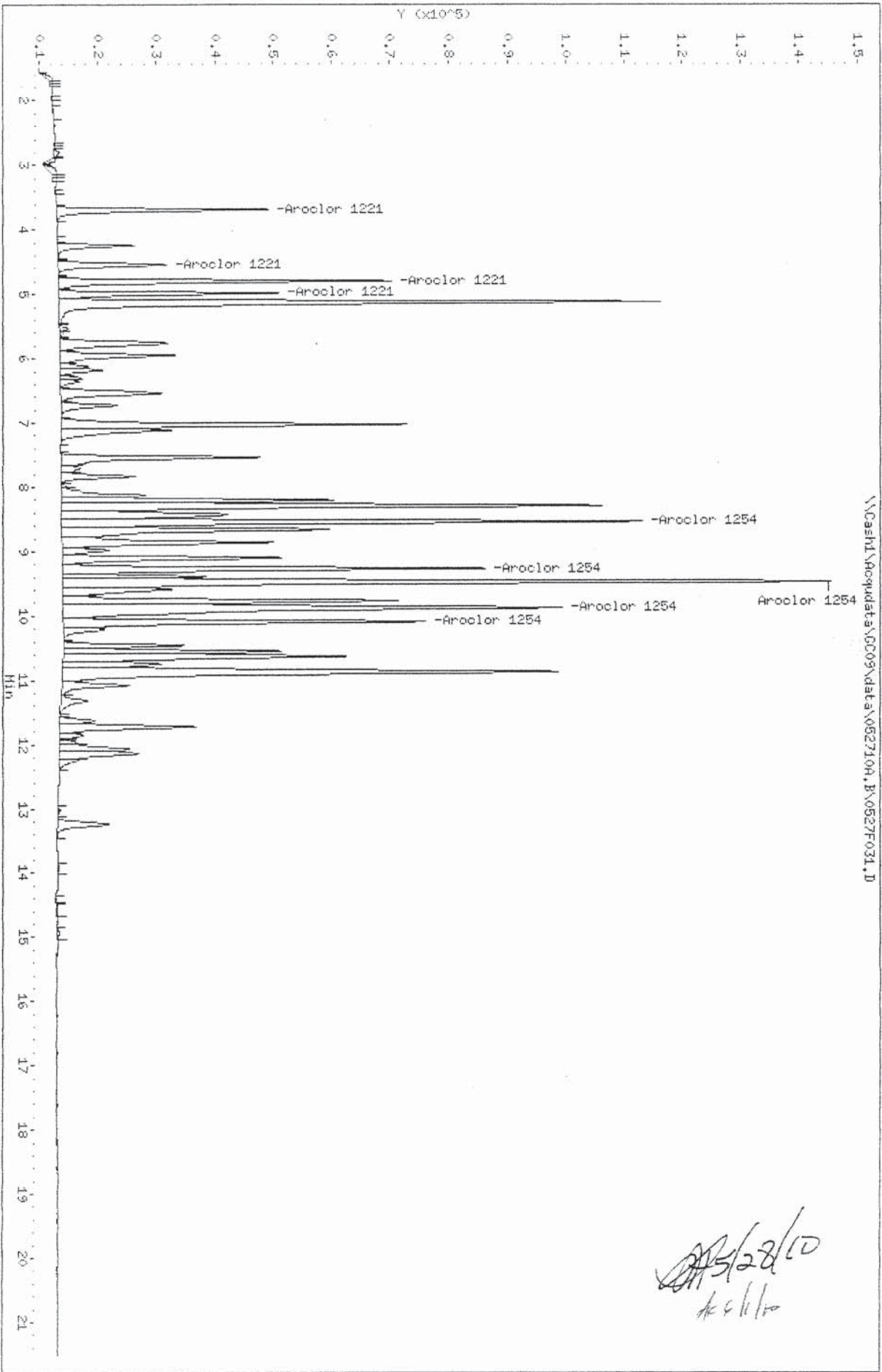
QC Flag Legend

M - Compound response manually integrated.

[Handwritten signature]
 5/28/10
 A. Harris

Data File: \\Cash1\ncoddata\GC09\data\062710A.B\0627F031.D
Date: 28-MAY-2010 03:48
Client ID:
Sample Info: 1221/1254 @ 2000/1000ppb | PCB5-526
Column Phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Handwritten signature and date: 5/28/10
K. K. H. H.

Data File: \\Casha1\Acq\data\GC09\data\0527104_r.j\0527R031.D

Date: 28-May-2010 03:48

Client ID:

Sample Info: 1221/1254 @ 2000/1000ppb | PCB5-52G

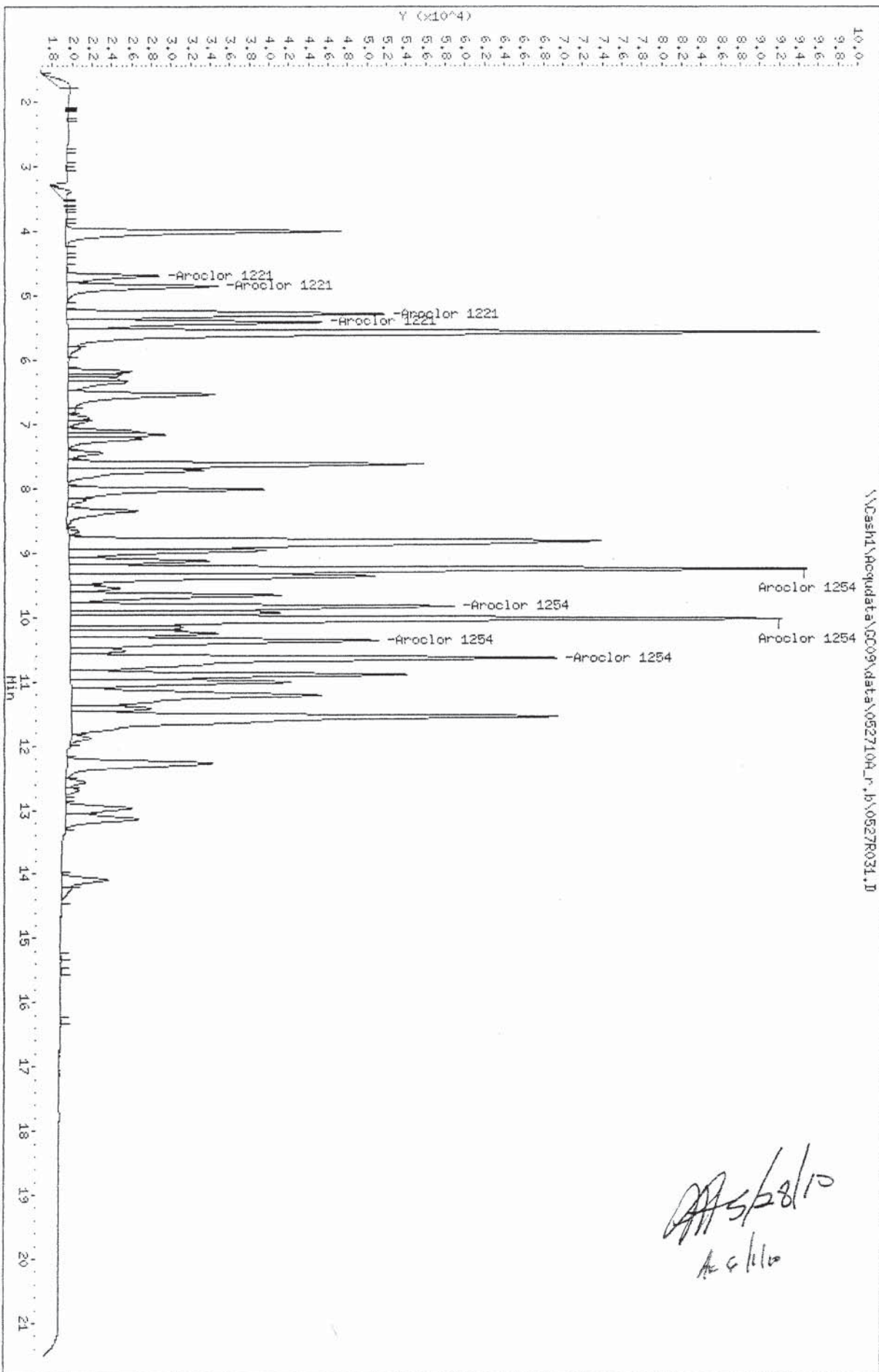
Column phase: DB-MLB

Instrument: GC09.1

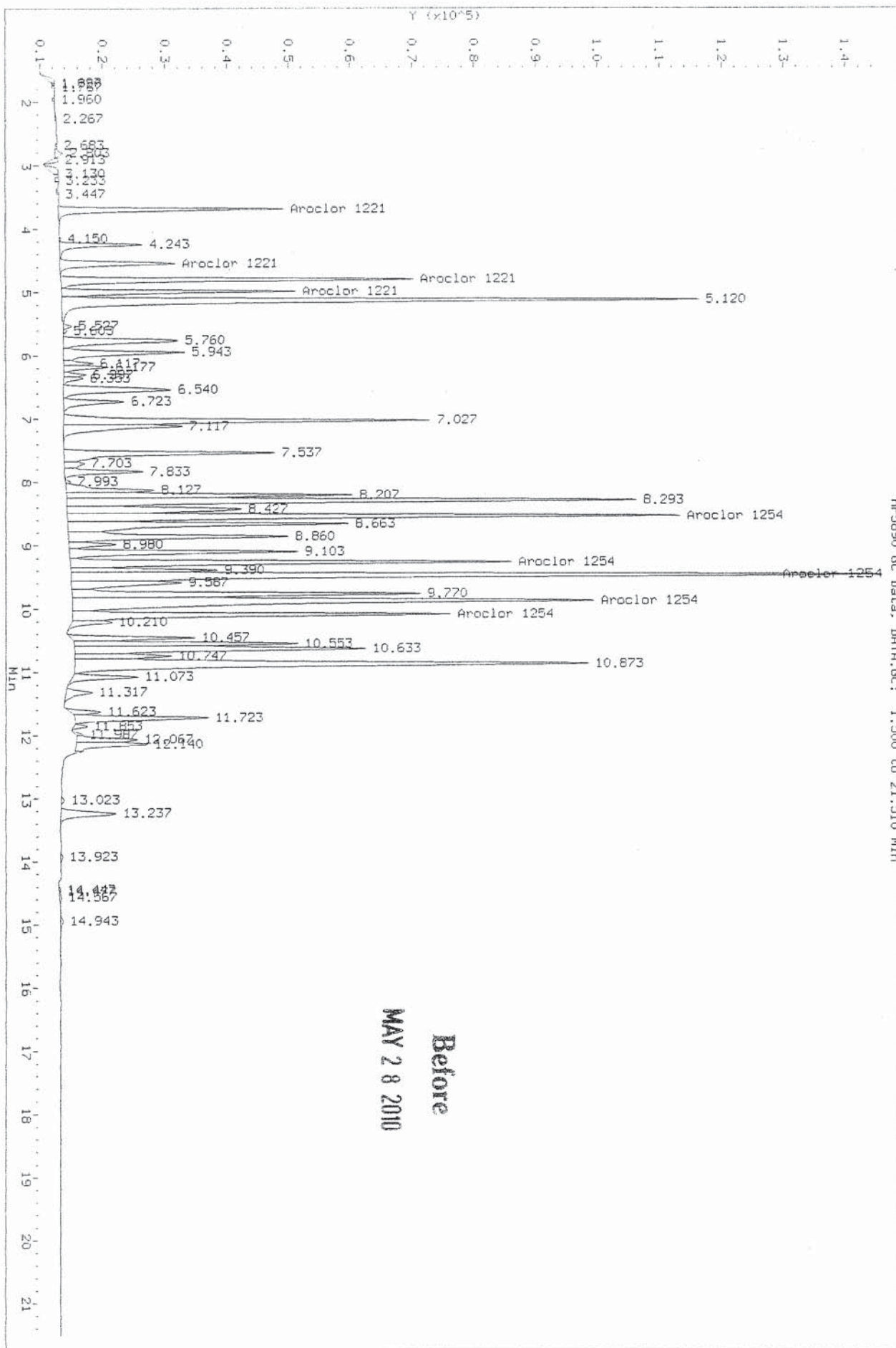
Operator: LHarris

Column diameter: 0.53

\\Casha1\Acq\data\GC09\data\0527104_r.j\0527R031.D



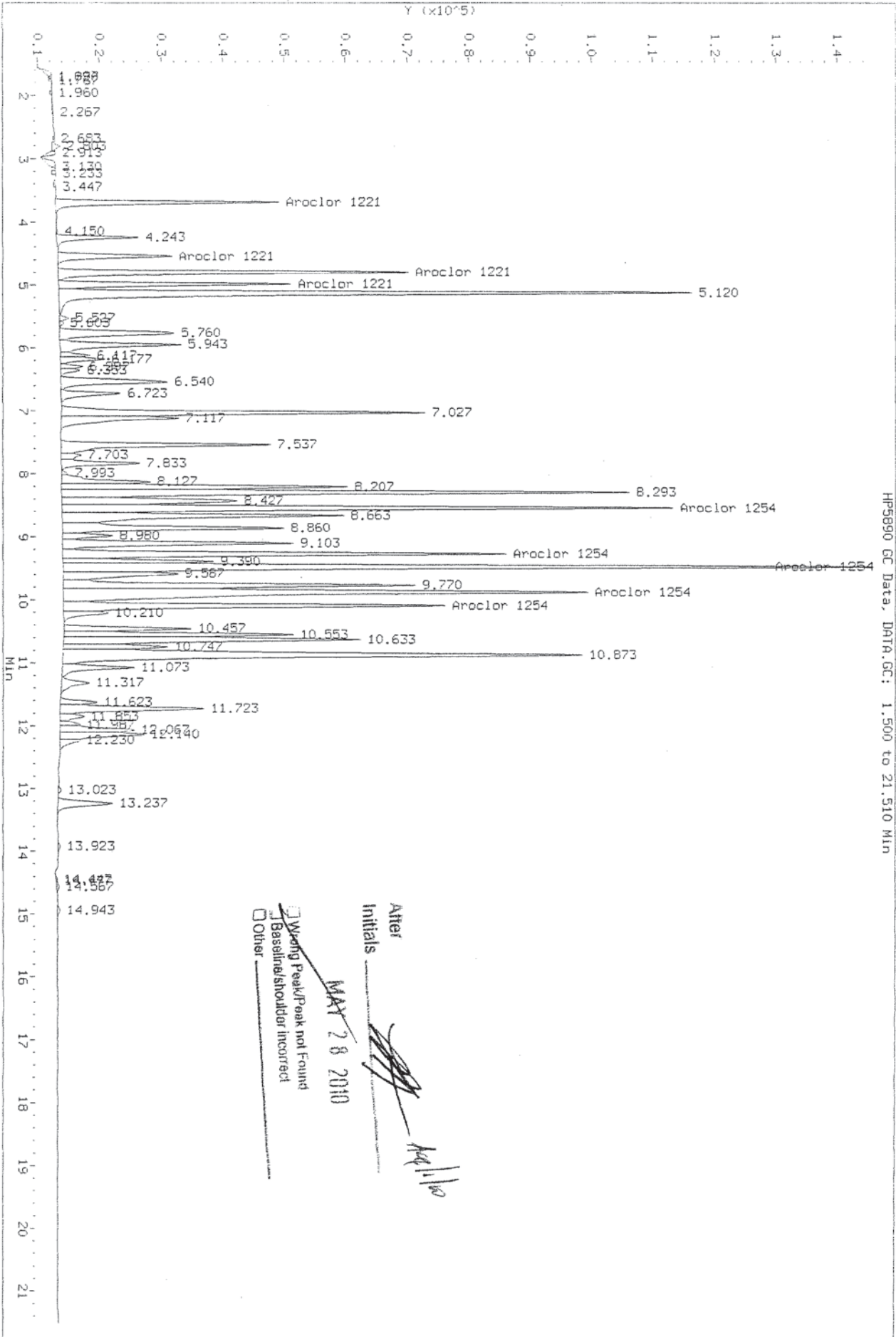
Data File: \\Cash1\nc\qudata\GC09\data\052710a.B\0527F031.D
 Injection Date: 28-May-2010 03:48
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min

Before
 MAY 28 2010

Data File: \\Cash1\Acq\data\GC09\data\052710A.B\0527F031.D
 Injection Date: 28-May-2010 03:48
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min

After _____
 Initials _____
 MAY 28 2010
 Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F032.D
 Report Date: 28-May-2010 17:29

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F032.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R032.D
 Inj Date : 28-MAY-2010 04:14
 Sample Info: 1221/1254 @ 4000/2000ppb | PCB5-52H
 Misc Info :
 Cal Date : 28-MAY-2010 13:16
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1221+1254.sub
 Sub List #2 : 1221+1254.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	3.683	4.687	211846	74862	2990	2950	80.00- 120.00	100.00
	4.540	4.850	135747	130962	3380	3710	51.26- 76.90	64.08
	4.793	5.283	345748	295862	3290	3690	133.68- 200.52	163.21
	4.983	5.410	225277	208386	3380	3720	85.57- 128.36	106.34
	Average of Peak Amounts =					3260	3520	
Aroclor 1254	8.540	9.247	701844	668933	1740	1740	80.00- 120.00	100.00
	9.270	9.830	523384	357253	1860	2030	61.91- 92.86	74.57
	9.470	10.023	1017858	707364	1770	1980	116.61- 174.92	145.03
	9.880	10.360	866454	334601	1860	2080	101.15- 151.73	123.45
	10.093	10.630	462993	604402	1870	1920	53.30- 79.94	65.97
Average of Peak Amounts =					1820	1950		

Handwritten signature: AS/28/10
Handwritten signature: A. 6/11/10

Data File: \\Cashd\Acq\data\GC09\data\052710A.B\0527F032.D

Date: 28-May-2010 04:14

Client ID:

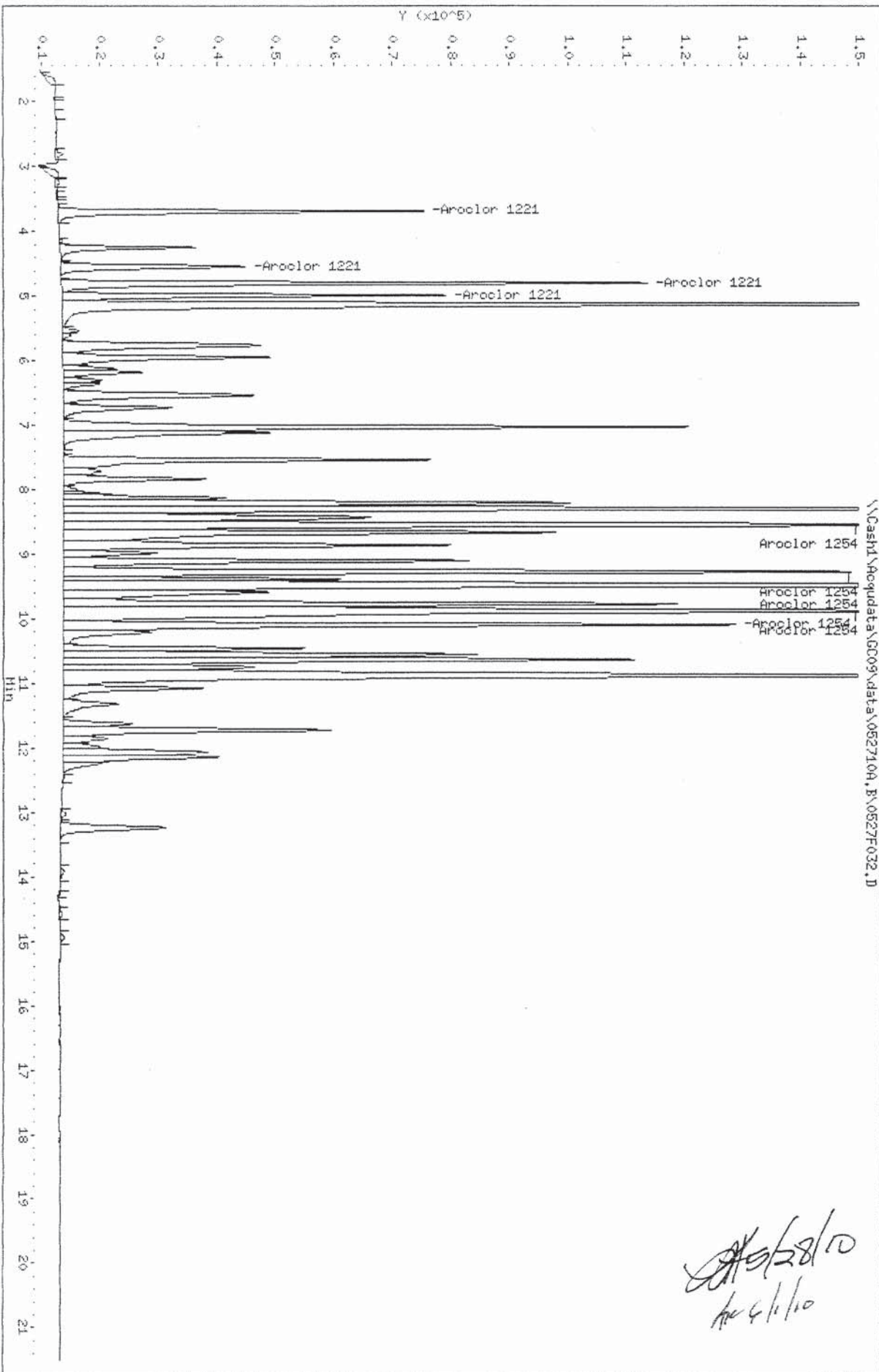
Sample Info: 1221/1254 @ 4000/2000ppb | PCB5-52H

Column phase: DB-35MS

Instrument: GC09.1

Operator: LHarris

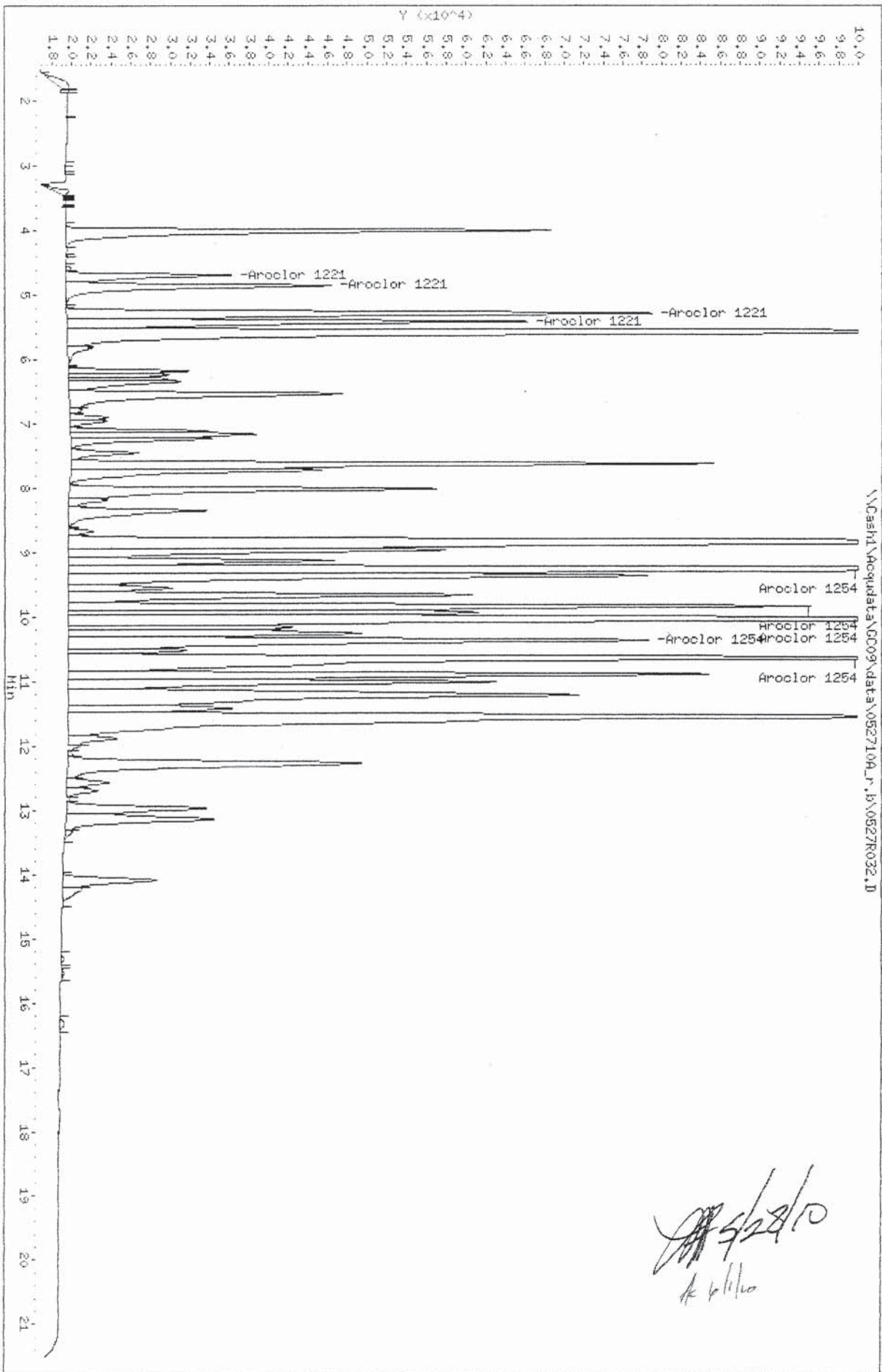
Column diameter: 0.53



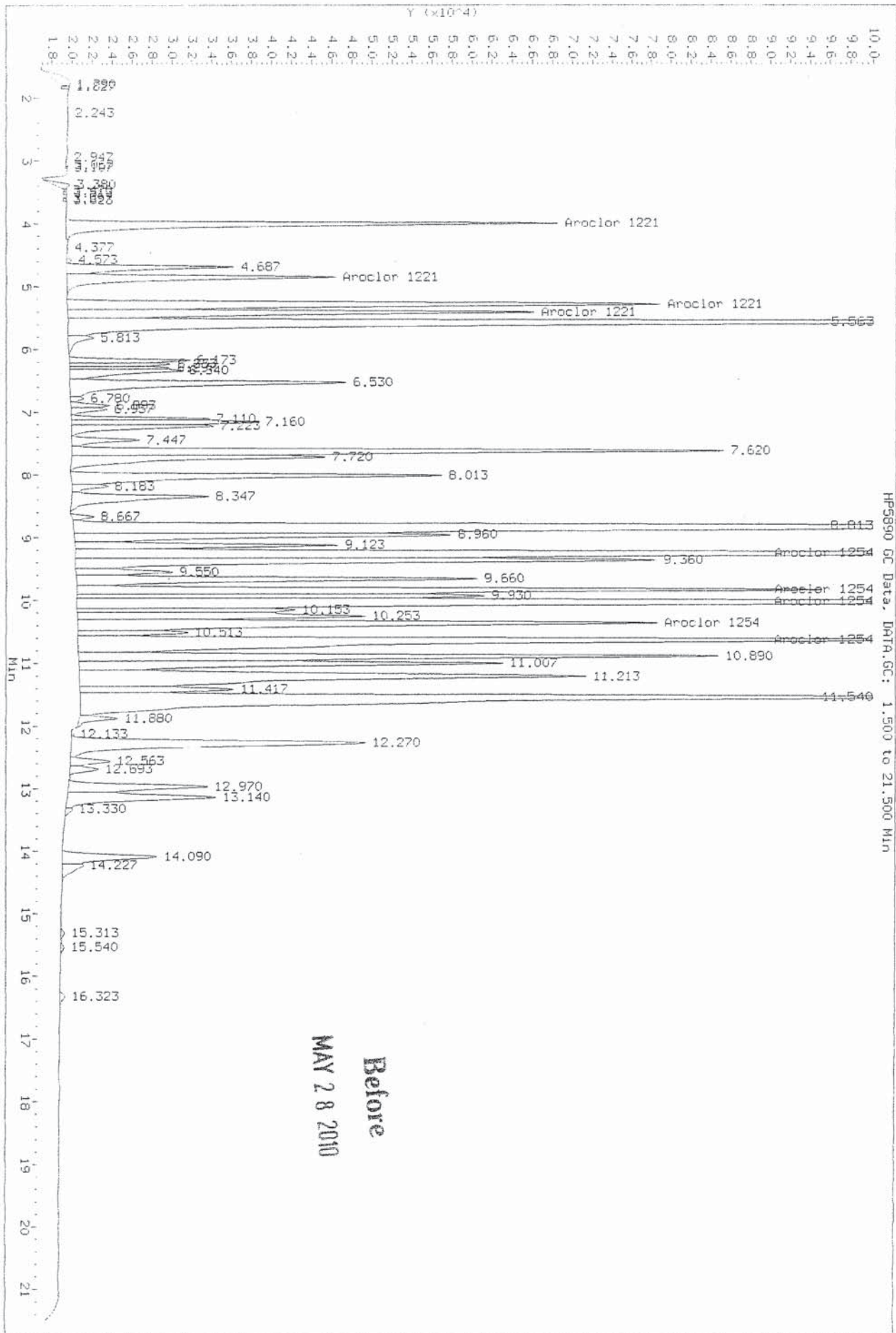
Handwritten signature and date:
28/5/10
4/1/10

Data File: \\Cashd\Acqudata\GC09\data\0527104_L1.B\0527R032.D
 Date: 28-MAY-2010 04:14
 Client ID:
 Sample Info: 1221/1254 @ 4000/2000ppb | PCB5-52H
 Column phase: DB-MLB

Operator: LHarris
 Instrument: GC09.1
 Column diameter: 0.53

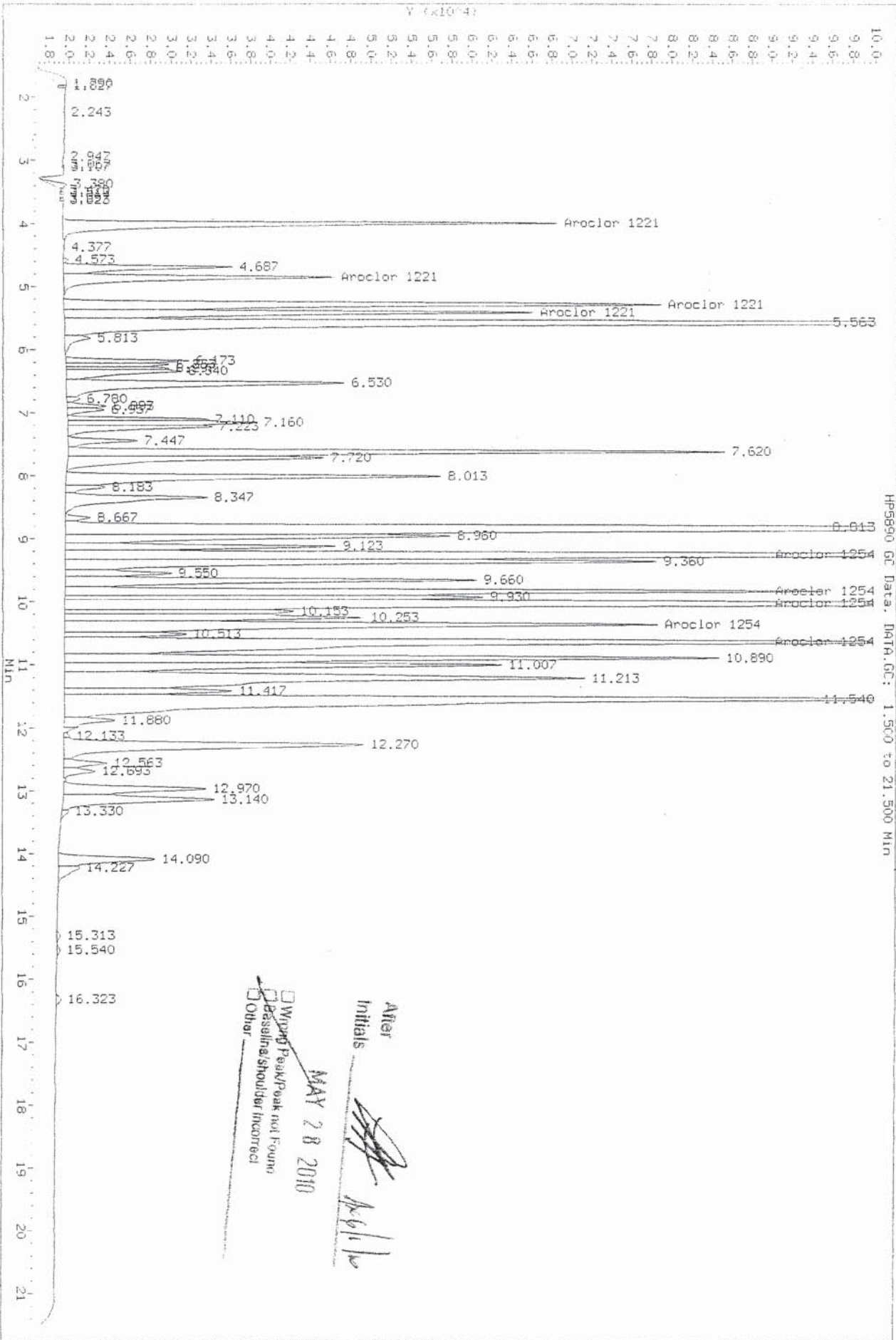


Data File: \\Casht1\pegudata\GC09\data\0527104_r_b\0527R032.D
 Injection Date: 28-May-2010 04:14
 Instrument: GC09.1
 Client Sample ID:



Before
 MAY 28 2010

Data File: \\Cash1\Acq\data\GC09\data\0527109_r.b\0527R032.D
 Injection Date: 28-MAY-2010 04:14
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F033.D
 Report Date: 28-May-2010 17:29

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F033.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R033.D
 Inj Date : 28-MAY-2010 04:40
 Sample Info: 1221/1254 @ 10000/5000ppb | PCB5-52I
 Misc Info :
 Cal Date : 28-MAY-2010 13:16
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1221+1254.sub
 Sub List #2 : 1221+1254.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	3.687	4.687	432503	159348	6100	7860	80.00- 120.00	100.00 (A)
	4.540	4.850	277157	271312	6910	7690	51.26- 76.90	64.08 (A)
	4.797	5.283	722722	651571	6880	8140	133.68- 200.52	167.10 (A)
	4.983	5.410	462618	445929	6940	7960	85.57- 128.36	106.96 (A)
	Average of Peak Amounts =				6710	7910		
Aroclor 1254	8.540	9.247	1508202	1471676	3730	3830	80.00- 120.00	100.00
	9.270	9.830	1167135	819224	4160	4650	61.91- 92.86	77.39
	9.470	10.020	2198476	1601678	3830	4480	116.61- 174.92	145.77
	9.877	10.360	1907007	742950	4100	4620	101.15- 151.73	126.44
	10.090	10.630	1004763	1364075	4060	4340	53.30- 79.94	66.62
Average of Peak Amounts =				3980	4380			

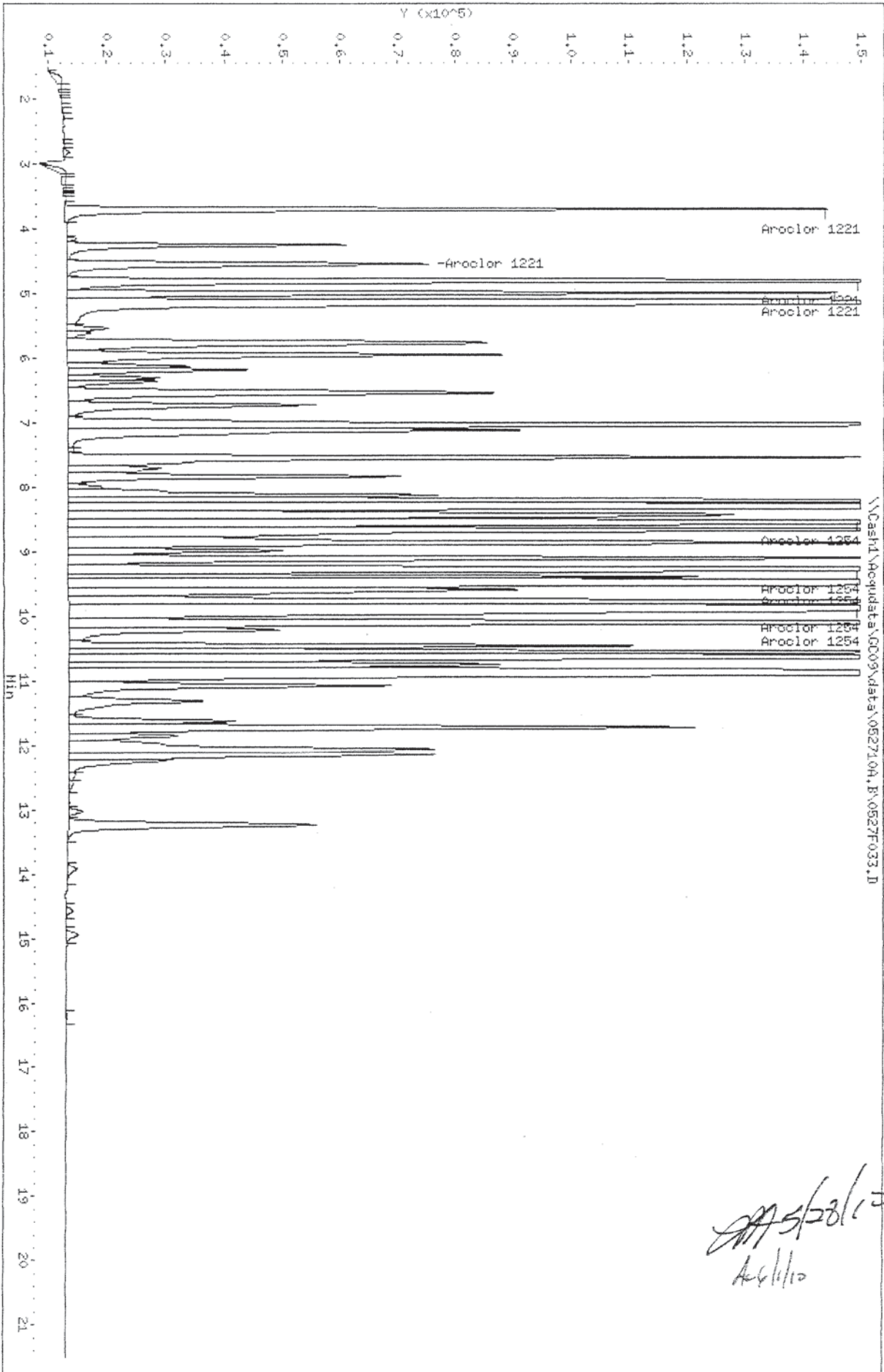
QC Flag Legend

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

Handwritten signature and date:
 5/28/10
 de 6/1/10

Data File: \\Cash1\Acquidata\GC09\data\0527108.F\0527F033.D
Date: 28-MAY-2010 04:40
Client ID:
Sample Info: 1221/1254 @ 10000/5000ppb | PCB5-521
Column phase: IR-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

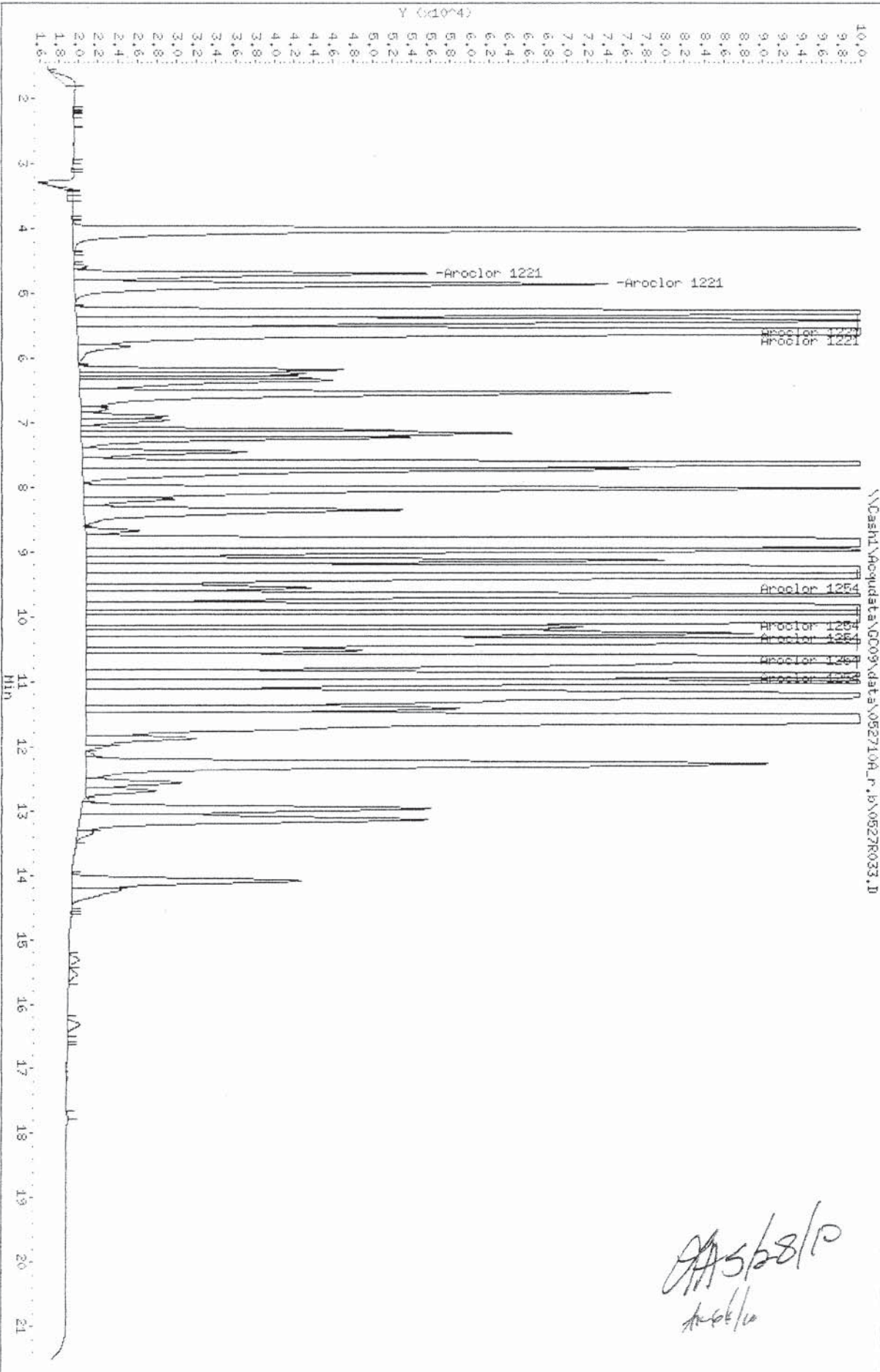


Handwritten signature and date:
5/28/10
Acl/110

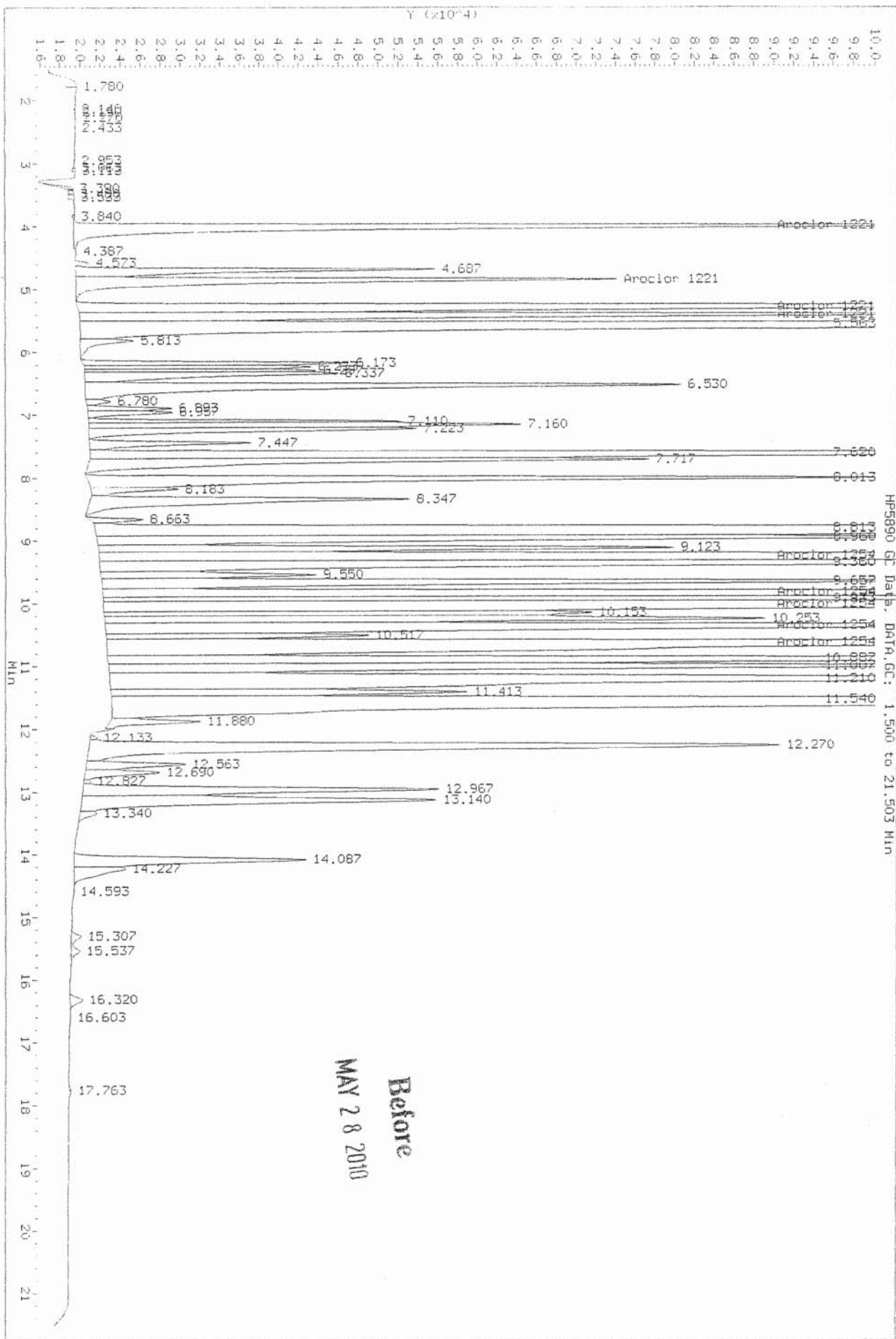
Data File: \\CASH1\hpc\data\GC09\data\052710A_r_b\0527R033.D
Date: 28-Mar-2010 04:40
Client ID:
Sample Info: 1221/1254 @ 10000/50000ppb | PCB8-521

Column phase: DB-3LB

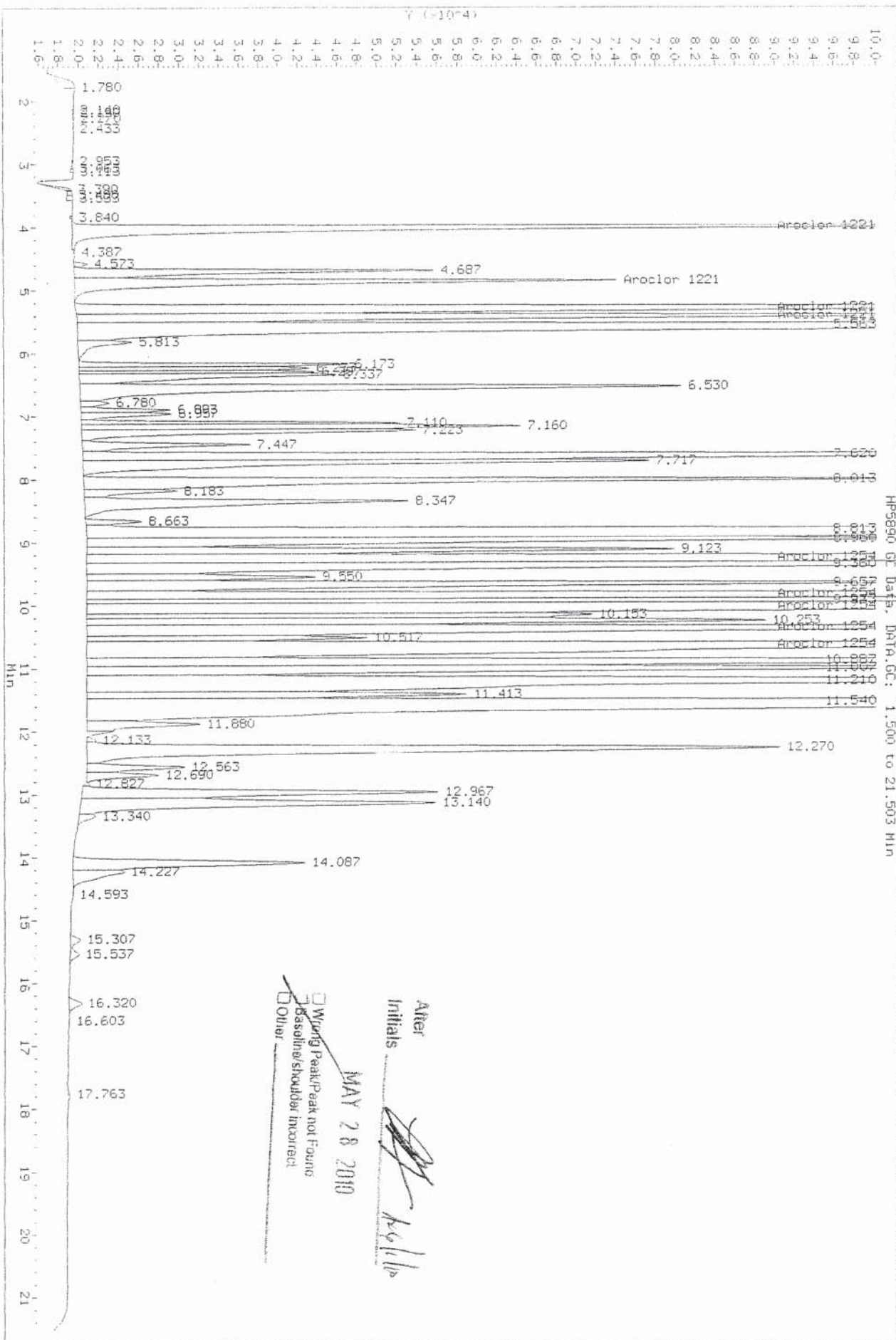
Instrument: GC09.i
Operator: LHarris
Column diameter: 0.53



Data File: \\CASH1\Acquidata\GC09\data\052710A_r.b\0527R033.D
 Injection Date: 28-May-2010 04:40
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acq\data\GC09\data\052710A_r.b\0527R033.D
 Injection Date: 28-May-2010 04:40
 Instrument: GC09.1
 Client Sample ID:



Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F034.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R034.D
 Inj Date : 28-MAY-2010 05:06
 Sample Info: 1232/1262 @ 25ppb | PCB5-52J
 Misc Info :
 Cal Date : 28-MAY-2010 12:04
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1232+1262.sub
 Sub List #2 : 1232+1262.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	5.120	5.567	6575	4758	29.8	26.8	80.00- 120.00	100.00 (M)
	5.743	6.230	5934	1365	29.3	21.5	73.60- 110.40	90.24 (M)
	6.117	7.223	1118	3538	24.8	27.1	17.45- 26.18	17.01 (M)
	6.540	7.443	9911	1399	27.8	19.1	131.13- 196.70	150.72 (M)
	Average of Peak Amounts =				27.9	23.6		
Aroclor 1262	10.560	10.893	7377	5679	30.2	23.9	80.00- 120.00	100.00 (M)
	10.943	11.550	13889	5042	28.1	24.1	166.27- 249.41	188.28 (M)
	11.623	11.743	10597	9064	27.2	26.7	129.39- 194.09	143.66 (M)
	12.147	12.313	18661	5818	25.2	22.6	249.74- 374.61	252.96 (M)
	13.230	13.150	13311	13769	24.4	24.9	188.68- 283.02	180.45 (M)
	Average of Peak Amounts =				27.0	24.4		

QC Flag Legend

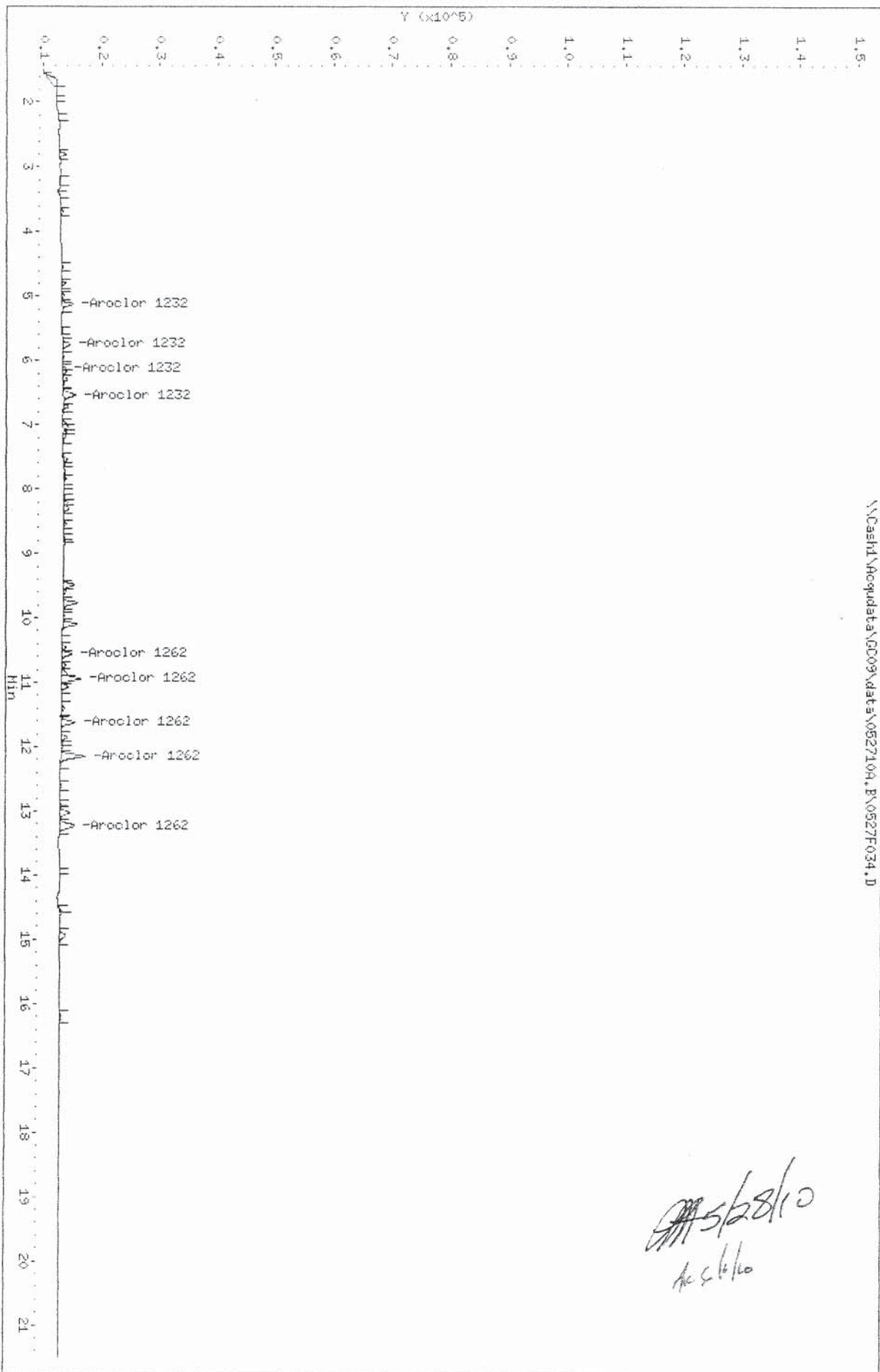
M - Compound response manually integrated.

Handwritten signature and date:
 5/28/10
 HG

Data File: \\Cashd\Acqudata\GC09\data\052710A.E\0527F034.D
Date: 28-MAY-2010 05:06
Client ID:
Sample Info: 1232/1262 @ 26ppb | PCBs-623
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

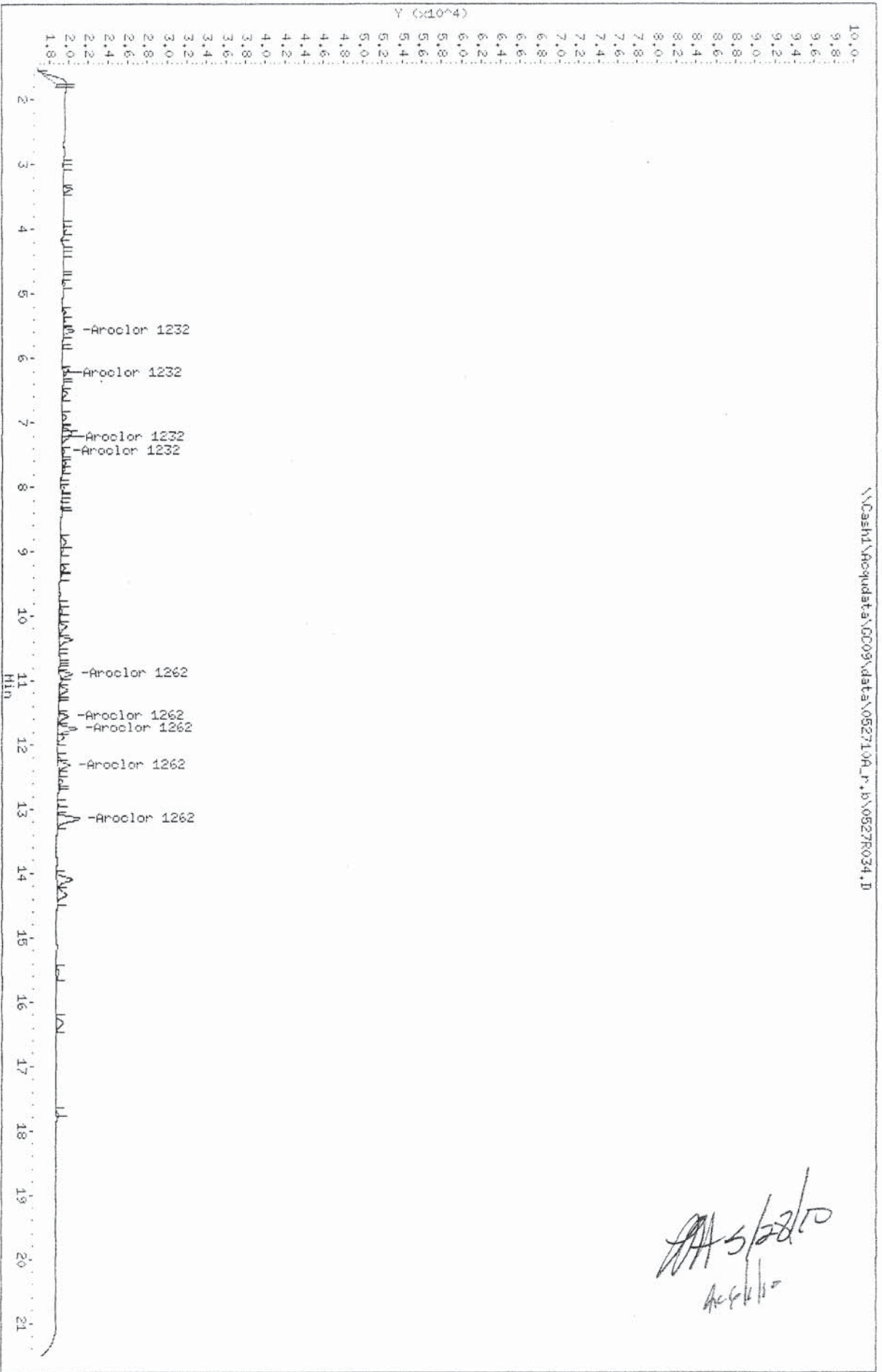
\\Cashd\Acqudata\GC09\data\052710A.E\0527F034.D



Handwritten signature and date:
5/28/10
Ac S. 6/6/10

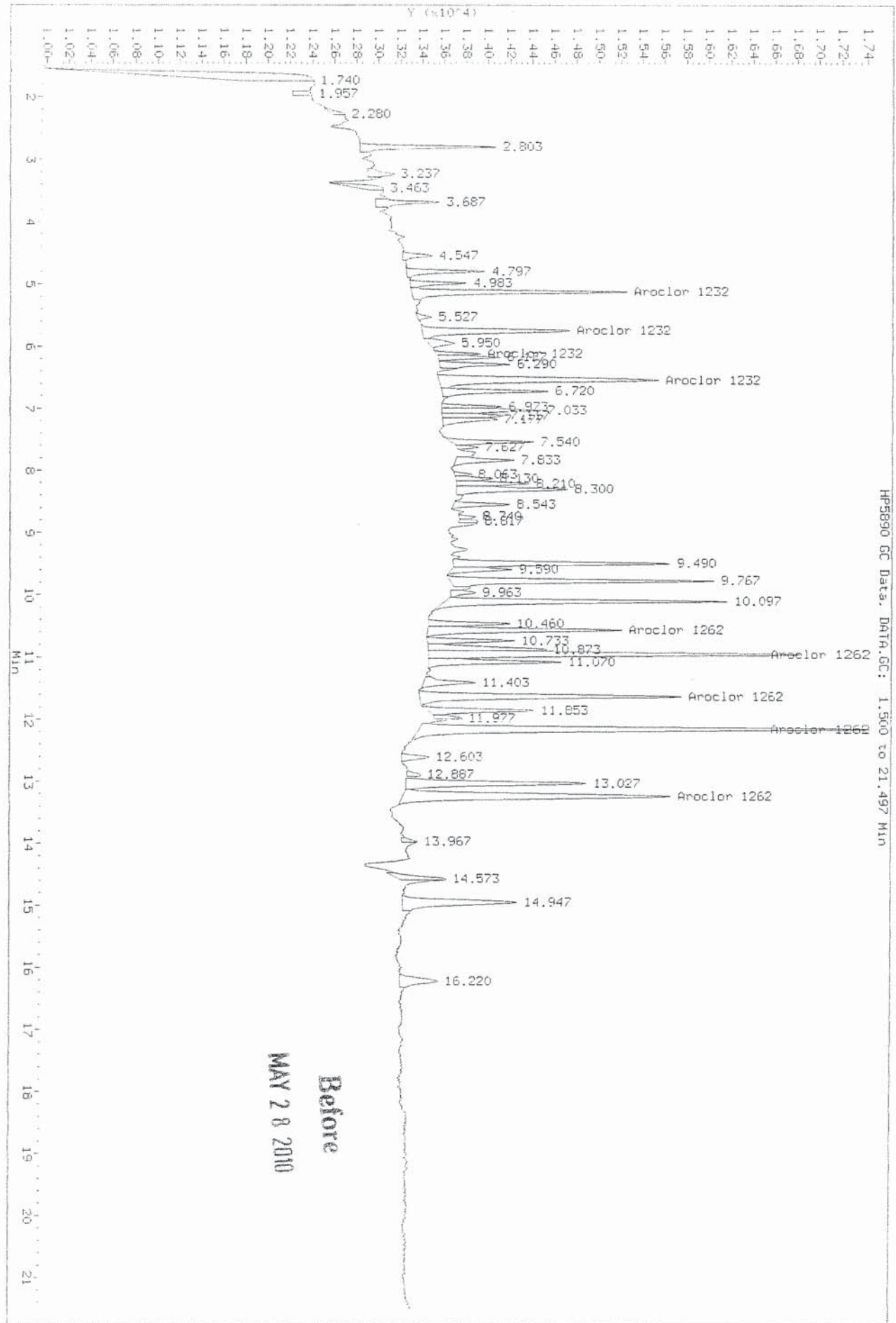
Data File: \\CASH1\Acqudata\GC09\data\0527109_r.b\0527R034.D
 Date: 28-Nov-2010 05:06
 Client ID:
 Sample Info: 1232/1262 @ 20ppb | PCBs-523
 Column phase: DB-FLB

Instrument: GC09.1
 Operator: Lharris
 Column diameter: 0.53



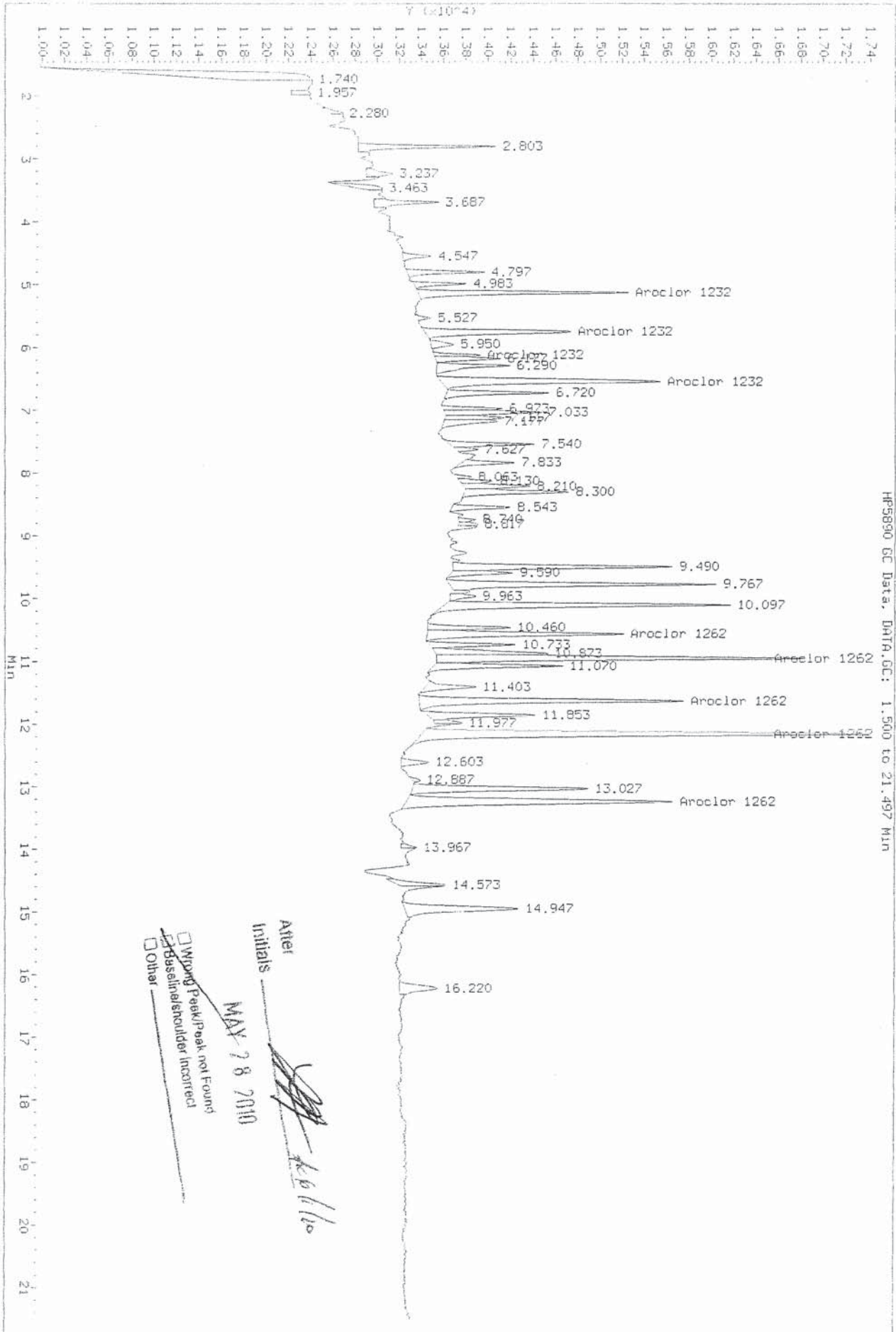
Handwritten signature and date: 5/22/10

Data File: \\Cashl\pcdata\GC09\data\0527106.B\0527F034.D
Injection Date: 28-May-2010 05:06
Instrument: GC09.1
Client Sample ID:

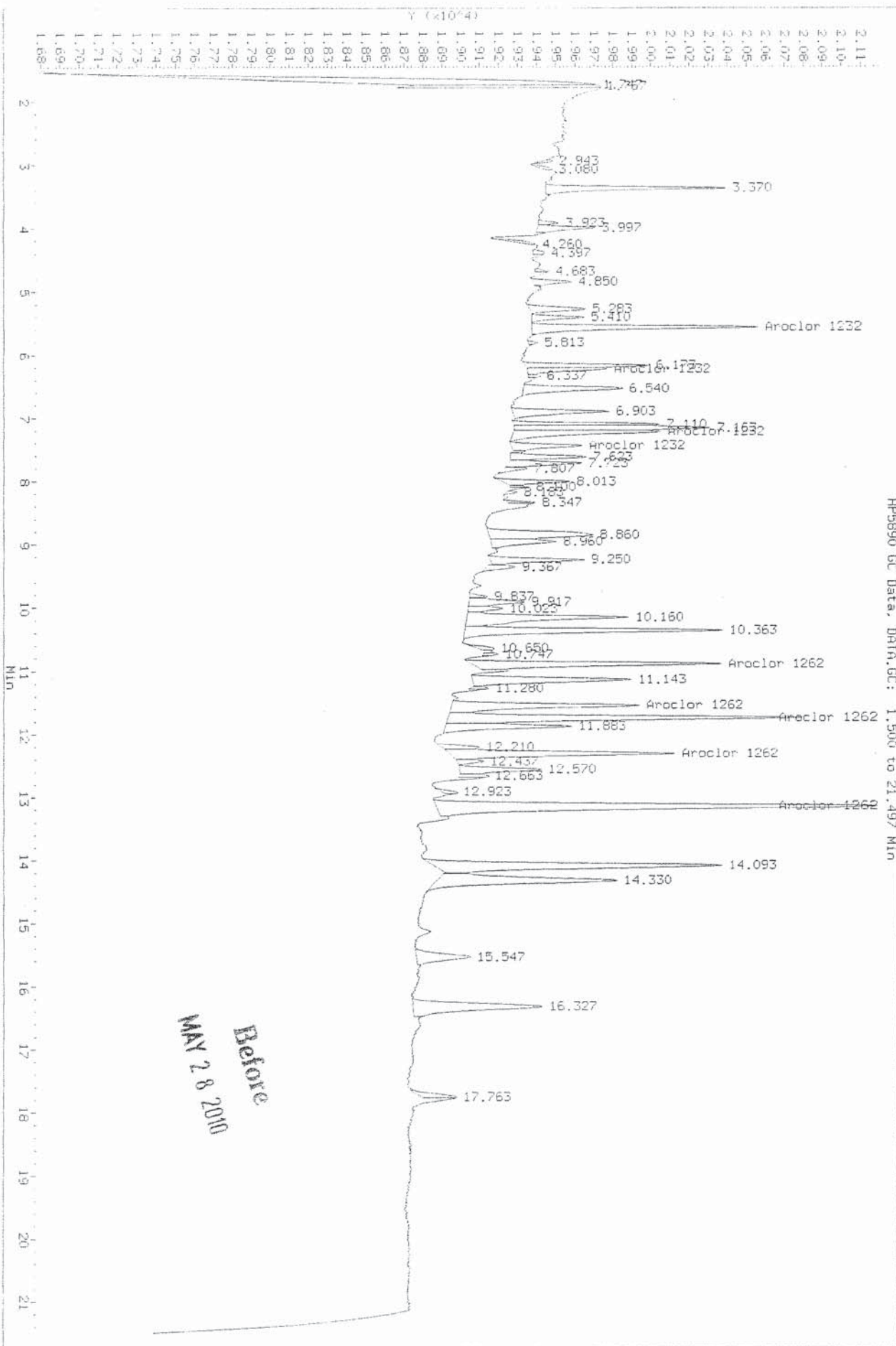


Before
MAY 28 2010

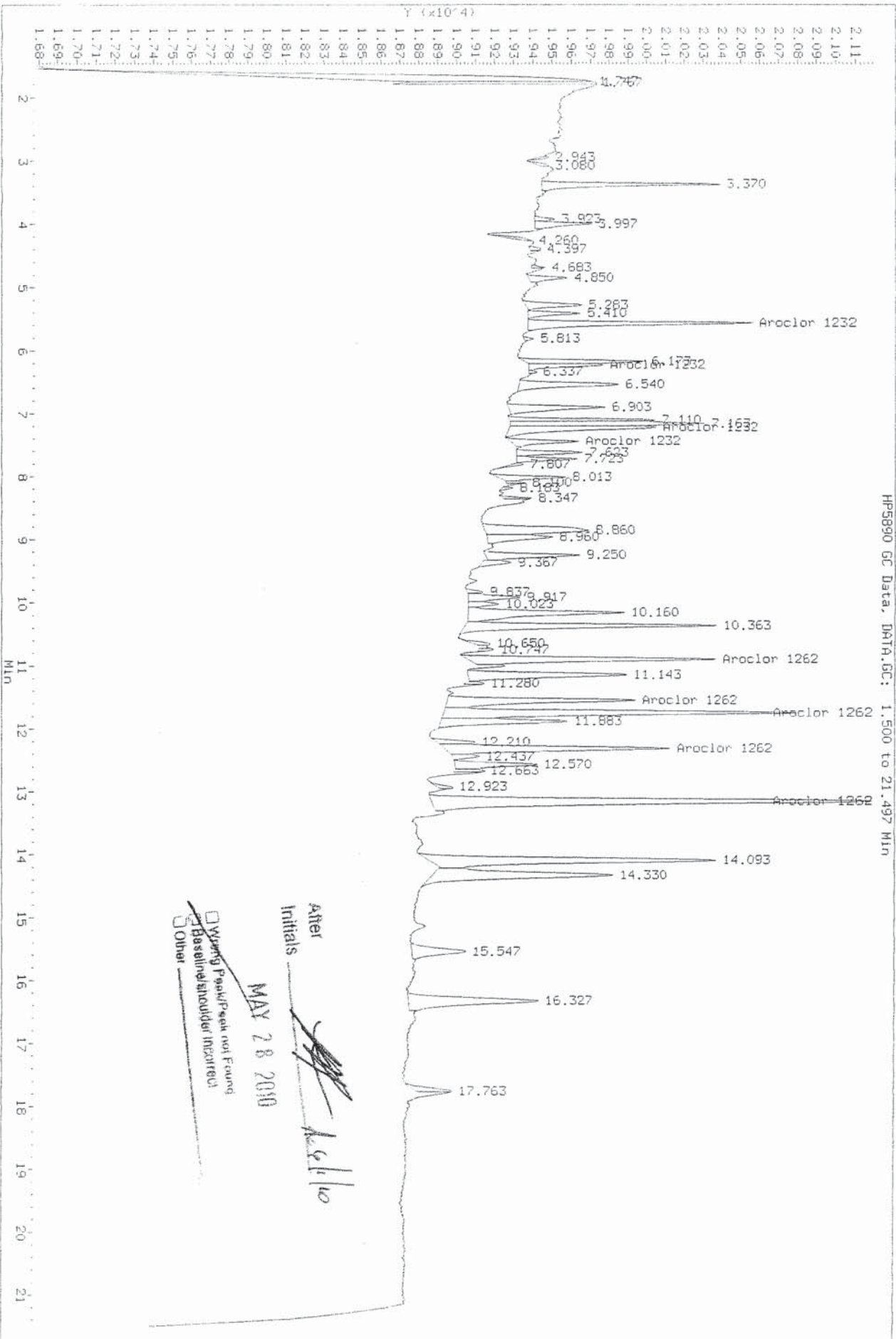
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 Injection Date: 28-May-2010 05:06
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Casht\Acq\data\GC09\data\052710a.r.b\0527R034.D
 Injection Date: 28-MAY-2010 05:06
 Instrument: GC09.1
 Client Sample ID:



Data File: \N\Cash1\Acq\data\GC09\data\052710A_r.b\0527R034.D
 Injection Date: 28-May-2010 05:06
 Instrument: GC09.1
 Client Sample ID:



After _____
 Initials _____
 MAY 28 2010
 Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____

Columbia Analytical Services

Sample #1 : \\Cash1\Acqdata\GC09\data\052710A.B\0527F035.D
 Sample #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\0527R035.D
 Inj Date : 28-MAY-2010 05:32
 Sample Info: 1232/1262 @ 50ppb | PCB5-52K
 Misc Info :
 Cal Date : 28-MAY-2010 12:04
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1232+1262.sub
 Sub List #2 : 1232+1262.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	5.120	5.567	13403	9859	61.4	56.0	80.00- 120.00	100.00 (M)
	5.743	6.230	11859	3282	59.0	51.3	73.60- 110.40	90.13 (M)
	6.117	7.223	2234	7128	49.5	55.0	17.45- 26.18	16.67 (M)
	6.540	7.447	21022	3421	58.9	48.5	131.13- 196.70	156.85 (M)
	Average of Peak Amounts =				57.2	52.7		
Aroclor 1262	10.560	10.893	13924	13007	57.0	55.1	80.00- 120.00	100.00 (M)
	10.943	11.550	29206	10645	59.0	50.8	166.27- 249.41	209.75 (M)
	11.623	11.743	21741	18744	56.0	55.1	129.39- 194.09	156.14 (M)
	12.147	12.313	40850	13653	55.6	53.1	249.74- 374.61	293.38 (M)
	13.230	13.150	28630	28252	52.6	51.2	188.68- 283.02	205.62 (M)
Average of Peak Amounts =				56.0	53.1			

QC Flag Legend

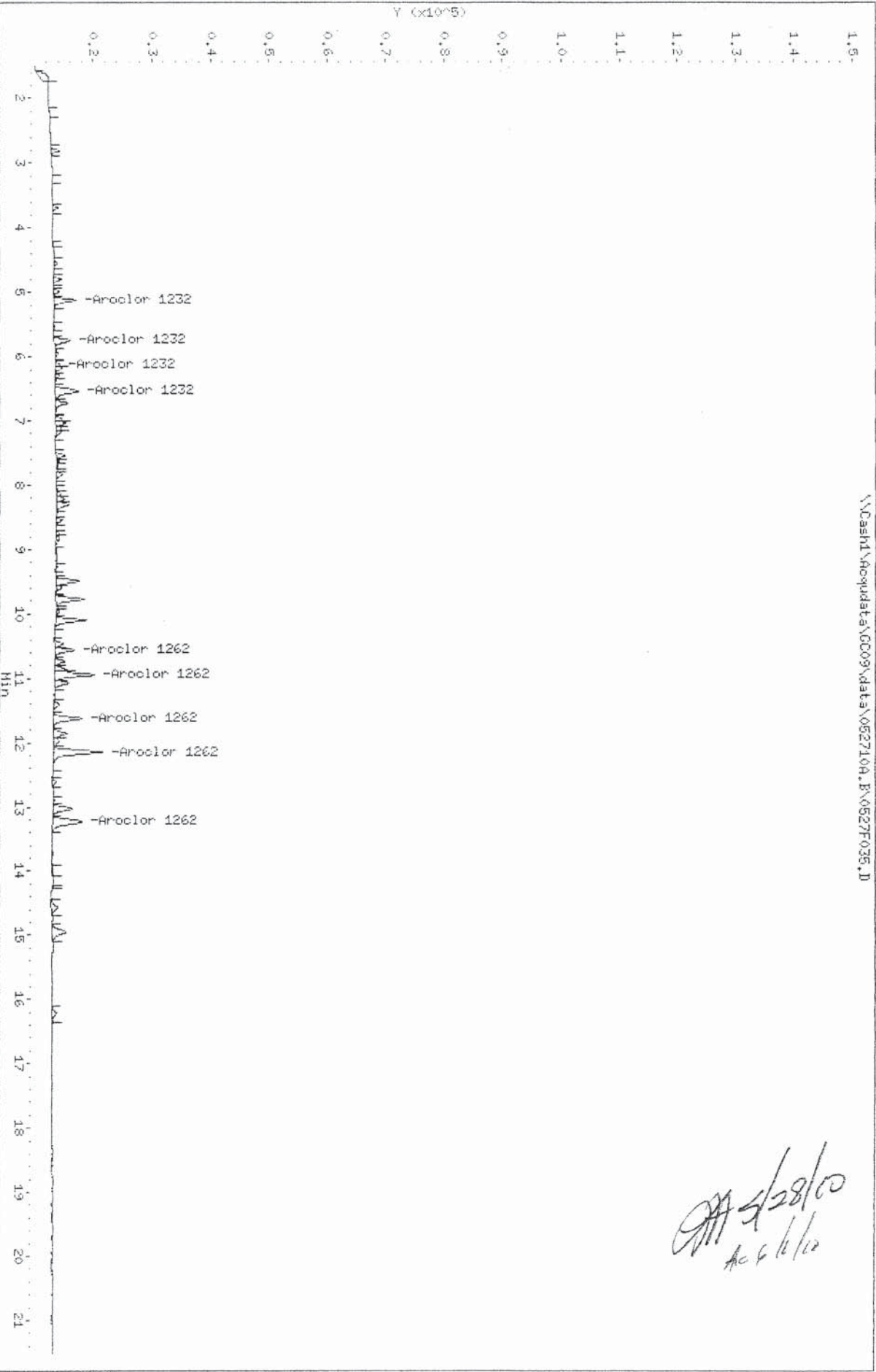
M - Compound response manually integrated.

Handwritten signature and date:
 5/28/10
 Ac 6/1/10

Data File: \\CASH1\Acq\data\GC09\data\052710A.E\0527F035.D
Date: 28-MAY-2010 05:32
Client ID:
Sample Info: 1232/1262 @ 50ppb | PCBs-52K
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

\\CASH1\Acq\data\GC09\data\052710A.E\0527F035.D

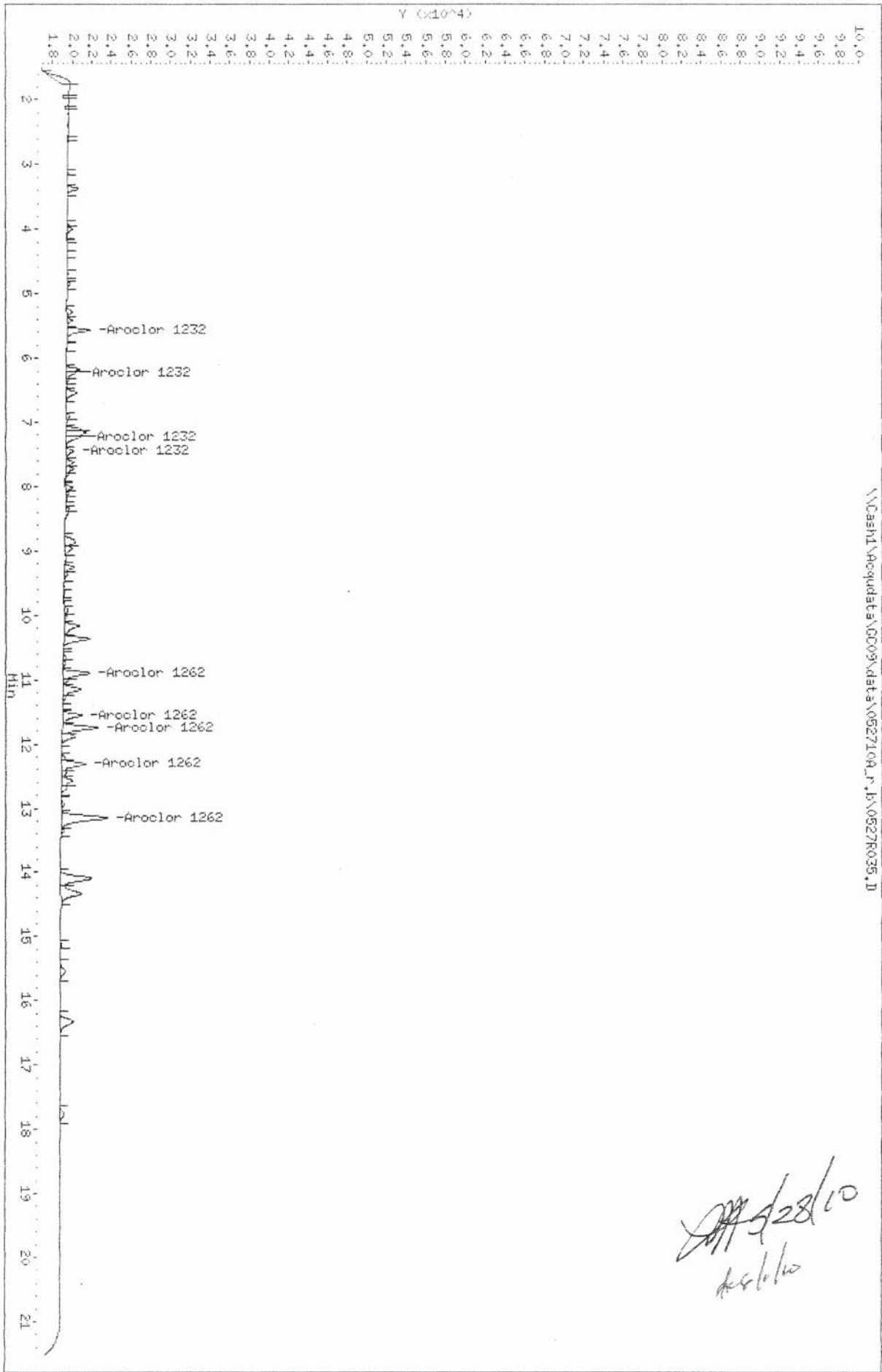


Handwritten signature and date:
5/28/10
AC 6/16/10

Data File: \\CASH1\Acqudata\GC09\data\0527104_1.P\0527R035.D
 Date: 28-MAY-2010 06:32
 Client ID:
 Sample Info: 1232/1262 @ 50ppb | PCBs-52K
 Column Phase: DB-5LB

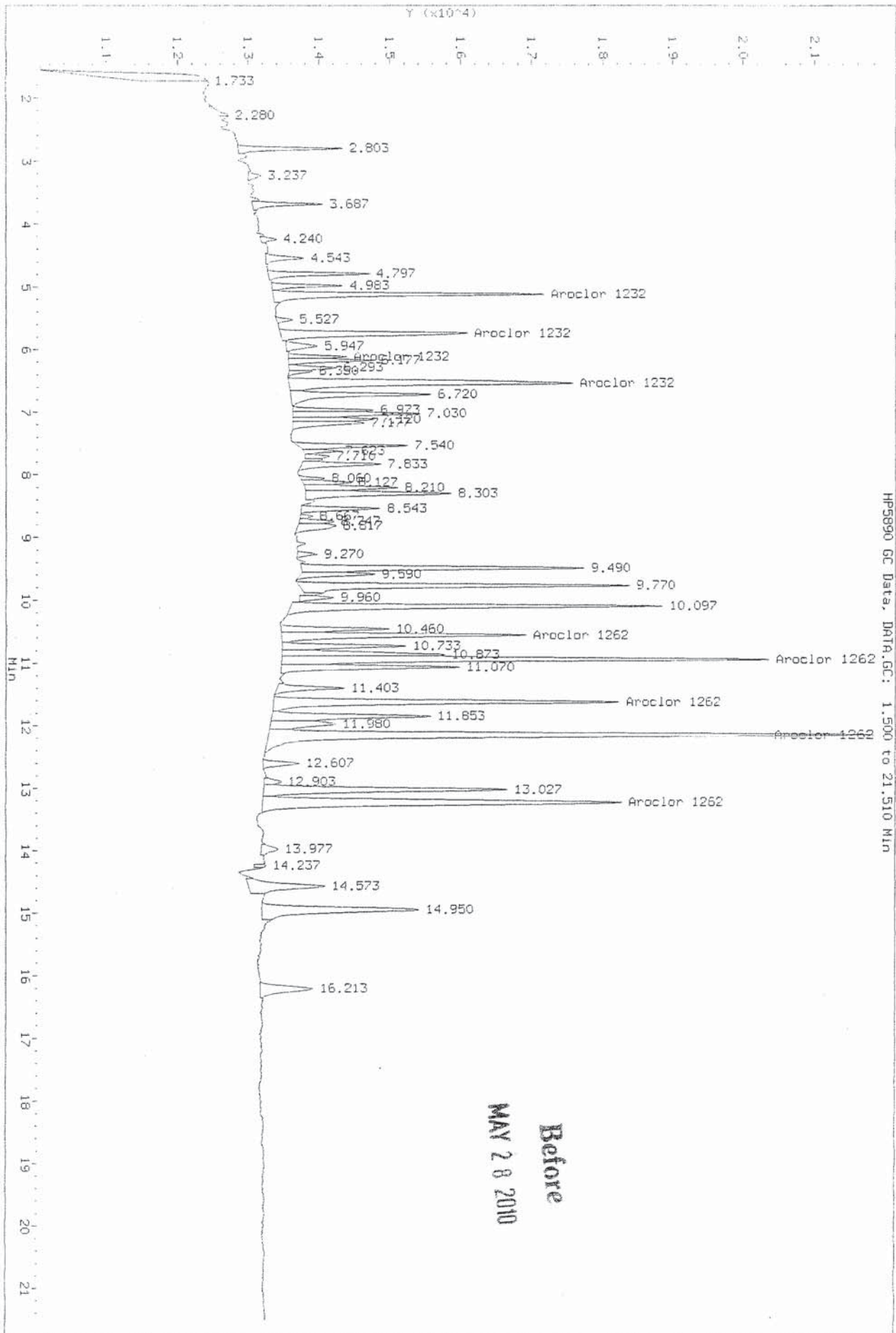
Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53

\\CASH1\Acqudata\GC09\data\0527104_1.P\0527R035.D

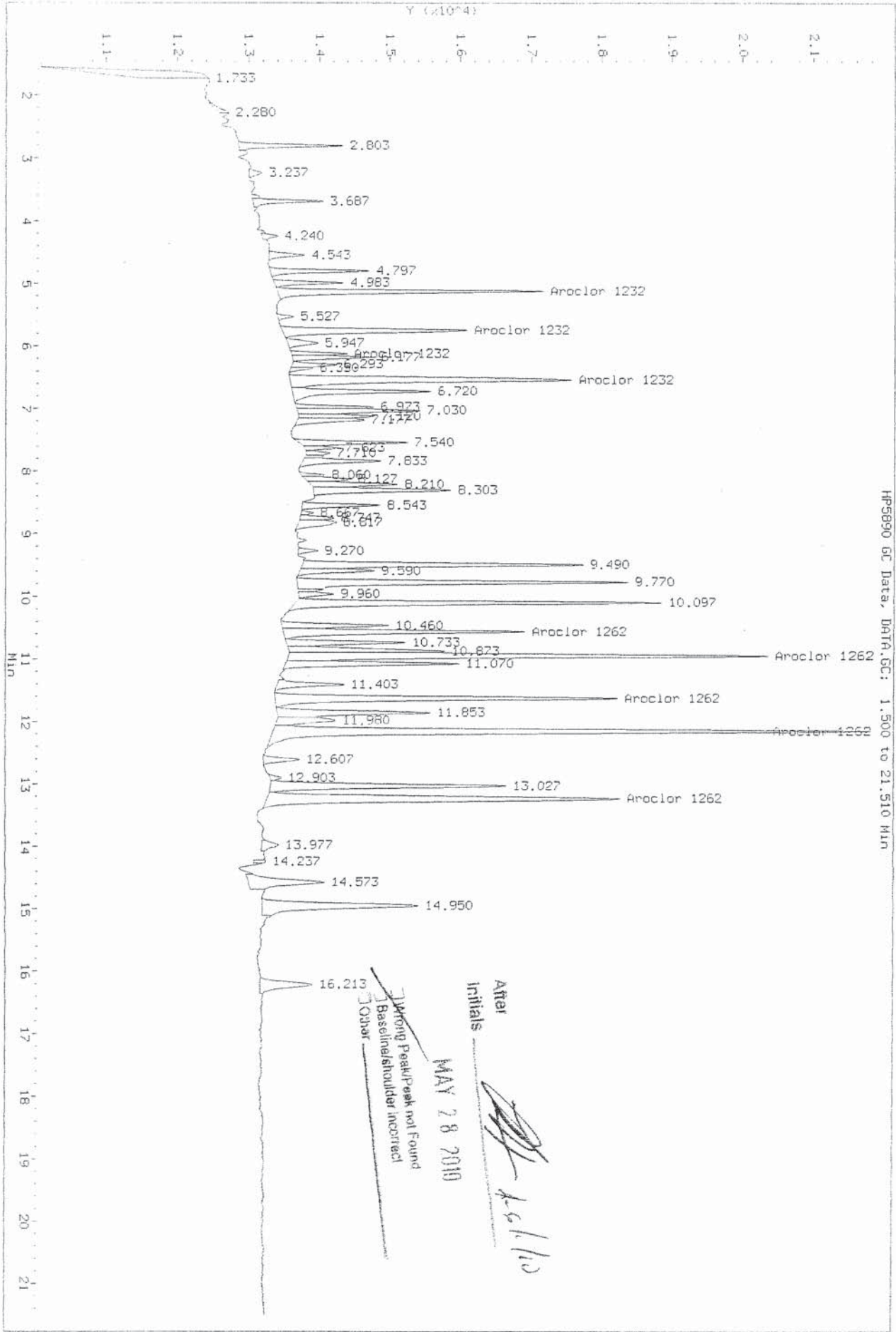


Handwritten signature and date:
 5/28/10
 [Signature]

Data File: \\Cash1\hgc\data\GC09\data\0527104.B\0527F035.D
Injection Date: 28-May-2010 05:32
Instrument: GC09.1
Client Sample ID:



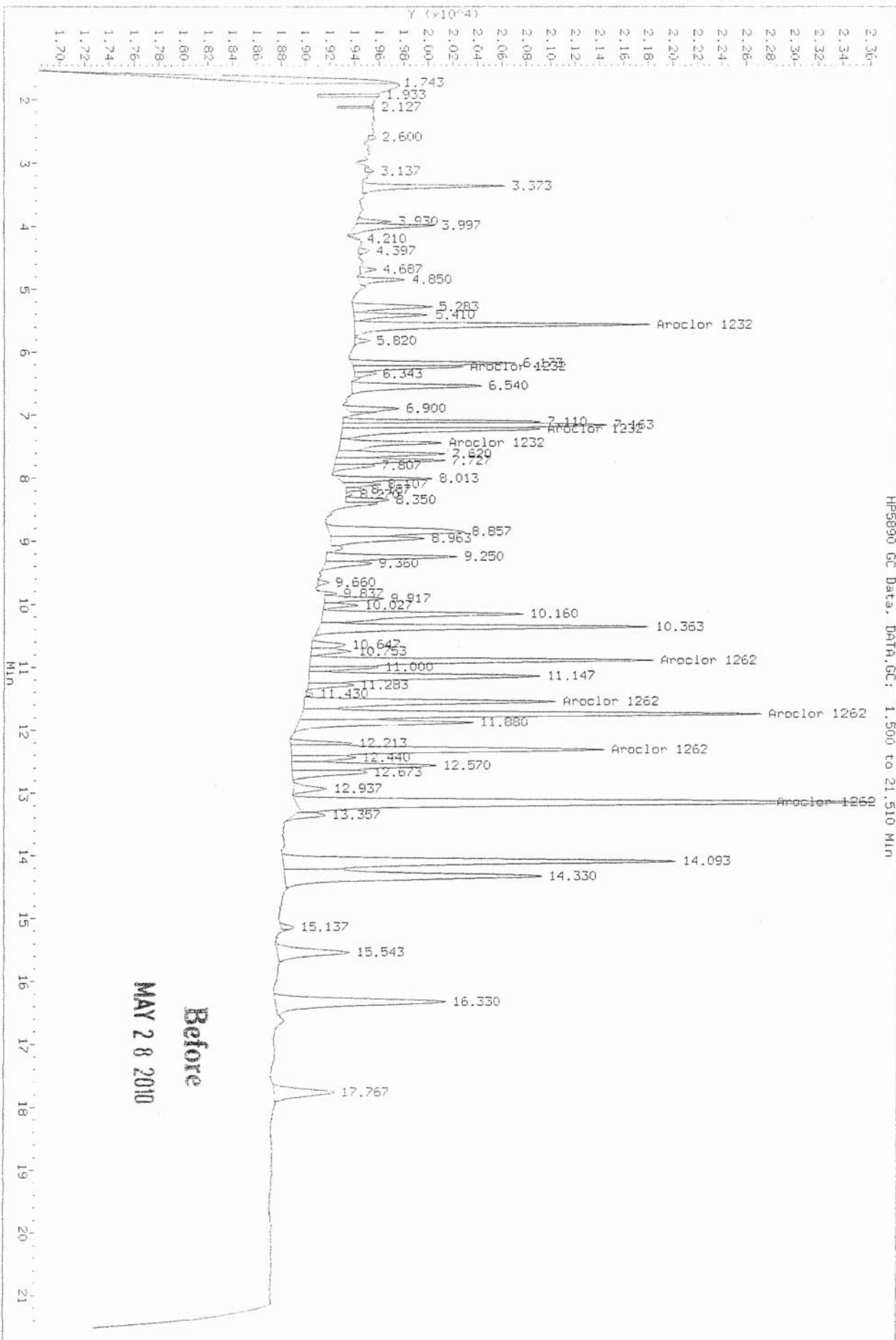
Data File: \\Cash1\Acq\data\GC09\data\052710A.B\0527F035.D
 Injection Date: 28-MAY-2010 05:32
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, Data GC: 1.500 to 21.510 Min

After Initials _____
 MAY 28 2010
 Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____

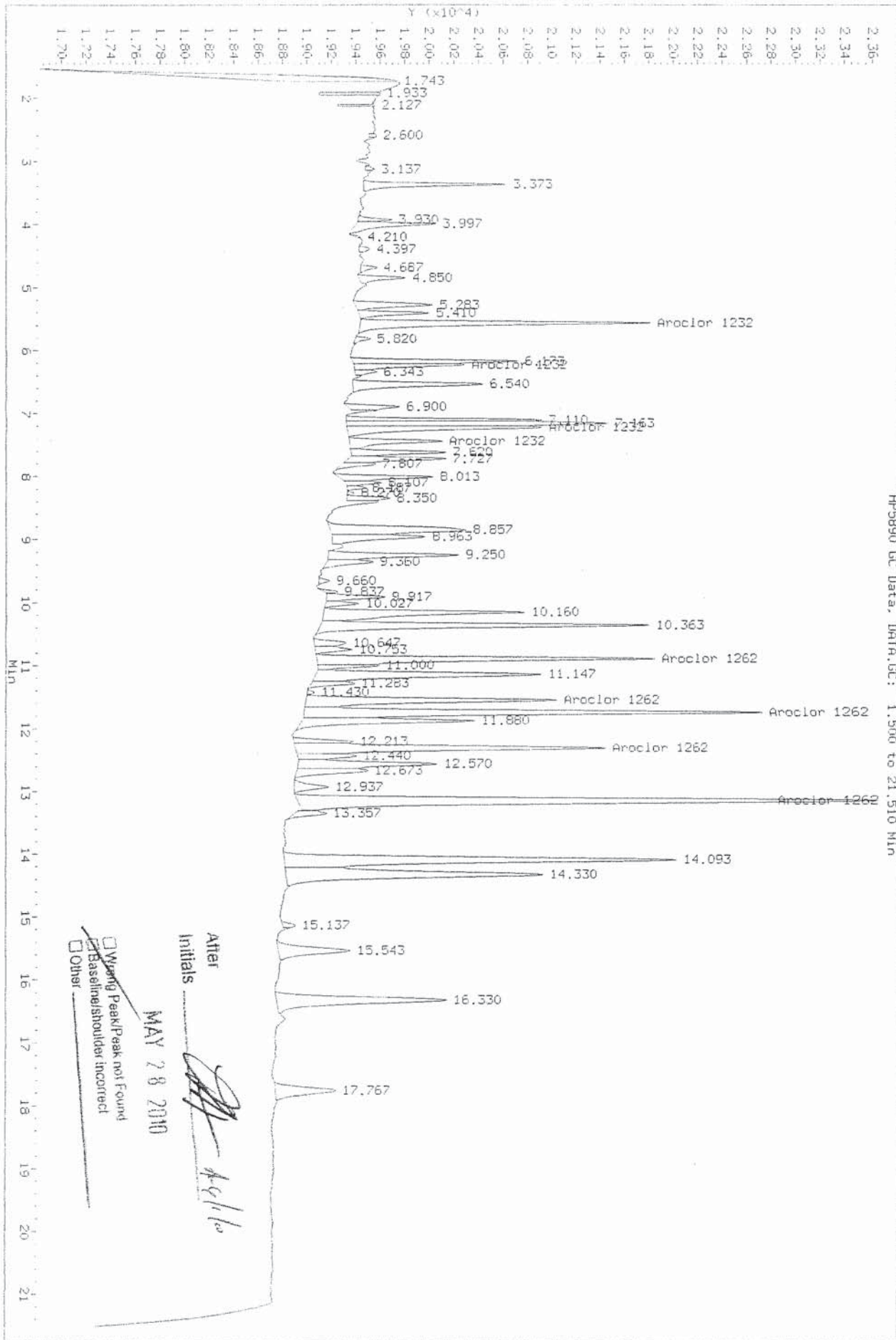
Data File: \\Casht\Acq\data\GC09\data\0527109_r.b\0527R035.D
 Injection Date: 28-May-2010 05:32
 Instrument: GC09.1
 Client Sample ID:



Before
 MAY 28 2010

HP5890 GC Data, DATA.GC: 1.500 to 21.510 MIN

HP5890 GC Data, DATA.GC: 1.500 to 21.510 MIN



Alter _____
 Initials _____
 MAY 28 2010
 Missing Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F036.D
Report Date: 28-May-2010 17:29

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F036.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R036.D
Inj Date : 28-MAY-2010 05:58
Sample Info: 1232/1262 @ 500ppb | PCB5-52L
Misc Info :
Cal Date : 28-MAY-2010 12:04
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : 1232+1262.sub
Sub List #2 : 1232+1262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	5.120	5.563	121497	100404	556	570	80.00- 120.00	100.00(M)
	5.743	6.230	111779	38905	555	600	73.60- 110.40	92.00(M)
	6.117	7.223	26508	76783	585	573	17.45- 26.18	21.82(M)
	6.537	7.447	199150	47057	558	622	131.13- 196.70	163.91(M)
	Average of Peak Amounts =				564	591		
Aroclor 1262	10.557	10.893	130098	136022	533	575	80.00- 120.00	100.00(M)
	10.943	11.547	270396	117979	546	562	166.27- 249.41	207.84(M)
	11.620	11.743	210418	188626	542	554	129.39- 194.09	161.74(M)
	12.143	12.313	406130	145378	552	564	249.74- 374.61	312.17(M)
	13.227	13.147	306832	305388	564	553	188.68- 283.02	235.85(M)
	Average of Peak Amounts =				547	562		

QC Flag Legend

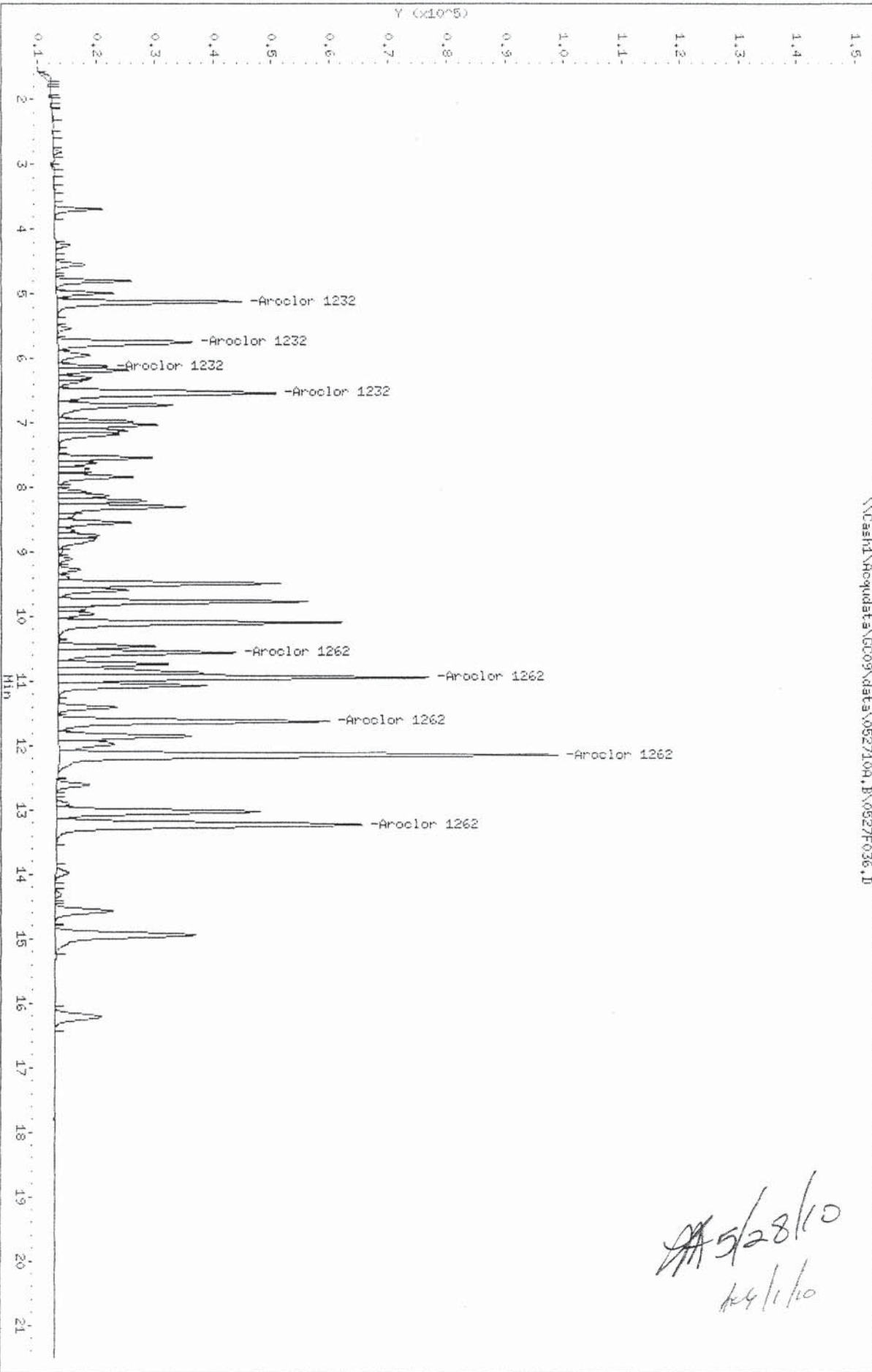
M - Compound response manually integrated.

Handwritten signature and date:
5/28/10
Acq/1/10

Data File: \\Casha1\hpc\qdata\GC09\data\0527109.F\0527F036.D
Date: 28-May-2010 05:58
Client ID:
Sample Info: 1232/1262 @ 500ppb | PCB5-52L
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

\\Casha1\hpc\qdata\GC09\data\0527109.F\0527F036.D

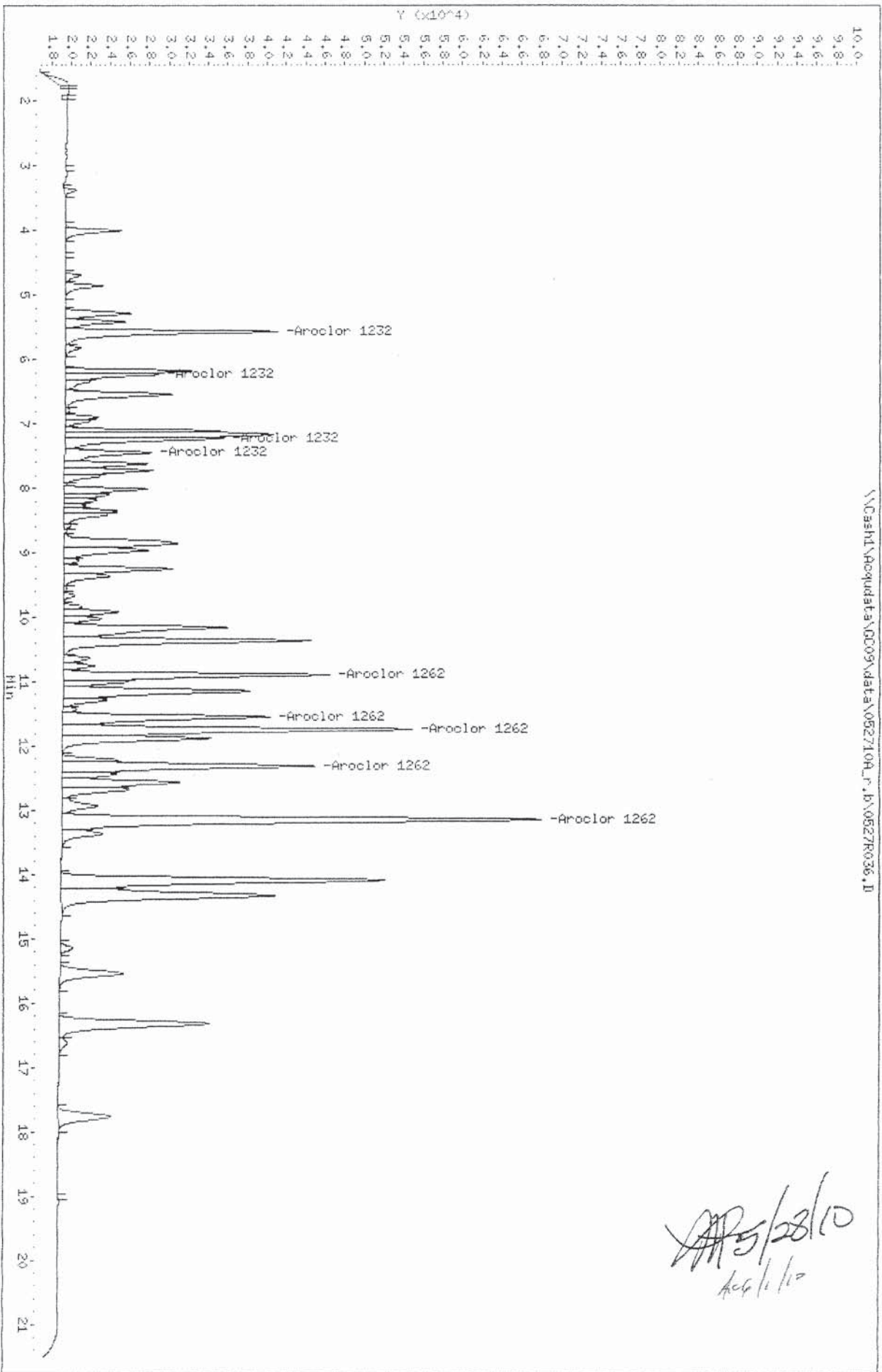


Handwritten signature and date:
5/28/10
K4/1/10

Data File: \\CASH1\Hocqudata\GC09\data\052710A_r.b\0527R036.D
Date: 28-MAY-2010 05:58
Client ID:
Sample Info: 1232/1262 @ 500ppb | PCBs-52L
Column phase: DB-2LB

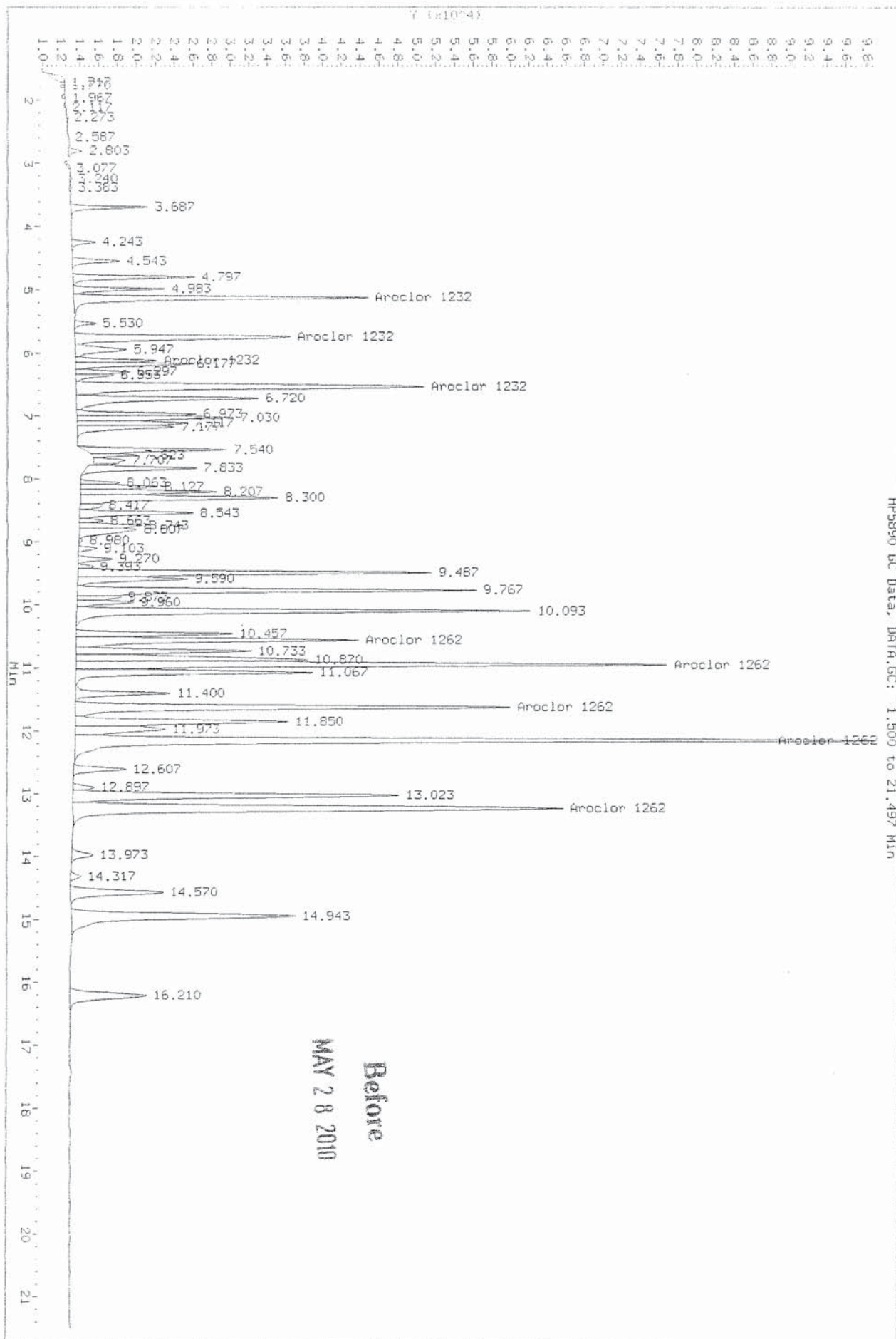
Instrument: GC09.i
Operator: LHarris
Column diameter: 0.53

\\CASH1\Hocqudata\GC09\data\052710A_r.b\0527R036.D



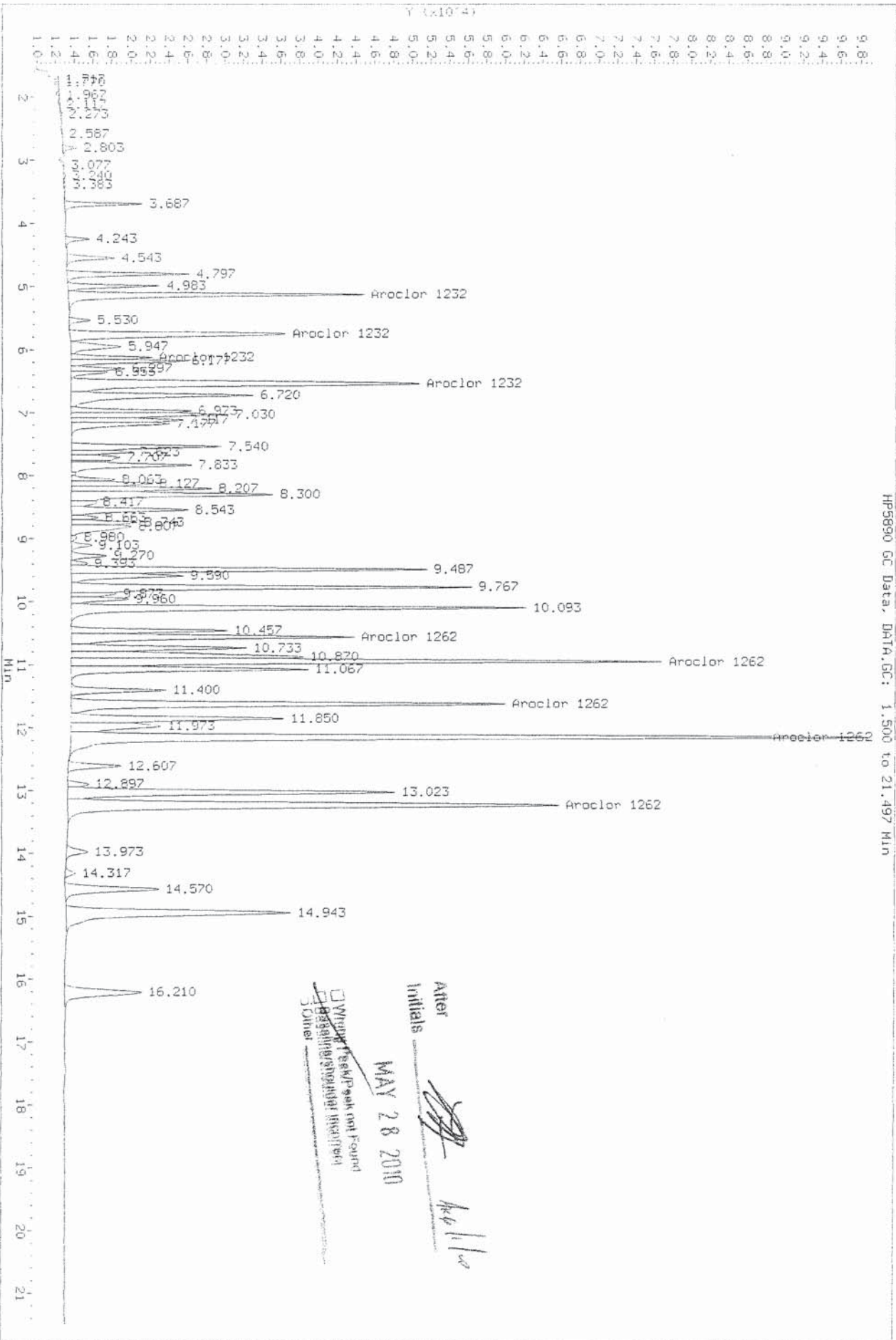
Data File: \\ncash1\acquadata\GC09\data\052710a.B\0527F036.D
Injection Date: 28-May-2010 05:58
Instrument: GC09.1
Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.497 MIN

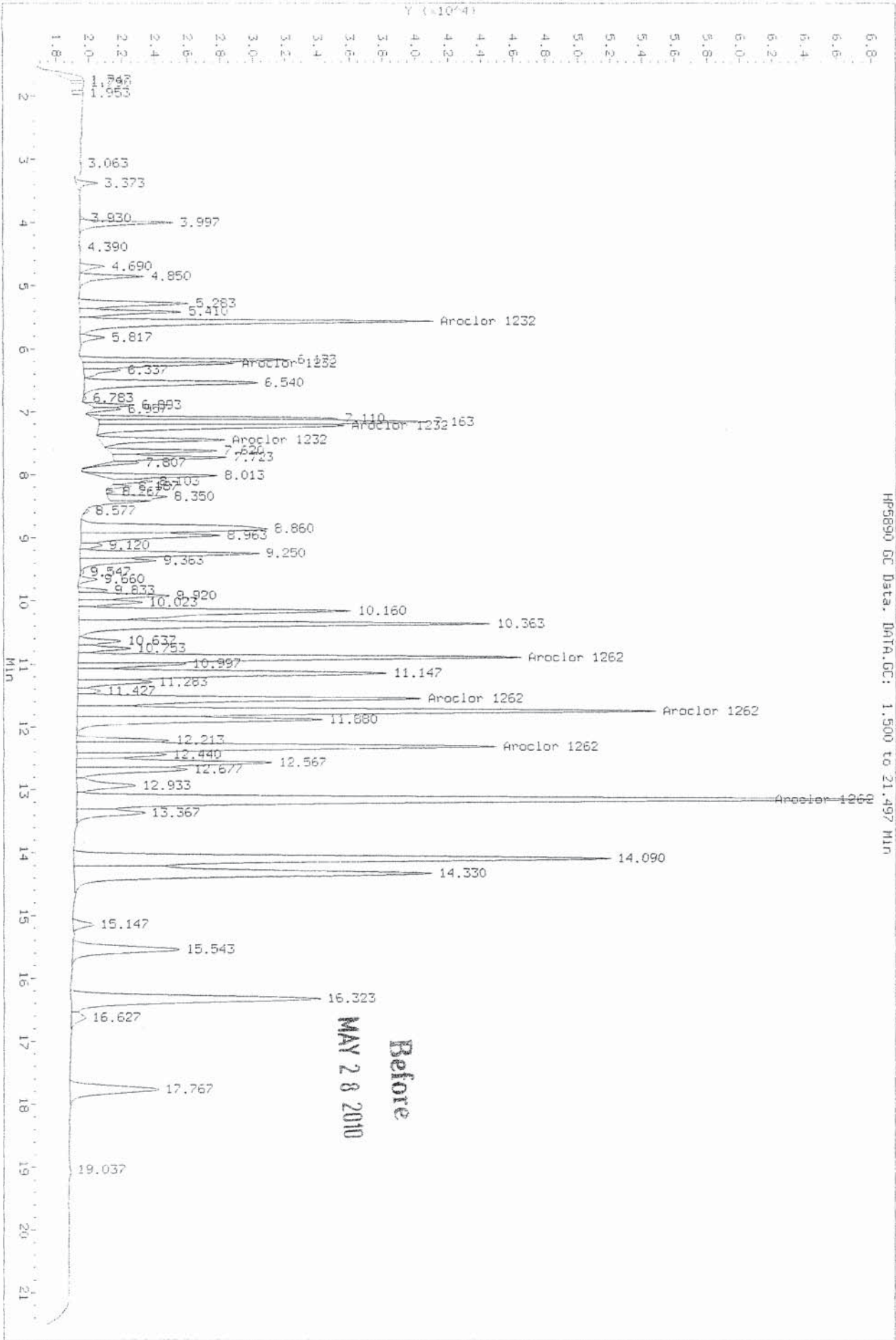


Before
MAY 28 2010

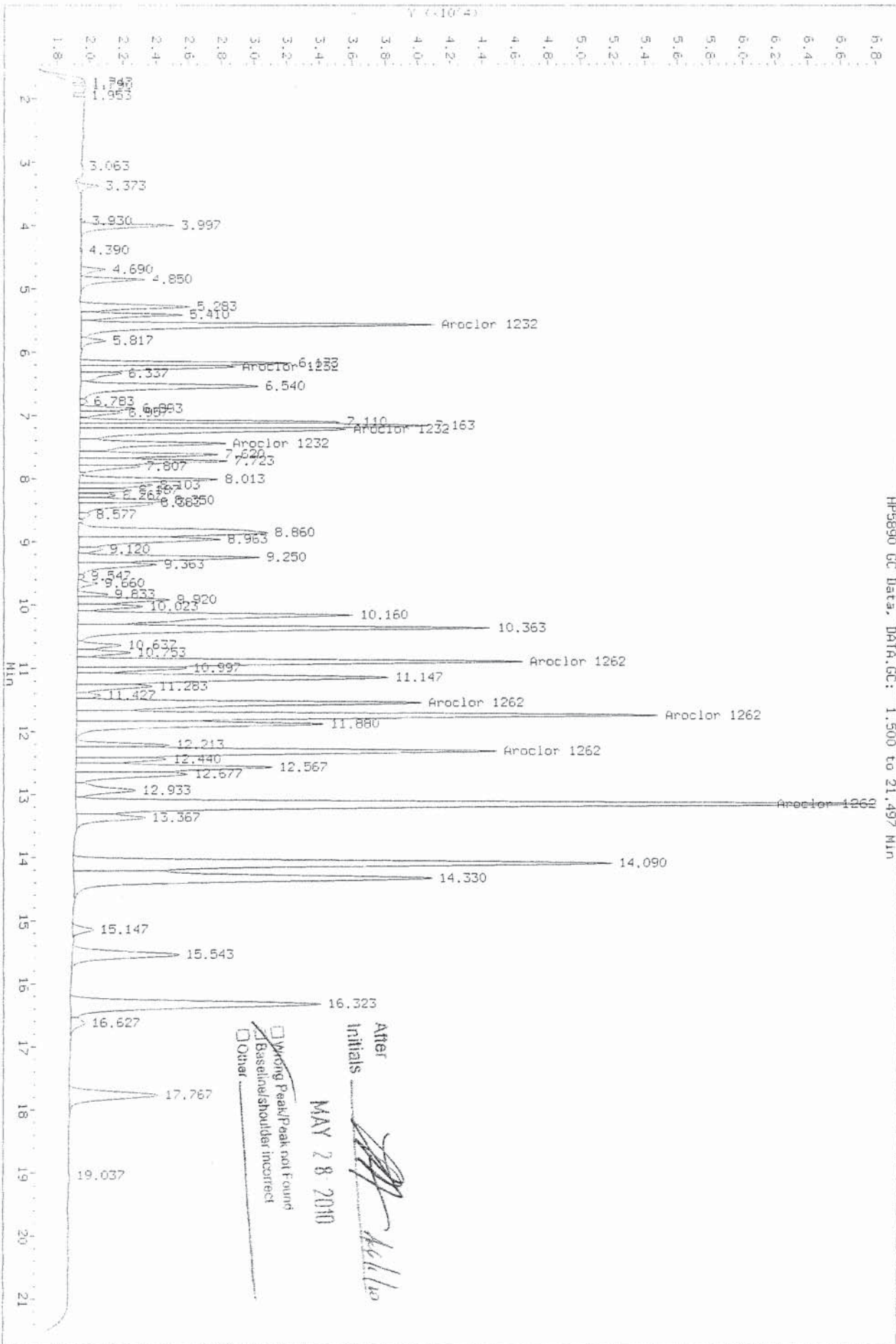
Data File: \\Cash1\Acqdata\GC09\data\0527109.B\0527F036.D
 Injection Date: 28-May-2010 05:58
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.497 Min



Data File: \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R036.D
 Injection Date: 28-MAY-2010 05:58
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F037.D
Report Date: 28-May-2010 17:29

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F037.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R037.D
Inj Date : 28-MAY-2010 06:24
Sample Info: 1232/1262 @ 1000ppb | PCB5-52M
Misc Info :
Cal Date : 28-MAY-2010 12:04
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : 1232+1262.sub
Sub List #2 : 1232+1262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	5.120	5.563	208284	176778	954	1000	80.00- 120.00	100.00 (M)
	5.747	6.230	194171	68619	962	1060	73.60- 110.40	93.22 (M)
	6.120	7.223	47599	133858	1060	999	17.45- 26.18	22.85 (M)
	6.540	7.447	349443	83549	979	1100	131.13- 196.70	167.77 (M)
	Average of Peak Amounts =				989	1040		
Aroclor 1262	10.560	10.893	231703	240748	949	1020	80.00- 120.00	100.00 (M)
	10.943	11.547	481660	213920	973	1020	166.27- 249.41	207.88 (M)
	11.623	11.743	383332	337267	987	991	129.39- 194.09	165.44 (M)
	12.143	12.313	740624	264534	1010	1030	249.74- 374.61	319.64 (M)
	13.230	13.147	558903	563040	1030	1020	188.68- 283.02	241.22 (M)
Average of Peak Amounts =				990	1020			

QC Flag Legend

M - Compound response manually integrated.

Handwritten signature and date:
5/28/10
10/6/10

Data File: \\CASH1\Acqudata\GC09\data\062710A.B\0627F037.D

Date: 28-May-2010 06:24

Client ID:

Sample Info: 1232/1262 @ 1000ppb | PCB5-52H

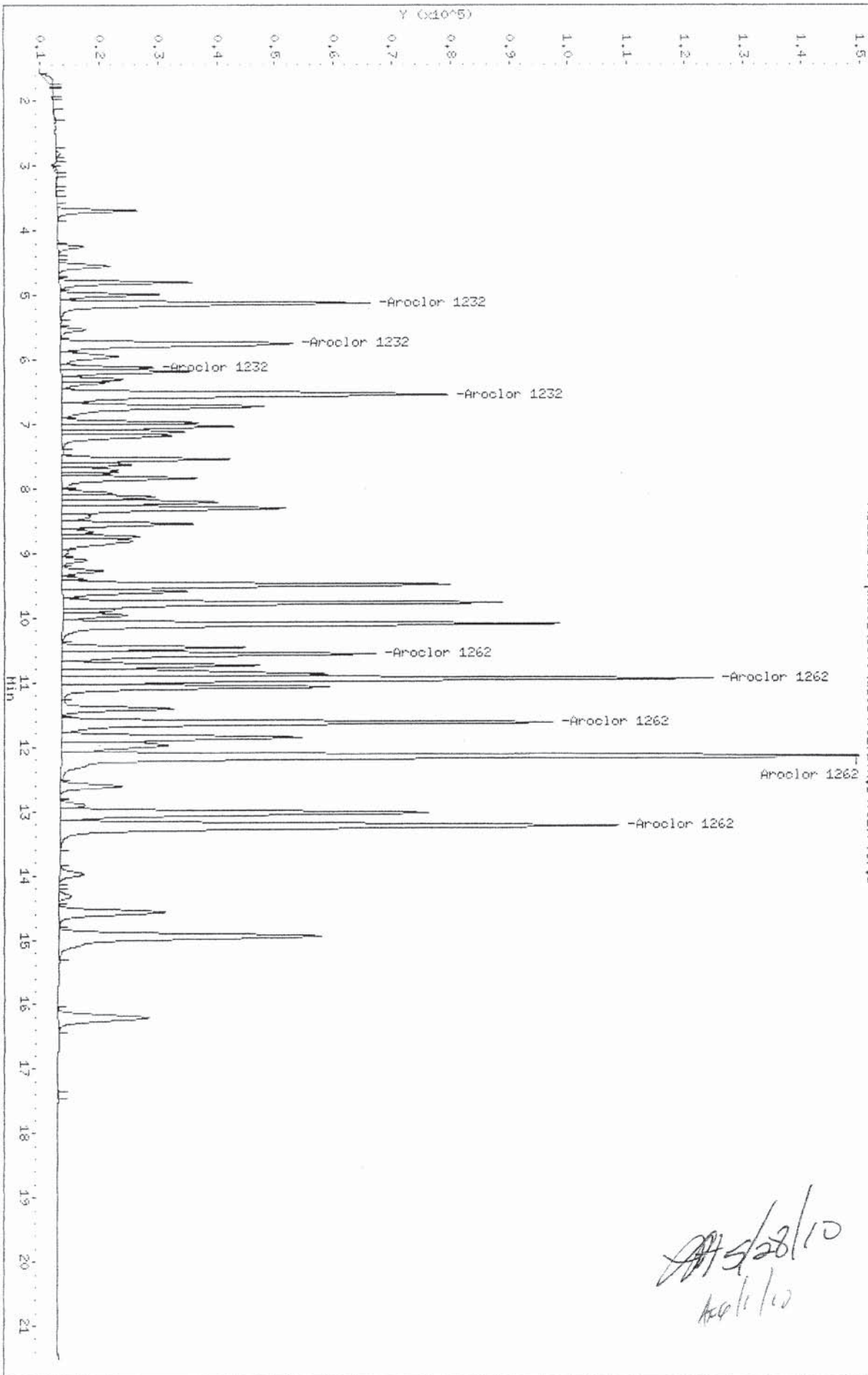
Column phase: DB-35MS

Instrument: GC09.1

Operator: LHarris

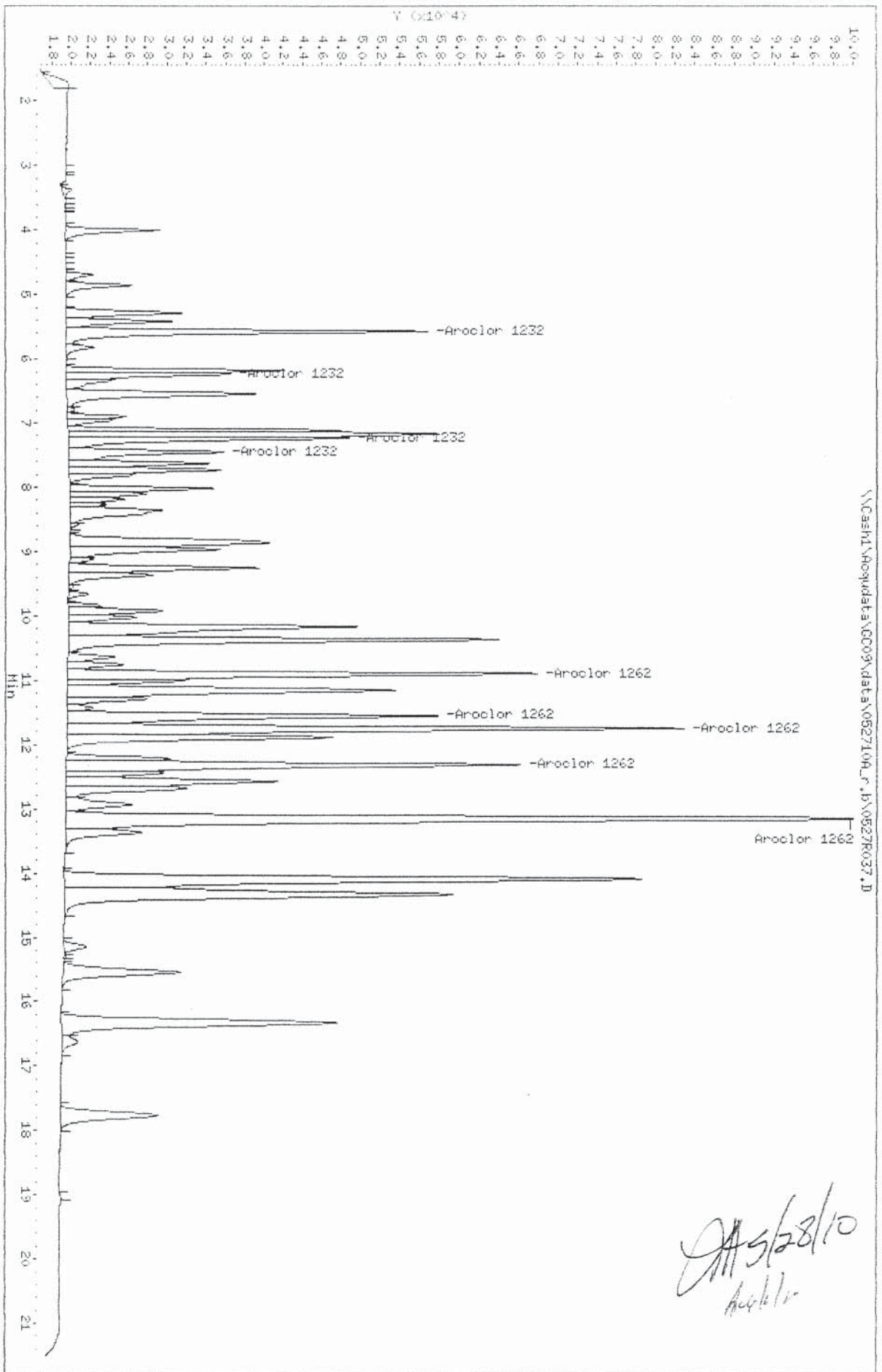
Column diameter: 0.53

\\CASH1\Acqudata\GC09\data\062710A.B\0627F037.D



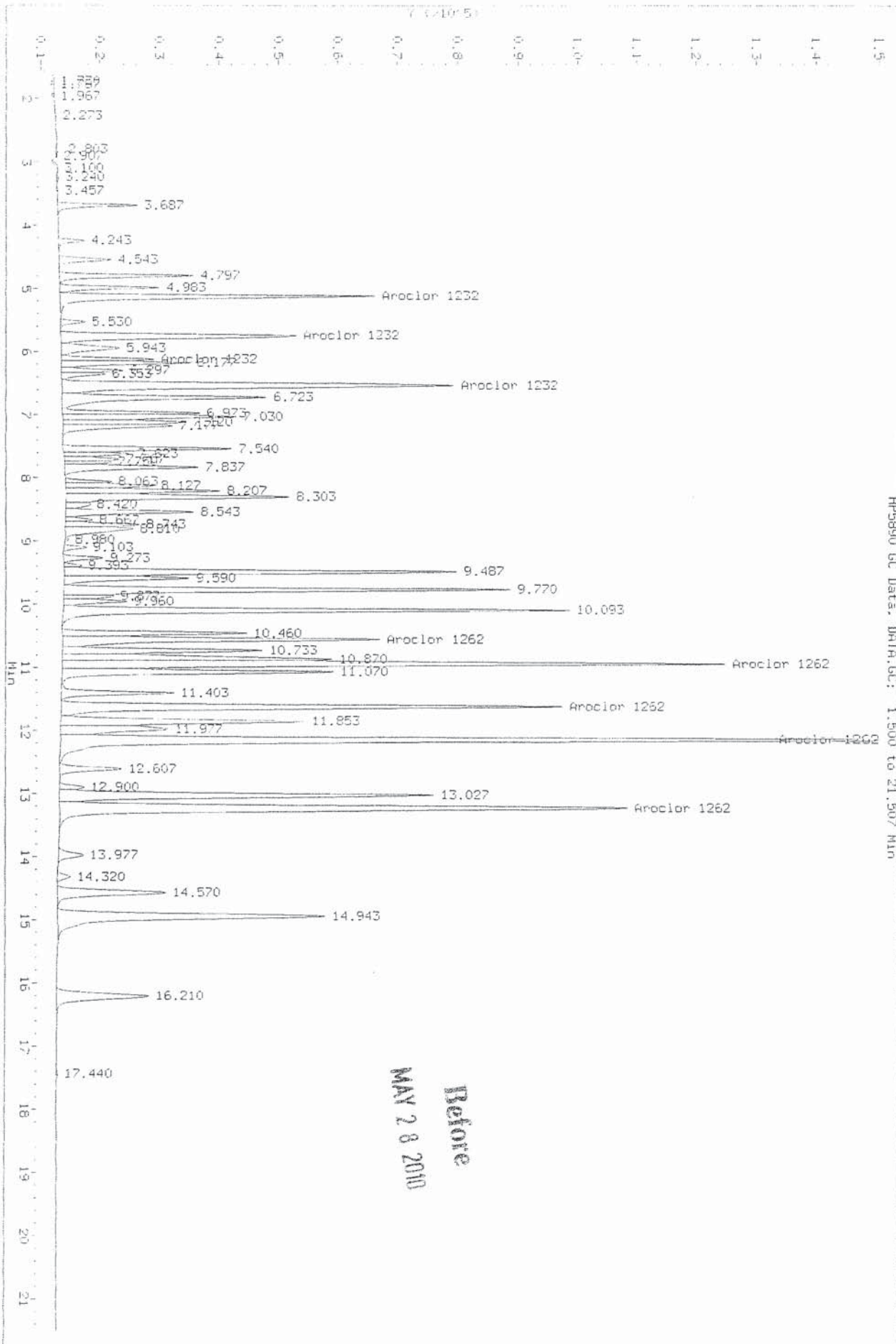
Data File: \\CASH1\hpc\qudata\GC09\data\0527104_L1.B\0527R037.D
 Date: 28-May-2010 06:24
 Client ID:
 Sample Info: 1232/1262 @ 1000ppb | PCB5-52M
 Column Phase: DB-MLB

Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53



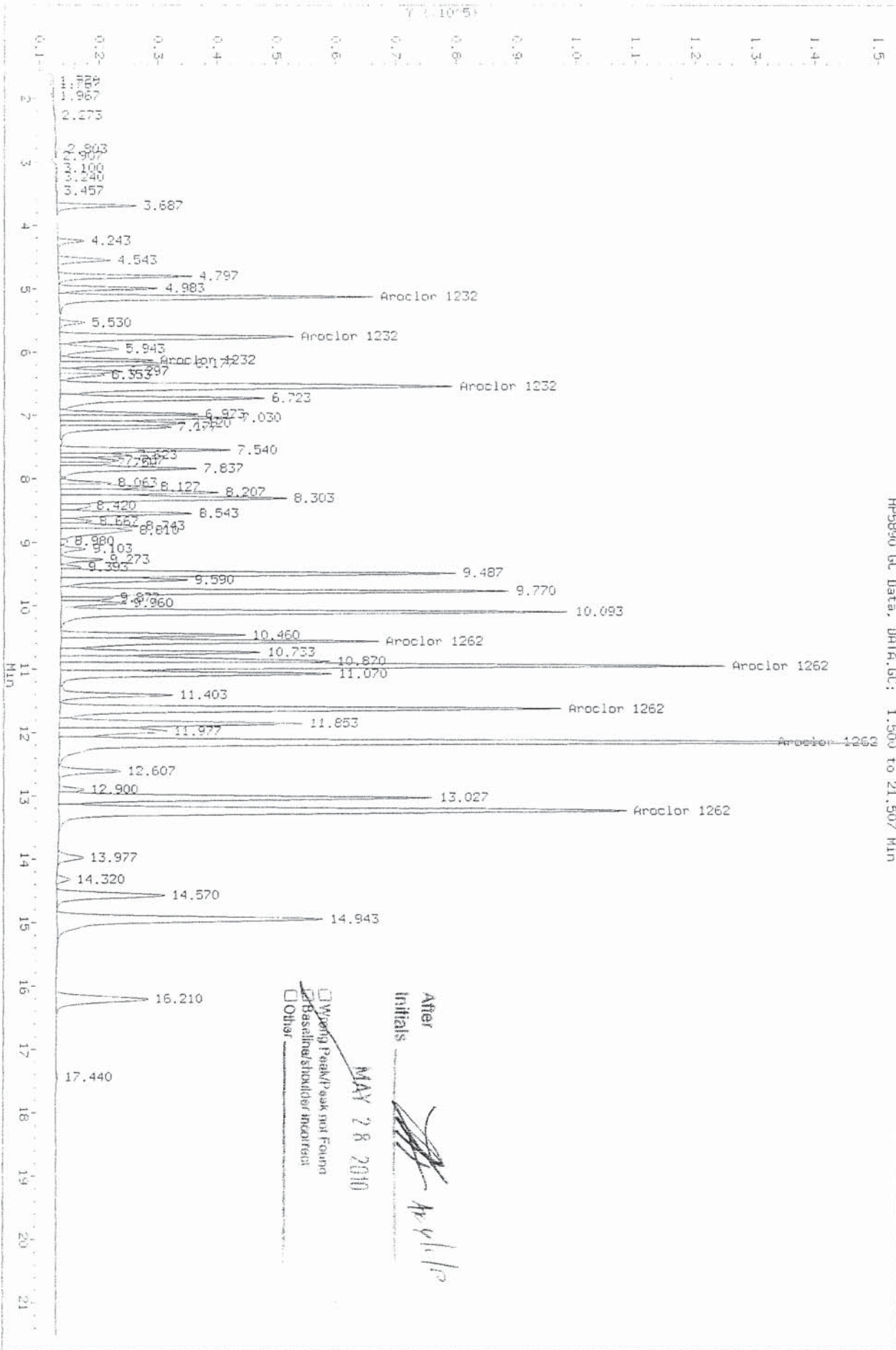
Handwritten signature: JH 5/28/10
 Harris

Data File: \Casht1\Acq\data\GC09\data\0527104_BV0527F037.D
Injection Date: 28-MAY-2010 06:24
Instrument: GC09.1
Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.507 MIN

Data File: \\dash1\pcq\data\GC09\data\0527106_B\0527F037.D
 Injection Date: 28-May-2010 06:24
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F038.D
 Report Date: 28-May-2010 17:29

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F038.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R038.D
 Inj Date : 28-MAY-2010 06:50
 Sample Info: 1232/1262 @ 2000ppb | PCB5-52N
 Misc Info :
 Cal Date : 28-MAY-2010 13:16
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

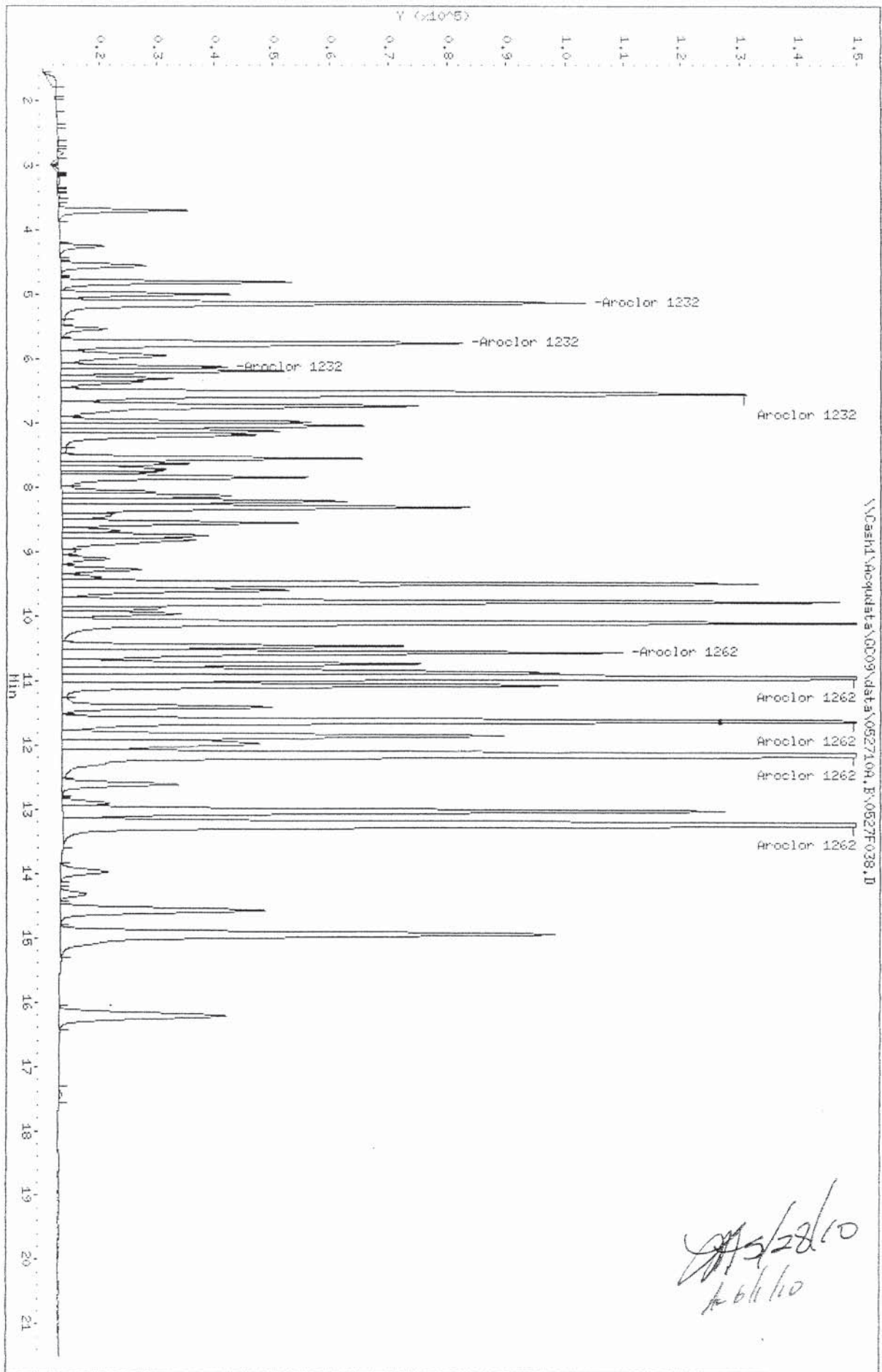
Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1232+1262.sub
 Sub List #2 : 1232+1262.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	5.120	5.563	360855	314112	1650	1780	80.00-120.00	100.00
	5.743	6.230	343131	131899	1700	2020	73.60-110.40	95.09
	6.120	7.220	86461	253535	1920	1880	17.45-26.18	23.96
	6.540	7.447	622650	160958	1740	2110	131.13-196.70	172.55
	Average of Peak Amounts =					1750	1950	
Aroclor 1262	10.557	10.893	420338	446871	1720	1880	80.00-120.00	100.00
	10.943	11.547	859523	410604	1740	1950	166.27-249.41	204.48
	11.620	11.743	702866	623192	1810	1830	129.39-194.09	167.21
	12.143	12.310	1360891	502806	1850	1950	249.74-374.61	323.76
	13.230	13.143	1031973	1060977	1900	1920	188.68-283.02	245.51
Average of Peak Amounts =					1800	1910		

Handwritten signature and date:
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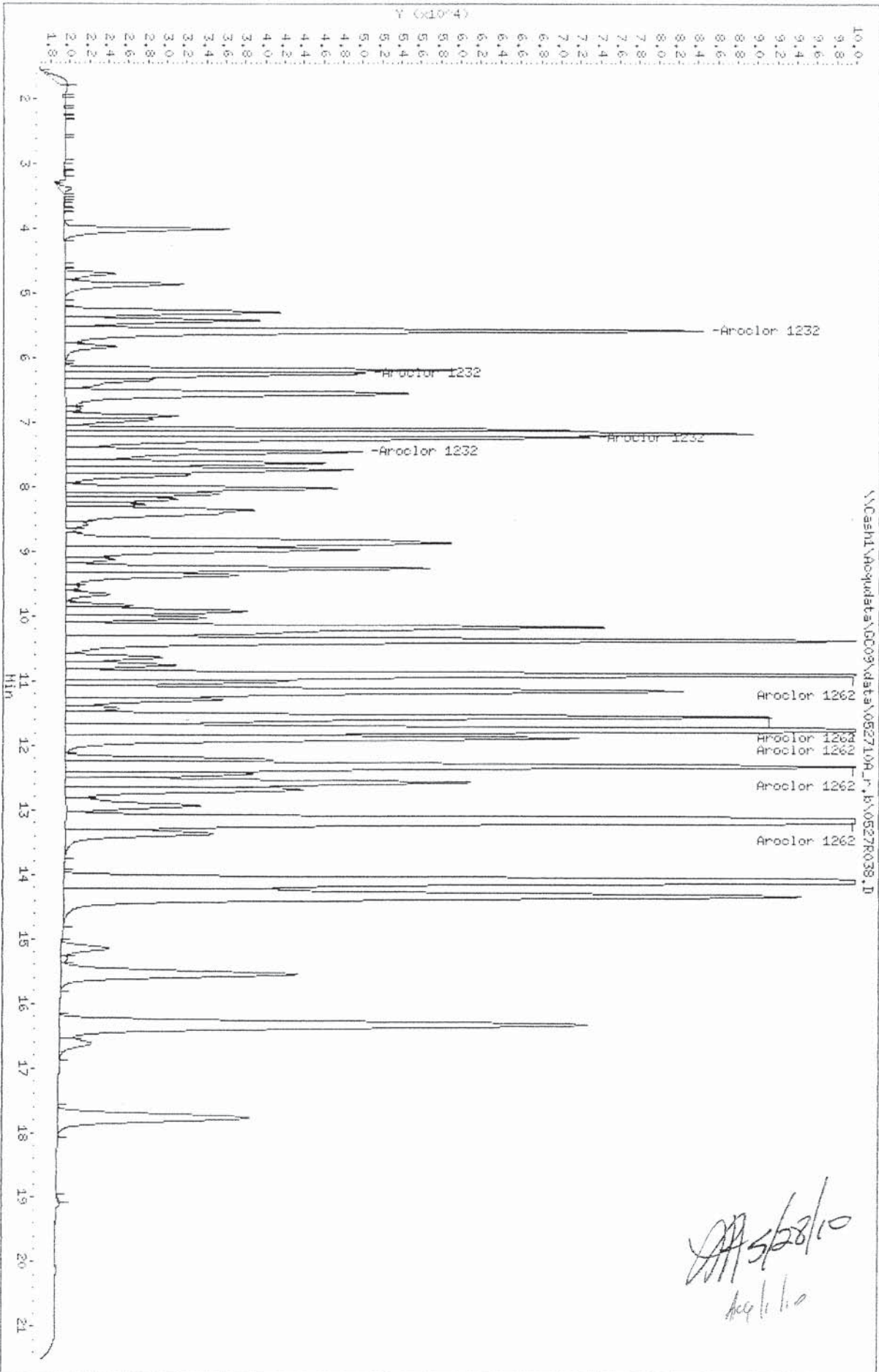
Data File: \\CASHD\Acq\data\CC09\data\052710A_B\0527038.D
Date: 28-NOV-2010 06:50
Client ID:
Sample Info: 1232/1262 @ 2000ppb | PCB8-82H
Column Phase: DB-35MS

Instrument: GC09.1
Operator: L.Harris
Column diameter: 0.53

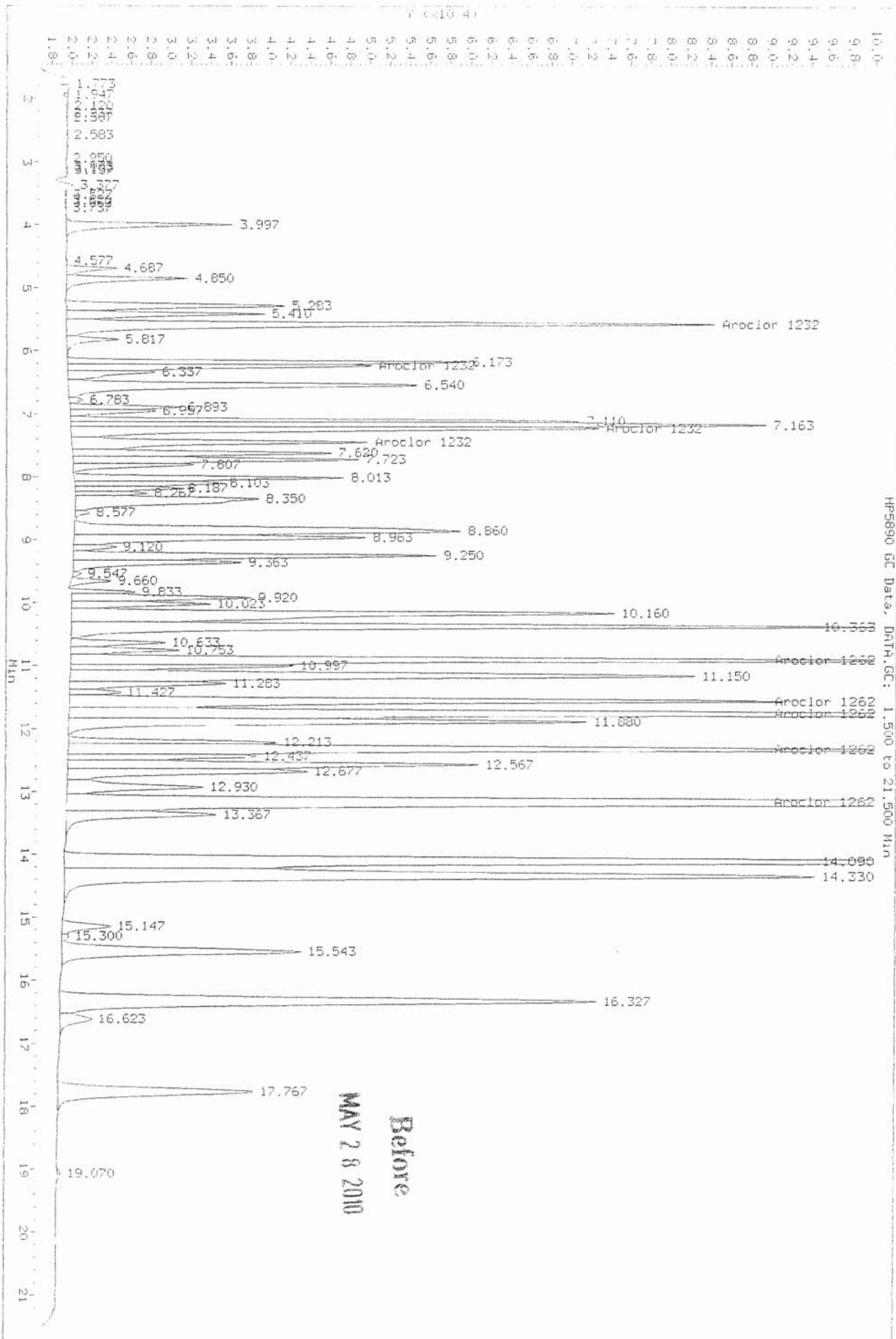


Data File: \\Cash1\Aoc\data\0009\data\052710A_1.D\0527R038.D
Date: 28-Nov-2010 06:50
Client ID:
Sample Info: 1232/1262 @ 2000ppb | PCBs-52H
Column phase: DB-XLB

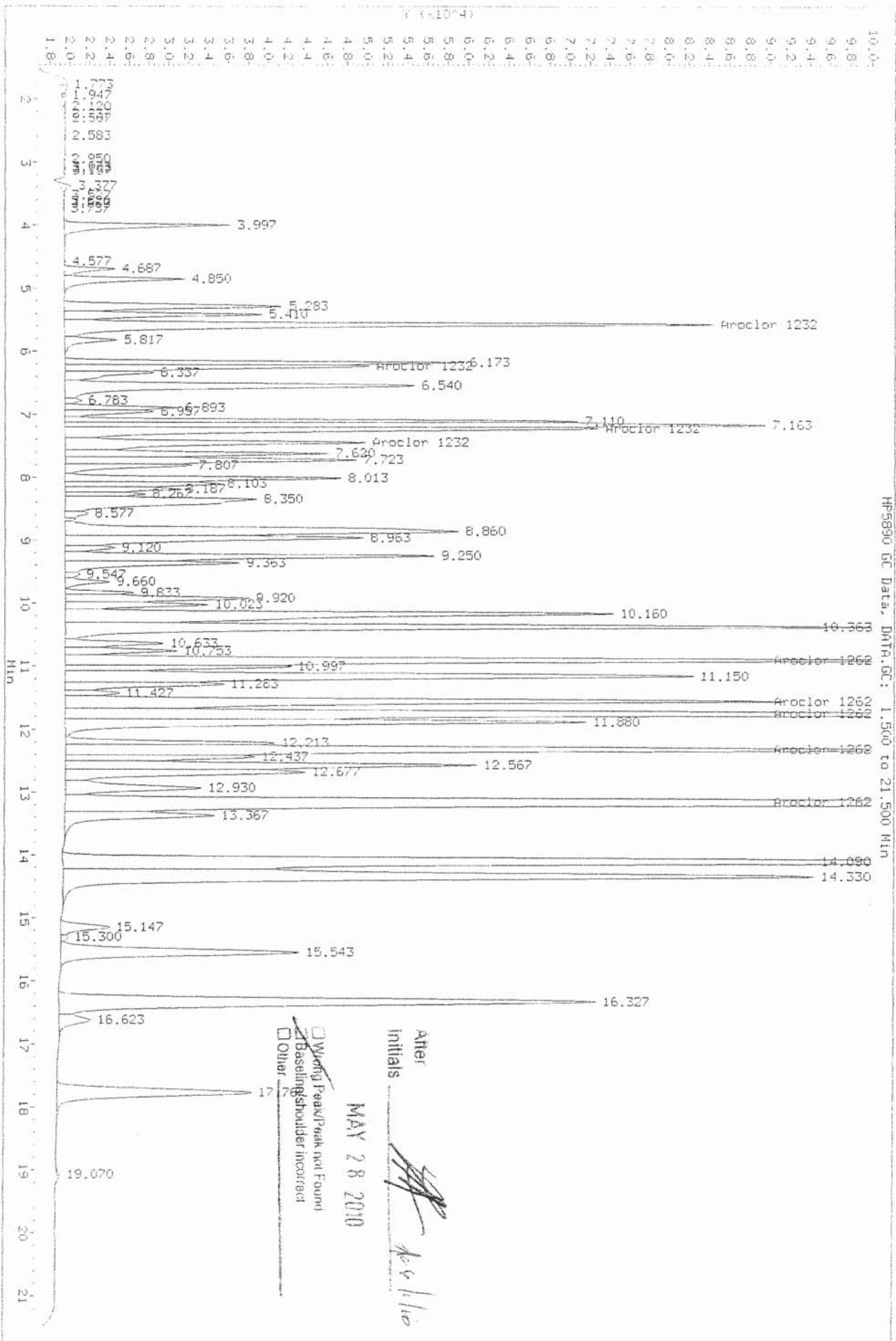
Instrument: 0009.1
Operator: LHarris
Column diameter: 0.53



Data File: \\Caedn\vaquodata\GC09\data\0527104_1.D\05278038.D
 Injection Date: 28-May-2010 06:50
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acq\data\GC09\data\052710A_r.b\0527R038.D
 Injection Date: 28-May-2010 06:50
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acqdata\GC09\data\052710A.B\0527F039.D
 Report Date: 28-May-2010 17:29

Columbia Analytical Services

Sample #1 : \\Cash1\Acqdata\GC09\data\052710A.B\0527F039.D
 Sample #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\0527R039.D
 Inj Date : 28-MAY-2010 07:17
 Sample Info: 1232/1262 @ 5000ppb | PCB5-520
 Misc Info :
 Cal Date : 28-MAY-2010 13:16
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

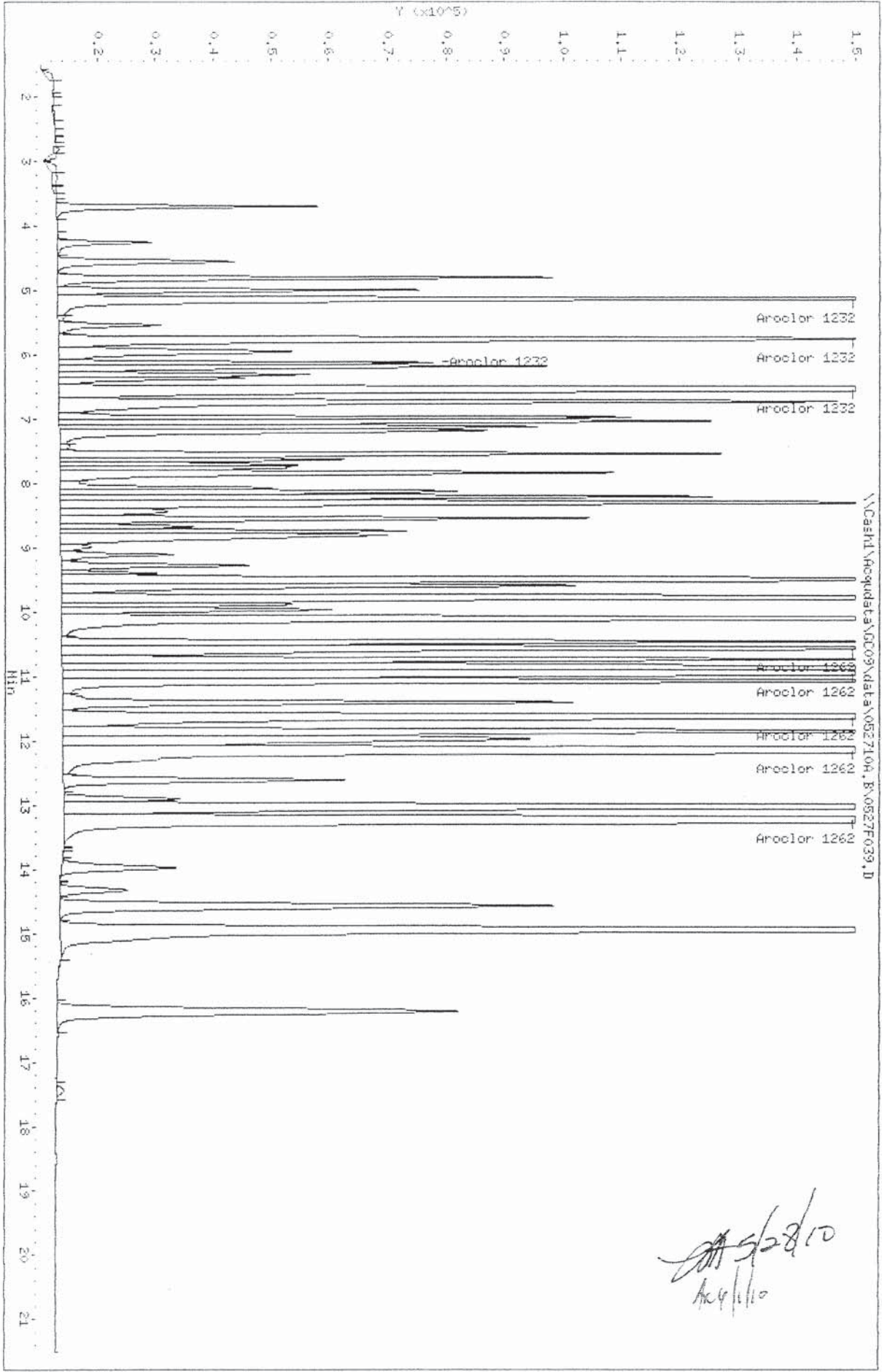
Method #1 : \\Cash1\Acqdata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1232+1262.sub
 Sub List #2 : 1232+1262.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	5.120	5.563	738377	675383	3380	3830	80.00- 120.00	100.00
	5.743	6.230	718670	290868	3560	4460	73.60- 110.40	97.33
	6.117	7.220	192260	553847	4260	4110	17.45- 26.18	26.04
	6.537	7.447	1333496	371430	3740	4880	131.13- 196.70	180.60
	Average of Peak Amounts =					3740	4320	
Aroclor 1262	10.557	10.890	945544	998865	3870	4210	80.00- 120.00	100.00
	10.940	11.547	1893966	959335	3820	4560	166.27- 249.41	200.30
	11.620	11.743	1579879	1411105	4070	4140	129.39- 194.09	167.09
	12.140	12.310	3070079	1178432	4180	4570	249.74- 374.61	324.69
	13.227	13.143	2348218	2476048	4320	4480	188.68- 283.02	248.35
Average of Peak Amounts =					4050	4390		

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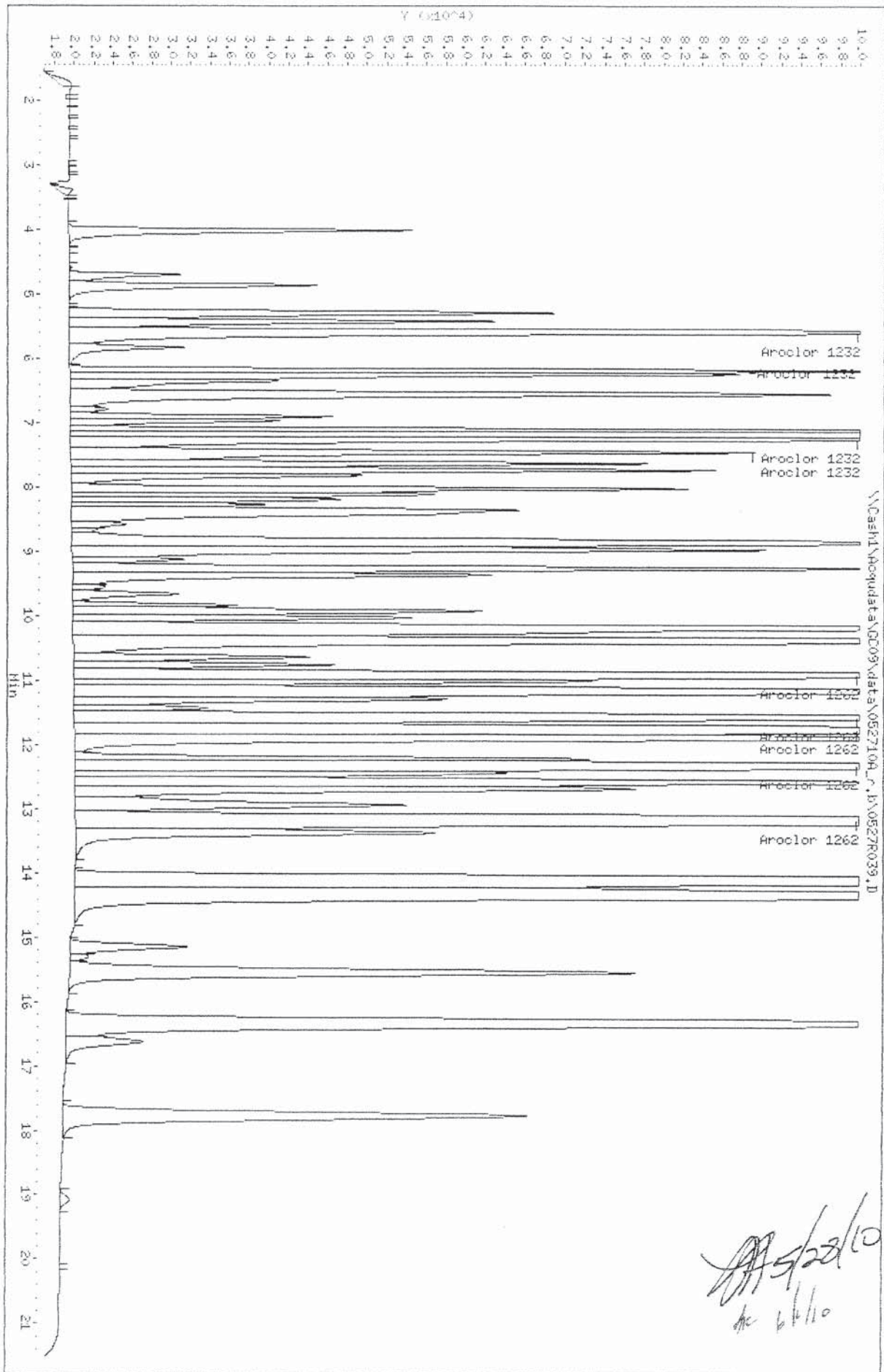
Data File: \CASH1\Acq\data\GC09\data\0527104.B\0527F039.D
Date: 28-MAY-2010 07:17
Client ID:
Sample Info: 1232/1262 @ 5000ppb | PCB8-520
Column phase: DB-25MS

Instrument: GC09.i
Operator: LHarris
Column diameter: 0.53



Data File: \\CASH1\hsc\qudata\GC09\data\052710A_r.j\0527R039.D
Date: 28-MAY-2010 07:17
Client ID:
Sample Info: 1232, 1262 @ 5000ppb | PCB5-520
Column phase: DB-MLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Columbia Analytical Services

Sample #1 : \\Cash1\Acqdata\GC09\data\052710A.B\0527F040.D
 Sample #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\0527R040.D
 Inj Date : 28-MAY-2010 07:43
 Sample Info: 1242/1268 @ 25ppb | PCB5-52P
 Misc Info :
 Cal Date : 28-MAY-2010 12:05
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1242+1268.sub
 Sub List #2 : 1242+1268.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	6.117	6.230	2189	2592	28.6	20.7	80.00- 120.00	100.00 (M)
	6.540	6.540	19058	4258	30.9	26.4	727.90-1091.85	870.63 (M)
	7.117	7.110	3946	3951	28.8	28.9	150.61- 225.91	180.26 (M)
	7.540	7.623	5835	2581	30.0	23.0	230.50- 345.75	271.13 (M)
	7.837	7.727	4985	2850	26.7	22.1	198.70- 298.04	227.73 (M)
	Average of Peak Amounts =				29.0	24.2		
Aroclor 1268	13.027	14.340	30733	20882	30.3	27.2	80.00- 120.00	100.00 (M)
	13.213	15.147	27378	16722	29.3	27.5	70.89- 106.33	89.08 (M)
	13.977	15.480	22388	4112	29.7	25.5	58.04- 87.06	72.85 (M)
	14.947	16.330	7889	6294	25.5	25.2	20.96- 31.43	25.67 (M)
	16.213	17.770	66814	53482	31.2	29.4	172.26- 258.39	217.40 (M)
	Average of Peak Amounts =				29.2	27.0		

QC Flag Legend

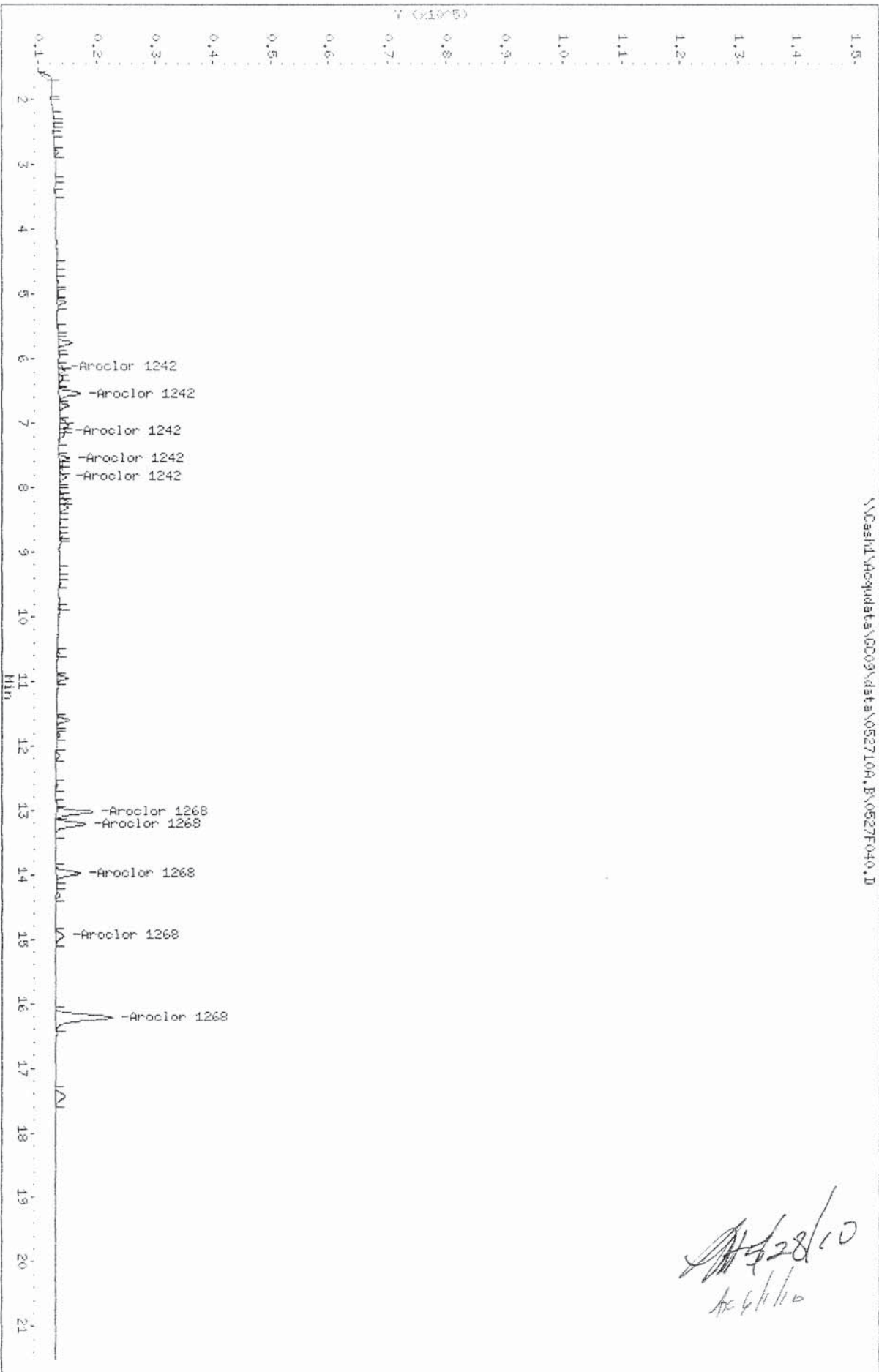
M - Compound response manually integrated.

AS/22/10
AS/22/10

Data File: \\CASH1\Acqudata\0009\data\052710H.F\0527F040.D
Date: 28-May-2010 07:43
Client ID:
Sample Info: 1242/1268 @ 25ppb | PCBs-52P
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

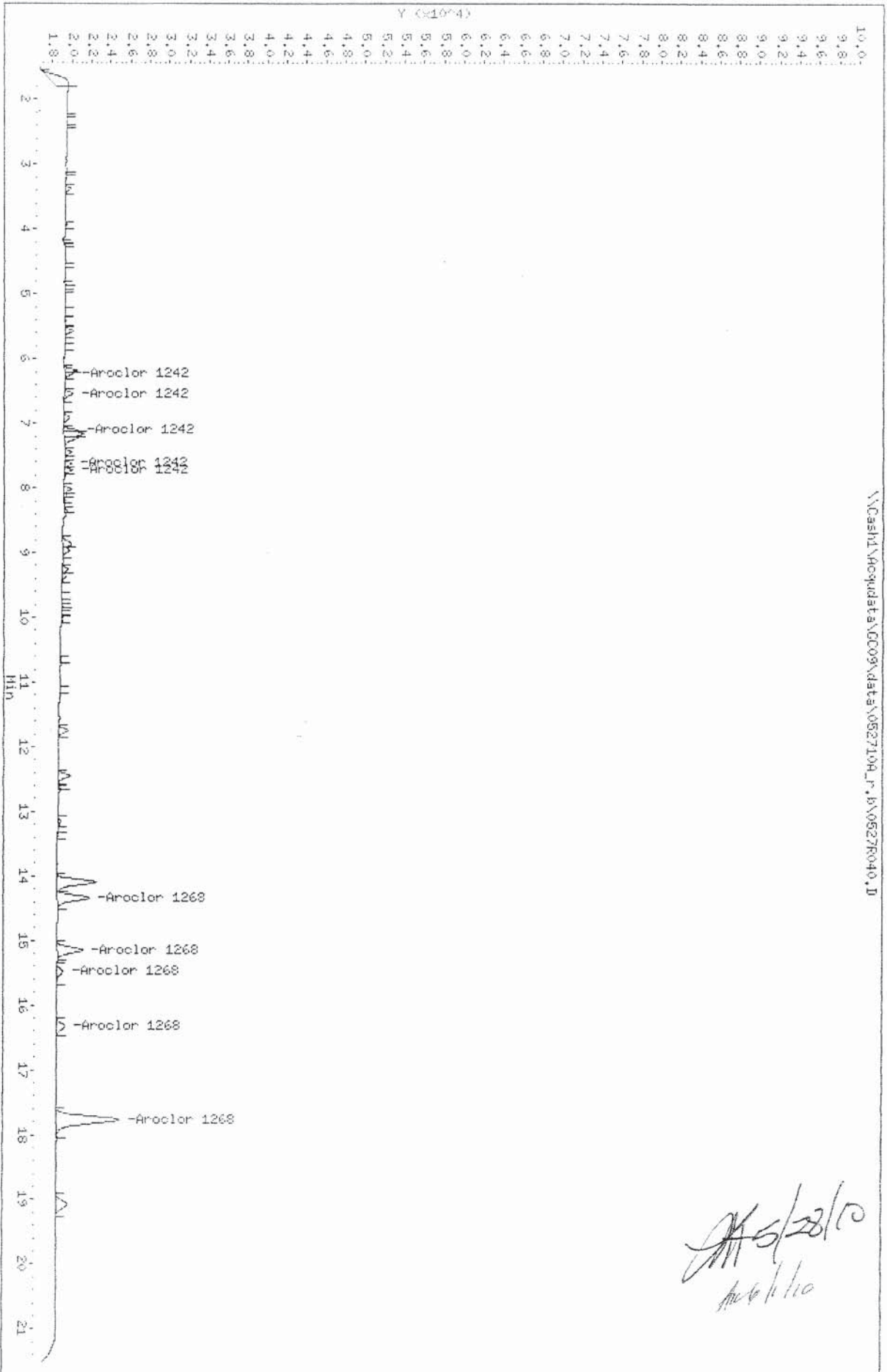
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Handwritten signature and date:
Harris
5/28/10

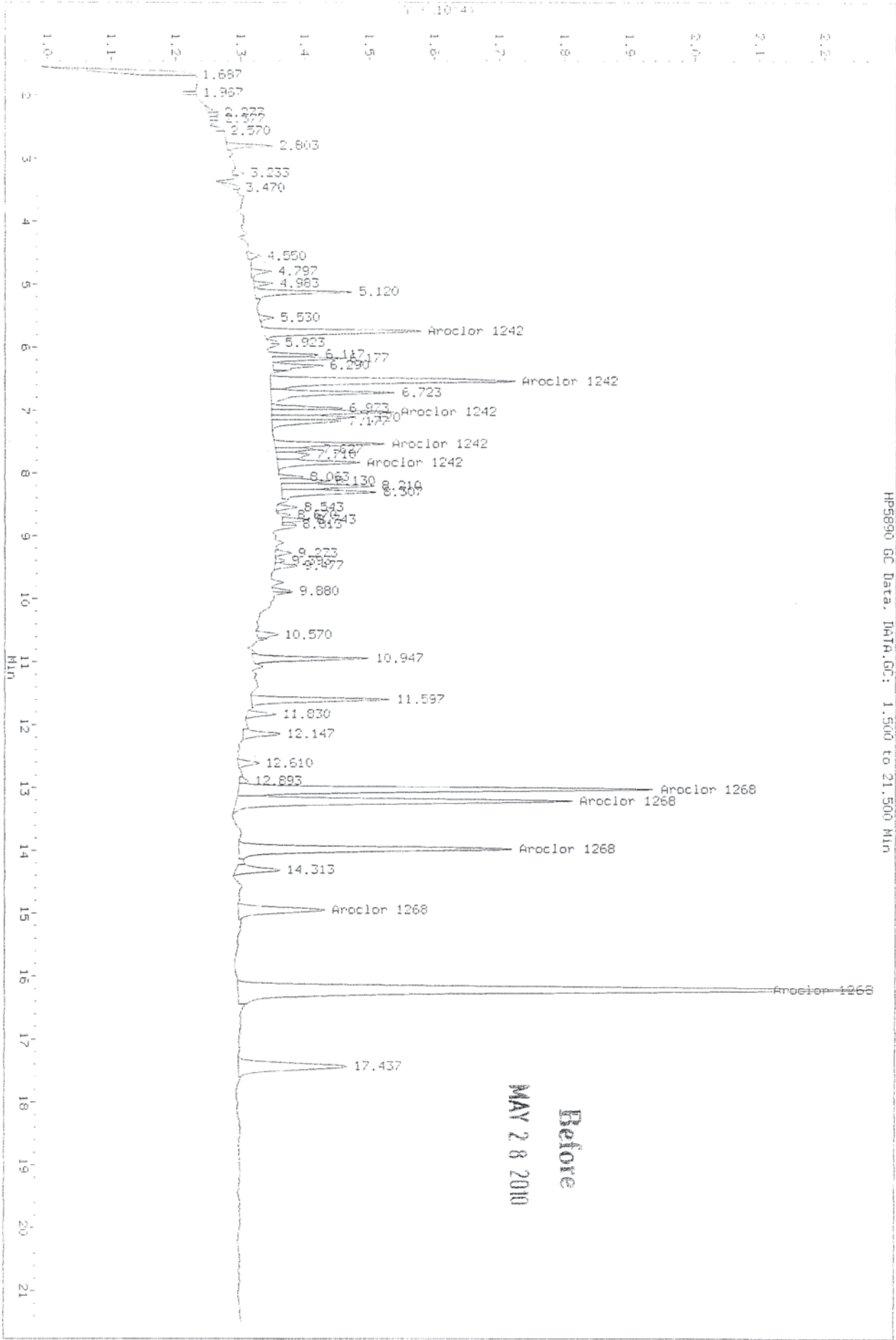
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 Date: 28-MAY-2010 07:43
 Client ID:
 Sample Info: 1242/1268 @ 20ppb | PCB5-52P
 Column phase: DB-XLB

Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53



Handwritten signature and date:
 5/28/10
 LHarris

Data File: \\CASH\gc\data\GC09\data\052210A-B\0522F040.D
Injection Date: 28-May-2010 07:43
Instrument: GC09.1
Client Sample ID:

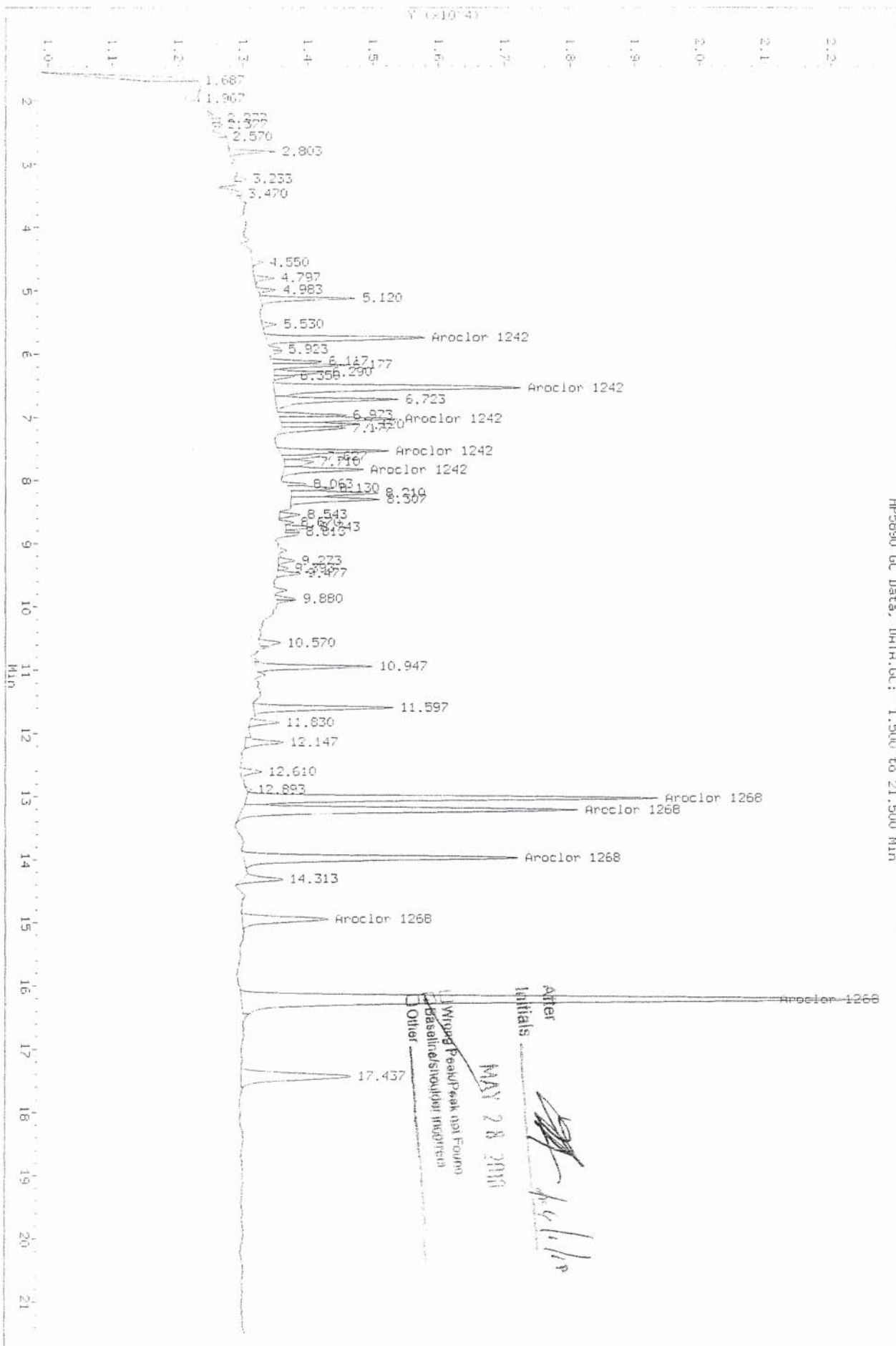


HP5890 GC Data: DATA.GC: 1.500 to 21.500 Min

Before
MAY 28 2010

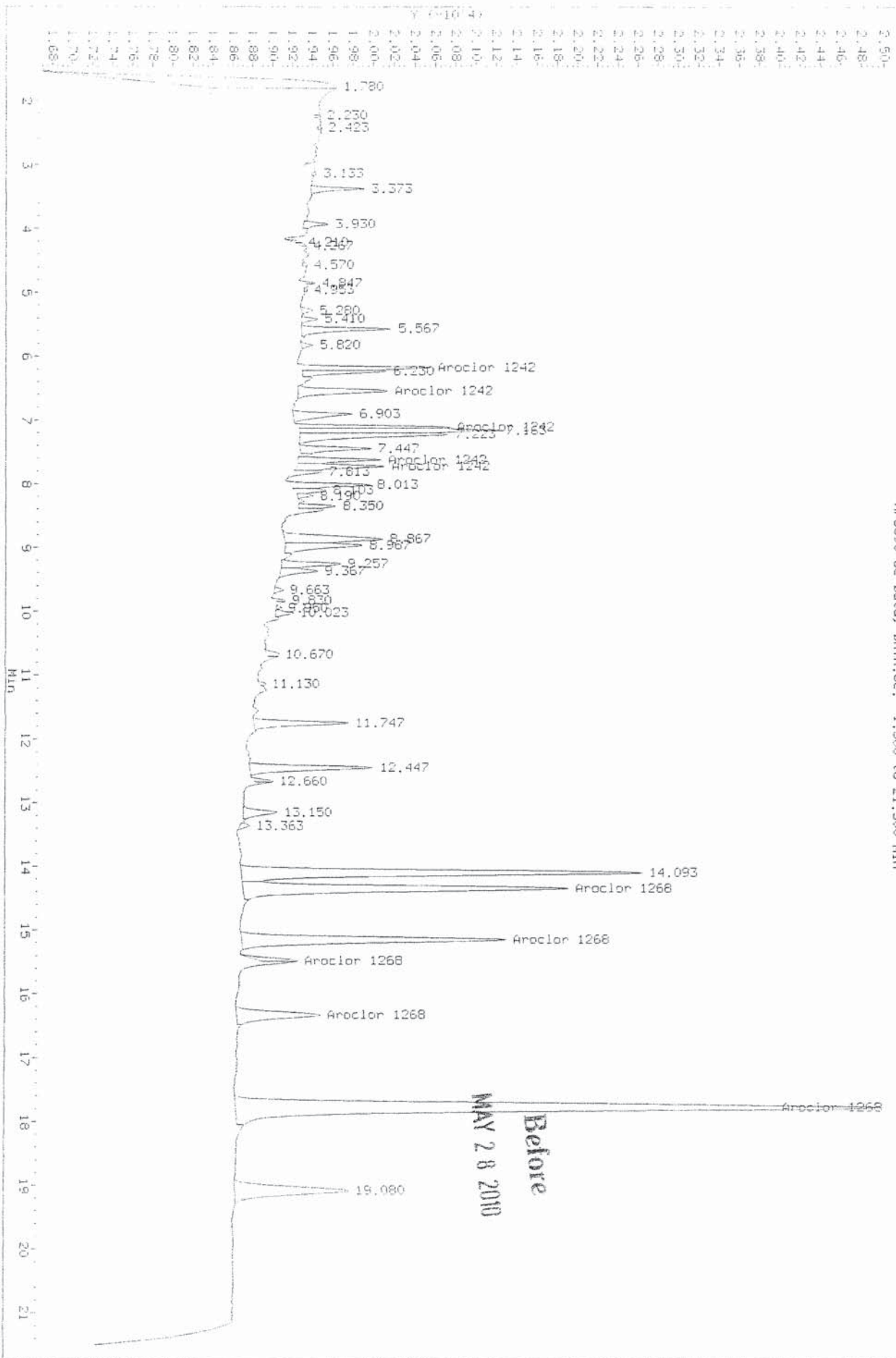
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 Injection Date: 28-MAY-2010 07:43
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DHR.GC: 1.500 to 21.500 Min



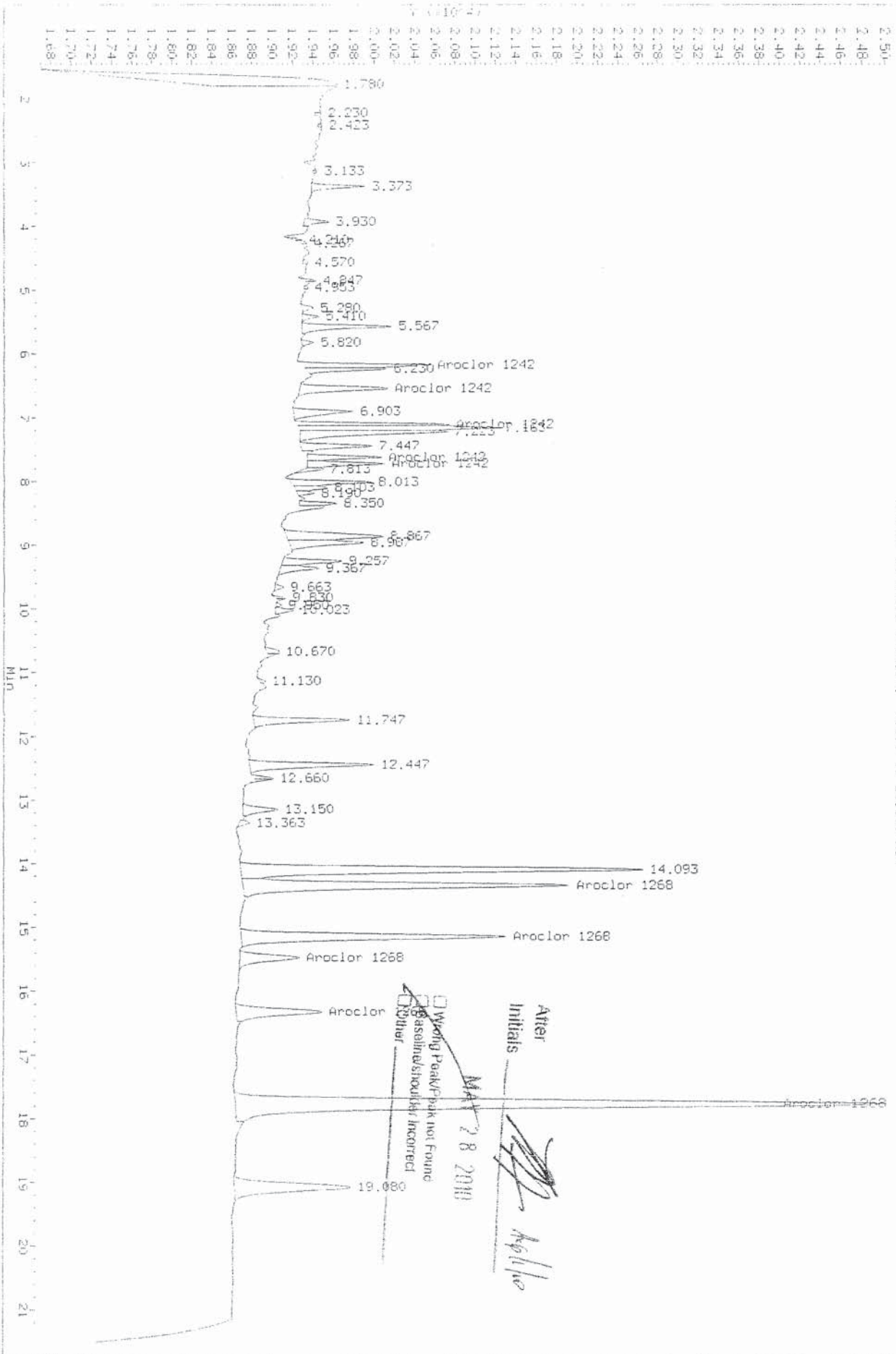
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 Injection Date: 28-MAY-2010 07:43
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.500 MIN



Data File: \\Casha1\Acqudata\GC09\data\052710A.LR.D\0527R040.D
 Injection Date: 28-Mar-2010 07:43
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.500 Min



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F041.D
 Report Date: 28-May-2010 17:30

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F041.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R041.D
 Inj Date : 28-MAY-2010 08:09
 Sample Info: 1242/1268 @ 50ppb | PCB5-52Q
 Misc Info :
 Cal Date : 28-MAY-2010 13:56
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1242+1268.sub
 Sub List #2 : 1242+1268.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	6.120	6.233	3866	5771	50.4	49.7	80.00- 120.00	100.00 (M)
	6.540	6.543	35175	8272	57.6	51.3	727.90-1091.85	909.88 (M)
	7.120	7.113	7278	7955	53.2	58.3	150.61- 225.91	188.26 (M)
	7.540	7.623	11139	6126	56.2	54.7	230.50- 345.75	288.13 (M)
	7.837	7.727	9602	6766	51.5	52.4	198.70- 298.04	248.37 (M)
	Average of Peak Amounts =				53.8	53.3		
Aroclor 1268	13.030	14.343	57560	40523	56.8	52.8	80.00- 120.00	100.00
	13.217	15.150	51003	32054	54.6	52.8	70.89- 106.33	88.61
	13.980	15.480	41761	7540	55.4	46.8	58.04- 87.06	72.55
	14.950	16.330	15078	12275	48.8	49.1	20.96- 31.43	26.20
	16.213	17.773	123942	100149	58.0	55.1	172.26- 258.39	215.33
	Average of Peak Amounts =				54.7	51.3		

QC Flag Legend

M - Compound response manually integrated.

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Data File: \\Casht\Acqudata\0009\data\0527104.E\0527F041.D

Date : 28-May-2010 08:09

Client ID:

Sample Info: 1242/1268 @ Soppo 1 PCB5-520

Column Phase: DB-29HS

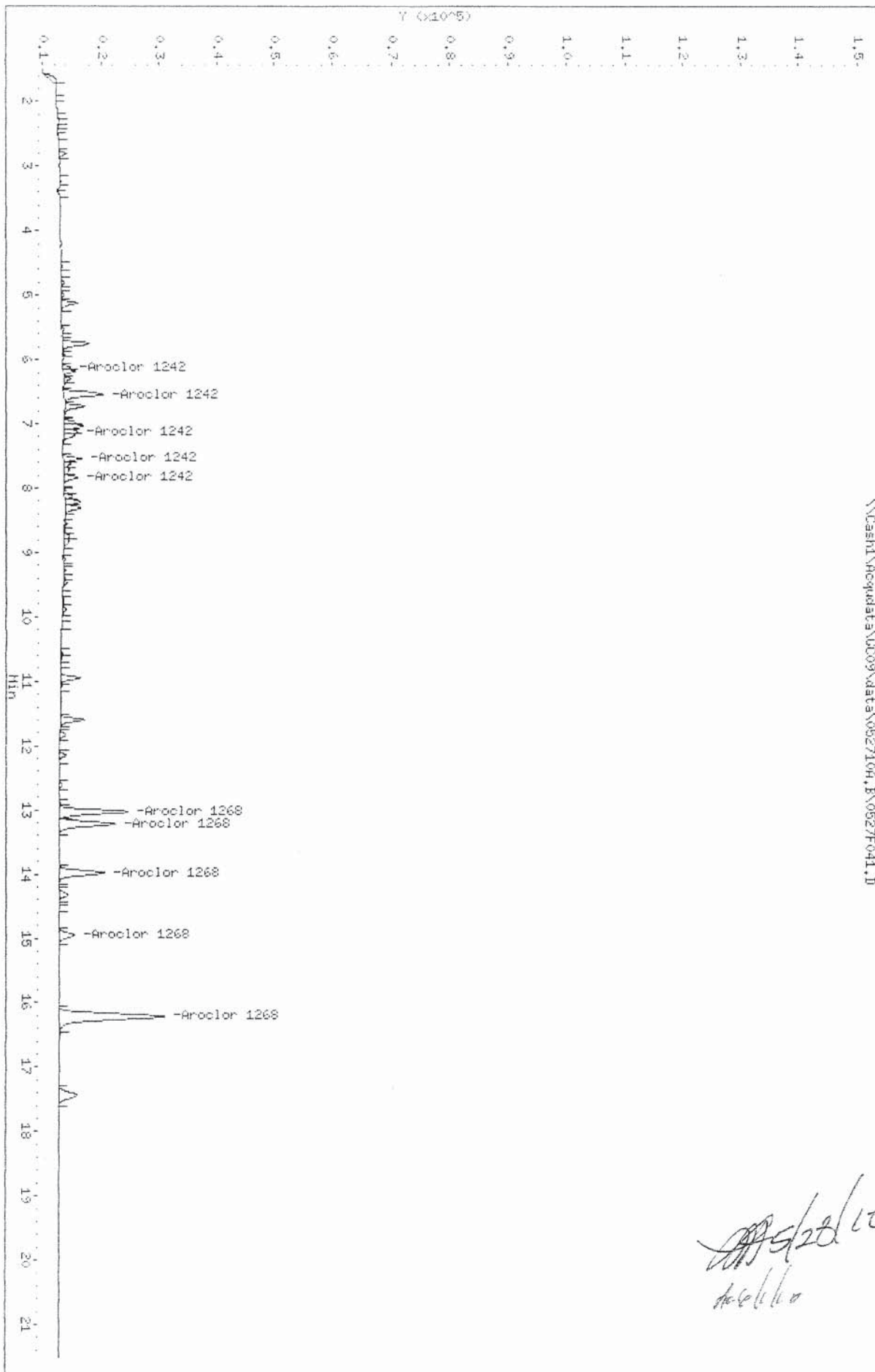
Instrument: 6009.1

Operator: LHarris

Column diameter: 0.53

\\Casht\Acqudata\0009\data\0527104.E\0527F041.D

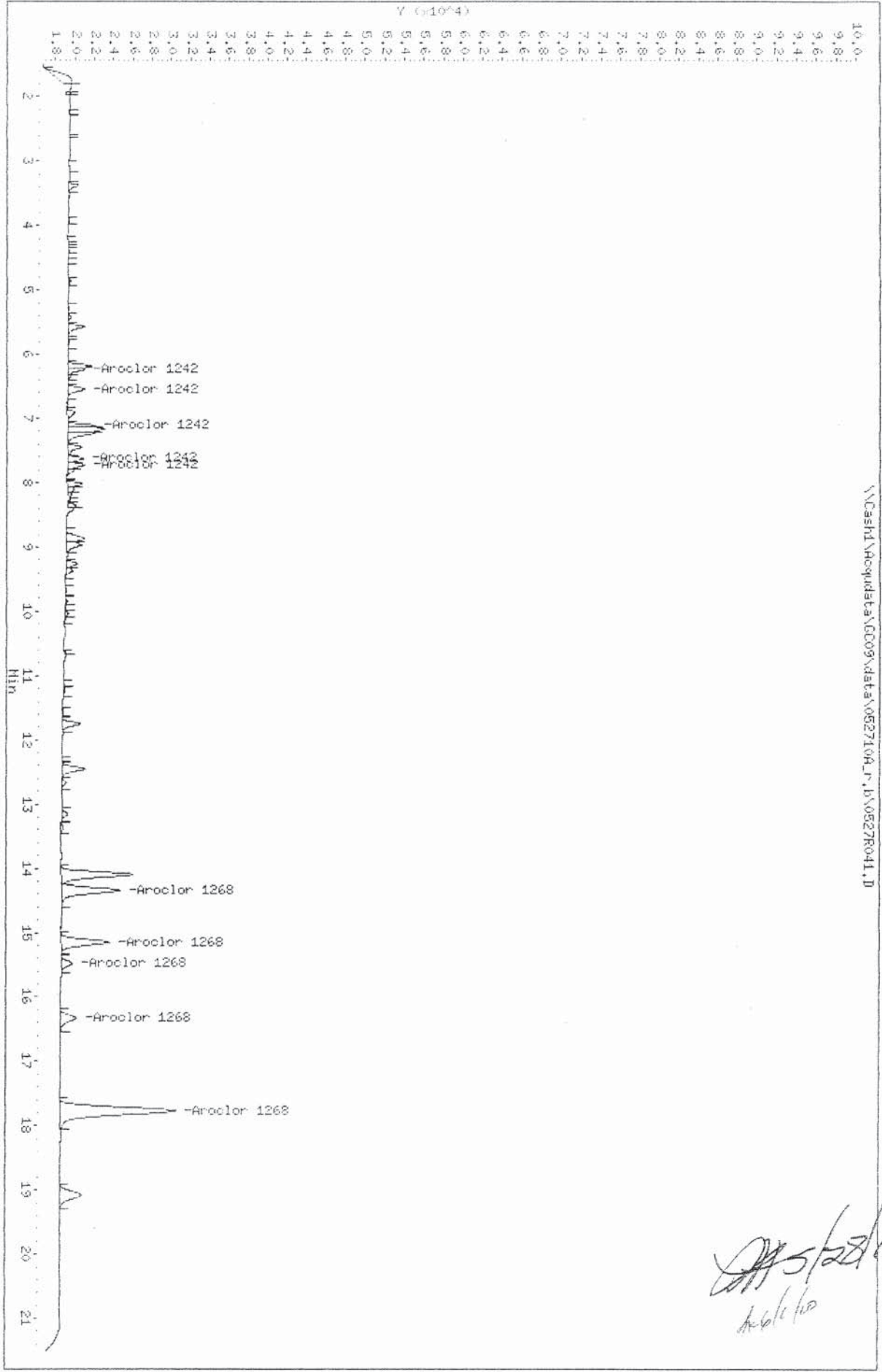
Handwritten signature and date:
5/28/10
LHarris



Data File: \\CASH1\Acquidata\0009\data\052710A.LR.B\0527R041.D
Date: 28-Mar-2010 08:09
Client ID:
Sample Info: 1242/1268 @ 50ppb | PCB5-620
Column Phase: DB-5LB

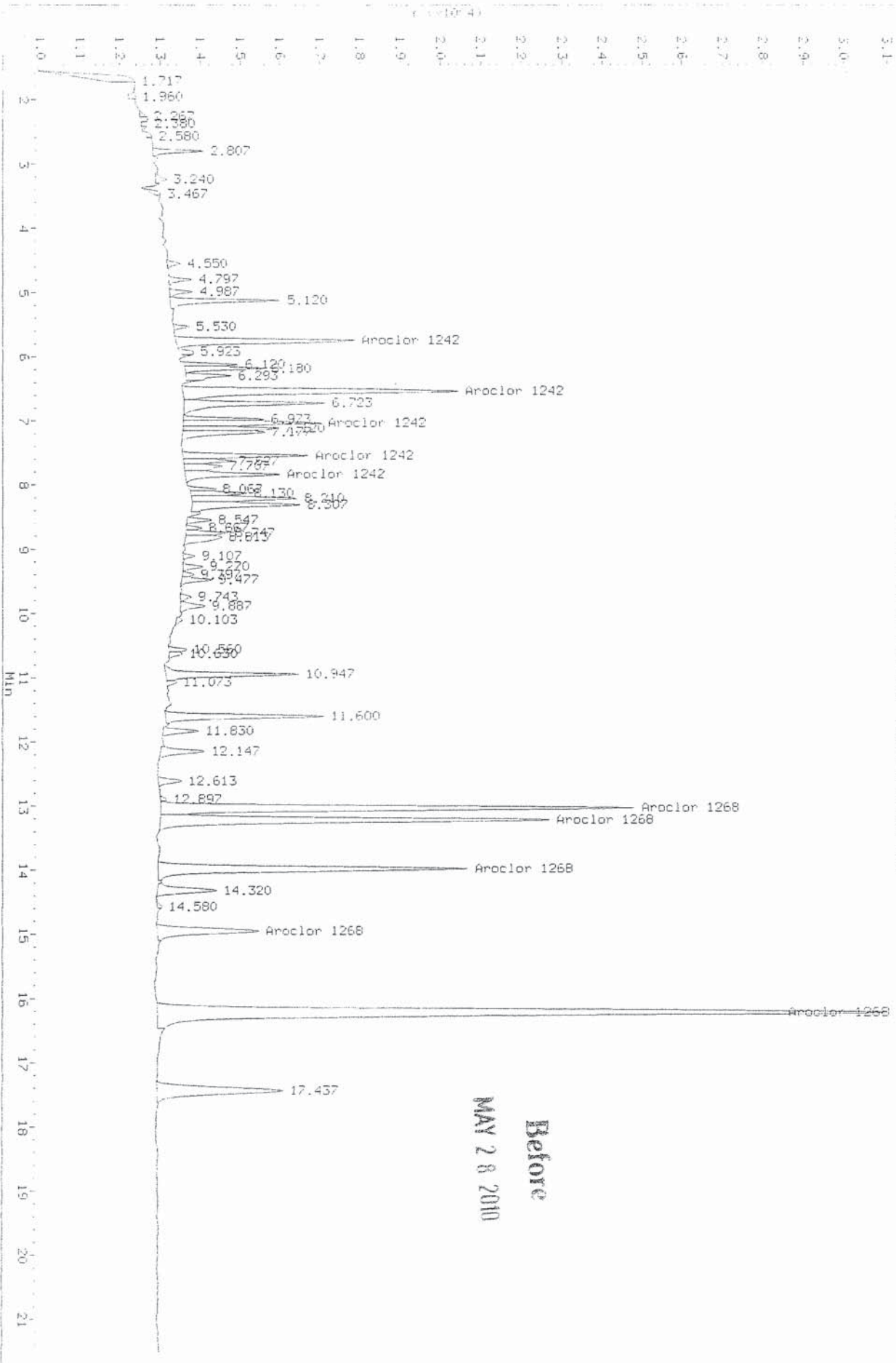
Instrument: 0009.1
Operator: LHarris
Column diameter: 0.53

\\CASH1\Acquidata\0009\data\052710A.LR.B\0527R041.D



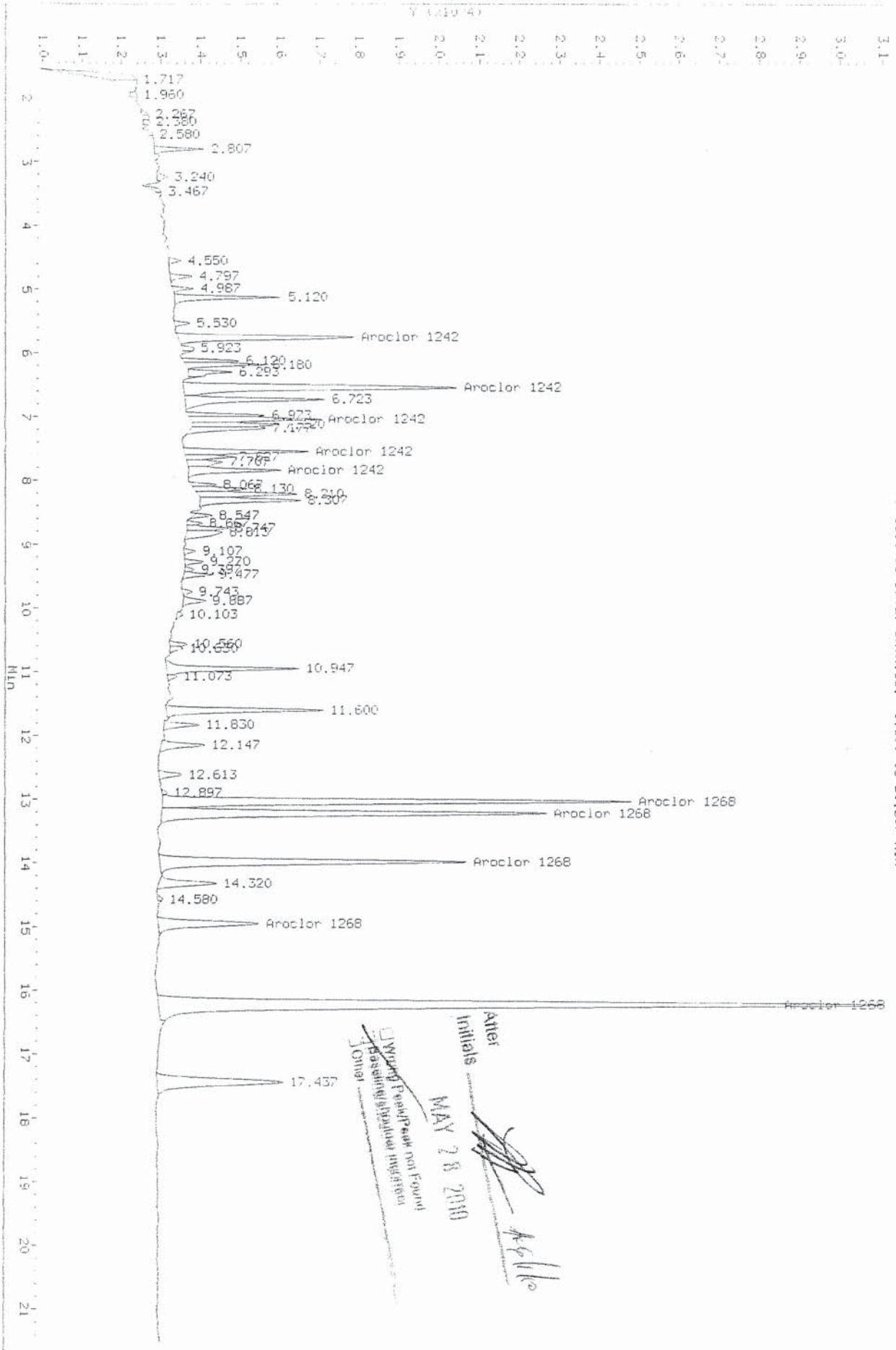
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Injection Date: 28-May-2010 08:09
Injection Volume: 0.019 L
Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.507 Min



Before
MAY 28 2010

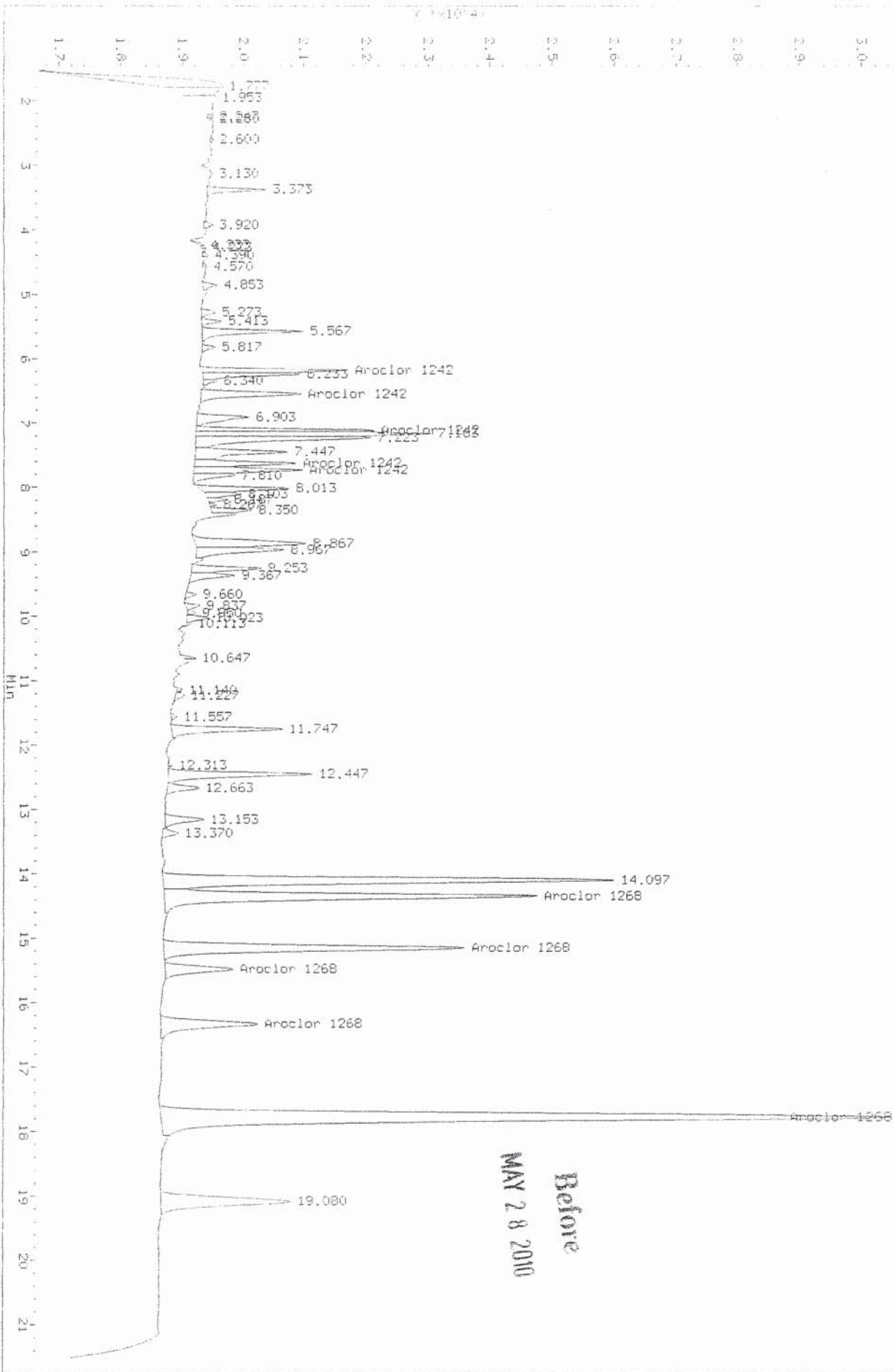
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 Injection Date: 29-May-2010 08:09
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data: DATA.GC: 1.500 to 21.507 MIN

Data File: \Vdash1\Acq\data\GC09\data\052710A.LP.D\0527R041.D
 Injection Date: 28-May-2010 08:09
 Instrument: GC09.1
 Client Sample ID:

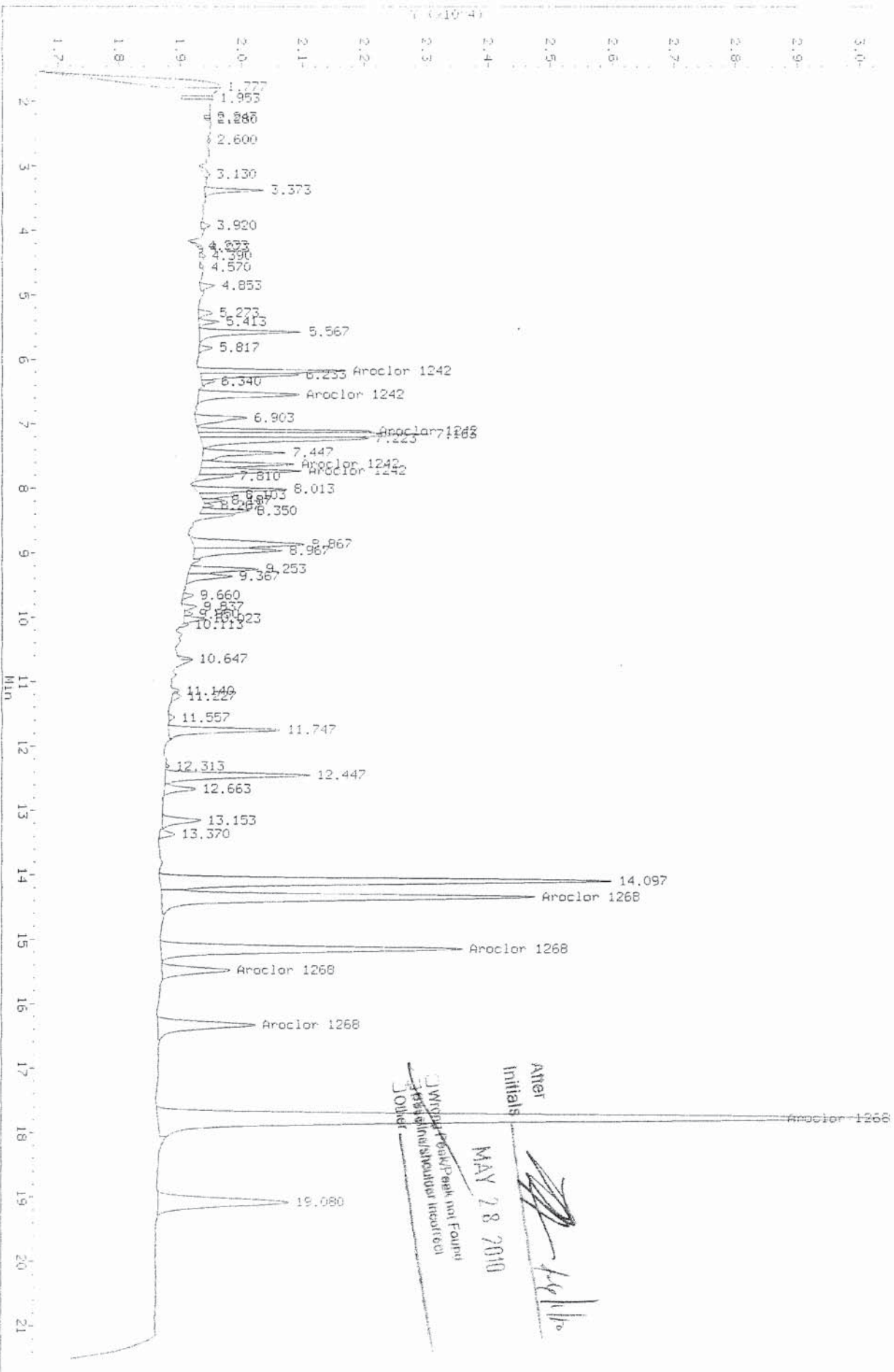
HP5890 GC Data, DATA.GC: 1.500 to 21.507 Min



Before
 MAY 28 2010

Data File: \\Cash\Acqudata\GC09\data\052710A.r\n\0527R041.D
 Injection Date: 29-May-2010 09:09
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.507 Min



Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F042.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R042.D
 Inj Date : 28-MAY-2010 08:35
 Sample Info: 1242/1268 @ 500ppb | PCB5-52R
 Misc Info :
 Cal Date : 28-MAY-2010 13:56
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1242+1268.sub
 Sub List #2 : 1242+1268.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

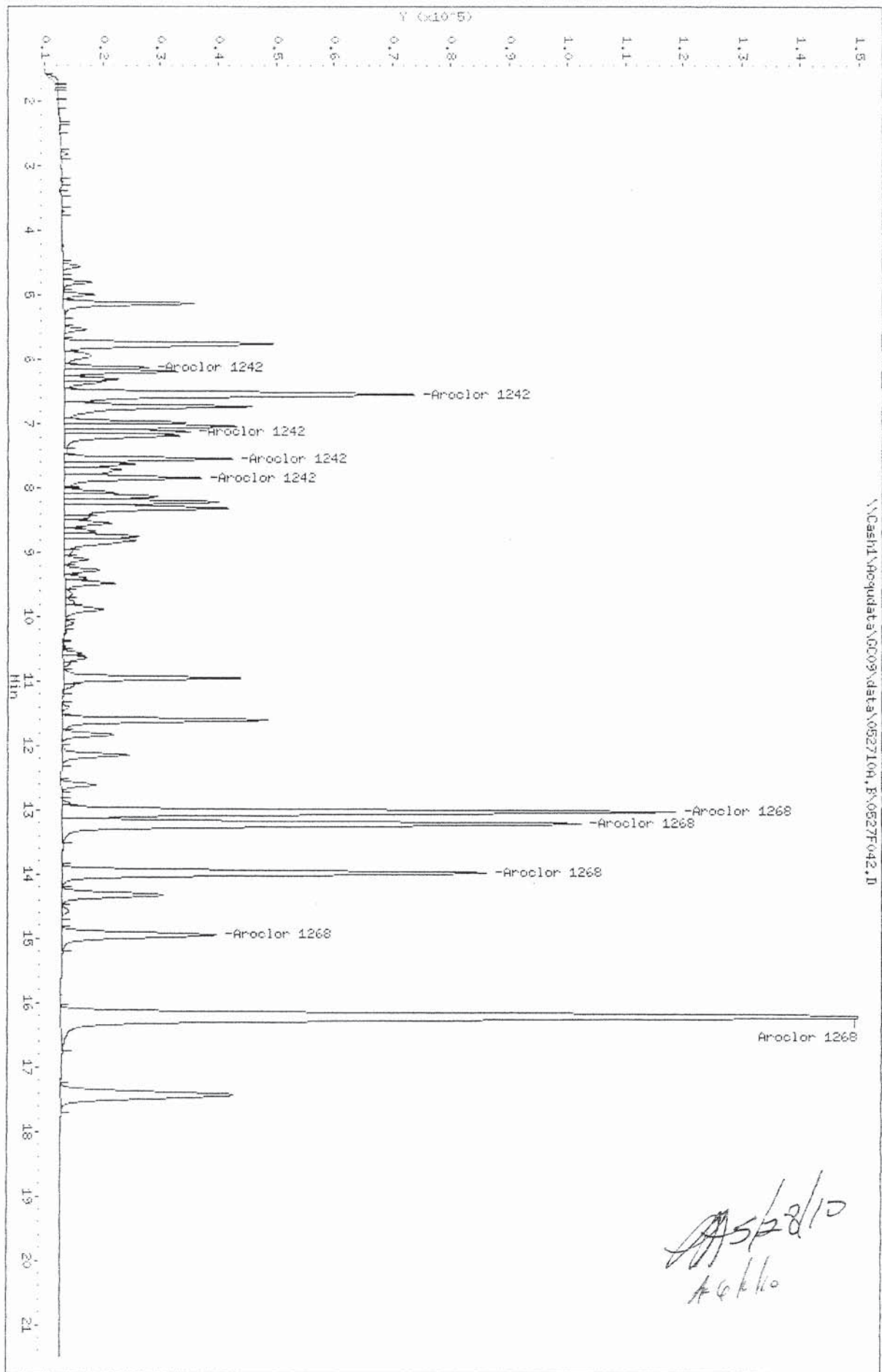
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
=====								
Aroclor 1242	6.120	6.233	42663	60675	243	522	80.00- 120.00	100.00
	6.540	6.543	327749	86798	528	551	727.90-1091.85	768.22
	7.120	7.113	76765	70268	458	515	150.61- 225.91	179.93
	7.540	7.623	106545	65072	538	581	230.50- 345.75	249.74
	7.837	7.727	105831	75230	568	582	198.70- 298.04	248.06
	Average of Peak Amounts =				467	550		
Aroclor 1268	13.027	14.343	530418	411997	524	536	80.00- 120.00	100.00
	13.213	15.147	496919	321936	532	530	70.89- 106.33	93.68
	13.977	15.477	396320	86145	526	535	58.04- 87.06	74.72
	14.947	16.327	166509	130918	539	523	20.96- 31.43	31.39
	16.213	17.770	1118039	966060	523	532	172.26- 258.39	210.78
	Average of Peak Amounts =				529	531		

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Data File: \\CASH1\Apoqudata\GC09\data\0527104.B\0527F042.D
Date: 28-NOV-2010 08:35
Client ID:
Sample Info: 1242/1268 @ 500ppb | PCB5-52R
Column Phase: DB-30MS

Instrument: GC09.i
Operator: LHarris
Column diameter: 0.53

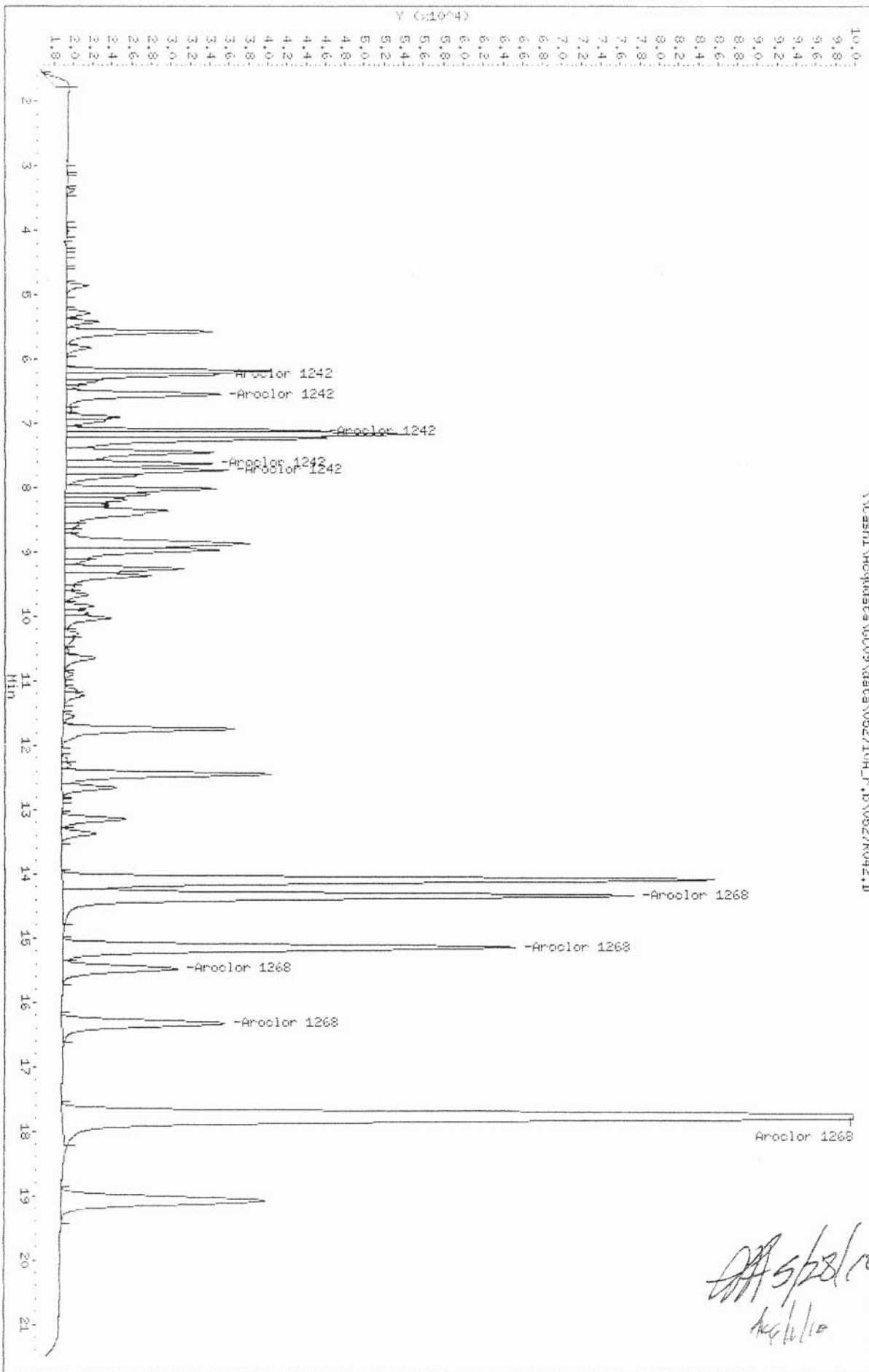
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Date: 28-May-2010 08:35
Client ID:
Sample Info: 1242/1268 @ Scoop# 1 PCB5-52R
Column phase: DB-ALB

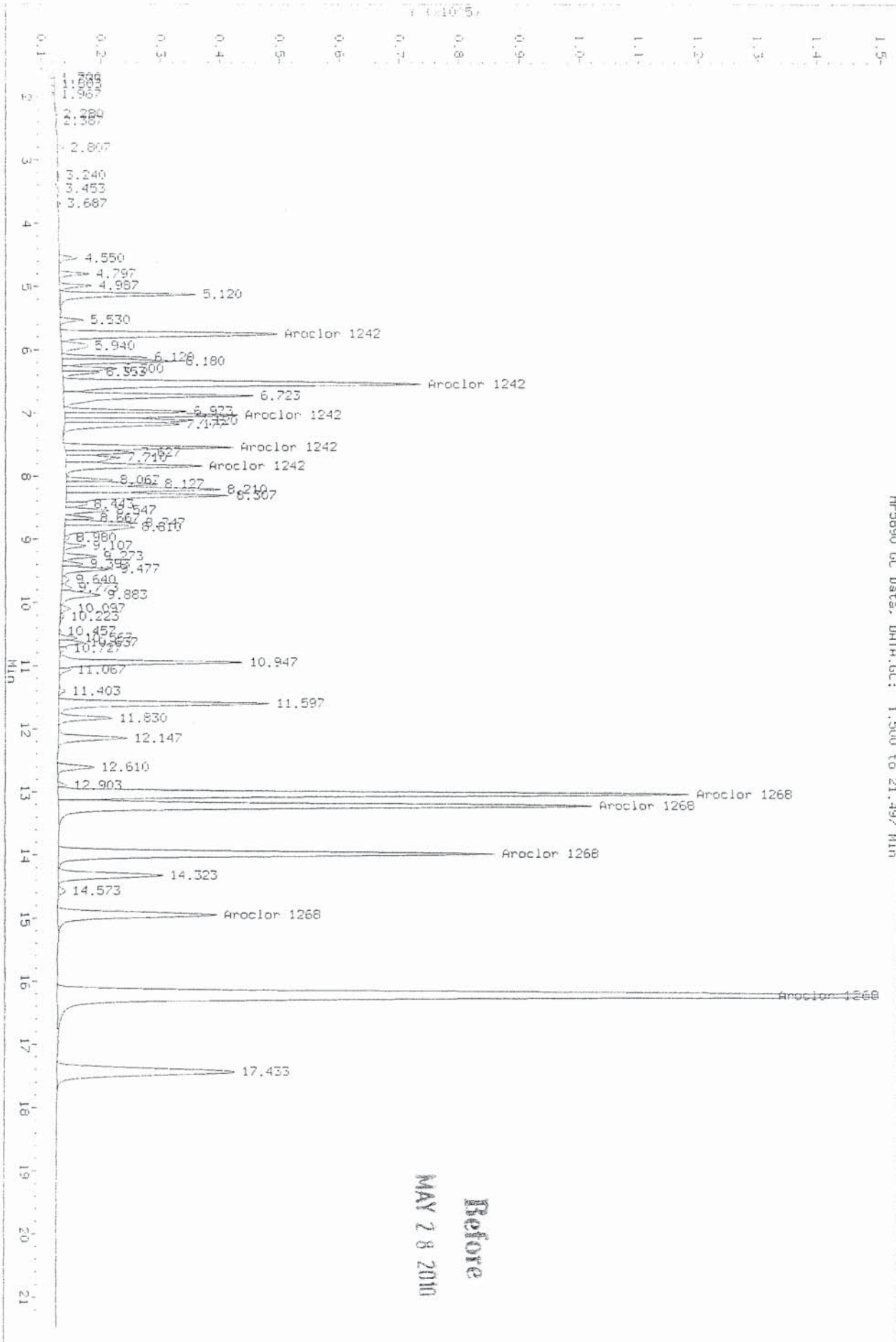
Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

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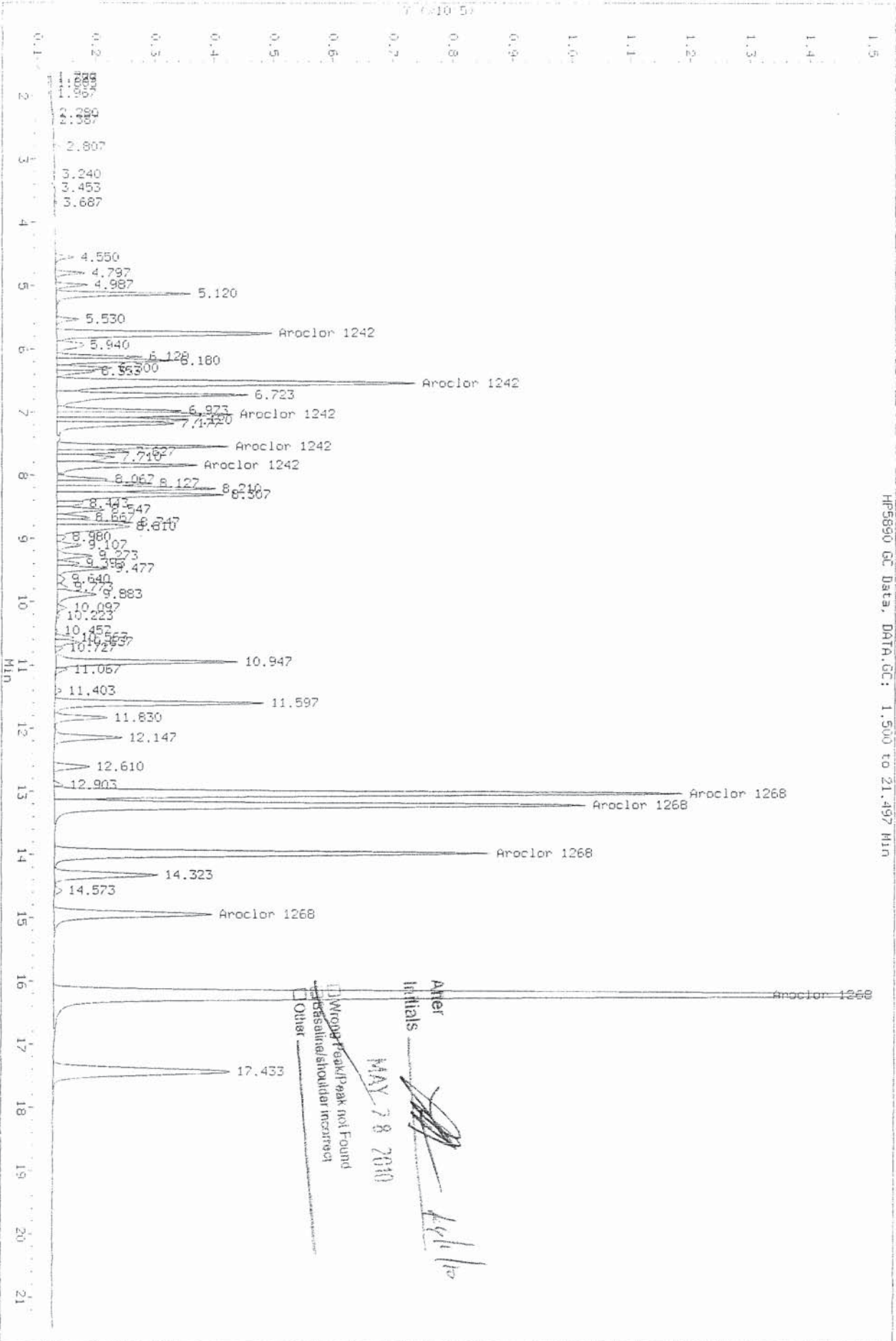
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 Injection Date: 28-May-2010 08:35
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.497 Min



Before
 MAY 28 2010

Data File: \\C:\ashl\hgc\data\GC09\data\052710A.B\0527F042.D
 Injection Date: 28-May-2010 08:35
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.497 Min

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F043.D
Report Date: 28-May-2010 17:30

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F043.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R043.D
Inj Date : 28-MAY-2010 09:01
Sample Info: 1242/1268 @ 1000ppb | PCB5-52S
Misc Info :
Cal Date : 28-MAY-2010 13:56
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

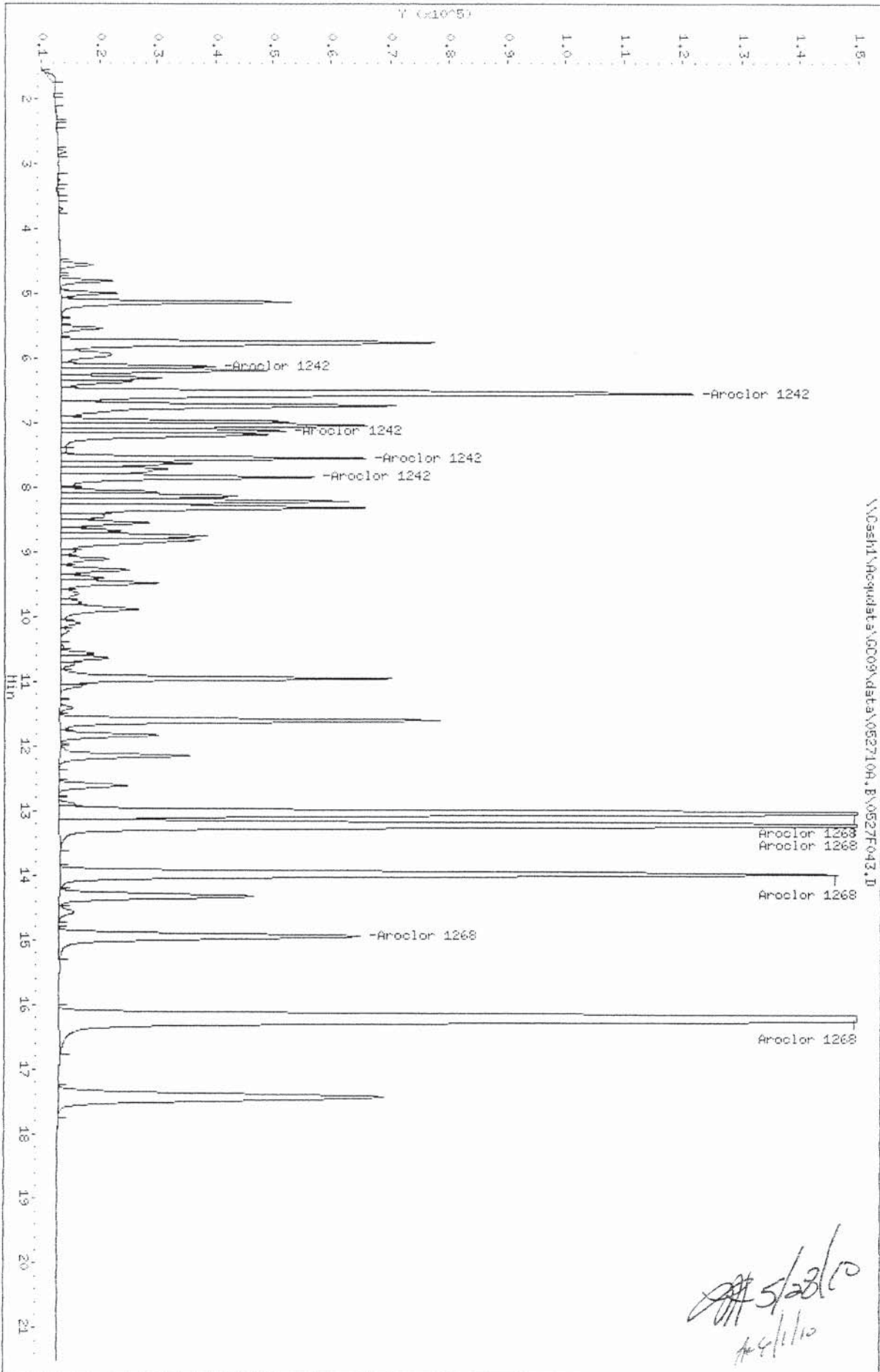
Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : 1242+1268.sub
Sub List #2 : 1242+1268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	6.120	6.230	77031	114906	563	1020	80.00- 120.00	100.00
	6.540	6.543	583632	164054	940	1020	727.90-1091.85	757.66
	7.117	7.110	136697	134281	880	984	150.61- 225.91	177.46
	7.540	7.623	192418	118806	971	1060	230.50- 345.75	249.79
	7.837	7.727	191352	139765	1030	1080	198.70- 298.04	248.41
			Average of Peak Amounts =		877	1030		
Aroclor 1268	13.027	14.343	970655	772430	958	1000	80.00- 120.00	100.00
	13.213	15.150	913928	606755	979	999	70.89- 106.33	94.16
	13.977	15.480	730324	166699	969	1030	58.04- 87.06	75.24
	14.943	16.327	321406	256412	1040	1020	20.96- 31.43	33.11
	16.210	17.770	2018454	1782067	944	981	172.26- 258.39	207.95
			Average of Peak Amounts =		978	1010		

Handwritten signature and date:
5/28/10
A. Harris

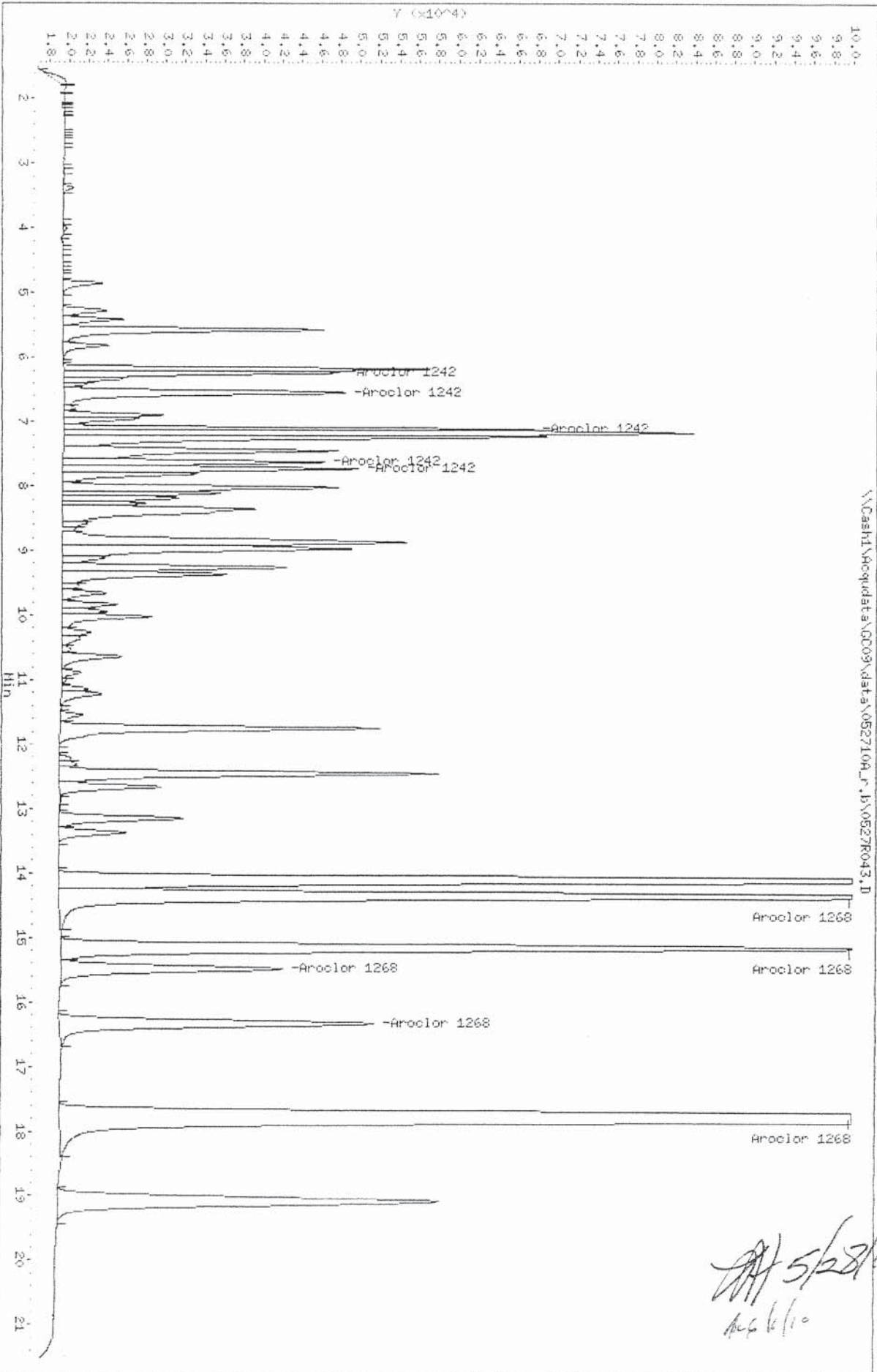
Data File: \GCash\Report\data\GC09\data\052710H.B\0527F043.D
Date: 28-Mar-2010 09:01
Client ID:
Sample Info: 1242/1268 @ 1000ppb | PCBs-628
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

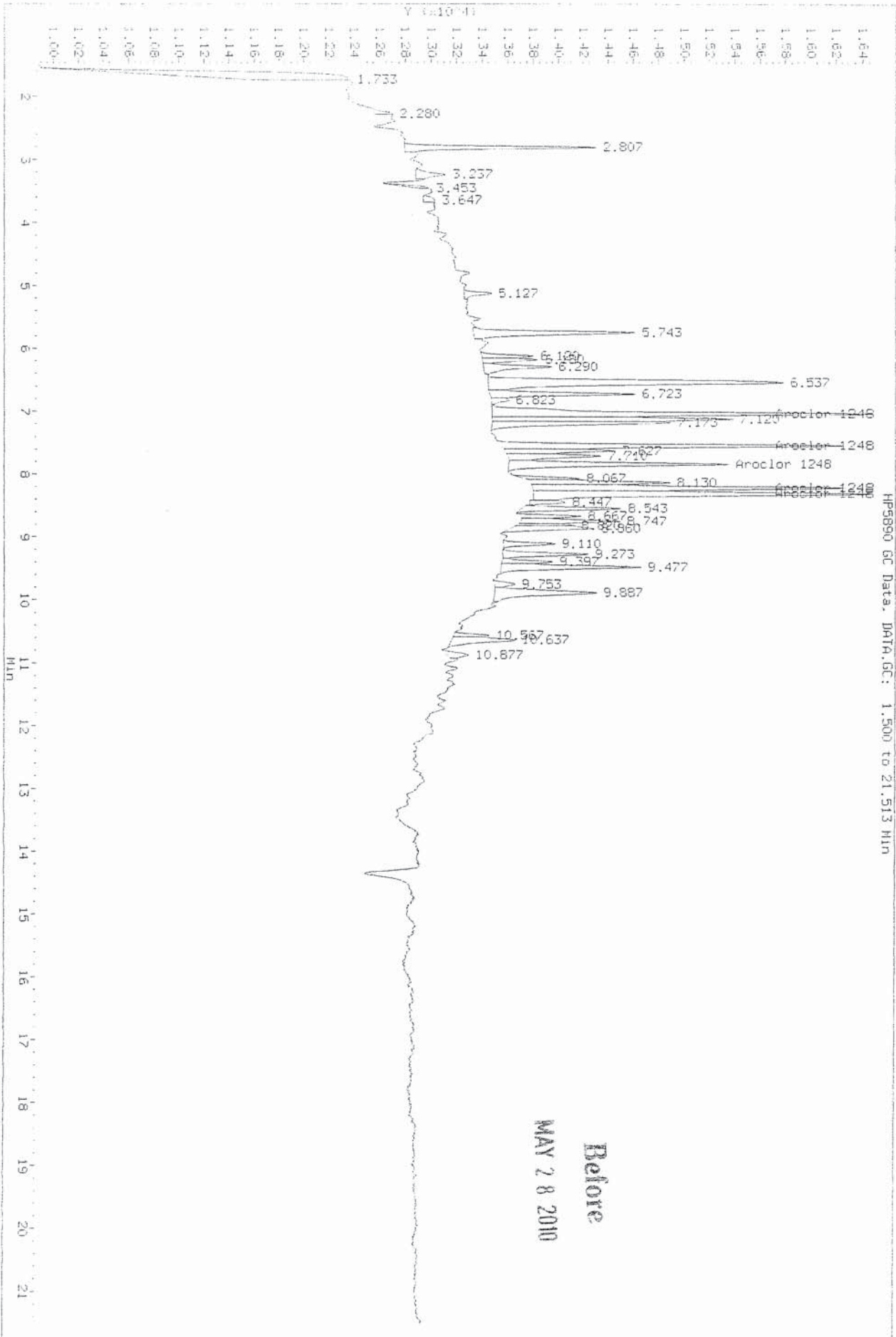


Data File: \\CASH1\Acq\data\0009\data\052710A_r.j\0527R043.D
Date: 28-May-2010 09:01
Client ID:
Sample Info: 1242/1268 @ 1000ppb | PCB8-528
Column Phase: DB-MLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Data File: \\Casht1\pegdata\GC09\data\052710A.B\0527F046.D
 Injection Date: 28-May-2010 10:19
 Instrument: GC09.1
 Client Sample ID:

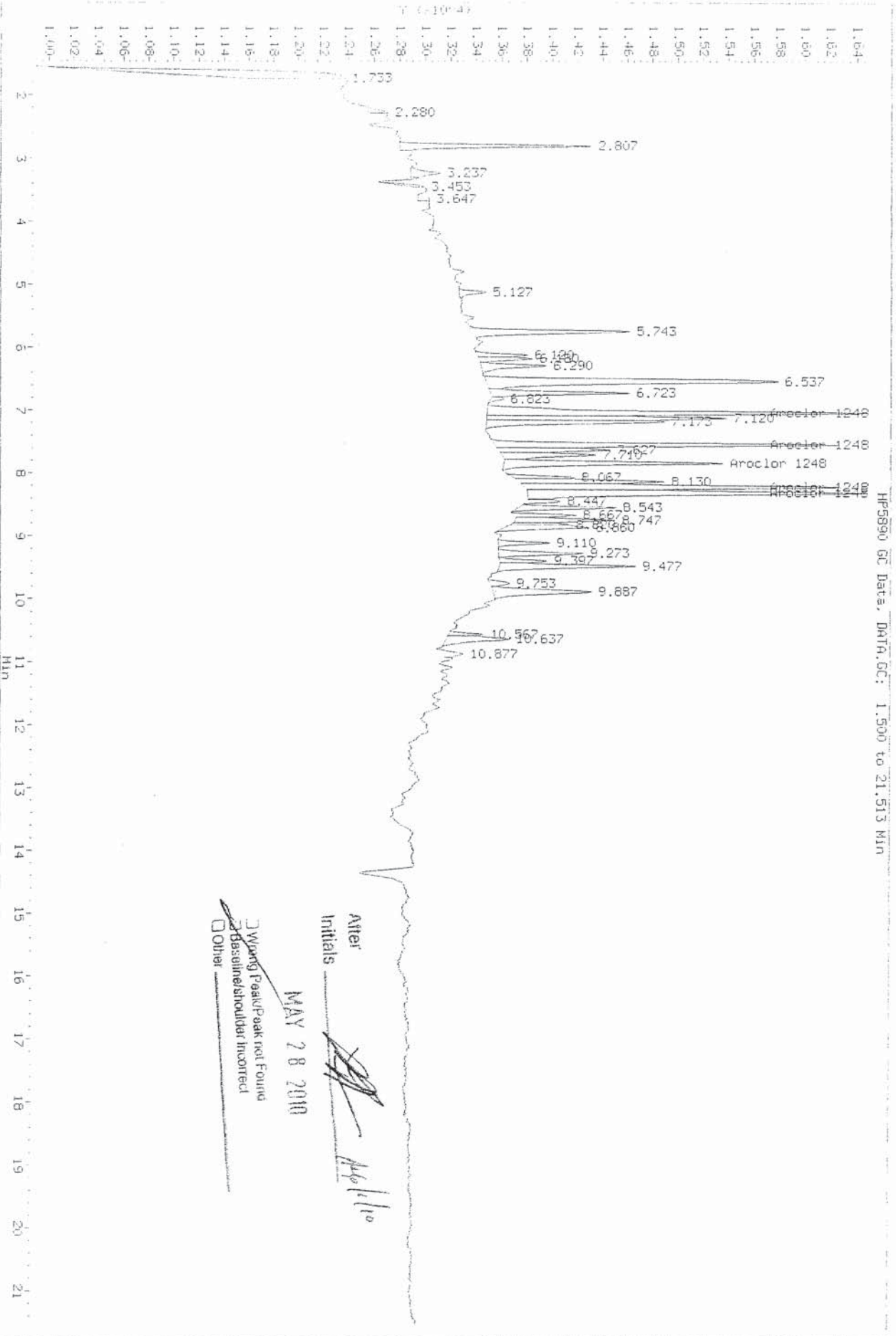


Before

MAY 28 2010

HP5890 GC Data, DATA.GC: 1.5000 to 21.513 MIN

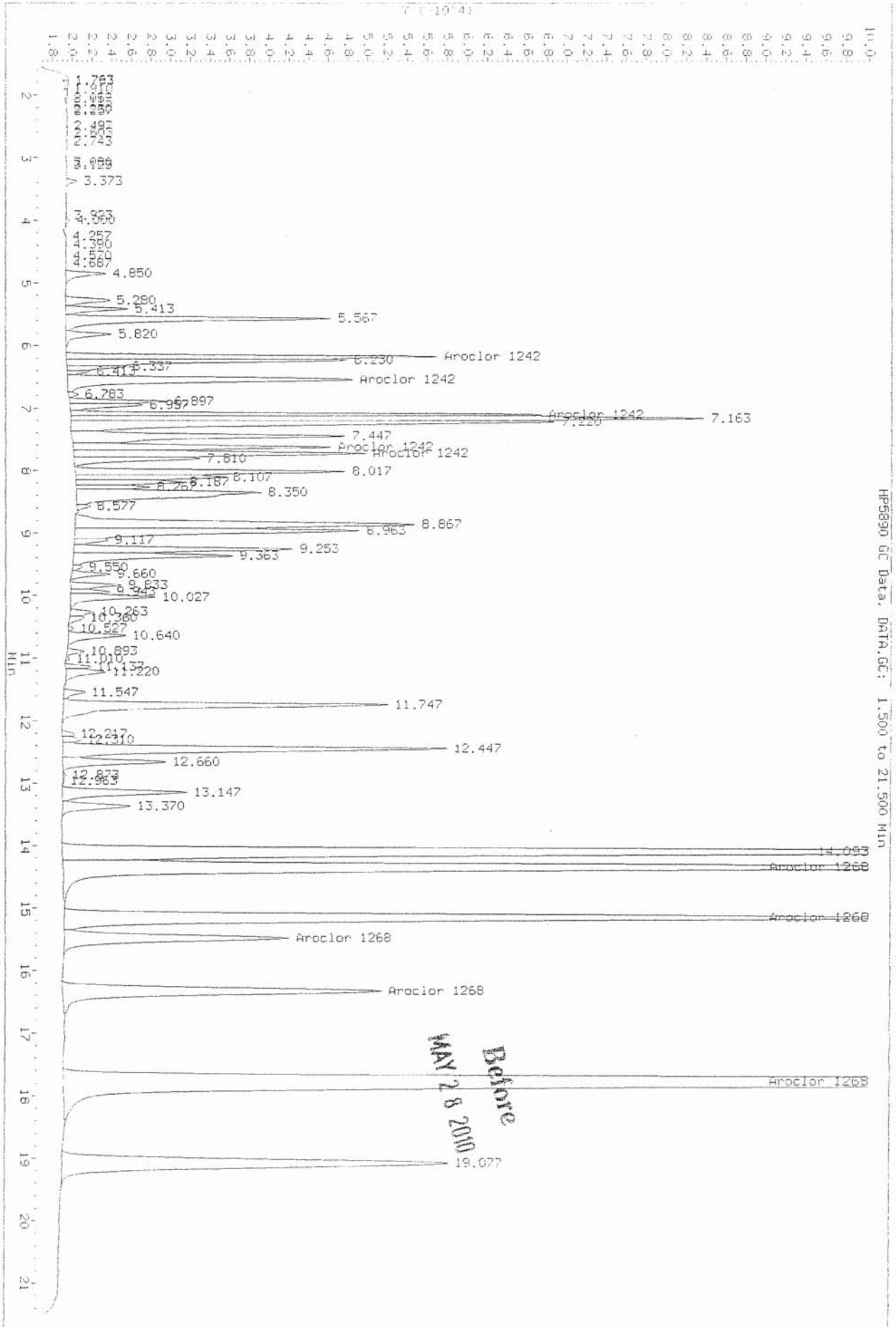
Data File: \\Caspl\baq\data\GC09\data\0527104.B\0527F046.D
 Injection Date: 28-May-2010 10:19
 Instrument: GC09.1
 Client Sample ID:

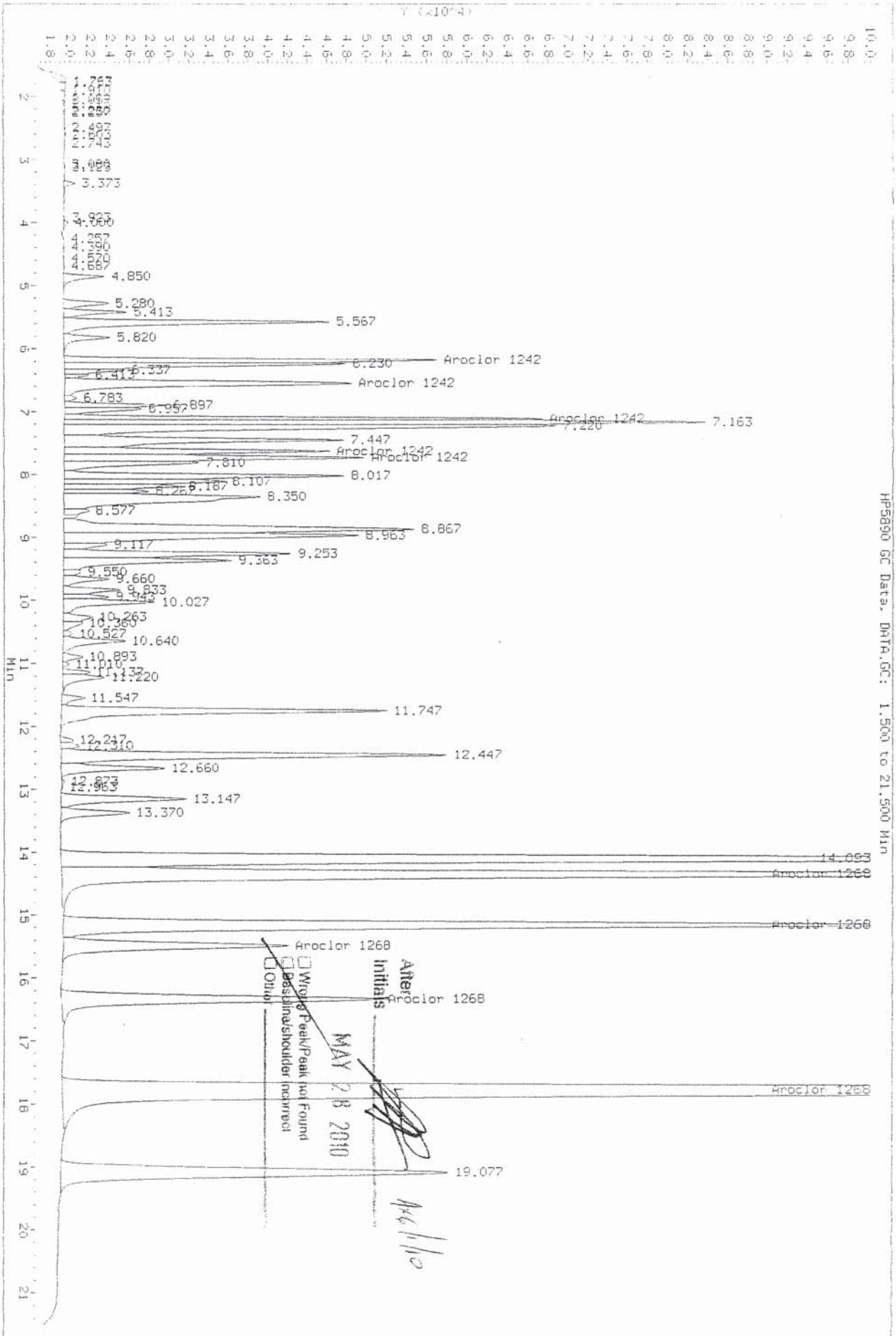


HP5890 GC Data, DATA.GC: 1.500 to 21.513 Min

Alter Initials [Signature]
 MAY 28 2010
 Wrong Peak
 Peak not Found
 Baseline/shoulder Incorrect
 Other _____

Data File: \\Cash1\acq\data\GC09\data\0527100_r_b\0527R043.D
 Injection Date: 28-May-2010 09:01
 Instrument: GC09.1
 Client Sample ID:





Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F044.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R044.D
 Inj Date : 28-MAY-2010 09:27
 Sample Info: 1242/1268 @ 2000ppb | PCB5-52T
 Misc Info :
 Cal Date : 28-MAY-2010 13:56
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1242+1268.sub
 Sub List #2 : 1242+1268.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	6.120	6.230	142461	214001	1380	1940	80.00- 120.00	100.00
	6.540	6.543	1040414	306148	1680	1900	727.90-1091.85	730.31
	7.117	7.110	245200	242043	1690	1770	150.61- 225.91	172.12
	7.540	7.623	347926	211354	1760	1890	230.50- 345.75	244.23
	7.837	7.727	348197	250884	1870	1940	198.70- 298.04	244.42
	Average of Peak Amounts =				1680	1890		
Aroclor 1268	13.027	14.340	1769630	1436735	1750	1870	80.00- 120.00	100.00
	13.210	15.150	1673324	1132862	1790	1860	70.89- 106.33	94.56
	13.977	15.480	1342323	321903	1780	2000	58.04- 87.06	75.85
	14.943	16.330	608256	497952	1970	1990	20.96- 31.43	34.37
	16.210	17.770	3655383	3237262	1710	1780	172.26- 258.39	206.56
	Average of Peak Amounts =				1800	1900		

Handwritten signature and date: 5/28/10

Data File: \\Cashd\Acq\data\GC09\data\0527109.B\0527F044.D

Date: 28-May-2010 09:27

Client ID:

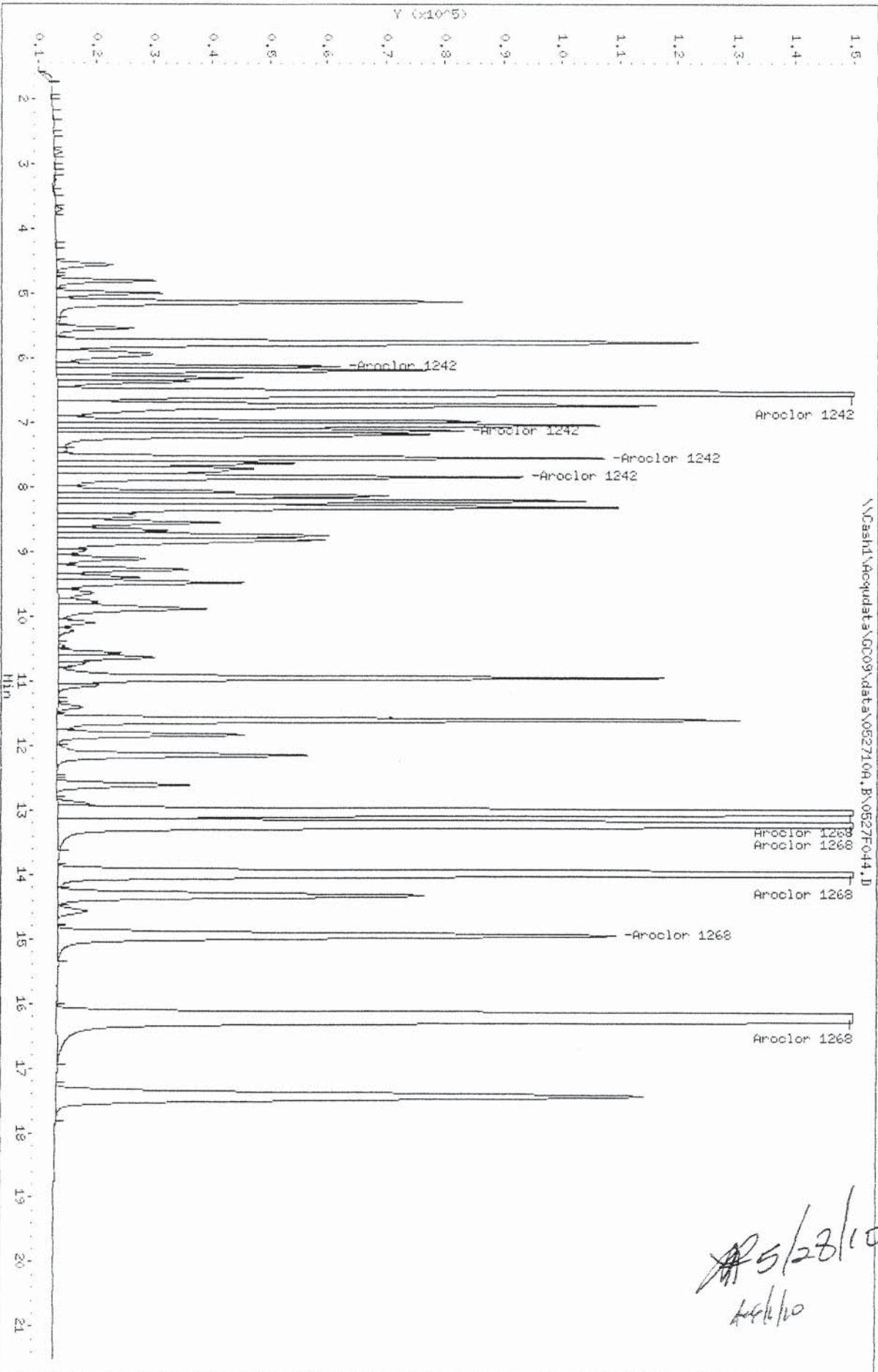
Sample Info: 1242/1268 @ 2000ppb | PCBs-621

Column phase: DB-35MS

Instrument: GC09.1

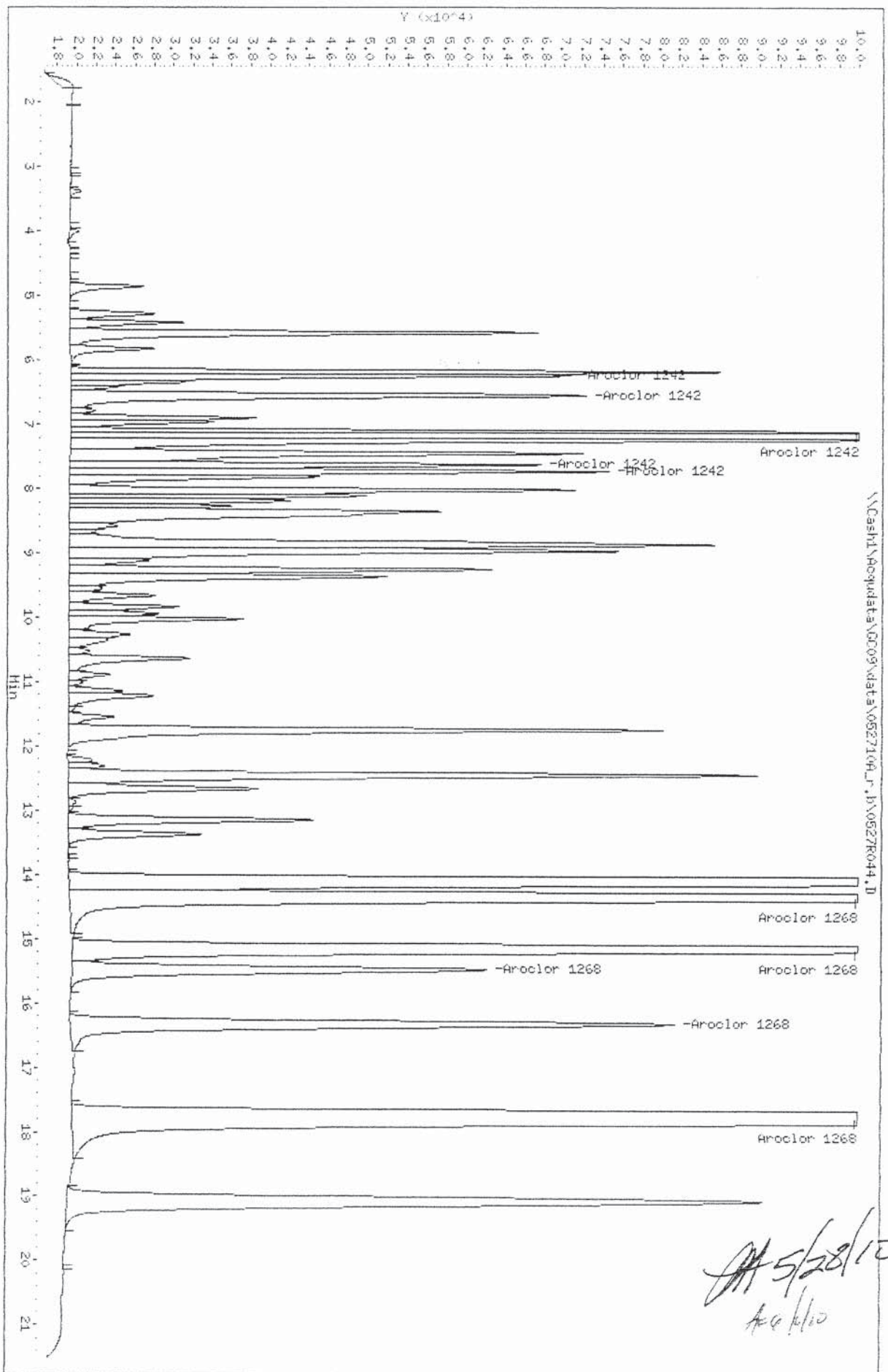
Operator: LHarris

Column diameter: 0.53



Data File: \\CASHI\Acq\data\0009\data\0527109_r_b\0527R044.D
Date: 28-May-2010 09:27
Client ID:
Sample Info: 1242/1268 @ 2000ppb | PCB5-521
Column phase: DB-MLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F045.D
 Report Date: 28-May-2010 17:30

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F045.D
 Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R045.D
 Inj Date : 28-MAY-2010 09:53
 Sample Info: 1242/1268 @ 5000ppb | PCB5-53A
 Misc Info :
 Cal Date : 28-MAY-2010 13:56
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

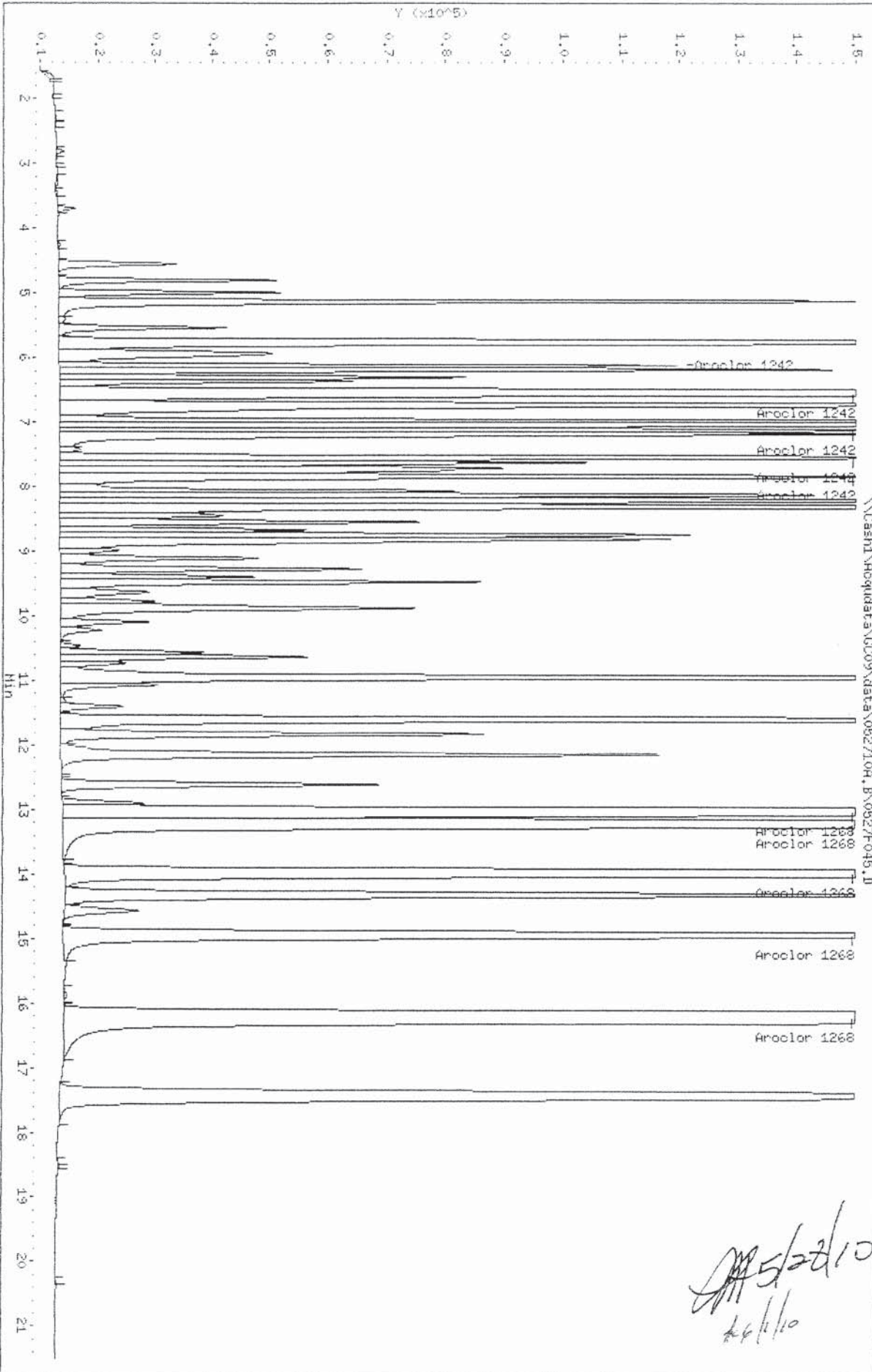
Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
 Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
 Sub List #1 : 1242+1268.sub
 Sub List #2 : 1242+1268.sub
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	6.120	6.230	306390	472202	4000	4310	80.00- 120.00	100.00
	6.540	6.547	2176586	681089	3500	4230	727.90-1091.85	710.40
	7.120	7.110	522070	530644	3820	3890	150.61- 225.91	170.39
	7.540	7.623	743958	457086	3760	4080	230.50- 345.75	242.81
	7.837	7.727	751231	550847	4030	4260	198.70- 298.04	245.19
	Average of Peak Amounts =				3820	4150		
Aroclor 1268	13.027	14.340	3909122	3239299	3860	4220	80.00- 120.00	100.00
	13.210	15.150	3716596	2582867	3980	4250	70.89- 106.33	95.07
	13.977	15.480	2983479	757129	3960	4700	58.04- 87.06	76.32
	14.943	16.327	1395840	1181726	4520	4720	20.96- 31.43	35.71
	16.213	17.770	7966697	7114555	3730	3920	172.26- 258.39	203.80
	Average of Peak Amounts =				4010	4360		

Handwritten signature and date:
 5/28/10
 de 6/6/10

Data File: \\Cashd\Apoquidata\0009\data\0527109.B\0527F045.D
Date: 28-May-2010 09:53
Client ID:
Sample Info: 1242/1268 @ 5000ppb | PCB5-534
Column phase: DB-35MS

Instrument: 0009.1
Operator: LHarris
Column diameter: 0.53



Data File: \\CASH1\Acquidat\0009\data\052710A_r.j\0527R045.D

Date: 28-MAY-2010 09:53

Client ID:

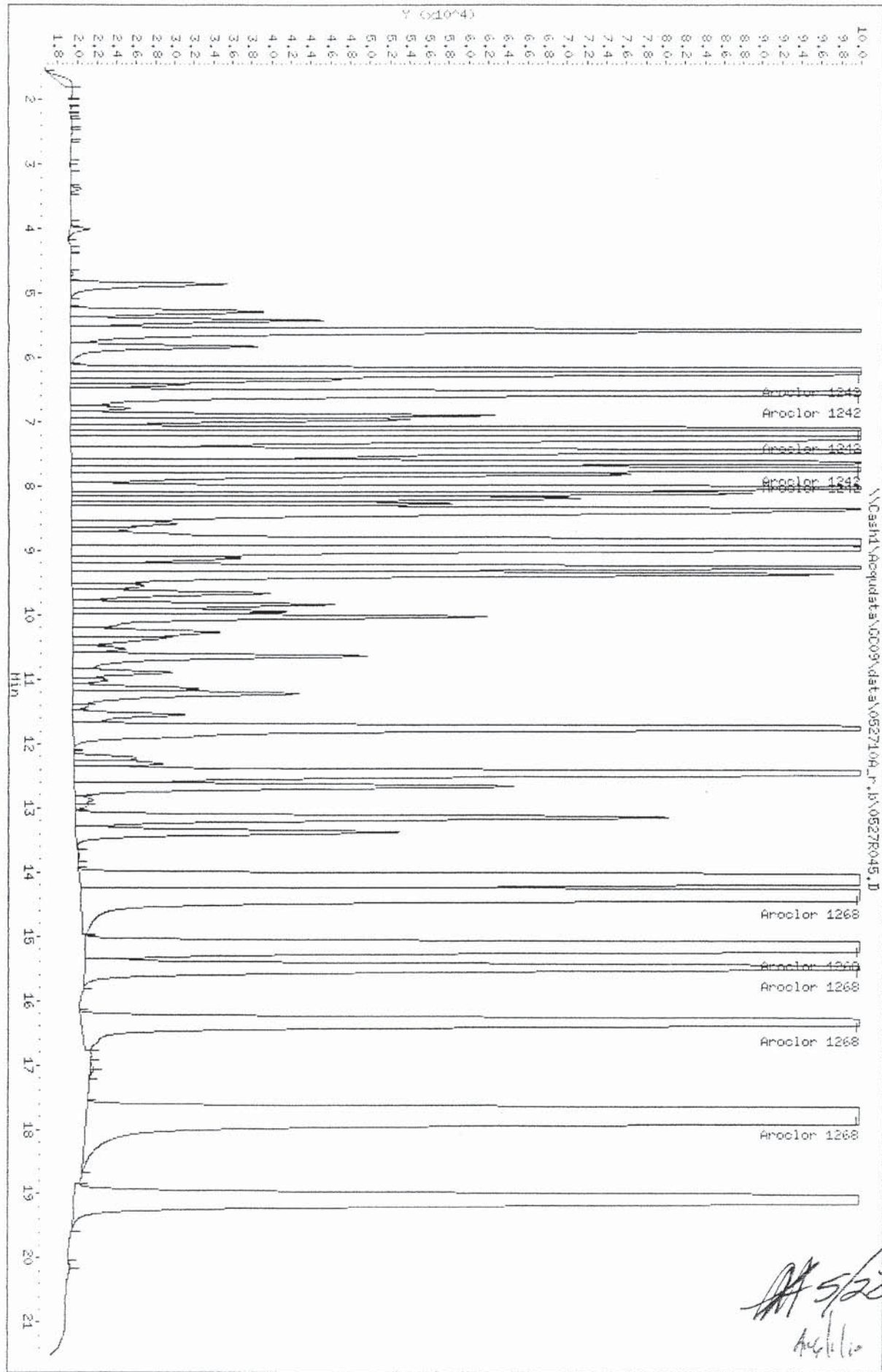
Sample Info: 1242/1268 @ 5000ppb 1 PCB9-53A

Column phase: DB-XLB

Instrument: 0009.i

Operator: LHarris

Column diameter: 0.53



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F046.D
Report Date: 28-May-2010 17:30

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F046.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R046.D
Inj Date : 28-MAY-2010 10:19
Sample Info: 1248 @ 25ppb | PCB5-53B
Misc Info :
Cal Date : 28-MAY-2010 14:04
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1248.SUB
Sub List #2 : AR1248.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	6.537	7.623	12314	5847	29.8	30.1	80.00- 120.00	100.00 (M)
	7.173	7.727	5168	5459	24.6	28.3	39.24- 58.85	41.97 (M)
	7.837	8.017	6772	5490	27.0	28.2	43.38- 65.07	54.99 (M)
	8.210	8.867	9986	10389	28.7	27.4	66.78- 100.17	81.09 (M)
	8.307	8.967	11851	7209	27.9	26.2	84.10- 126.14	96.24 (M)
Average of Peak Amounts =					27.6	28.0		

QC Flag Legend

M - Compound response manually integrated.

Handwritten signature and date:
5/28/10
4/6/10

Data File: \\CASH1\Aocquidat\NDC09\data\0527104.B\0527F046.D

Date : 28-MAY-2010 10:19

Client ID:

Sample Info: 1248 @ 25ppb | PCB5-53B

Column Phase: DB-35MS

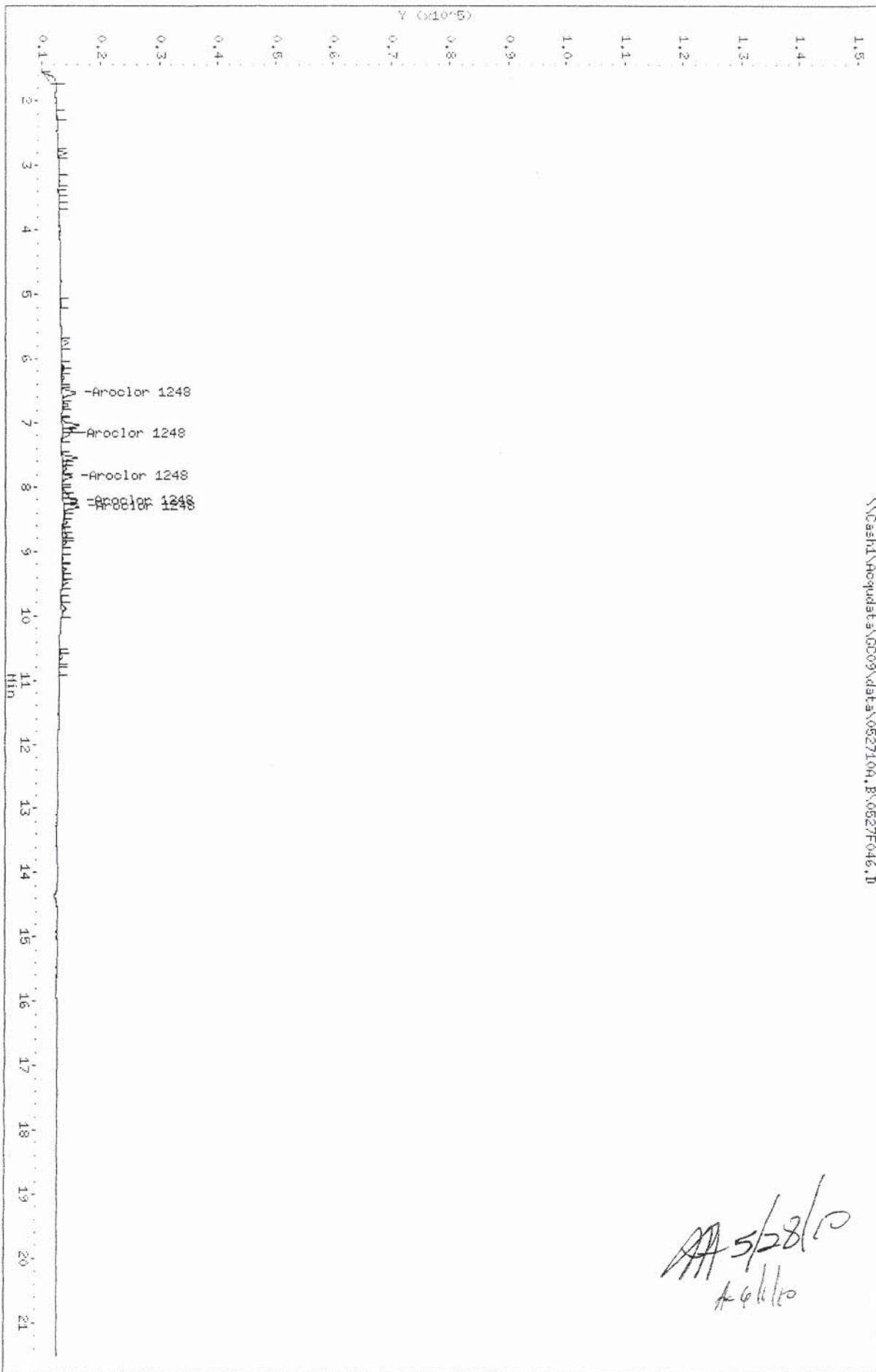
Instrument: GC09.1

Operator: LHarris

Column diameter: 0.53

\\CASH1\Aocquidat\NDC09\data\0527104.B\0527F046.D

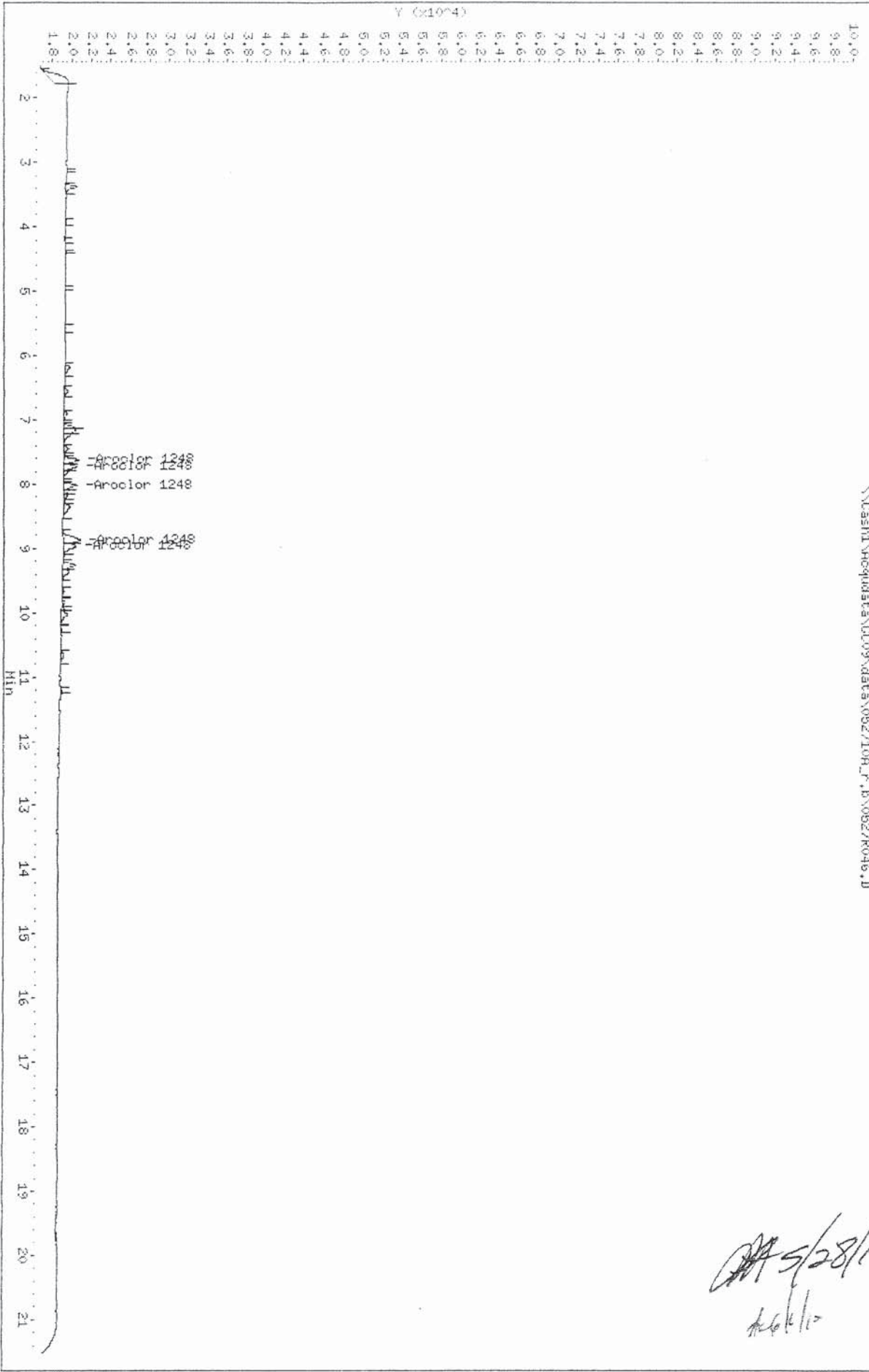
AA 5/28/10
K 6/1/10



Data File: \CASH1\Acqudata\0009\data\052710R_L.P\0527R046.D
 Date: 28-May-2010 10:19
 Client ID:
 Sample Info: 1248 @ 25ppb | PCB5-53B
 Column phase: DB-XLB

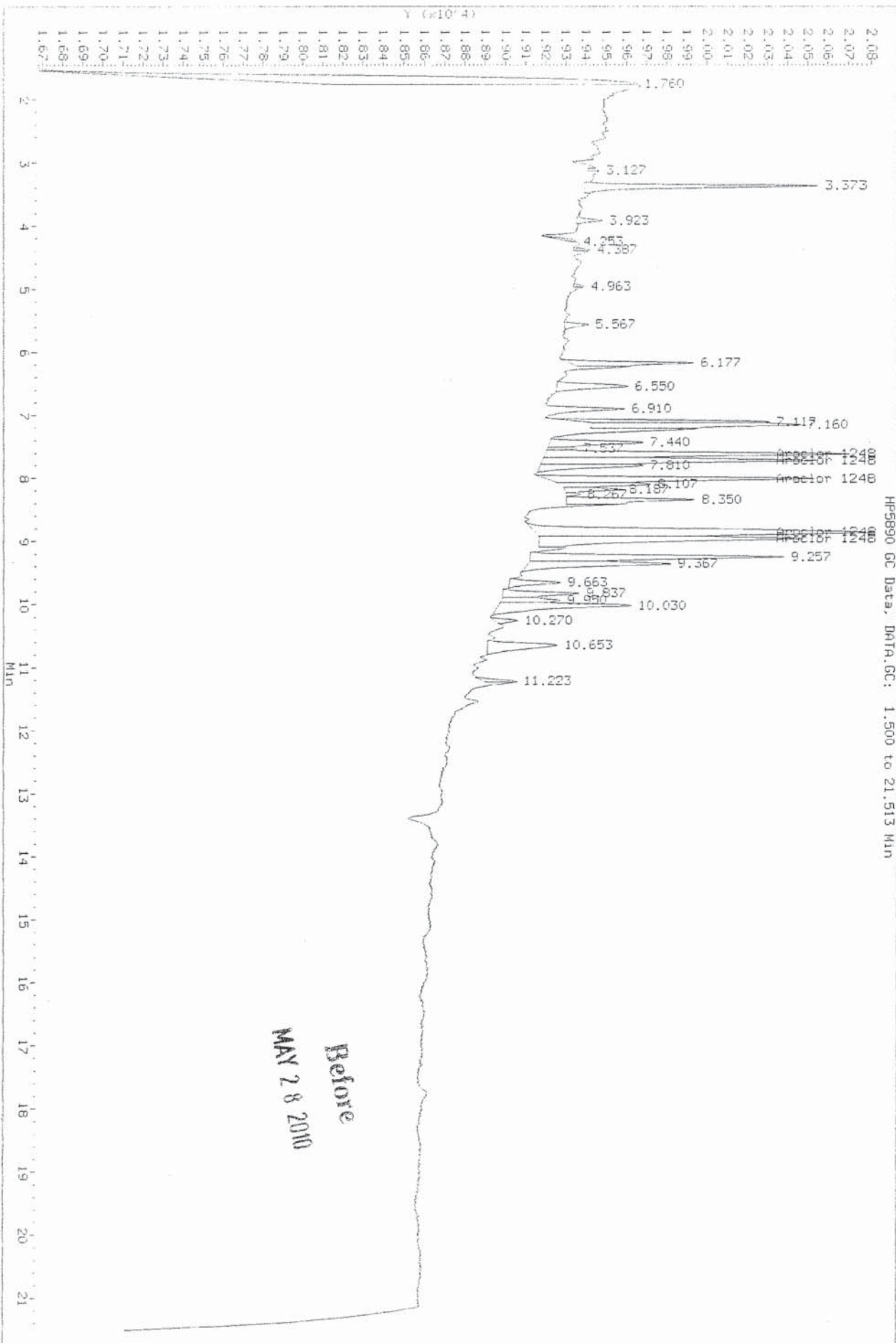
Instrument: GC09.i
 Operator: LHarris
 Column diameter: 0.53

\CASH1\Acqudata\0009\data\052710R_L.P\0527R046.D

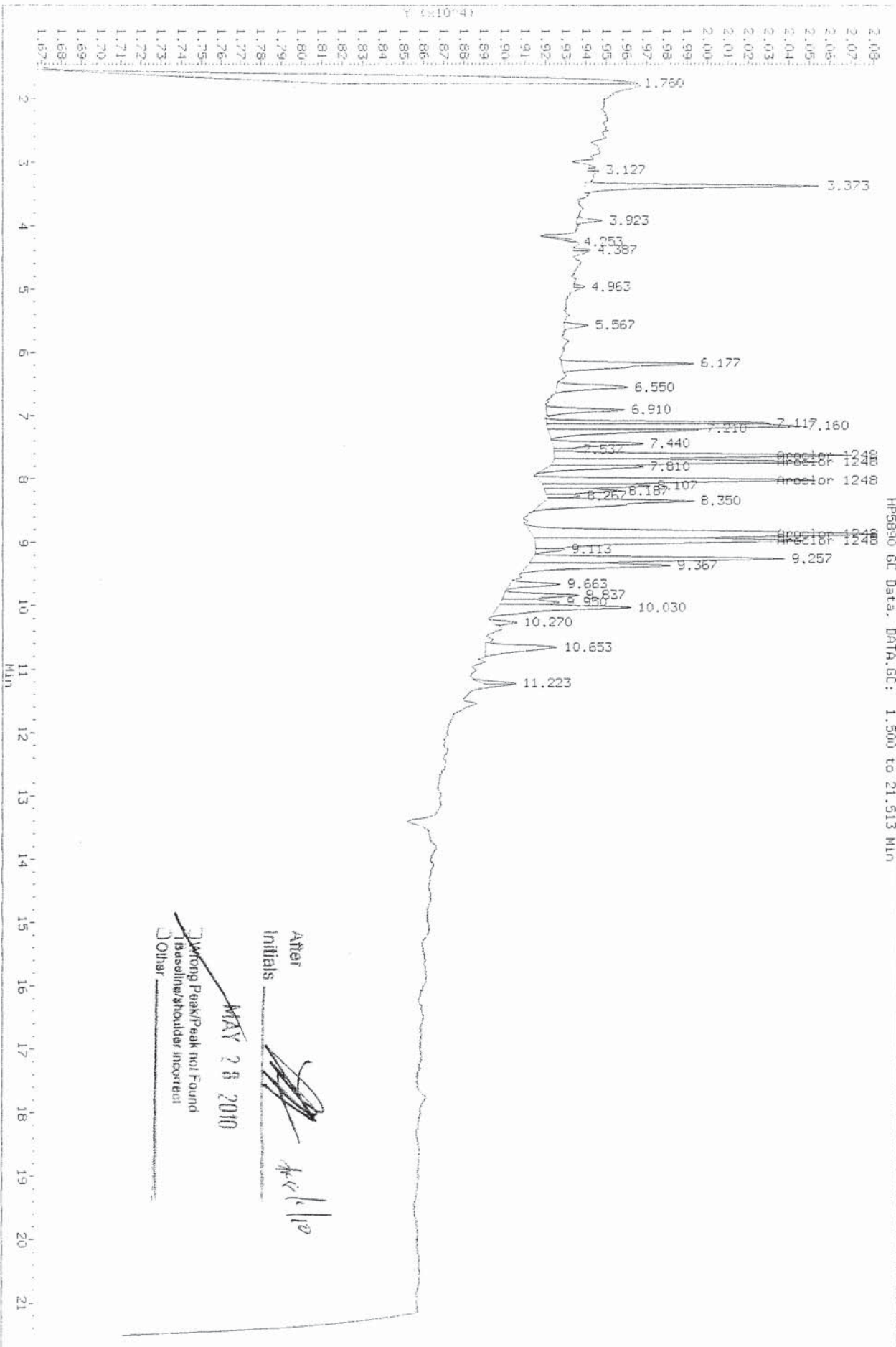


Handwritten signature and date:
 5/28/10
 [Signature]

Data File: \\Cash1\hqc\data\GC09\data\052710a_r_b\0527R046.D
 Injection Date: 26-May-2010 10:19
 Instrument: GC09.1
 Client Sample ID:



Data File: \\CASH1\acq\data\GC09\data\0527109_r.b\0527R046.D
 Injection Date: 28-May-2010 10:19
 Instrument: GC09.1
 Client Sample ID:



After _____
 Initials *[Signature]*
 MAY 28 2010
 Wrong Peak/Peak not Found
 Baseline/Shoulder incorrect
 Other _____

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F047.D
Report Date: 28-May-2010 17:30

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F047.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R047.D
Inj Date : 28-MAY-2010 10:45
Sample Info: 1248 @ 50ppb | PCB5-53C
Misc Info :
Cal Date : 28-MAY-2010 14:04
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1248.SUB
Sub List #2 : AR1248.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	6.537	7.623	24649	12105	59.8	60.7	80.00- 120.00	100.00 (M)
	7.177	7.727	12089	11359	57.6	57.4	39.24- 58.85	49.04 (M)
	7.837	8.017	13367	11236	53.2	56.3	43.38- 65.07	54.23 (M)
	8.210	8.867	20576	20900	59.2	55.2	66.78- 100.17	83.48 (M)
	8.303	8.967	25911	15312	61.1	55.9	64.10- 126.14	105.12 (M)
	Average of Peak Amounts =				58.2	57.1		

QC Flag Legend

M - Compound response manually integrated.

Handwritten signature and date:
5/28/10
LHarris

Data File: \\CASH1\Acqudata\0009\data\052710A.B\0527F047.D

Date: 28-May-2010 10:45

Client ID:

Sample Info: 1248 @ 50ppb | PCBs-53C

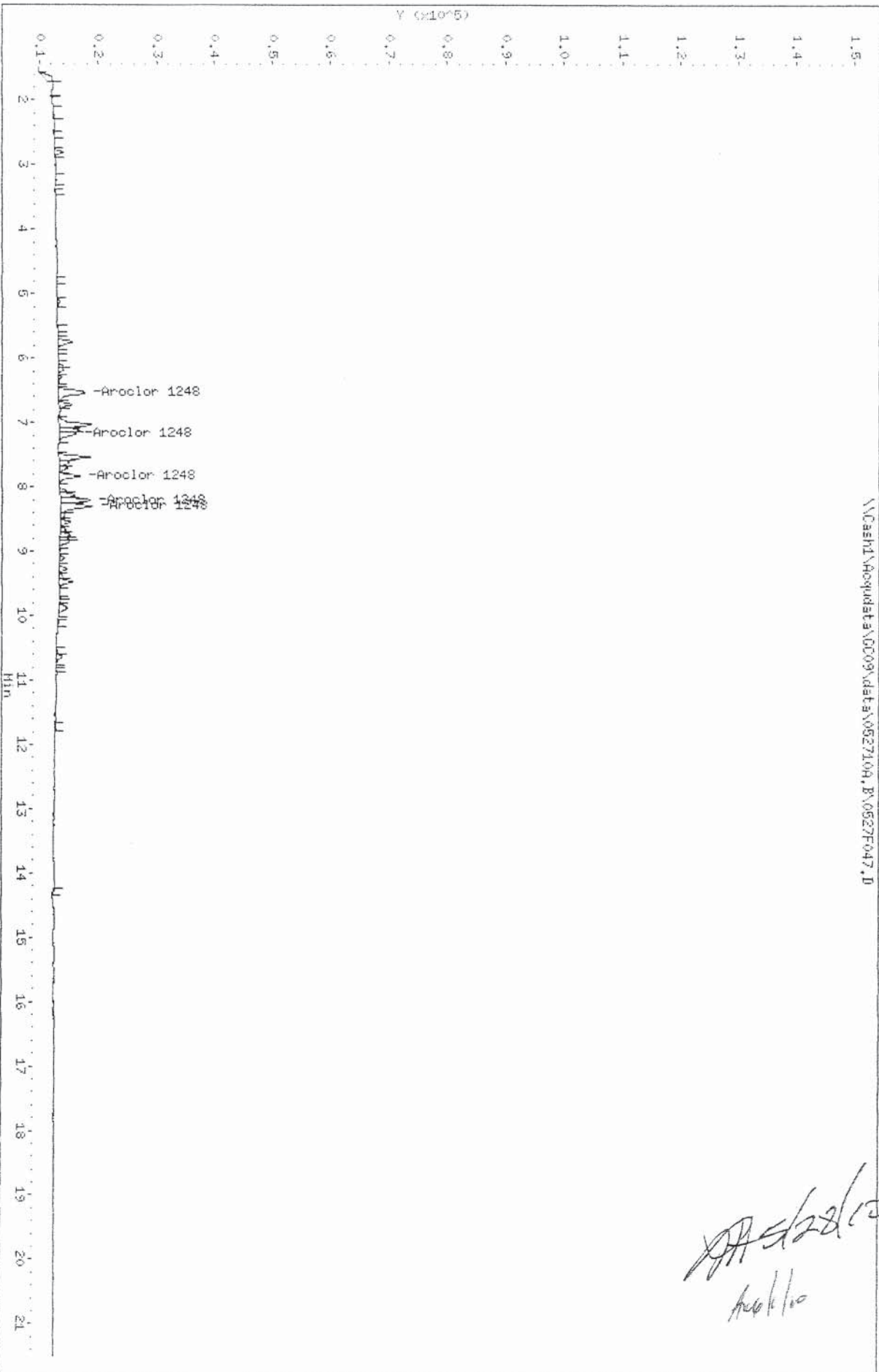
Column phase: DB-35MS

Instrument: 0009.1

Operator: LHarris

Column diameter: 0.53

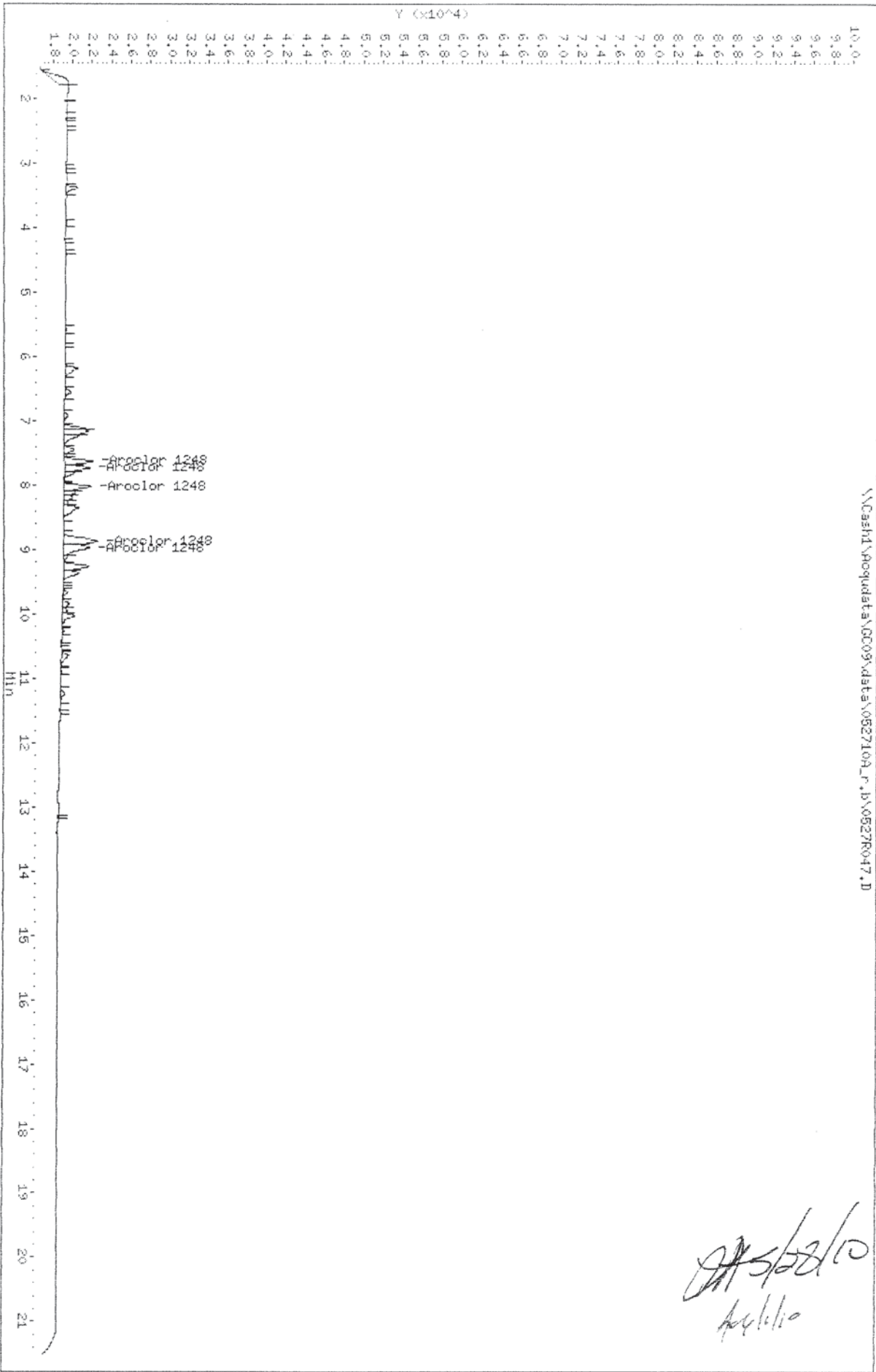
\\CASH1\Acqudata\0009\data\052710A.B\0527F047.D



Data File: \NCSash1\Proquadata\GC09\data\052710A_1.P\0527R047.D
 Date: 28-May-2010 10:45
 Client ID:
 Sample Info: 1248 @ 50ppb | PCB5-53C
 Column phase: DB-XLB

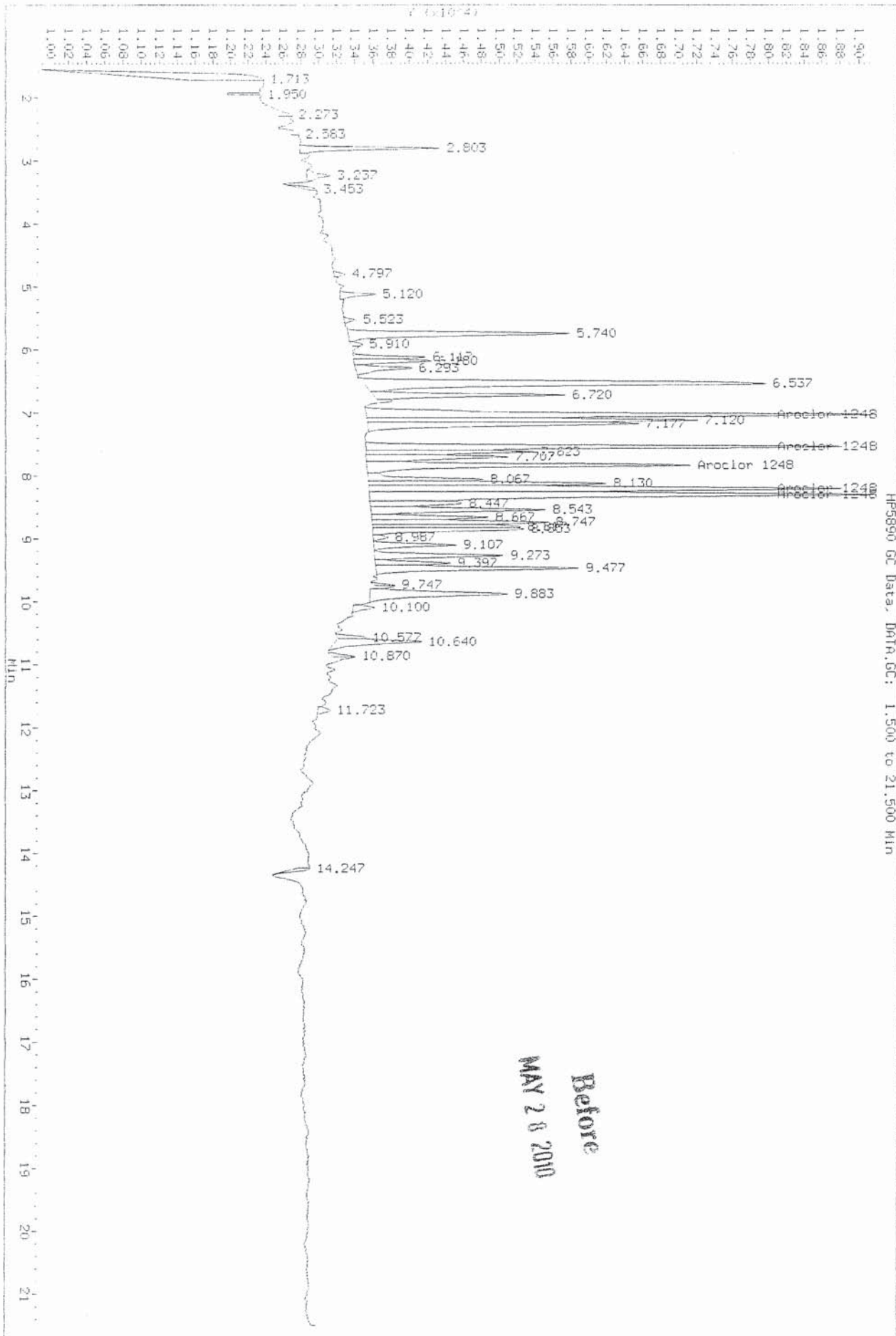
Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53

\NCSash1\Proquadata\GC09\data\052710A_1.P\0527R047.D

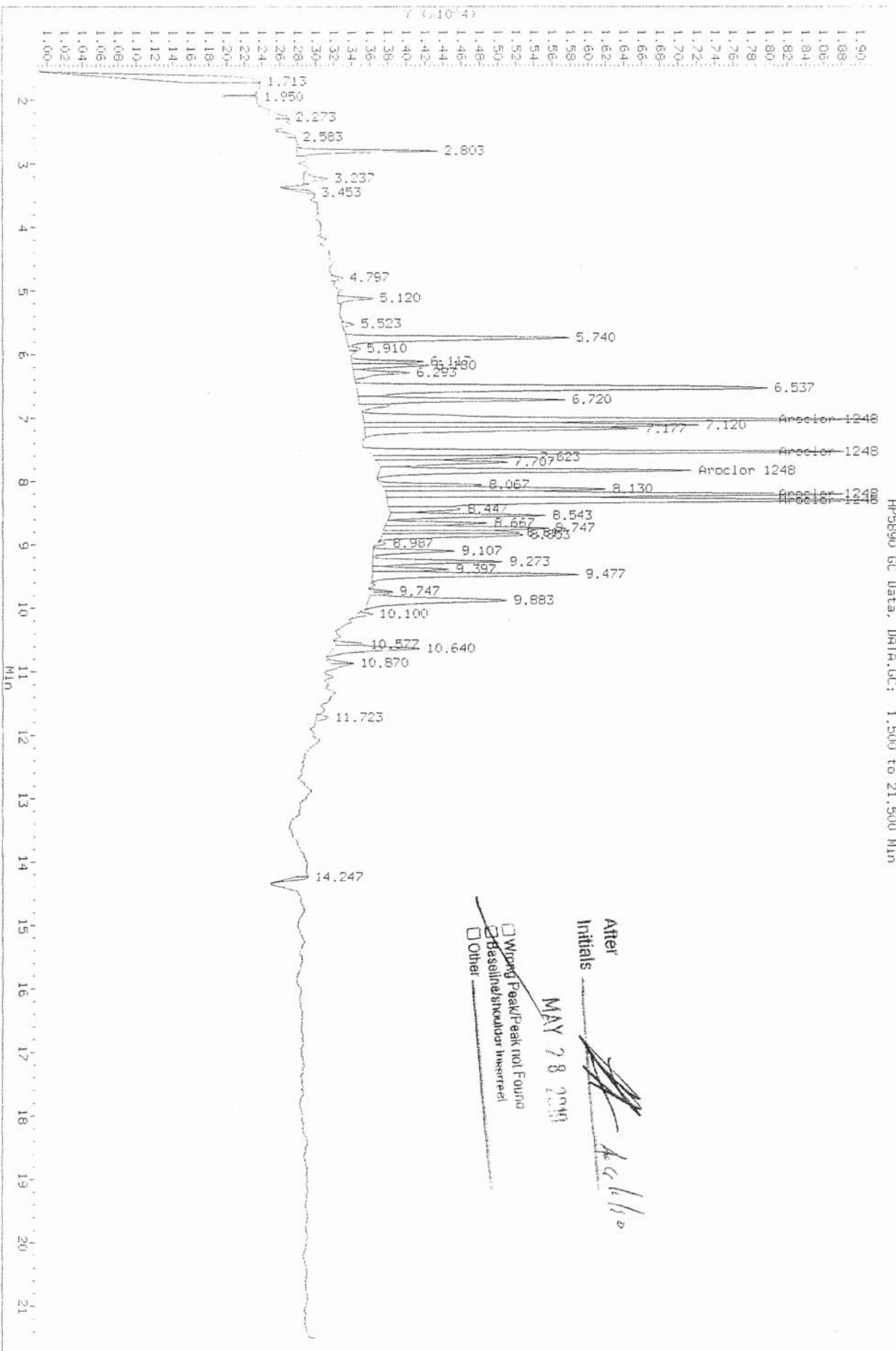


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 [Signature]

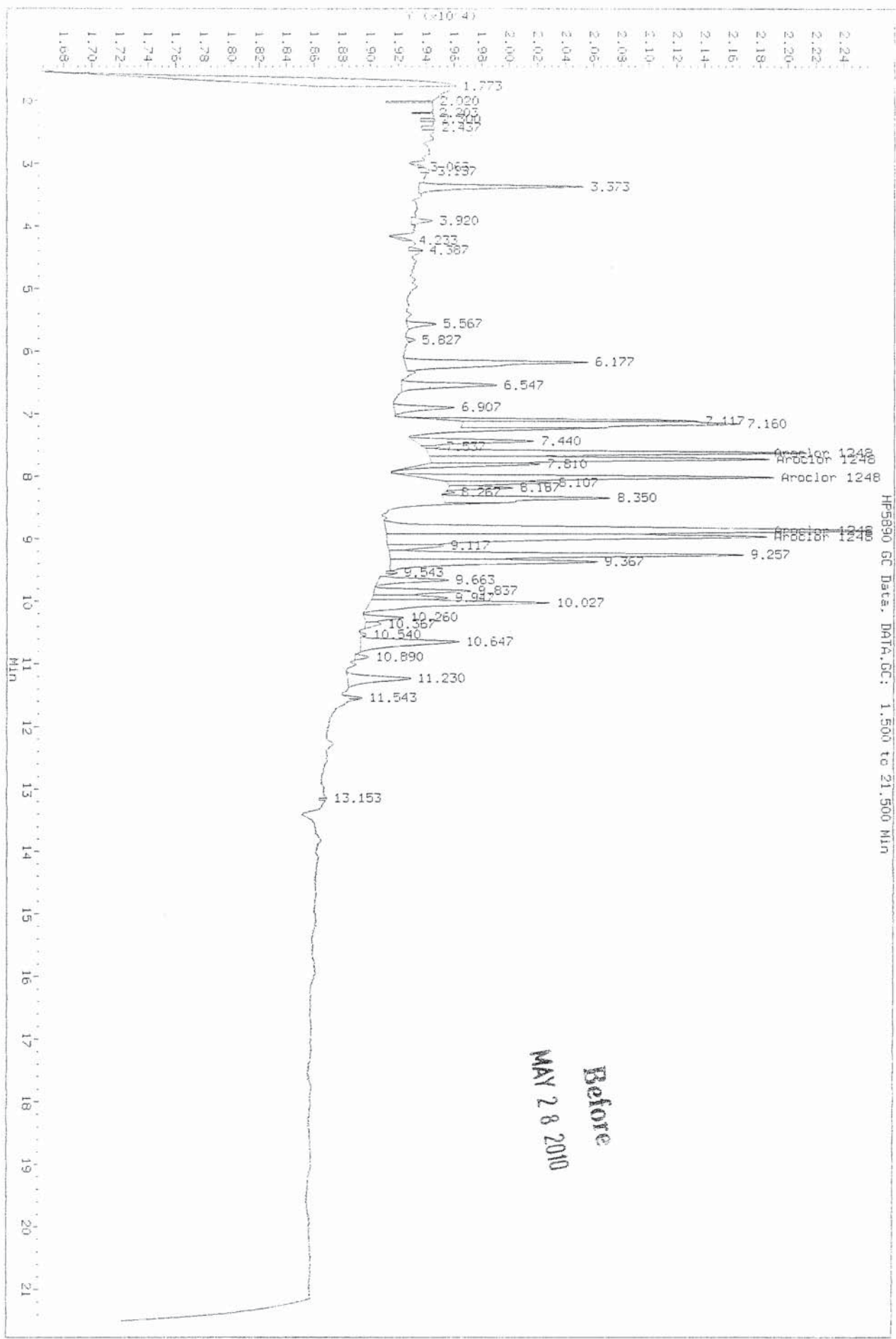
Data File: \\Casha1\ncq\data\GC09\data\052710A_B\0527F047.D
 Injection Date: 28-MAY-2010 10:45
 Instrument: GC09.1
 Client Sample ID:



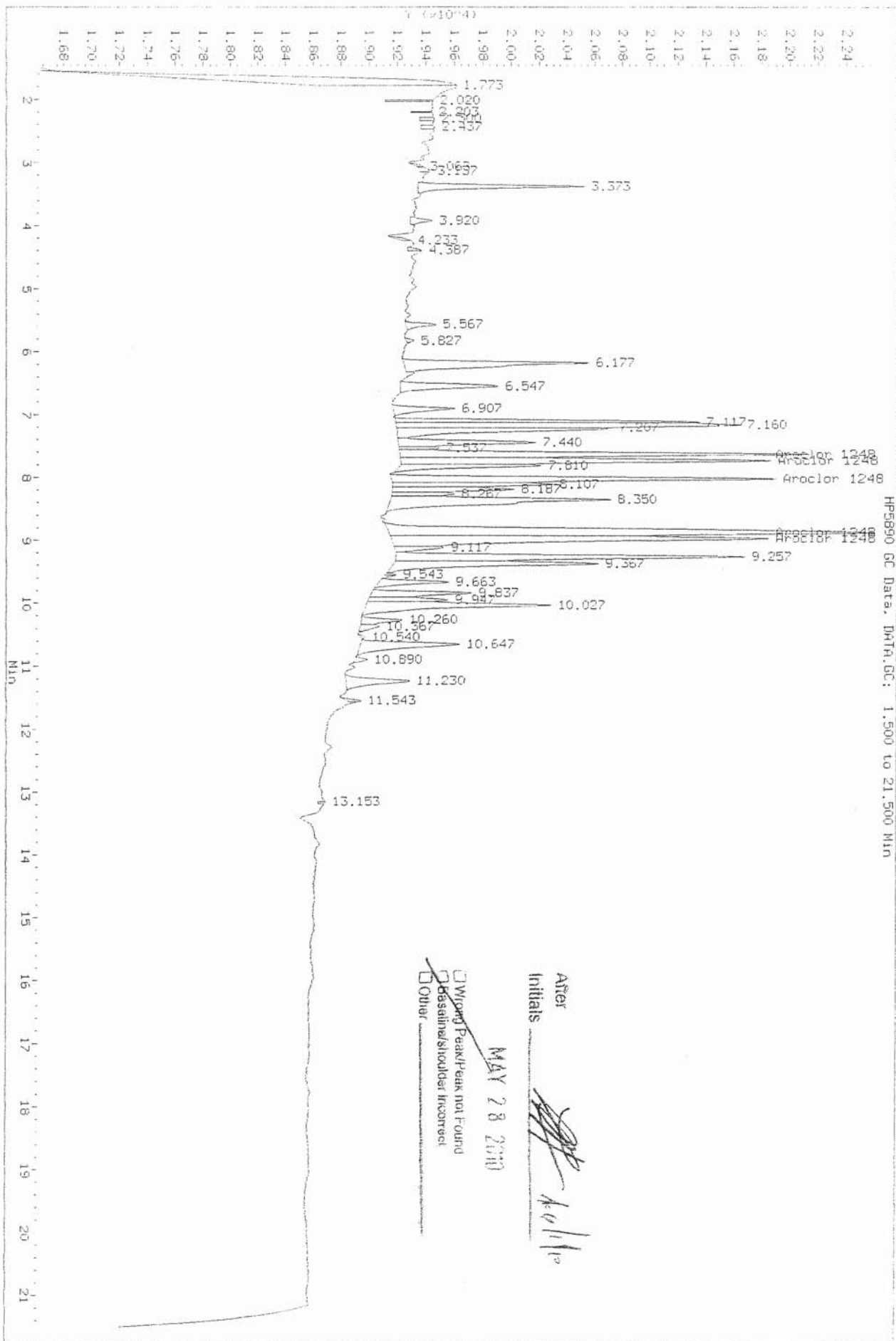
Data File: \\Casha1\Acqdata\GC09\data\052710A_B\05271047.D
 Injection Date: 28-May-2010 10:45
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Flash1\gc\data\GC09\data\0527106_r.b\0527R047.D
 Injection Date: 28-May-2010 10:45
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Dash1\Acq\data\GC09\data\0527109_r_b\0527R047.D
 Injection Date: 28-May-2010 10:45
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F048.D
Report Date: 28-May-2010 17:30

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F048.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R048.D
Inj Date : 28-MAY-2010 11:11
Sample Info: 1248 @ 500ppb | PCB5-53D
Misc Info :
Cal Date : 28-MAY-2010 14:04
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1248.SUB
Sub List #2 : AR1248.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

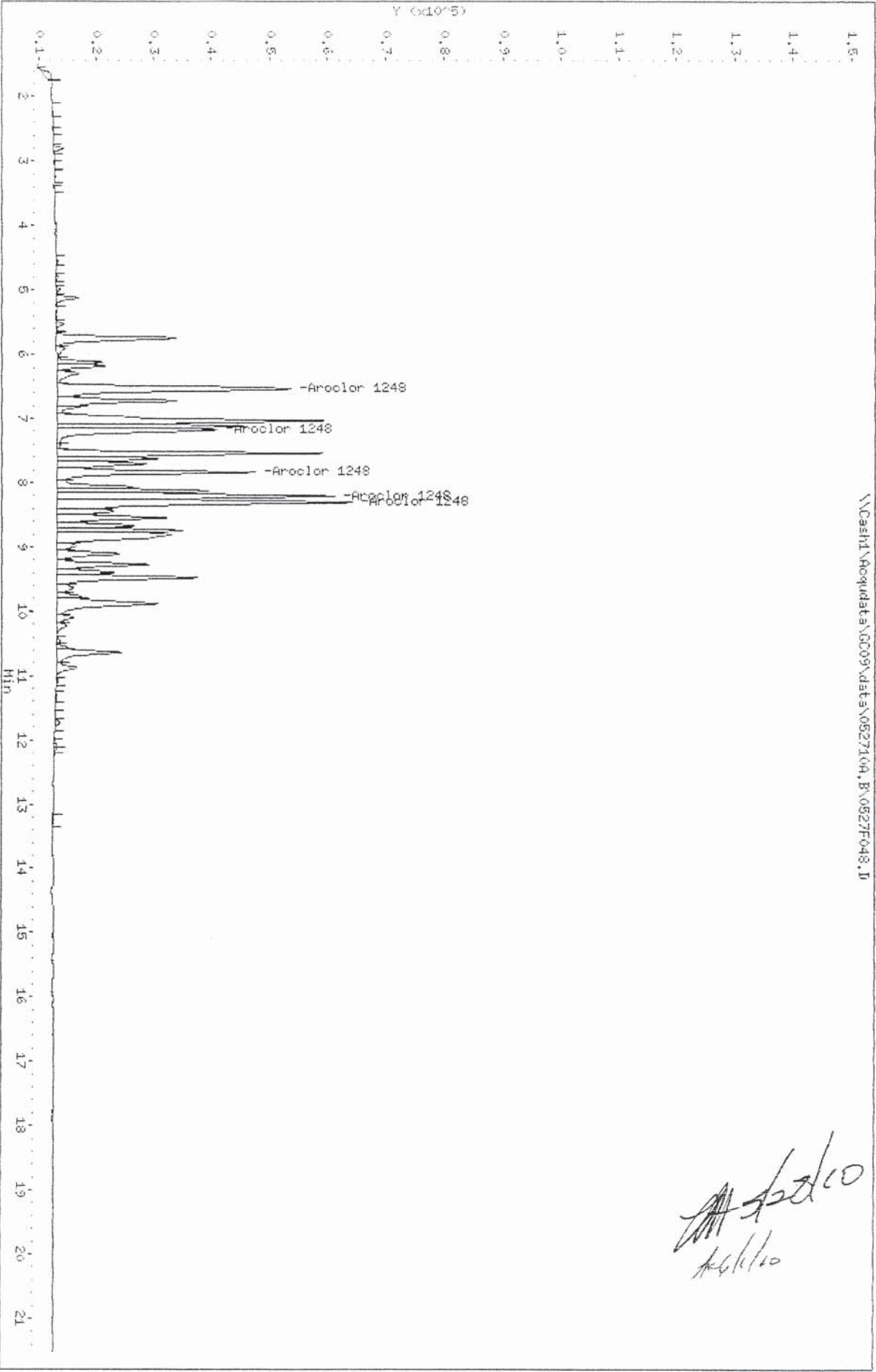
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	6.537	7.623	226287	108687	691	545	80.00- 120.00	100.00
	7.177	7.723	121416	111692	578	564	39.24- 58.85	53.66
	7.837	8.013	144855	110702	577	555	43.38- 65.07	64.01
	8.207	8.867	192923	208975	555	552	66.78- 100.17	85.26
	8.303	8.963	240006	152745	566	558	84.10- 126.14	106.06
			Average of Peak Amounts =		593	555		

[Handwritten signature]
5/28/10
AP/6/10

Data File: \\Cash1\Aoc\data\DC09\data\052710A.B\0527F048.D
Date: 28-May-2010 11:11
Client ID:
Sample Info: 1248 @ 500ppb | PCB5-53D
Column phase: IB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

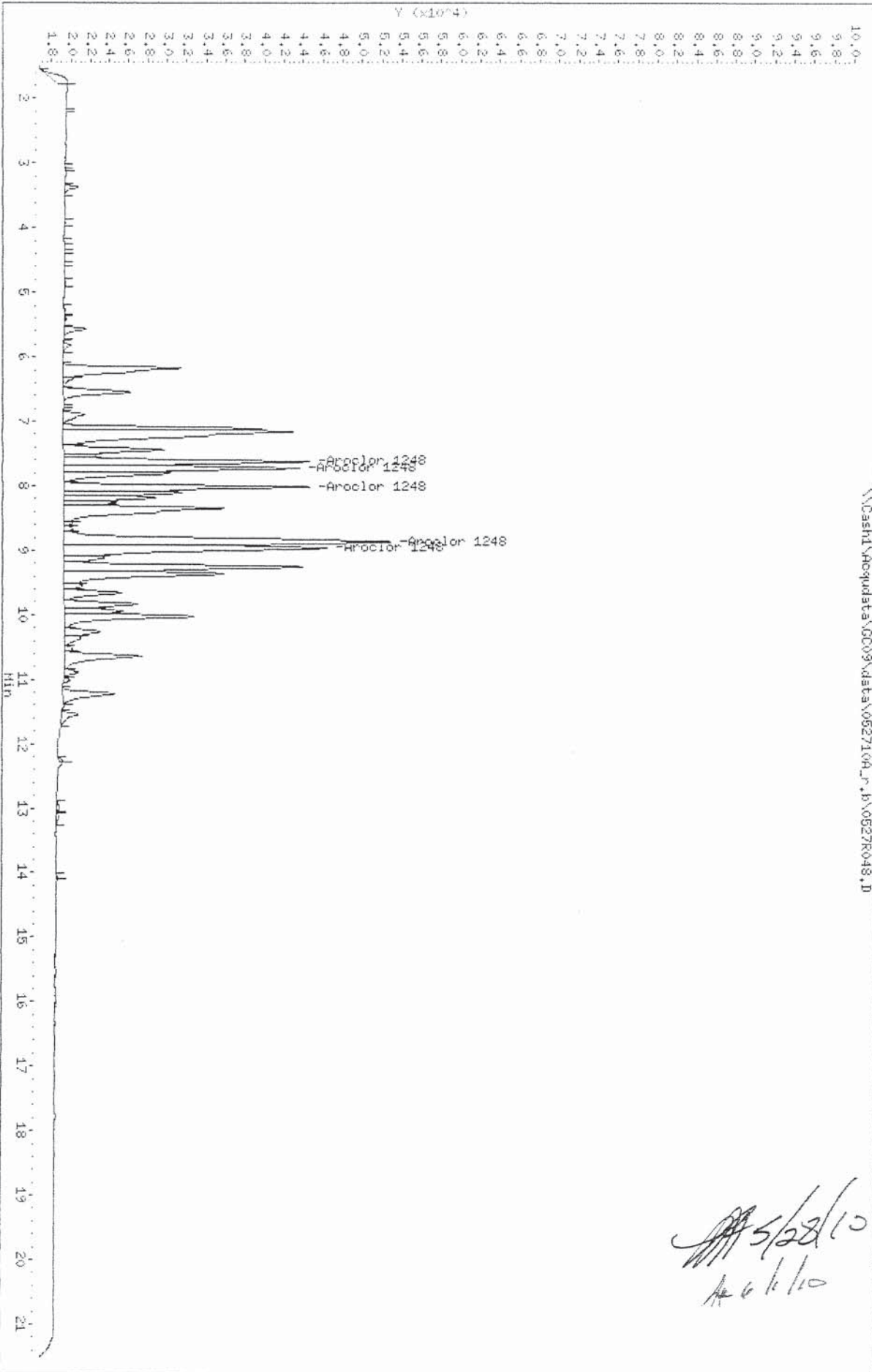
\\Cash1\Aoc\data\DC09\data\052710A.B\0527F048.D



Handwritten signature/initials

Data File: \\Casha1\Acq\data\GC09\data\052710A_r_b\0527R048.D
Date: 28-May-2010 11:11
Client ID:
Sample Info: 1248 @ 500ppb | PCB5-53D
Column phase: DB-XLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



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A 6/1/10

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F049.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R049.D
Inj Date : 28-MAY-2010 11:37
Sample Info: 1248 @ 1000ppb | PCB5-53E
Misc Info :
Cal Date : 28-MAY-2010 14:04
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1248.SUB
Sub List #2 : AR1248.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

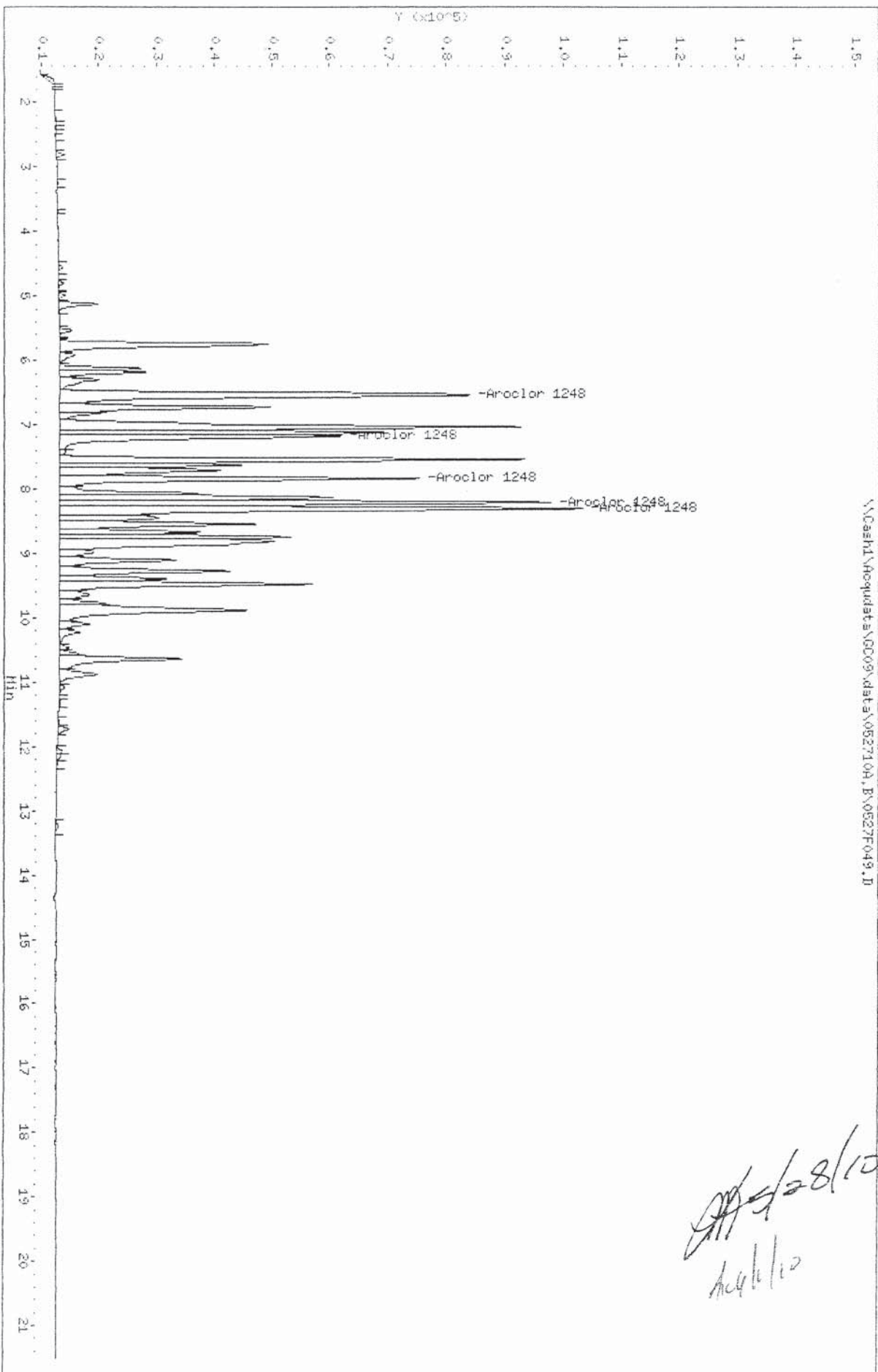
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	6.537	7.623	394337	191702	1090	962	80.00- 120.00	100.00
	7.177	7.723	219634	193574	1050	978	39.24- 58.85	55.70
	7.837	8.013	256124	196694	1020	986	43.38- 65.07	64.95
	8.207	8.863	337925	374966	973	991	66.78- 100.17	85.69
	8.303	8.963	412366	271790	972	993	84.10- 126.14	104.57
			Average of Peak Amounts =		1020	982		

Handwritten signature and date:
5/28/10
ACG/10

Data File: \\CASH1\hq\qudata\GC09\data\052710A.E\0527F049.D
Date: 28-MAY-2010 11:37
Client ID:
Sample Info: 1248 @ 1000ppb | PCBs-53E
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

\\CASH1\hq\qudata\GC09\data\052710A.E\0527F049.D

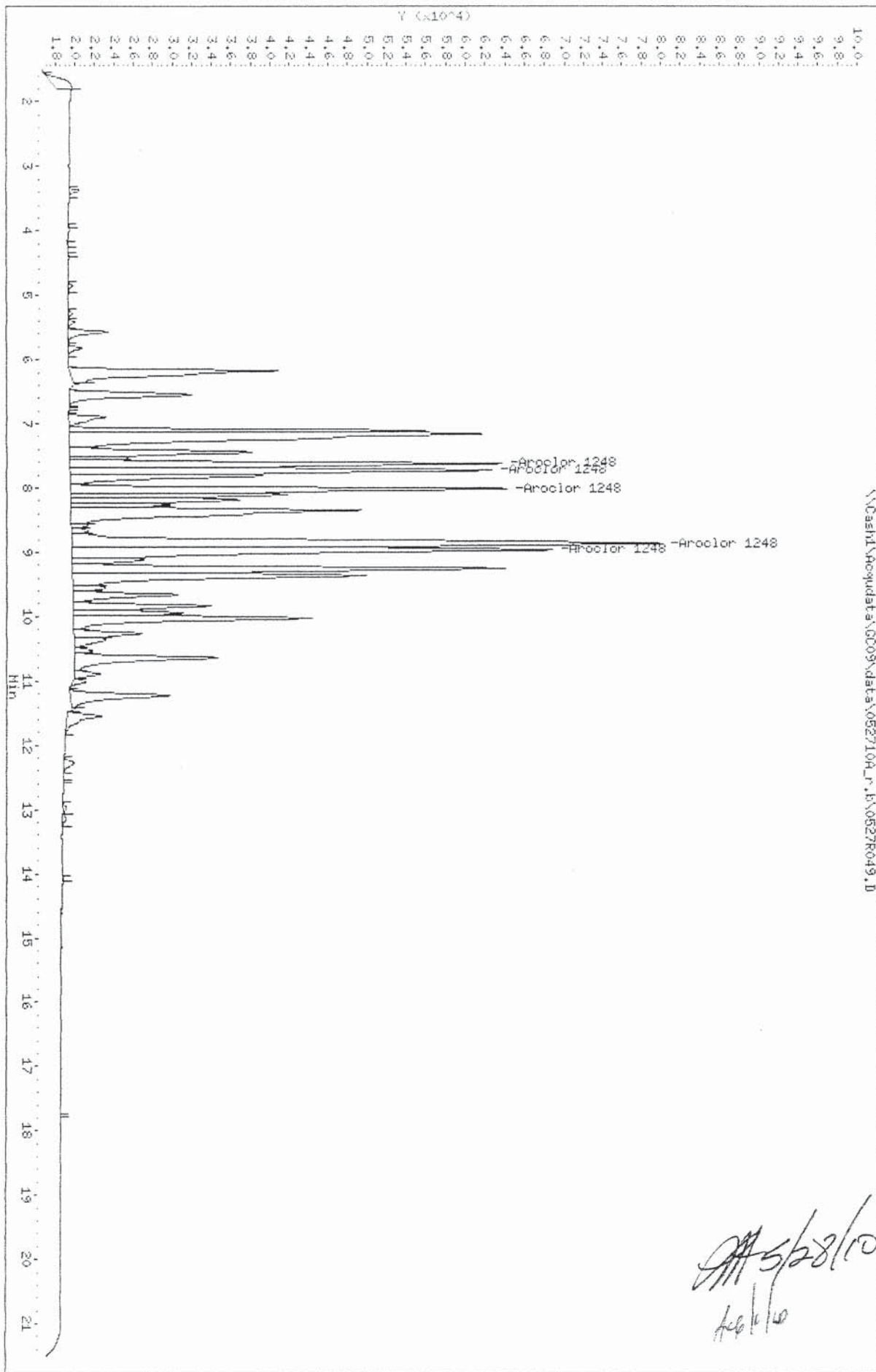


Handwritten signature and date:
28/10
4/12

Data File: \\Cash1\Proqudata\DC09\data\052710A_r.j\0527R049.D
Date: 28-MAY-2010 11:37
Client ID:
Sample Info: 1248 @ 1000ppm | PCB5-53E
Column phase: DB-MLB

Instrument: DC09.1
Operator: LHarris
Column diameter: 0.53

\\Cash1\Proqudata\DC09\data\052710A_r.j\0527R049.D



Handwritten signature and date:
5/28/10
LHarris

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F050.D
Report Date: 28-May-2010 17:30

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F050.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R050.D
Inj Date : 28-MAY-2010 12:03
Sample Info: 1248 @ 2000ppb | PCB5-53F
Misc Info :
Cal Date : 28-MAY-2010 14:04
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

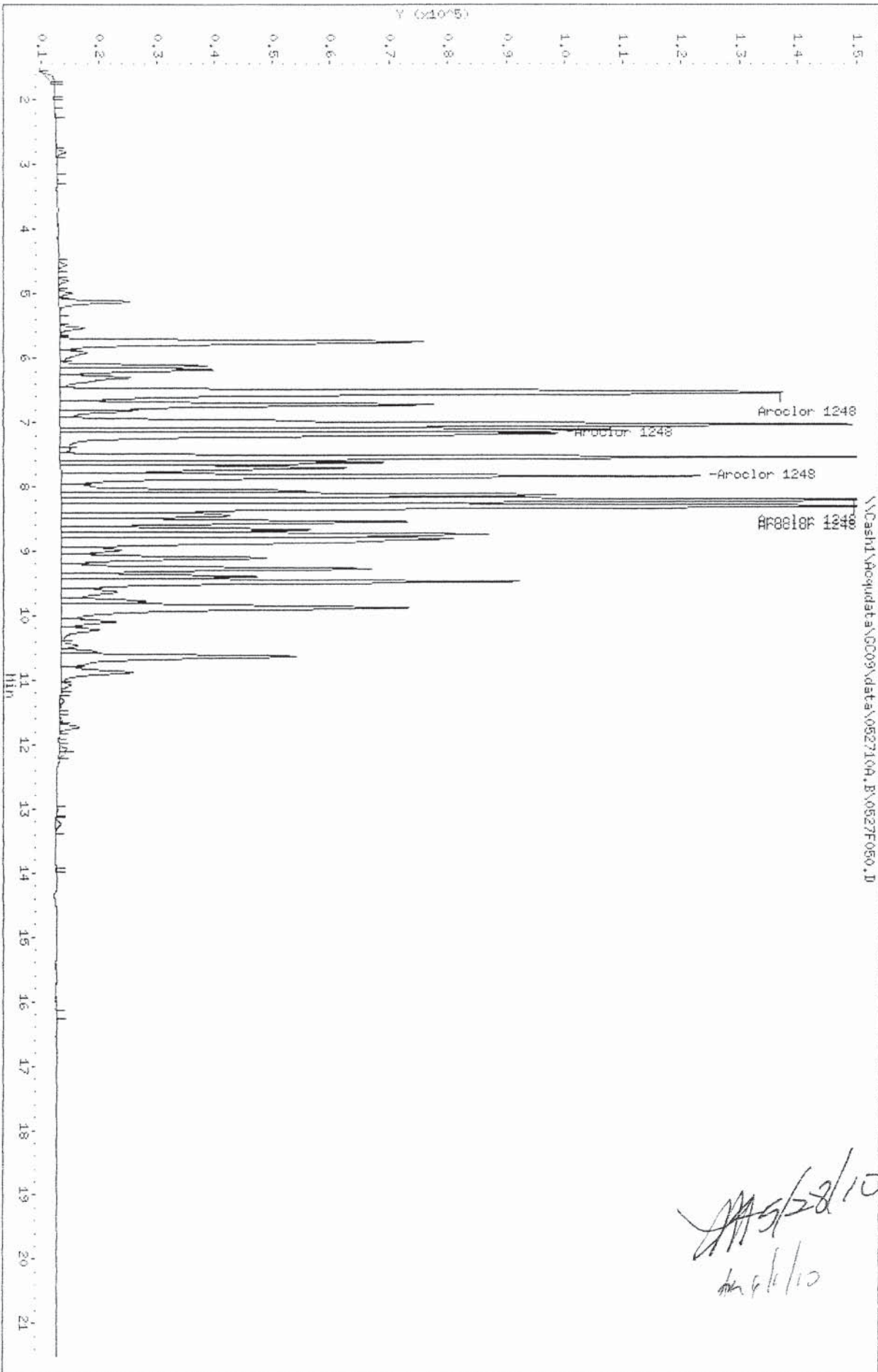
Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1248.SUB
Sub List #2 : AR1248.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	6.537	7.620	688597	336241	1770	1680	80.00- 120.00	100.00
	7.177	7.723	376350	354966	1790	1790	39.24- 58.85	54.65
	7.833	8.013	449526	356802	1790	1780	43.38- 65.07	65.28
	8.207	8.863	590433	676997	1700	1780	66.78- 100.17	85.74
	8.303	8.963	706812	504603	1670	1840	84.10- 126.14	102.65
			Average of Peak Amounts =		1740	1770		

MS/28/10
MS/10/10

Data File: \Cash1\Aocquidat\CC09\data\052710A.B\0527F050.D
Date: 28-MAY-2010 12:03
Client ID:
Sample Info: 1248 @ 2000ppb | PCB5-53F
Column phase: DB-35MS

Instrument: CC09.1
Operator: LHarris
Column diameter: 0.53



Handwritten signature and date:
5/28/10
LHarris

Data File: \\Cash1\Acq\data\0009\data\0527104.Jr.p\0527R050.D

Date: 28-May-2010 12:03

Client ID:

Sample Info: 1248 @ 2000ppb | PCB5-53F

Column phase: DB-ALB

Instrument: GC09.1

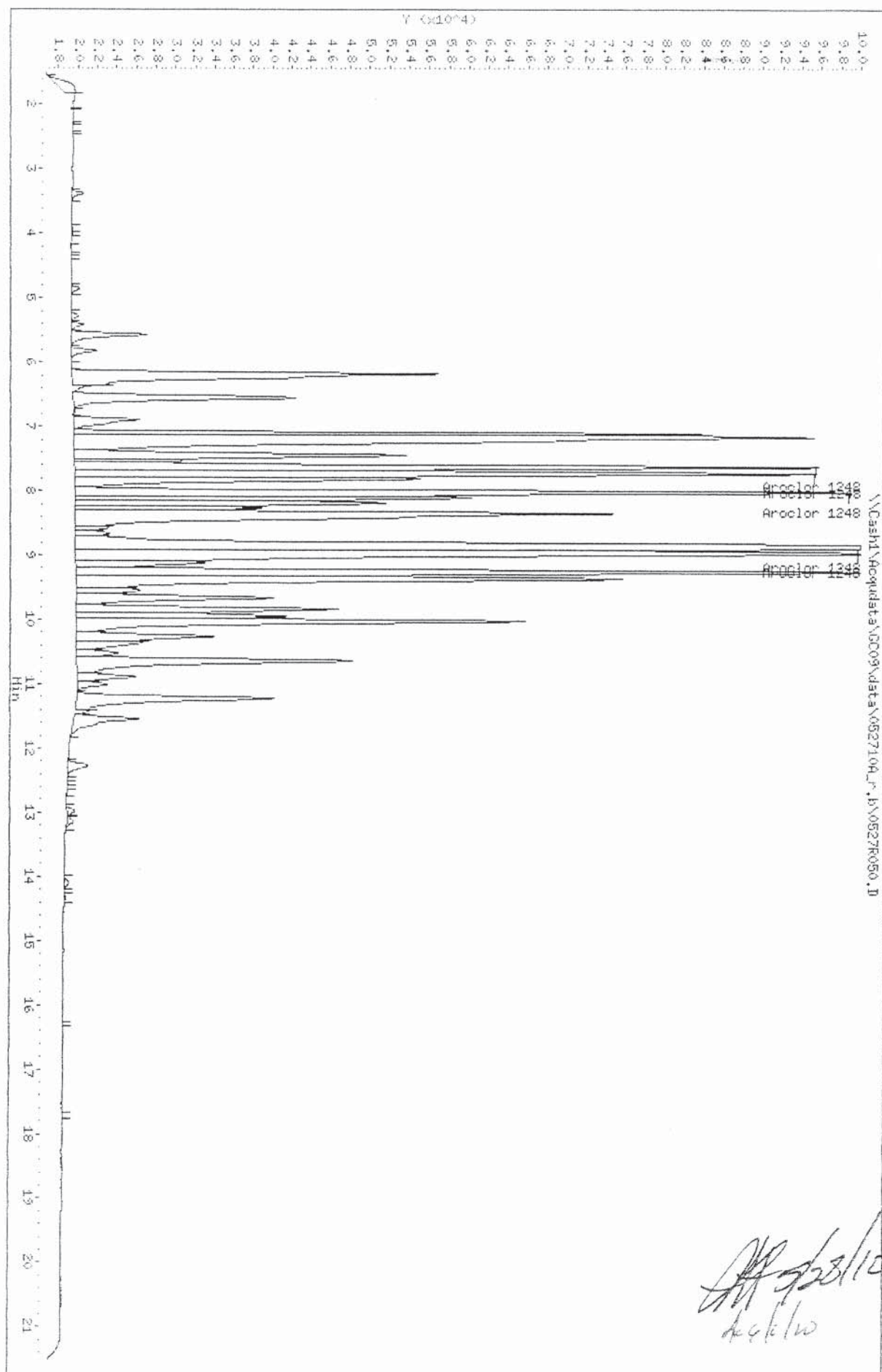
Operator: LHarris

Column diameter: 0.53

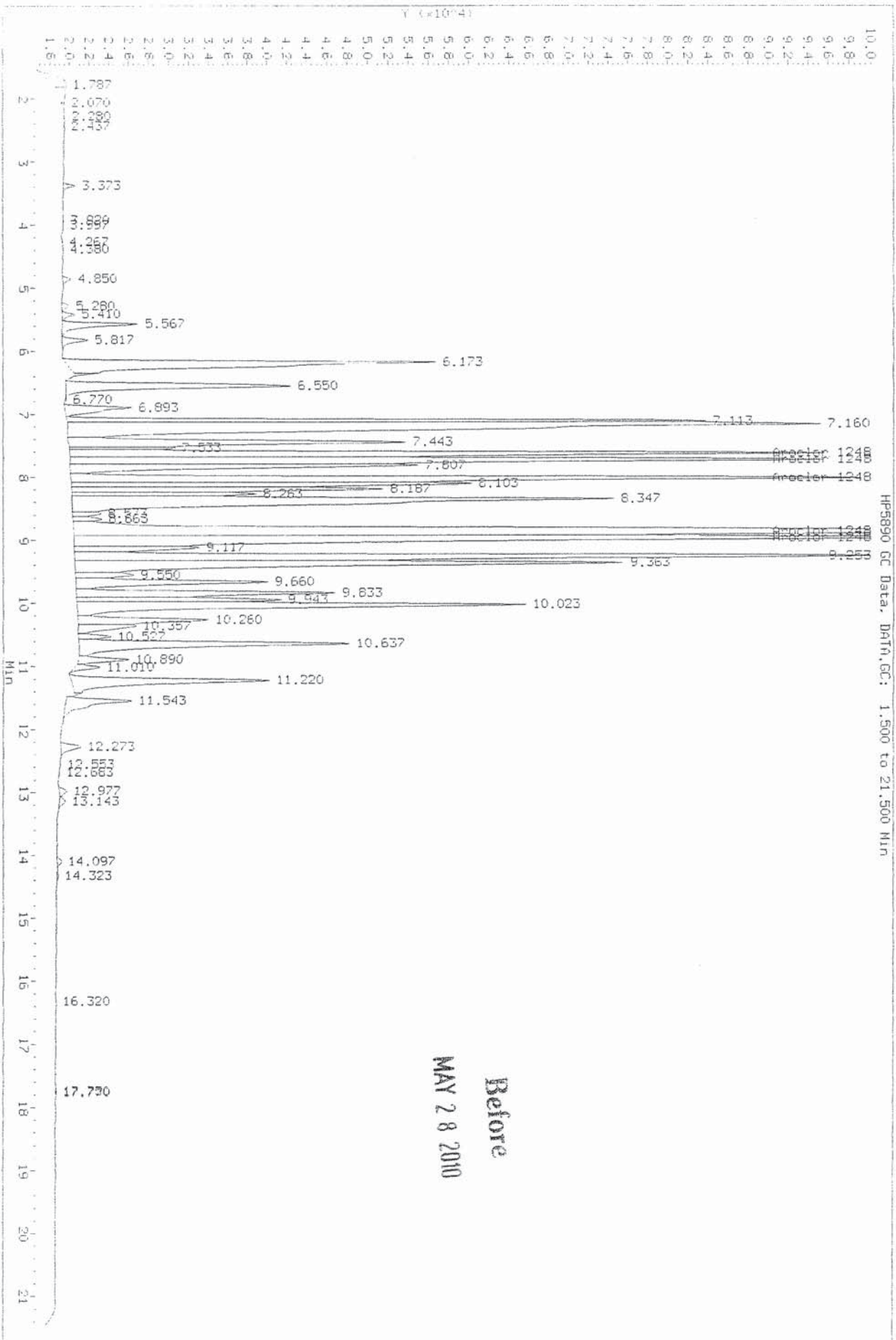
\\Cash1\Acq\data\0009\data\0527104.Jr.p\0527R050.D

Area: 1248
Area: 1248
Area: 1248

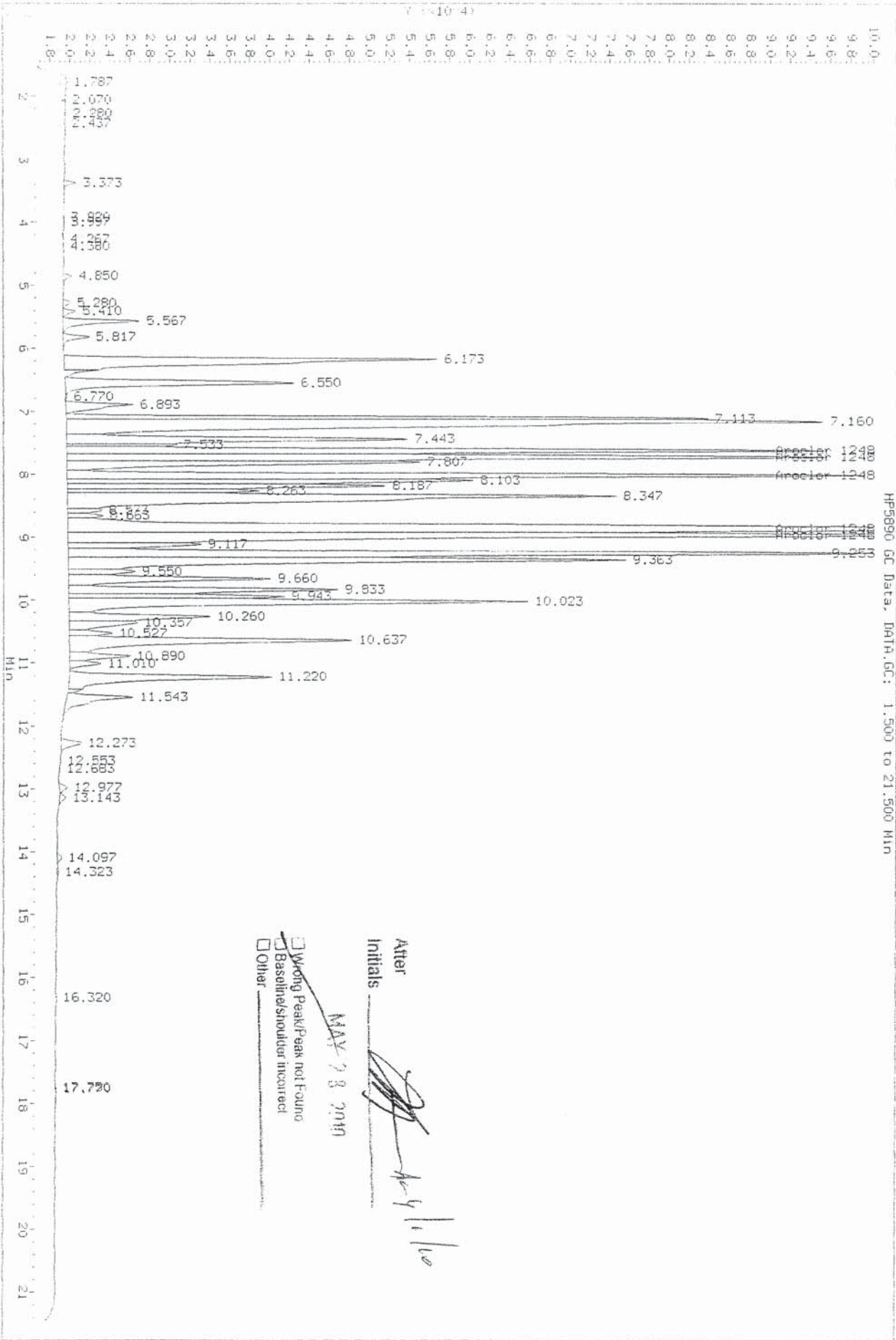
LHarris
5/28/10
Agilent



Data File: \\Cash1\Acq\data\GC09\data\0527104_r_b\0527R050.D
 Injection Date: 28-May-2010 12:03
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acqudata\GC09\data\0522104_r.jv\0527R050.D
 Injection Date: 28-May-2010 12:03
 Instrument: GC09.i
 Client Sample ID:



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F051.D
Report Date: 28-May-2010 17:30

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F051.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R051.D
Inj Date : 28-MAY-2010 12:29
Sample Info: 1248 @ 5000ppb | PCB5-53G
Misc Info :
Cal Date : 28-MAY-2010 14:04
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1248.SUB
Sub List #2 : AR1248.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	6.533	7.620	1481123	732014	3570	3660	80.00- 120.00	100.00
	7.177	7.723	799924	762186	3810	3840	39.24- 58.85	54.01
	7.833	8.013	988197	798492	3940	3990	43.38- 65.07	66.72
	8.207	8.860	1272422	1558356	3660	4110	66.78- 100.17	85.91
	8.303	8.960	1534313	1125026	3620	4090	84.10- 126.14	103.59
Average of Peak Amounts =					3720	3940		

Handwritten signature and date:
5/28/10
AG 6/1/10

Data File: \\dashh1\Acq\data\GC09\data\052710A.B\0527F051.D

Date: 28-MAY-2010 12:29

Client ID:

Sample Info: 1248 @ 5000ppb | PCB5-53C

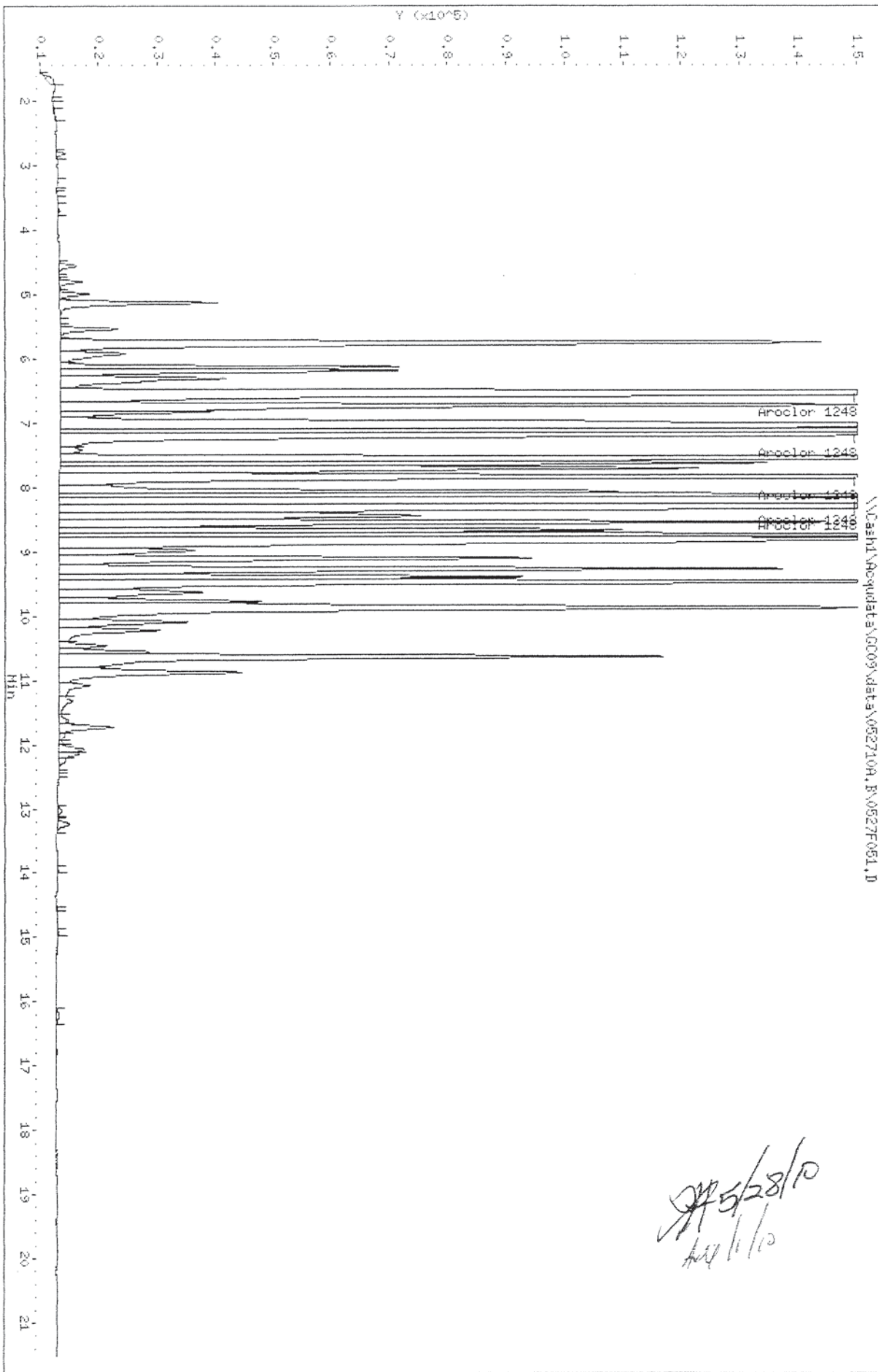
Column phase: DB-25MS

Instrument: GC09.1

Operator: LHarris

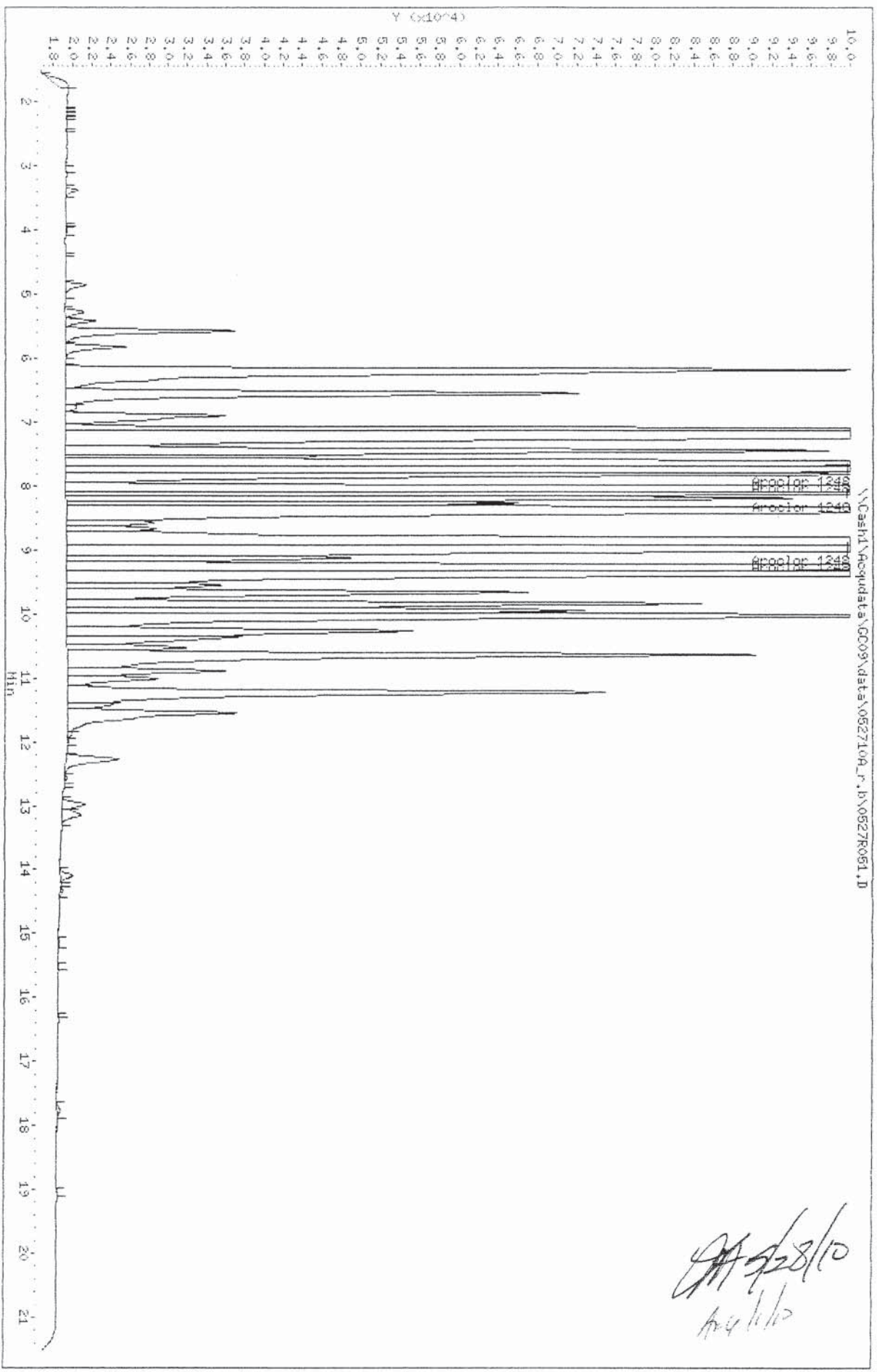
Column diameter: 0.53

\\dashh1\Acq\data\GC09\data\052710A.B\0527F051.D



Data File: \VCash1\Acq\data\GC09\data\0527104_r.j\0527R051.D
 Date: 28-MAY-2010 12:29
 Client ID:
 Sample Info: 1248 @ 5000ppb | PCB5-53G
 Column phase: DB-5LB

Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F052.D
Report Date: 28-May-2010 17:30

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F052.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R052.D
Inj Date : 28-MAY-2010 12:55
Sample Info: 1016 @ 1000ppb | PCB5-49E
Misc Info :
Cal Date : 28-MAY-2010 14:15
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	6.180	6.543	160050	194613	1130	1060	80.00- 120.00	100.00 (M)
	6.723	7.163	333864	326260	1160	1010	162.91- 244.36	208.60 (M)
	7.030	7.447	256998	181463	1060	1150	145.03- 217.55	160.57 (M)
	7.540	7.623	224481	137090	1080	1050	115.01- 172.51	140.26 (M)
	7.837	7.723	198343	162665	1290	1100	76.85- 115.27	123.93 (M)
	Average of Peak Amounts =				1140	1070		

QC Flag Legend

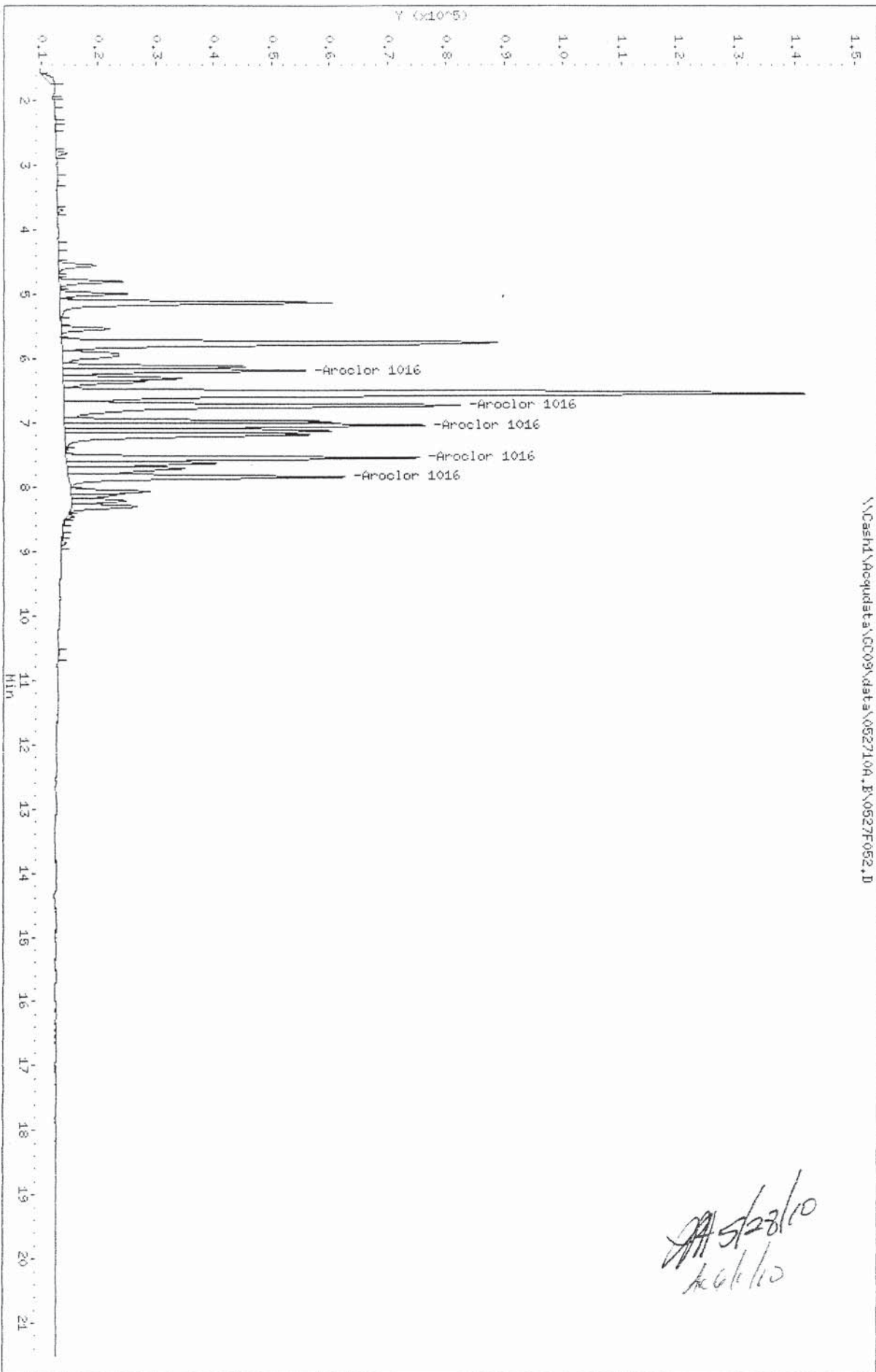
M - Compound response manually integrated.

Handwritten signature and date:
5/28/10
Acq 6/10

Data File: \\CASH1\Acqudata\GC09\data\052710A.B\0527F052.D
Date: 28-May-2010 12:55
Client ID:
Sample Info: 1016 @ 1000ppb | PCB5-49E
Column phase: DB-35MS

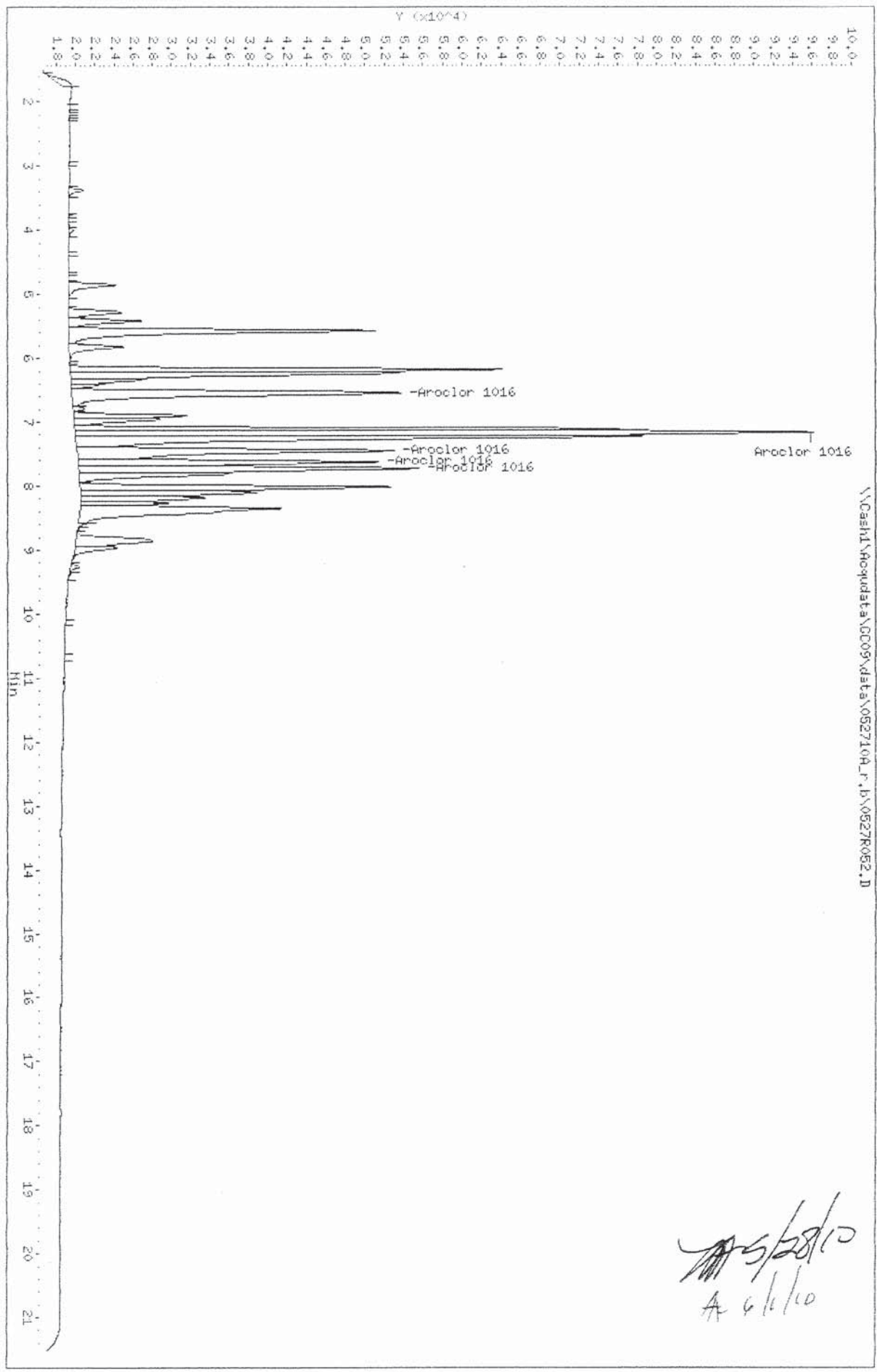
Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

\\CASH1\Acqudata\GC09\data\052710A.B\0527F052.D



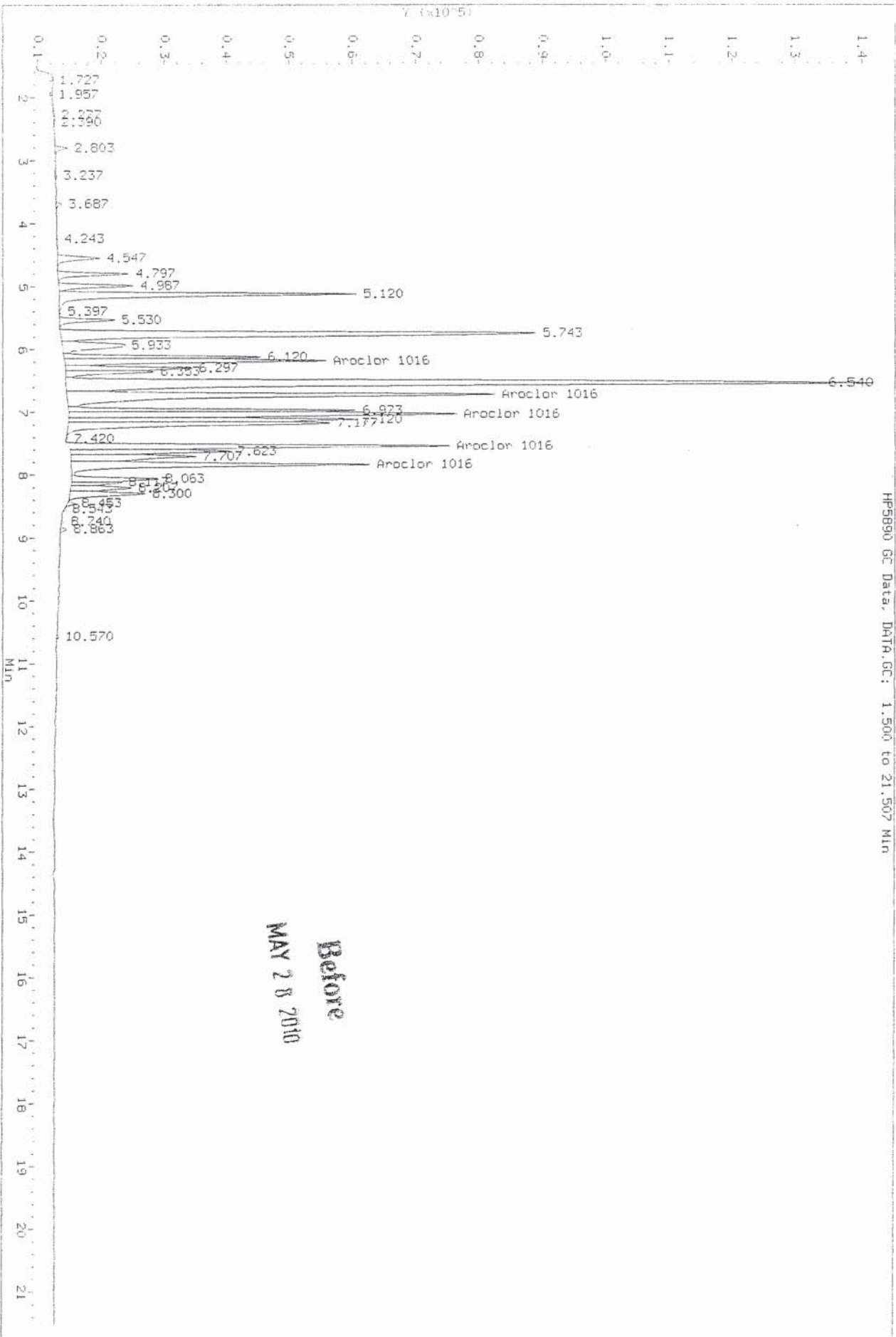
Data File: \\Casht\Acq\data\GC09\data\052710A_r.p\0527R052.D
Date: 28-May-2010 12:55
Client ID:
Sample Info: 1016 @ 1000ppb | PCBs-49E
Column phase: DB-MLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



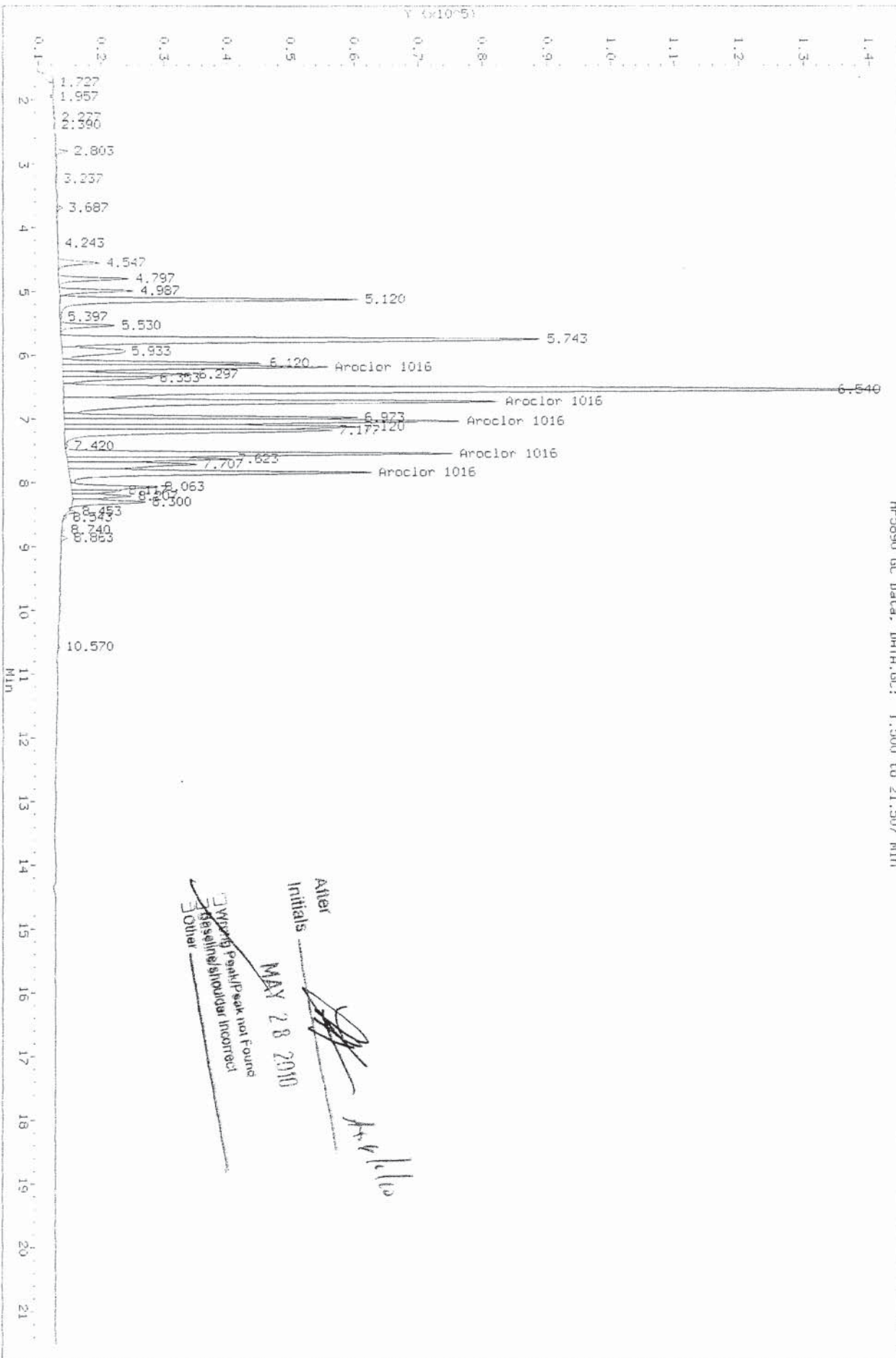
Handwritten signature
5/28/10
A 6/1/10

Data File: \\C:\ash1\gc\data\GC09\data\052710A.B\0527F052.D
Injection Date: 28-May-2010 12:55
Instrument: GC09.1
Client Sample ID:



Before
MAY 28 2010

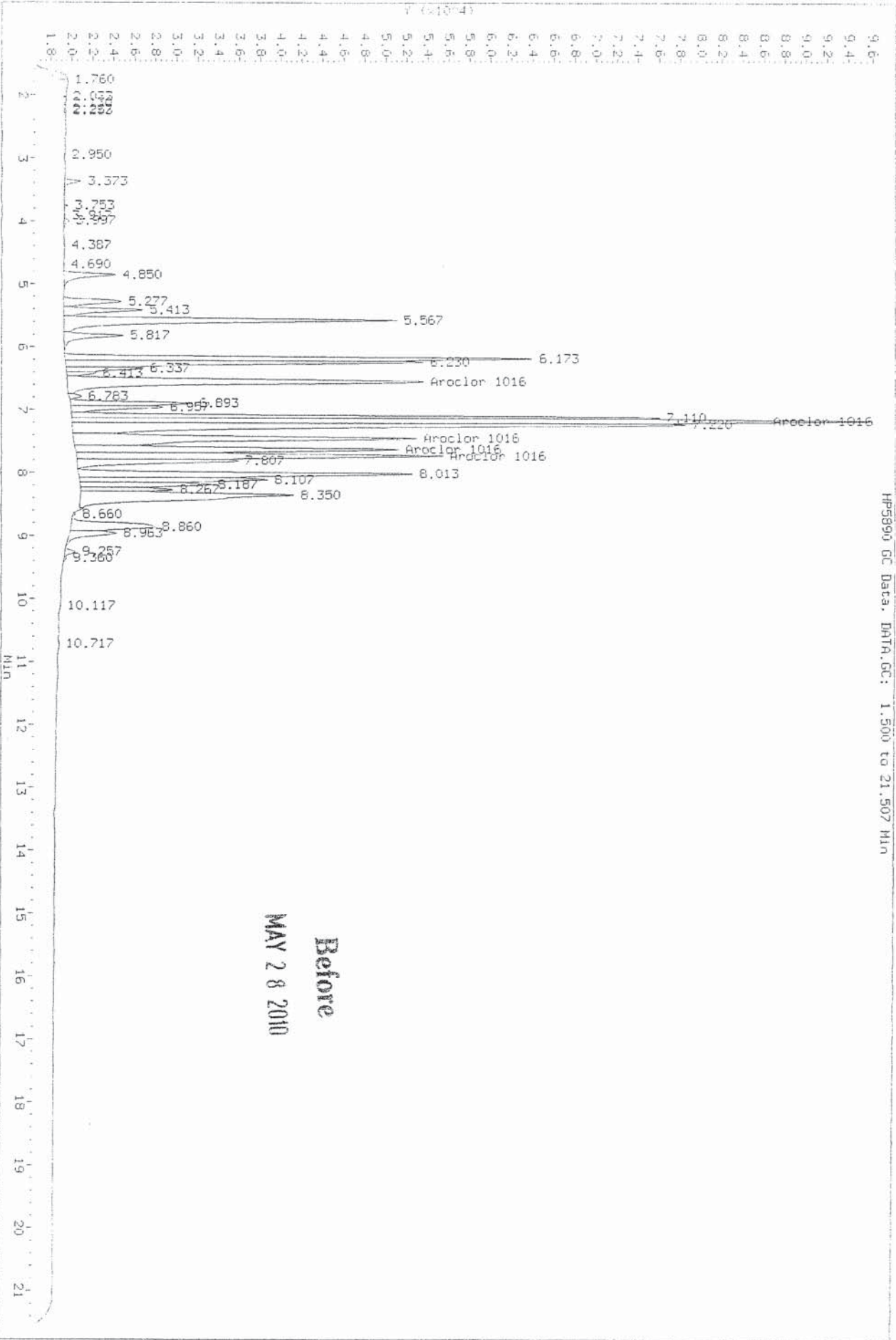
Data File: N:\Cash\Acquidata\GC09\data\0527104.B\0527F052.D
 Injection Date: 28-May-2010 12:55
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.507 MIN

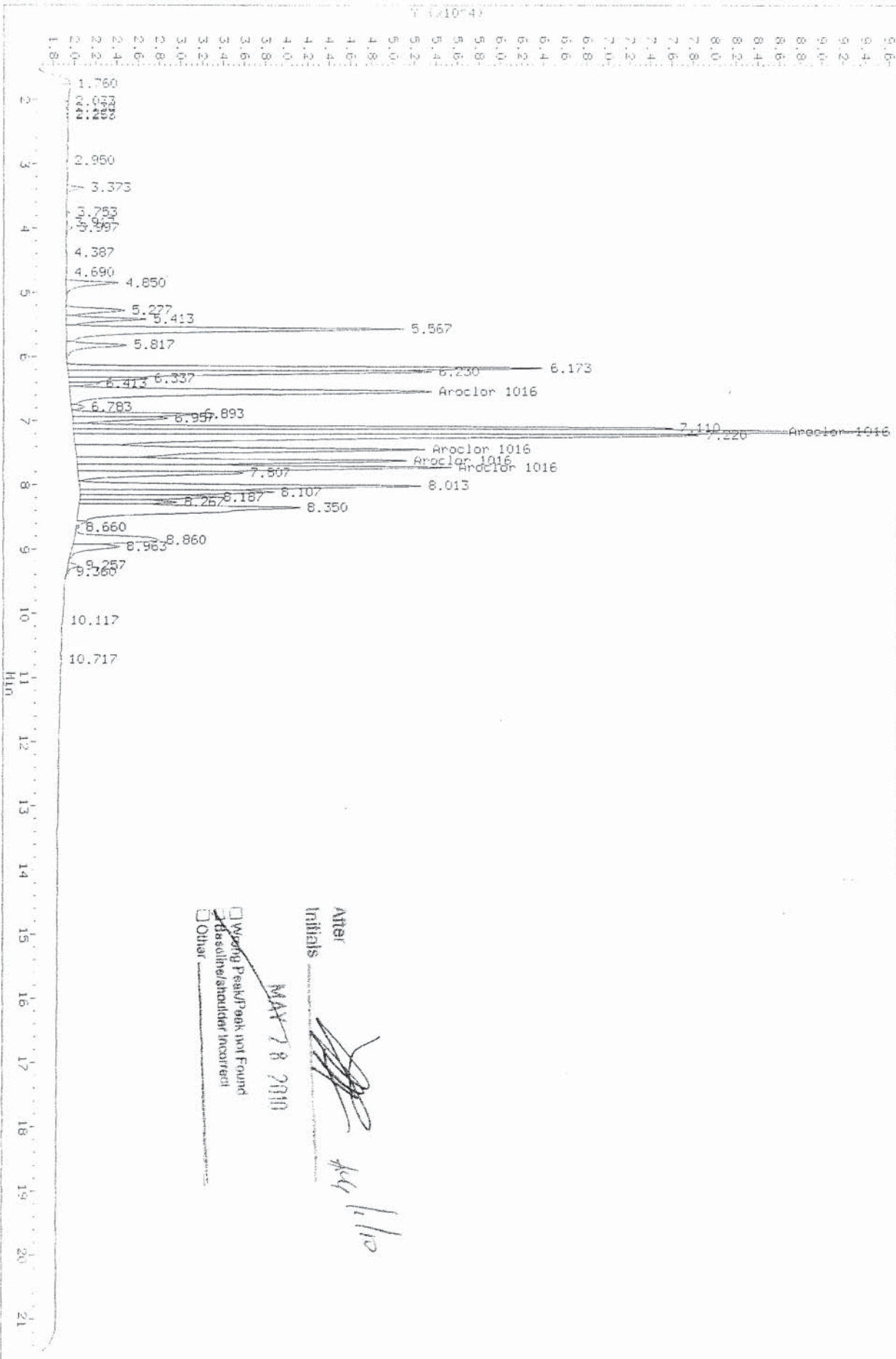
Alter Initials *[Signature]*
 MAY 28 2010
 Wrong Peak
 Peak not Found
 Retention/shoulder incorrect
 Other

Data File: \\C:\aht\hgc\data\GC09\data\0527109_r.b\0527R052.D
 Injection Date: 28-May-2010 12:55
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\hpc\data\GC09\data\052710A.LR.D\0527R052.D
 Injection Date: 29-May-2010 12:55
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.507 Min



After _____
 Initials *[Signature]*
 MAY 28 2010
 Wrong Peak/Peak not Found
 Baseline/shoulder Inconsistent
 Other _____

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F053.D
Report Date: 28-May-2010 18:05

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F053.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R053.D
Inj Date : 28-MAY-2010 13:21
Sample Info: 1221 @ 1000ppb | PCB5-53J
Misc Info :
Cal Date : 28-MAY-2010 18:00
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	3.687	4.690	66551	19366	925	956	80.00- 120.00	100.00 (M)
	4.543	4.850	41087	35793	950	1020	51.26- 76.90	61.74 (M)
	4.797	5.287	101432	77078	938	962	133.68- 200.52	152.41 (M)
	4.987	5.413	67723	55532	941	992	85.57- 128.35	101.76 (M)
			Average of Peak Amounts =		938	982		

QC Flag Legend

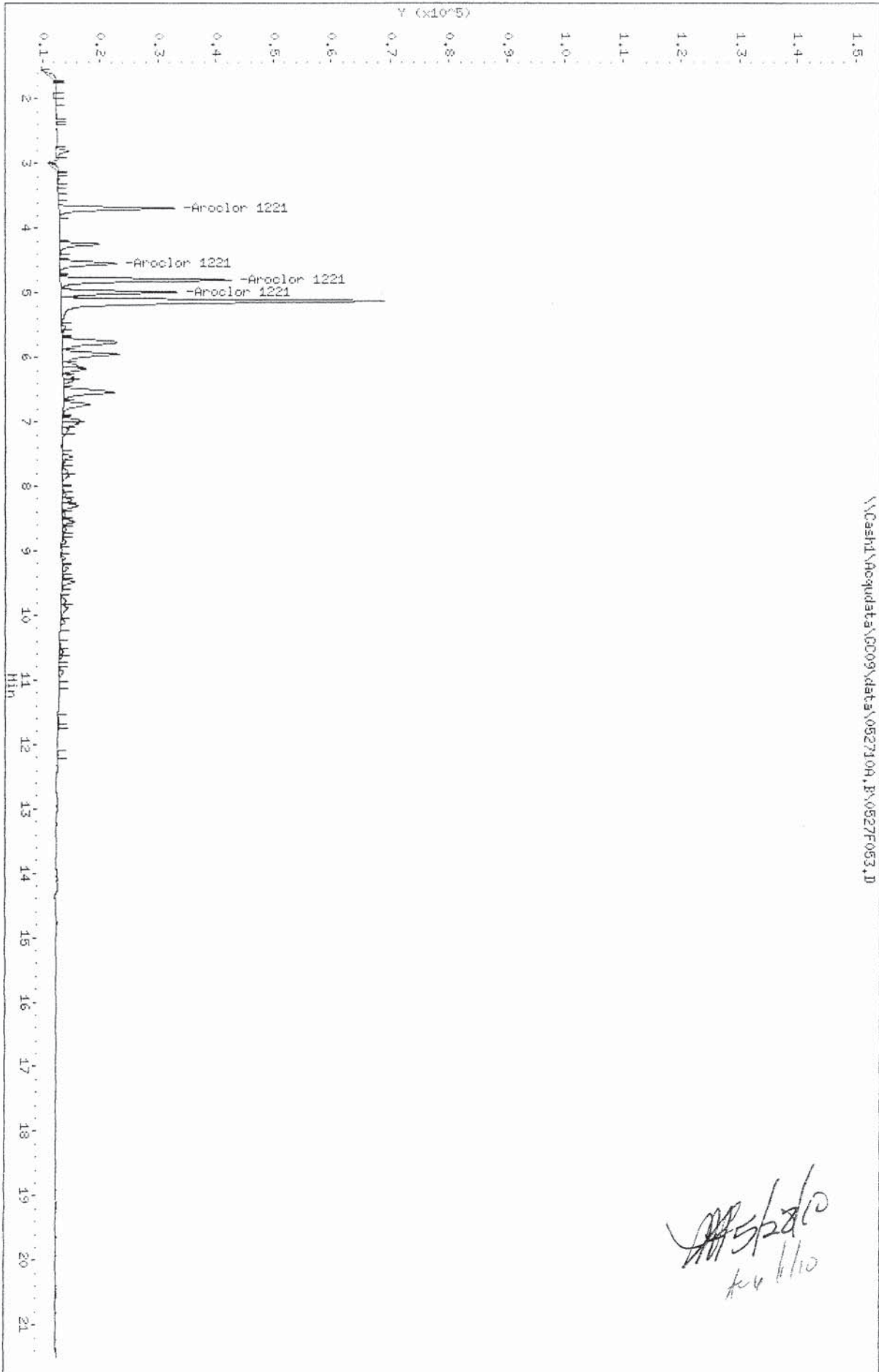
M - Compound response manually integrated.

Handwritten signature and date: 5/28/10

Data File: \\Cash1\Acq\data\GC09\data\0527104.F\0527F053.D
Date: 28-MAY-2010 13:21
Client ID:
Sample Info: 1221 @ 1000ppb | PCB8-53J
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

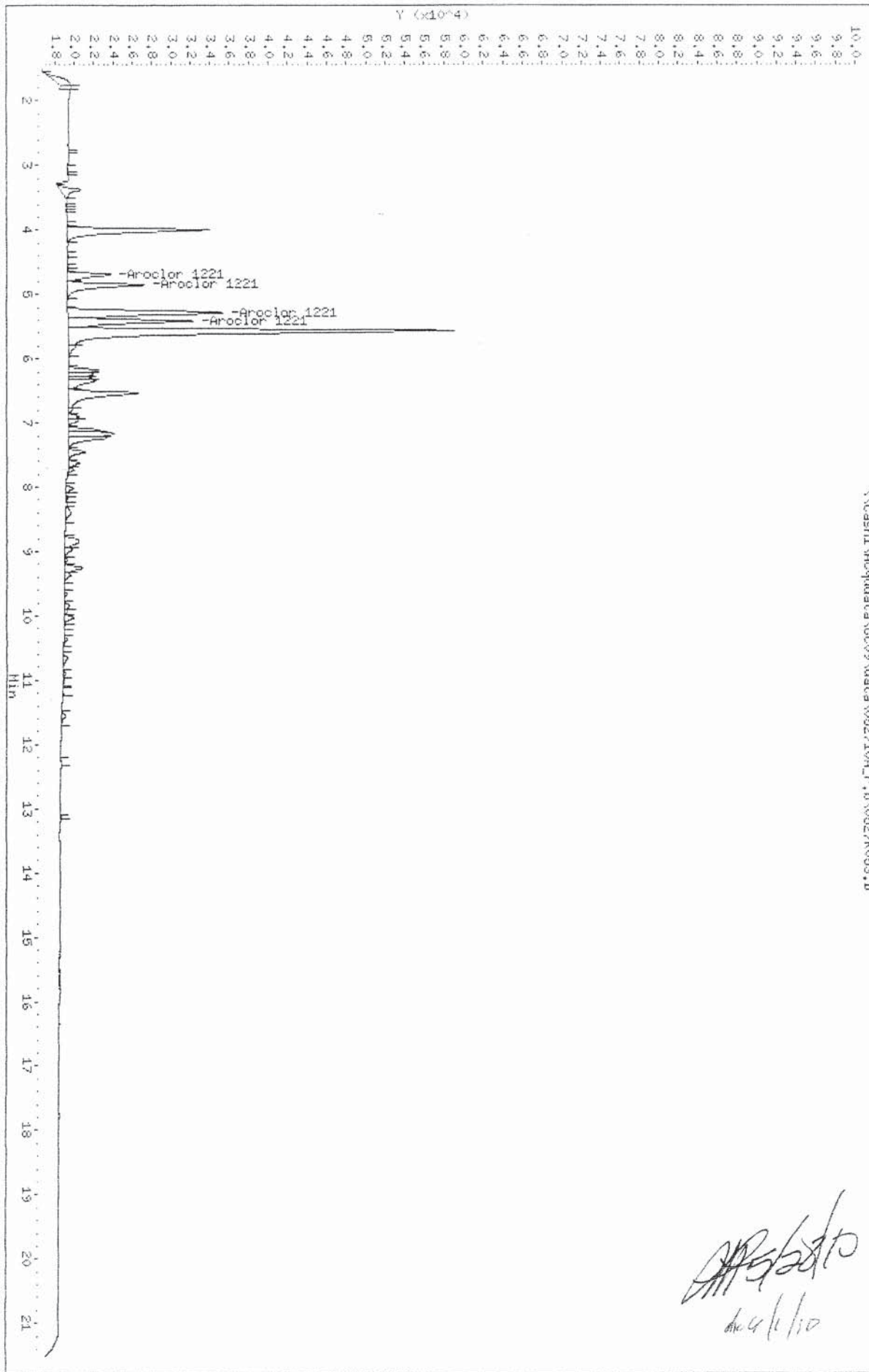
Handwritten signature and date:
5/28/10
k4 h/10



Data File: \CASH1\Acqudata\GC09\data\052710A_r.b\0527R053.D
Date: 28-HRY-2010 13:21
Client ID:
Sample Info: 1221 @ 1000ppm | PCB5-53J
Column phase: DB-MLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

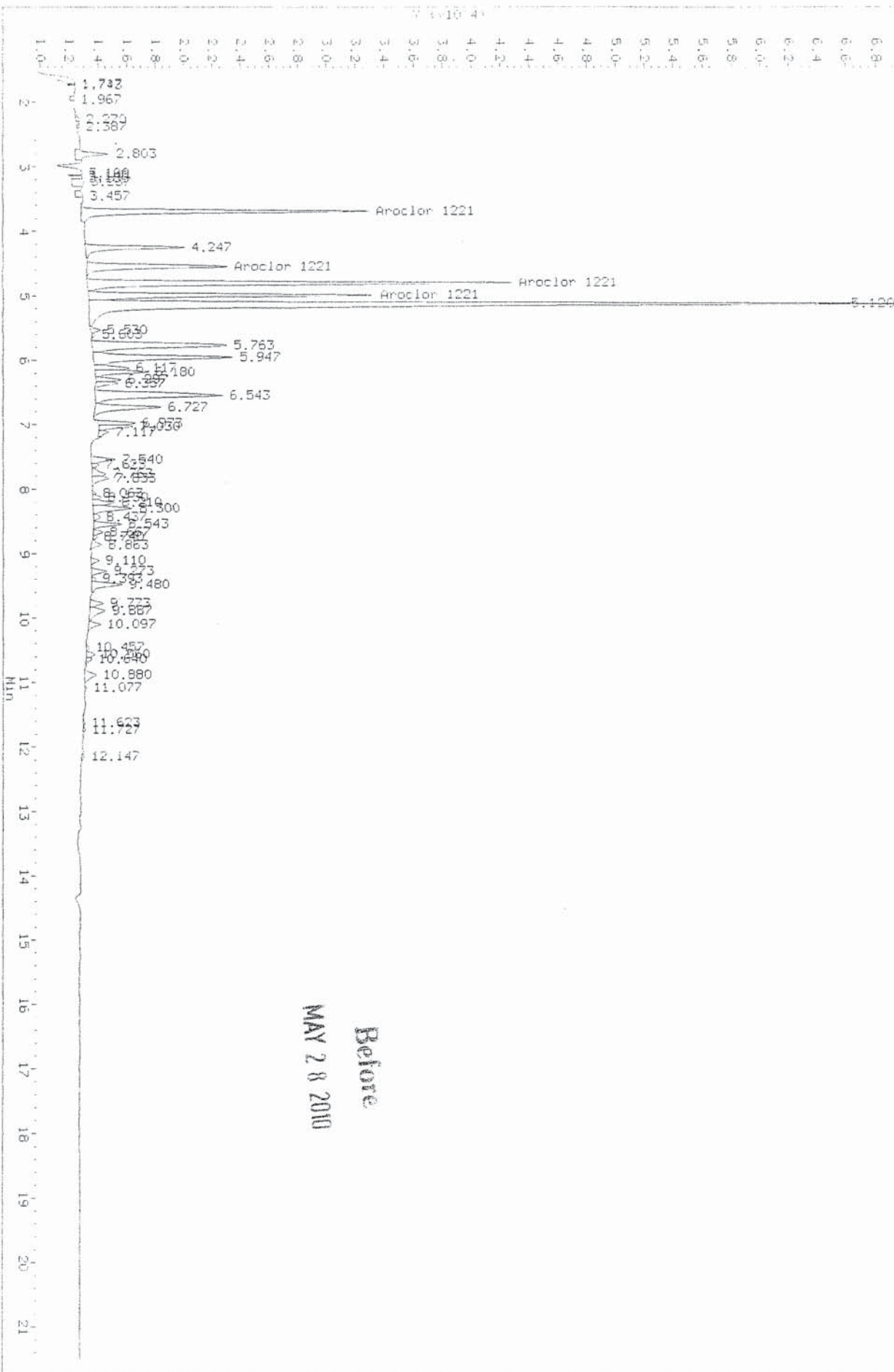
\CASH1\Acqudata\GC09\data\052710A_r.b\0527R053.D



LHarris
4/1/10

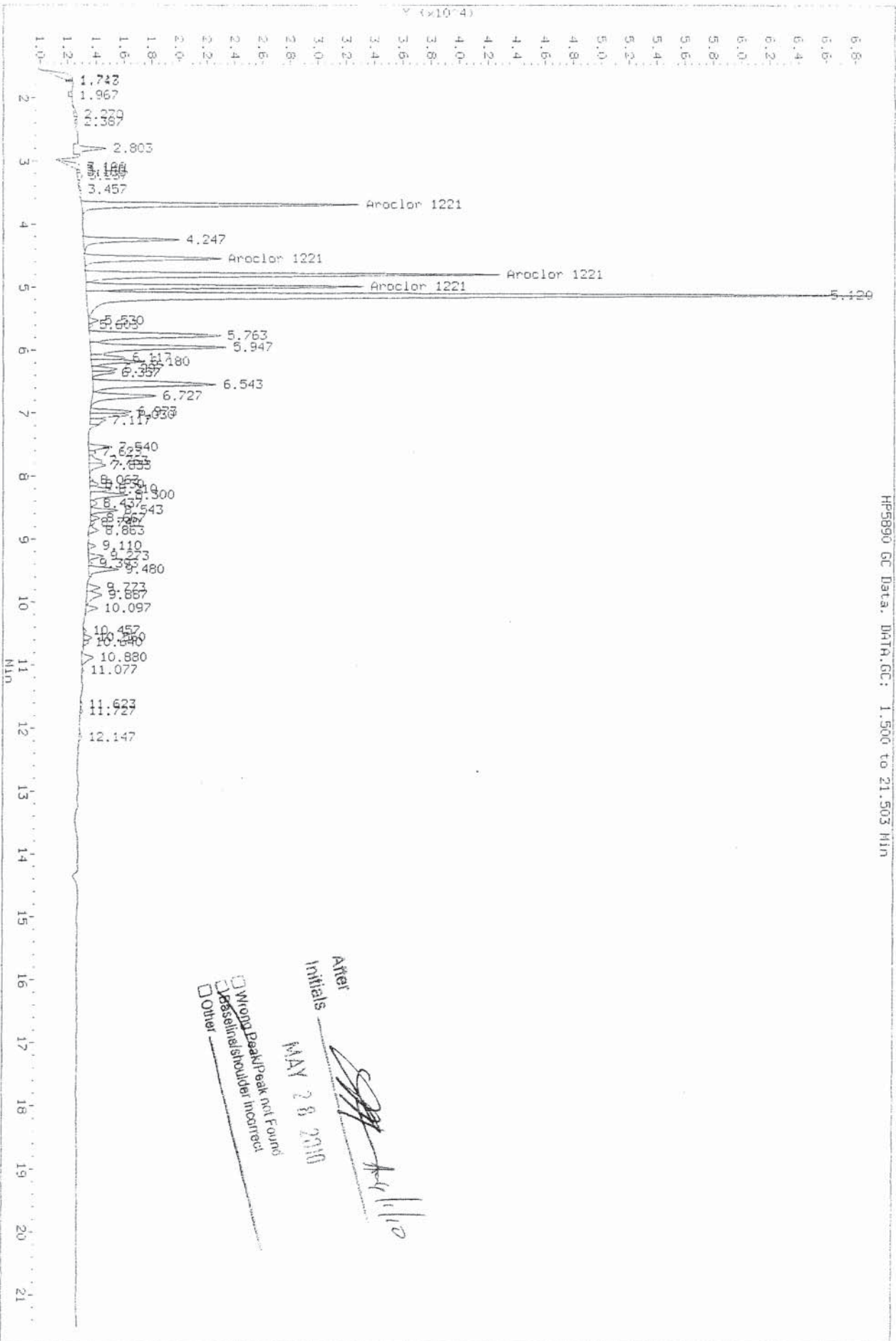
Data File: \\Caash1\Acqudata\GC09\data\052710A.B\0527053.D
Injection Date: 28-May-2010 13:21
Instrument: GC09.1
Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.503 MIN



Before
MAY 28 2010

Data File: \\Cash1\Acq\data\GC09\data\052710A_B\0527F053.D
 Injection Date: 28-May-2010 13:21
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data: DATA.GC: 1.500 to 21.503 Min

After: _____
 Initials: *[Signature]*
 MAY 28 2010
 Wrong Peak/Peak not Found
 Retention/shoulder incorrect
 Other _____

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F054.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R054.D
Inj Date : 28-MAY-2010 13:47
Sample Info: 1232 @ 1000ppb | PCB5-49F
Misc Info :
Cal Date : 28-MAY-2010 18:00
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	5.120	5.567	184400	151682	793	861	80.00- 120.00	100.00 (M)
	5.747	6.233	178916	60929	889	935	73.60- 110.40	97.03 (M)
	6.120	7.223	43415	125482	959	930	17.45- 26.18	23.54 (M)
	6.540	7.447	321246	74165	900	974	131.13- 196.70	174.21 (M)
	Average of Peak Amounts =				885	925		

QC Flag Legend

M - Compound response manually integrated.

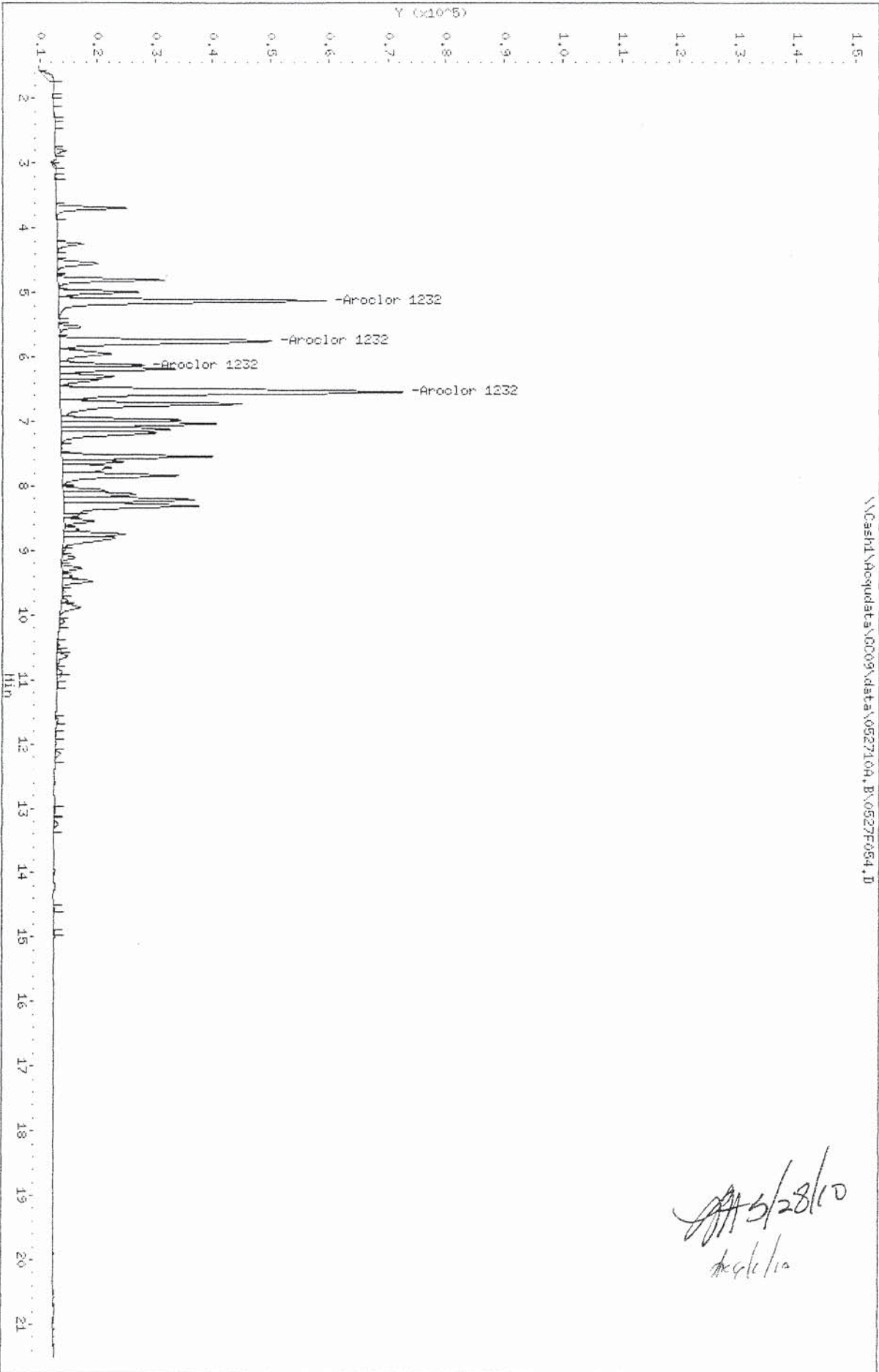
Handwritten signature and date:
MS/28/10
ACG/1/10

Data File: \\Cash1\Aoq\data\0009\data\052710A.B\0527F054.D
Date: 28-May-2010 13:47
Client ID:
Sample Info: 1232 @ 1000ppb | PCBs-49F
Column Phase: DB-35MS

Instrument: 0009.i
Operator: LHarris
Column diameter: 0.53

\\Cash1\Aoq\data\0009\data\052710A.B\0527F054.D

5/28/10
deglia



Data File: \\Gash1\Noqudata\GC09\data\v052710A_r.b\v0527R054.D

Date: 28-MAY-2010 13:47

Client ID:

Sample Info: 1232 @ 1000ppb | PCB5-49F

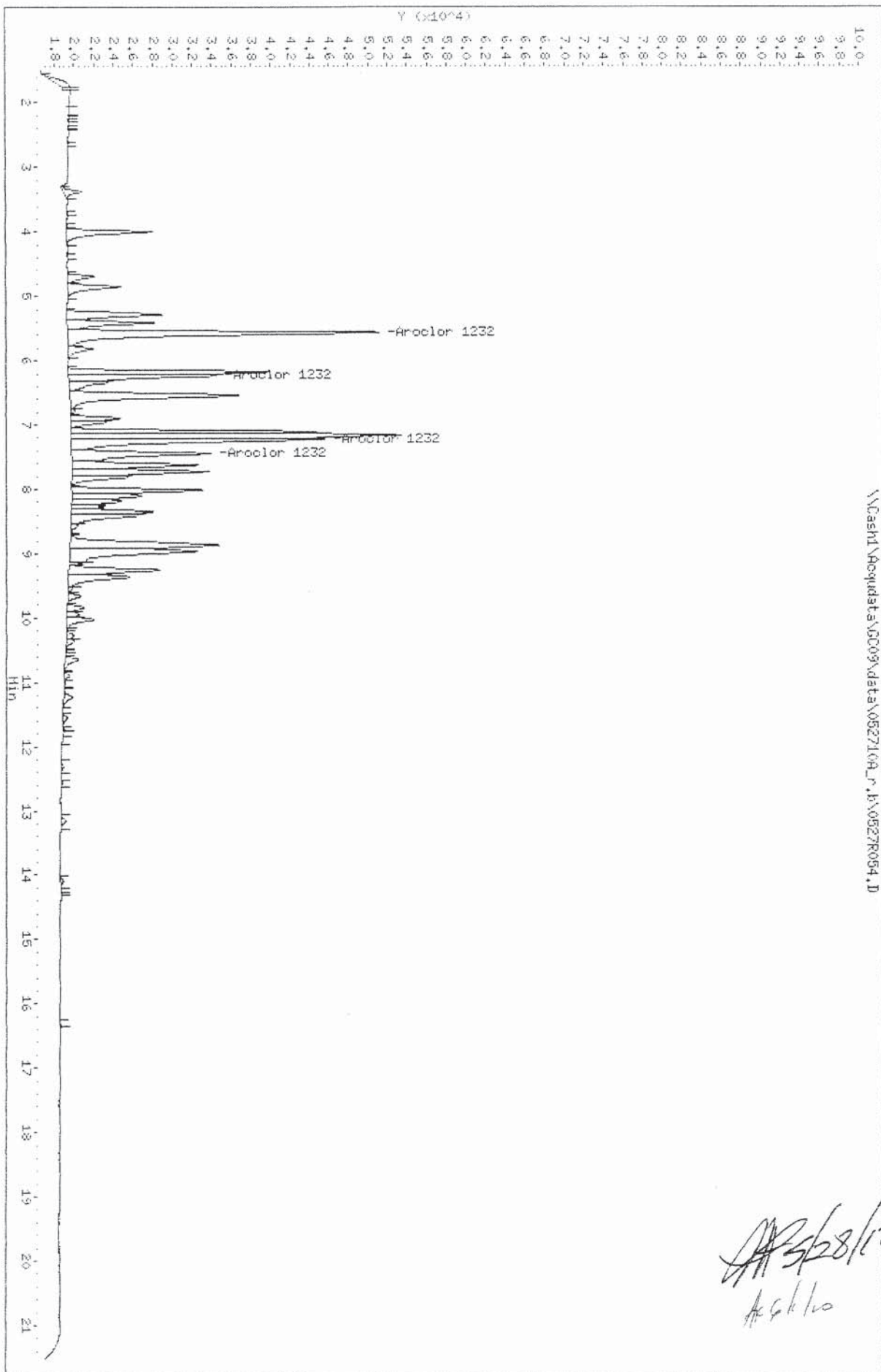
Column Phase: DB-MLB

Instrument: GC09.1

Operator: LHarris

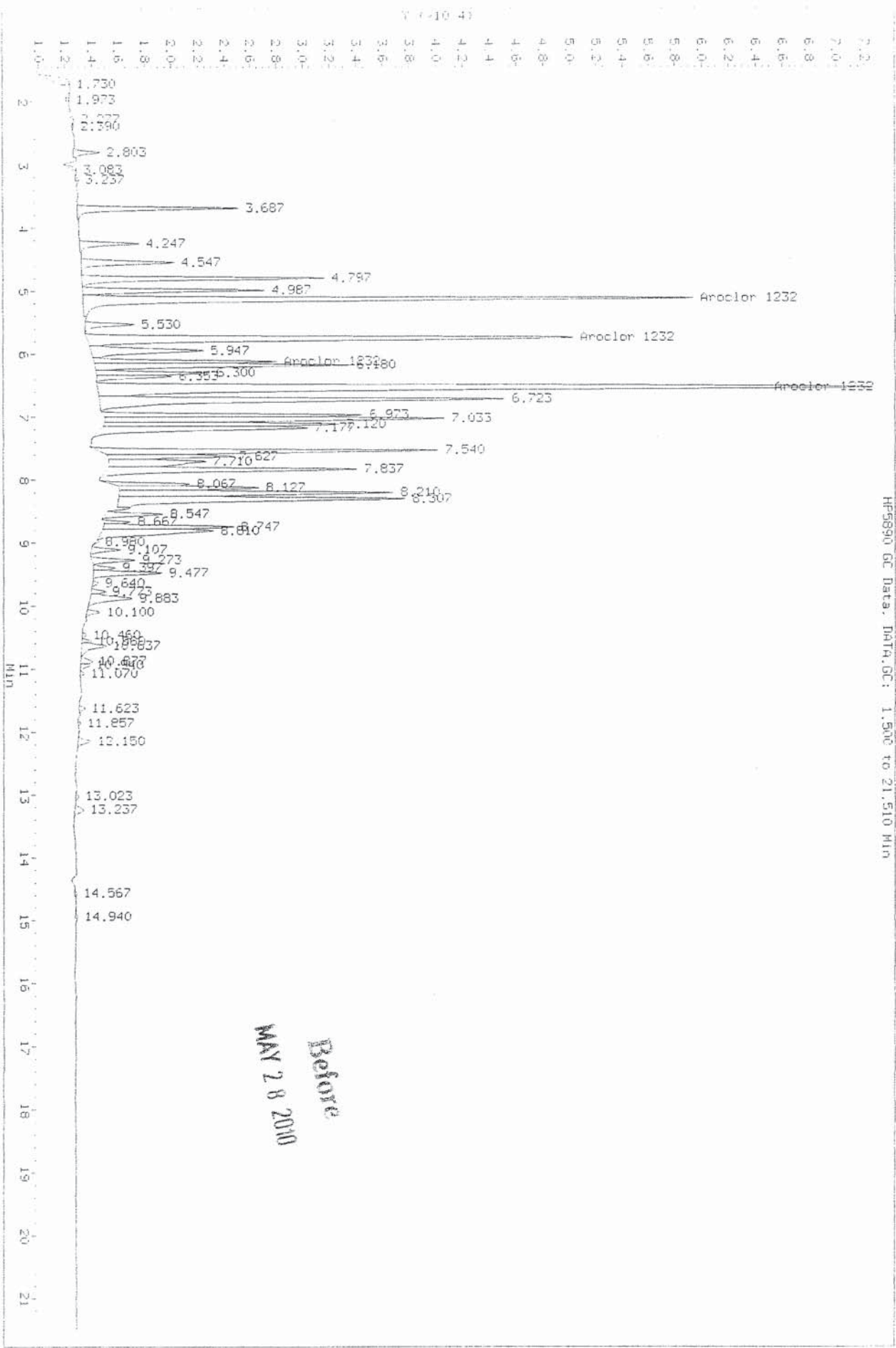
Column diameter: 0.53

\\Gash1\Noqudata\GC09\data\v052710A_r.b\v0527R054.D



Handwritten signature and date:
3/28/10
AGH/lo

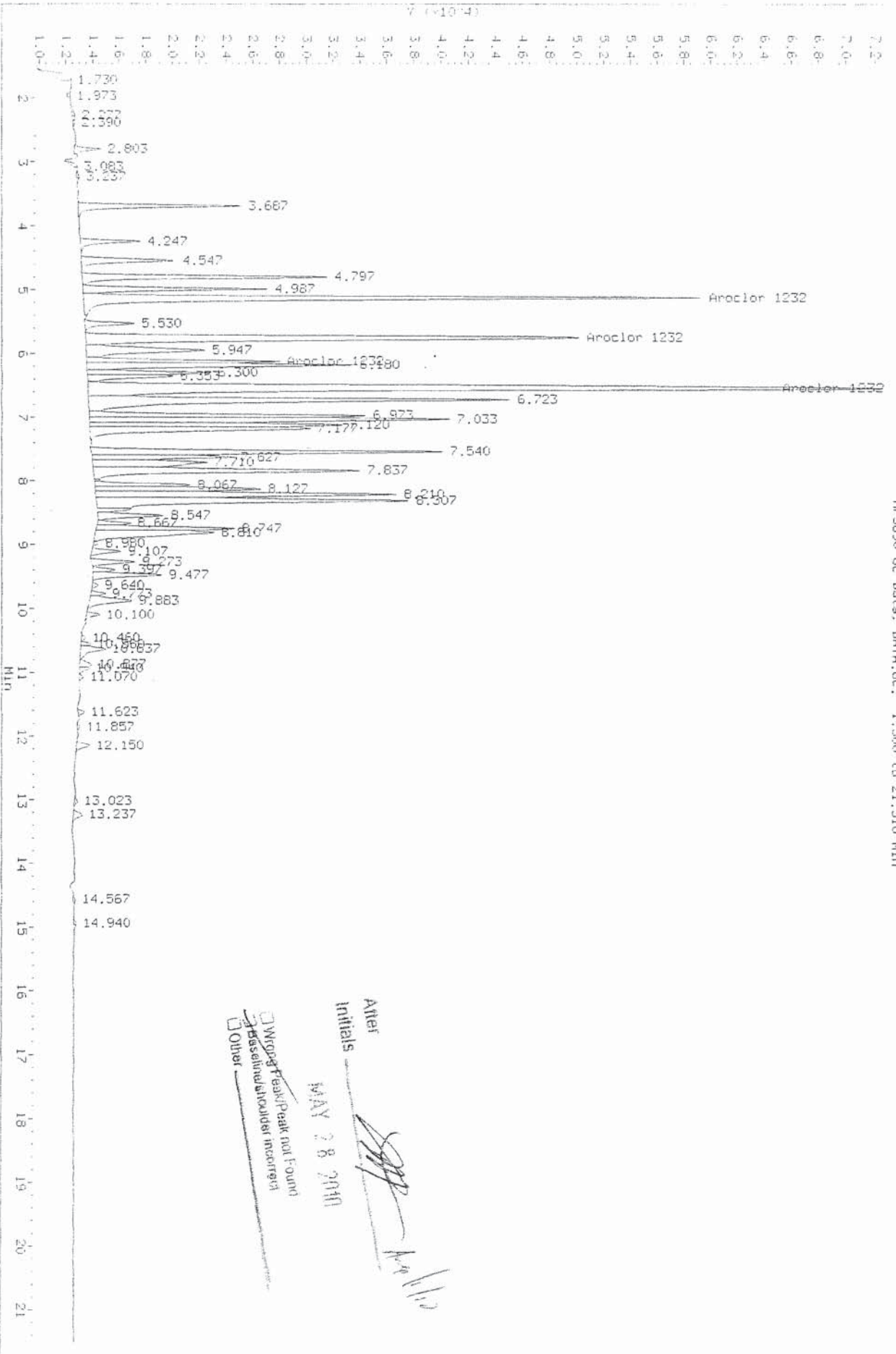
Data File: \\C:\eshi\vegdata\GC09\data\0527104.B\0527F054.D
 Injection Date: 28-MAY-2010 13:47
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min

Before
 MAY 28 2010

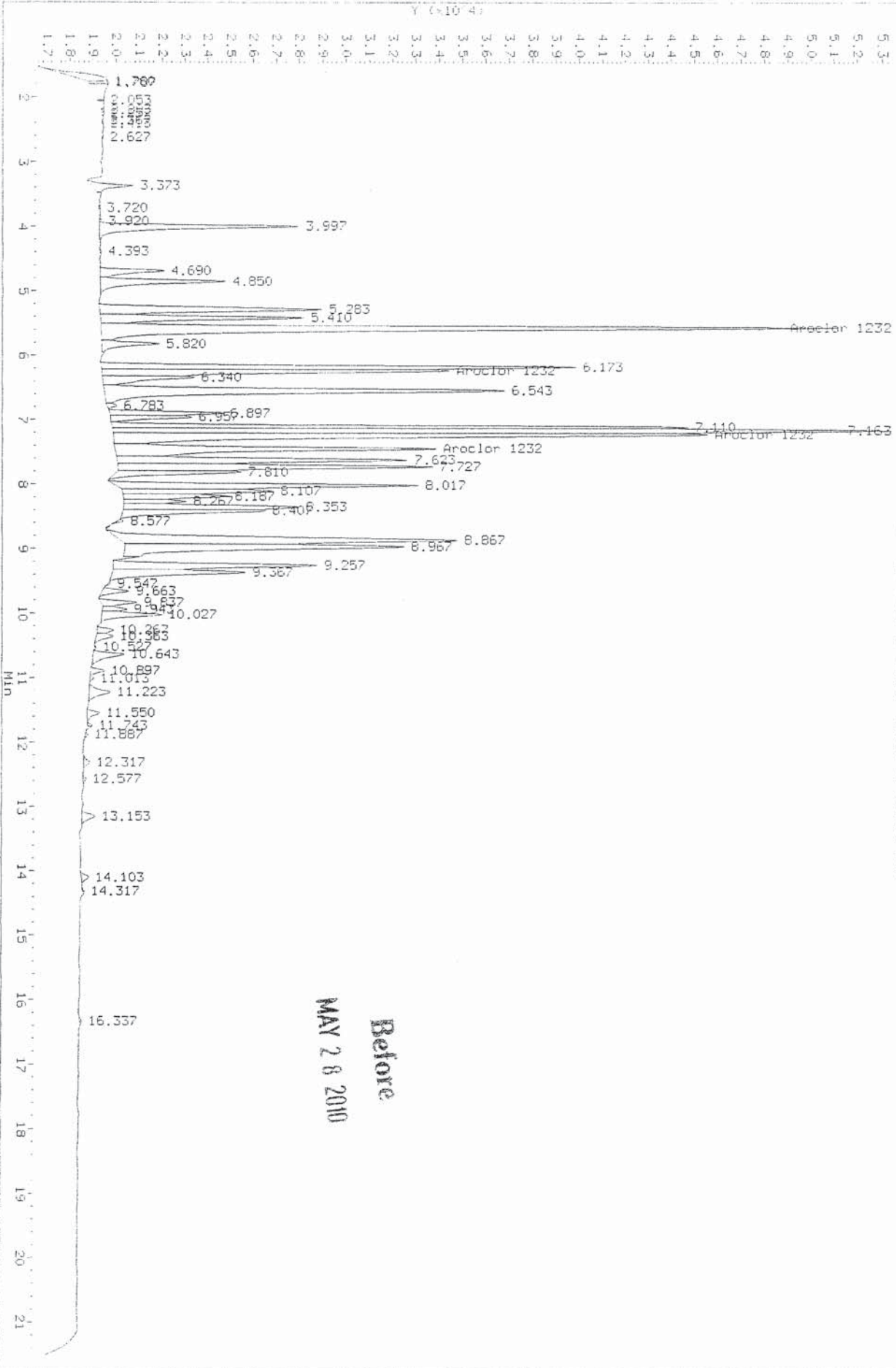
Data File: \\Casha1\Acq\data\GC09\data\062710A.B\06271054.D
 Injection Date: 28-MAY-2010 13:47
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min

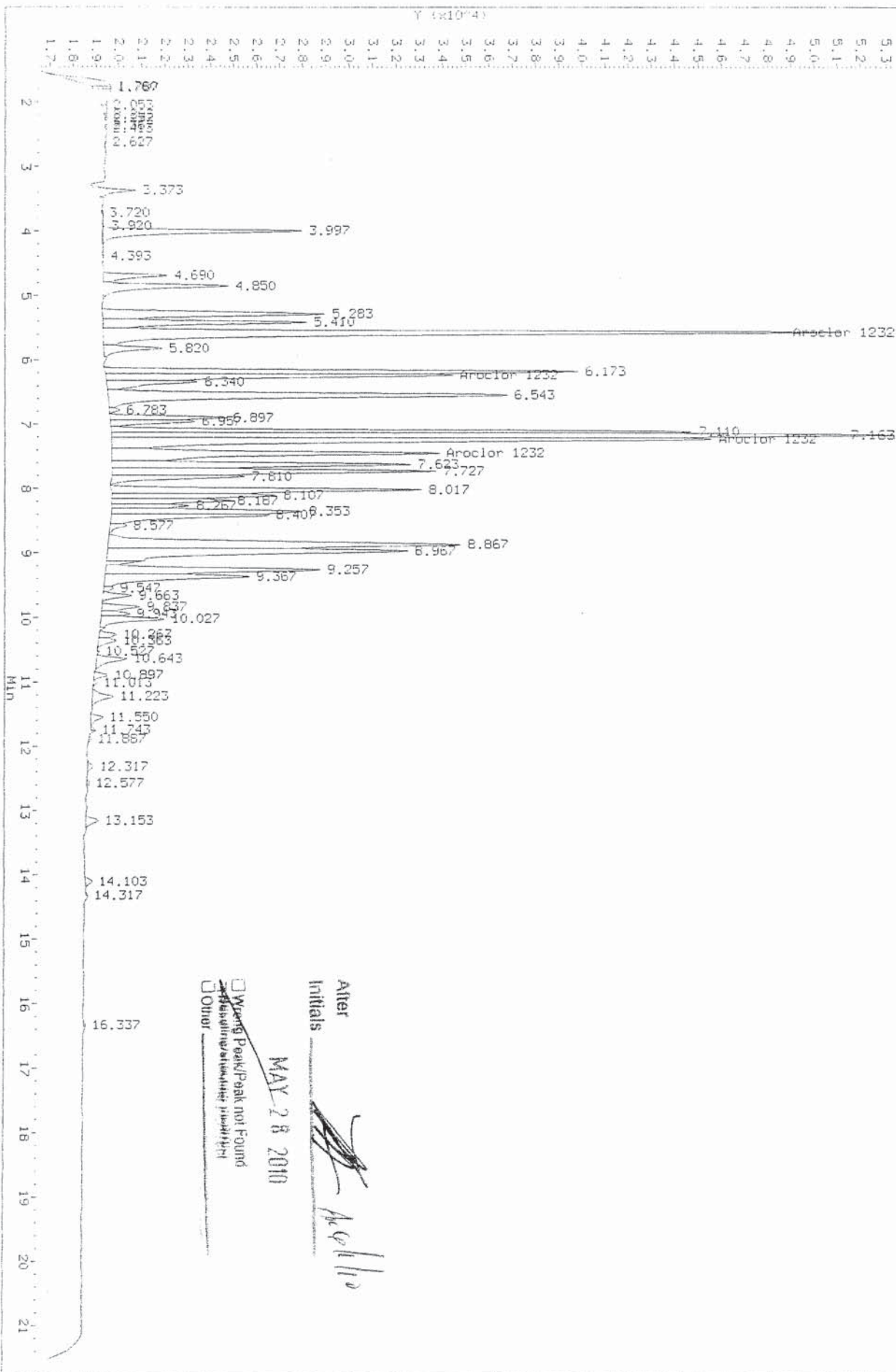
Arier
 Initials
 MAY 28 2010
 Wrong Peak not Found
 Residuals/under incorrect
 Other

HP5890 GC Data, Data.GC: 1.500 to 21.510 Min



Data File: \\Cash1\Acqudata\GC09\data\052710A.r.D\0527R054.D
 Injection Date: 28-May-2010 13:47
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min



Alter _____
 Initials *[Signature]*
 MAY 28 2010
 Wrong Peak/Peak not Found
 Peak/Retention time identified
 Other _____

Columbia Analytical Services

Sample #1 : \\Cash1\Acqdata\GC09\data\052710A.B\0527F055.D
Sample #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\0527R055.D
Inj Date : 28-MAY-2010 14:13
Sample Info: 1242 @ 1000ppb | PCB5-49G
Misc Info :
Cal Date : 28-MAY-2010 14:15
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqdata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	6.120	6.230	73732	104456	962	954	80.00- 120.00	100.00(M)
	6.540	6.543	550636	153844	902	955	727.90-1091.85	746.80(M)
	7.120	7.110	132541	121334	969	889	150.61- 225.91	179.76(M)
	7.540	7.623	181946	116852	918	1040	230.50- 345.75	246.77(M)
	7.837	7.727	174489	134745	936	1040	198.70- 298.04	236.65(M)
Average of Peak Amounts =					937	976		

QC Flag Legend

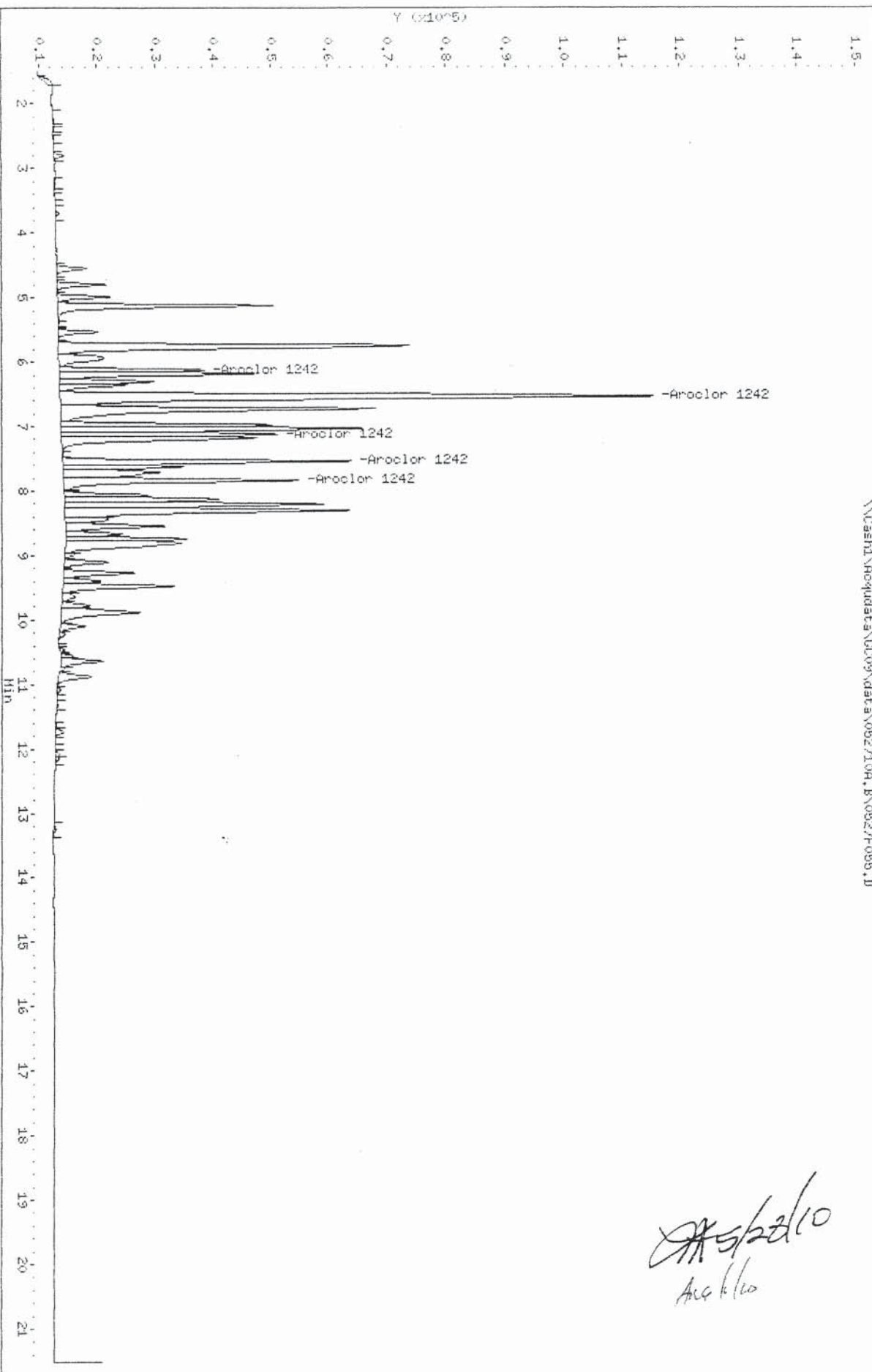
M - Compound response manually integrated.

Handwritten signature and date:
5/28/10
Aroclor 1242

Data File: \\Casha1\Apoquidat\GC09\data\052710A.B\0527F055.D
Date: 28-MAY-2010 14:13
Client ID:
Sample Info: 1242 @ 1000ppb | PCB5-49G
Column Phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

\\Casha1\Apoquidat\GC09\data\052710A.B\0527F055.D



Data File: \\CASH1\Acqudata\009\data\052710A.L.P\0527R055.D

Date : 28-MAY-2010 14:13

Client ID:

Sample Info: 1242 @ 1000ppb | PCBs-49C

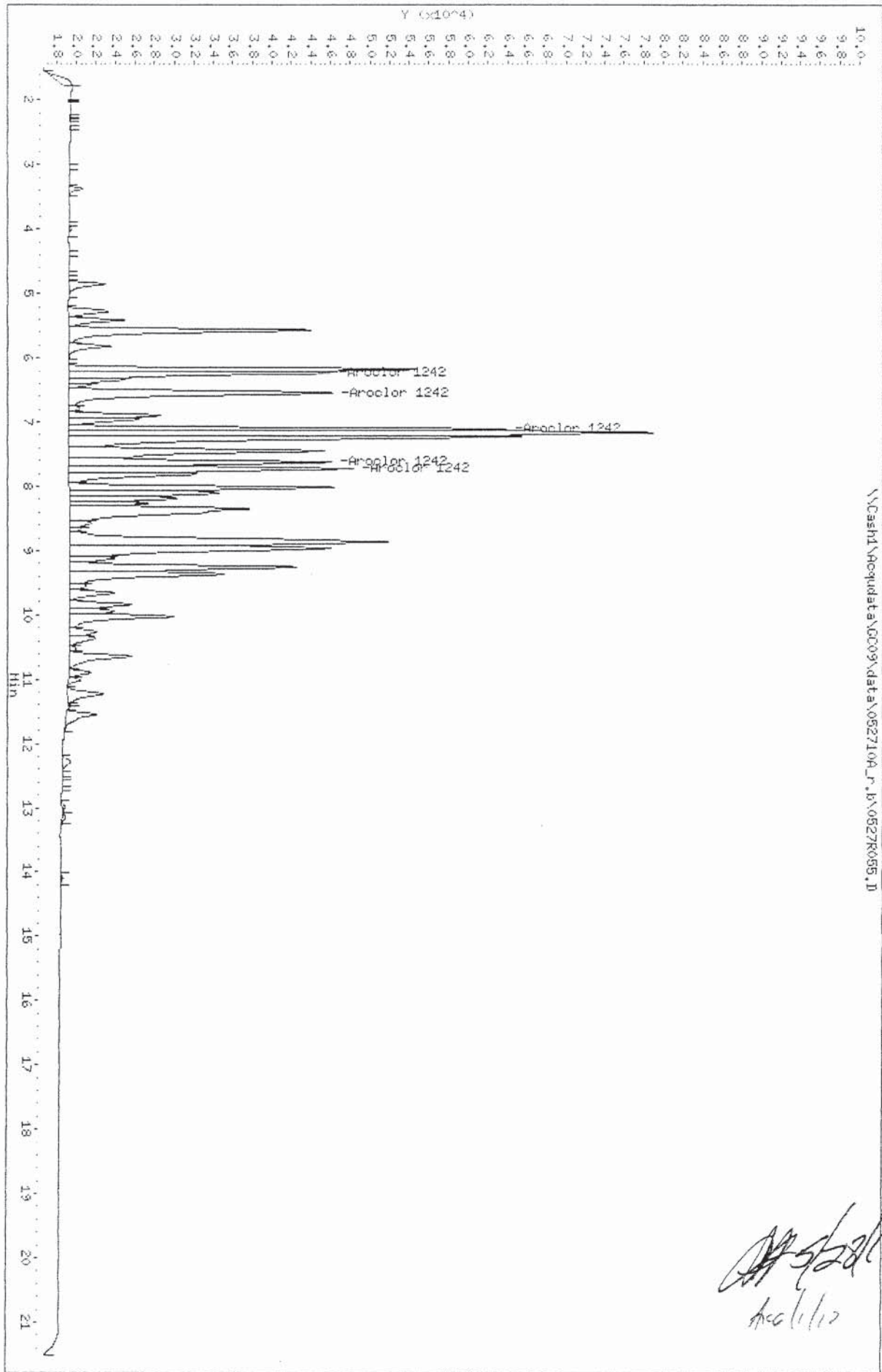
Column phase: DB-XLB

Instrument: 009.i

Operator: LHarris

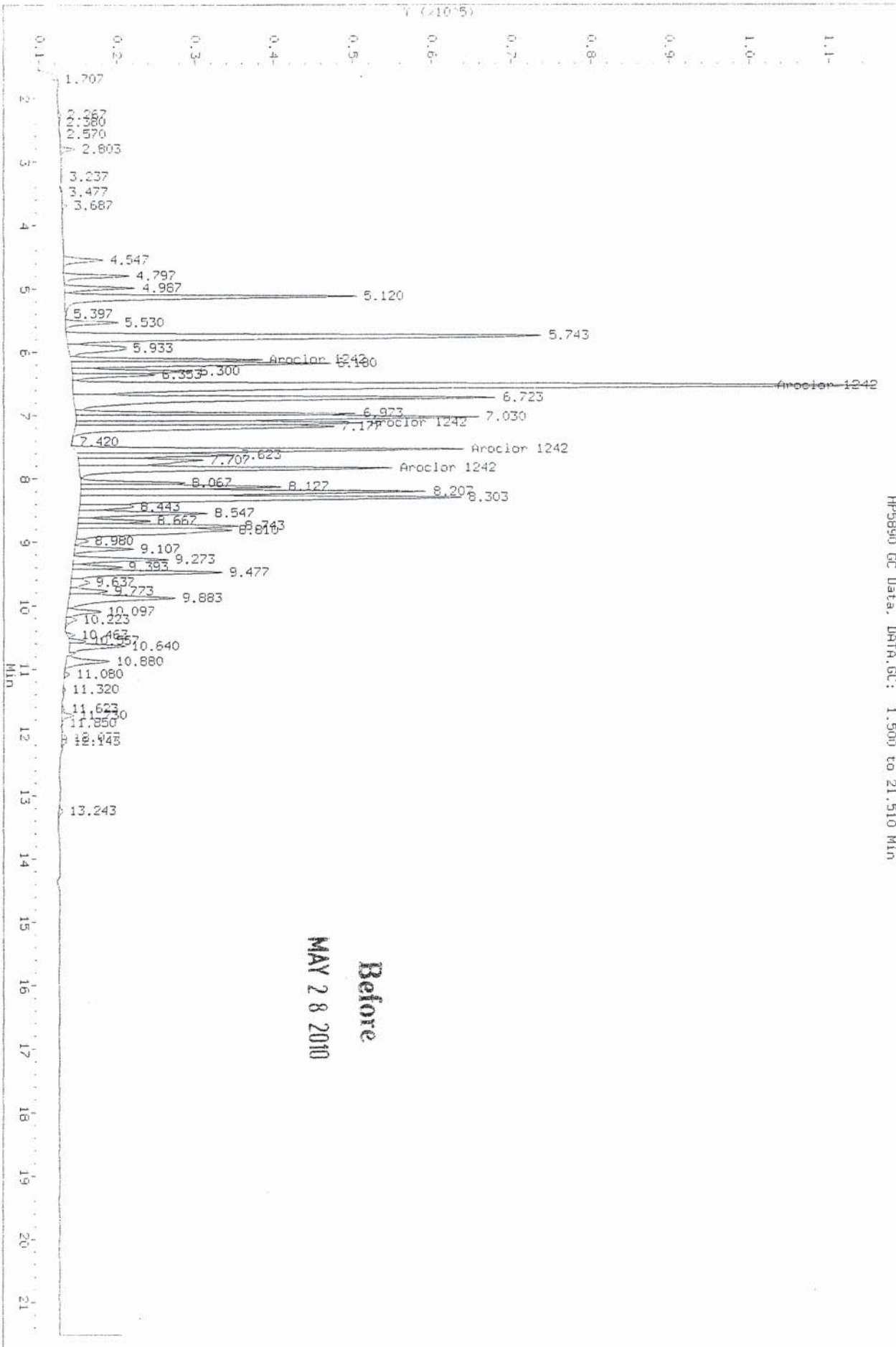
Column diameter: 0.53

\\CASH1\Acqudata\009\data\052710A.L.P\0527R055.D



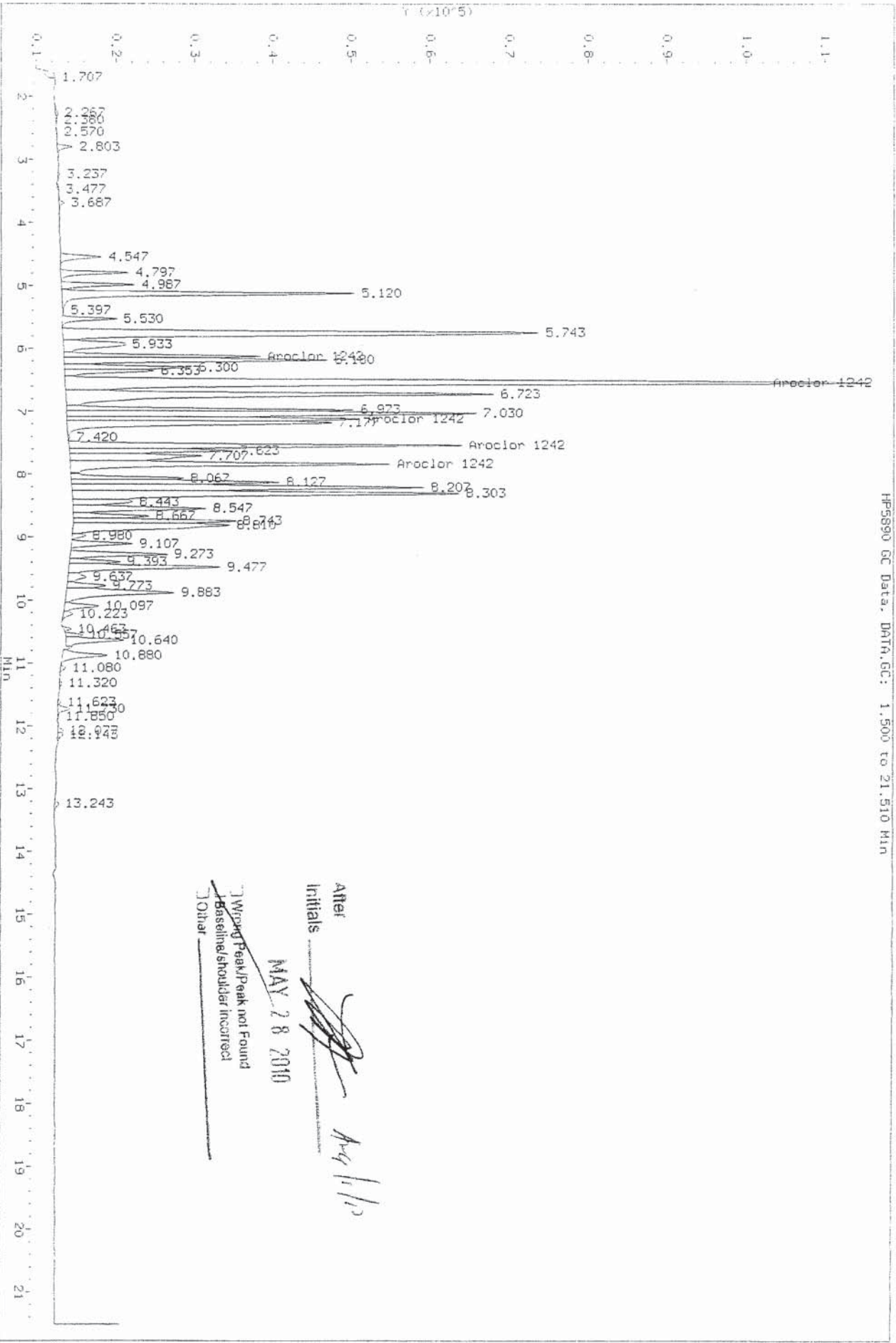
[Handwritten signature]
Aroclor 1242

Data File: \\Cash1\Acq\data\v0527104.B\0527104.B\0527104.D
 Injection Date: 28-MAY-2010 14:13
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min

Before
 MAY 28 2010



HP5890 GC Data. DATA.GC: 1.500 to 21.510 Min

After _____
 Initials _____
 MAY 28 2010
 Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____
 Aug 1/10

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F056.D
Report Date: 28-May-2010 17:31

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F056.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R056.D
Inj Date : 28-MAY-2010 14:39
Sample Info: 1248 @ 1000ppb | PCB5-49H
Misc Info :
Cal Date : 28-MAY-2010 14:15
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1248.SUB
Sub List #2 : AR1248.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	6.537	7.623	373368	178975	906	895	80.00- 120.00	100.00 (M)
	7.177	7.727	191888	181363	914	912	39.24- 58.85	51.39 (M)
	7.837	8.013	227914	181597	908	908	43.38- 65.07	61.04 (M)
	8.207	8.863	302327	331516	870	874	66.78- 100.17	80.97 (M)
	8.303	8.963	373583	242584	881	882	84.10- 126.14	100.06 (M)
	Average of Peak Amounts =				896	894		

QC Flag Legend

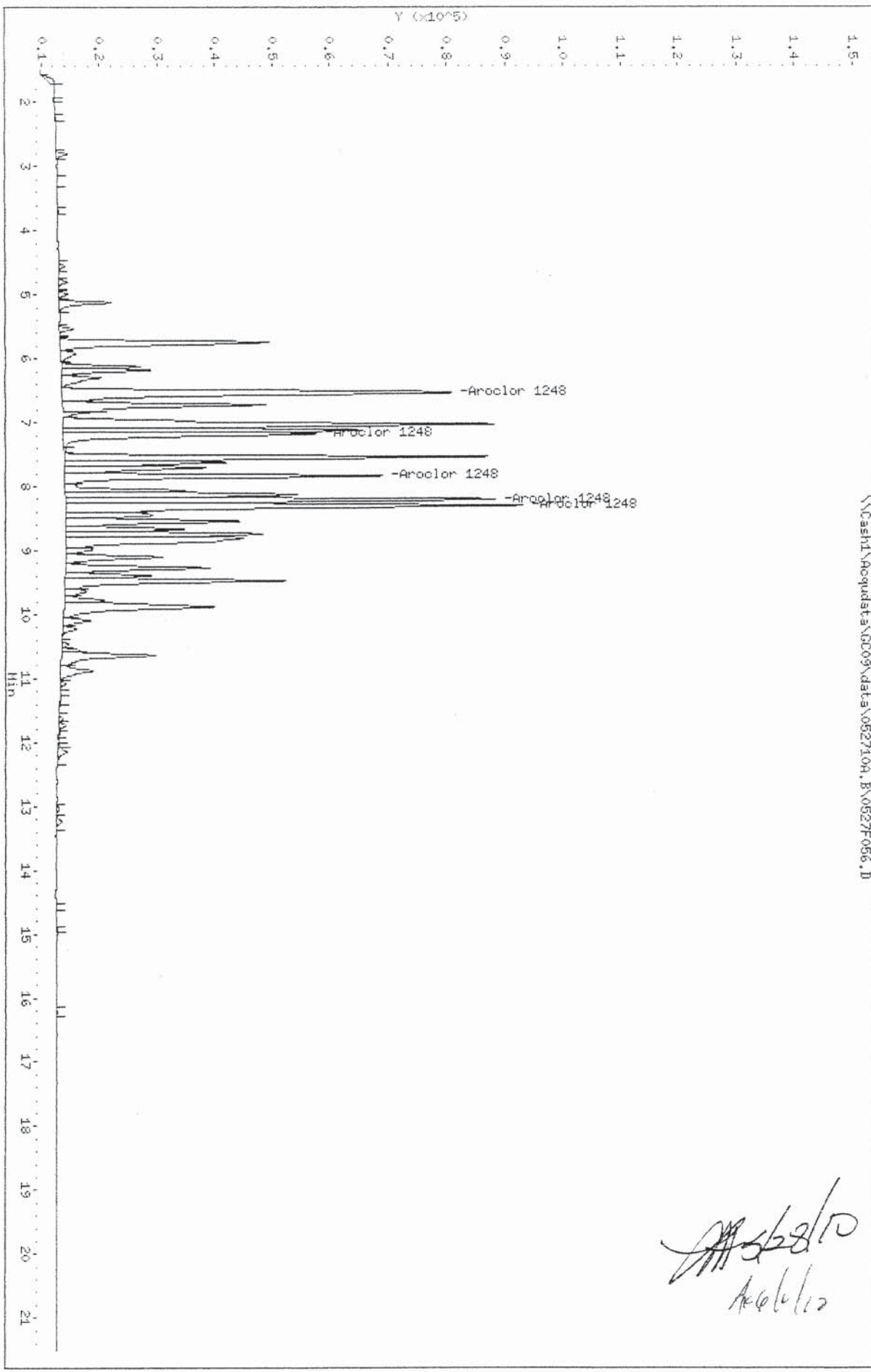
M - Compound response manually integrated.

AS/28/10
4/6/10

Data File: \\Casha1\Aoqudata\GC09\data\052710A_B\0527F056.D
Date: 28-MAY-2010 14:39
Client ID:
Sample Info: 1248 @ 1000ppb | PCBs-49H
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

\\Casha1\Aoqudata\GC09\data\052710A_B\0527F056.D

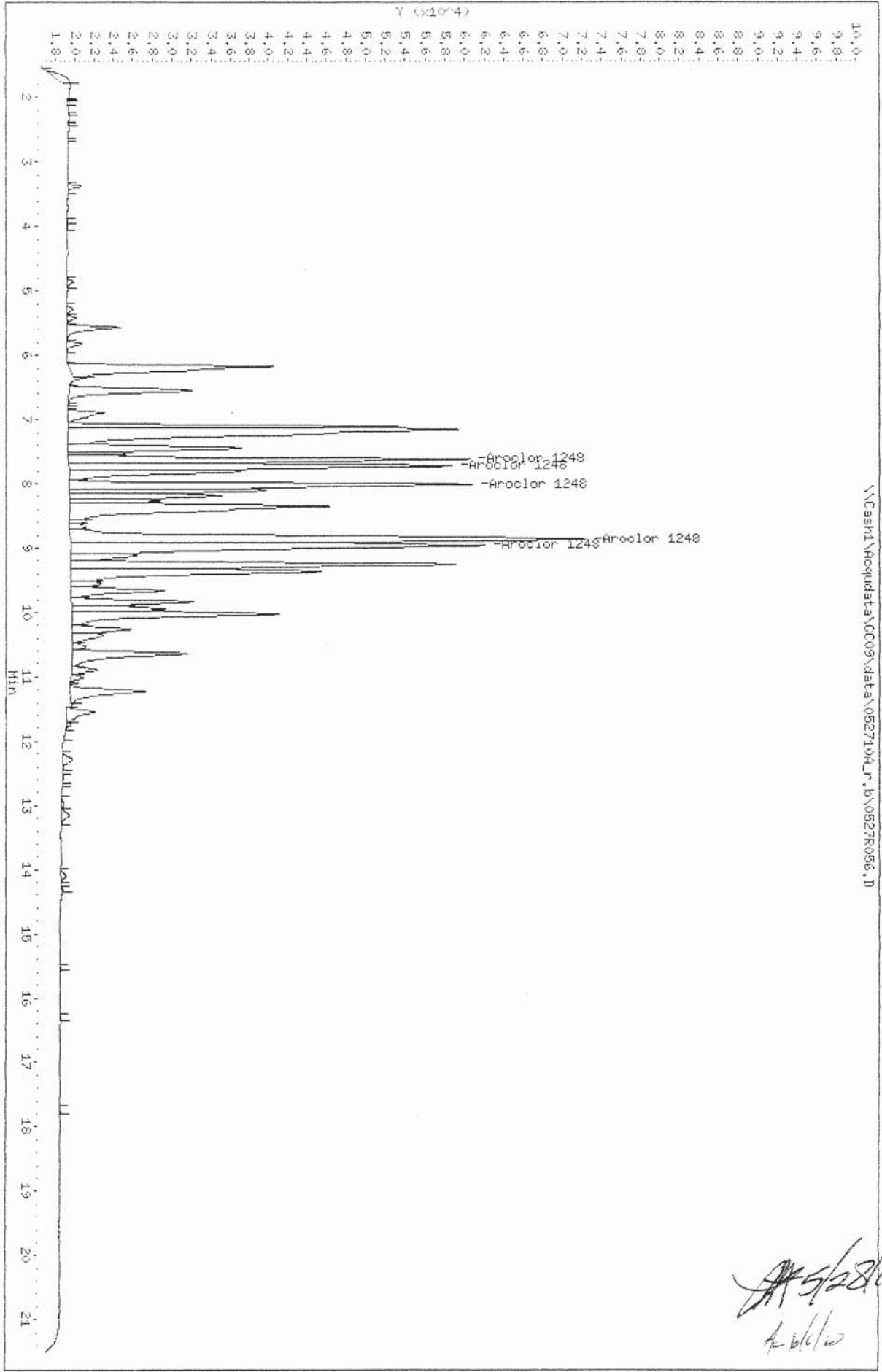


[Handwritten signature]
Aroclor

Data File: \\Cash1\hpc\data\GC09\data\052710A_L1.B\0527R056.D
Date: 28-MAY-2010 14:39
Client ID:
Sample Info: 1248 @ 100ppm | PCBs-43H
Column phase: DB-MLB

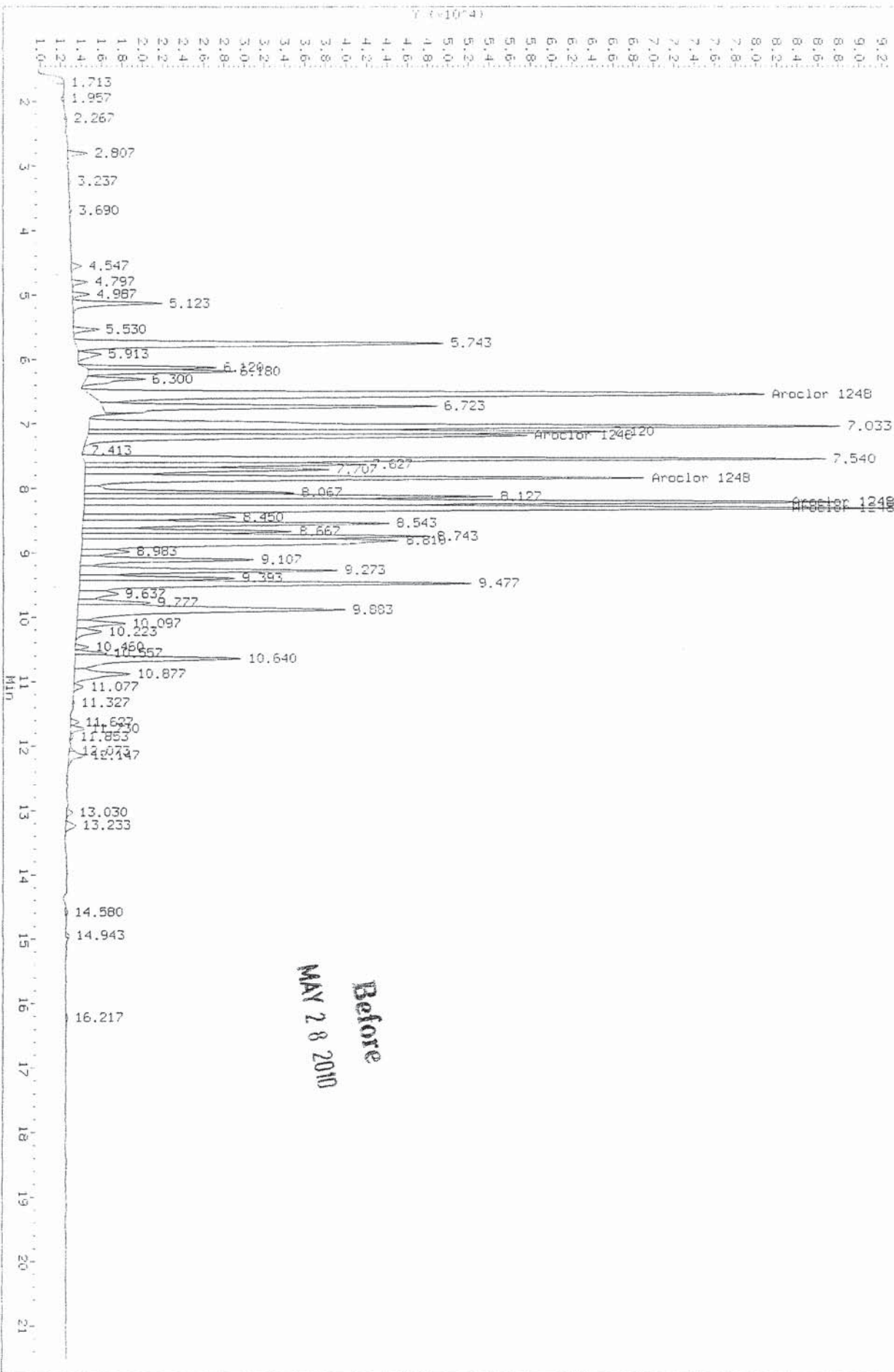
Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

\\Cash1\hpc\data\GC09\data\052710A_L1.B\0527R056.D



Handwritten signature and date: 5/28/10

Data File: \\Castl\PC\data\GC09\data\052710A.B\05271056.D
 Injection Date: 28-May-2010 14:39
 Instrument: GC09.1
 Client Sample ID:

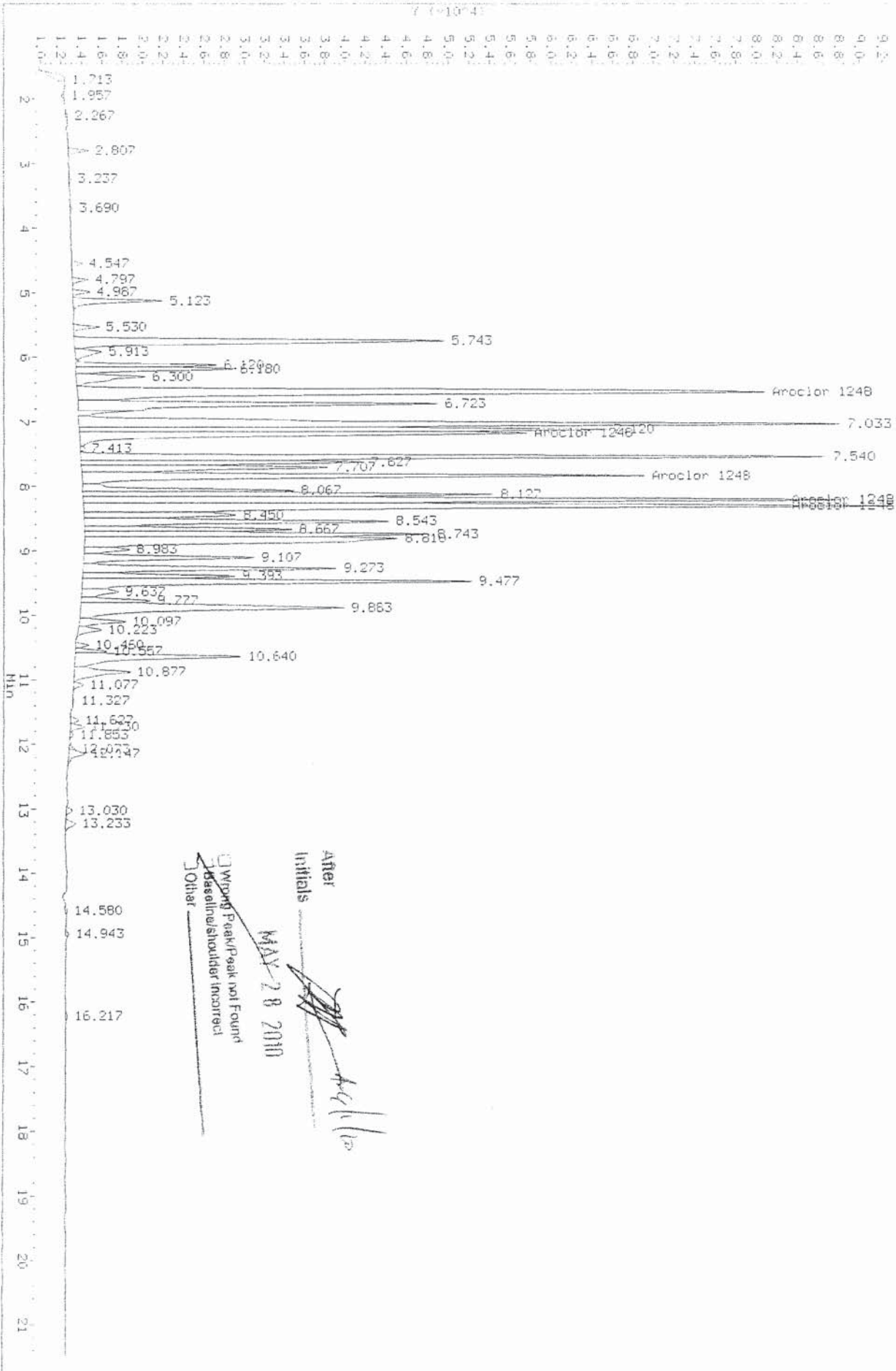


HP6890 GC Data, DATA.GC: 1.500 to 21.503 Min

Before
 MAY 28 2010

Data File: \\Cash1\ncogdata\GC09\data\0527104.B\0527F056.D
 Injection Date: 28-May-2010 14:39
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data: DATA.GC: 1.500 to 21.503 Min



After Initials: *[Signature]*
 MAY 28 2010
 Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F057.D
Report Date: 28-May-2010 17:31

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F057.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R057.D
Inj Date : 28-MAY-2010 15:05
Sample Info: 1254 @ 1000ppb | PCB5-53K
Misc Info :
Cal Date : 28-MAY-2010 14:15
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	8.543	9.250	338913	303655	839	790	80.00- 120.00	100.00
	9.273	9.833	238260	146943	849	834	61.91- 92.86	70.30
	9.477	10.023	473764	295305	825	826	116.61- 174.92	139.79
	9.883	10.367	399146	159259	858	990	101.15- 151.73	117.77
	10.097	10.637	248633	259604	1000	826	53.30- 79.94	73.36
			Average of Peak Amounts =		874	853		

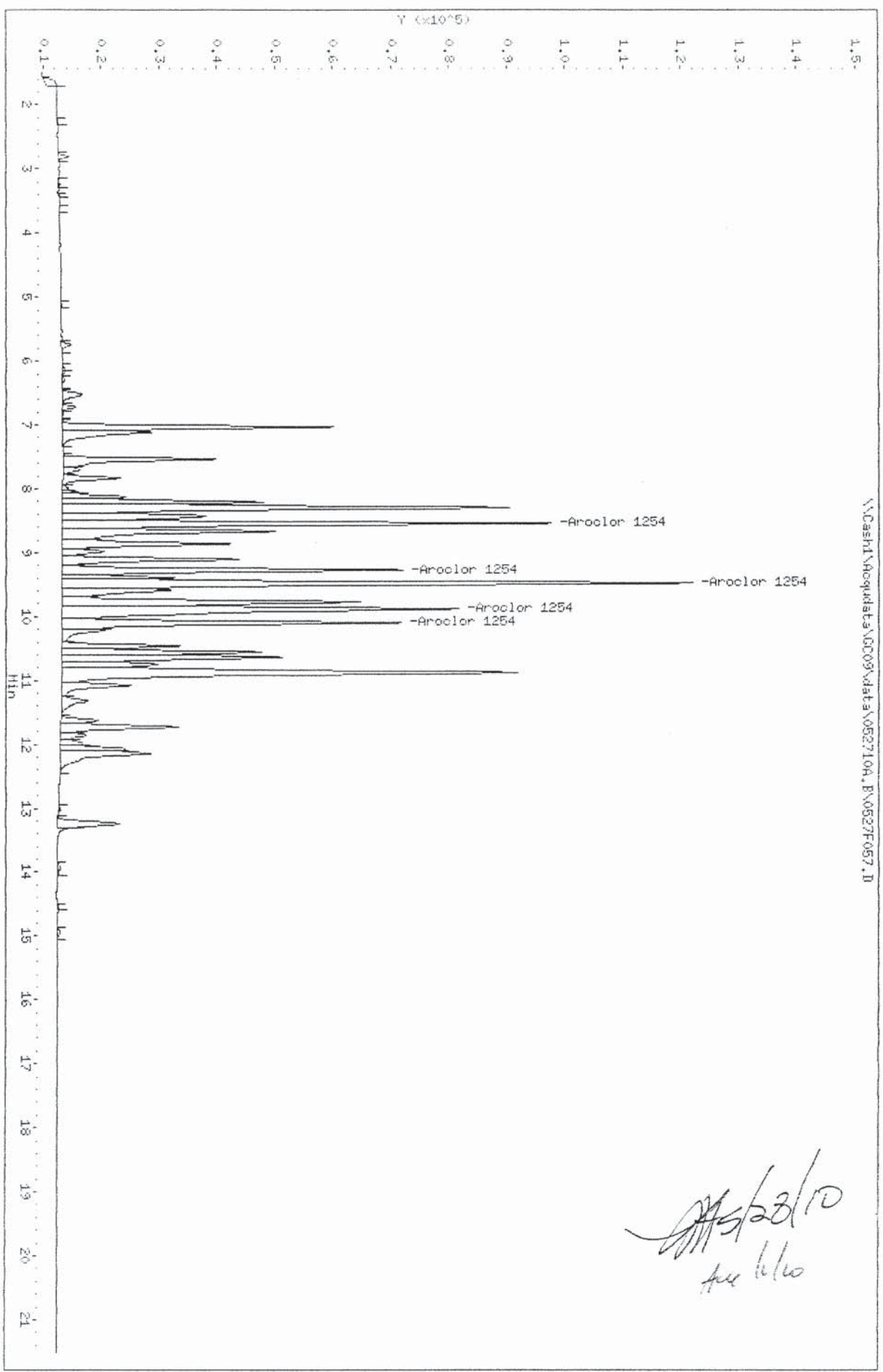


Handwritten signature and date: 5/28/10

Data File: \\Cashd\hooq\data\0009\data\062710A.F\0627F057.D
Date: 28-May-2010 15:05
Client ID:
Sample Info: 1254 @ 1000ppb | P055-53K
Column phase: DB-35MS

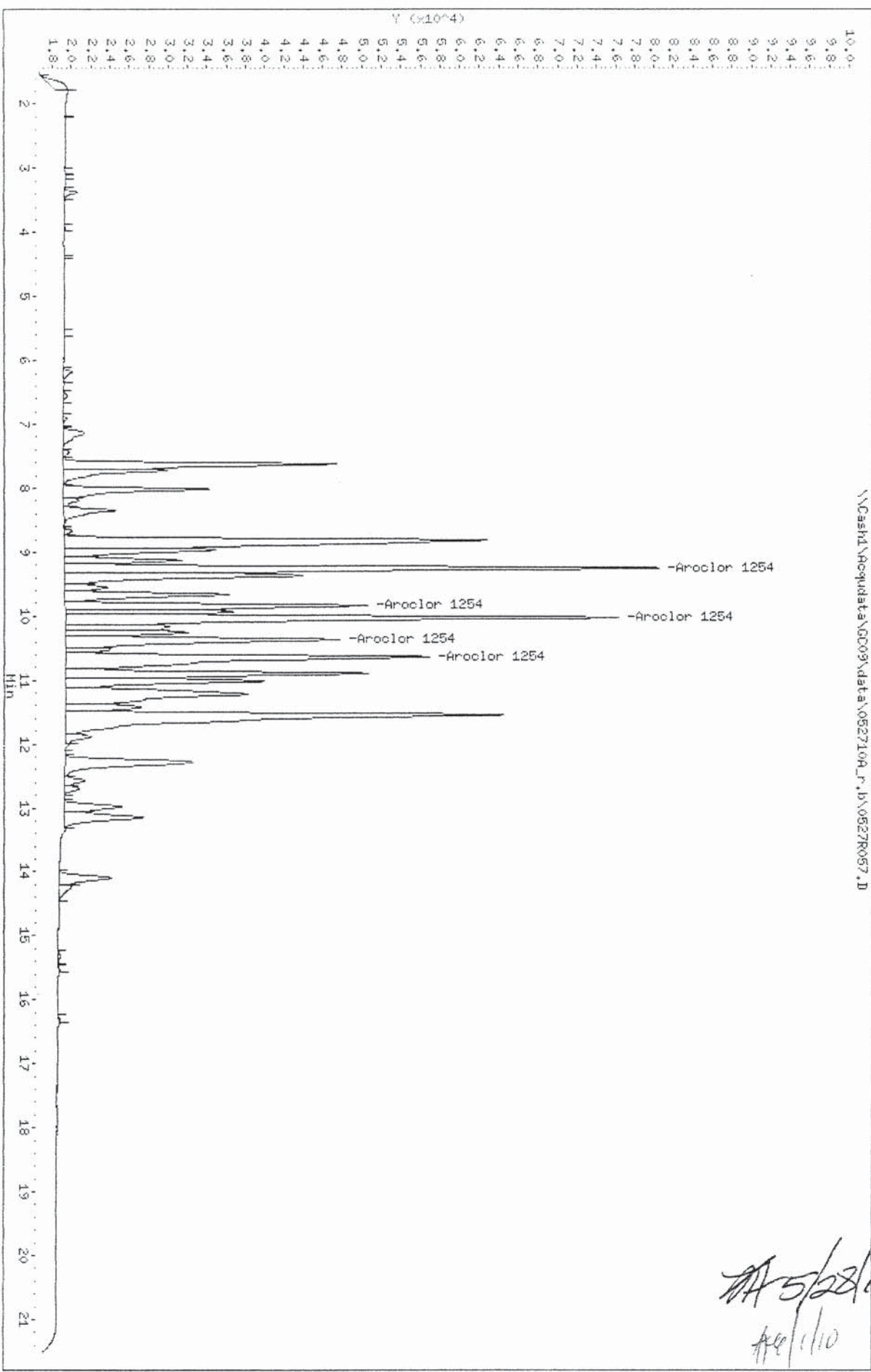
Instrument: GC09.1
Operator: L.Harris
Column diameter: 0.53

\\Cashd\hooq\data\0009\data\062710A.F\0627F057.D



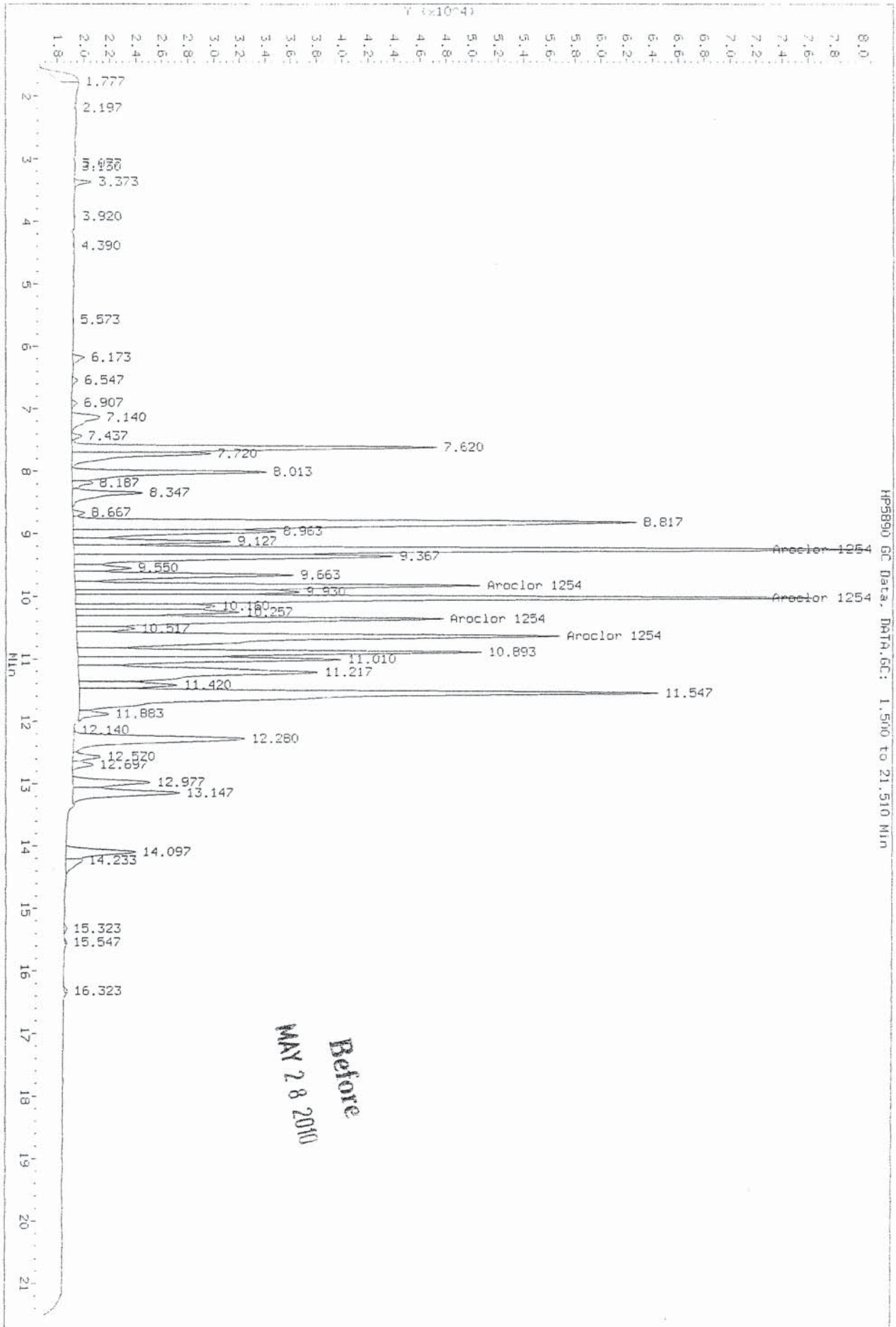
Handwritten signature and date:
5/23/10
L.Harris

Data File: \\CASH1\Proqudata\GC09\data\052710A_r.j\0527R057.D
 Date: 28-MAY-2010 15:05
 Client ID:
 Sample Info: 1254 @ 1000ppb | PCB5-53K
 Column phase: DB-XLB
 Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53



Handwritten signature: AA 5/28/10
Handwritten signature: Hec/1/10

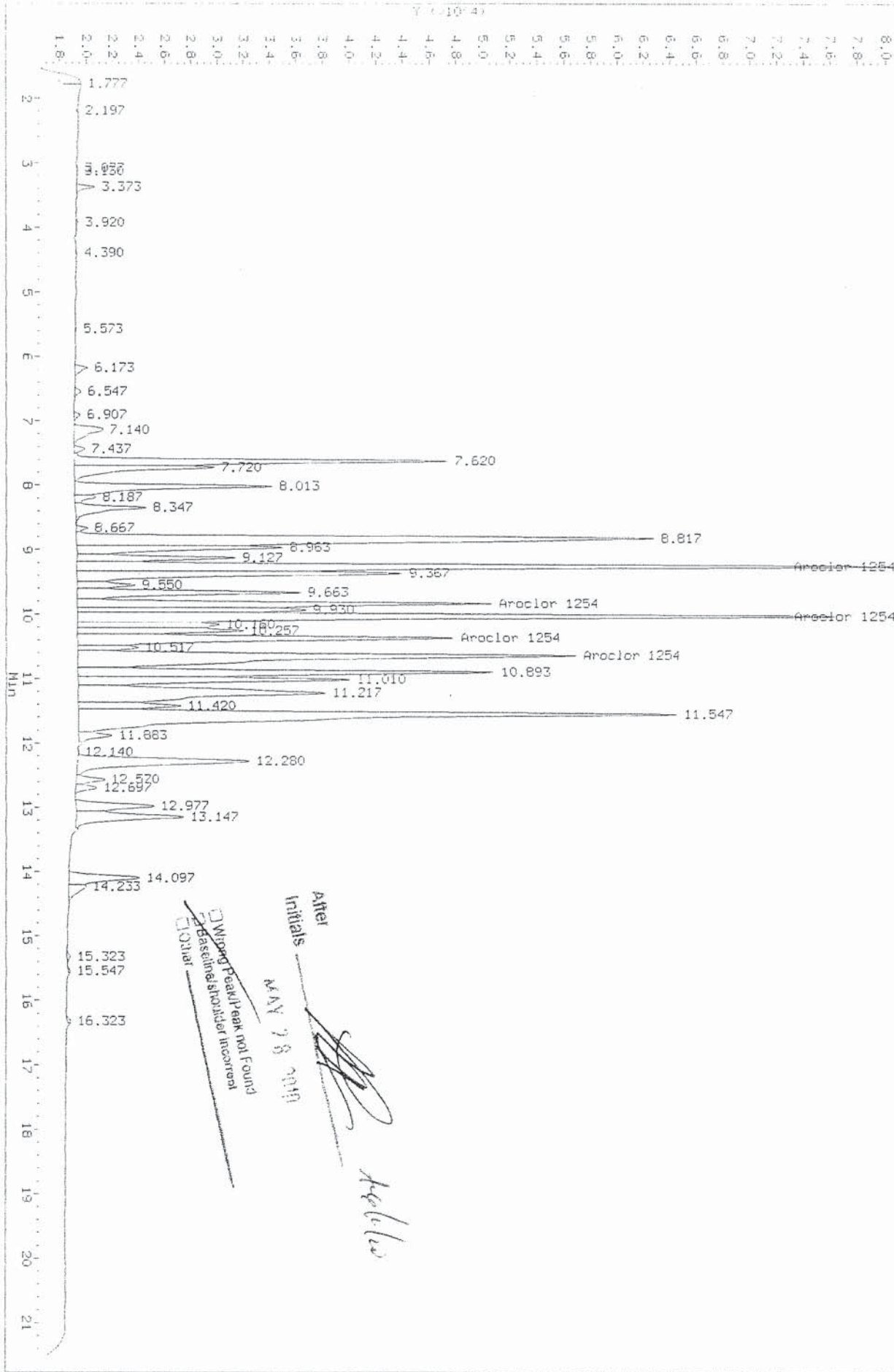
Data File: \\Casha1\Acqudata\GC09\data\0527100_r.p\05278057.D
Injection Date: 28-May-2010 15:05
Instrument: GC09.1
Client Sample ID:



Before
MAY 28 2010

Data File: \\Cash1\pecdata\GC09\data\052710A_r_b\0527R057.D
 Injection Date: 28-May-2010 15:05
 Instrument: GC09.1
 Client Sample ID:

HF5890 GC Data: DATA.GC: 1.500 to 21.510 Min



Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F058.D
Report Date: 28-May-2010 17:31

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F058.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R058.D
Inj Date : 28-MAY-2010 15:31
Sample Info: 1260 @ 1000ppb | PCB5-49I
Misc Info :
Cal Date : 28-MAY-2010 14:15
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	9.490	10.363	286956	280458	949	1010	80.00- 120.00	100.00 (M)
	9.770	10.893	376991	291710	1020	983	99.64- 149.46	131.38 (M)
	10.093	11.547	450202	338687	994	910	122.12- 183.18	156.89 (M)
	10.873	12.313	374032	281950	863	1200	109.38- 164.06	130.34 (M)
	12.143	13.150	671293	505893	1180	1150	135.68- 203.52	243.84 (M)
			Average of Peak Amounts =		1000	1050		

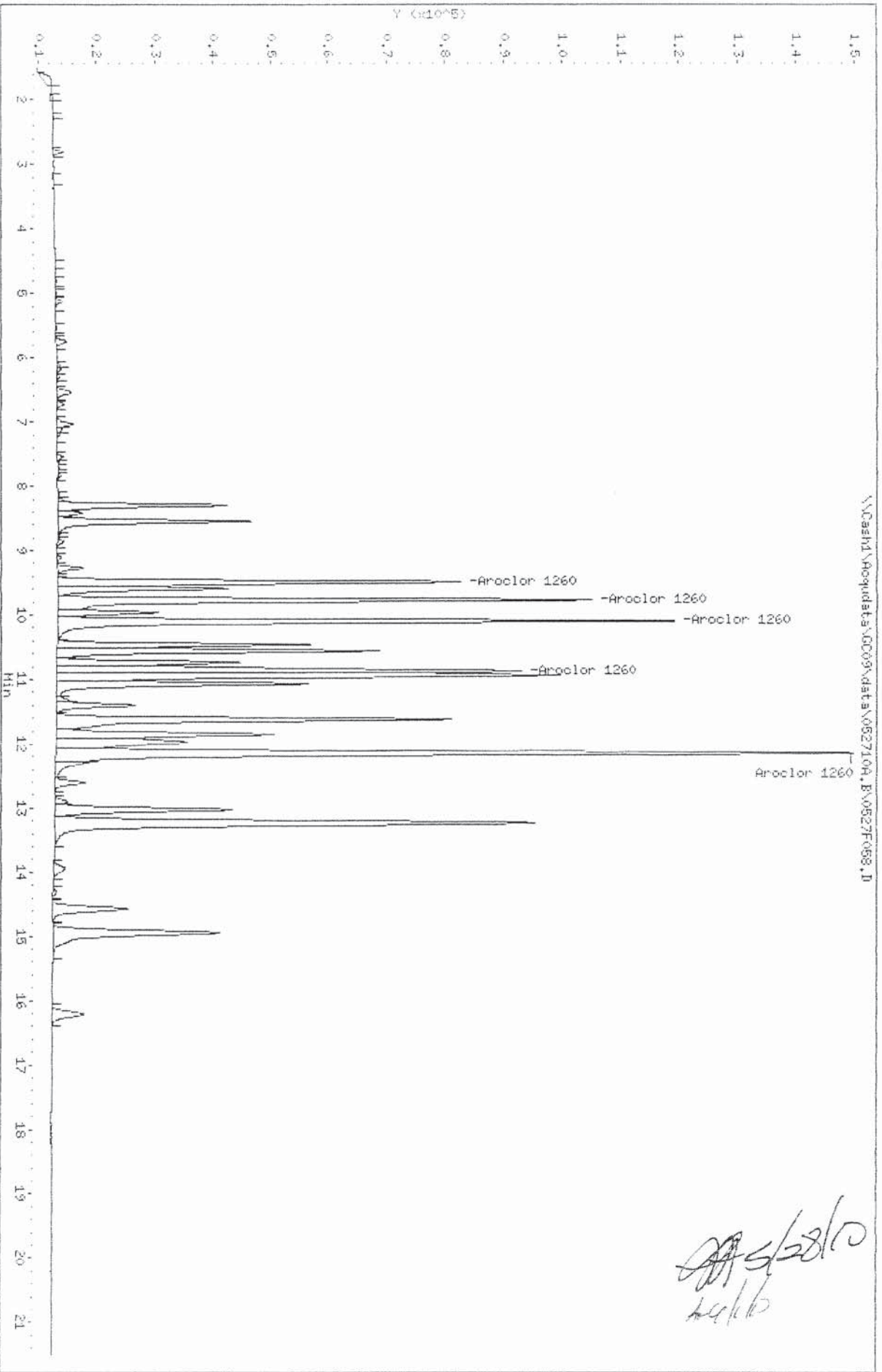
QC Flag Legend

M - Compound response manually integrated.

Handwritten signature
5/28/10
10/1/10

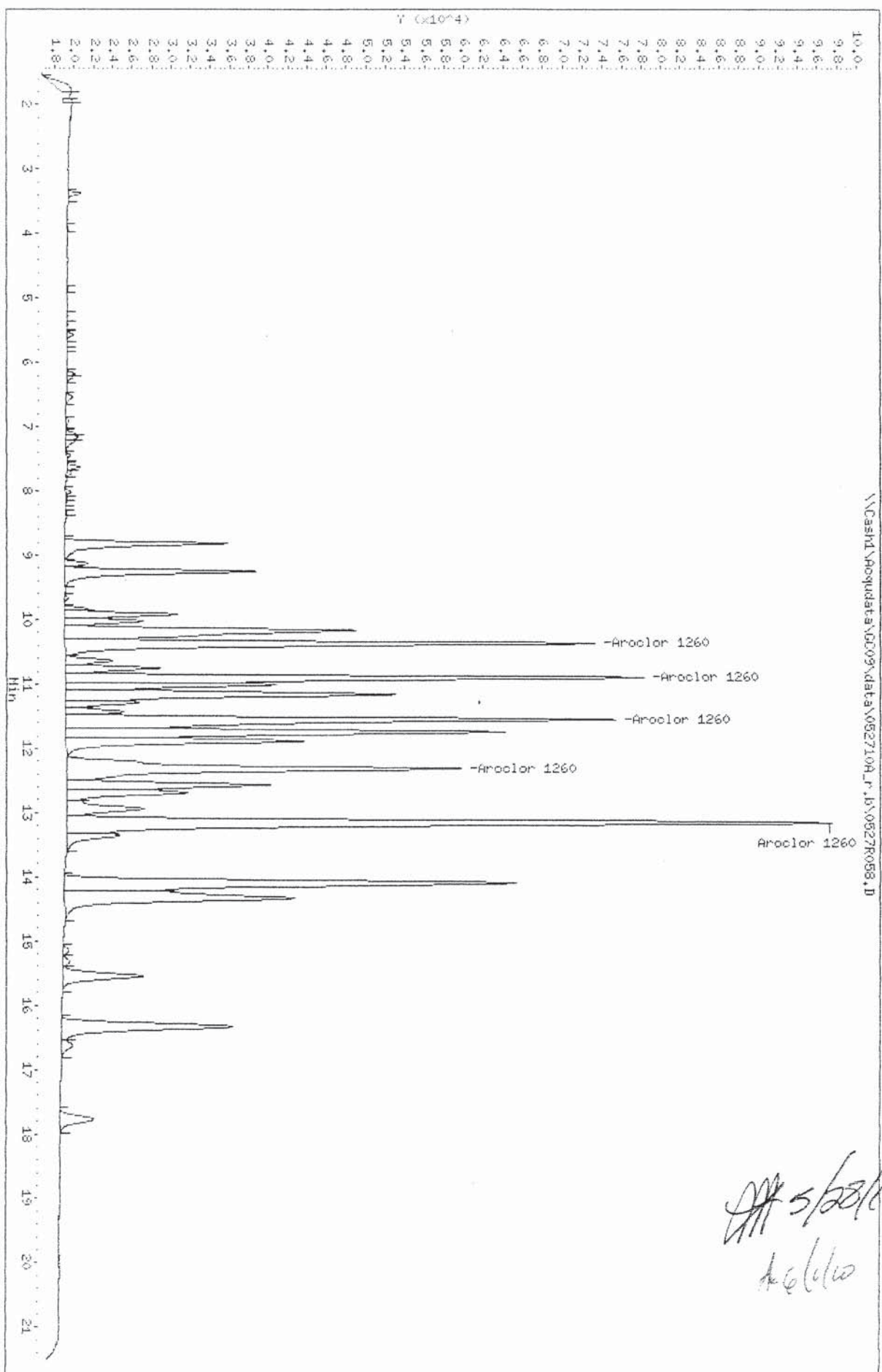
Data File: \\CASH1\Proqudata\0009\data\0527104.B\0527F058.D
Date: 28-Nov-2010 15:31
Client ID:
Sample Info: 1260 @ 1000ppb | PCB5-491
Column phase: DB-35HS

Instrument: 0009.1
Operator: Lharris
Column diameter: 0.53



Data File: \\Casht\Apoqudata\0009\data\052710A_LP.B\0527R058.D
Date: 28-HR-2010 15:31
Client ID:
Sample Info: 1260 @ 1000ppb | PCB5-491
Column Phase: DB-MLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Handwritten signature and date:
5/28/10
LHarris

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F059.D
Report Date: 28-May-2010 17:31

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F059.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R059.D
Inj Date : 28-MAY-2010 15:57
Sample Info: 1262 @ 1000ppb | PCB5-49J
Misc Info :
Cal Date : 28-MAY-2010 14:15
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

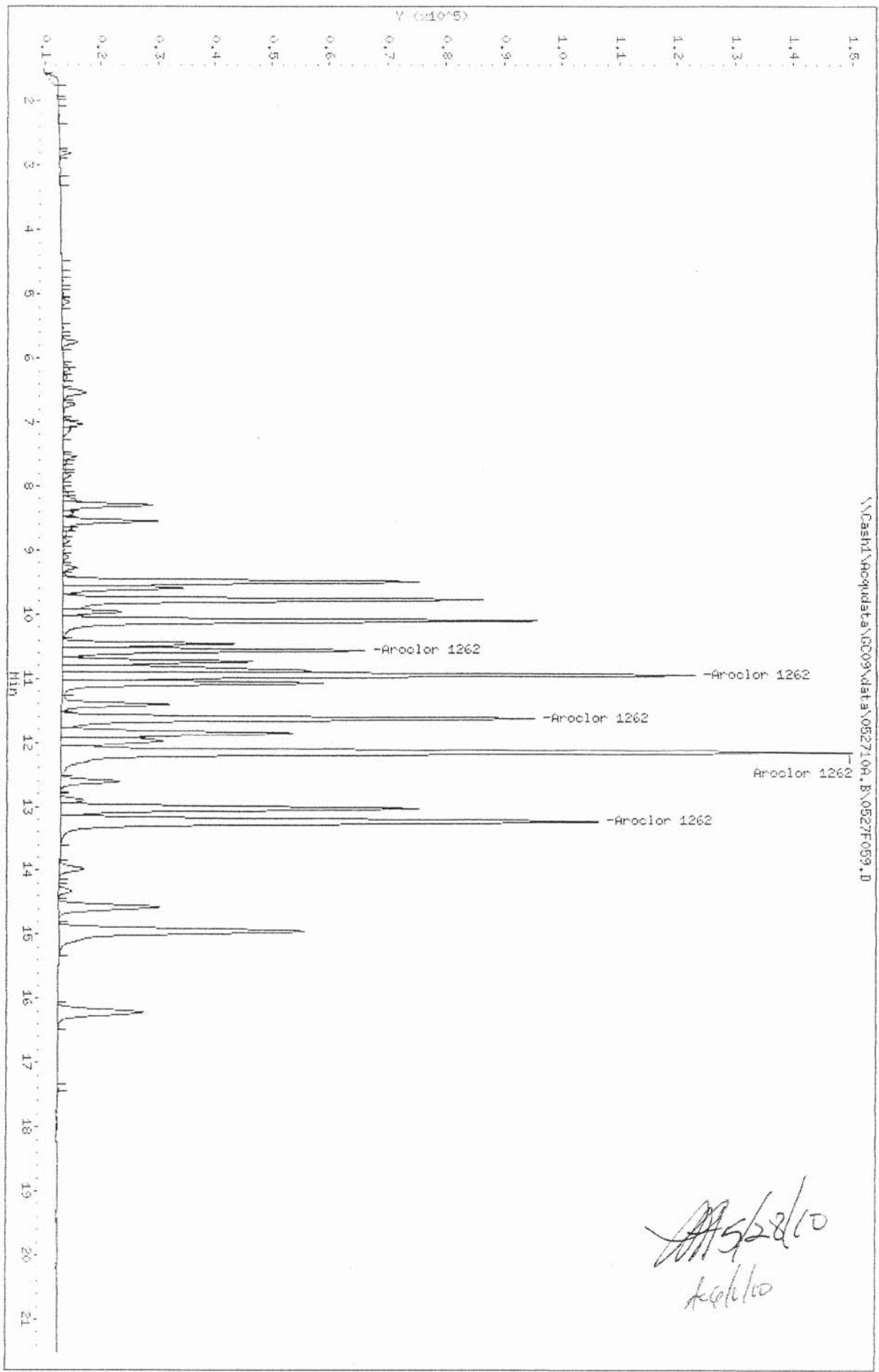
Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	10.560	10.893	222102	234302	910	988	80.00- 120.00	100.00
	10.943	11.550	481467	207257	972	986	166.27- 249.41	216.79
	11.623	11.743	381965	333659	983	978	129.39- 194.09	171.98
	12.147	12.313	735672	259339	1000	1000	249.74- 374.61	331.23
	13.230	13.150	553496	546094	1020	988	188.68- 283.02	249.21
	Average of Peak Amounts =				977	988		

Handwritten signature: AH 5/28/10
Handwritten signature: A-4/6/10

Data File: \\Casht\Acq\data\GC09\data\052710A.B\0527F059.D
Date: 28-MAY-2010 15:57
Client ID:
Sample Info: 1262 @ 1000ppb | PCB5-490
Column Phase: DB-25MS

Instrument: GC09.i
Operator: LHarris
Column diameter: 0.53

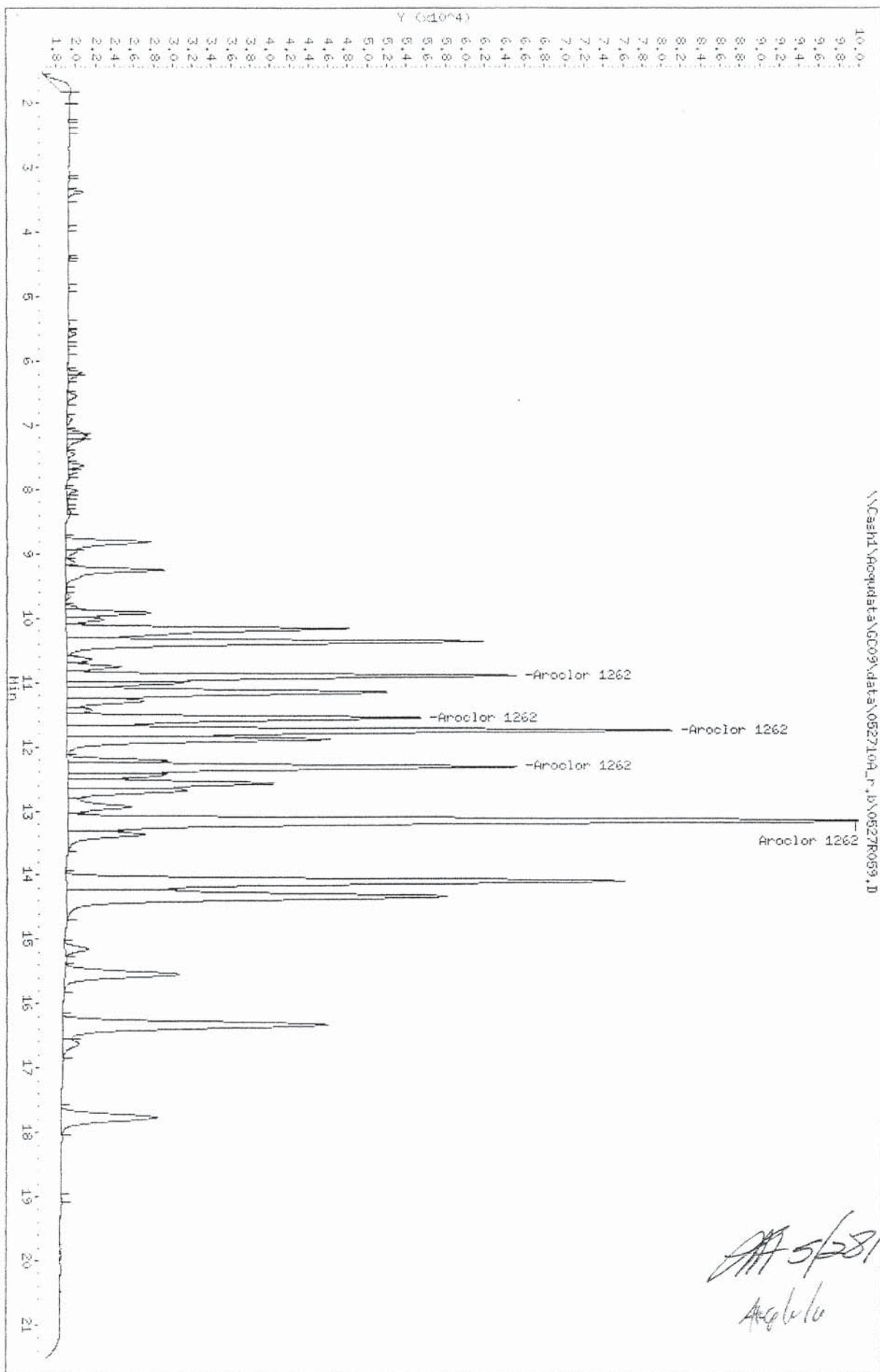


Handwritten signature and date:
5/28/10
LHarris

Data File: \\CASH1\Hocquidata\GC09\data\0527104_r.j\0527R059.D
Date: 28-MAY-2010 15:57
Client ID:
Sample Info: 1262 @ 1000ppb | PCBs-493

Column phase: DB-MLB

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Handwritten signature: JAH 5/28/10
Aroclor

Data File: \\Cash1\Acqudata\GC09\data\052710A.B\0527F060.D
Report Date: 28-May-2010 17:31

Columbia Analytical Services

Sample #1 : \\Cash1\Acqudata\GC09\data\052710A.B\0527F060.D
Sample #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\0527R060.D
Inj Date : 28-MAY-2010 16:23
Sample Info: 1268 @ 1000ppb | PCB5-49K
Misc Info :
Cal Date : 28-MAY-2010 14:15
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

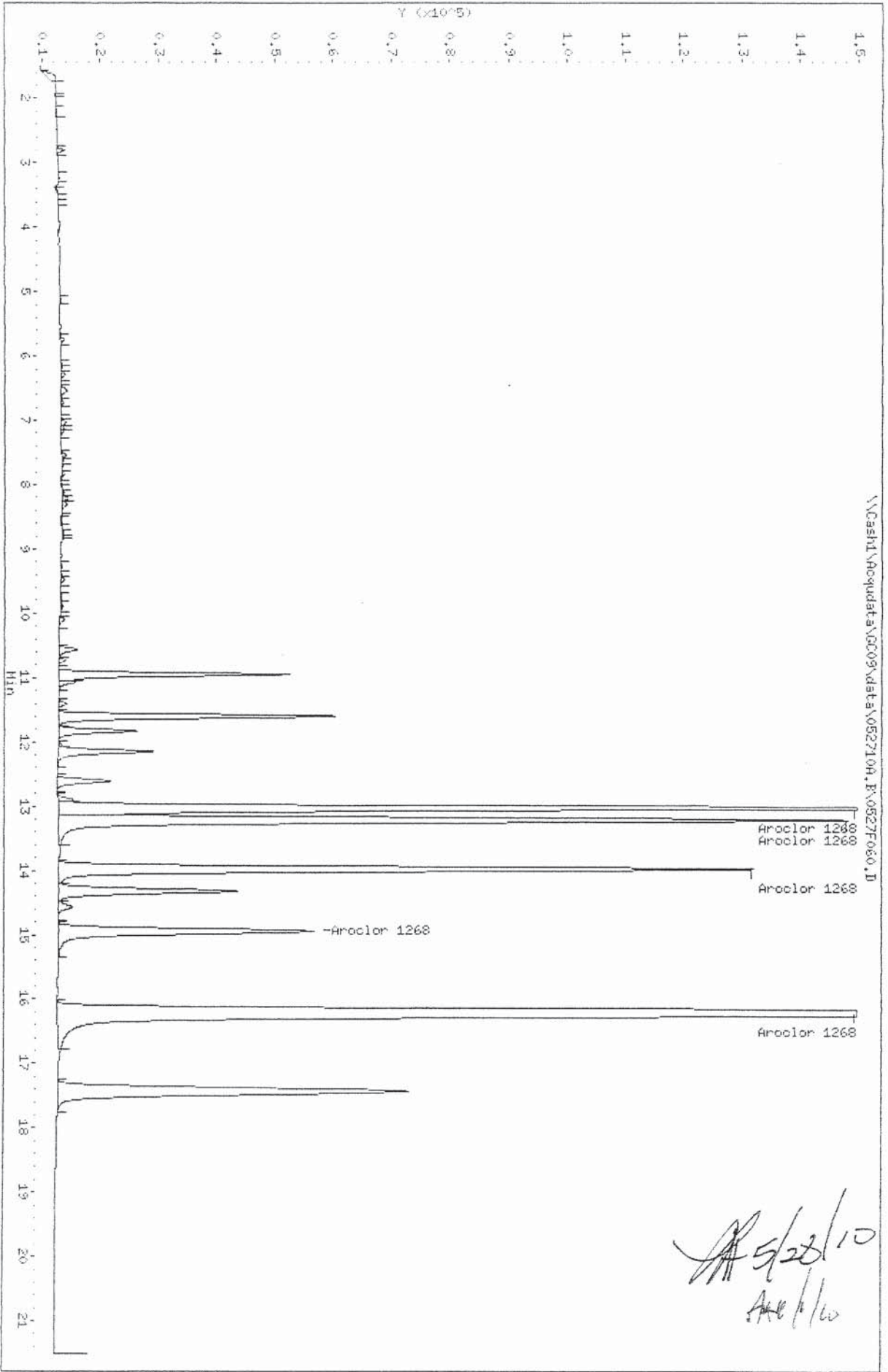
Method #1 : \\Cash1\Acqudata\GC09\data\052710A.B\052710A_f.m
Method #2 : \\Cash1\Acqudata\GC09\data\052710A_r.b\052710A_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	13.023	14.340	784164	632174	774	823	80.00- 120.00	100.00
	13.213	15.147	763165	542902	817	894	70.89- 106.33	97.32
	13.977	15.477	660290	153221	876	951	58.04- 87.06	84.20
	14.947	16.327	284662	225700	921	902	20.96- 31.43	36.30
	16.210	17.770	1934553	1692617	905	932	172.26- 258.39	246.70
	Average of Peak Amounts =				859	900		

JH 5/28/10
4/4/10

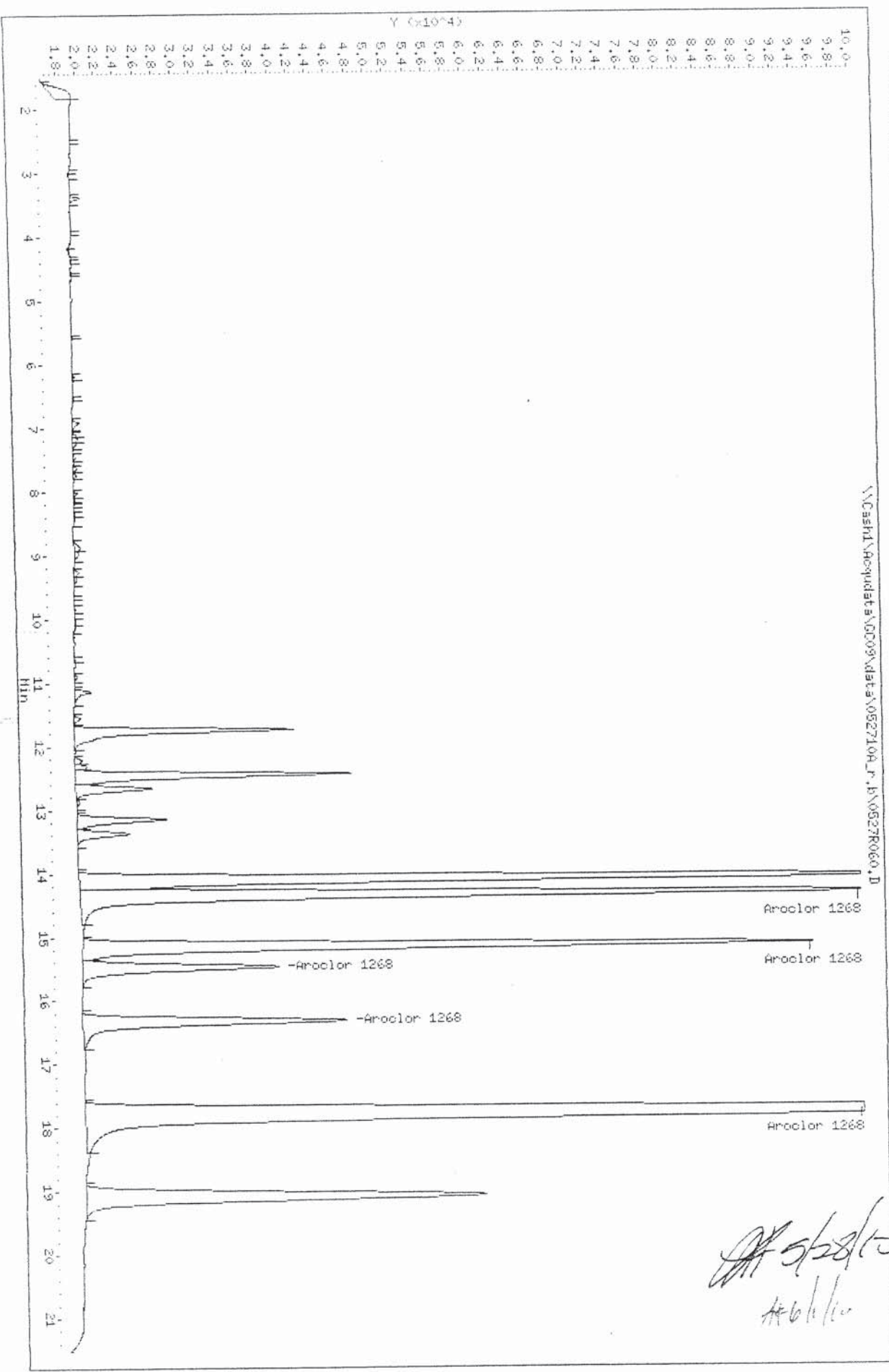
Data File: \\CASH1\Proqudata\GC09\data\052710H.F\0527F060.D
Date: 28-MAY-2010 16:23
Client ID:
Sample Info: 1268 @ 1000ppb | PCBs-49K
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



Data File: \\CASH1\Acq\data\GC09\data\052710A_r.j\0527R060.D
 Date: 28-May-2010 16:23
 Client ID:
 Sample Info: 1268 @ 1000ppb | PCBs-49K
 Column phase: DB-ALB

Instrument: GC09.1
 Operator: LHM:is
 Column diameter: 0.53



Handwritten signature and date:
 5/28/10
 HLM:is

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 06/08/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082
CCV Standard ID: PCB5-55I

Calibration Date: 05/27/2010
Calibration ID: CAL9510
Analysis Lot: KWG1005547
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F003.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	97	5900	5740	-3	NA	± 15 %	AverageRF
Aroclor 1016 {1}	1000	1000	142	146	3	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	286	300	5	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1000	243	245	1	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	970	207	201	-3	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	154	158	2	NA	± 100 %	AverageRF
Aroclor 1016	1000	1000	NA	NA	NA	2	± 15 %	NA
Aroclor 1260 {1}	1000	950	302	288	-5	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	930	370	346	-7	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	940	453	425	-6	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	990	433	429	-1	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	990	571	567	-1	NA	± 100 %	AverageRF
Aroclor 1260	1000	960	NA	NA	NA	-4	± 15 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 06/08/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082
CCV Standard ID: PCB5-55I

Calibration Date: 05/27/2010
Calibration ID: CAL9510
Analysis Lot: KWG1005547
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASH1\ACQUDATA\GC09\DATA\060810_R.B\0608R003.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	100	5130	5210	1	NA	± 15 %	AverageRF
Aroclor 1016 {1}	1000	990	183	181	-1	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	960	323	311	-4	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	158	172	9	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	131	135	3	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	147	154	5	NA	± 100 %	AverageRF
Aroclor 1016	1000	1000	NA	NA	NA	2	± 15 %	NA
Aroclor 1260 {1}	1000	990	277	275	-1	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	980	297	290	-2	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1000	372	374	1	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	235	252	7	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1000	440	442	1	NA	± 100 %	AverageRF
Aroclor 1260	1000	1000	NA	NA	NA	1	± 15 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F003.D
Lab ID: KWG1005547-2
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 06/08/2010 18:27
Date Quantitated: 06/09/2010 10:28
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: M. (9/10)

Secondary Review: 6/9/10

Exception Report

Data File: \\CASH1\ACQUDATA\GC09\DATA\060810_R.B\0608R003.D
Lab ID: KWG1005547-2
Run Type: CCV
Matrix: NOT APPLICABLE

Date Acquired: 06/08/2010 18:27
Date Quantitated: 06/09/2010 10:29
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Bottle ID:	Tier:	Matrix:	NOT APPLICABL
Prod Code: 8082 PCB	Collect Date:	Receive Date:	06/08/2010

Analysis Lot: KWG1005547	Prep Lot:	Report Group:
Analysis Method: 8082	Prep Method:	
Prep Ref:	Prep Date:	

Quant Method: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\052710A_F.M	Calibration ID: CAL9510
Title:	Method ID: MJ579
MB Ref:	Quant based on Method

Data File #1: J:\GC09\DATA\060810.B\0608F003.D	Instrument: GC09.i
Data File #2: \\cash1\acquadata\GC09\data\060810_r.b\0608R003.D	Vial: 96
Acqu Date: 06/08/2010 18:27	Quant Date: 06/09/2010 10:28
Run Type: CCV	Dilution: 1.0
Lab ID: KWG1005547-2	Soln Conc. Units: ng/mL
Signal #1: DB-35MS	Signal #2: DB-XLB

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	Final Conc. Units: ug/L		Rpt
Tetrachloro-m-xylene	4.33	5.02	692263m	601402m	97.43	102.13			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	17.39	19.02	574224	520631	97.27	101.43			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	1,016	1,024			
Aroclor 1016 {1}	6.17	6.53	145881m	181457m	1,030	990.64			
Aroclor 1016 {2}	6.71	7.15	300418m	310938m	1,049	961.49			
Aroclor 1016 {3}	7.02	7.43	245498m	171944m	1,009	1,089			
Aroclor 1016 {4}	7.52	7.60	200913m	134940m	969.88	1,033			
Aroclor 1016 {5}	7.82	7.71	157560m	154205m	1,022	1,046			
Aroclor 1260			0	0	961.98	1,010			
Aroclor 1260 {1}	9.47	10.34	288291m	275321m	953.54	992.38			
Aroclor 1260 {2}	9.75	10.87	345727m	289848m	934.97	976.63			
Aroclor 1260 {3}	10.08	11.52	425217m	374159m	939.01	1,006			
Aroclor 1260 {4}	10.86	12.29	428795m	251661m	989.82	1,069			
Aroclor 1260 {5}	12.12	13.12	566750m	441958m	992.59	1,005			

f: f not detected at or above MDL
 F: Analyte detected above MDL, but below MRL
 B: Hit above MRL, also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

* Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Calibration Verification Report

Calibration ID: CAL9510

Method ID: MJ579

DataFile: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F003.D

<u>Parameter Name</u>	<u>Type</u>	<u>PARM Type</u>	<u>Curve Fit</u>	<u>Method Criteria</u>	<u>Min RF</u>	<u>ICAL RF</u>	<u>CCV RF</u>	<u>%Diff</u>	<u>Sol'n Conc.</u>	<u>True Value</u>	<u>% Drift</u>
Aroclor 1016		MS	NA	15					1,016	1,000	1.6
Aroclor 1260		MS	NA	15					962.0	1,000	-3.8
Tetrachloro-m-xylene		SURR	AverageRF	15		7.1E+3	6.9E+3	-2.6			
Aroclor 1016 {1}		MULTI	AverageRF	100		1.4E+2	1.5E+2	3.0			
Aroclor 1016 {2}		MULTI	AverageRF	100		2.9E+2	3.0E+2	4.9			
Aroclor 1016 {3}		MULTI	AverageRF	100		2.4E+2	2.5E+2	0.9			
Aroclor 1016 {4}		MULTI	AverageRF	100		2.1E+2	2.0E+2	-3.0			
Aroclor 1016 {5}		MULTI	AverageRF	100		1.5E+2	1.6E+2	2.2			
Aroclor 1260 {1}		MULTI	AverageRF	100		3.0E+2	2.9E+2	-4.6			
Aroclor 1260 {2}		MULTI	AverageRF	100		3.7E+2	3.5E+2	-6.5			
Aroclor 1260 {3}		MULTI	AverageRF	100		4.5E+2	4.3E+2	-6.1			
Aroclor 1260 {4}		MULTI	AverageRF	100		4.3E+2	4.3E+2	-1.0			
Aroclor 1260 {5}		MULTI	AverageRF	100		5.7E+2	5.7E+2	-0.7			
Decachlorobiphenyl		SURR	AverageRF	15		5.9E+3	5.7E+3	-2.7			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	3.2

Calibration Verification Report

Calibration ID: CAL9510
 Method ID: MJ579
 DataFile: \\CASH1\ACQUDATA\GC09\DATA\060810_R.B\0608R003.D

<u>Parameter Name</u>	<u>Type</u>	<u>PARM Type</u>	<u>Curve Fit</u>	<u>Method Criteria</u>	<u>Min RF</u>	<u>ICAL RF</u>	<u>CCV RF</u>	<u>%Diff</u>	<u>Sol'n Conc.</u>	<u>True Value</u>	<u>% Drift</u>
Aroclor 1016		MS	NA	15					1,024	1,000	2.4
Aroclor 1260		MS	NA	15					1,010	1,000	1.0
Tetrachloro-m-xylene		SURR	AverageRF	15		5.9E+3	6.0E+3	2.1			
Aroclor 1016 {1}		MULTI	AverageRF	100		1.8E+2	1.8E+2	-0.9			
Aroclor 1016 {2}		MULTI	AverageRF	100		3.2E+2	3.1E+2	-3.9			
Aroclor 1016 {3}		MULTI	AverageRF	100		1.6E+2	1.7E+2	8.9			
Aroclor 1016 {4}		MULTI	AverageRF	100		1.3E+2	1.3E+2	3.3			
Aroclor 1016 {5}		MULTI	AverageRF	100		1.5E+2	1.5E+2	4.6			
Aroclor 1260 {1}		MULTI	AverageRF	100		2.8E+2	2.8E+2	-0.8			
Aroclor 1260 {2}		MULTI	AverageRF	100		3.0E+2	2.9E+2	-2.3			
Aroclor 1260 {3}		MULTI	AverageRF	100		3.7E+2	3.7E+2	0.5			
Aroclor 1260 {4}		MULTI	AverageRF	100		2.4E+2	2.5E+2	6.9			
Aroclor 1260 {5}		MULTI	AverageRF	100		4.4E+2	4.4E+2	0.5			
Decachlorobiphenyl		SURR	AverageRF	15		5.1E+3	5.2E+3	1.4			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	3.0

Data File: \\cash1\acqdata\GC09\data\060810.b\0608F003.D
 Report Date: 09-Jun-2010 10:28

Laboratory Name

Sample #1 : \\cash1\acqdata\GC09\data\060810.b\0608F003.D
 Sample #2 : \\cash1\acqdata\GC09\data\060810_r.b\0608R003.D
 Inj Date : 08-JUN-2010 18:27
 Sample Info: 1660 @ 1000ppb | PCB5-55I | KWG1005547-2
 Misc Info : SEMIVOA GC\W1005547\2-CCV.H
 Cal Date : 09-JUN-2010 08:48
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\060810.b\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\060810_r.b\052710A_r.m
 Sub List #1 : AR1660.SUB
 Sub List #2 : AR1660.SUB
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

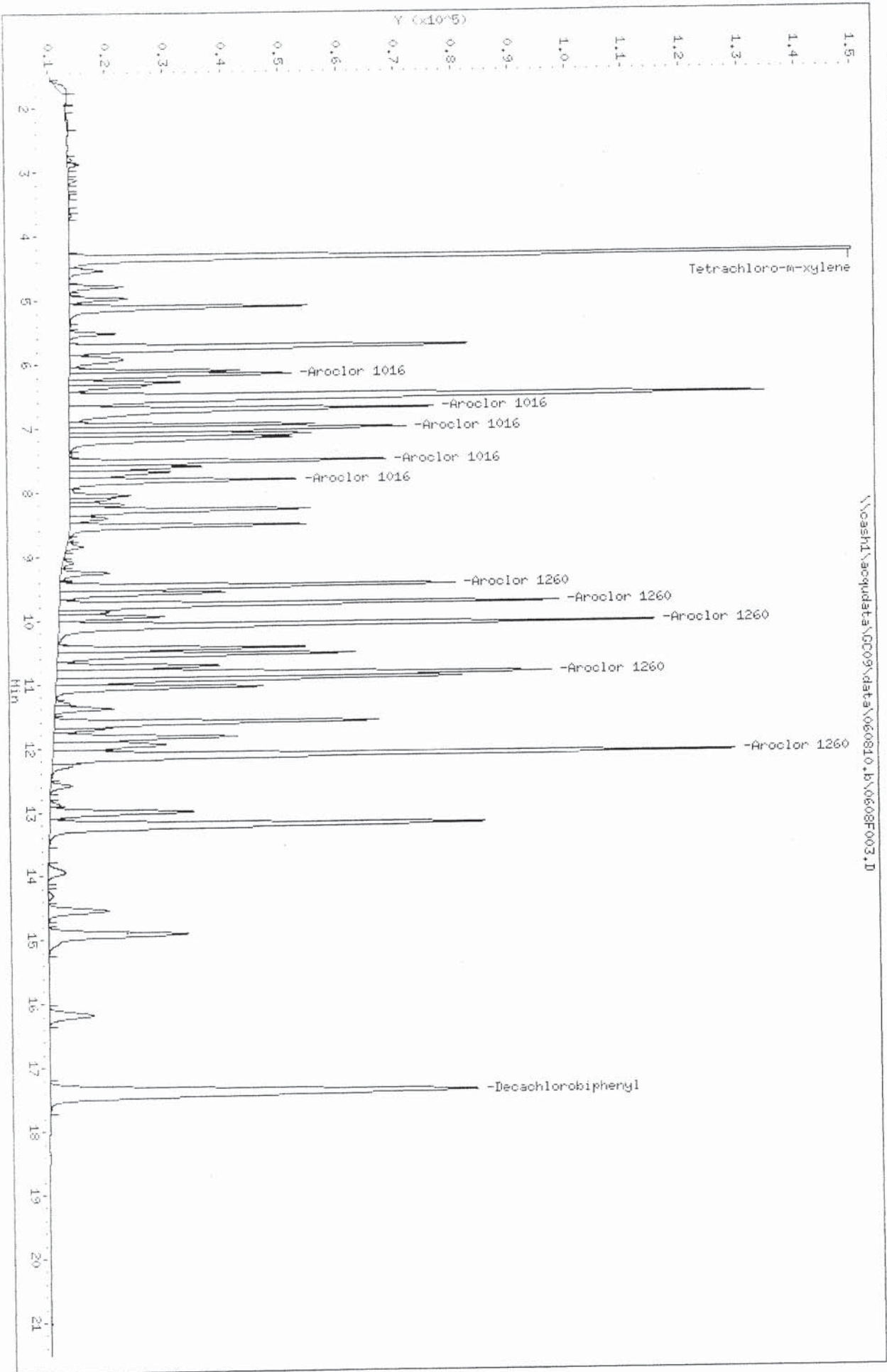
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.333	5.017	692263	601402	97.4	102		100.00(M)
Aroclor 1016	6.167	6.527	145881	181457	1030	991	80.00- 120.00	100.00(M)
	6.707	7.147	300418	310938	1050	961	164.25- 246.38	205.93(M)
	7.017	7.430	245498	171944	1010	1090	130.18- 195.27	168.29(M)
	7.523	7.603	200913	134940	970	1030	112.90- 169.35	137.72(M)
	7.820	7.707	157560	154205	1020	1040	87.15- 130.73	108.01(M)
	Average of Peak Amounts =				1020	1020		
Aroclor 1260	9.470	10.343	288291	275321	954	992	80.00- 120.00	100.00(M)
	9.753	10.873	345727	289848	935	977	99.43- 149.15	119.92(M)
	10.077	11.523	425217	374159	939	1000	120.99- 181.49	147.50(M)
	10.857	12.287	428795	251661	990	1070	123.90- 185.85	148.74(M)
	12.123	13.117	566750	441958	992	1000	165.84- 248.76	196.59(M)
	Average of Peak Amounts =				962	1010		
Decachlorobiphenyl	17.390	19.023	574224	520631	97.3	101		100.00

QC Flag Legend

M - Compound response manually integrated.

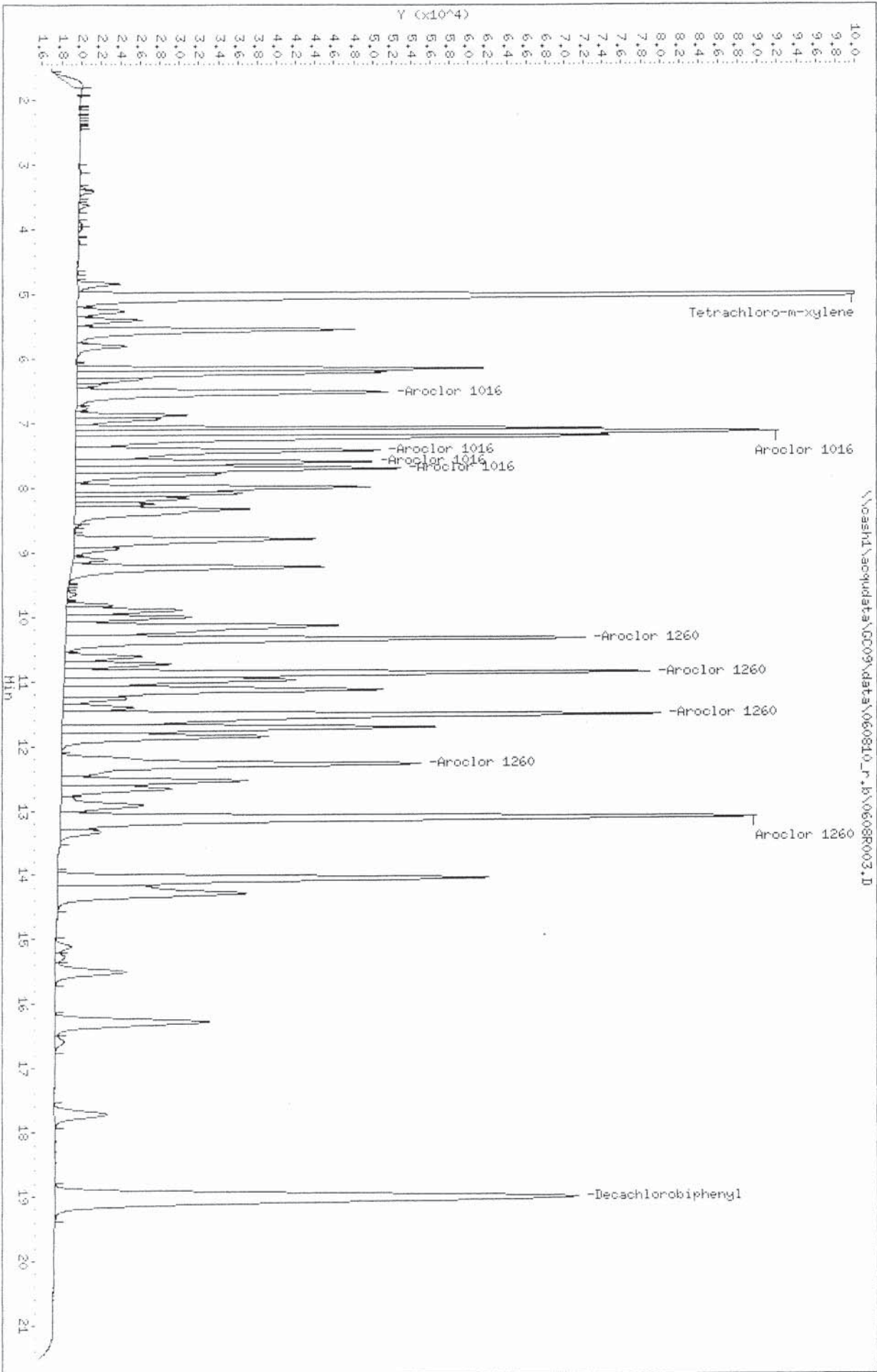
Data File: \\oasht1\acq\data\GC09\data\060810_1b\0608F003.D
Date: 08-JUN-2010 18:27
Client ID:
Sample Info: 1660 @ 1000ppb | PCB5-591 | KMC10005547-2
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

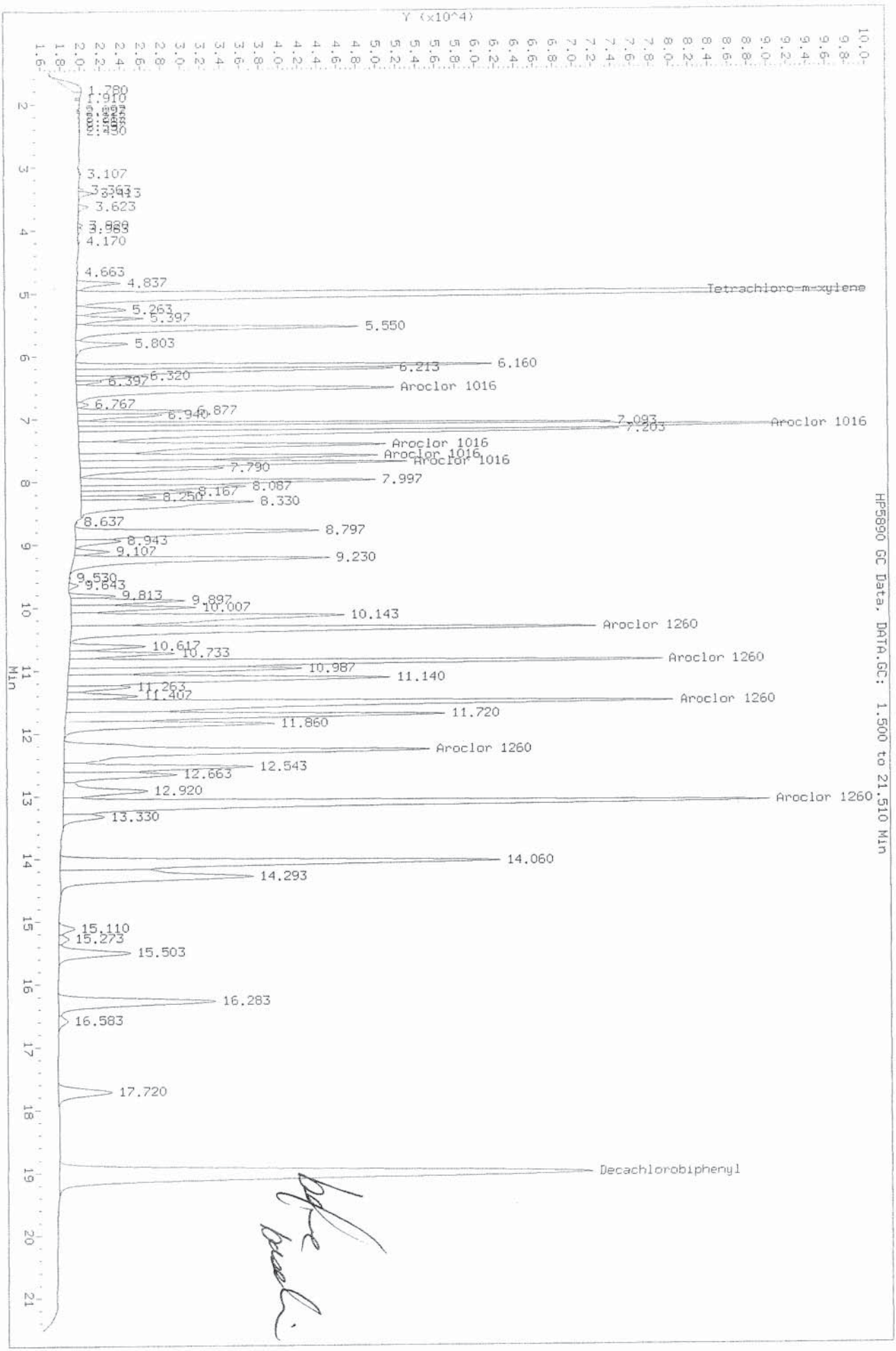


Data File: \\oashd\acq\data\GC09\data\060810_r_b\0608R003.D
Date: 08-JUN-2010 18:27
Client ID:
Sample Info: 1660 @ 1000ppb | PCB5-551 | KMG1005547-2
Column phase: DB-XLB

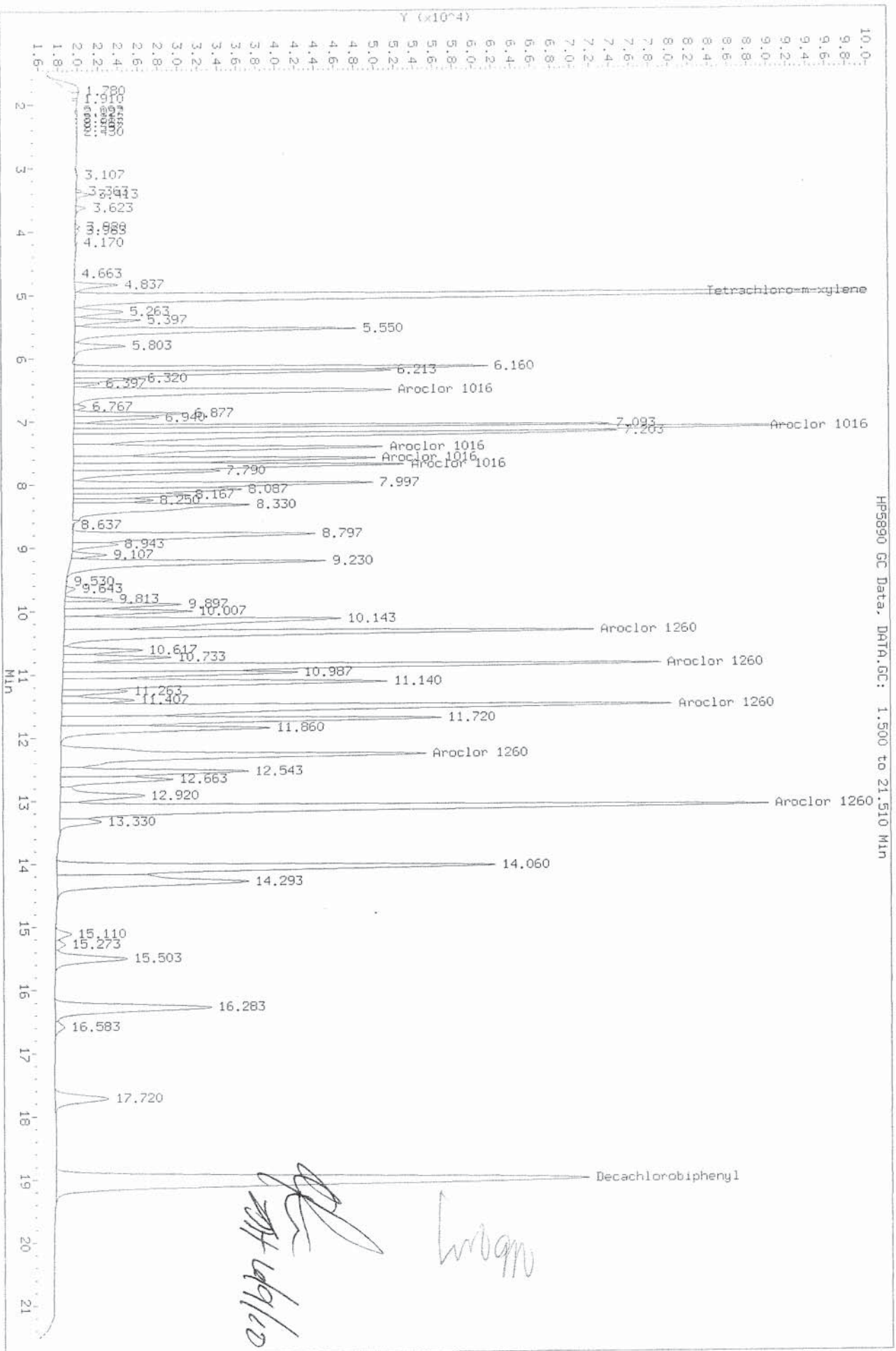
Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53



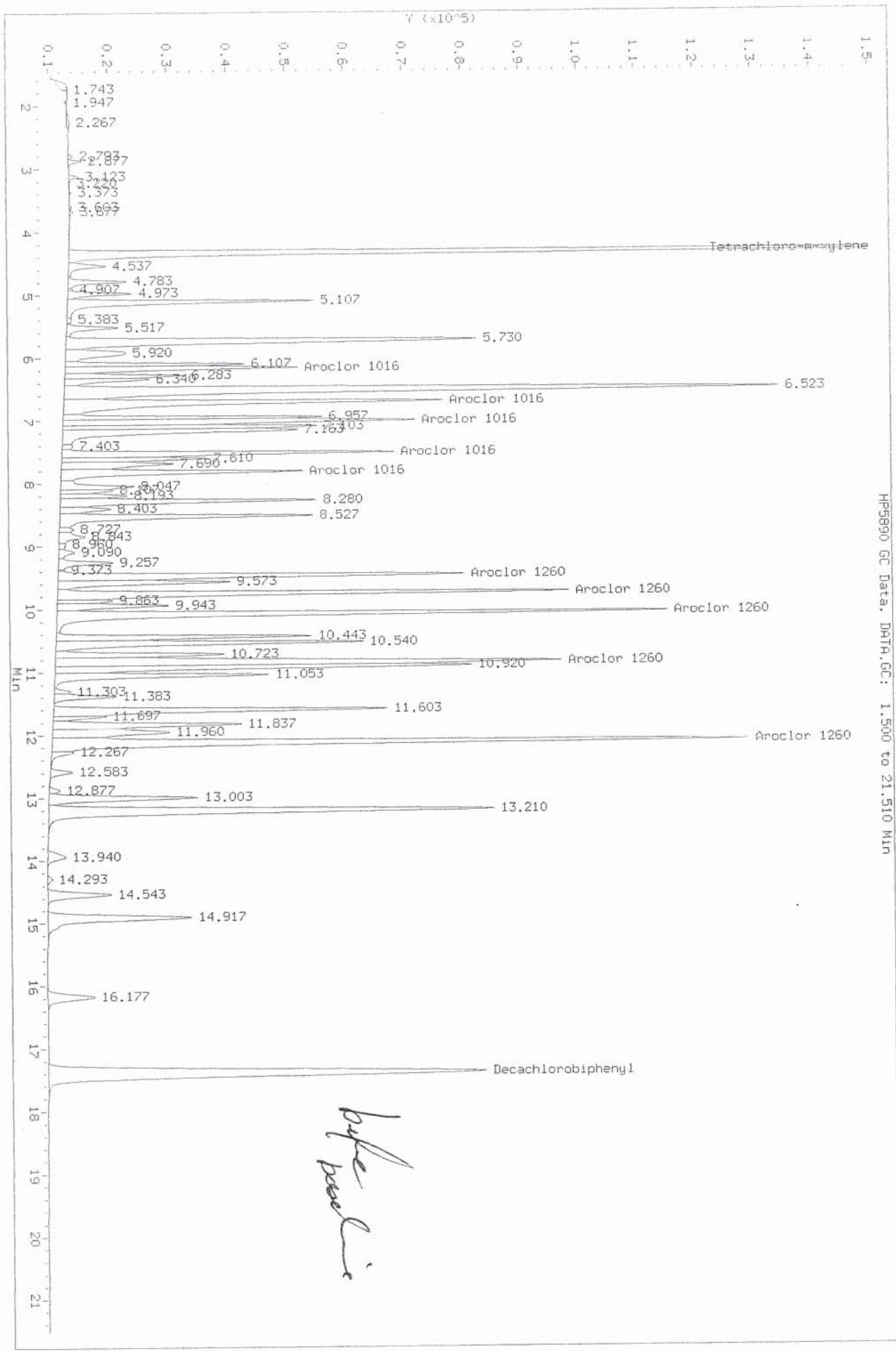
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 Injection Date: 08-JUN-2010 18:27
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acq\data\GC09\data\060810_r.b\0608R003.D
 Injection Date: 08-JUN-2010 18:27
 Instrument: GC09.1
 Client Sample ID:

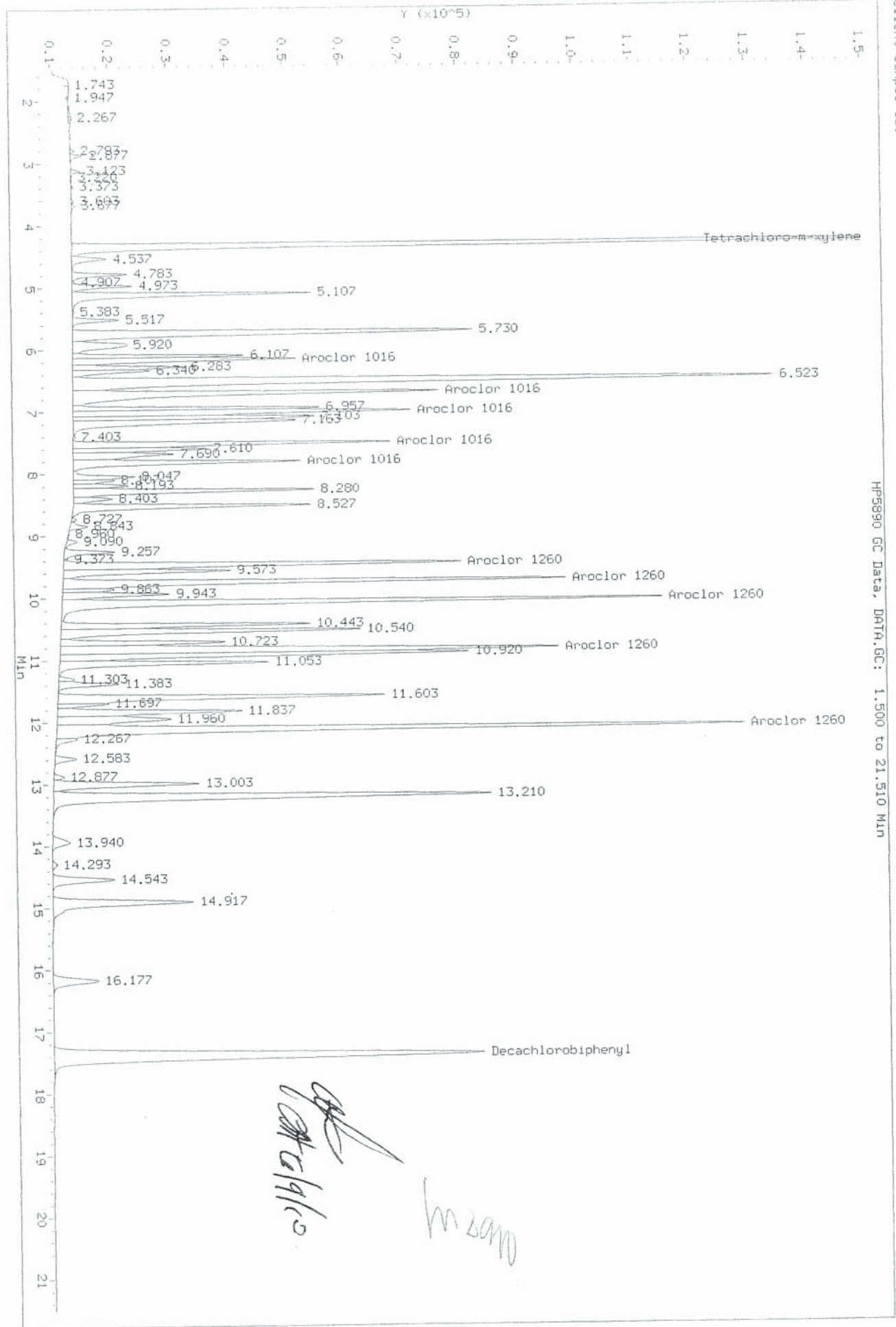


Data File: \\Casha1\Acqudata\GC09\data\060810.b\0608F003.D
 Injection Date: 08-JUN-2010 18:27
 Instrument: GC09.1
 Client Sample ID:



Data File: \\Cash1\Acq\data\GC09\data\060810_b\0608f003.D
 Injection Date: 06-JUN-2010 18:27
 Instrument: GC09.1
 Client Sample ID:

HP5890 GC Data, DATA.GC: 1.500 to 21.510 Min



Handwritten signature and date:
 [Signature]
 6/19/10

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 06/09/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082
CCV Standard ID: PCB5-55I

Calibration Date: 05/27/2010
Calibration ID: CAL9510
Analysis Lot: KWG1005547
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F019.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	98	5900	5760	-2	NA	± 15 %	AverageRF
Aroclor 1016 {1}	1000	1000	142	143	1	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	286	295	3	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	960	243	232	-4	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	970	207	201	-3	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	154	156	1	NA	± 100 %	AverageRF
Aroclor 1016	1000	990	NA	NA	NA	-1	± 15 %	NA
Aroclor 1260 {1}	1000	940	302	284	-6	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	930	370	344	-7	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	930	453	421	-7	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	990	433	427	-1	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1000	571	571	0	NA	± 100 %	AverageRF
Aroclor 1260	1000	960	NA	NA	NA	-4	± 15 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 06/09/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082
CCV Standard ID: PCB5-55I

Calibration Date: 05/27/2010
Calibration ID: CAL9510
Analysis Lot: KWG1005547
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASHI\ACQU\DATA\GC09\DATA\060810_R.B\0608R019.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	100	5130	5190	1	NA	± 15 %	AverageRF
Aroclor 1016 {1}	1000	970	183	178	-3	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	950	323	306	-5	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	158	170	7	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	131	133	2	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	147	152	3	NA	± 100 %	AverageRF
Aroclor 1016	1000	1000	NA	NA	NA	1	± 15 %	NA
Aroclor 1260 {1}	1000	990	277	274	-1	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	980	297	292	-2	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1000	372	374	0	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	235	251	7	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1000	440	443	1	NA	± 100 %	AverageRF
Aroclor 1260	1000	1000	NA	NA	NA	1	± 15 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

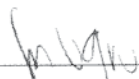
Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F019.D
Lab ID: KWG1005547-4
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 06/09/2010 01:25
Date Quantitated: 06/09/2010 10:29
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 

Secondary Review: 

Exception Report

Data File: \\CASH1\ACQUADATA\GC09\DATA\060810_R.B\0608R019.D
Lab ID: KWG1005547-4
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 06/09/2010 01:25
Date Quantitated: 06/09/2010 10:30
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: mbgno

Secondary Review: Carle/Carle

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 8082 PCB	Collect Date:	NOT APPLICABL Receive Date: 06/08/2010

Analysis Lot: KWG1005547	Prep Lot:	Report Group:
Analysis Method: 8082	Prep Method:	
Prep Ref:	Prep Date:	

Quant Method: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\052710A_F.M	Calibration ID: CAL9510
Title:	Method ID: MJ579
MB Ref:	Quant based on Method

Data File #1: J:\GC09\DATA\060810.B\0608F019.D	Instrument: GC09.i
Data File #2: \\cash1\acq\data\GC09\data\060810_r.b\0608R019.D	Vial: 96
Acqu Date: 06/09/2010 01:25	Quant Date: 06/09/2010 10:29
Run Type: CCV	Dilution: 1.0
Lab ID: KWG1005547-4	Soln Conc. Units: ng/mL
Signal #1: DB-35MS	Signal #2: DB-XLB

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	4.33	5.02	675384	588830m	95.05	99.99			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	17.39	19.02	576179	519487	97.60	101.20			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	Final Conc. Units: ug/L		Rpt
							#1	#2	
Aroclor 1016			0	0	994.26	1,008			
Aroclor 1016 {1}	6.17	6.53	142527m	177625m	1,007	969.72			
Aroclor 1016 {2}	6.71	7.15	295434m	305811m	1,032	945.64			
Aroclor 1016 {3}	7.02	7.43	232366m	169767m	955.08	1,075			
Aroclor 1016 {4}	7.53	7.60	200576m	133314m	968.26	1,020			
Aroclor 1016 {5}	7.82	7.71	155701m	151923m	1,010	1,030			
Aroclor 1260			0	0	956.86	1,010			
Aroclor 1260 {1}	9.47	10.34	284077m	274409m	939.61	989.09			
Aroclor 1260 {2}	9.75	10.87	343579m	291607m	929.16	982.56			
Aroclor 1260 {3}	10.08	11.52	421480m	373679m	930.76	1,004			
Aroclor 1260 {4}	10.85	12.29	426925m	251121m	985.50	1,066			
Aroclor 1260 {5}	12.12	13.12	570582m	443020m	999.30	1,008			

E: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL, also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Calibration Verification Report

Calibration ID: CAL9510

Method ID: MJ579

DataFile: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F019.D

<u>Parameter Name</u>	<u>Type</u>	<u>PARM Type</u>	<u>Curve Fit</u>	<u>Method Criteria</u>	<u>Min RF</u>	<u>ICAL RF</u>	<u>CCV RF</u>	<u>%Diff</u>	<u>Sol'n Conc.</u>	<u>True Value</u>	<u>% Drift</u>
Aroclor 1016		MS	NA	15					994.3	1,000	-0.6
Aroclor 1260		MS	NA	15					956.9	1,000	-4.3
Tetrachloro-m-xylene		SURR	AverageRF	15		7.1E+3	6.8E+3	-5.0			
Aroclor 1016 {1}		MULTI	AverageRF	100		1.4E+2	1.4E+2	0.7			
Aroclor 1016 {2}		MULTI	AverageRF	100		2.9E+2	3.0E+2	3.2			
Aroclor 1016 {3}		MULTI	AverageRF	100		2.4E+2	2.3E+2	-4.5			
Aroclor 1016 {4}		MULTI	AverageRF	100		2.1E+2	2.0E+2	-3.2			
Aroclor 1016 {5}		MULTI	AverageRF	100		1.5E+2	1.6E+2	1.0			
Aroclor 1260 {1}		MULTI	AverageRF	100		3.0E+2	2.8E+2	-6.0			
Aroclor 1260 {2}		MULTI	AverageRF	100		3.7E+2	3.4E+2	-7.1			
Aroclor 1260 {3}		MULTI	AverageRF	100		4.5E+2	4.2E+2	-6.9			
Aroclor 1260 {4}		MULTI	AverageRF	100		4.3E+2	4.3E+2	-1.5			
Aroclor 1260 {5}		MULTI	AverageRF	100		5.7E+2	5.7E+2	-0.1			
Decachlorobiphenyl		SURR	AverageRF	15		5.9E+3	5.8E+3	-2.4			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	3.4

Calibration Verification Report

Calibration ID: CAL9510

Method ID: MJ579

DataFile: \\CASH1\ACQU\DATA\GC09\DATA\060810_R.B\0608R019.D

<u>Parameter Name</u>	<u>Type</u>	<u>PARM Type</u>	<u>Curve Fit</u>	<u>Method Criteria</u>	<u>Min RF</u>	<u>ICAL RF</u>	<u>CCV RF</u>	<u>%Diff</u>	<u>Sol'n Conc.</u>	<u>True Value</u>	<u>% Drift</u>
Aroclor 1016		MS	NA	15					1,008	1,000	0.8
Aroclor 1260		MS	NA	15					1,010	1,000	1.0
Tetrachloro-m-xylene		SURR	AverageRF	15		5.9E+3	5.9E+3	0.0			
Aroclor 1016 {1}		MULTI	AverageRF	100		1.8E+2	1.8E+2	-3.0			
Aroclor 1016 {2}		MULTI	AverageRF	100		3.2E+2	3.1E+2	-5.4			
Aroclor 1016 {3}		MULTI	AverageRF	100		1.6E+2	1.7E+2	7.5			
Aroclor 1016 {4}		MULTI	AverageRF	100		1.3E+2	1.3E+2	2.0			
Aroclor 1016 {5}		MULTI	AverageRF	100		1.5E+2	1.5E+2	3.0			
Aroclor 1260 {1}		MULTI	AverageRF	100		2.8E+2	2.7E+2	-1.1			
Aroclor 1260 {2}		MULTI	AverageRF	100		3.0E+2	2.9E+2	-1.7			
Aroclor 1260 {3}		MULTI	AverageRF	100		3.7E+2	3.7E+2	0.4			
Aroclor 1260 {4}		MULTI	AverageRF	100		2.4E+2	2.5E+2	6.6			
Aroclor 1260 {5}		MULTI	AverageRF	100		4.4E+2	4.4E+2	0.8			
Decachlorobiphenyl		SURR	AverageRF	15		5.1E+3	5.2E+3	1.2			

Alternate Calibration Evaluation Summary

Maximum Allowable Average %D =	15.0
Calculated Average %D =	2.7

Laboratory Name

Sample #1 : \\cash1\acqdata\GC09\data\060810.b\0608F019.D
 Sample #2 : \\cash1\acqdata\GC09\data\060810_r.b\0608R019.D
 Inj Date : 09-JUN-2010 01:25
 Sample Info: 1660 @ 1000ppb | PCB5-55I | KWG1005547-4
 Misc Info : SEMIOVA GC\W1005547\4-CCV.H
 Cal Date : 09-JUN-2010 08:49
 Operator : LHarris
 Inst ID : GC09.i
 Dil Factor : 1.000000

Method #1 : \\Cash1\Acqdata\GC09\data\060810.b\052710A_f.m
 Method #2 : \\Cash1\Acqdata\GC09\data\060810_r.b\052710A_r.m
 Sub List #1 : AR1660.SUB
 Sub List #2 : AR1660.SUB
 Col #1 Phase : DB-35MS
 Col #2 Phase : DB-XLB

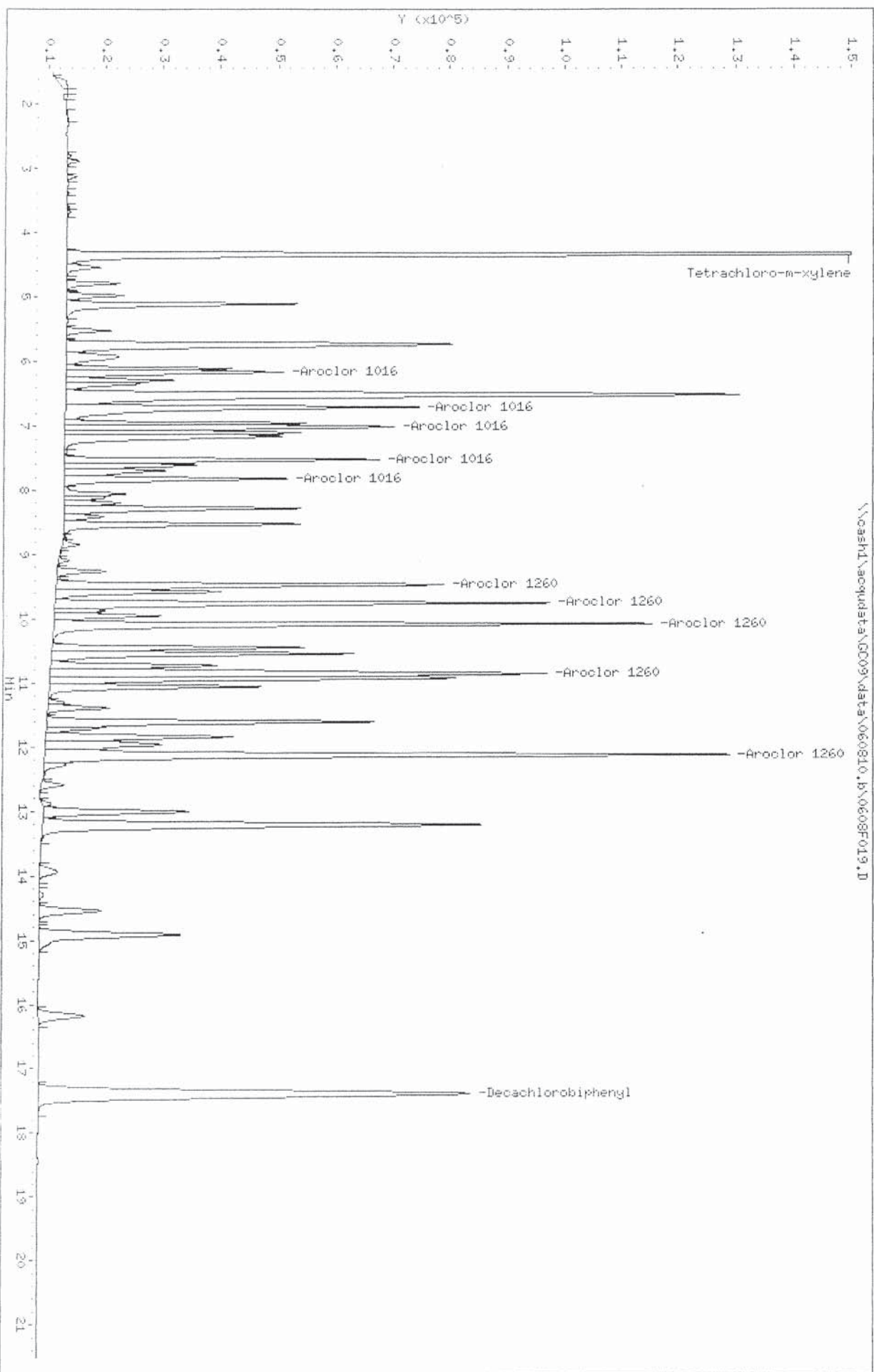
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	4.333	5.017	675384	588830	95.0	100		100.00
Aroclor 1016	6.167	6.527	142527	177625	1010	970	80.00- 120.00	100.00 (M)
	6.710	7.147	295434	305811	1030	946	164.25- 246.38	207.28 (M)
	7.017	7.430	232366	169767	955	1070	130.18- 195.27	163.03 (M)
	7.527	7.603	200576	133314	968	1020	112.90- 169.35	140.73 (M)
	7.820	7.707	155701	151923	1010	1030	87.15- 130.73	109.24 (M)
	Average of Peak Amounts =				995	1010		
Aroclor 1260	9.470	10.343	284077	274409	940	989	80.00- 120.00	100.00 (M)
	9.753	10.873	343579	291607	929	982	99.43- 149.15	120.95 (M)
	10.080	11.523	421480	373679	931	1000	120.99- 181.49	148.37 (M)
	10.853	12.287	426925	251121	985	1070	123.90- 185.85	150.28 (M)
	12.123	13.117	570582	443020	999	1010	165.84- 248.76	200.85 (M)
	Average of Peak Amounts =				957	1010		
Dibenzodibiphenyl	17.393	19.023	576179	519487	97.6	101		100.00

QC Flag Legend

M - Compound response manually integrated.

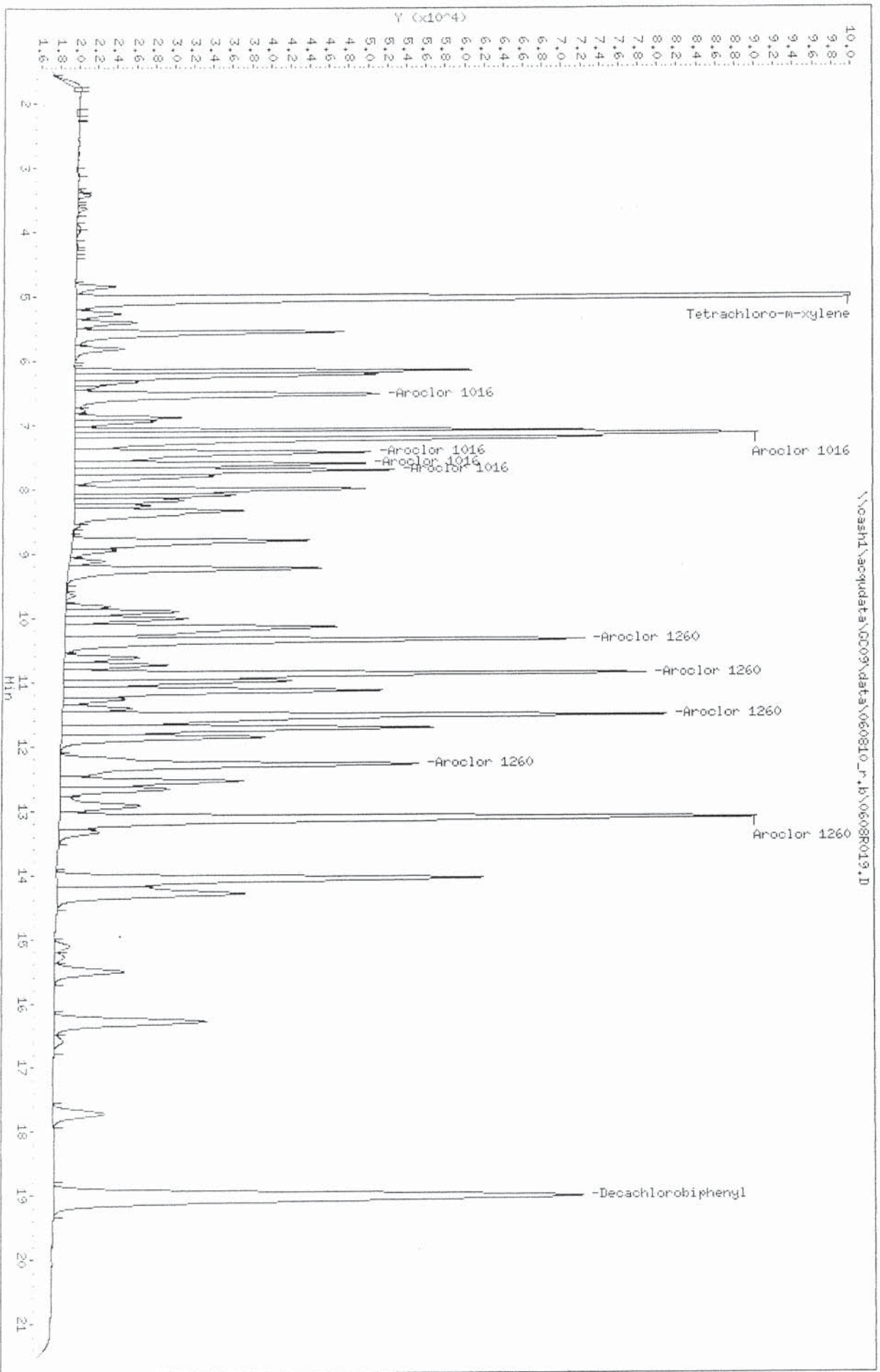
Data File: \\ncash1\accudata\GC09\data\060810.B\0608F019.D
Date: 09-JUN-2010 01:25
Client ID:
Sample Info: 1660 @ 1000ppb | PCB5-5S1 | KM010005547-4
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

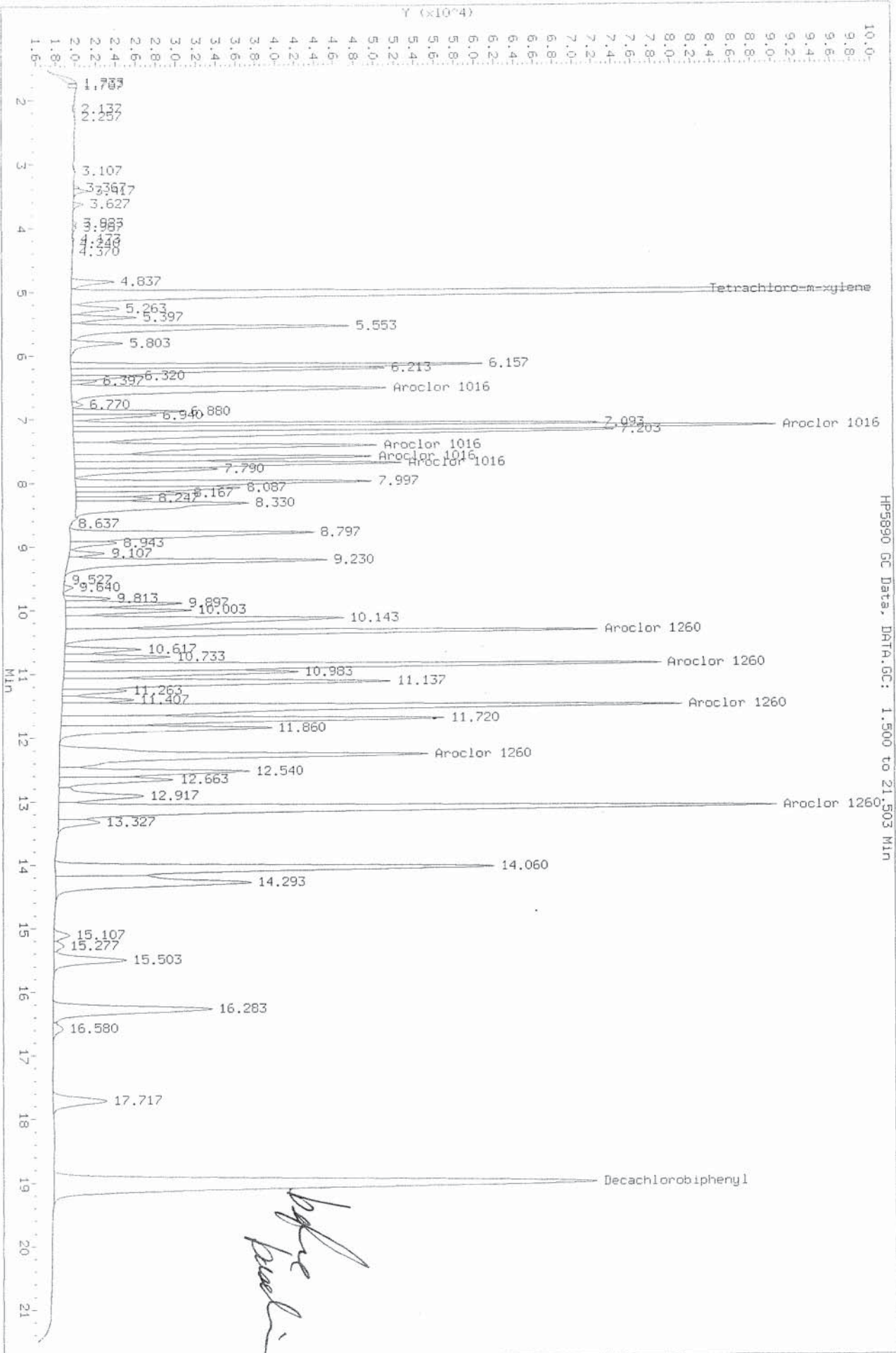


Data File: \Noashi\acq\data\GC09\data\060810_r.b\0608R019.D
 Date: 09-JUN-2010 01:25
 Client ID:
 Sample Info: 1660 @ 1000ppb | PCB5-951 | KJCI005547-4
 Column phase: DB-XLB

Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53

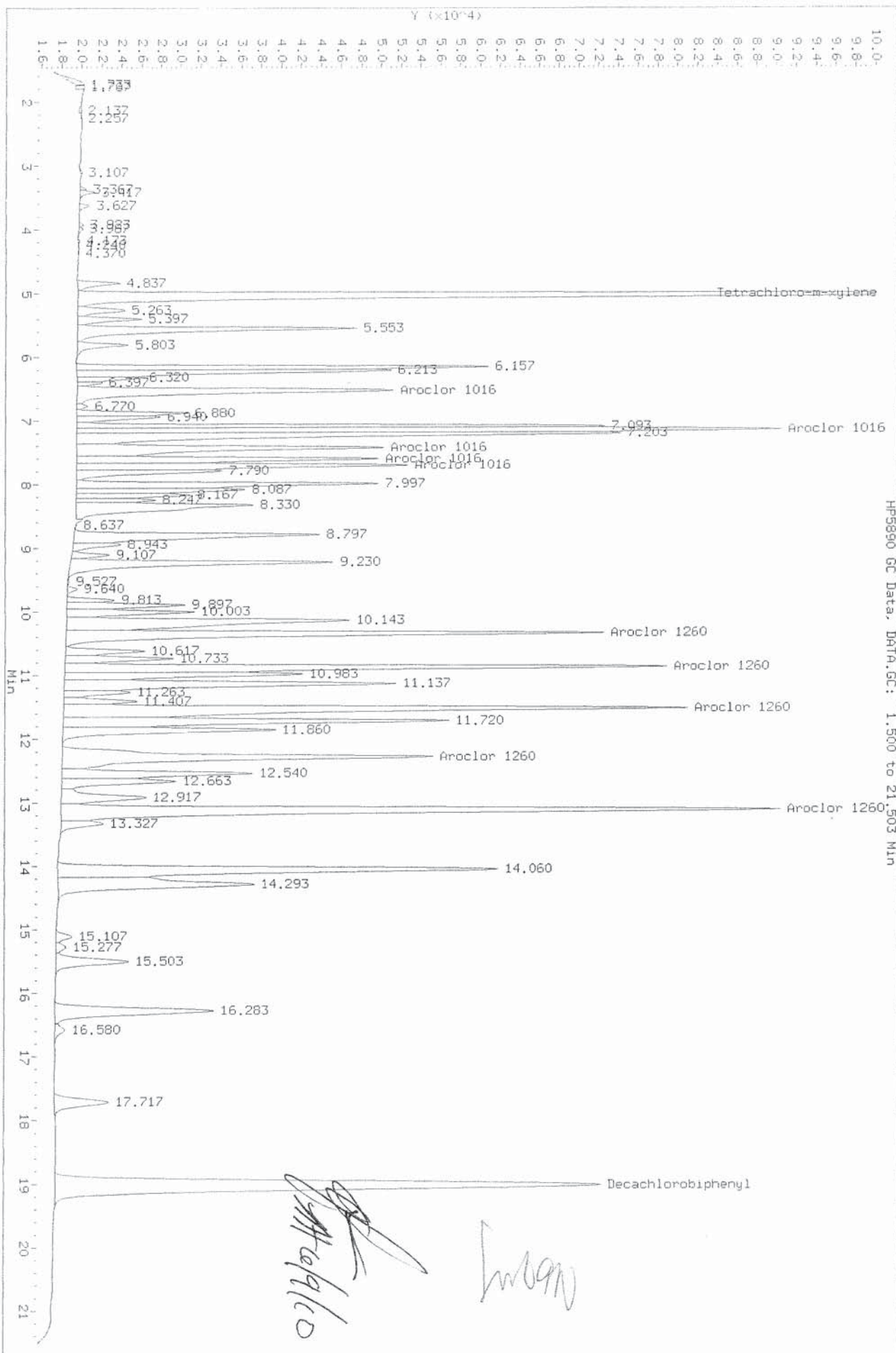


Data File: \\Caash1\ncgdata\GC09\data\060810_r.b\0608R019.D
 Injection Date: 09-JUN-2010 01:25
 Instrument: GC09.1
 Client Sample ID:

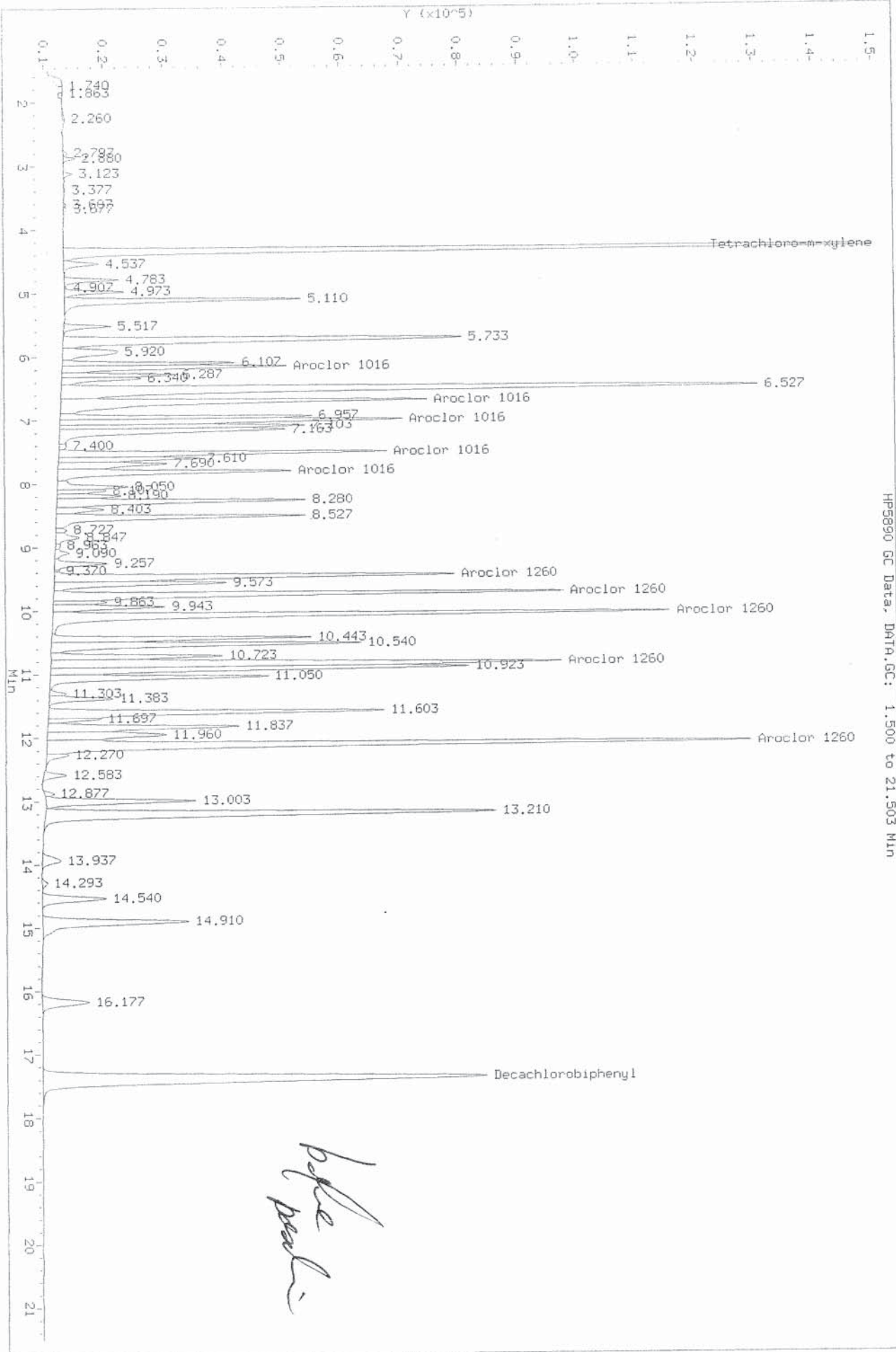


HF5890 GC Data, DATA.GC: 1.500 to 21.503 MIN

Data File: \\Cash1\Acqudata\GC09\data\060810_r.b\0608R019.D
 Injection Date: 09-JUN-2010 01:25
 Instrument: GC09.1
 Client Sample ID:



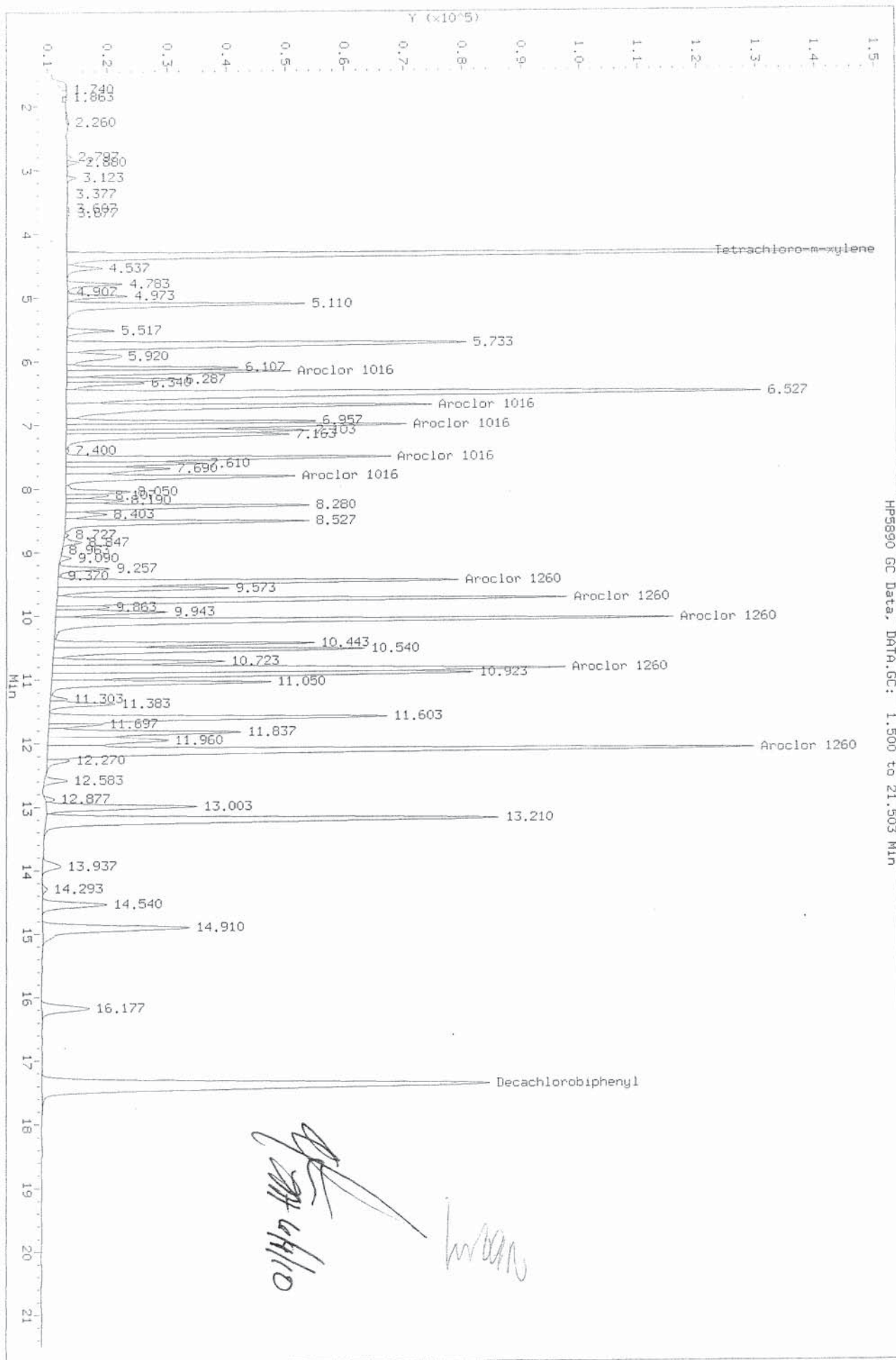
HP5890 GC Data, DATA.GC: 1.500 to 21.503 MIN



HP5890 GC Data, DATA.GC: 1.500 to 21.503 Min

bphe peak

Data File: \\Cash1\Acq\data\GC09\data\060810.b\0608F019.D
 Injection Date: 09-JUN-2010 01:25
 Instrument: GC09.1
 Client Sample ID:



HP5890 GC Data, DATA.GC: 1.500 to 21.503 Min

[Handwritten signatures]

Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Validation Package

Sample Prep and Screen Data

Preparation Information

Group ID: KWG1005541	Prep Method: EPA 3541	Prep Date: 06/02/10 12:00
Department: Semivoa GC		

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1005244-003	D-4-16	8082 PCB_LL	MISC. SOL	22.55g	4mL	
KWG1005541-1	Lab Control Sample	8082 PCB_LL	MISC. SOL	20.00g	4mL	
KWG1005541-2	Method Blank	8082 PCB_LL	MISC. SOL	22.78g	4mL	
KWG1005541-3	Matrix Spike	8082 PCB_LL	MISC. SOL	22.78g	4mL	
KWG1005541-4	Duplicate Matrix Spike	8082 PCB_LL	MISC. SOL	22.33g	4mL	

Lab Code	Parent Lab Code	Comments
KWG1005541-1		KQ1005123-01
KWG1005541-2		KQ1005123-03
KWG1005541-3	K1005244-003	KQ1005123-04
KWG1005541-4	K1005244-003	KQ1005123-05

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1005244-003	917270					SHeflin
KWG1005541-1	917271					SHeflin
KWG1005541-2	917272					SHeflin
KWG1005541-3	917273					SHeflin
KWG1005541-4	917274					SHeflin

Comments: _____

Started By: DWood Assisted By: _____ Training
Yes No

Completed By: km Assisted By: _____ Yes No

Reviewed By: [Signature] Date: 6/8/10 Storage: _____

Chain of Custody

Relinquished By: <u>[Signature]</u>	Date: <u>6-8-10</u>	Extracts Examined
Received By: <u>[Signature]</u>	Date: <u>6/8/10</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>


Columbia Analytical Services Preparation Information Benchsheet

Prep Run: 112728 **Prep Workflow:** OrgExtS (14) **Status:** Prepped
Team: Semivoa **Prep Method:** EPA **Current Step:** Final **Prep Date:** 06/02/2010 12:00
GC **Rush/NPDES:** N/A **Volume** **Due Date:** 06/01/2010
Analyst: DWood

Lab Code	Client ID	Bottle #	Target Amt	Initial Amt	Final Volume	TestNo List	Comments
K1005244-003	D-4-16	.03	22.05 g	22.55 g	4 mL	PCB_LL	
KQ1005123-01	Lab Control Sample		20.00 g	20.00 g	4 mL	PCB_LL	
KQ1005123-03	Method Blank		20.00 g	22.78 g	4 mL	PCB_LL	
K1005244-003: KQ1005123-04	Matrix Spike	.03	20.00 g	22.78 g	4 mL	PCB_LL	
K1005244-003: KQ1005123-05	Duplicate Matrix Spike	.03	20.00 g	22.33 g	4 mL	PCB_LL	

5 Total Samples consisting of 1 Client Sample, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.



Spiking Solutions**Witness:** SHEflin**Preparation Steps**

Step	Started	Finished	By	Assisted By	Training?	Comments
Extraction	02-JUN-10 12:00	02-JUN-10 12:00	DWood		N	
Final Volume	08-JUN-10 12:00	08-JUN-10 12:00	km		N	

Comments**Review**

Reviewed by: _____ Date: _____

Chain of Custody

Relinquished By:		Date:	6/8-10	Extracts/Digestions Examined	
Received By:		Date:	6/8/10		
				Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Columbia Analytical Services Preparation Information Benchsheet

Prep Run: 112728 **Prep Workflow:** OrgExtS (14) **Status:** Draft **Prep Date:** 06/02/2010 05:46
Team: Semivoa GC **Prep Method:** EPA 3541 **Current Step:** Extraction **Due Date:** 06/01/2010
Analyst: DWOOD **Rush/NPDES:** N/A

Lab Code	Client ID	Bottle #	✓	Target Amt	Initial Amount	Inter. Volume	Final Volume	Surr Amt	Spike Amt	TestNo List
K1005244-003	D-4-16	.03		22.05 g	22.55	NA	4ml	200ul	NA	PCB_LL
KQ1005123-01	Lab Control Sample			20.00 g	20.00	↓	↓	↓	100ul	PCB_LL
KQ1005123-03	Method Blank			20.00 g	22.78	↓	↓	↓	NA	PCB_LL
K1005244-003: KQ1005123-04	Matrix Spike	.03		20.00 g	22.78	↓	↓	↓	100ul	PCB_LL
K1005244-003: KQ1005123-05	Duplicate Matrix Spike	.03		20.00 g	22.33	↓	↓	↓	↓	PCB_LL

5 Total Samples consisting of 1 Client Sample, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Witness: SH 6-2-10

PCBS-55L 2ug/ml 200ul exp 11-26-10

PCBS-49L 4ug/ml 100ul exp 7-27-10

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Extraction	6-2-10	6-8-10	smfor/DW			
Final Volume	6-8-10	K				

Comments

Additional Prep Information for Pest/PCB in Soil by EPA 3541

Service Request # K1005244 Work Group # Pest: _____

PCB: KQ1005123

Extraction (3541):

Sulfate Lot # G201002SP Matrix Sand Lot # 1-14-10

DCM Lot # DA328

Soxtherm Start (Time/Date/Initial): 0928-0900 6-2-10 DWJSH

Soxtherm Stop (Time/Date/Initial): _____

Clean-ups:

GPC Clean-up (3640): _____ (Initial/Date)

Solvent Exchanged To Hexane (Initial/Date): 6-4-10 SM S-Evap Temp: _____

Hexane Lot # 49343 N-Evap Temp: 35°C

Carbon Clean-up: _____ 4:1 Hexane/DCM Lot # _____

Florisil Clean-up (3620): _____ Florisil Lot # _____

1:1 Hexane/Acetone Lot # _____ 9:1 Hexane/Acetone Lot # _____

Sulfuric Acid Clean-up (3665): 6-4-10 SM Sulfuric Acid Lot # 47264

Sulfur Clean-up (3660M): 6-8-10 K Mercury Lot # 48219908

Pesticide Vials: _____ Vial Storage: _____

PCB Vials: Green Vial Storage: Gooff 815

Archived Extract Storage: Archived

Comments/Observations: _____

Bench Sheet Review Check List	
<input type="checkbox"/>	Hold Times Met (if no, Reason: _____)
<input type="checkbox"/>	Prep date, dept, method, product code correct in stealth
<input type="checkbox"/>	Spike Information correct
<input type="checkbox"/>	Weights/Volumes and units correct on raw and final bench sheets
<input type="checkbox"/>	Sample IDs have been checked—Bottle numbers appended if required
<input type="checkbox"/>	Names present for: Started by, Completed by, relinquished by, and witnessed by.
<input type="checkbox"/>	Training has been circled
<input type="checkbox"/>	Extract Storage recorded
<input type="checkbox"/>	Additional Prep Sheet completely filled out (NA or line out Blanks)
<input type="checkbox"/>	All clean-ups have been noted on additional prep sheet
<input type="checkbox"/>	Signed service request with Form V, if applicable, has been attached

Sequence Name: D:\GC09\SEQUENCE\060810.S
 Comment: PCB Aroclors by EPA 8082
 Operator: LHarris
 Data Path: D:\GC09\DATA\060810.B\
 Pre-Seq Cmd:
 Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch
 (X) Full Method (X) Inject Anyway
 () Reprocessing Only () Don't Inject

Line Type Vial DataFile Method Sample Name

10AL 9510

Run # 204050

OK, OK

X, OK

S, OK

Line Type	Vial	DataFile	Method	Sample Name	
1	DeleteGC				
2	MaskName	-----r---			
3	IB	1 0608F001	PCB_REG	IB	
4	IB	2 0608F002	PCB_REG	KWG1005547-1	IB 8082 PCB
5	CCV	96 0608F003	PCB_REG	1660 @ 1000ppb	PCB5-55I KWG100554
6	SMPL	3 0608F004	PCB_REG	K1005477-002	Influent 5/25
7	MB	4 0608F005	PCB_REG	KWG1005541-2	MB 8082 PCB_LL MIS
8	LCS	5 0608F006	PCB_REG	KWG1005541-1	LCS 8082 PCB_LL MI
9	SMPL	6 0608F007	PCB_REG	K1005244-003	D-4-16
10	MS	7 0608F008	PCB_REG	KWG1005541-3	K1005244-003MS 8082
11	DMS	8 0608F009	PCB_REG	KWG1005541-4	K1005244-003DMS 8082
12	MB	9 0608F010	PCB_REG	KWG1005543-4	MB 8082 PCB SEDIME
13	LCS	10 0608F011	PCB_REG	KWG1005543-3	LCS 8082 PCB SEDIM
14	SMPL	11 0608F012	PCB_REG	K1005351-010	SJNE 050-GR1
15	MS	12 0608F013	PCB_REG	KWG1005543-1	K1005351-010MS 8082
16	DMS	13 0608F014	PCB_REG	KWG1005543-2	K1005351-010DMS 8082
17	SMPL	14 0608F015	PCB_REG	K1005351-015	SJNE 067-GR1
18	SMPL	15 0608F016	PCB_REG	K1005351-016	SJNE 069-GR1
19	IB	1 0608F017	PCB_REG	IB	
20	IB	2 0608F018	PCB_REG	KWG1005547-3	IB 8082 PCB
21	CCV	96 0608F019	PCB_REG	1660 @ 1000ppb	PCB5-55I KWG100554
22	SMPL	16 0608F020	PCB_REG	K1005351-017	SJNE 070-GR1
23	SMPL	17 0608F021	PCB_REG	K1005351-021	SJNE 066-GR1
24	SMPL	18 0608F022	PCB_REG	K1005353-004	SJGB 013 S4
25	SMPL	19 0608F023	PCB_REG	K1005353-006	SJGB 014 S1-NR, need 20X
26	SMPL	20 0608F024	PCB_REG	K1005353-010	SJGB 014 S5
27	SMPL	21 0608F025	PCB_REG	K1005353-015	SJGB 015 S5
28	SMPL	22 0608F026	PCB_REG	K1005353-018	SJGB 016 S3
29	SMPL	23 0608F027	PCB_REG	K1005353-024	SJGB 017 S5
30	SMPL	24 0608F028	PCB_REG	K1005423-001	ACS-6
31	SMPL	25 0608F029	PCB_REG	K1005423-002	ACS-7
32	IB	1 0608F030	PCB_REG	IB	
33	IB	2 0608F031	PCB_REG	KWG1005547-5	IB 8082 PCB
34	CCV	96 0608F032	PCB_REG	1660 @ 1000ppb	PCB5-55I KWG100554

Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810.B\0608F002.D
Lab ID: KWG1005547-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/08/2010 18:01
Date Quantitated: 06/09/2010 10:28
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____


Exception Report

Data File: \\CASH1\ACQUATA\GC09\DATA\060810_R.B\0608R002.D
Lab ID: KWG1005547-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/08/2010 18:01
Date Quantitated: 06/09/2010 10:29
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 

Secondary Review: 

Quantitation Report

Bottle ID:	Tier:	Matrix:	NOT APPLICABL
Prod Code: 8082 PCB	Collect Date:	Receive Date:	06/08/2010

Analysis Lot: KWG1005547	Prep Lot:	Report Group:
Analysis Method: 8082	Prep Method:	
Prep Ref:	Prep Date:	

Quant Method: \\CASH1\ACQUIDATA\GC09\DATA\060810.B\052710A_F.M	Calibration ID: CAL9510
Title:	Method ID: MJ731
MB Ref:	Quant based on Method

Data File #1: J:\GC09\DATA\060810.B\0608F002.D	Instrument: GC09.i
Data File #2: \\cash1\acquadata\GC09\data\060810_r_b\0608R002.D	Vial: 2
Acqu Date: 06/08/2010 18:01	Quant Date: 06/09/2010 10:28
Run Type: IB	Dilution: 1.0
Lab ID: KWG1005547-1	Soln Conc. Units: ng/mL
Signal #1: DB-35MS	Signal #2: DB-XLB

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2	Final Conc. Units:		Rpt
Tetrachloro-m-xylene	0.00		0d	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	35-133	

Target Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1221 {4}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL, also found in Method Blank
 F: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

* Result fails acceptance criteria
 # Acceptance criteria not applicable
 ? Insufficient information to determine acceptance
 e Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC09\DATA\060810.B\0608F002.D	Instrument:	GC09.1
Data File #2:	\\cash1\acqdata\GC09\data\060810_r_b\0608R002.D	Vial:	2
Acq Date:	06/08/2010 18:01	Quant Date:	06/09/2010 10:28
Run Type:	IB	Dilution:	1.0
Lab ID:	KWG1005547-1	Soln Conc. Units:	ng/mL
Signal #1:	DB-35MS	Signal #2:	DB-XLB

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0	0.0000	0.0000			
Aroclor 1254 {2}			0	0	0.0000	0.0000			
Aroclor 1254 {3}			0	0	0.0000	0.0000			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			
Aroclor 1268 {5}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
 F: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File: \\cash1\acqdata\GC09\data\060810.b\0608F002.D
Report Date: 09-Jun-2010 10:28

Laboratory Name

Sample #1 : \\cash1\acqdata\GC09\data\060810.b\0608F002.D
Sample #2 : \\cash1\acqdata\GC09\data\060810_r.b\0608R002.D
Inj Date : 08-JUN-2010 18:01
Sample Info: KWG1005547-1 | IB | 8082 PCB
Misc Info : SEMIVOA GC\W1005547\1-IB.H
Cal Date : 08-JUN-2010 12:20
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

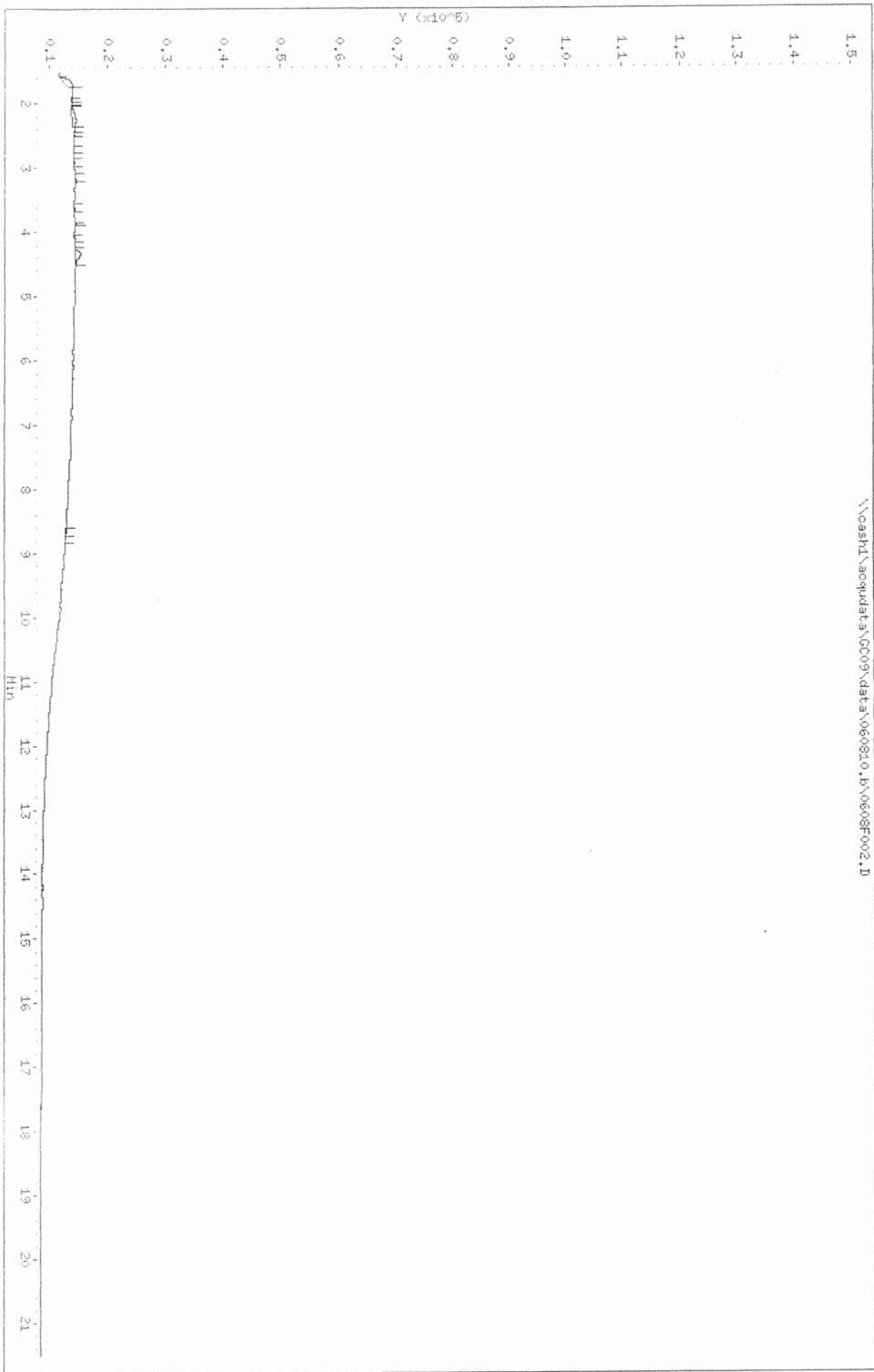
Method #1 : \\Cash1\Acqdata\GC09\data\060810.b\052710A_f.m
Method #2 : \\Cash1\Acqdata\GC09\data\060810_r.b\052710A_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
----------	------	------	--------	--------	--------	--------	--------------	-------

Data File: \\casshl\apoc\data\GC09\data\060810.B\0608F002.D
Date: 08-JUN-2010 18:01
Client ID:
Sample Info: KMCI005547-1 | IB | 8082 PCB
Column phase: DB-35MS

Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

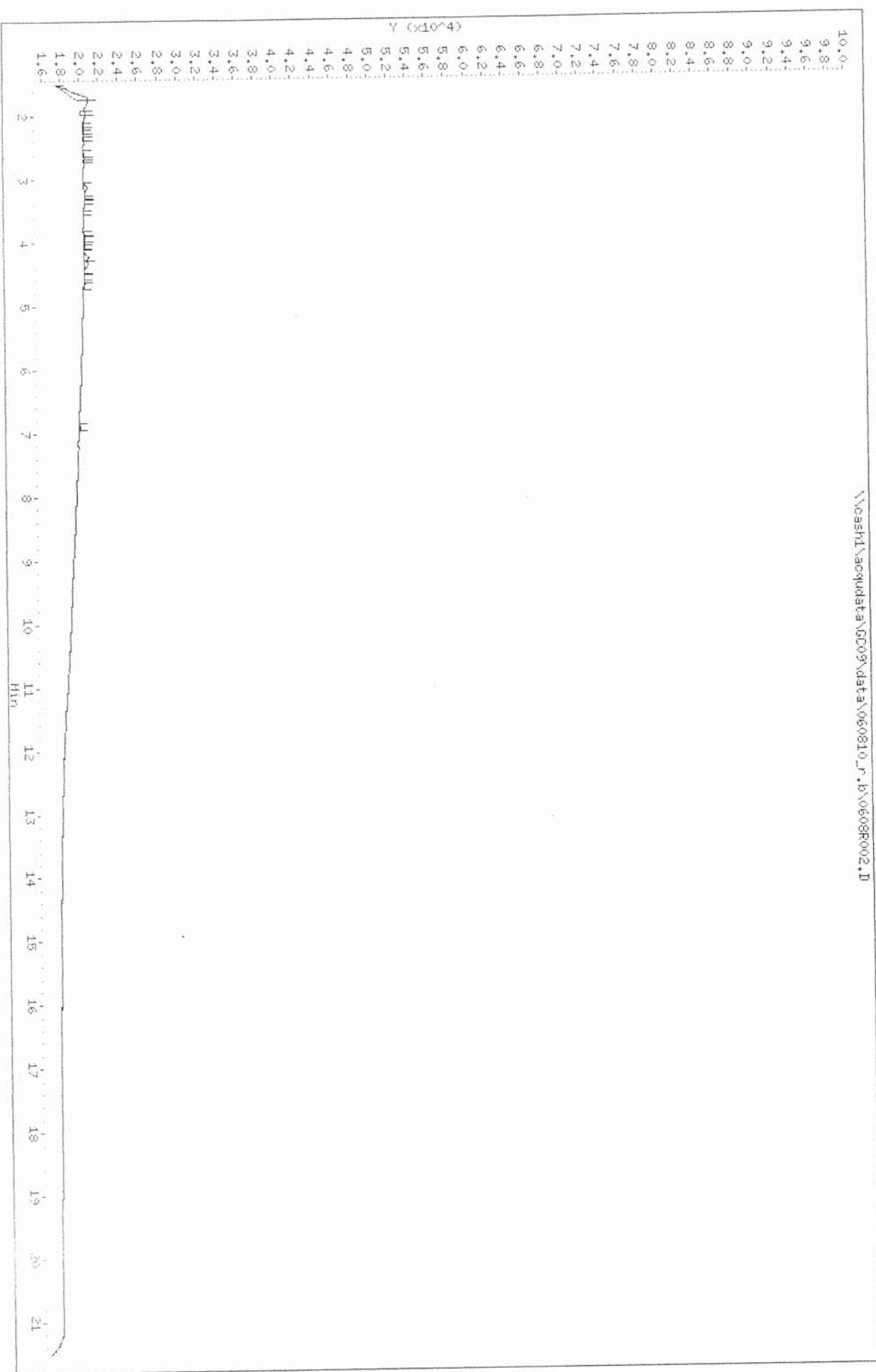
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Data File: \\ncash1\acq\data\GC09\data\060810_r.b\0608R002.D
 Date: 08-JUN-2010 18:01
 Client ID:
 Sample Info: KNC10005547-1 | IB | 8082 PCB
 Column Phase: DB-XLB

Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53

\\ncash1\acq\data\GC09\data\060810_r.b\0608R002.D



Exception Report

Data File: \\CASH\ACQU\DATA\GC09\DATA\060810.B\0608F018.D
Lab ID: KWG1005547-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/09/2010 00:59
Date Quantitated: 06/09/2010 10:29
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: *[Signature]*

Secondary Review: *[Signature]*

Exception Report

Data File: \\CASH1\ACQU\DATA\GC09\DATA\060810_R.B\0608R018.D
Lab ID: KWG1005547-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 06/09/2010 00:59
Date Quantitated: 06/09/2010 10:30
Batch ID: KWG1005547
Analysis Method: 8082
MethodJoinID: MJ579

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: 

Secondary Review: 

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 8082 PCB	Collect Date:	NOT APPLICABLE
		Receive Date: 06/08/2010

Analysis Lot: KWG1005547	Prep Lot:	Report Group:
Analysis Method: 8082	Prep Method:	
Prep Ref:	Prep Date:	

Quant Method: \\CASHI\ACQU\DATA\GC09\DATA\060810.B\052710A_F.M	Calibration ID: CAL9510
Title:	
MB Ref:	Method ID: MJ579
	Quant based on Method

Data File #1: J:\GC09\DATA\060810.B\0608F018.D	Instrument: GC09.i
Data File #2: \\cash1\acq\data\GC09\data\060810_r.b\0608R018.D	Vial: 2
Acqu Date: 06/09/2010 00:59	Quant Date: 06/09/2010 10:29
Run Type: IB	Dilution: 1.0
Lab ID: KWG1005547-3	Soln Conc. Units: ng/mL
Signal #1: DB-35MS	Signal #2: DB-XLB

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	Final Conc. Units: ug/L		Rpt
							ug/L #1	ug/L #2	
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1221 {4}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File #1:	J:\GC09\DATA\060810.B\0608F018.D	Instrument:	GC09.i
Data File #2:	\\cash1\acq\data\GC09\data\060810_r.b\0608R018.D	Vial:	2
Acqu Date:	06/09/2010 00:59	Quant Date:	06/09/2010 10:29
Run Type:	IB	Dilution:	1.0
Lab ID:	KWG1005547-3	Soln Conc. Units:	ng/mL
Signal #1:	DB-35MS	Signal #2:	DB-XLB

Target Compounds Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0	0.0000	0.0000			
Aroclor 1248 {2}			0d	0	0.0000	0.0000			
Aroclor 1248 {3}			0d	0	0.0000	0.0000			
Aroclor 1248 {4}			0d	0	0.0000	0.0000			
Aroclor 1248 {5}			0d	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0	0.0000	0.0000			
Aroclor 1254 {2}			0	0	0.0000	0.0000			
Aroclor 1254 {3}			0	0	0.0000	0.0000			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			
Aroclor 1268 {5}			0	0	0.0000	0.0000			

U Undetected at or above MDL
 F Analyte detected above MDL, but below MRL
 B Hit above MRL, also found in Method Blank
 E Analyte concentration above high point of ICAL
 N Presumptive evidence of compound

D Result from dilution
 m Manual integration performed
 d Compound manually deleted
 NR Analyte not reported from this analysis

* Result fails acceptance criteria
 # Acceptance criteria not applicable
 ? Insufficient information to determine acceptance
 e Result >= MRL, but MRL less than low point of ICAL
 c check for co-elution

Data File: \\cash1\acqdata\GC09\data\060810.b\0608F018.D
Report Date: 09-Jun-2010 10:29

Laboratory Name

Sample #1 : \\cash1\acqdata\GC09\data\060810.b\0608F018.D
Sample #2 : \\cash1\acqdata\GC09\data\060810_r.b\0608R018.D
Inj Date : 09-JUN-2010 00:59
Sample Info: KWG1005547-3 | IB | 8082 PCB
Misc Info : SEMIOVA GC\W1005547\3-IB.H
Cal Date : 09-JUN-2010 08:48
Operator : LHarris
Inst ID : GC09.i
Dil Factor : 1.000000

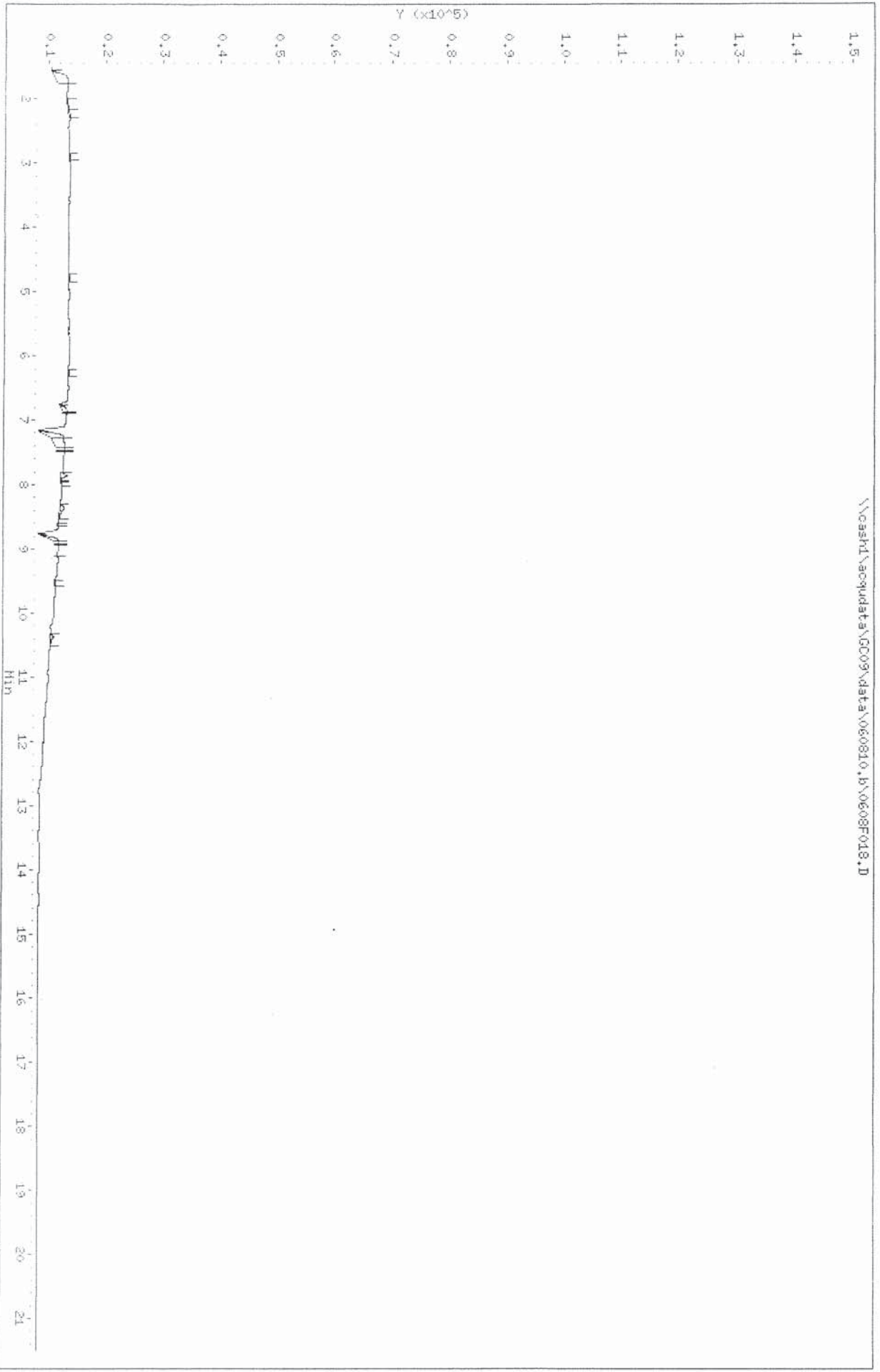
Method #1 : \\Cash1\Acqdata\GC09\data\060810.b\052710A_f.m
Method #2 : \\Cash1\Acqdata\GC09\data\060810_r.b\052710A_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
----------	------	------	--------	--------	--------	--------	--------------	-------

Data File: \\ncashd\accqudata\GC09\data\060810.B\0608F018.D
Date: 09-JUN-2010 00:59
Client ID:
Sample Info: KMCI005547-3 | IB | 8082 PCB
Column phase: DB-35MS

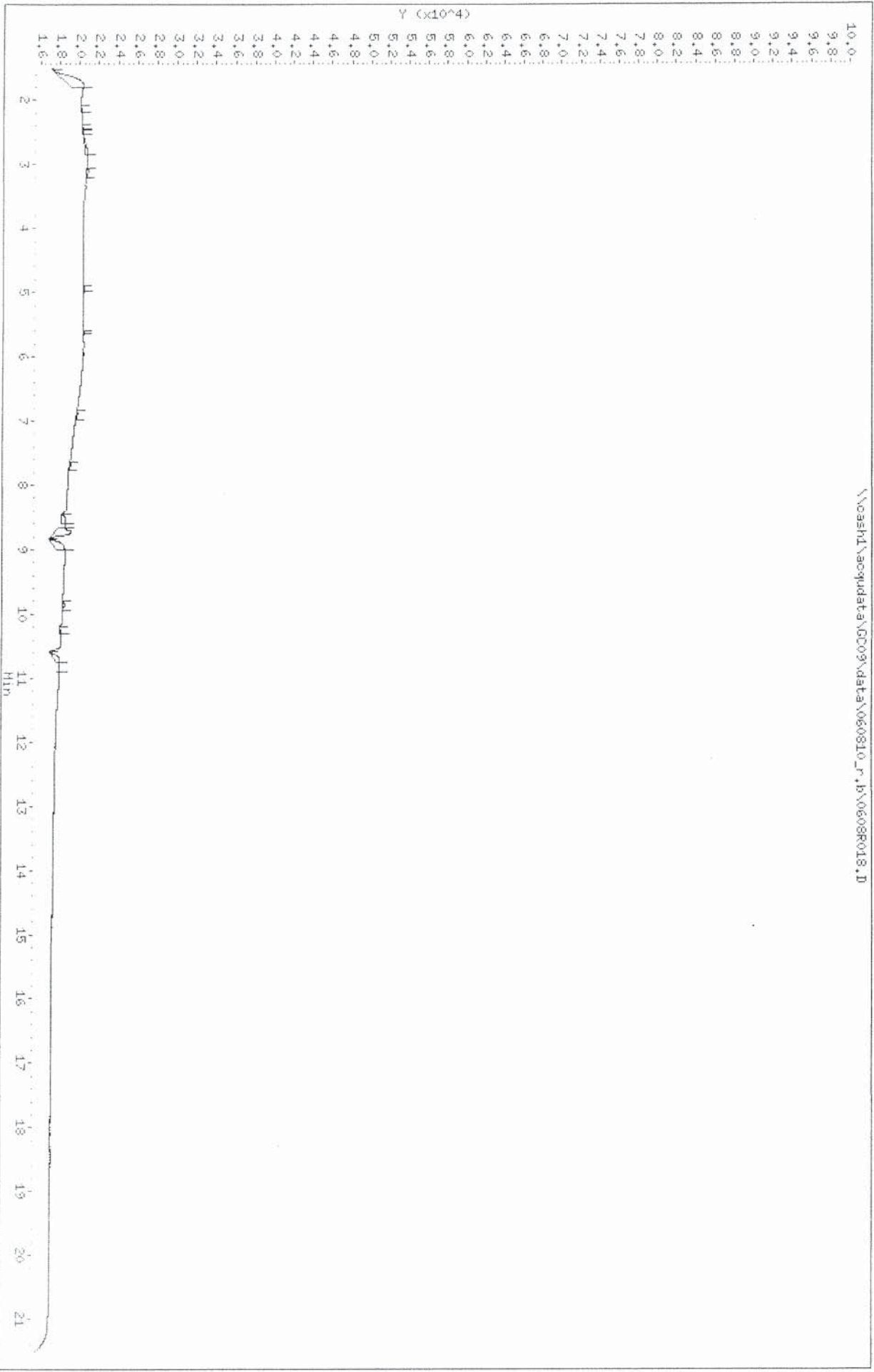
Instrument: GC09.1
Operator: LHarris
Column diameter: 0.53

\\ncashd\accqudata\GC09\data\060810.B\0608F018.D



Data File: \nosah1\acq\data\GC09\data\060810_r_b\0608R018.D
 Date : 09-JUN-2010 00:59
 Client ID:
 Sample Info: KMC1005547-3 | IB | 8082 PCB
 Column phase: DB-XLB

Instrument: GC09.1
 Operator: LHarris
 Column diameter: 0.53



Volatile Organic Compounds

Organic Analysis:
Volatile Organic Compounds

Summary Package

Sample and QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244

**Cover Page - Organic Analysis Data Package
Volatile Organic Compounds**

Sample Name	Lab Code	Date Collected	Date Received
D-4-16	K1005244-003	05/19/2010	05/21/2010
D-4-16MS	KWG1004900-1	05/19/2010	05/21/2010
D-4-16DMS	KWG1004900-2	05/19/2010	05/21/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: *K. Krasner*

Name: *K. Krasner*

Date: *6/11/10*

Title: *Scientist*

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16
Lab Code: K1005244-003
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
Chloromethane	ND	U	5.6	0.51	1	05/25/10	05/25/10	KWG1004900	
Vinyl Chloride	ND	U	5.6	0.35	1	05/25/10	05/25/10	KWG1004900	
Bromomethane	ND	U	5.6	0.69	1	05/25/10	05/25/10	KWG1004900	
Chloroethane	ND	U	5.6	0.35	1	05/25/10	05/25/10	KWG1004900	
Trichlorofluoromethane	ND	U	5.6	0.24	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloroethene	ND	U	5.6	0.26	1	05/25/10	05/25/10	KWG1004900	
Acetone	13	J	23	4.3	1	05/25/10	05/25/10	KWG1004900	
Carbon Disulfide	ND	U	5.6	0.29	1	05/25/10	05/25/10	KWG1004900	
Methylene Chloride	1.7	J	12	0.48	1	05/25/10	05/25/10	KWG1004900	
trans-1,2-Dichloroethene	ND	U	5.6	0.39	1	05/25/10	05/25/10	KWG1004900	*
1,1-Dichloroethane	ND	U	5.6	0.23	1	05/25/10	05/25/10	KWG1004900	
2,2-Dichloropropane	ND	U	5.6	0.40	1	05/25/10	05/25/10	KWG1004900	
cis-1,2-Dichloroethene	ND	U	5.6	0.26	1	05/25/10	05/25/10	KWG1004900	
2-Butanone (MEK)	4.0	J	23	1.1	1	05/25/10	05/25/10	KWG1004900	
Bromochloromethane	ND	U	5.6	0.16	1	05/25/10	05/25/10	KWG1004900	
Chloroform	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,1,1-Trichloroethane (TCA)	ND	U	5.6	0.39	1	05/25/10	05/25/10	KWG1004900	
Carbon Tetrachloride	ND	U	5.6	0.40	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloropropene	ND	U	5.6	0.30	1	05/25/10	05/25/10	KWG1004900	
Benzene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloroethane (EDC)	ND	U	5.6	0.17	1	05/25/10	05/25/10	KWG1004900	
Trichloroethene (TCE)	ND	U	5.6	0.30	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloropropane	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
Dibromomethane	ND	U	5.6	0.31	1	05/25/10	05/25/10	KWG1004900	
Bromodichloromethane	ND	U	5.6	0.17	1	05/25/10	05/25/10	KWG1004900	
cis-1,3-Dichloropropene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
4-Methyl-2-pentanone (MIBK)	ND	U	23	0.82	1	05/25/10	05/25/10	KWG1004900	
Toluene	ND	U	5.6	0.20	1	05/25/10	05/25/10	KWG1004900	
trans-1,3-Dichloropropene	ND	U	5.6	0.38	1	05/25/10	05/25/10	KWG1004900	
1,1,2-Trichloroethane	ND	U	5.6	0.26	1	05/25/10	05/25/10	KWG1004900	
Tetrachloroethene (PCE)	ND	U	5.6	0.29	1	05/25/10	05/25/10	KWG1004900	
2-Hexanone	ND	U	23	1.1	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichloropropane	ND	U	5.6	0.23	1	05/25/10	05/25/10	KWG1004900	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16
Lab Code: K1005244-003
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	5.6	0.21	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromoethane (EDB)	ND	U	23	0.30	1	05/25/10	05/25/10	KWG1004900	
Chlorobenzene	ND	U	5.6	0.28	1	05/25/10	05/25/10	KWG1004900	
Ethylbenzene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,1,1,2-Tetrachloroethane	ND	U	5.6	0.28	1	05/25/10	05/25/10	KWG1004900	
m,p-Xylenes	ND	U	5.6	0.41	1	05/25/10	05/25/10	KWG1004900	
o-Xylene	ND	U	5.6	0.15	1	05/25/10	05/25/10	KWG1004900	
Styrene	ND	U	5.6	0.15	1	05/25/10	05/25/10	KWG1004900	
Bromoform	ND	U	5.6	0.34	1	05/25/10	05/25/10	KWG1004900	
Isopropylbenzene	ND	U	23	0.15	1	05/25/10	05/25/10	KWG1004900	
1,1,2,2-Tetrachloroethane	ND	U	5.6	0.40	1	05/25/10	05/25/10	KWG1004900	
Bromobenzene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
n-Propylbenzene	ND	U	23	0.40	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichloropropane	ND	U	5.6	0.42	1	05/25/10	05/25/10	KWG1004900	
2-Chlorotoluene	ND	U	23	0.32	1	05/25/10	05/25/10	KWG1004900	
1,3,5-Trimethylbenzene	ND	U	23	0.40	1	05/25/10	05/25/10	KWG1004900	
4-Chlorotoluene	ND	U	23	0.29	1	05/25/10	05/25/10	KWG1004900	
tert-Butylbenzene	ND	U	23	0.37	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trimethylbenzene	ND	U	23	0.31	1	05/25/10	05/25/10	KWG1004900	
sec-Butylbenzene	ND	U	23	0.35	1	05/25/10	05/25/10	KWG1004900	
4-Isopropyltoluene	ND	U	23	0.31	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichlorobenzene	ND	U	5.6	0.27	1	05/25/10	05/25/10	KWG1004900	
1,4-Dichlorobenzene	ND	U	5.6	0.28	1	05/25/10	05/25/10	KWG1004900	
n-Butylbenzene	ND	U	23	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichlorobenzene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromo-3-chloropropane	ND	U	23	0.73	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trichlorobenzene	ND	U	23	0.26	1	05/25/10	05/25/10	KWG1004900	
Hexachlorobutadiene	ND	U	23	0.24	1	05/25/10	05/25/10	KWG1004900	
Naphthalene	ND	U	23	0.40	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichlorobenzene	ND	U	23	0.24	1	05/25/10	05/25/10	KWG1004900	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16
Lab Code: K1005244-003

Units: ug/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	83-128	05/25/10	Acceptable
Toluene-d8	108	90-125	05/25/10	Acceptable
4-Bromofluorobenzene	103	77-124	05/25/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1004900-5
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
Chloromethane	ND	U	5.0	0.46	1	05/25/10	05/25/10	KWG1004900	
Vinyl Chloride	ND	U	5.0	0.31	1	05/25/10	05/25/10	KWG1004900	
Bromomethane	ND	U	5.0	0.62	1	05/25/10	05/25/10	KWG1004900	
Chloroethane	ND	U	5.0	0.31	1	05/25/10	05/25/10	KWG1004900	
Trichlorofluoromethane	ND	U	5.0	0.21	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloroethene	ND	U	5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
Acetone	6.3	J	20	3.9	1	05/25/10	05/25/10	KWG1004900	
Carbon Disulfide	ND	U	5.0	0.26	1	05/25/10	05/25/10	KWG1004900	
Methylene Chloride	1.5	J	10	0.43	1	05/25/10	05/25/10	KWG1004900	
trans-1,2-Dichloroethene	ND	U	5.0	0.35	1	05/25/10	05/25/10	KWG1004900	*
1,1-Dichloroethane	ND	U	5.0	0.20	1	05/25/10	05/25/10	KWG1004900	
2,2-Dichloropropane	ND	U	5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
cis-1,2-Dichloroethene	ND	U	5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
2-Butanone (MEK)	2.3	J	20	0.99	1	05/25/10	05/25/10	KWG1004900	
Bromochloromethane	ND	U	5.0	0.14	1	05/25/10	05/25/10	KWG1004900	
Chloroform	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.35	1	05/25/10	05/25/10	KWG1004900	
Carbon Tetrachloride	ND	U	5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloropropene	ND	U	5.0	0.27	1	05/25/10	05/25/10	KWG1004900	
Benzene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.15	1	05/25/10	05/25/10	KWG1004900	
Trichloroethene (TCE)	ND	U	5.0	0.27	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloropropane	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
Dibromomethane	ND	U	5.0	0.28	1	05/25/10	05/25/10	KWG1004900	
Bromodichloromethane	ND	U	5.0	0.15	1	05/25/10	05/25/10	KWG1004900	
cis-1,3-Dichloropropene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
4-Methyl-2-pentanone (MIBK)	ND	U	20	0.74	1	05/25/10	05/25/10	KWG1004900	
Toluene	ND	U	5.0	0.18	1	05/25/10	05/25/10	KWG1004900	
trans-1,3-Dichloropropene	ND	U	5.0	0.34	1	05/25/10	05/25/10	KWG1004900	
1,1,2-Trichloroethane	ND	U	5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
Tetrachloroethene (PCE)	ND	U	5.0	0.26	1	05/25/10	05/25/10	KWG1004900	
2-Hexanone	ND	U	20	0.93	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichloropropane	ND	U	5.0	0.20	1	05/25/10	05/25/10	KWG1004900	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1004900-5
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	5.0	0.19	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromoethane (EDB)	ND	U	20	0.27	1	05/25/10	05/25/10	KWG1004900	
Chlorobenzene	ND	U	5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
Ethylbenzene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
m,p-Xylenes	ND	U	5.0	0.37	1	05/25/10	05/25/10	KWG1004900	
o-Xylene	ND	U	5.0	0.13	1	05/25/10	05/25/10	KWG1004900	
Styrene	ND	U	5.0	0.13	1	05/25/10	05/25/10	KWG1004900	
Bromoform	ND	U	5.0	0.30	1	05/25/10	05/25/10	KWG1004900	
Isopropylbenzene	ND	U	20	0.13	1	05/25/10	05/25/10	KWG1004900	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
Bromobenzene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
n-Propylbenzene	ND	U	20	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichloropropane	ND	U	5.0	0.38	1	05/25/10	05/25/10	KWG1004900	
2-Chlorotoluene	ND	U	20	0.29	1	05/25/10	05/25/10	KWG1004900	
1,3,5-Trimethylbenzene	ND	U	20	0.36	1	05/25/10	05/25/10	KWG1004900	
4-Chlorotoluene	ND	U	20	0.26	1	05/25/10	05/25/10	KWG1004900	
tert-Butylbenzene	ND	U	20	0.33	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trimethylbenzene	ND	U	20	0.28	1	05/25/10	05/25/10	KWG1004900	
sec-Butylbenzene	ND	U	20	0.31	1	05/25/10	05/25/10	KWG1004900	
4-Isopropyltoluene	ND	U	20	0.28	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichlorobenzene	ND	U	5.0	0.24	1	05/25/10	05/25/10	KWG1004900	
1,4-Dichlorobenzene	ND	U	5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
n-Butylbenzene	ND	U	20	0.32	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichlorobenzene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromo-3-chloropropane	ND	U	20	0.66	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trichlorobenzene	ND	U	20	0.23	1	05/25/10	05/25/10	KWG1004900	
Hexachlorobutadiene	ND	U	20	0.21	1	05/25/10	05/25/10	KWG1004900	
Naphthalene	ND	U	20	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichlorobenzene	ND	U	20	0.21	1	05/25/10	05/25/10	KWG1004900	

* See Case Narrative

Comments:

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1004900-5

Units: ug/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	83-128	05/25/10	Acceptable
Toluene-d8	110	90-125	05/25/10	Acceptable
4-Bromofluorobenzene	104	77-124	05/25/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244

**Surrogate Recovery Summary
Volatile Organic Compounds**

Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
D-4-16	K1005244-003	100	108	103
Method Blank	KWG1004900-5	100	110	104
D-4-16MS	KWG1004900-1	99	109	108
D-4-16DMS	KWG1004900-2	102	114	107
Lab Control Sample	KWG1004900-3	94	105	110
Duplicate Lab Control Sample	KWG1004900-4	100	115	109

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	83-128
Sur2 = Toluene-d8	90-125
Sur3 = 4-Bromofluorobenzene	77-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 05/25/2010
Time Analyzed: 10:34

**Internal Standard Area and RT Summary
 Volatile Organic Compounds**

File ID: J:\MS24\DATA\052510\0525F004.D
Instrument ID: MS24
Analysis Method: 8260B

Lab Code: KWG1004880-2
Analysis Lot: KWG1004880

		Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
		<u>Area</u>	<u>RT</u>	<u>Area</u>	<u>RT</u>	<u>Area</u>	<u>RT</u>
Results ==>		367,346	4.02	157,615	6.65	137,921	8.98
Upper Limit ==>		734,692	4.52	315,230	7.15	275,842	9.48
Lower Limit ==>		183,673	3.52	78,808	6.15	68,961	8.48
ICAL Result ==>		321,724	4.02	137,440	6.65	130,674	8.98
Associated Analyses							
Lab Control Sample	KWG1004900-3	418,826	4.02	167,585	6.65	148,678	8.98
Duplicate Lab Control Sample	KWG1004900-4	355,415	4.02	159,438	6.65	144,430	8.98
Method Blank	KWG1004900-5	348,737	4.02	149,494	6.65	128,420	8.98
D-4-16	K1005244-003	342,019	4.02	146,554	6.65	116,925	8.98
D-4-16MS	KWG1004900-1	420,529	4.02	177,982	6.65	145,052	8.98
D-4-16DMS	KWG1004900-2	367,092	4.02	163,841	6.65	139,592	8.98

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010

**Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds**

Sample Name: D-4-16
Lab Code: K1005244-003
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1004900

Analyte Name	Sample Result	D-4-16MS KWG1004900-1 Matrix Spike			D-4-16DMS KWG1004900-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	49.8	54.8	91	55.8	55.1	101	12-160	11	40
1,1-Dichloroethene	ND	44.0	54.8	80	49.5	55.1	90	31-153	12	40
Chloroform	ND	46.5	54.8	85	49.8	55.1	90	30-138	7	40
Carbon Tetrachloride	ND	47.8	54.8	87	51.3	55.1	93	10-144	7	40
Benzene	ND	46.7	54.8	85	49.3	55.1	89	30-137	5	40
Trichloroethene (TCE)	ND	51.6	54.8	94	52.9	55.1	96	18-145	3	40
Bromodichloromethane	ND	46.1	54.8	84	52.1	55.1	95	14-146	12	40
Toluene	ND	45.9	54.8	84	50.7	55.1	92	15-135	10	40
1,1,2-Trichloroethane	ND	48.5	54.8	88	51.7	55.1	94	18-141	7	40
2-Hexanone	ND	527	274	192 *	532	276	193 *	20-128	1	40
Chlorobenzene	ND	44.0	54.8	80	45.7	55.1	83	15-124	4	40
Ethylbenzene	ND	46.4	54.8	85	48.5	55.1	88	13-128	4	40
1,2,3-Trichloropropane	ND	71.0	54.8	130	68.7	55.1	125	10-159	3	40
2-Chlorotoluene	ND	52.7	54.8	96	51.6	55.1	94	10-140	2	40
1,2-Dichlorobenzene	ND	45.3	54.8	83	45.7	55.1	83	10-124	1	40
Naphthalene	ND	44.4	54.8	81	42.8	55.1	78	10-127	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1004900

Analyte Name	Lab Control Sample KWG1004900-3 Lab Control Spike			Duplicate Lab Control Sample KWG1004900-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Dichlorodifluoromethane	36.3	50.0	73	42.5	50.0	85	38-160	16	40
Chloromethane	39.1	50.0	78	44.8	50.0	90	37-146	14	40
Vinyl Chloride	40.0	50.0	80	45.8	50.0	92	54-127	14	40
Bromomethane	26.7	50.0	53	31.0	50.0	62	22-180	15	40
Chloroethane	37.0	50.0	74	43.1	50.0	86	39-147	15	40
Trichlorofluoromethane	30.1	50.0	60	34.7	50.0	69	51-140	14	40
1,1-Dichloroethene	36.0	50.0	72	41.4	50.0	83	64-152	14	40
Acetone	176	250	70	204	250	82	43-124	15	40
Carbon Disulfide	80.7	100	81	93.4	100	93	55-141	15	40
Methylene Chloride	37.1	50.0	74	44.0	50.0	88	56-131	17	40
trans-1,2-Dichloroethene	37.4	50.0	75 *	42.8	50.0	86	77-127	14	40
1,1-Dichloroethane	38.1	50.0	76	41.9	50.0	84	59-137	9	40
2,2-Dichloropropane	40.3	50.0	81	43.9	50.0	88	74-134	9	40
cis-1,2-Dichloroethene	39.5	50.0	79	43.0	50.0	86	62-138	8	40
2-Butanone (MEK)	208	250	83	231	250	92	54-116	10	40
Bromochloromethane	40.9	50.0	82	45.1	50.0	90	59-130	10	40
Chloroform	41.5	50.0	83	45.0	50.0	90	61-137	8	40
1,1,1-Trichloroethane (TCA)	40.9	50.0	82	44.7	50.0	89	59-146	9	40
Carbon Tetrachloride	40.5	50.0	81	44.2	50.0	88	60-152	9	40
1,1-Dichloropropene	39.0	50.0	78	42.3	50.0	85	52-142	8	40
Benzene	41.8	50.0	84	44.2	50.0	88	56-148	6	40
1,2-Dichloroethane (EDC)	40.0	50.0	80	44.2	50.0	88	57-139	10	40
Trichloroethene (TCE)	42.8	50.0	86	46.2	50.0	92	76-124	8	40
1,2-Dichloropropane	41.3	50.0	83	46.6	50.0	93	58-135	12	40
Dibromomethane	39.8	50.0	80	45.2	50.0	90	56-133	13	40
Bromodichloromethane	41.9	50.0	84	48.0	50.0	96	61-143	14	40
cis-1,3-Dichloropropene	37.5	50.0	75	42.8	50.0	86	58-138	13	40
4-Methyl-2-pentanone (MIBK)	216	250	86	253	250	101	44-140	16	40
Toluene	40.9	50.0	82	47.0	50.0	94	75-117	14	40
trans-1,3-Dichloropropene	52.4	50.0	105	53.6	50.0	107	63-121	2	40
1,1,2-Trichloroethane	42.9	50.0	86	44.5	50.0	89	56-133	4	40
Tetrachloroethene (PCE)	43.4	50.0	87	43.9	50.0	88	66-126	1	40
2-Hexanone	230	250	92	238	250	95	54-122	4	40
1,3-Dichloropropane	44.0	50.0	88	45.5	50.0	91	56-134	3	40
Dibromochloromethane	47.3	50.0	95	48.5	50.0	97	58-140	3	40
1,2-Dibromoethane (EDB)	44.2	50.0	88	45.4	50.0	91	55-134	3	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1004900

Analyte Name	Lab Control Sample KWG1004900-3 Lab Control Spike			Duplicate Lab Control Sample KWG1004900-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Chlorobenzene	43.4	50.0	87	44.5	50.0	89	70-116	3	40
Ethylbenzene	44.9	50.0	90	45.8	50.0	92	70-118	2	40
1,1,1,2-Tetrachloroethane	47.5	50.0	95	48.3	50.0	97	58-137	2	40
m,p-Xylenes	94.7	100	95	96.1	100	96	58-140	2	40
o-Xylene	46.5	50.0	93	47.7	50.0	95	57-139	3	40
Styrene	47.8	50.0	96	48.5	50.0	97	62-135	1	40
Bromoform	52.5	50.0	105	53.6	50.0	107	62-134	2	40
Isopropylbenzene	48.7	50.0	97	48.6	50.0	97	55-129	0	40
1,1,2,2-Tetrachloroethane	39.3	50.0	79	44.1	50.0	88	53-133	11	40
Bromobenzene	47.9	50.0	96	46.8	50.0	94	52-130	2	40
n-Propylbenzene	49.0	50.0	98	48.6	50.0	97	57-143	1	40
1,2,3-Trichloropropane	45.2	50.0	90	44.8	50.0	90	53-134	1	40
2-Chlorotoluene	49.9	50.0	100	49.0	50.0	98	66-129	2	40
1,3,5-Trimethylbenzene	49.5	50.0	99	49.3	50.0	99	53-141	0	40
4-Chlorotoluene	50.5	50.0	101	50.0	50.0	100	51-134	1	40
tert-Butylbenzene	47.9	50.0	96	48.6	50.0	97	67-131	2	40
1,2,4-Trimethylbenzene	47.4	50.0	95	48.5	50.0	97	55-140	2	40
sec-Butylbenzene	46.4	50.0	93	46.8	50.0	94	55-146	1	40
4-Isopropyltoluene	46.7	50.0	93	47.6	50.0	95	52-140	2	40
1,3-Dichlorobenzene	47.2	50.0	94	47.9	50.0	96	52-131	1	40
1,4-Dichlorobenzene	46.2	50.0	92	46.8	50.0	94	52-128	1	40
n-Butylbenzene	47.9	50.0	96	48.8	50.0	98	53-139	2	40
1,2-Dichlorobenzene	46.3	50.0	93	46.7	50.0	93	53-128	1	40
1,2-Dibromo-3-chloropropane	50.4	50.0	101	52.1	50.0	104	55-127	3	40
1,2,4-Trichlorobenzene	50.2	50.0	100	50.5	50.0	101	57-136	1	40
Hexachlorobutadiene	54.3	50.0	109	54.2	50.0	108	54-140	0	40
Naphthalene	50.4	50.0	101	50.9	50.0	102	54-134	1	40
1,2,3-Trichlorobenzene	52.6	50.0	105	52.5	50.0	105	52-138	0	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010
Time Analyzed: 12:39

**Method Blank Summary
 Volatile Organic Compounds**

Sample Name: Method Blank **File ID:** J:\MS24\DATA\052510\0525F009.D
Lab Code: KWG1004900-5 **Instrument ID:** MS24
Extraction Method: EPA 5030A **Level:** Low
Analysis Method: 8260B **Extraction Lot:** KWG1004900

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1004900-3	J:\MS24\DATA\052510\0525F005.D	05/25/10	11:14
Duplicate Lab Control Sample	KWG1004900-4	J:\MS24\DATA\052510\0525F006.D	05/25/10	11:35
D-4-16	K1005244-003	J:\MS24\DATA\052510\0525F012.D	05/25/10	13:42
D-4-16MS	KWG1004900-1	J:\MS24\DATA\052510\0525F013.D	05/25/10	14:40
D-4-16DMS	KWG1004900-2	J:\MS24\DATA\052510\0525F014.D	05/25/10	15:01

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010
Time Analyzed: 11:14

Lab Control Sample Summary
Volatile Organic Compounds

Sample Name: Lab Control Sample
Lab Code: KWG1004900-3
Extraction Method: EPA 5030A
Analysis Method: 8260B

File ID: J:\MS24\DATA\052510\0525F005.D
Instrument ID: MS24
Level: Low
Extraction Lot: KWG1004900

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1004900-5	J:\MS24\DATA\052510\0525F009.D	05/25/10	12:39
D-4-16	K1005244-003	J:\MS24\DATA\052510\0525F012.D	05/25/10	13:42
D-4-16MS	KWG1004900-1	J:\MS24\DATA\052510\0525F013.D	05/25/10	14:40
D-4-16DMS	KWG1004900-2	J:\MS24\DATA\052510\0525F014.D	05/25/10	15:01

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 05/25/2010
Time Analyzed: 08:42

**Tune Summary
 Volatile Organic Compounds**

File ID: J:\MS24\DATA\052510\0525F002.D
Instrument ID: MS24
Column:

Analysis Method: 8260B
Analysis Lot: KWG1004880

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	24.2	3284	PASS
75	95	30	60	55.9	7570	PASS
95	95	100	100	100.0	13552	PASS
96	95	5	9	8.7	1182	PASS
173	174	0	2	1.2	123	PASS
174	95	50	120	77.4	10491	PASS
175	174	5	9	8.4	877	PASS
176	174	95	101	97.2	10193	PASS
177	176	5	9	6.1	618	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	KWG1004880-2	J:\MS24\DATA\052510\0525F004.D	05/25/2010	10:34	
Lab Control Sample	KWG1004900-3	J:\MS24\DATA\052510\0525F005.D	05/25/2010	11:14	
Duplicate Lab Control Sample	KWG1004900-4	J:\MS24\DATA\052510\0525F006.D	05/25/2010	11:35	
Method Blank	KWG1004900-5	J:\MS24\DATA\052510\0525F009.D	05/25/2010	12:39	
D-4-16	K1005244-003	J:\MS24\DATA\052510\0525F012.D	05/25/2010	13:42	
D-4-16MS	KWG1004900-1	J:\MS24\DATA\052510\0525F013.D	05/25/2010	14:40	
D-4-16DMS	KWG1004900-2	J:\MS24\DATA\052510\0525F014.D	05/25/2010	15:01	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS24\DATA\042110\0421F005.D	F	J:\MS24\DATA\042110\0421F010.D
B	J:\MS24\DATA\042110\0421F006.D	G	J:\MS24\DATA\042110\0421F011.D
C	J:\MS24\DATA\042110\0421F007.D	H	J:\MS24\DATA\042110\0421F012.D
D	J:\MS24\DATA\042110\0421F008.D	I	J:\MS24\DATA\042110\0421F013.D
E	J:\MS24\DATA\042110\0421F009.D		

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF			
Dichlorodifluoromethane	F	50	0.282	B	2.0	0.330	C	5.0	0.312	D	10	0.299	E	20	0.321
				G	100	0.308	H	200	0.331	I	300	0.286			
† Chloromethane	A	1.0	0.506	B	2.0	0.397	C	5.0	0.378	D	10	0.369	E	20	0.379
*	F	50	0.350	G	100	0.385	H	200	0.404	I	300	0.354			
‡ Vinyl Chloride				B	2.0	0.364	C	5.0	0.349	D	10	0.351	E	20	0.360
*	F	50	0.319	G	100	0.350	H	200	0.366	I	300	0.318			
Bromomethane							C	5.0	0.324	D	10	0.293	E	20	0.297
	F	50	0.233	G	100	0.281	H	200	0.304						
Chloroethane							C	5.0	0.228	D	10	0.221	E	20	0.239
	F	50	0.209	G	100	0.231	H	200	0.242	I	300	0.214			
Trichlorofluoromethane				B	2.0	0.487	C	5.0	0.472	D	10	0.476	E	20	0.506
	F	50	0.431	G	100	0.481	H	200	0.518	I	300	0.458			
‡ 1,1-Dichloroethene				B	2.0	0.244	C	5.0	0.199	D	10	0.203	E	20	0.219
*	F	50	0.191	G	100	0.205	H	200	0.225	I	300	0.193			
Acetone										D	20	0.150	E	40	0.118
	F	100	0.108	G	200	0.107	H	400	0.115	I	600	0.101			
Carbon Disulfide	A	1.0	0.905	B	2.0	0.781	C	5.0	0.761	D	10	0.786	E	20	0.855
	F	50	0.742	G	100	0.847	H	200	0.923	I	300	0.826			
Methylene Chloride							C	5.0	0.322	D	10	0.295	E	20	0.319
	F	50	0.283	G	100	0.299	H	200	0.310	I	300	0.279			
trans-1,2-Dichloroethene	A	1.0	0.310	B	2.0	0.263	C	5.0	0.250	D	10	0.245	E	20	0.261
	F	50	0.236	G	100	0.261	H	200	0.282	I	300	0.254			
† 1,1-Dichloroethane	A	1.0	0.555	B	2.0	0.546	C	5.0	0.477	D	10	0.496	E	20	0.523
*	F	50	0.475	G	100	0.529	H	200	0.566	I	300	0.496			
2,2-Dichloropropane							C	5.0	0.339	D	10	0.338	E	20	0.355
	F	50	0.333	G	100	0.370	H	200	0.404	I	300	0.347			
cis-1,2-Dichloroethene	A	1.0	0.307	B	2.0	0.290	C	5.0	0.271	D	10	0.275	E	20	0.297
	F	50	0.285	G	100	0.301	H	200	0.318	I	300	0.278			
2-Butanone (MEK)							C	10	0.0436	D	20	0.0374	E	40	0.0364
	F	100	0.0352	G	200	0.0360	H	400	0.0396	I	600	0.0339			

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
Bromochloromethane	F	50	0.138	G	100	0.149	C	5.0	0.135	D	10	0.136	E	20	0.144
† Chloroform	F	50	0.458	G	100	0.512	C	5.0	0.452	D	10	0.465	E	20	0.498
1,1,1-Trichloroethane (TCA)	F	50	0.343	G	100	0.387	C	5.0	0.360	D	10	0.359	E	20	0.390
Carbon Tetrachloride	F	50	0.287	G	100	0.327	C	5.0	0.302	D	10	0.308	E	20	0.337
1,1-Dichloropropene	A	1.0	0.359	B	2.0	0.334	C	5.0	0.302	D	10	0.327	E	20	0.354
Benzene	A	1.0	1.10	B	2.0	1.02	C	5.0	0.979	D	10	1.01	E	20	1.13
1,2-Dichloroethane (EDC)	A	1.0	0.435	B	2.0	0.416	C	5.0	0.412	D	10	0.415	E	20	0.451
Trichloroethene (TCE)	A	1.0	0.304	B	2.0	0.298	C	5.0	0.265	D	10	0.257	E	20	0.300
† 1,2-Dichloropropane	A	1.0	0.315	B	2.0	0.283	C	5.0	0.254	D	10	0.252	E	20	0.295
Dibromomethane	F	50	0.174	G	100	0.186	C	5.0	0.173	D	10	0.165	E	20	0.190
Bromodichloromethane	F	50	0.345	G	100	0.384	C	5.0	0.312	D	10	0.310	E	20	0.368
cis-1,3-Dichloropropene	F	50	0.384	G	100	0.445	C	5.0	0.325	D	10	0.328	E	20	0.408
4-Methyl-2-pentanone (MIBK)	F	100	0.108	G	200	0.118	C	10	0.103	D	20	0.0913	E	40	0.108
† Toluene	F	50	0.601	G	100	0.665	C	5.0	0.579	D	10	0.599	E	20	0.693
trans-1,3-Dichloropropene	F	50	0.809	G	100	0.868	C	5.0	0.661	D	10	0.684	E	20	0.877
1,1,2-Trichloroethane	A	1.0	0.536	B	2.0	0.603	C	5.0	0.510	D	10	0.473	E	20	0.558
Tetrachloroethene (PCE)	A	1.0	0.506	B	2.0	0.541	C	5.0	0.473	D	10	0.481	E	20	0.537
2-Hexanone	F	100	0.0845	G	200	0.0884	C	10	0.0808	D	20	0.0774	E	40	0.0846

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† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Level ID			Level ID			Level ID			Level ID					
	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF			
1,3-Dichloropropane	A	1.0	0.986	B	2.0	1.19	C	5.0	0.953	D	10	0.965	E	20	1.13
	F	50	0.984	G	100	1.02	H	200	1.06	I	300	0.993			
Dibromochloromethane							C	5.0	0.499	D	10	0.485	E	20	0.579
	F	50	0.554	G	100	0.620	H	200	0.674	I	300	0.644			
1,2-Dibromoethane (EDB)				B	2.0	0.622	C	5.0	0.506	D	10	0.527	E	20	0.591
	F	50	0.544	G	100	0.562	H	200	0.613	I	300	0.561			
† Chlorobenzene	A	1.0	1.72	B	2.0	1.94	C	5.0	1.61	D	10	1.62	E	20	1.81
	F	50	1.63	G	100	1.73	H	200	1.82	I	300	1.65			
‡ Ethylbenzene				B	2.0	0.821	C	5.0	0.768	D	10	0.802	E	20	0.903
	F	50	0.795	G	100	0.845	H	200	0.936	I	300	0.855			
1,1,1,2-Tetrachloroethane							C	5.0	0.508	D	10	0.502	E	20	0.583
	F	50	0.545	G	100	0.582	H	200	0.663	I	300	0.603			
m,p-Xylenes	A	2.0	0.859	B	4.0	0.949	C	10	0.876	D	20	0.925	E	40	1.07
	F	100	0.985	G	200	1.06	H	400	1.15	I	600	1.04			
o-Xylene							C	5.0	0.883	D	10	0.912	E	20	1.03
	F	50	0.948	G	100	1.06	H	200	1.10	I	300	1.02			
Styrene							C	5.0	0.662	D	10	0.652	E	20	0.804
	F	50	0.776	G	100	0.842	H	200	0.887	I	300	0.837			
† Bromoform							C	5.0	0.286	D	10	0.283	E	20	0.339
	F	50	0.354	G	100	0.381	H	200	0.417	I	300	0.403			
Isopropylbenzene							C	5.0	2.05	D	10	2.22	E	20	2.52
	F	50	2.46	G	100	2.48	H	200	2.68	I	300	2.40			
† 1,1,2,2-Tetrachloroethane				B	2.0	0.939	C	5.0	0.706	D	10	0.625	E	20	0.735
	F	50	0.684	G	100	0.692	H	200	0.754	I	300	0.688			
Bromobenzene	A	1.0	0.742	B	2.0	0.959	C	5.0	0.715	D	10	0.664	E	20	0.825
	F	50	0.763	G	100	0.780	H	200	0.839	I	300	0.779			
n-Propylbenzene							C	5.0	2.69	D	10	2.78	E	20	3.44
	F	50	3.22	G	100	3.31	H	200	3.67	I	300	3.32			
1,2,3-Trichloropropane	A	1.0	0.278	B	2.0	0.354	C	5.0	0.305	D	10	0.249	E	20	0.277
	F	50	0.257	G	100	0.250	H	200	0.271	I	300	0.249			
2-Chlorotoluene				B	2.0	2.18	C	5.0	1.78	D	10	1.77	E	20	2.16
	F	50	1.98	G	100	2.01	H	200	2.18	I	300	2.01			
1,3,5-Trimethylbenzene							C	5.0	1.94	D	10	1.89	E	20	2.42
	F	50	2.27	G	100	2.34	H	200	2.55	I	300	2.34			
4-Chlorotoluene				B	2.0	2.23	C	5.0	1.81	D	10	1.76	E	20	2.13
	F	50	2.02	G	100	2.08	H	200	2.21	I	300	1.99			

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
tert-Butylbenzene	F	50	1.96	G	100	2.06	C	5.0	1.75	D	10	1.68	E	20	2.09
							H	200	2.20	I	300	2.06			
1,2,4-Trimethylbenzene	F	50	2.31	G	100	2.45	C	5.0	1.95	D	10	1.86	E	20	2.47
							H	200	2.60	I	300	2.47			
sec-Butylbenzene	F	50	2.87	G	100	3.08	C	5.0	2.47	D	10	2.58	E	20	3.24
							H	200	3.26	I	300	3.06			
4-Isopropyltoluene	F	50	2.40	G	100	2.52	C	5.0	2.07	D	10	2.16	E	20	2.69
							H	200	2.74	I	300	2.57			
1,3-Dichlorobenzene	A	1.0	1.28	B	2.0	1.69	C	5.0	1.38	D	10	1.31	E	20	1.55
	F	50	1.41	G	100	1.43	H	200	1.53	I	300	1.45			
1,4-Dichlorobenzene	A	1.0	1.49	B	2.0	1.70	C	5.0	1.45	D	10	1.37	E	20	1.62
	F	50	1.41	G	100	1.47	H	200	1.53	I	300	1.45			
n-Butylbenzene	F	50	2.09	G	100	2.27	C	5.0	1.79	D	10	1.92	E	20	2.36
							H	200	2.43	I	300	2.29			
1,2-Dichlorobenzene	A	1.0	1.30	B	2.0	1.42	C	5.0	1.38	D	10	1.30	E	20	1.64
	F	50	1.39	G	100	1.44	H	200	1.51	I	300	1.42			
1,2-Dibromo-3-chloropropane	F	50	0.0940	B	2.0	0.0926	C	5.0	0.115	D	10	0.0877	E	20	0.119
				G	100	0.0982	H	200	0.131	I	300	0.133			
1,2,4-Trichlorobenzene	F	50	0.687	G	100	0.884	C	5.0	0.911	D	10	0.837	E	20	1.01
							H	200	1.07						
Hexachlorobutadiene	A	1.0	0.471	B	2.0	0.357	C	5.0	0.502	D	10	0.497	E	20	0.583
	F	50	0.356	G	100	0.380	H	200	0.592	I	300	0.319			
Naphthalene	F	50	1.73	G	100	2.16	C	5.0	2.01	D	10	1.89	E	20	2.31
							H	200	2.69	I	300	1.70			
1,2,3-Trichlorobenzene	F	50	0.688	G	100	0.645	C	5.0	0.732	D	10	0.848	E	20	1.05
							H	200	1.07						
Dibromofluoromethane	F	50	0.240	B	10	0.230	C	20	0.256	D	30	0.248	E	40	0.256
				G	70	0.257	H	80	0.265	I	100	0.248			
Toluene-d8	F	50	0.844	B	10	0.728	C	20	0.885	D	30	0.845	E	40	0.927
				G	70	0.939	H	80	0.958	I	100	0.887			
4-Bromofluorobenzene	F	50	0.808	B	10	0.690	C	20	0.767	D	30	0.720	E	40	0.795
				G	70	0.764	H	80	0.813	I	100	0.782			

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† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Dichlorodifluoromethane	TRG	AverageRF	% RSD	6.1		≤ 15	0.309		0.01
† Chloromethane	TRG	AverageRF	% RSD	11.9		≤ 15	0.391		0.10
‡ Vinyl Chloride	MS	AverageRF	% RSD	5.4		≤ 15	0.347		0.01
Bromomethane	TRG	AverageRF	% RSD	10.6		≤ 15	0.289		0.01
Chloroethane	TRG	AverageRF	% RSD	5.5		≤ 15	0.226		0.01
Trichlorofluoromethane	TRG	AverageRF	% RSD	5.7		≤ 15	0.479		0.01
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	8.7		≤ 15	0.210		0.01
Acetone	TRG	AverageRF	% RSD	15.1	*	≤ 15	0.116		0.01
Carbon Disulfide	TRG	AverageRF	% RSD	7.6		≤ 15	0.825		0.01
Methylene Chloride	TRG	AverageRF	% RSD	5.7		≤ 15	0.301		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	8.4		≤ 15	0.263		0.01
† 1,1-Dichloroethane	TRG	AverageRF	% RSD	6.5		≤ 15	0.518		0.10
2,2-Dichloropropane	TRG	AverageRF	% RSD	7.0		≤ 15	0.355		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	5.4		≤ 15	0.291		0.01
2-Butanone (MEK)	TRG	AverageRF	% RSD	8.7		≤ 15	0.0374		0.01
Bromochloromethane	TRG	AverageRF	% RSD	5.9		≤ 15	0.143		0.01
‡ Chloroform	MS	AverageRF	% RSD	6.6		≤ 15	0.489		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	6.0		≤ 15	0.373		0.01
Carbon Tetrachloride	MS	AverageRF	% RSD	7.7		≤ 15	0.321		0.01
1,1-Dichloropropene	TRG	AverageRF	% RSD	7.2		≤ 15	0.335		0.01
Benzene	MS	AverageRF	% RSD	6.5		≤ 15	1.07		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	4.7		≤ 15	0.432		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	6.6		≤ 15	0.282		0.01
‡ 1,2-Dichloropropane	TRG	AverageRF	% RSD	7.6		≤ 15	0.284		0.01
Dibromomethane	TRG	AverageRF	% RSD	5.2		≤ 15	0.179		0.01
Bromodichloromethane	MS	AverageRF	% RSD	10.1		≤ 15	0.358		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	14.4		≤ 15	0.399		0.01
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF	% RSD	9.4		≤ 15	0.109		0.01
‡ Toluene	MS	AverageRF	% RSD	7.0		≤ 15	0.640		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	14.2		≤ 15	0.828		0.01
1,1,2-Trichloroethane	MS	AverageRF	% RSD	8.2		≤ 15	0.518		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	6.9		≤ 15	0.491		0.01
2-Hexanone	MS	AverageRF	% RSD	8.0		≤ 15	0.0874		0.01
1,3-Dichloropropane	TRG	AverageRF	% RSD	7.9		≤ 15	1.03		0.01
Dibromochloromethane	TRG	AverageRF	% RSD	12.4		≤ 15	0.579		0.01
1,2-Dibromoethane (EDB)	TRG	AverageRF	% RSD	7.2		≤ 15	0.566		0.01
† Chlorobenzene	MS	AverageRF	% RSD	6.6		≤ 15	1.73		0.30
‡ Ethylbenzene	MS	AverageRF	% RSD	6.8		≤ 15	0.841		0.01
1,1,1,2-Tetrachloroethane	TRG	AverageRF	% RSD	9.9		≤ 15	0.570		0.01
m,p-Xylenes	TRG	AverageRF	% RSD	9.8		≤ 15	0.991		0.01
o-Xylene	TRG	AverageRF	% RSD	8.1		≤ 15	0.995		0.01
Styrene	TRG	AverageRF	% RSD	11.6		≤ 15	0.780		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
† Bromoform	TRG	AverageRF	% RSD	15.1	*	≤ 15	0.352		0.10
Isopropylbenzene	TRG	AverageRF	% RSD	8.6		≤ 15	2.40		0.01
† 1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	12.9		≤ 15	0.728		0.30
Bromobenzene	TRG	AverageRF	% RSD	10.7		≤ 15	0.785		0.01
n-Propylbenzene	TRG	AverageRF	% RSD	10.9		≤ 15	3.20		0.01
1,2,3-Trichloropropane	MS	AverageRF	% RSD	12.4		≤ 15	0.277		0.01
2-Chlorotoluene	MS	AverageRF	% RSD	8.3		≤ 15	2.01		0.01
1,3,5-Trimethylbenzene	TRG	AverageRF	% RSD	10.8		≤ 15	2.25		0.01
4-Chlorotoluene	TRG	AverageRF	% RSD	8.5		≤ 15	2.03		0.01
tert-Butylbenzene	TRG	AverageRF	% RSD	9.6		≤ 15	1.97		0.01
1,2,4-Trimethylbenzene	TRG	AverageRF	% RSD	12.4		≤ 15	2.30		0.01
sec-Butylbenzene	TRG	AverageRF	% RSD	10.6		≤ 15	2.94		0.01
4-Isopropyltoluene	TRG	AverageRF	% RSD	10.4		≤ 15	2.45		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	8.8		≤ 15	1.45		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	6.9		≤ 15	1.50		0.01
n-Butylbenzene	TRG	AverageRF	% RSD	11.1		≤ 15	2.17		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	7.3		≤ 15	1.42		0.01
1,2-Dibromo-3-chloropropane	TRG	AverageRF	% RSD	16.5	*	≤ 15	0.109		0.01
1,2,4-Trichlorobenzene	TRG	AverageRF	% RSD	15.1	*	≤ 15	0.901		0.01
Hexachlorobutadiene	TRG	AverageRF	% RSD	22.5	*	≤ 15	0.451		0.01
Naphthalene	MS	AverageRF	% RSD	17.0	*	≤ 15	2.07		0.01
1,2,3-Trichlorobenzene	TRG	AverageRF	% RSD	22.0	*	≤ 15	0.839		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	4.4		≤ 15	0.250		0.01
Toluene-d8	SURR	AverageRF	% RSD	8.3		≤ 15	0.877		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	5.6		≤ 15	0.767		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010
Date Analyzed: 04/21/2010

**Second Source Calibration Verification
 Volatile Organic Compounds**

Calibration Type: Internal Standard
Analysis Method: 8260B

Calibration ID: CAL9404
Units: PPB

File ID: J:\MS24\DATA\042110\0421F017.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane	50	48	0.309	0.298	-4	NA	± 40 %	AverageRF
† Chloromethane	50	43	0.391	0.336	-14	NA	± 40 %	AverageRF
‡ Vinyl Chloride	50	46	0.347	0.319	-8	NA	± 20 %	AverageRF
Bromomethane	50	45	0.289	0.257	-11	NA	± 40 %	AverageRF
Chloroethane	50	41	0.226	0.188	-17	NA	± 40 %	AverageRF
Trichlorofluoromethane	50	42	0.479	0.404	-16	NA	± 30 %	AverageRF
* 1,1-Dichloroethene	50	51	0.210	0.214	2	NA	± 20 %	AverageRF
Acetone	250	210	0.116	0.0983	-16	NA	± 30 %	AverageRF
Carbon Disulfide	100	96	0.825	0.791	-4	NA	± 30 %	AverageRF
Methylene Chloride	50	46	0.301	0.275	-9	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	50	49	0.263	0.256	-3	NA	± 30 %	AverageRF
† 1,1-Dichloroethane	50	47	0.518	0.485	-6	NA	± 30 %	AverageRF
2,2-Dichloropropane	50	51	0.355	0.359	1	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	50	46	0.291	0.268	-8	NA	± 30 %	AverageRF
2-Butanone (MEK)	250	230	0.0374	0.0348	-7	NA	± 30 %	AverageRF
Bromochloromethane	50	48	0.143	0.137	-4	NA	± 30 %	AverageRF
‡ Chloroform	50	48	0.489	0.472	-3	NA	± 20 %	AverageRF
1,1,1-Trichloroethane (TCA)	50	51	0.373	0.380	2	NA	± 30 %	AverageRF
Carbon Tetrachloride	50	51	0.321	0.325	1	NA	± 30 %	AverageRF
1,1-Dichloropropene	50	48	0.335	0.321	-4	NA	± 30 %	AverageRF
Benzene	50	48	1.07	1.02	-4	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	50	47	0.432	0.407	-6	NA	± 30 %	AverageRF
Trichloroethene (TCE)	50	51	0.282	0.287	2	NA	± 30 %	AverageRF
* 1,2-Dichloropropane	50	50	0.284	0.282	-1	NA	± 20 %	AverageRF
Dibromomethane	50	50	0.179	0.178	0	NA	± 30 %	AverageRF
Bromodichloromethane	50	51	0.358	0.364	2	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	50	45	0.399	0.361	-10	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	250	250	0.109	0.108	-1	NA	± 30 %	AverageRF
‡ Toluene	50	50	0.640	0.634	-1	NA	± 20 %	AverageRF
trans-1,3-Dichloropropene	50	58	0.828	0.953	15	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	50	51	0.518	0.527	2	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	50	53	0.491	0.524	7	NA	± 30 %	AverageRF
2-Hexanone	250	260	0.0874	0.0904	3	NA	± 30 %	AverageRF
1,3-Dichloropropane	50	51	1.03	1.05	1	NA	± 30 %	AverageRF
Dibromochloromethane	50	51	0.579	0.591	2	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	50	52	0.566	0.591	5	NA	± 30 %	AverageRF
† Chlorobenzene	50	50	1.73	1.72	0	NA	± 30 %	AverageRF
‡ Ethylbenzene	50	53	0.841	0.897	7	NA	± 20 %	AverageRF
1,1,1,2-Tetrachloroethane	50	52	0.570	0.591	4	NA	± 30 %	AverageRF
m,p-Xylenes	100	110	0.991	1.11	12	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010
Date Analyzed: 04/21/2010

**Second Source Calibration Verification
 Volatile Organic Compounds**

Calibration Type: Internal Standard
Analysis Method: 8260B

Calibration ID: CAL9404
Units: PPB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	50	54	0.995	1.08	8	NA	± 30 %	AverageRF
Styrene	50	54	0.780	0.848	9	NA	± 30 %	AverageRF
† Bromoform	50	54	0.352	0.383	9	NA	± 30 %	AverageRF
Isopropylbenzene	50	58	2.40	2.76	15	NA	± 30 %	AverageRF
† 1,1,2,2-Tetrachloroethane	50	47	0.728	0.686	-6	NA	± 30 %	AverageRF
Bromobenzene	50	47	0.785	0.734	-7	NA	± 30 %	AverageRF
n-Propylbenzene	50	52	3.20	3.32	4	NA	± 30 %	AverageRF
1,2,3-Trichloropropane	50	46	0.277	0.256	-7	NA	± 30 %	AverageRF
2-Chlorotoluene	50	51	2.01	2.04	2	NA	± 30 %	AverageRF
1,3,5-Trimethylbenzene	50	53	2.25	2.37	5	NA	± 30 %	AverageRF
4-Chlorotoluene	50	50	2.03	2.01	-1	NA	± 30 %	AverageRF
tert-Butylbenzene	50	53	1.97	2.09	6	NA	± 30 %	AverageRF
1,2,4-Trimethylbenzene	50	53	2.30	2.44	6	NA	± 30 %	AverageRF
sec-Butylbenzene	50	54	2.94	3.18	8	NA	± 30 %	AverageRF
4-Isopropyltoluene	50	56	2.45	2.73	12	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	50	52	1.45	1.52	5	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	50	51	1.50	1.54	2	NA	± 30 %	AverageRF
n-Butylbenzene	50	56	2.17	2.41	12	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	50	50	1.42	1.41	-1	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane	50	57	0.109	0.124	14	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	50	53	0.901	0.961	7	NA	± 30 %	AverageRF
Hexachlorobutadiene	50	59	0.451	0.536	19	NA	± 30 %	AverageRF
Naphthalene	50	54	2.07	2.22	7	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	50	60	0.839	0.999	19	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 05/25/2010

**Continuing Calibration Verification Summary
 Volatile Organic Compounds**

Calibration Type: Internal Standard
Analysis Method: 8260B

Calibration Date: 04/21/2010
Calibration ID: CAL9404
Analysis Lot: KWG1004880
Units: PPB

File ID: J:\MS24\DATA\052510\0525F004.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane	50	36	0.01	0.309	0.221	-29	NA	± 40 %	AverageRF
† Chloromethane	50	43	0.10	0.391	0.340	-13	NA	± 40 %	AverageRF
‡ Vinyl Chloride	50	42	0.01	0.347	0.294	-15	NA	± 20 %	AverageRF
Bromomethane	50	34	0.01	0.289	0.199	-31	NA	± 40 %	AverageRF
Chloroethane	50	46	0.01	0.226	0.206	-9	NA	± 40 %	AverageRF
Trichlorofluoromethane	50	40	0.01	0.479	0.380	-21	NA	± 30 %	AverageRF
‡ 1,1-Dichloroethene	50	45	0.01	0.210	0.188	-10	NA	± 20 %	AverageRF
Acetone	100	92	0.01	0.116	0.107	-8	NA	± 30 %	AverageRF
Carbon Disulfide	50	48	0.01	0.825	0.794	-4	NA	± 30 %	AverageRF
Methylene Chloride	50	52	0.01	0.301	0.315	5	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	50	49	0.01	0.263	0.258	-2	NA	± 30 %	AverageRF
† 1,1-Dichloroethane	50	50	0.10	0.518	0.518	0	NA	± 30 %	AverageRF
2,2-Dichloropropane	50	49	0.01	0.355	0.347	-2	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	50	49	0.01	0.291	0.286	-2	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	92	0.01	0.0374	0.0343	-8	NA	± 30 %	AverageRF
Bromochloromethane	50	49	0.01	0.143	0.140	-2	NA	± 30 %	AverageRF
‡ Chloroform	50	50	0.01	0.489	0.490	0	NA	± 20 %	AverageRF
1,1,1-Trichloroethane (TCA)	50	48	0.01	0.373	0.360	-3	NA	± 30 %	AverageRF
Carbon Tetrachloride	50	48	0.01	0.321	0.308	-4	NA	± 30 %	AverageRF
1,1-Dichloropropene	50	50	0.01	0.335	0.337	0	NA	± 30 %	AverageRF
Benzene	50	51	0.01	1.07	1.08	1	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	50	49	0.01	0.432	0.423	-2	NA	± 30 %	AverageRF
Trichloroethene (TCE)	50	52	0.01	0.282	0.294	4	NA	± 30 %	AverageRF
‡ 1,2-Dichloropropane	50	50	0.01	0.284	0.284	0	NA	± 20 %	AverageRF
Dibromomethane	50	47	0.01	0.179	0.170	-5	NA	± 30 %	AverageRF
Bromodichloromethane	50	52	0.01	0.358	0.371	4	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	50	54	0.01	0.399	0.434	9	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	89	0.01	0.109	0.0973	-11	NA	± 30 %	AverageRF
‡ Toluene	50	52	0.01	0.640	0.663	4	NA	± 20 %	AverageRF
trans-1,3-Dichloropropene	50	54	0.01	0.828	0.894	8	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	50	47	0.01	0.518	0.486	-6	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	50	51	0.01	0.491	0.498	2	NA	± 30 %	AverageRF
2-Hexanone	100	93	0.01	0.0874	0.0817	-7	NA	± 30 %	AverageRF
1,3-Dichloropropane	50	48	0.01	1.03	1.00	-3	NA	± 30 %	AverageRF
Dibromochloromethane	50	52	0.01	0.579	0.605	5	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	50	49	0.01	0.566	0.549	-3	NA	± 30 %	AverageRF
† Chlorobenzene	50	51	0.30	1.73	1.77	2	NA	± 30 %	AverageRF
‡ Ethylbenzene	50	52	0.01	0.841	0.880	5	NA	± 20 %	AverageRF
1,1,1,2-Tetrachloroethane	50	53	0.01	0.570	0.599	5	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 05/25/2010

**Continuing Calibration Verification Summary
 Volatile Organic Compounds**

Calibration Type: Internal Standard
Analysis Method: 8260B

Calibration Date: 04/21/2010
Calibration ID: CAL9404
Analysis Lot: KWG1004880
Units: PPB

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	100	110	0.01	0.991	1.09	10	NA	± 30 %	AverageRF
o-Xylene	50	52	0.01	0.995	1.04	5	NA	± 30 %	AverageRF
Styrene	50	53	0.01	0.780	0.832	7	NA	± 30 %	AverageRF
† Bromoform	50	53	0.10	0.352	0.375	7	NA	± 30 %	AverageRF
Isopropylbenzene	50	53	0.01	2.40	2.54	6	NA	± 30 %	AverageRF
† 1,1,2,2-Tetrachloroethane	50	41	0.30	0.728	0.590	-19	NA	± 30 %	AverageRF
Bromobenzene	50	55	0.01	0.785	0.856	9	NA	± 30 %	AverageRF
n-Propylbenzene	50	58	0.01	3.20	3.69	15	NA	± 30 %	AverageRF
1,2,3-Trichloropropane	50	45	0.01	0.277	0.251	-9	NA	± 30 %	AverageRF
2-Chlorotoluene	50	55	0.01	2.01	2.20	9	NA	± 30 %	AverageRF
1,3,5-Trimethylbenzene	50	56	0.01	2.25	2.50	11	NA	± 30 %	AverageRF
4-Chlorotoluene	50	57	0.01	2.03	2.32	14	NA	± 30 %	AverageRF
tert-Butylbenzene	50	53	0.01	1.97	2.09	6	NA	± 30 %	AverageRF
1,2,4-Trimethylbenzene	50	55	0.01	2.30	2.53	10	NA	± 30 %	AverageRF
sec-Butylbenzene	50	54	0.01	2.94	3.18	8	NA	± 30 %	AverageRF
4-Isopropyltoluene	50	54	0.01	2.45	2.63	7	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	50	53	0.01	1.45	1.54	7	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	50	52	0.01	1.50	1.55	3	NA	± 30 %	AverageRF
n-Butylbenzene	50	56	0.01	2.17	2.43	12	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	50	51	0.01	1.42	1.45	2	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane	50	47	0.01	0.109	0.103	-5	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	50	55	0.01	0.901	0.998	11	NA	± 30 %	AverageRF
Hexachlorobutadiene	50	62	0.01	0.451	0.555	23	NA	± 30 %	AverageRF
Naphthalene	50	49	0.01	2.07	2.05	-1	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	50	55	0.01	0.839	0.931	11	NA	± 30 %	AverageRF
Dibromofluoromethane	50	48	0.01	0.250	0.240	-4	NA	± 30 %	AverageRF
Toluene-d8	50	55	0.01	0.877	0.961	10	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	56	0.01	0.767	0.854	11	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244

**Analysis Run Log
 Volatile Organic Compounds**

Analysis Method: 8260B

Analysis Lot: KWG1004880
Instrument ID: MS24

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0525F002.D	GC/MS Tuning - Bromofluorobenzene	KWG1004880-1	5/25/2010	08:42		5/25/2010	08:55
0525F004.D	Continuing Calibration Verification	KWG1004880-2	5/25/2010	10:34		5/25/2010	10:47
0525F005.D	Lab Control Sample	KWG1004900-3	5/25/2010	11:14		5/25/2010	11:27
0525F006.D	Duplicate Lab Control Sample	KWG1004900-4	5/25/2010	11:35		5/25/2010	11:48
0525F009.D	Method Blank	KWG1004900-5	5/25/2010	12:39		5/25/2010	12:52
0525F010.D	ZZZZZZ	ZZZZZZ	5/25/2010	13:00		5/25/2010	13:13
0525F011.D	ZZZZZZ	ZZZZZZ	5/25/2010	13:21		5/25/2010	13:34
0525F012.D	D-4-16	K1005244-003	5/25/2010	13:42		5/25/2010	13:55
0525F013.D	D-4-16MS	KWG1004900-1	5/25/2010	14:40		5/25/2010	14:53
0525F014.D	D-4-16DMS	KWG1004900-2	5/25/2010	15:01		5/25/2010	15:14
0525F016.D	ZZZZZZ	ZZZZZZ	5/25/2010	15:43		5/25/2010	15:56
0525F017.D	ZZZZZZ	ZZZZZZ	5/25/2010	16:04		5/25/2010	16:17

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010

Extraction Prep Log
Volatile Organic Compounds

Extraction Method: EPA 5030A
Analysis Method: 8260B

Extraction Lot: KWG1004900
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
D-4-16	K1005244-003	05/19/10	05/21/10	5.00g	5.0ml	90.7	
Method Blank	KWG1004900-5	NA	NA	5.00g	5.0ml	NA	
D-4-16MS	KWG1004900-1	05/19/10	05/21/10	5.03g	5.0ml	90.7	
D-4-16DMS	KWG1004900-2	05/19/10	05/21/10	5.00g	5.0ml	90.7	
Lab Control Sample	KWG1004900-3	NA	NA	5.00g	5.0ml	NA	
Duplicate Lab Control Sample	KWG1004900-4	NA	NA	5.00g	5.0ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Organic Analysis:
Volatile Organic Compounds

Validation Package

Organic Analysis:
Volatile Organic Compounds

Validation Package

QC Reports

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244

**Surrogate Recovery Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
Duplicate Lab Control Sample	KWG1004900-4	100	115	109
D-4-16	K1005244-003	100	108	103
Method Blank	KWG1004900-5	100	110	104
D-4-16MS	KWG1004900-1	99	109	108
D-4-16DMS	KWG1004900-2	102	114	107
Lab Control Sample	KWG1004900-3	94	105	110

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	83-128
Sur2 = Toluene-d8	90-125
Sur3 = 4-Bromofluorobenzene	77-124

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 05/25/2010
Time Analyzed: 10:34

**Internal Standard Area and RT Summary
 Volatile Organic Compounds**

File ID: J:\MS24\DATA\052510\0525F004.D
Instrument ID: MS24
Analysis Method: 8260B

Lab Code: KWG1004880-2
Analysis Lot: KWG1004880

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4		
	<u>Area</u>	<u>RT</u>	<u>Area</u>	<u>RT</u>	<u>Area</u>	<u>RT</u>	
Results ==>	367,346	4.02	157,615	6.65	137,921	8.98	
Upper Limit ==>	734,692	4.52	315,230	7.15	275,842	9.48	
Lower Limit ==>	183,673	3.52	78,808	6.15	68,961	8.48	
ICAL Result ==>	321,724	4.02	137,440	6.65	130,674	8.98	
Associated Analyses							
Lab Control Sample	KWG1004900-3	418,826	4.02	167,585	6.65	148,678	8.98
Duplicate Lab Control Sample	KWG1004900-4	355,415	4.02	159,438	6.65	144,430	8.98
Method Blank	KWG1004900-5	348,737	4.02	149,494	6.65	128,420	8.98
D-4-16	K1005244-003	342,019	4.02	146,554	6.65	116,925	8.98
D-4-16MS	KWG1004900-1	420,529	4.02	177,982	6.65	145,052	8.98
D-4-16DMS	KWG1004900-2	367,092	4.02	163,841	6.65	139,592	8.98

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010

**Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds**

Sample Name: D-4-16
Lab Code: K1005244-003
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1004900

Analyte Name	Sample Result	D-4-16MS KWG1004900-1 Matrix Spike			D-4-16DMS KWG1004900-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	49.8	54.8	91	55.8	55.1	101	12-160	11	40
1,1-Dichloroethene	ND	44.0	54.8	80	49.5	55.1	90	31-153	12	40
Chloroform	ND	46.5	54.8	85	49.8	55.1	90	30-138	7	40
Carbon Tetrachloride	ND	47.8	54.8	87	51.3	55.1	93	10-144	7	40
Benzene	ND	46.7	54.8	85	49.3	55.1	89	30-137	5	40
Trichloroethene (TCE)	ND	51.6	54.8	94	52.9	55.1	96	18-145	3	40
Bromodichloromethane	ND	46.1	54.8	84	52.1	55.1	95	14-146	12	40
Toluene	ND	45.9	54.8	84	50.7	55.1	92	15-135	10	40
1,1,2-Trichloroethane	ND	48.5	54.8	88	51.7	55.1	94	18-141	7	40
2-Hexanone	ND	527	274	192 *	532	276	193 *	20-128	1	40
Chlorobenzene	ND	44.0	54.8	80	45.7	55.1	83	15-124	4	40
Ethylbenzene	ND	46.4	54.8	85	48.5	55.1	88	13-128	4	40
1,2,3-Trichloropropane	ND	71.0	54.8	130	68.7	55.1	125	10-159	3	40
2-Chlorotoluene	ND	52.7	54.8	96	51.6	55.1	94	10-140	2	40
1,2-Dichlorobenzene	ND	45.3	54.8	83	45.7	55.1	83	10-124	1	40
Naphthalene	ND	44.4	54.8	81	42.8	55.1	78	10-127	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1004900

Analyte Name	Lab Control Sample KWG1004900-3 Lab Control Spike			Duplicate Lab Control Sample KWG1004900-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Dichlorodifluoromethane	36.3	50.0	73	42.5	50.0	85	38-160	16	40
Chloromethane	39.1	50.0	78	44.8	50.0	90	37-146	14	40
Vinyl Chloride	40.0	50.0	80	45.8	50.0	92	54-127	14	40
Bromomethane	26.7	50.0	53	31.0	50.0	62	22-180	15	40
Chloroethane	37.0	50.0	74	43.1	50.0	86	39-147	15	40
Trichlorofluoromethane	30.1	50.0	60	34.7	50.0	69	51-140	14	40
1,1-Dichloroethene	36.0	50.0	72	41.4	50.0	83	64-152	14	40
Acetone	176	250	70	204	250	82	43-124	15	40
Carbon Disulfide	80.7	100	81	93.4	100	93	55-141	15	40
Methylene Chloride	37.1	50.0	74	44.0	50.0	88	56-131	17	40
trans-1,2-Dichloroethene	37.4	50.0	75 *	42.8	50.0	86	77-127	14	40
1,1-Dichloroethane	38.1	50.0	76	41.9	50.0	84	59-137	9	40
2,2-Dichloropropane	40.3	50.0	81	43.9	50.0	88	74-134	9	40
cis-1,2-Dichloroethene	39.5	50.0	79	43.0	50.0	86	62-138	8	40
2-Butanone (MEK)	208	250	83	231	250	92	54-116	10	40
Bromochloromethane	40.9	50.0	82	45.1	50.0	90	59-130	10	40
Chloroform	41.5	50.0	83	45.0	50.0	90	61-137	8	40
1,1,1-Trichloroethane (TCA)	40.9	50.0	82	44.7	50.0	89	59-146	9	40
Carbon Tetrachloride	40.5	50.0	81	44.2	50.0	88	60-152	9	40
1,1-Dichloropropene	39.0	50.0	78	42.3	50.0	85	52-142	8	40
Benzene	41.8	50.0	84	44.2	50.0	88	56-148	6	40
1,2-Dichloroethane (EDC)	40.0	50.0	80	44.2	50.0	88	57-139	10	40
Trichloroethene (TCE)	42.8	50.0	86	46.2	50.0	92	76-124	8	40
1,2-Dichloropropane	41.3	50.0	83	46.6	50.0	93	58-135	12	40
Dibromomethane	39.8	50.0	80	45.2	50.0	90	56-133	13	40
Bromodichloromethane	41.9	50.0	84	48.0	50.0	96	61-143	14	40
cis-1,3-Dichloropropene	37.5	50.0	75	42.8	50.0	86	58-138	13	40
4-Methyl-2-pentanone (MIBK)	216	250	86	253	250	101	44-140	16	40
Toluene	40.9	50.0	82	47.0	50.0	94	75-117	14	40
trans-1,3-Dichloropropene	52.4	50.0	105	53.6	50.0	107	63-121	2	40
1,1,2-Trichloroethane	42.9	50.0	86	44.5	50.0	89	56-133	4	40
Tetrachloroethene (PCE)	43.4	50.0	87	43.9	50.0	88	66-126	1	40
2-Hexanone	230	250	92	238	250	95	54-122	4	40
1,3-Dichloropropane	44.0	50.0	88	45.5	50.0	91	56-134	3	40
Dibromochloromethane	47.3	50.0	95	48.5	50.0	97	58-140	3	40
1,2-Dibromoethane (EDB)	44.2	50.0	88	45.4	50.0	91	55-134	3	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1004900

Analyte Name	Lab Control Sample KWG1004900-3 Lab Control Spike			Duplicate Lab Control Sample KWG1004900-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Chlorobenzene	43.4	50.0	87	44.5	50.0	89	70-116	3	40
Ethylbenzene	44.9	50.0	90	45.8	50.0	92	70-118	2	40
1,1,1,2-Tetrachloroethane	47.5	50.0	95	48.3	50.0	97	58-137	2	40
m,p-Xylenes	94.7	100	95	96.1	100	96	58-140	2	40
o-Xylene	46.5	50.0	93	47.7	50.0	95	57-139	3	40
Styrene	47.8	50.0	96	48.5	50.0	97	62-135	1	40
Bromoform	52.5	50.0	105	53.6	50.0	107	62-134	2	40
Isopropylbenzene	48.7	50.0	97	48.6	50.0	97	55-129	0	40
1,1,2,2-Tetrachloroethane	39.3	50.0	79	44.1	50.0	88	53-133	11	40
Bromobenzene	47.9	50.0	96	46.8	50.0	94	52-130	2	40
n-Propylbenzene	49.0	50.0	98	48.6	50.0	97	57-143	1	40
1,2,3-Trichloropropane	45.2	50.0	90	44.8	50.0	90	53-134	1	40
2-Chlorotoluene	49.9	50.0	100	49.0	50.0	98	66-129	2	40
1,3,5-Trimethylbenzene	49.5	50.0	99	49.3	50.0	99	53-141	0	40
4-Chlorotoluene	50.5	50.0	101	50.0	50.0	100	51-134	1	40
tert-Butylbenzene	47.9	50.0	96	48.6	50.0	97	67-131	2	40
1,2,4-Trimethylbenzene	47.4	50.0	95	48.5	50.0	97	55-140	2	40
sec-Butylbenzene	46.4	50.0	93	46.8	50.0	94	55-146	1	40
4-Isopropyltoluene	46.7	50.0	93	47.6	50.0	95	52-140	2	40
1,3-Dichlorobenzene	47.2	50.0	94	47.9	50.0	96	52-131	1	40
1,4-Dichlorobenzene	46.2	50.0	92	46.8	50.0	94	52-128	1	40
n-Butylbenzene	47.9	50.0	96	48.8	50.0	98	53-139	2	40
1,2-Dichlorobenzene	46.3	50.0	93	46.7	50.0	93	53-128	1	40
1,2-Dibromo-3-chloropropane	50.4	50.0	101	52.1	50.0	104	55-127	3	40
1,2,4-Trichlorobenzene	50.2	50.0	100	50.5	50.0	101	57-136	1	40
Hexachlorobutadiene	54.3	50.0	109	54.2	50.0	108	54-140	0	40
Naphthalene	50.4	50.0	101	50.9	50.0	102	54-134	1	40
1,2,3-Trichlorobenzene	52.6	50.0	105	52.5	50.0	105	52-138	0	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010
Time Analyzed: 12:39

Method Blank Summary
Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1004900-5
Extraction Method: EPA 5030A
Analysis Method: 8260B

File ID: J:\MS24\DATA\052510\0525F009.D
Instrument ID: MS24
Level: Low
Extraction Lot: KWG1004900

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1004900-3	J:\MS24\DATA\052510\0525F005.D	05/25/10	11:14
Duplicate Lab Control Sample	KWG1004900-4	J:\MS24\DATA\052510\0525F006.D	05/25/10	11:35
D-4-16	K1005244-003	J:\MS24\DATA\052510\0525F012.D	05/25/10	13:42
D-4-16MS	KWG1004900-1	J:\MS24\DATA\052510\0525F013.D	05/25/10	14:40
D-4-16DMS	KWG1004900-2	J:\MS24\DATA\052510\0525F014.D	05/25/10	15:01

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Extracted: 05/25/2010
Date Analyzed: 05/25/2010
Time Analyzed: 11:14

Lab Control Sample Summary
Volatile Organic Compounds

Sample Name: Lab Control Sample
Lab Code: KWG1004900-3
Extraction Method: EPA 5030A
Analysis Method: 8260B

File ID: J:\MS24\DATA\052510\0525F005.D
Instrument ID: MS24
Level: Low
Extraction Lot: KWG1004900

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1004900-5	J:\MS24\DATA\052510\0525F009.D	05/25/10	12:39
D-4-16	K1005244-003	J:\MS24\DATA\052510\0525F012.D	05/25/10	13:42
D-4-16MS	KWG1004900-1	J:\MS24\DATA\052510\0525F013.D	05/25/10	14:40
D-4-16DMS	KWG1004900-2	J:\MS24\DATA\052510\0525F014.D	05/25/10	15:01

Organic Analysis:
Volatile Organic Compounds

Validation Package

Raw Data

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16
Lab Code: K1005244-003
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
Chloromethane	ND	U	5.6	0.51	1	05/25/10	05/25/10	KWG1004900	
Vinyl Chloride	ND	U	5.6	0.35	1	05/25/10	05/25/10	KWG1004900	
Bromomethane	ND	U	5.6	0.69	1	05/25/10	05/25/10	KWG1004900	
Chloroethane	ND	U	5.6	0.35	1	05/25/10	05/25/10	KWG1004900	
Trichlorofluoromethane	ND	U	5.6	0.24	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloroethene	ND	U	5.6	0.26	1	05/25/10	05/25/10	KWG1004900	
Acetone	13	J	23	4.3	1	05/25/10	05/25/10	KWG1004900	
Carbon Disulfide	ND	U	5.6	0.29	1	05/25/10	05/25/10	KWG1004900	
Methylene Chloride	1.7	J	12	0.48	1	05/25/10	05/25/10	KWG1004900	
trans-1,2-Dichloroethene	ND	U	5.6	0.39	1	05/25/10	05/25/10	KWG1004900	*
1,1-Dichloroethane	ND	U	5.6	0.23	1	05/25/10	05/25/10	KWG1004900	
2,2-Dichloropropane	ND	U	5.6	0.40	1	05/25/10	05/25/10	KWG1004900	
cis-1,2-Dichloroethene	ND	U	5.6	0.26	1	05/25/10	05/25/10	KWG1004900	
2-Butanone (MEK)	4.0	J	23	1.1	1	05/25/10	05/25/10	KWG1004900	
Bromochloromethane	ND	U	5.6	0.16	1	05/25/10	05/25/10	KWG1004900	
Chloroform	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,1,1-Trichloroethane (TCA)	ND	U	5.6	0.39	1	05/25/10	05/25/10	KWG1004900	
Carbon Tetrachloride	ND	U	5.6	0.40	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloropropene	ND	U	5.6	0.30	1	05/25/10	05/25/10	KWG1004900	
Benzene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloroethane (EDC)	ND	U	5.6	0.17	1	05/25/10	05/25/10	KWG1004900	
Trichloroethene (TCE)	ND	U	5.6	0.30	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloropropane	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
Dibromomethane	ND	U	5.6	0.31	1	05/25/10	05/25/10	KWG1004900	
Bromodichloromethane	ND	U	5.6	0.17	1	05/25/10	05/25/10	KWG1004900	
cis-1,3-Dichloropropene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
4-Methyl-2-pentanone (MIBK)	ND	U	23	0.82	1	05/25/10	05/25/10	KWG1004900	
Toluene	ND	U	5.6	0.20	1	05/25/10	05/25/10	KWG1004900	
trans-1,3-Dichloropropene	ND	U	5.6	0.38	1	05/25/10	05/25/10	KWG1004900	
1,1,2-Trichloroethane	ND	U	5.6	0.26	1	05/25/10	05/25/10	KWG1004900	
Tetrachloroethene (PCE)	ND	U	5.6	0.29	1	05/25/10	05/25/10	KWG1004900	
2-Hexanone	ND	U	23	1.1	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichloropropane	ND	U	5.6	0.23	1	05/25/10	05/25/10	KWG1004900	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16
Lab Code: K1005244-003
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	5.6	0.21	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromoethane (EDB)	ND	U	23	0.30	1	05/25/10	05/25/10	KWG1004900	
Chlorobenzene	ND	U	5.6	0.28	1	05/25/10	05/25/10	KWG1004900	
Ethylbenzene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,1,1,2-Tetrachloroethane	ND	U	5.6	0.28	1	05/25/10	05/25/10	KWG1004900	
m,p-Xylenes	ND	U	5.6	0.41	1	05/25/10	05/25/10	KWG1004900	
o-Xylene	ND	U	5.6	0.15	1	05/25/10	05/25/10	KWG1004900	
Styrene	ND	U	5.6	0.15	1	05/25/10	05/25/10	KWG1004900	
Bromoform	ND	U	5.6	0.34	1	05/25/10	05/25/10	KWG1004900	
Isopropylbenzene	ND	U	23	0.15	1	05/25/10	05/25/10	KWG1004900	
1,1,2,2-Tetrachloroethane	ND	U	5.6	0.40	1	05/25/10	05/25/10	KWG1004900	
Bromobenzene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
n-Propylbenzene	ND	U	23	0.40	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichloropropane	ND	U	5.6	0.42	1	05/25/10	05/25/10	KWG1004900	
2-Chlorotoluene	ND	U	23	0.32	1	05/25/10	05/25/10	KWG1004900	
1,3,5-Trimethylbenzene	ND	U	23	0.40	1	05/25/10	05/25/10	KWG1004900	
4-Chlorotoluene	ND	U	23	0.29	1	05/25/10	05/25/10	KWG1004900	
tert-Butylbenzene	ND	U	23	0.37	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trimethylbenzene	ND	U	23	0.31	1	05/25/10	05/25/10	KWG1004900	
sec-Butylbenzene	ND	U	23	0.35	1	05/25/10	05/25/10	KWG1004900	
4-Isopropyltoluene	ND	U	23	0.31	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichlorobenzene	ND	U	5.6	0.27	1	05/25/10	05/25/10	KWG1004900	
1,4-Dichlorobenzene	ND	U	5.6	0.28	1	05/25/10	05/25/10	KWG1004900	
n-Butylbenzene	ND	U	23	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichlorobenzene	ND	U	5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromo-3-chloropropane	ND	U	23	0.73	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trichlorobenzene	ND	U	23	0.26	1	05/25/10	05/25/10	KWG1004900	
Hexachlorobutadiene	ND	U	23	0.24	1	05/25/10	05/25/10	KWG1004900	
Naphthalene	ND	U	23	0.40	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichlorobenzene	ND	U	23	0.24	1	05/25/10	05/25/10	KWG1004900	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16
Lab Code: K1005244-003

Units: ug/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	83-128	05/25/10	Acceptable
Toluene-d8	108	90-125	05/25/10	Acceptable
4-Bromofluorobenzene	103	77-124	05/25/10	Acceptable

Comments: _____

Exception Report

Data File: J:\MS24\DATA\052510\0525F012.D
Lab ID: K1005244-003
RunType: SMPL
Matrix: MISC. SOLID

Date Acquired: 05/25/2010 13:42
Date Quantitated: 05/25/2010 15:05
Batch ID: KWG1004880
Analysis Method: 8260B
ListJoinID: LJ1601

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Duplicate Lab Control Spike	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Spike	trans-1,2-Dichloroethene	75	77	127	<i>Adv Unpd</i>

Primary Review: *KA 5/25/10*

Secondary Review: *CA 5/25/10*

Quantitation Report

Bottle ID:	Tier: V	Matrix: MISC. SOLID
Prod Code: 8260B VOC_FP	Collect Date: 05/19/2010	Receive Date: 05/21/2010

Analysis Lot: KWG1004880	Prep Lot: KWG1004900	Report Group: K1005244
Analysis Method: 8260B	Prep Method: EPA 5030A	
Prep Ref: 911424	Prep Date: 05/25/2010	

Quant Method: J:\MS24\METHODS\042110MS24SO	Calibration ID: CAL9404
Title: Volatile Organic Compounds	Report List ID: LJ1601
Tune Ref: J:\MS24\DATA\052510\0525F002.D	Method ID: MJ120
MB Ref: J:\MS24\DATA\052510\0525F009.D	Quant based on Report List

Data File: J:\MS24\DATA\052510\0525F012.D	Instrument: MS24
Acqu Date: 05/25/2010 13:42	Quant Date: 05/25/2010 15:05
Run Type: SMPL	Vial: 11
Lab ID: K1005244-003	Dilution: 1.0
	Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	4.02	0.00	96	342019	50.00	OK
2	Chlorobenzene-d5	6.65	0.00	82	146554	50.00	OK
3	1,4-Dichlorobenzene-d4	8.98	0.00	152	116925	50.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	3.53	-0.01	0.00	113	85826	50.21	100	83-128	OK
1	Toluene-d8	5.31	0.00	0.00	98	323161	53.90	108	90-125	OK
2	4-Bromofluorobenzene	7.83	0.00	0.00	95	115686	51.43	103	77-124	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Dichlorodifluoromethane				85	0		0.25	U	
1	Chloromethane	0.99		0.00	50	944	0.3500	0.51	U	
1	Vinyl Chloride				62	0		0.35	U	
1	Bromomethane				96	0		0.69	U	
1	Chloroethane				64	0		0.35	U	
1	Trichlorofluoromethane				101	0		0.24	U	
1	1,1-Dichloroethene				96	0		0.26	U	
1	Acetone	1.98		0.00	43	9363	11.76	13	J	
1	Carbon Disulfide	2.01		0.00	76	775	0.1400	0.29	U	
1	Methylene Chloride	2.27		0.00	84	3164	1.54	1.7	J	
1	trans-1,2-Dichloroethene				96	0		0.39	U	
1	1,1-Dichloroethane				63	0		0.23	U	
1	2,2-Dichloropropane				77	0d		0.40	U	
1	cis-1,2-Dichloroethene				96	0		0.26	U	
1	2-Butanone (MEK)	3.21		0.00	72	921	3.60	4.0	J	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS24\DATA\052510\0525F012.D	Instrument:	MS24
Acqu Date:	05/25/2010 13:42	Quant Date:	05/25/2010 15:05
Run Type:	SMPLE	Vial:	11
Lab ID:	K1005244-003	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Bromochloromethane				128	0		0.16	U	
1	Chloroform				83	0		0.25	U	
1	1,1,1-Trichloroethane (TCA)				97	0		0.39	U	
1	Carbon Tetrachloride				117	0		0.40	U	
1	1,1-Dichloropropene				75	0		0.30	U	
1	Benzene				78	0		0.25	U	
1	1,2-Dichloroethane (EDC)				62	0d		0.17	U	
1	Trichloroethene (TCE)				95	0		0.30	U	
1	1,2-Dichloropropane				63	0		0.25	U	
1	Dibromomethane				93	0		0.31	U	
1	Bromodichloromethane				83	0		0.17	U	
1	cis-1,3-Dichloropropene				75	0		0.25	U	
1	4-Methyl-2-pentanone (MIBK)				58	0d		0.82	U	
1	Toluene	5.37		0.00	92	649	0.1500	0.20	U	
2	trans-1,3-Dichloropropene				75	0		0.38	U	
2	1,1,2-Trichloroethane				83	0		0.26	U	
2	Tetrachloroethene (PCE)				164	0		0.29	U	
2	2-Hexanone				57	0d		1.1	U	
2	1,3-Dichloropropane				76	0		0.23	U	
2	Dibromochloromethane				129	0		0.21	U	
2	1,2-Dibromoethane (EDB)				107	0		0.30	U	
2	Chlorobenzene				112	0		0.28	U	
2	Ethylbenzene				106	0		0.25	U	
2	1,1,1,2-Tetrachloroethane				131	0		0.28	U	
2	m,p-Xylenes				106	0		0.41	U	
2	o-Xylene				106	0		0.15	U	
2	Styrene				103	0		0.15	U	
2	Bromoform				173	0		0.34	U	
2	Isopropylbenzene				105	0		0.15	U	
3	1,1,2,2-Tetrachloroethane				83	0		0.40	U	
3	Bromobenzene				156	0		0.25	U	
3	n-Propylbenzene				91	0		0.40	U	
3	1,2,3-Trichloropropane				110	0		0.42	U	
3	2-Chlorotoluene				91	0		0.32	U	
3	1,3,5-Trimethylbenzene				105	0		0.40	U	
3	4-Chlorotoluene				91	0		0.29	U	
3	tert-Butylbenzene				119	0		0.37	U	
3	1,2,4-Trimethylbenzene				105	0		0.31	U	
3	sec-Butylbenzene				105	0		0.35	U	
3	4-Isopropyltoluene				119	0		0.31	U	
3	1,3-Dichlorobenzene				146	0		0.27	U	
3	1,4-Dichlorobenzene				146	0		0.28	U	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

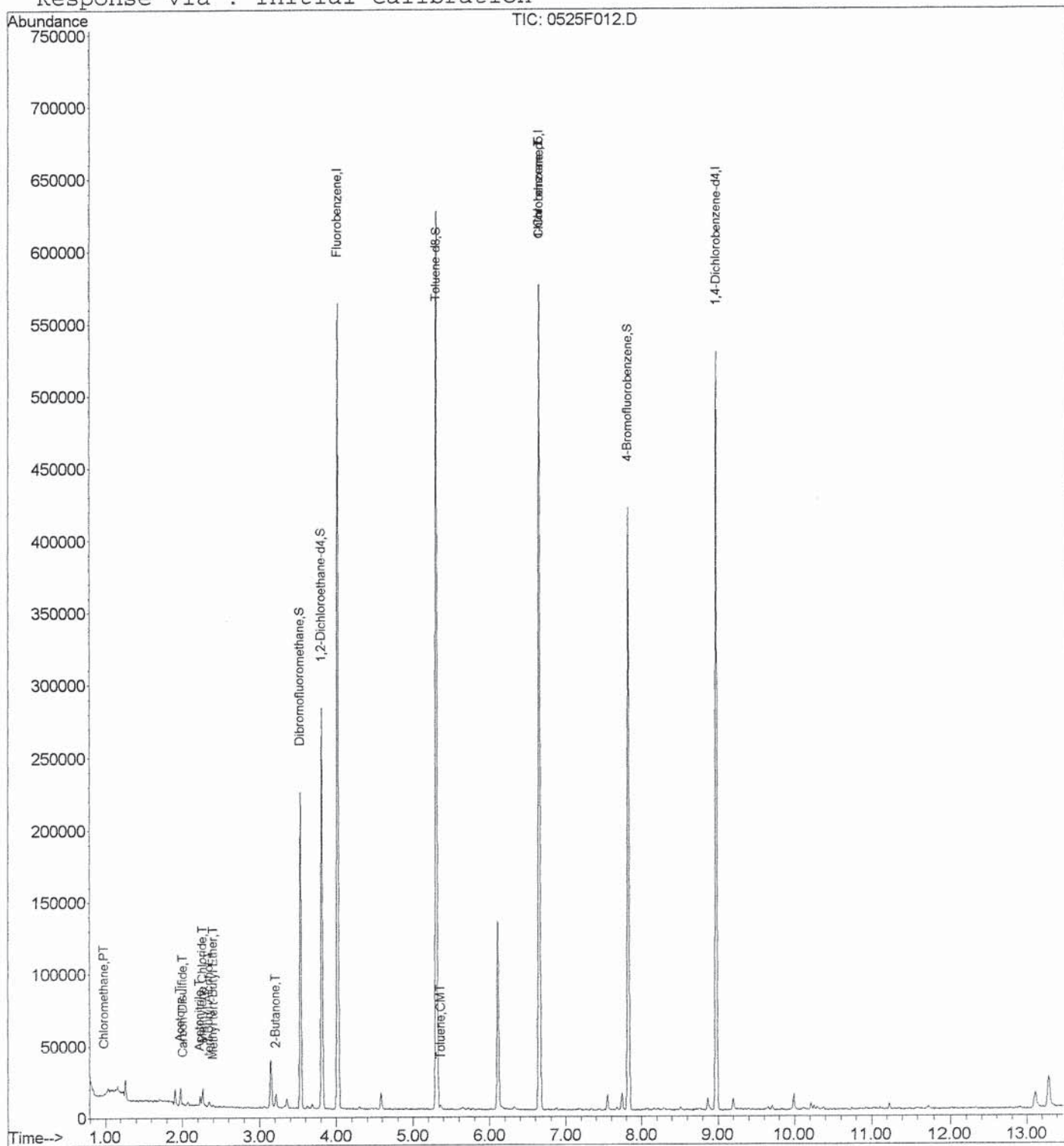
*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

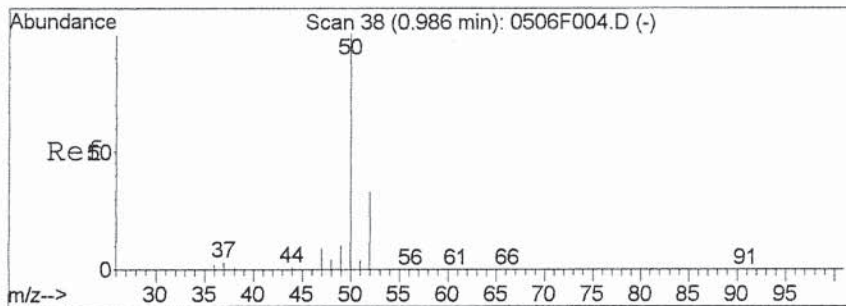
Data File : J:\MS24\DATA\052510\0525F012.D
 Acq On : 25 May 2010 1:42 pm
 Sample : K5244-003
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:05 2010

Vial: 11
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SO

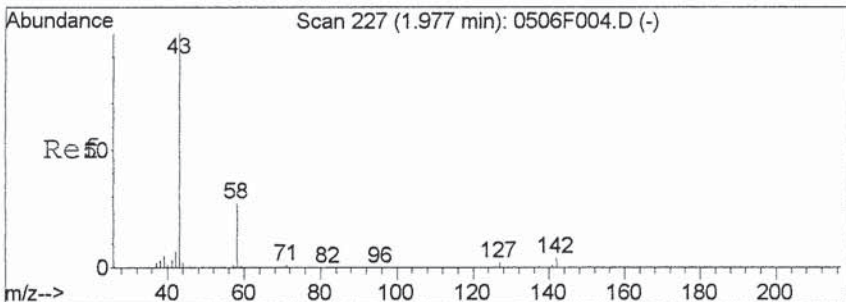
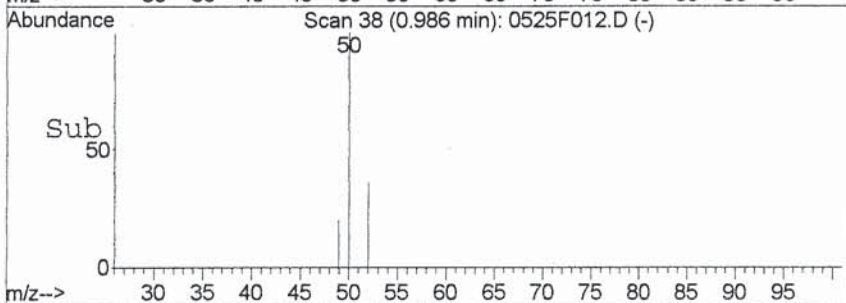
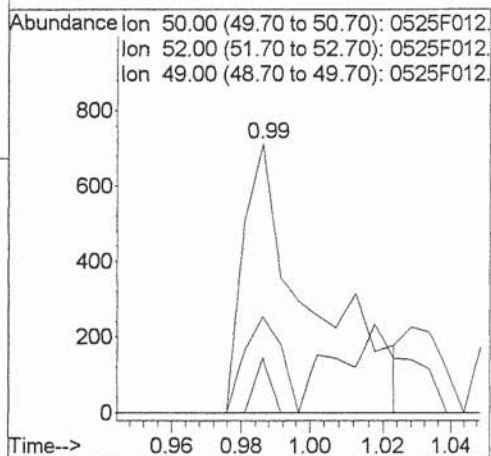
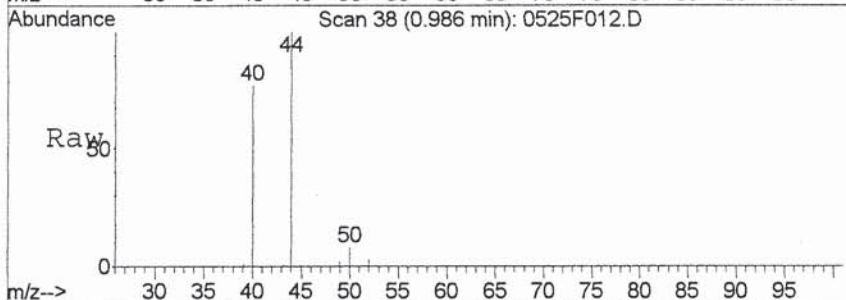
Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Initial Calibration





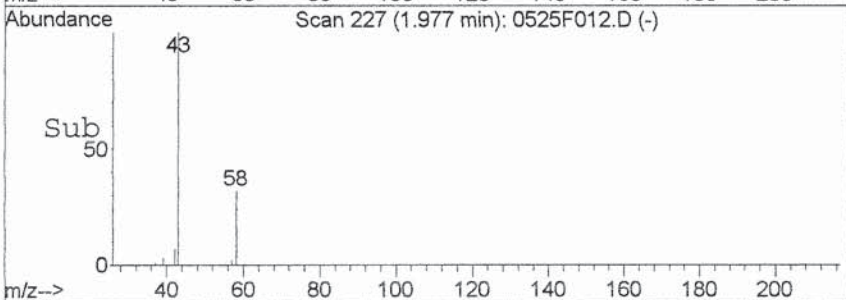
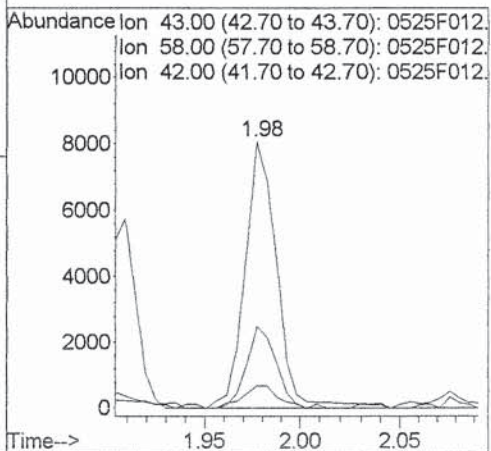
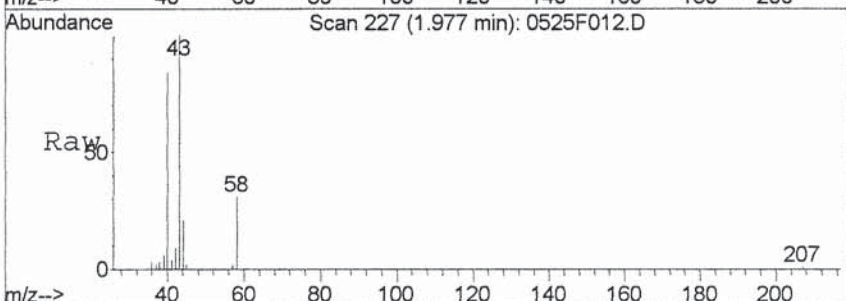
#3
 Chloromethane
 Concen: 0.35 PPB
 RT: 0.99 min Scan# 38
 Delta R.T. 0.00 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

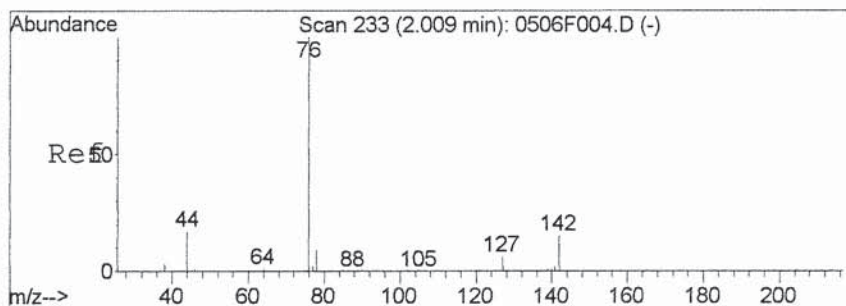
Tgt Ion	Resp	Lower	Upper
50	100		
52	35.5	2.6	62.6
49	20.4	0.0	40.5



#13
 Acetone
 Concen: 11.76 PPB
 RT: 1.98 min Scan# 227
 Delta R.T. 0.00 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

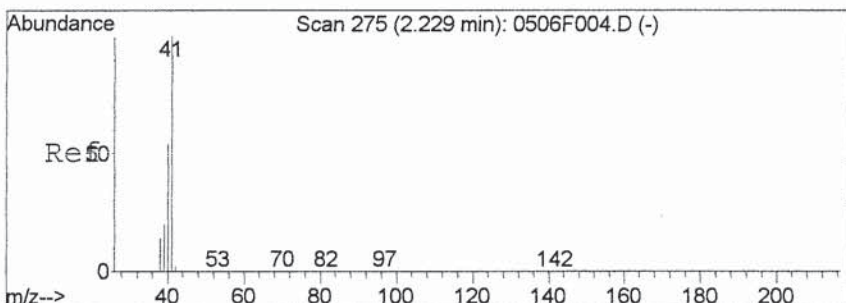
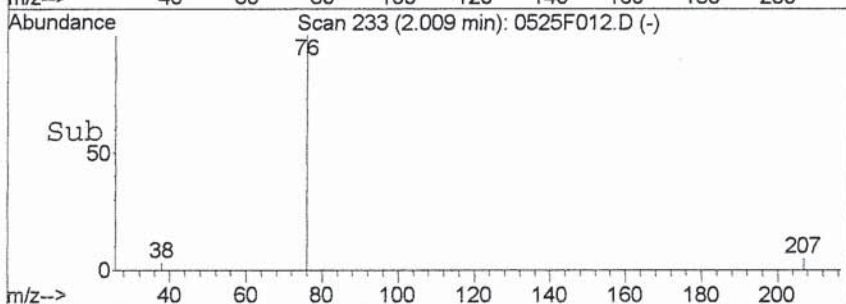
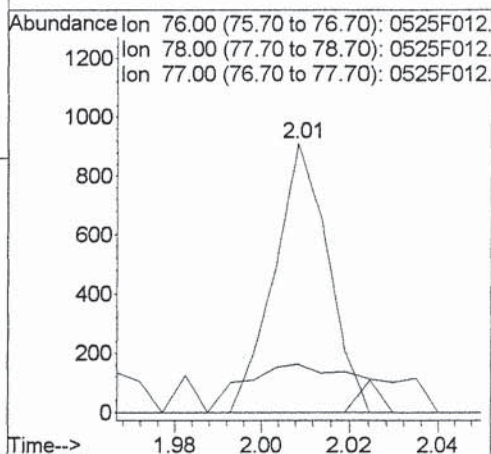
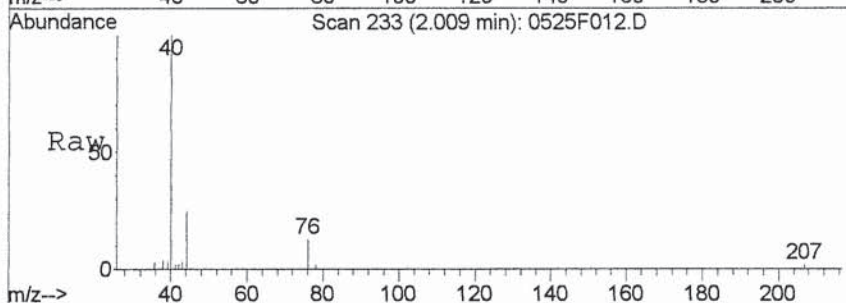
Tgt Ion	Resp	Lower	Upper
43	100		
58	30.9	0.0	57.0
42	8.6	0.0	37.4





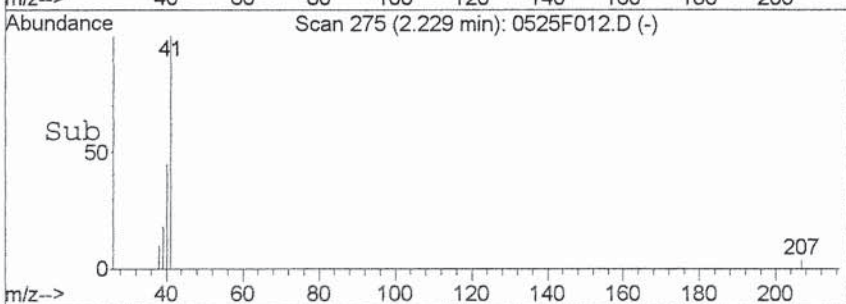
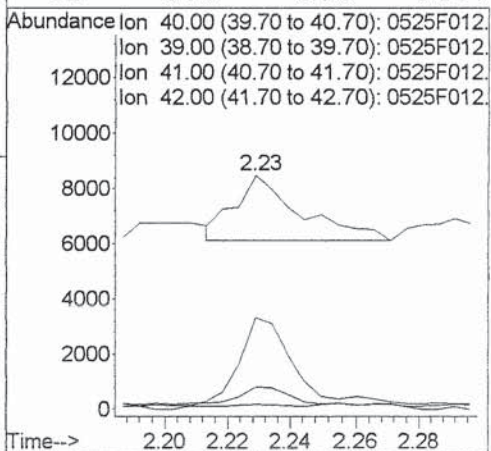
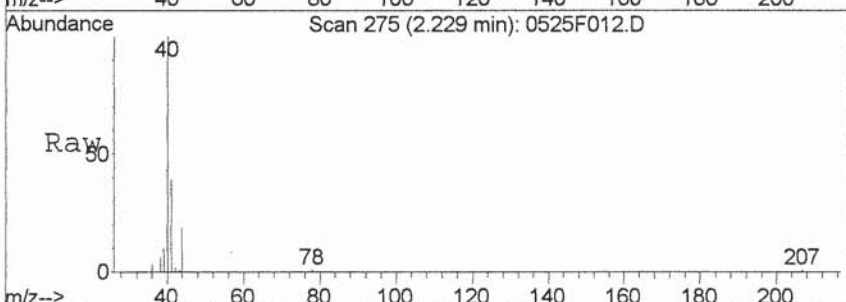
#15
 Carbon Disulfide
 Concen: 0.14 PPB
 RT: 2.01 min Scan# 233
 Delta R.T. 0.00 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

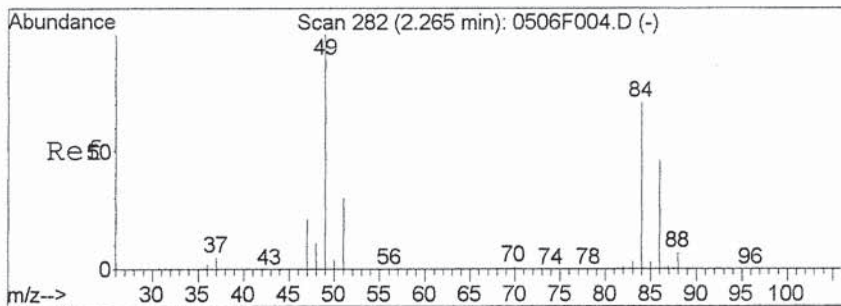
Tgt Ion	Resp	Lower	Upper
76	100		
78	17.9	0.0	38.7
77	0.0	0.0	32.5



#17
 Acetonitrile
 Concen: 21.95 PPB
 RT: 2.23 min Scan# 275
 Delta R.T. 0.00 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

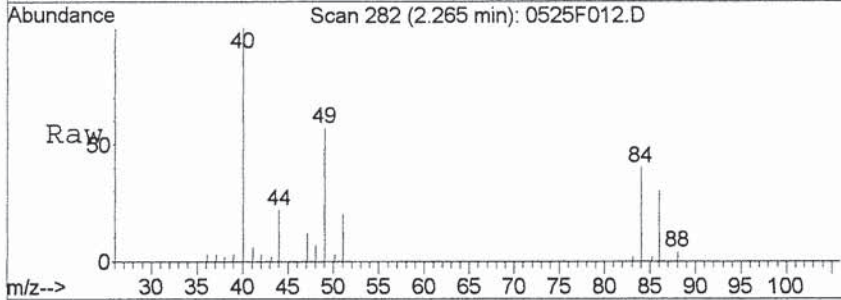
Tgt Ion	Resp	Lower	Upper
40	100		
39	28.8	6.4	66.4
41	115.2	159.7	219.7#
42	0.0	0.0	34.7



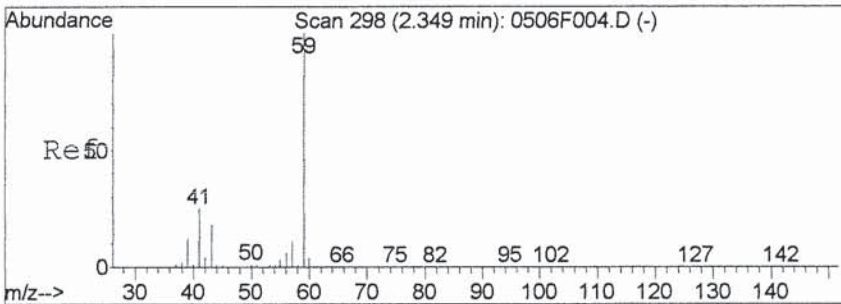
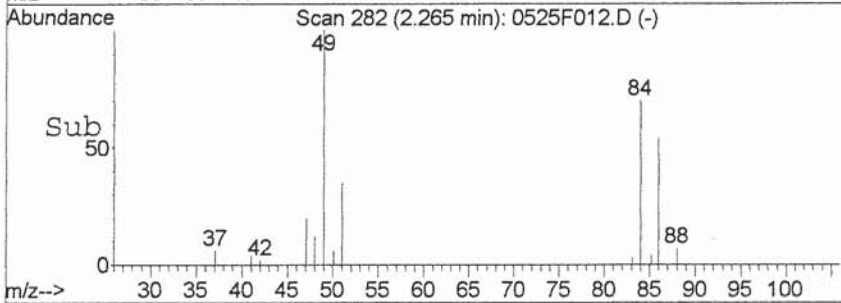
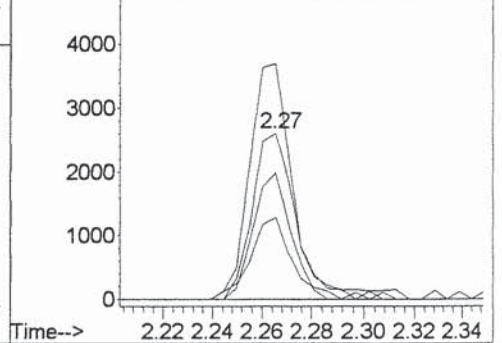


#18
 Methylene Chloride
 Concen: 1.54 PPB
 RT: 2.27 min Scan# 282
 Delta R.T. 0.00 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

Tgt Ion	Resp	Lower	Upper
84	3164		
84	100		
86	76.3	34.4	94.4
49	142.0	109.9	169.9
51	49.4	12.7	72.7

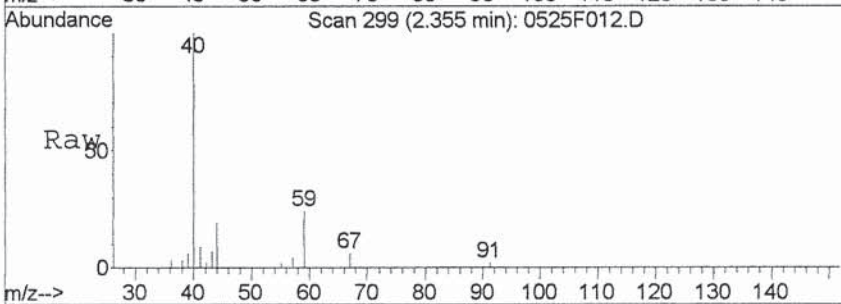


Abundance Ion 84.00 (83.70 to 84.70): 0525F012
 Ion 86.00 (85.70 to 86.70): 0525F012
 Ion 49.00 (48.70 to 49.70): 0525F012
 Ion 51.00 (50.70 to 51.70): 0525F012

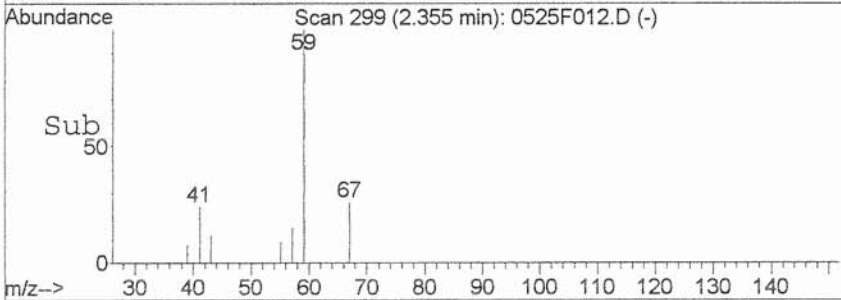
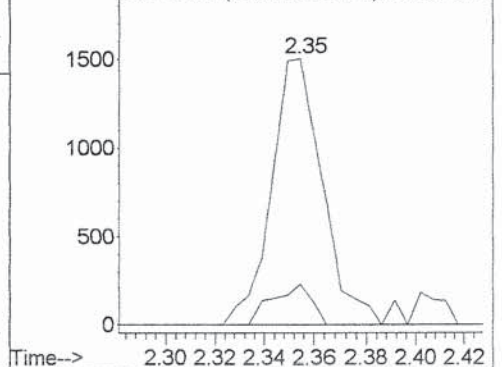


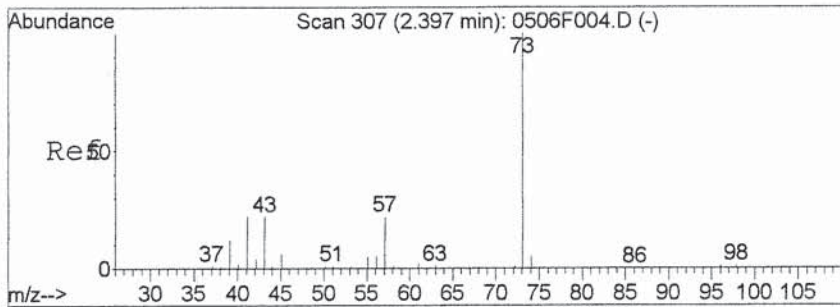
#19
 tert-Butyl Alcohol
 Concen: 7.47 PPB
 RT: 2.35 min Scan# 299
 Delta R.T. 0.01 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

Tgt Ion	Resp	Lower	Upper
59	2133		
59	100		
57	15.4	0.0	41.1
60	0.0	0.0	33.6



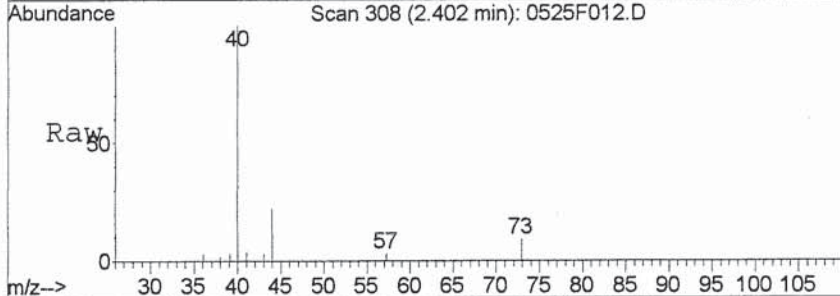
Abundance Ion 59.00 (58.70 to 59.70): 0525F012
 Ion 57.00 (56.70 to 57.70): 0525F012
 Ion 60.00 (59.70 to 60.70): 0525F012



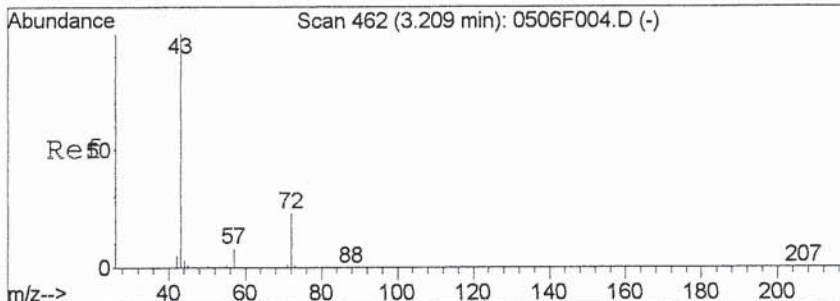
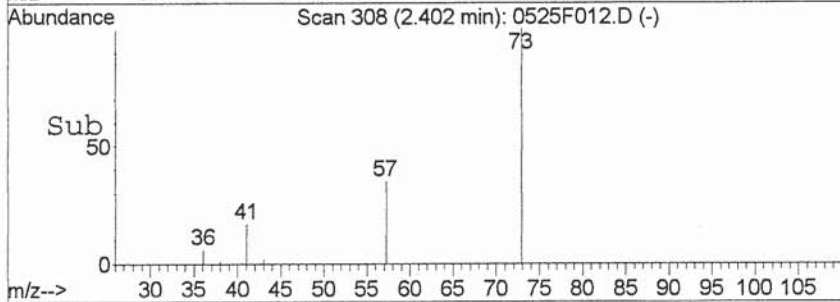
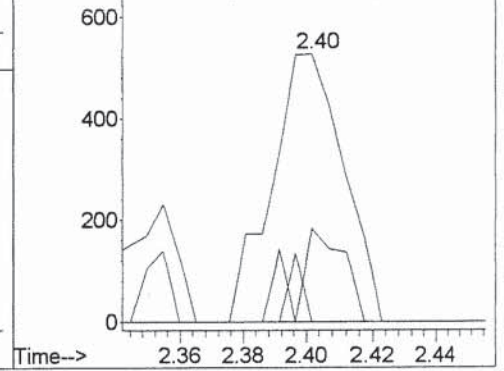


#21
 Methyl tert-Butyl Ether
 Concen: 0.14 PPB
 RT: 2.40 min Scan# 308
 Delta R.T. 0.01 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

Tgt Ion	Ratio	Resp	Lower	Upper
73	100	819		
57	34.7		0.0	53.3
55	0.0		0.0	35.5

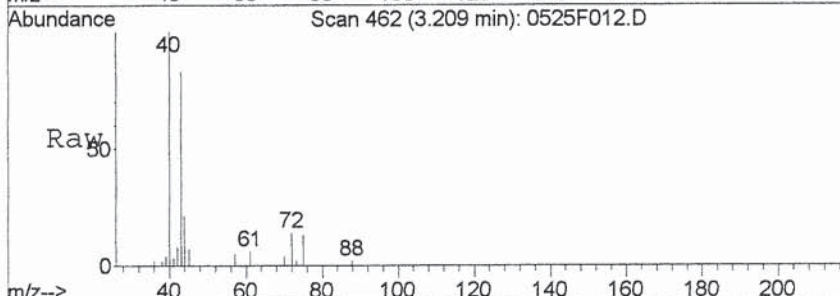


Abundance Ion 73.00 (72.70 to 73.70): 0525F012.
 Ion 57.00 (56.70 to 57.70): 0525F012.
 Ion 55.00 (54.70 to 55.70): 0525F012.

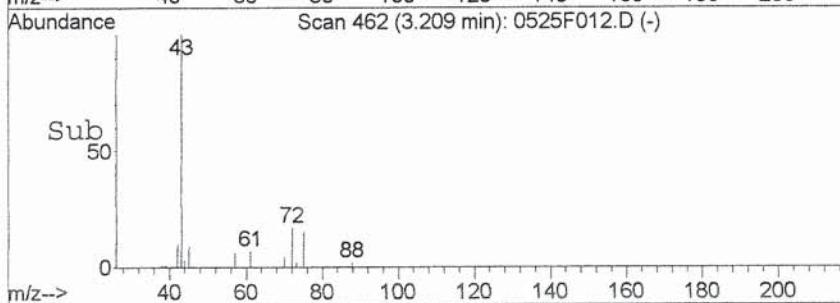
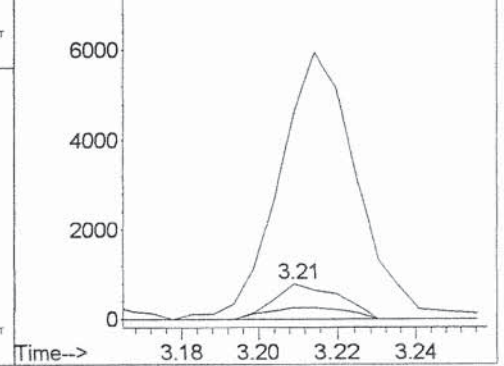


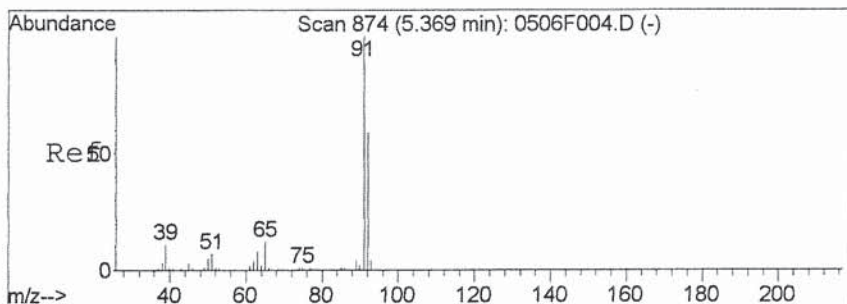
#31
 2-Butanone
 Concen: 3.60 PPB
 RT: 3.21 min Scan# 462
 Delta R.T. -0.00 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

Tgt Ion	Ratio	Resp	Lower	Upper
72	100	921		
43	566.6		403.8	463.8#
57	33.7		3.3	63.3



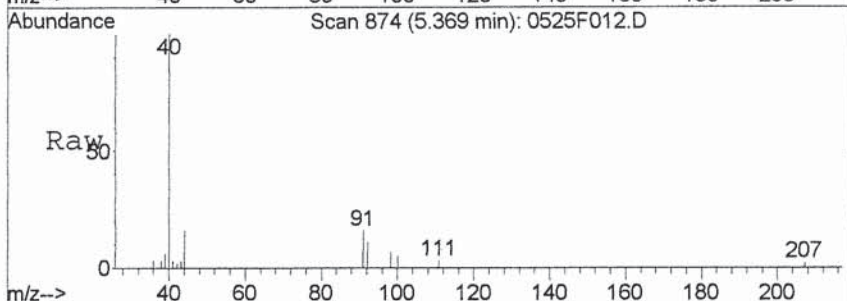
Abundance Ion 72.00 (71.70 to 72.70): 0525F012.
 Ion 43.00 (42.70 to 43.70): 0525F012.
 Ion 57.00 (56.70 to 57.70): 0525F012.



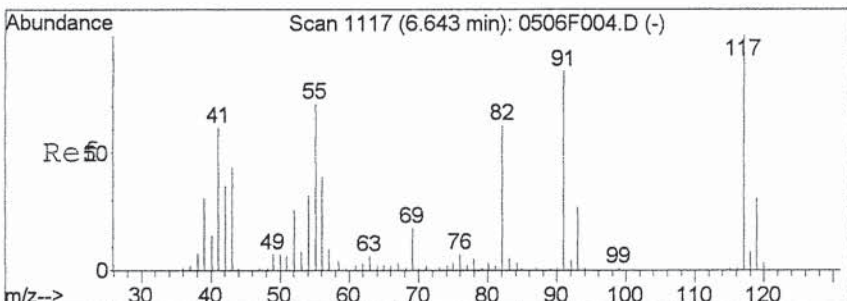
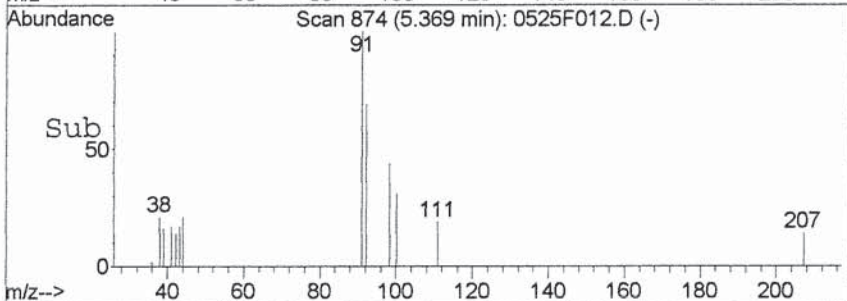
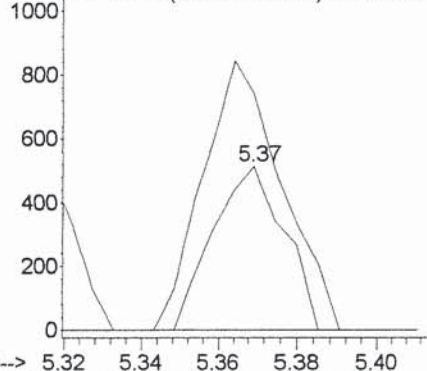


#58
 Toluene
 Concen: 0.15 PPB
 RT: 5.37 min Scan# 874
 Delta R.T. 0.00 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

Tgt Ion	Resp	Lower	Upper
92	649		
91	100		
91	144.6	138.9	198.9
65	0.0	0.0	50.5

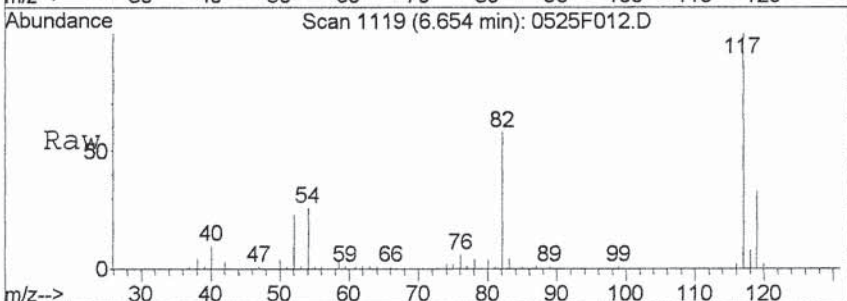


Abundance Ion 92.00 (91.70 to 92.70): 0525F012.
 Ion 91.00 (90.70 to 91.70): 0525F012.
 Ion 65.00 (64.70 to 65.70): 0525F012.

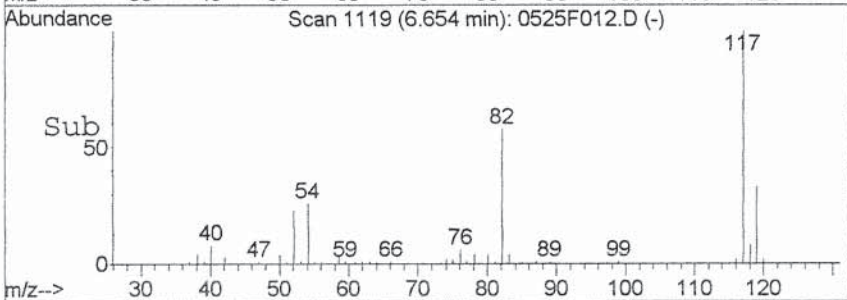
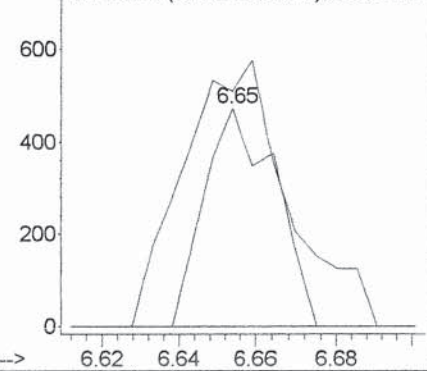


#69
 1-Chlorohexane
 Concen: 0.29 PPB
 RT: 6.65 min Scan# 1119
 Delta R.T. 0.01 min
 Lab File: 0525F012.D
 Acq: 25 May 2010 1:42 pm

Tgt Ion	Resp	Lower	Upper
91	600		
91	100		
41	81.4	41.3	101.3
69	0.0	0.0	51.4



Abundance Ion 91.00 (90.70 to 91.70): 0525F012.
 Ion 41.00 (40.70 to 41.70): 0525F012.
 Ion 69.00 (68.70 to 69.70): 0525F012.



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1004900-5
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
Chloromethane	ND	U	5.0	0.46	1	05/25/10	05/25/10	KWG1004900	
Vinyl Chloride	ND	U	5.0	0.31	1	05/25/10	05/25/10	KWG1004900	
Bromomethane	ND	U	5.0	0.62	1	05/25/10	05/25/10	KWG1004900	
Chloroethane	ND	U	5.0	0.31	1	05/25/10	05/25/10	KWG1004900	
Trichlorofluoromethane	ND	U	5.0	0.21	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloroethene	ND	U	5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
Acetone	6.3	J	20	3.9	1	05/25/10	05/25/10	KWG1004900	
Carbon Disulfide	ND	U	5.0	0.26	1	05/25/10	05/25/10	KWG1004900	
Methylene Chloride	1.5	J	10	0.43	1	05/25/10	05/25/10	KWG1004900	
trans-1,2-Dichloroethene	ND	U	5.0	0.35	1	05/25/10	05/25/10	KWG1004900	*
1,1-Dichloroethane	ND	U	5.0	0.20	1	05/25/10	05/25/10	KWG1004900	
2,2-Dichloropropane	ND	U	5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
cis-1,2-Dichloroethene	ND	U	5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
2-Butanone (MEK)	2.3	J	20	0.99	1	05/25/10	05/25/10	KWG1004900	
Bromochloromethane	ND	U	5.0	0.14	1	05/25/10	05/25/10	KWG1004900	
Chloroform	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.35	1	05/25/10	05/25/10	KWG1004900	
Carbon Tetrachloride	ND	U	5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloropropene	ND	U	5.0	0.27	1	05/25/10	05/25/10	KWG1004900	
Benzene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.15	1	05/25/10	05/25/10	KWG1004900	
Trichloroethene (TCE)	ND	U	5.0	0.27	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloropropane	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
Dibromomethane	ND	U	5.0	0.28	1	05/25/10	05/25/10	KWG1004900	
Bromodichloromethane	ND	U	5.0	0.15	1	05/25/10	05/25/10	KWG1004900	
cis-1,3-Dichloropropene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
4-Methyl-2-pentanone (MIBK)	ND	U	20	0.74	1	05/25/10	05/25/10	KWG1004900	
Toluene	ND	U	5.0	0.18	1	05/25/10	05/25/10	KWG1004900	
trans-1,3-Dichloropropene	ND	U	5.0	0.34	1	05/25/10	05/25/10	KWG1004900	
1,1,2-Trichloroethane	ND	U	5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
Tetrachloroethene (PCE)	ND	U	5.0	0.26	1	05/25/10	05/25/10	KWG1004900	
2-Hexanone	ND	U	20	0.93	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichloropropane	ND	U	5.0	0.20	1	05/25/10	05/25/10	KWG1004900	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1004900-5
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	5.0	0.19	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromoethane (EDB)	ND	U	20	0.27	1	05/25/10	05/25/10	KWG1004900	
Chlorobenzene	ND	U	5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
Ethylbenzene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
m,p-Xylenes	ND	U	5.0	0.37	1	05/25/10	05/25/10	KWG1004900	
o-Xylene	ND	U	5.0	0.13	1	05/25/10	05/25/10	KWG1004900	
Styrene	ND	U	5.0	0.13	1	05/25/10	05/25/10	KWG1004900	
Bromoform	ND	U	5.0	0.30	1	05/25/10	05/25/10	KWG1004900	
Isopropylbenzene	ND	U	20	0.13	1	05/25/10	05/25/10	KWG1004900	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
Bromobenzene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
n-Propylbenzene	ND	U	20	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichloropropane	ND	U	5.0	0.38	1	05/25/10	05/25/10	KWG1004900	
2-Chlorotoluene	ND	U	20	0.29	1	05/25/10	05/25/10	KWG1004900	
1,3,5-Trimethylbenzene	ND	U	20	0.36	1	05/25/10	05/25/10	KWG1004900	
4-Chlorotoluene	ND	U	20	0.26	1	05/25/10	05/25/10	KWG1004900	
tert-Butylbenzene	ND	U	20	0.33	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trimethylbenzene	ND	U	20	0.28	1	05/25/10	05/25/10	KWG1004900	
sec-Butylbenzene	ND	U	20	0.31	1	05/25/10	05/25/10	KWG1004900	
4-Isopropyltoluene	ND	U	20	0.28	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichlorobenzene	ND	U	5.0	0.24	1	05/25/10	05/25/10	KWG1004900	
1,4-Dichlorobenzene	ND	U	5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
n-Butylbenzene	ND	U	20	0.32	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichlorobenzene	ND	U	5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromo-3-chloropropane	ND	U	20	0.66	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trichlorobenzene	ND	U	20	0.23	1	05/25/10	05/25/10	KWG1004900	
Hexachlorobutadiene	ND	U	20	0.21	1	05/25/10	05/25/10	KWG1004900	
Naphthalene	ND	U	20	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichlorobenzene	ND	U	20	0.21	1	05/25/10	05/25/10	KWG1004900	

* See Case Narrative

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1004900-5

Units: ug/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	83-128	05/25/10	Acceptable
Toluene-d8	110	90-125	05/25/10	Acceptable
4-Bromofluorobenzene	104	77-124	05/25/10	Acceptable

Comments: _____

Exception Report

Data File: J:\MS24\DATA\052510\0525F009.D
Lab ID: KWG1004900-5
RunType: MB
Matrix: SEDIMENT

Date Acquired: 05/25/2010 12:39
Date Quantitated: 05/25/2010 14:57
Batch ID: KWG1004880
Analysis Method: 8260B
MethodJoinID: MJ120

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA		x
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	1,4-Dioxane	0.0037	0.01	NA	NT
Continuing Calibration Minimum RF	1,4-Dioxane	0.0034	0.01	NA	J

Primary Review: KA 5/25/10

Secondary Review: CMC 5/25/10

Quantitation Report

Bottle ID:	Tier:	Matrix:	SEDIMENT
Prod Code: 8260B VOC_FP	Collect Date:	Receive Date:	05/25/2010

Analysis Lot: KWG1004880	Prep Lot: KWG1004900	Report Group:
Analysis Method: 8260B	Prep Method: EPA 5030A	
Prep Ref: 911432	Prep Date: 05/25/2010	

Quant Method: J:\MS24\METHODS\042110MS24SO	Calibration ID: CAL9404
Title:	
Tune Ref: J:\MS24\DATA\052510\0525F002.D	Method ID: MJ120
MB Ref:	Quant based on Method

Data File: J:\MS24\DATA\052510\0525F009.D	Instrument: MS24
Acqu Date: 05/25/2010 12:39	Quant Date: 05/25/2010 14:57
Run Type: MB	Vial: 8
Lab ID: KWG1004900-5	Dilution: 1.0
	Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	4.02	0.00	96	348737	50.00	OK
2	Chlorobenzene-d5	6.65	0.00	82	149494	50.00	OK
3	1,4-Dichlorobenzene-d4	8.98	0.00	152	128420	50.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	3.53	-0.01	0.00	113	86905	49.86	100	43-153	OK
1	1,2-Dichloroethane-d4	3.81	0.00	0.00	65	116863	46.45	93	64-142	OK
1	Toluene-d8	5.31	0.00	0.00	98	336543	55.05	110	49-151	OK
2	4-Bromofluorobenzene	7.83	0.00	0.00	95	118745	51.75	104	33-150	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Dichlorodifluoromethane				85	0		0.22	U	
1	Chloromethane				50	0		0.46	U	
1	Vinyl Chloride				62	0		0.31	U	
1	Bromomethane				96	0		0.62	U	
1	Chloroethane				64	0		0.31	U	
1	Dichlorofluoromethane (CFC 21)				67	0		0.35	U	
1	Trichlorofluoromethane				101	0		0.21	U	
1	Diethyl Ether				59	0		5.0	U	
1	Acrolein				56	0		2.6	U	
1	Trichlorotrifluoroethane				151	0		0.56	U	
1	1,1-Dichloroethene				96	0		0.23	U	
1	Acetone	1.98		0.00	43	5072	6.25	6.25	J	
1	Iodomethane (Methyl Iodide)				142	0		0.57	U	
1	Carbon Disulfide				76	0		0.26	U	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File: J:\MS24\DATA\052510\0525F009.D
 Acqu Date: 05/25/2010 12:39
 Run Type: MB
 Lab ID: KWG1004900-5

Quant Date: 05/25/2010 14:57

Instrument: MS24
 Vial: 8
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	3-Chloro-1-propene				76	0		0.32	U	
1	Acetonitrile				40	0d		23	U	
1	Methylene Chloride	2.27		0.00	84	3082	1.47	1.47	J	
1	tert-Butyl Alcohol	2.36	0.01	0.00	59	1048	3.60	3.60	J	
1	Acrylonitrile				53	0		1.2	U	
1	Methyl tert-Butyl Ether	2.40		0.00	73	914	0.1500	0.18	U	
1	trans-1,2-Dichloroethene				96	0		0.35	U	
1	n-Hexane				57	0		0.22	U	
1	Diisopropyl Ether				45	0		0.16	U	
1	1,1-Dichloroethane				63	0		0.20	U	
1	Vinyl Acetate				86	0		0.92	U	
1	Chloroprene				53	0		0.76	U	
1	tert-Butyl Ethyl Ether				59	0		0.14	U	
1	2,2-Dichloropropane				77	0		0.36	U	
1	cis-1,2-Dichloroethene				96	0		0.23	U	
1	2-Butanone (MEK)	3.21		0.00	72	609	2.33	2.33	J	
1	Propionitrile				54	0		1.2	U	
1	Methacrylonitrile				67	0d		0.62	U	
1	Bromochloromethane				128	0		0.14	U	
1	Chloroform				83	0		0.22	U	
1	1,1,1-Trichloroethane (TCA)				97	0		0.35	U	
1	Carbon Tetrachloride				117	0		0.36	U	
1	1,1-Dichloropropene				75	0		0.27	U	
1	Isobutanol				43	0d		12	U	
1	Benzene				78	0		0.22	U	
1	1,2-Dichloroethane (EDC)				62	0d		0.15	U	
1	tert-Amyl Methyl Ether				55	0		0.32	U	
1	Trichloroethene (TCE)				95	0		0.27	U	
1	1,2-Dichloropropane				63	0		0.22	U	
1	Dibromomethane				93	0		0.28	U	
1	Methyl Methacrylate				69	0		0.39	U	
1	1,4-Dioxane				88	0		14	U	
1	Bromodichloromethane				83	0		0.15	U	
1	2-Nitropropane				41	0d		1.1	U	
1	2-Chloroethyl Vinyl Ether				63	0		0.48	U	
1	cis-1,3-Dichloropropene				75	0		0.22	U	
1	4-Methyl-2-pentanone (MIBK)				58	0d		0.74	U	
1	Toluene	5.36	-0.01	0.00	92	644	0.1400	0.18	U	
2	trans-1,3-Dichloropropene				75	0		0.34	U	
2	Ethyl Methacrylate				69	0d		0.34	U	
2	1,1,2-Trichloroethane				83	0		0.23	U	
2	Tetrachloroethene (PCE)				164	0		0.26	U	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS24\DATA\052510\0525F009.D	Instrument:	MS24
Acqu Date:	05/25/2010 12:39	Quant Date:	05/25/2010 14:57
Run Type:	MB	Vial:	8
Lab ID:	KWG1004900-5	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2	2-Hexanone				57	0d		0.93	U	
2	1,3-Dichloropropane				76	0		0.20	U	
2	Dibromochloromethane				129	0		0.19	U	
2	1,2-Dibromoethane (EDB)				107	0		0.27	U	
2	1-Chlorohexane	6.65	0.01	0.00	91	682	0.3200	0.320	J	
2	Chlorobenzene				112	0		0.25	U	
2	Ethylbenzene				106	0		0.22	U	
2	1,1,1,2-Tetrachloroethane				131	0		0.25	U	
2	m,p-Xylenes				106	0		0.37	U	
2	o-Xylene				106	0		0.13	U	
2	Styrene				103	0		0.13	U	
2	Bromoform				173	0		0.30	U	
2	Isopropylbenzene				105	0		0.13	U	
2	cis-1,4-Dichloro-2-butene				89	0		1.2	U	
3	1,1,2,2-Tetrachloroethane				83	0		0.36	U	
3	trans-1,4-Dichloro-2-butene				53	0		0.27	U	
3	Bromobenzene				156	0		0.22	U	
3	n-Propylbenzene				91	0		0.36	U	
3	1,2,3-Trichloropropane				110	0		0.38	U	
3	2-Chlorotoluene				91	0		0.29	U	
3	1,3,5-Trimethylbenzene				105	0		0.36	U	
3	4-Chlorotoluene				91	0		0.26	U	
3	tert-Butylbenzene				119	0		0.33	U	
3	1,2,4-Trimethylbenzene				105	0d		0.28	U	
3	sec-Butylbenzene				105	0d		0.31	U	
3	4-Isopropyltoluene				119	0		0.28	U	
3	1,3-Dichlorobenzene				146	0		0.24	U	
3	1,4-Dichlorobenzene				146	0		0.25	U	
3	n-Butylbenzene				91	0		0.32	U	
3	1,2-Dichlorobenzene				146	0		0.22	U	
3	1,2-Dibromo-3-chloropropane				155	0		0.66	U	
3	1,2,4-Trichlorobenzene				180	0		0.23	U	
3	Hexachlorobutadiene				225	0		0.21	U	
3	Naphthalene	11.08	-0.01	0.00	128	881	0.1700	0.36	U	
3	1,2,3-Trichlorobenzene				180	0		0.21	U	
	4-Vinyl-1-cyclohexene				0	0		5.0	U	NR
	Benzyl Chloride				0	0		5.0	U	NR
	Hexachloroethane				0	0		1.0	U	NR
	2,2,4-Trimethylpentane				0	0		5.0	U	NR
	1,3-Butadiene				0	0		2.0	U	NR
	1,1,2-Trifluoroethane				0	0		10	U	NR
	n-Butyl Alcohol				0	0		250	U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File: J:\MS24\DATA\052510\0525F009.D
 Acqu Date: 05/25/2010 12:39
 Run Type: MB
 Lab ID: KWG1004900-5

Quant Date: 05/25/2010 14:57

Instrument: MS24
 Vial: 8
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2-Propanol			0	0		200	U	NR
Ethyl Alcohol			0	0		200	U	NR
2,2-Dichloro-1,1,1-trifluoroetha			0	0		5.0	U	NR
Cyclohexanone			0	0		10	U	NR
2-Methylpentane			0	0		5.0	U	NR
n-Heptane			0	0		5.0	U	NR
3-Methylpentane			0	0		5.0	U	NR
Methylcyclopentane			0	0		5.0	U	NR
Ethyl Acetate			0	0		20	U	NR

Prep Amount: 5.00 g Dilution: 1.0
 Prep Final Vol: 5.0 ml Unit Factor: 1
 Solids: %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

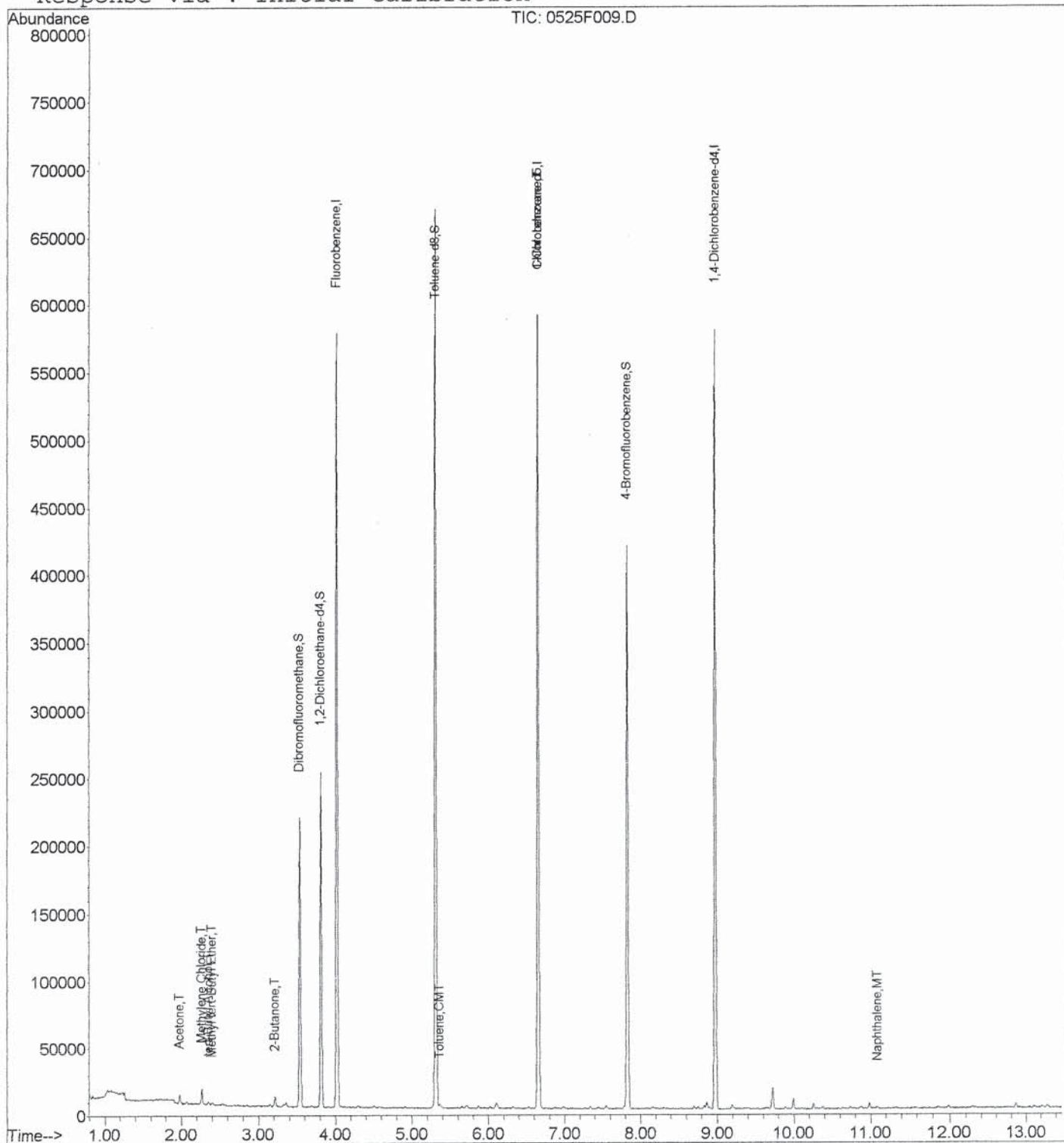
*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

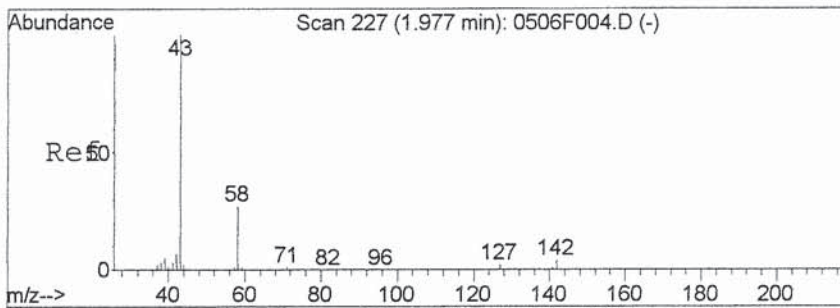
Data File : J:\MS24\DATA\052510\0525F009.D
 Acq On : 25 May 2010 12:39 pm
 Sample : MB
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:57 2010

Vial: 8
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SO

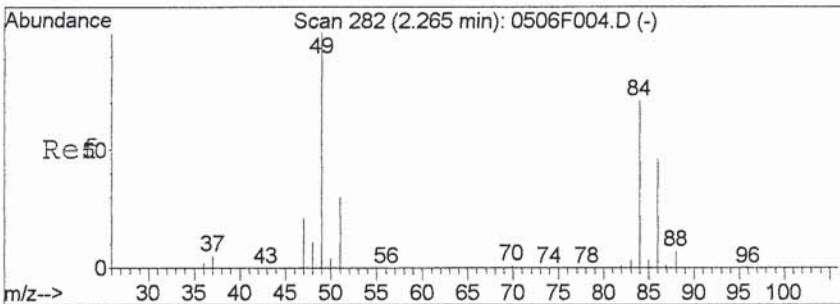
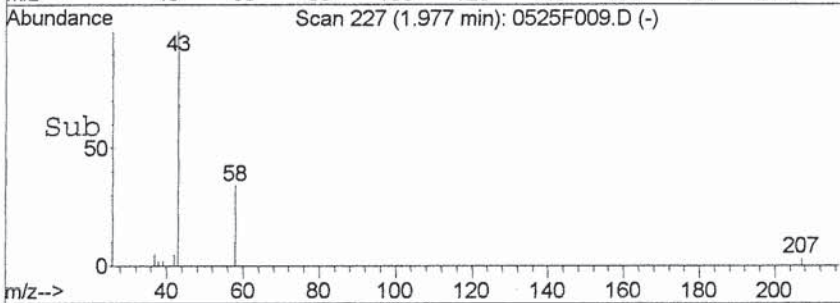
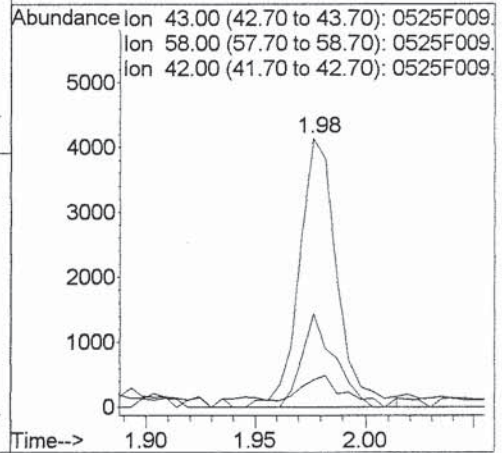
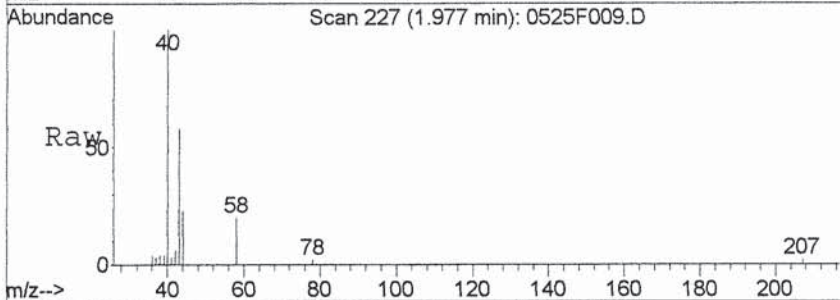
Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Initial Calibration





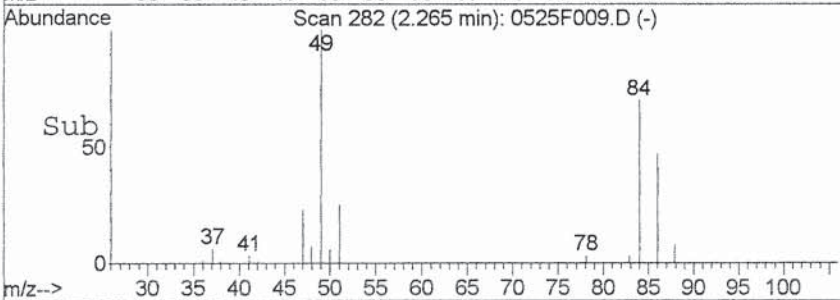
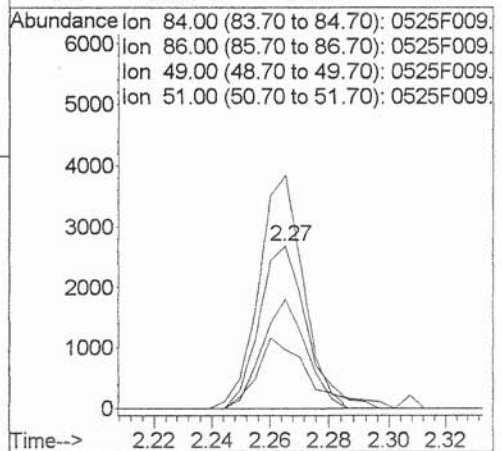
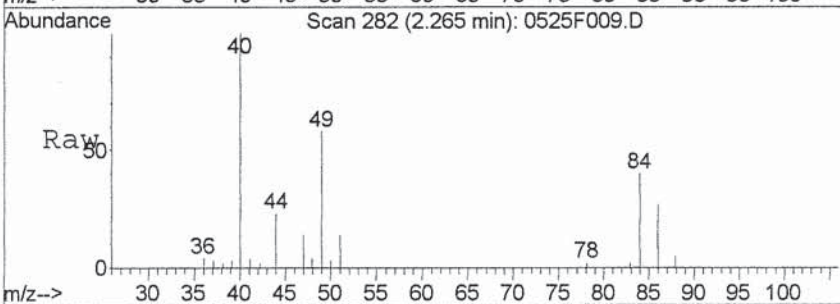
#13
 Acetone
 Concen: 6.25 PPB
 RT: 1.98 min Scan# 227
 Delta R.T. -0.00 min
 Lab File: 0525F009.D
 Acq: 25 May 2010 12:39 pm

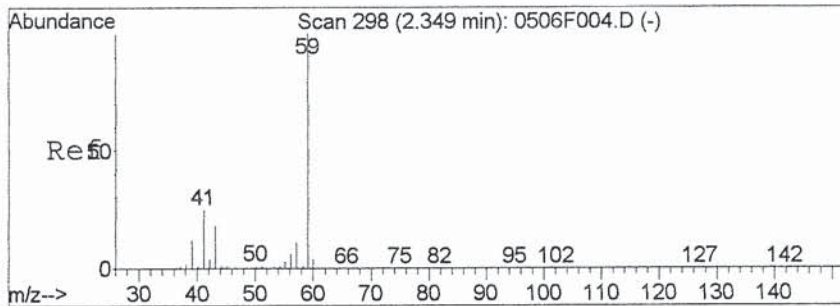
Tgt Ion	Resp	Lower	Upper
43	5072		
58	34.7	0.0	57.0
42	10.1	0.0	37.4



#18
 Methylene Chloride
 Concen: 1.47 PPB
 RT: 2.27 min Scan# 282
 Delta R.T. -0.00 min
 Lab File: 0525F009.D
 Acq: 25 May 2010 12:39 pm

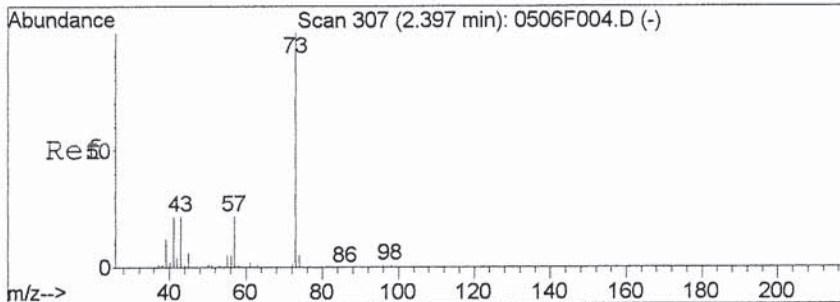
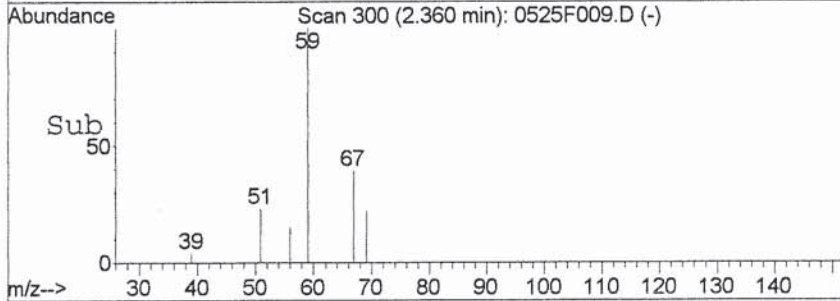
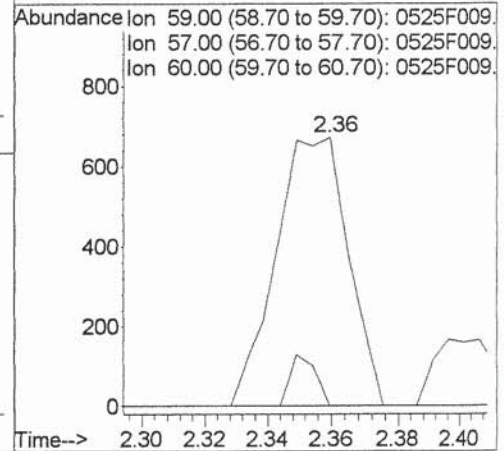
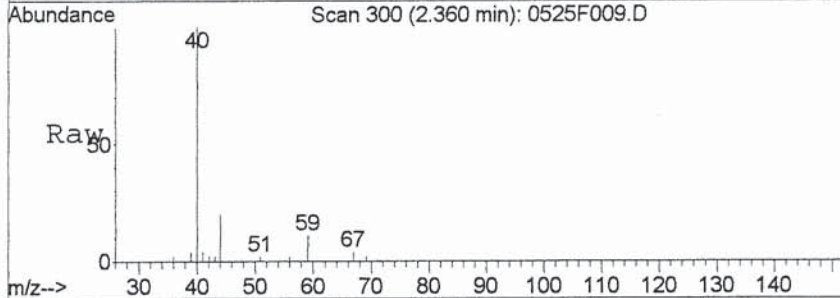
Tgt Ion	Resp	Lower	Upper
84	3082		
86	67.3	34.4	94.4
49	143.2	109.9	169.9
51	36.0	12.7	72.7





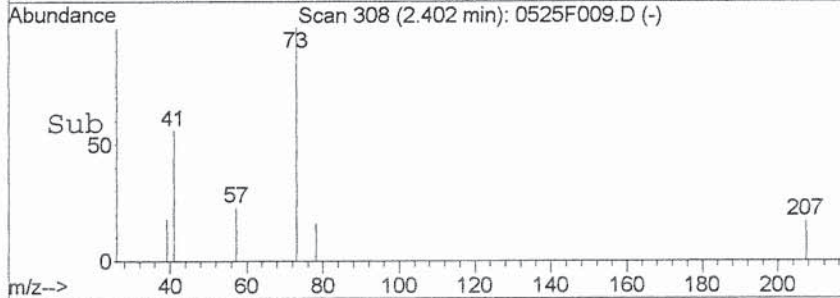
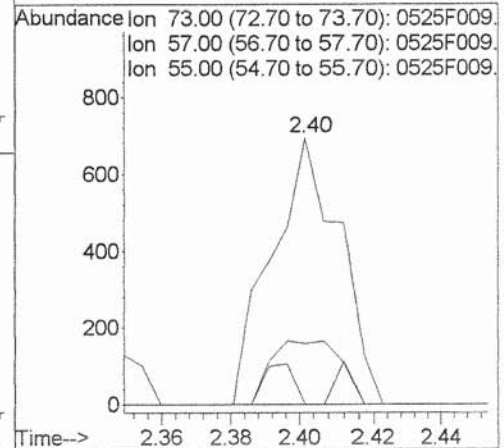
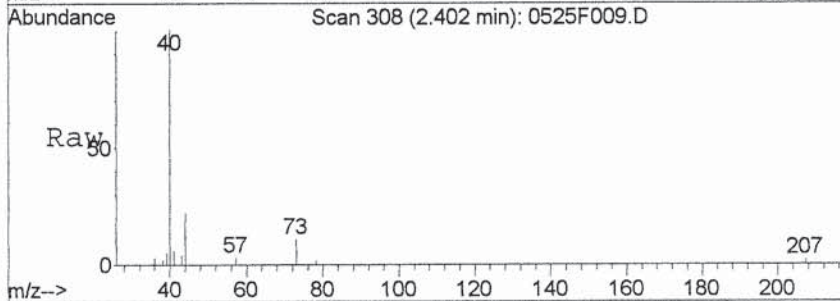
#19
 tert-Butyl Alcohol
 Concen: 3.60 PPB
 RT: 2.36 min Scan# 300
 Delta R.T. 0.01 min
 Lab File: 0525F009.D
 Acq: 25 May 2010 12:39 pm

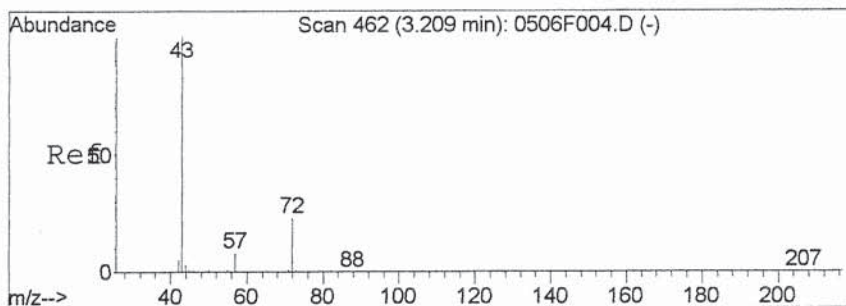
Tgt Ion	Resp	Lower	Upper
59	1048		
57	0.0	0.0	41.1
60	0.0	0.0	33.6



#21
 Methyl tert-Butyl Ether
 Concen: 0.15 PPB
 RT: 2.40 min Scan# 308
 Delta R.T. 0.01 min
 Lab File: 0525F009.D
 Acq: 25 May 2010 12:39 pm

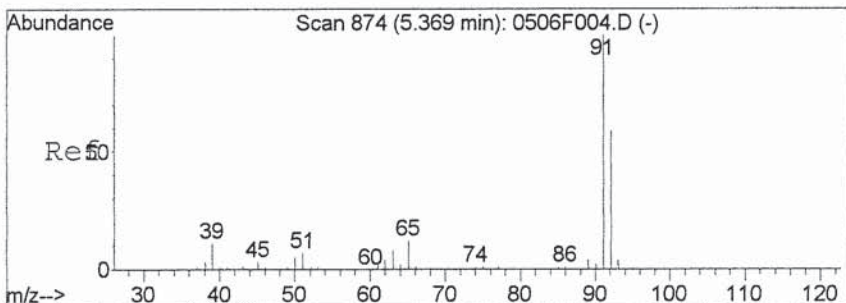
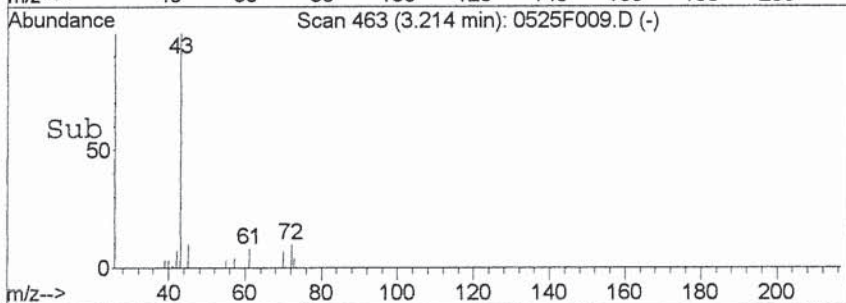
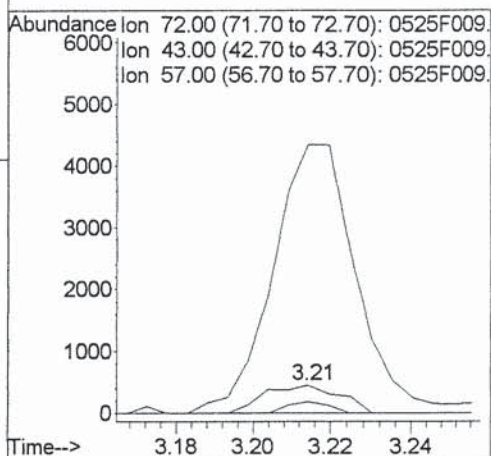
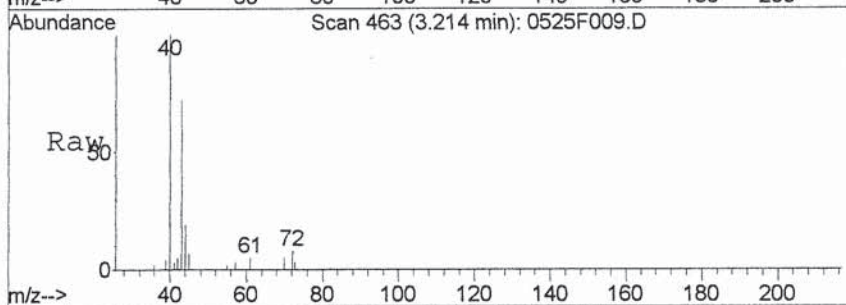
Tgt Ion	Resp	Lower	Upper
73	914		
57	22.9	0.0	53.3
55	0.0	0.0	35.5





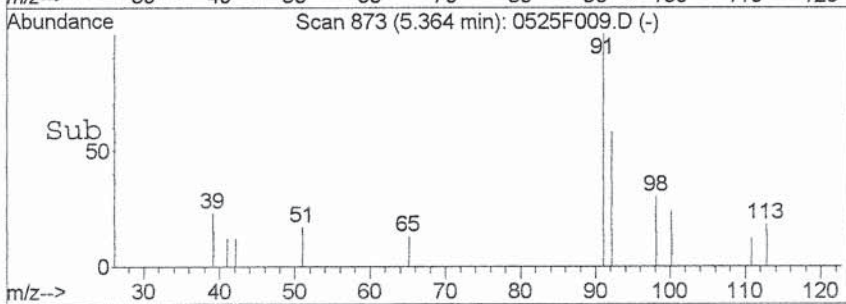
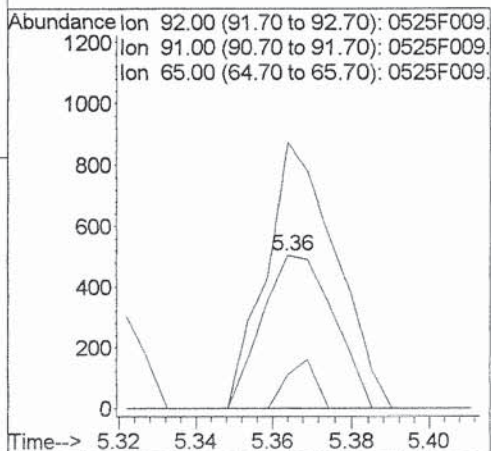
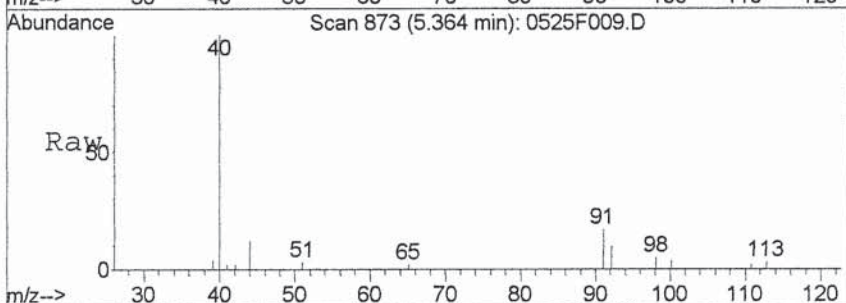
#31
 2-Butanone
 Concen: 2.33 PPB
 RT: 3.21 min Scan# 463
 Delta R.T. 0.01 min
 Lab File: 0525F009.D
 Acq: 25 May 2010 12:39 pm

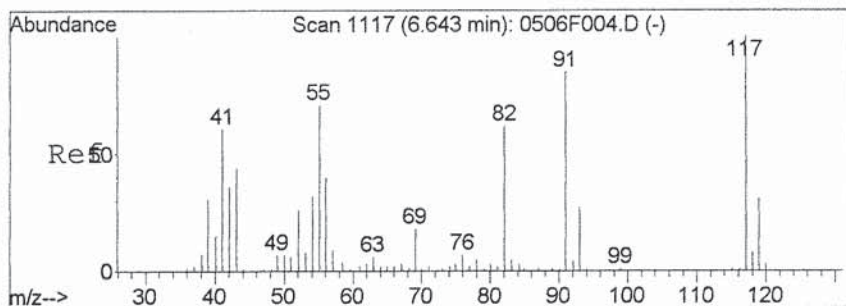
Tgt Ion	Resp	Lower	Upper
72	609		
72	100		
43	916.2	403.8	463.8#
57	41.2	3.3	63.3



#58
 Toluene
 Concen: 0.14 PPB
 RT: 5.36 min Scan# 873
 Delta R.T. -0.01 min
 Lab File: 0525F009.D
 Acq: 25 May 2010 12:39 pm

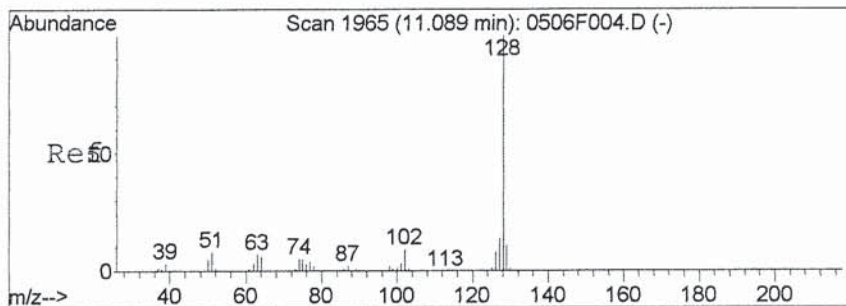
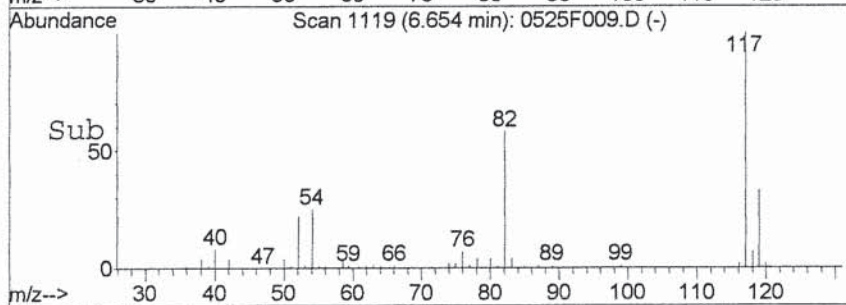
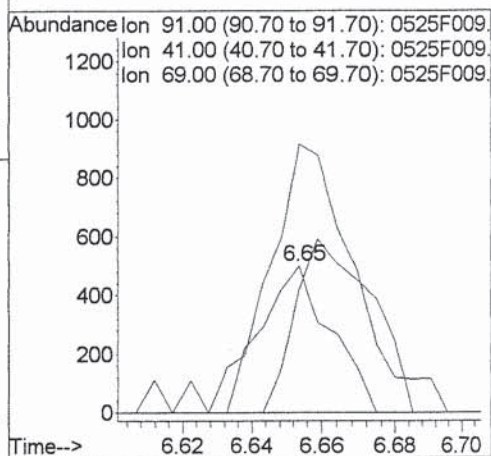
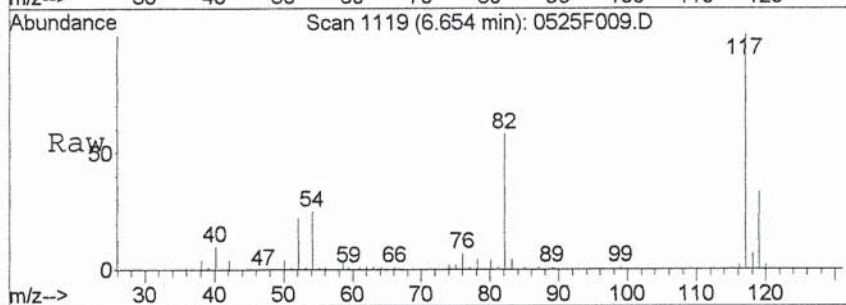
Tgt Ion	Resp	Lower	Upper
92	644		
92	100		
91	173.1	138.9	198.9
65	22.0	0.0	50.5





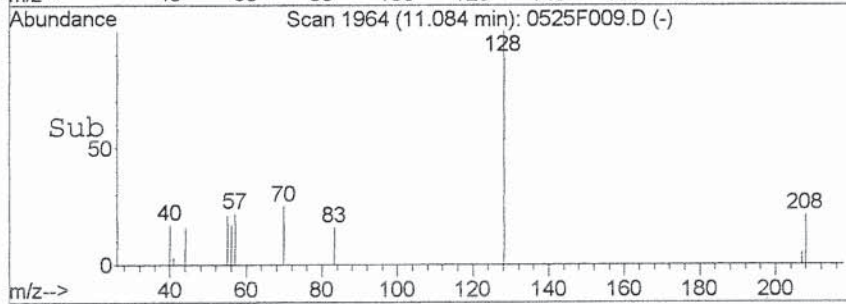
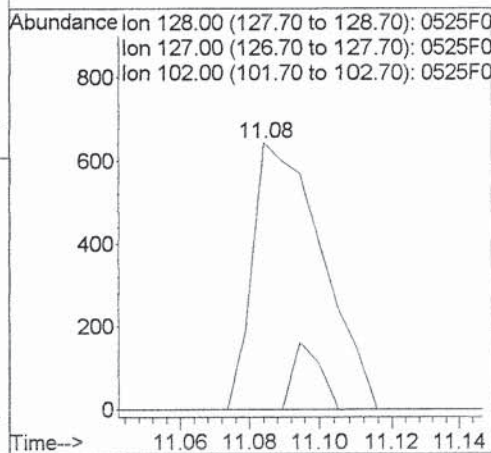
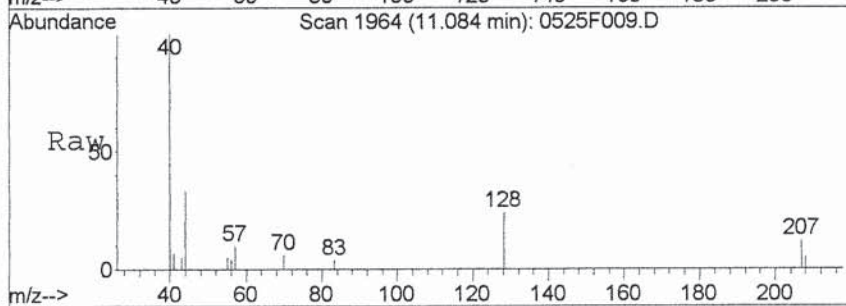
#69
 1-Chlorohexane
 Concen: 0.32 PPB
 RT: 6.65 min Scan# 1119
 Delta R.T. 0.01 min
 Lab File: 0525F009.D
 Acq: 25 May 2010 12:39 pm

Tgt Ion	Resp	Lower	Upper
91	100		
41	183.0	41.3	101.3#
69	84.0	0.0	51.4#



#101
 Naphthalene
 Concen: 0.17 PPB
 RT: 11.08 min Scan# 1964
 Delta R.T. -0.01 min
 Lab File: 0525F009.D
 Acq: 25 May 2010 12:39 pm

Tgt Ion	Resp	Lower	Upper
128	100		
127	0.0	0.0	43.7
102	0.0	0.0	38.7



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16MS
Lab Code: KWG1004900-1
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	48.0		5.5	0.25	1	05/25/10	05/25/10	KWG1004900	
Chloromethane	47.8		5.5	0.51	1	05/25/10	05/25/10	KWG1004900	
Vinyl Chloride	49.8		5.5	0.34	1	05/25/10	05/25/10	KWG1004900	
Bromomethane	31.9		5.5	0.68	1	05/25/10	05/25/10	KWG1004900	
Chloroethane	45.1		5.5	0.34	1	05/25/10	05/25/10	KWG1004900	
Trichlorofluoromethane	37.4		5.5	0.24	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloroethene	44.0		5.5	0.26	1	05/25/10	05/25/10	KWG1004900	
Acetone	297		22	4.3	1	05/25/10	05/25/10	KWG1004900	
Carbon Disulfide	98.5		5.5	0.29	1	05/25/10	05/25/10	KWG1004900	
Methylene Chloride	41.5		11	0.48	1	05/25/10	05/25/10	KWG1004900	
trans-1,2-Dichloroethene	44.4		5.5	0.39	1	05/25/10	05/25/10	KWG1004900	*
1,1-Dichloroethane	44.0		5.5	0.22	1	05/25/10	05/25/10	KWG1004900	
2,2-Dichloropropane	49.4		5.5	0.40	1	05/25/10	05/25/10	KWG1004900	
cis-1,2-Dichloroethene	44.9		5.5	0.26	1	05/25/10	05/25/10	KWG1004900	
2-Butanone (MEK)	412		22	1.1	1	05/25/10	05/25/10	KWG1004900	
Bromochloromethane	46.4		5.5	0.16	1	05/25/10	05/25/10	KWG1004900	
Chloroform	46.5		5.5	0.25	1	05/25/10	05/25/10	KWG1004900	
1,1,1-Trichloroethane (TCA)	48.3		5.5	0.39	1	05/25/10	05/25/10	KWG1004900	
Carbon Tetrachloride	47.8		5.5	0.40	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloropropene	46.9		5.5	0.30	1	05/25/10	05/25/10	KWG1004900	
Benzene	46.7		5.5	0.25	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloroethane (EDC)	45.4		5.5	0.17	1	05/25/10	05/25/10	KWG1004900	
Trichloroethene (TCE)	51.6		5.5	0.30	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloropropane	45.5		5.5	0.25	1	05/25/10	05/25/10	KWG1004900	
Dibromomethane	45.7		5.5	0.31	1	05/25/10	05/25/10	KWG1004900	
Bromodichloromethane	46.1		5.5	0.17	1	05/25/10	05/25/10	KWG1004900	
cis-1,3-Dichloropropene	41.8		5.5	0.25	1	05/25/10	05/25/10	KWG1004900	
4-Methyl-2-pentanone (MIBK)	469		22	0.82	1	05/25/10	05/25/10	KWG1004900	
Toluene	45.9		5.5	0.20	1	05/25/10	05/25/10	KWG1004900	
trans-1,3-Dichloropropene	57.1		5.5	0.38	1	05/25/10	05/25/10	KWG1004900	
1,1,2-Trichloroethane	48.5		5.5	0.26	1	05/25/10	05/25/10	KWG1004900	
Tetrachloroethene (PCE)	47.7		5.5	0.29	1	05/25/10	05/25/10	KWG1004900	
2-Hexanone	527		22	1.1	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichloropropane	49.2		5.5	0.22	1	05/25/10	05/25/10	KWG1004900	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16MS
Lab Code: KWG1004900-1
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	50.7		5.5	0.21	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromoethane (EDB)	52.2		22	0.30	1	05/25/10	05/25/10	KWG1004900	
Chlorobenzene	44.0		5.5	0.28	1	05/25/10	05/25/10	KWG1004900	
Ethylbenzene	46.4		5.5	0.25	1	05/25/10	05/25/10	KWG1004900	
1,1,1,2-Tetrachloroethane	47.9		5.5	0.28	1	05/25/10	05/25/10	KWG1004900	
m,p-Xylenes	96.3		5.5	0.41	1	05/25/10	05/25/10	KWG1004900	
o-Xylene	45.9		5.5	0.15	1	05/25/10	05/25/10	KWG1004900	
Styrene	45.8		5.5	0.15	1	05/25/10	05/25/10	KWG1004900	
Bromoform	59.9		5.5	0.33	1	05/25/10	05/25/10	KWG1004900	
Isopropylbenzene	49.1		22	0.15	1	05/25/10	05/25/10	KWG1004900	
1,1,2,2-Tetrachloroethane	54.6		5.5	0.40	1	05/25/10	05/25/10	KWG1004900	
Bromobenzene	50.4		5.5	0.25	1	05/25/10	05/25/10	KWG1004900	
n-Propylbenzene	52.9		22	0.40	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichloropropane	71.0		5.5	0.42	1	05/25/10	05/25/10	KWG1004900	
2-Chlorotoluene	52.7		22	0.32	1	05/25/10	05/25/10	KWG1004900	
1,3,5-Trimethylbenzene	50.3		22	0.40	1	05/25/10	05/25/10	KWG1004900	
4-Chlorotoluene	52.3		22	0.29	1	05/25/10	05/25/10	KWG1004900	
tert-Butylbenzene	49.5		22	0.37	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trimethylbenzene	46.7		22	0.31	1	05/25/10	05/25/10	KWG1004900	
sec-Butylbenzene	44.4		22	0.34	1	05/25/10	05/25/10	KWG1004900	
4-Isopropyltoluene	44.0		22	0.31	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichlorobenzene	47.0		5.5	0.27	1	05/25/10	05/25/10	KWG1004900	
1,4-Dichlorobenzene	46.2		5.5	0.28	1	05/25/10	05/25/10	KWG1004900	
n-Butylbenzene	41.8		22	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichlorobenzene	45.3		5.5	0.25	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromo-3-chloropropane	91.0		22	0.73	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trichlorobenzene	38.9		22	0.26	1	05/25/10	05/25/10	KWG1004900	
Hexachlorobutadiene	27.9		22	0.24	1	05/25/10	05/25/10	KWG1004900	
Naphthalene	44.4		22	0.40	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichlorobenzene	40.0		22	0.24	1	05/25/10	05/25/10	KWG1004900	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16MS
Lab Code: KWG1004900-1

Units: ug/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	83-128	05/25/10	Acceptable
Toluene-d8	109	90-125	05/25/10	Acceptable
4-Bromofluorobenzene	108	77-124	05/25/10	Acceptable

Comments: _____

Exception Report

Data File: J:\MS24\DATA\052510\0525F013.D
Lab ID: KWG1004900-1 -- K1005244-003MS
RunType: MS
Matrix: MISC. SOLID

Date Acquired: 05/25/2010 14:40
Date Quantitated: 05/25/2010 15:26
Batch ID: KWG1004880
Analysis Method: 8260B
MethodJoinID: MJ120

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA		x
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	1,4-Dioxane	0.0037	0.01	NA	NR
Continuing Calibration Minimum RF	1,4-Dioxane	0.0034	0.01	NA	I

Primary Review: Ke Stano
 Secondary Review: Com 5/25/10

Quantitation Report

Bottle ID:	Tier:	Matrix:	MISC. SOLID
Prod Code: 8260B VOC_FP	Collect Date:	Receive Date:	05/25/2010

Analysis Lot: KWG1004880	Prep Lot: KWG1004900	Report Group:
Analysis Method: 8260B	Prep Method: EPA 5030A	
Prep Ref: 911428	Prep Date: 05/25/2010	

Quant Method: J:\MS24\METHODS\042110MS24SO	Calibration ID: CAL9404
Title:	
Tune Ref: J:\MS24\DATA\052510\0525F002.D	Method ID: MJ120
MB Ref: J:\MS24\DATA\052510\0525F009.D	Quant based on Method

Data File: J:\MS24\DATA\052510\0525F013.D	Instrument: MS24
Acqu Date: 05/25/2010 14:40	Quant Date: 05/25/2010 15:26
Run Type: MS	Vial: 12
Lab ID: KWG1004900-1 -- K1005244-003MS	Dilution: 1.0
	Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	4.02	0.00	96	420529	50.00	OK
2	Chlorobenzene-d5	6.65	0.00	82	177982	50.00	OK
3	1,4-Dichlorobenzene-d4	8.98	0.00	152	145052	50.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	3.53	-0.01	0.00	113	103877	49.42	99	83-128	OK
1	1,2-Dichloroethane-d4	3.81	0.00	0.00	65	150773	49.69	99	64-142	OK
1	Toluene-d8	5.31	0.00	0.00	98	400179	54.28	109	90-125	OK
2	4-Bromofluorobenzene	7.83	0.00	0.00	95	147981	54.17	108	77-124	OK

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Dichlorodifluoromethane	0.85	-0.01	0.00	85	113599	43.76	48.0		
1	Chloromethane	0.98	-0.01	0.00	50	143441	43.58	47.8		
1	Vinyl Chloride	1.05	-0.01	0.00	62	132654	45.43	49.8		
1	Bromomethane	1.28	-0.02	0.00	96	70612m	29.07	31.9		
1	Chloroethane	1.35	-0.02	0.00	64	78331	41.16	45.1		
1	Dichlorofluoromethane (CFC 21	1.49	-0.03	-0.01	67	501	0.1000	0.110		J
1	Trichlorofluoromethane	1.50	-0.01	0.00	101	137442	34.14	37.4		
1	Diethyl Ether	1.71	-0.02	0.00	59	95014	39.45	43.2		
1	Acrolein	1.86	-0.01	0.00	56	33362	71.74	78.6		J
1	Trichlorotrifluoroethane	1.85	-0.01	0.00	151	64690	42.03	46.1		
1	1,1-Dichloroethene	1.87	-0.01	0.00	96	70955	40.18	44.0		
1	Acetone	1.97	-0.01	0.00	43	265777	271.44	297		
1	Iodomethane (Methyl Iodide)	1.99	-0.01	0.00	142	168877	70.02	76.7		
1	Carbon Disulfide	2.00	-0.01	0.00	76	623432	89.85	98.5		

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 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS24\DATA\052510\0525F013.D	Instrument:	MS24
Acqu Date:	05/25/2010 14:40	Quant Date:	05/25/2010 15:26
Run Type:	MS	Vial:	12
Lab ID:	KWG1004900-1 -- K1005244-003MS	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	3-Chloro-1-propene	2.15	-0.01	0.00	76	85567	67.75	74.3		
1	Acetonitrile	2.23		0.00	40	153139	796.45	873		
1	Methylene Chloride	2.26	-0.01	0.00	84	95864	37.87	41.5		
1	tert-Butyl Alcohol	2.35		0.00	59	357066	1,017	1110		
1	Acrylonitrile	2.50		0.00	53	140851	143.93	158		
1	Methyl tert-Butyl Ether	2.39	-0.01	0.00	73	340655	46.03	50.4		
1	trans-1,2-Dichloroethene	2.41	-0.01	0.00	96	89547	40.54	44.4		
1	n-Hexane	2.53	-0.01	0.00	57	187046	61.79	67.7		
1	Diisopropyl Ether	2.73	-0.01	0.00	45	673974	81.00	88.8		
1	1,1-Dichloroethane	2.74	-0.01	0.00	63	175003	40.17	44.0		
1	Vinyl Acetate	2.78		0.00	86	95632	235.87	259		
1	Chloroprene	2.77	-0.01	0.00	53	252214	85.10	93.3		
1	tert-Butyl Ethyl Ether	2.99		0.00	59	653179	86.47	94.8		
1	2,2-Dichloropropane	3.14	-0.01	0.00	77	134518	45.04	49.4		
1	cis-1,2-Dichloroethene	3.17	-0.01	0.00	96	100350	40.95	44.9		
1	2-Butanone (MEK)	3.20	-0.01	0.00	72	118259	375.48	412		
1	Propionitrile	3.32		0.00	54	35726	91.60	100		
1	Methacrylonitrile	3.40		0.00	67	106414	102.74	113		
1	Bromochloromethane	3.36		0.00	128	50816	42.30	46.4		
1	Chloroform	3.40	-0.01	0.00	83	174260	42.39	46.5		
1	1,1,1-Trichloroethane (TCA)	3.50	-0.01	0.00	97	138429	44.09	48.3		
1	Carbon Tetrachloride	3.59		0.00	117	117874	43.66	47.8		
1	1,1-Dichloropropene	3.62	-0.01	0.00	75	120710	42.79	46.9		
1	Isobutanol	3.78		0.00	43	218735	1,701	1860		
1	Benzene	3.78	-0.01	0.00	78	381793	42.61	46.7		
1	1,2-Dichloroethane (EDC)	3.87		0.00	62	150521	41.41	45.4		
1	tert-Amyl Methyl Ether	3.84		0.00	55	173409	89.33	97.9		
1	Trichloroethene (TCE)	4.29		0.00	95	111416	47.04	51.6		
1	1,2-Dichloropropane	4.52	-0.01	0.00	63	99053	41.51	45.5		
1	Dibromomethane	4.62		0.00	93	62942	41.74	45.7		
1	Methyl Methacrylate	4.60		0.00	69	167608	100.35	110		
1	1,4-Dioxane	4.61	-0.01	0.00	88	37265	1,208	1320		
1	Bromodichloromethane	4.75		0.00	83	126654	42.10	46.1		
1	2-Nitropropane	5.02		0.00	41	65143	104.20	114		
1	2-Chloroethyl Vinyl Ether	5.02		0.00	63	87931	59.61	65.3		
1	cis-1,3-Dichloropropene	5.13		0.00	75	128164	38.16	41.8		
1	4-Methyl-2-pentanone (MIBK)	5.26	-0.01	0.00	58	392298	428.08	469		
1	Toluene	5.36	-0.01	0.00	92	225224	41.85	45.9		
2	trans-1,3-Dichloropropene	5.65		0.00	75	153524	52.11	57.1		
2	Ethyl Methacrylate	5.67		0.00	69	264051	94.24	103		
2	1,1,2-Trichloroethane	5.81		0.00	83	81501	44.21	48.5		
2	Tetrachloroethene (PCE)	5.82		0.00	164	76033	43.55	47.7		

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D: Result from dilution

m: Manual integration performed

d: Compound manually deleted

NR: Analyte not reported from this analysis

*: Result fails acceptance criteria

#: Acceptance criteria not applicable

?: Insufficient information to determine acceptance

e: Result >= MRL, but MRL less than low point of ICAL

c: check for co-elution

Data File:	J:\MS24\DATA\052510\0525F013.D	Instrument:	MS24
Acqu Date:	05/25/2010 14:40	Quant Date:	05/25/2010 15:26
Run Type:	MS	Vial:	12
Lab ID:	KWG1004900-I -- K1005244-003MS	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2	2-Hexanone	6.02		0.00	57	149611	480.75	527		
2	1,3-Dichloropropane	5.97		0.00	76	164795	44.88	49.2		
2	Dibromochloromethane	6.13		0.00	129	95451	46.30	50.7		
2	1,2-Dibromoethane (EDB)	6.25		0.00	107	95897	47.62	52.2		
2	1-Chlorohexane	6.64		0.00	91	117661	46.49	51.0		
2	Chlorobenzene	6.68		0.00	112	246909	40.18	44.0		
2	Ethylbenzene	6.76		0.00	106	126782	42.37	46.4		
2	1,1,1,2-Tetrachloroethane	6.77		0.00	131	88617	43.71	47.9		
2	m,p-Xylenes	6.87		0.00	106	309984	87.91	96.3		
2	o-Xylene	7.27		0.00	106	148170	41.85	45.9		
2	Styrene	7.30		0.00	103	116134m	41.83	45.8		
2	Bromoform	7.51		0.00	173	68377	54.61	59.9		
2	Isopropylbenzene	7.62		0.00	105	382936	44.78	49.1		
2	cis-1,4-Dichloro-2-butene	7.80		0.00	89	35903	148.92	163		
3	1,1,2,2-Tetrachloroethane	8.03		0.00	83	105216	49.82	54.6		
3	trans-1,4-Dichloro-2-butene	8.10		0.00	53	90172	180.36	198		
3	Bromobenzene	7.96		0.00	156	104730	45.98	50.4		
3	n-Propylbenzene	8.04		0.00	91	448455	48.26	52.9		
3	1,2,3-Trichloropropane	8.07		0.00	110	51982	64.78	71.0		
3	2-Chlorotoluene	8.15		0.00	91	279905	48.05	52.7		
3	1,3,5-Trimethylbenzene	8.23		0.00	105	299447	45.86	50.3		
3	4-Chlorotoluene	8.27		0.00	91	280512	47.69	52.3		
3	tert-Butylbenzene	8.54		0.00	119	258293	45.16	49.5		
3	1,2,4-Trimethylbenzene	8.60		0.00	105	284264	42.57	46.7		
3	sec-Butylbenzene	8.76		0.00	105	345304	40.52	44.4		
3	4-Isopropyltoluene	8.91		0.00	119	285646	40.17	44.0		
3	1,3-Dichlorobenzene	8.90		0.00	146	180030	42.87	47.0		
3	1,4-Dichlorobenzene	9.00		0.00	146	183336	42.15	46.2		
3	n-Butylbenzene	9.31		0.00	91	239372	38.11	41.8		
3	1,2-Dichlorobenzene	9.36		0.00	146	170709	41.35	45.3		
3	1,2-Dibromo-3-chloropropane	10.14		0.00	155	26206	83.06	91.0		
3	1,2,4-Trichlorobenzene	10.86		0.00	180	92691	35.47	38.9		
3	Hexachlorobutadiene	10.96		0.00	225	33262	25.44	27.9		
3	Naphthalene	11.09		0.00	128	243693	40.55	44.4		
3	1,2,3-Trichlorobenzene	11.32		0.00	180	88832	36.50	40.0		
	4-Vinyl-1-cyclohexene				0	0		5.5	UJ	NR
	Benzyl Chloride				0	0		5.5	UJ	NR
	Hexachloroethane				0	0		1.1	UJ	NR
	2,2,4-Trimethylpentane				0	0		5.5	UJ	NR
	1,3-Butadiene				0	0		2.2	UJ	NR
	1,1,2-Trifluoroethane				0	0		11	UJ	NR
	n-Butyl Alcohol				0	0		270	U	NR

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D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS24\DATA\052510\0525F013.D	Instrument:	MS24
Acqu Date:	05/25/2010 14:40	Quant Date:	05/25/2010 15:26
Run Type:	MS	Vial:	12
Lab ID:	KWG1004900-1 -- K1005244-003MS	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds				Final Conc. Units:		ug/Kg Dry Weight		
Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2-Propanol			0	0		220	U	NR
Ethyl Alcohol			0	0		220	U	NR
2,2-Dichloro-1,1,1-trifluoroetha			0	0		5.5	UJ	NR
Cyclohexanone			0	0		11	UJ	NR
Methylcyclopentane			0	0		5.5	UJ	NR
n-Heptane			0	0		5.5	UJ	NR
3-Methylpentane			0	0		5.5	UJ	NR
2-Methylpentane			0	0		5.5	UJ	NR
Ethyl Acetate			0	0		22	UJ	NR

Prep Amount: 5.03 g Dilution: 1.0
 Prep Final Vol: 5.0 ml Unit Factor: 1
 Solids: 90.7 %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

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 F: Analyte detected above MDL, but below MRL
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 E: Analyte concentration above high point of ICAL
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*: Result fails acceptance criteria
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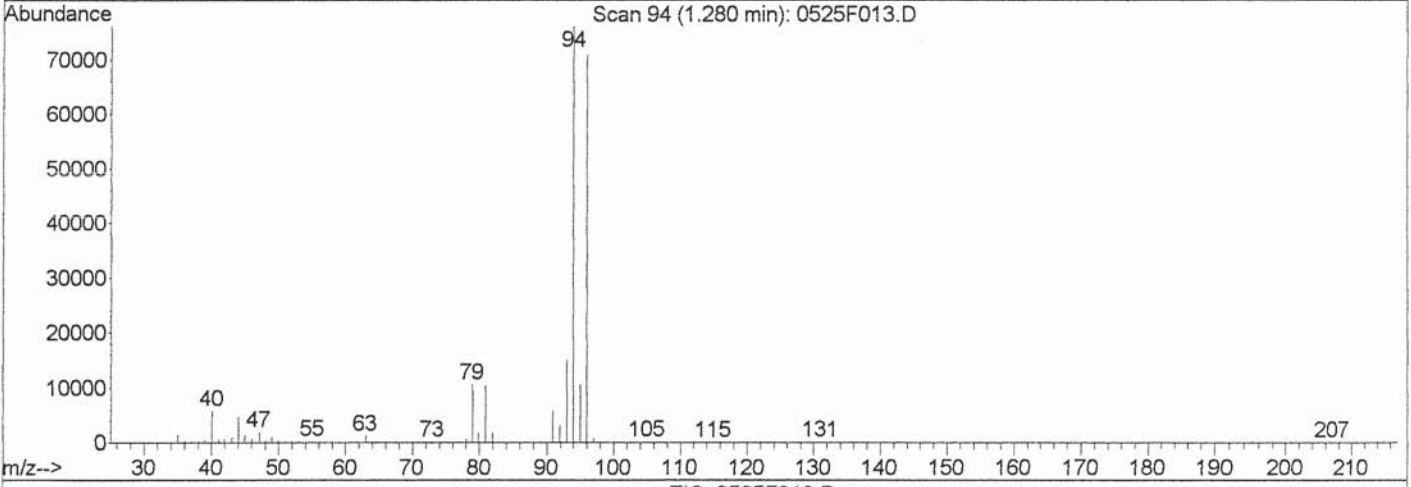
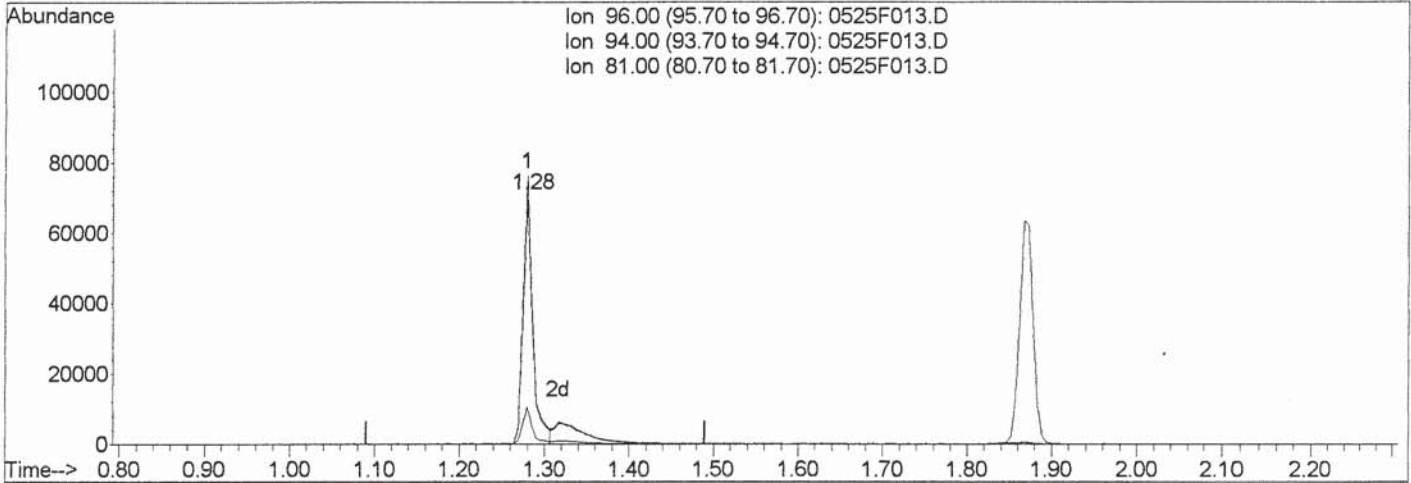
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F013.D
 Acq On : 25 May 2010 2:40 pm
 Sample : K5244-003MS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:26 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F013.D

(5) Bromomethane (T)

1.28min 22.59PPB

response 54864

Ion	Exp%	Act%
96.00	100	100
94.00	106.40	107.24
81.00	18.10	14.55
0.00	0.00	0.00

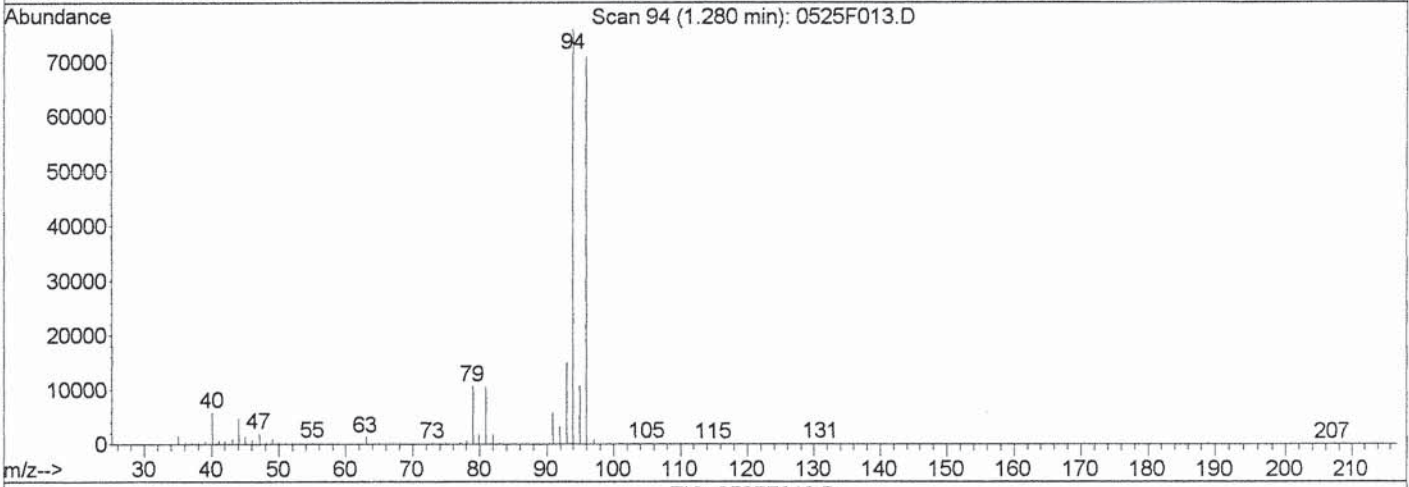
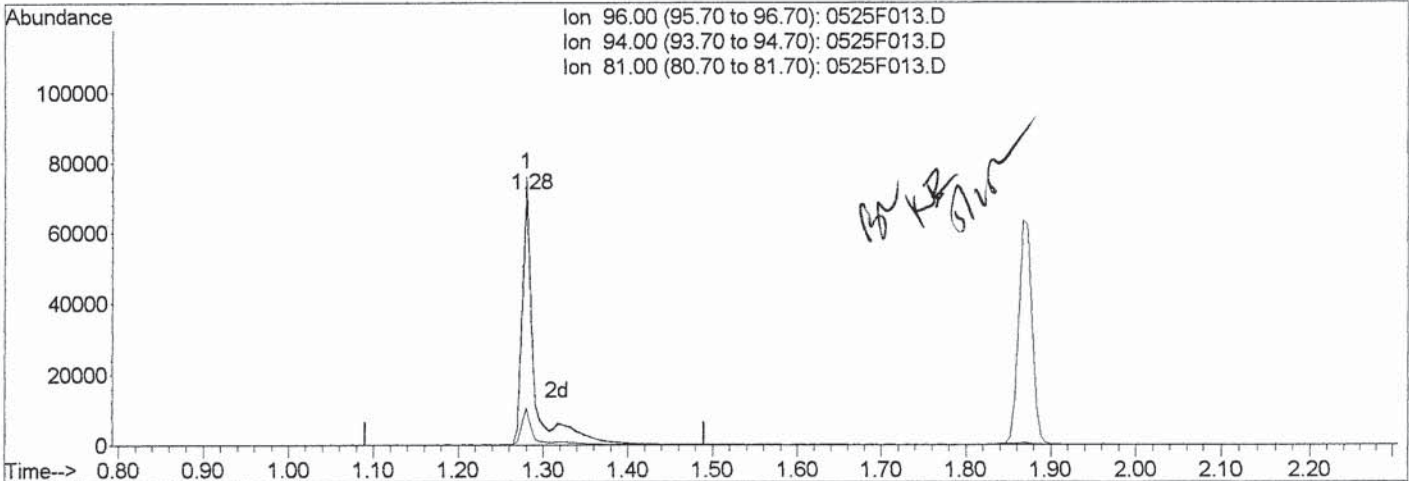
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F013.D
 Acq On : 25 May 2010 2:40 pm
 Sample : K5244-003MS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:26 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



(5) Bromomethane (T)

1.28min 29.07PPB m

response 70612

Ion	Exp%	Act%
96.00	100	100
94.00	106.40	107.24
81.00	18.10	14.78
0.00	0.00	0.00

Ann 5/25/10

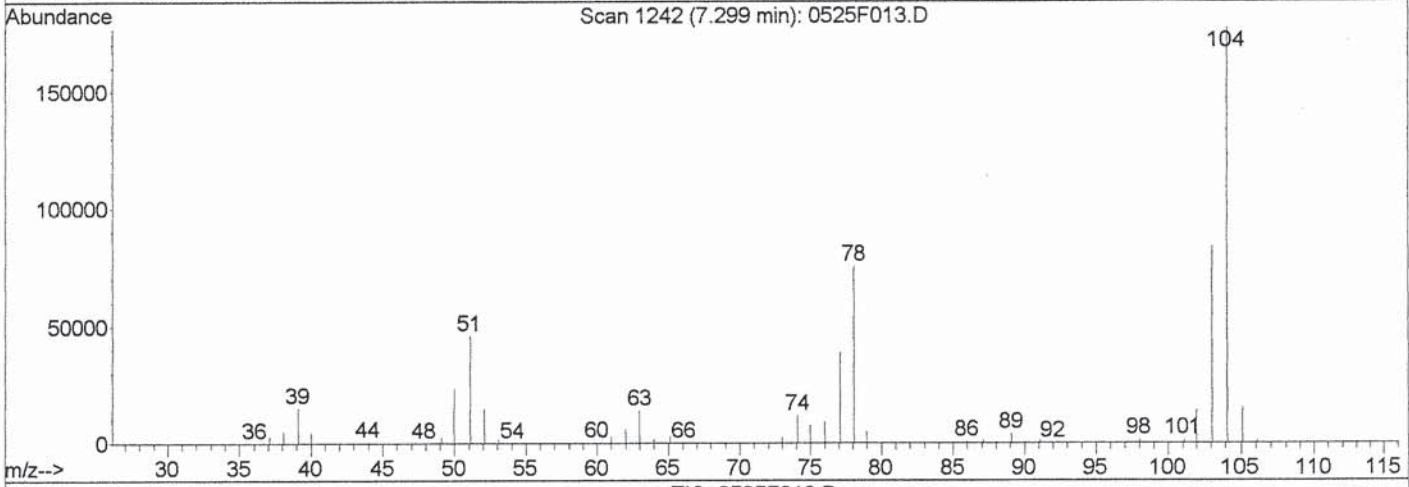
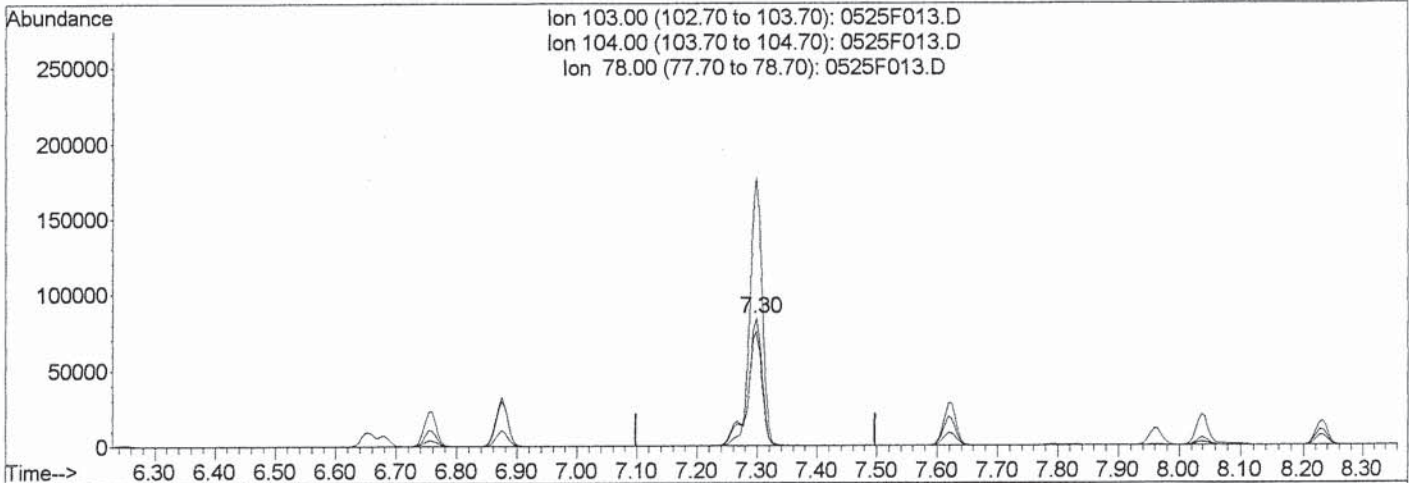
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F013.D
 Acq On : 25 May 2010 2:40 pm
 Sample : K5244-003MS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:26 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F013.D

(75) Styrene (T)

7.30min 49.48PPB

response 137379

Ion	Exp%	Act%
103.00	100	100
104.00	208.80	211.36
78.00	88.30	89.86
0.00	0.00	0.00

Quantitation Report (Qedit)

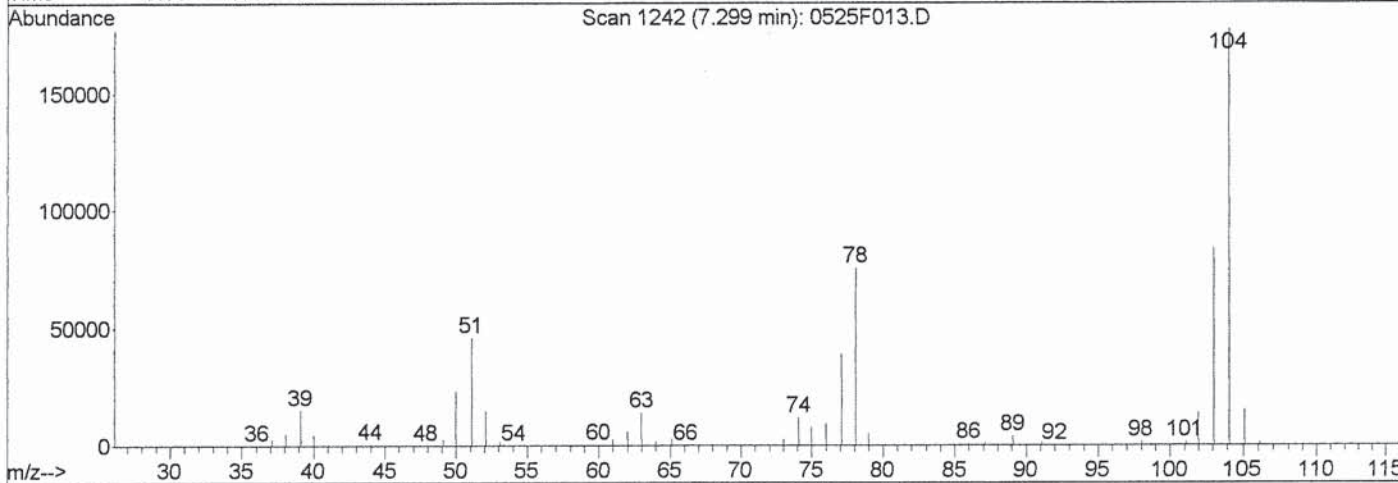
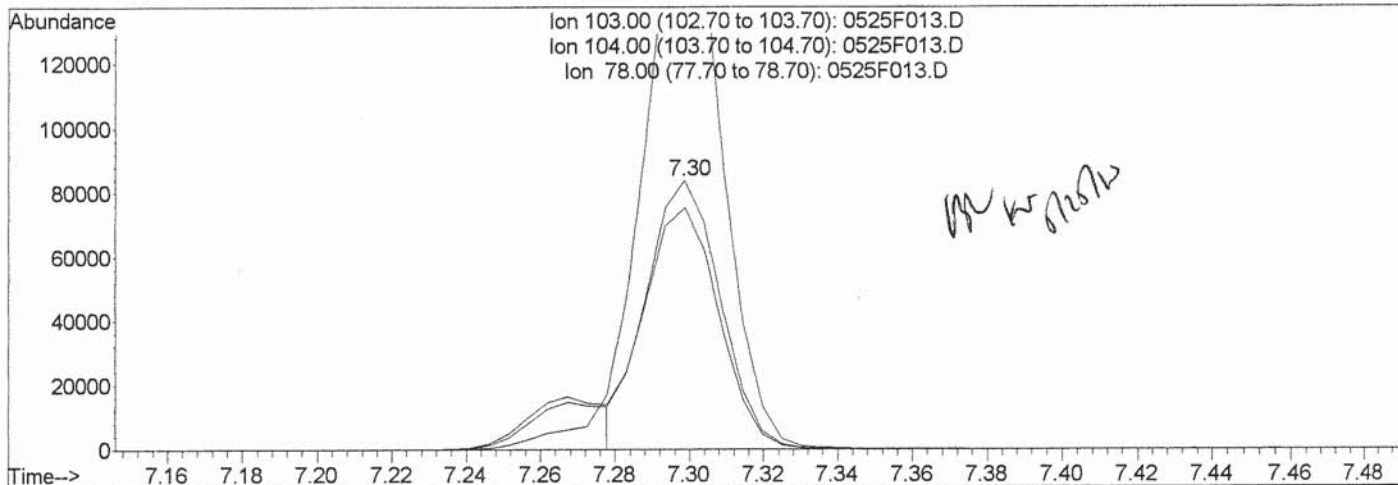
Data File : J:\MS24\DATA\052510\0525F013.D
Acq On : 25 May 2010 2:40 pm
Sample : K5244-003MS
Misc :

Vial: 12
Operator: KR
Inst : MS24
Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: May 25 15:26 2010

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
Title : VOA MS24 EPA Method 8260B
Last Update : Mon May 10 10:34:02 2010
Response via : Single Level Calibration



(75) Styrene (T)

7.30min 41.83PPB m

response 116134

Ion	Exp%	Act%
103.00	100	100
104.00	208.80	211.36
78.00	88.30	89.86
0.00	0.00	0.00

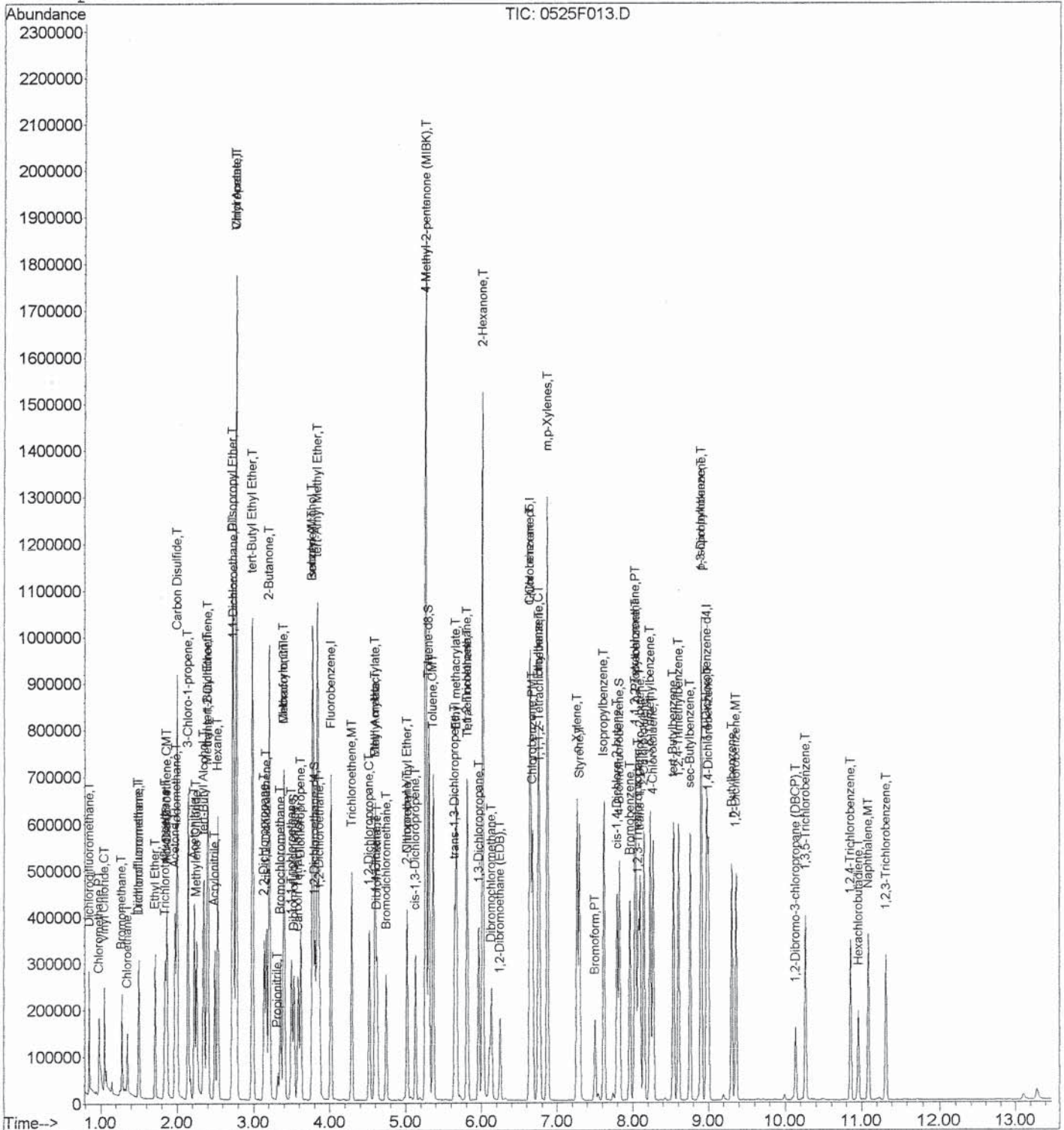
Line 5/25/10

Data File : J:\MS24\DATA\052510\0525F013.D
 Acq On : 25 May 2010 2:40 pm
 Sample : K5244-003MS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:26 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16DMS
Lab Code: KWG1004900-2
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	51.5		5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
Chloromethane	52.7		5.6	0.51	1	05/25/10	05/25/10	KWG1004900	
Vinyl Chloride	55.8		5.6	0.35	1	05/25/10	05/25/10	KWG1004900	
Bromomethane	34.2		5.6	0.69	1	05/25/10	05/25/10	KWG1004900	
Chloroethane	48.2		5.6	0.35	1	05/25/10	05/25/10	KWG1004900	
Trichlorofluoromethane	41.5		5.6	0.24	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloroethene	49.5		5.6	0.26	1	05/25/10	05/25/10	KWG1004900	
Acetone	331		23	4.3	1	05/25/10	05/25/10	KWG1004900	
Carbon Disulfide	108		5.6	0.29	1	05/25/10	05/25/10	KWG1004900	
Methylene Chloride	47.9		12	0.48	1	05/25/10	05/25/10	KWG1004900	
trans-1,2-Dichloroethene	49.6		5.6	0.39	1	05/25/10	05/25/10	KWG1004900	*
1,1-Dichloroethane	50.0		5.6	0.23	1	05/25/10	05/25/10	KWG1004900	
2,2-Dichloropropane	53.0		5.6	0.40	1	05/25/10	05/25/10	KWG1004900	
cis-1,2-Dichloroethene	47.2		5.6	0.26	1	05/25/10	05/25/10	KWG1004900	
2-Butanone (MEK)	428		23	1.1	1	05/25/10	05/25/10	KWG1004900	
Bromochloromethane	49.7		5.6	0.16	1	05/25/10	05/25/10	KWG1004900	
Chloroform	49.8		5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,1,1-Trichloroethane (TCA)	52.4		5.6	0.39	1	05/25/10	05/25/10	KWG1004900	
Carbon Tetrachloride	51.3		5.6	0.40	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloropropene	50.0		5.6	0.30	1	05/25/10	05/25/10	KWG1004900	
Benzene	49.3		5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloroethane (EDC)	50.1		5.6	0.17	1	05/25/10	05/25/10	KWG1004900	
Trichloroethene (TCE)	52.9		5.6	0.30	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloropropane	51.3		5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
Dibromomethane	51.7		5.6	0.31	1	05/25/10	05/25/10	KWG1004900	
Bromodichloromethane	52.1		5.6	0.17	1	05/25/10	05/25/10	KWG1004900	
cis-1,3-Dichloropropene	46.8		5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
4-Methyl-2-pentanone (MIBK)	507		23	0.82	1	05/25/10	05/25/10	KWG1004900	
Toluene	50.7		5.6	0.20	1	05/25/10	05/25/10	KWG1004900	
trans-1,3-Dichloropropene	60.8		5.6	0.38	1	05/25/10	05/25/10	KWG1004900	
1,1,2-Trichloroethane	51.7		5.6	0.26	1	05/25/10	05/25/10	KWG1004900	
Tetrachloroethene (PCE)	48.9		5.6	0.29	1	05/25/10	05/25/10	KWG1004900	
2-Hexanone	532		23	1.1	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichloropropane	52.4		5.6	0.23	1	05/25/10	05/25/10	KWG1004900	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16DMS
Lab Code: KWG1004900-2
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	54.2		5.6	0.21	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromoethane (EDB)	55.1		23	0.30	1	05/25/10	05/25/10	KWG1004900	
Chlorobenzene	45.7		5.6	0.28	1	05/25/10	05/25/10	KWG1004900	
Ethylbenzene	48.5		5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,1,1,2-Tetrachloroethane	50.4		5.6	0.28	1	05/25/10	05/25/10	KWG1004900	
m,p-Xylenes	99.5		5.6	0.41	1	05/25/10	05/25/10	KWG1004900	
o-Xylene	46.8		5.6	0.15	1	05/25/10	05/25/10	KWG1004900	
Styrene	46.8		5.6	0.15	1	05/25/10	05/25/10	KWG1004900	
Bromoform	62.3		5.6	0.34	1	05/25/10	05/25/10	KWG1004900	
Isopropylbenzene	49.8		23	0.15	1	05/25/10	05/25/10	KWG1004900	
1,1,2,2-Tetrachloroethane	62.4		5.6	0.40	1	05/25/10	05/25/10	KWG1004900	
Bromobenzene	49.5		5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
n-Propylbenzene	51.6		23	0.40	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichloropropane	68.7		5.6	0.42	1	05/25/10	05/25/10	KWG1004900	
2-Chlorotoluene	51.6		23	0.32	1	05/25/10	05/25/10	KWG1004900	
1,3,5-Trimethylbenzene	50.1		23	0.40	1	05/25/10	05/25/10	KWG1004900	
4-Chlorotoluene	50.5		23	0.29	1	05/25/10	05/25/10	KWG1004900	
tert-Butylbenzene	49.2		23	0.37	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trimethylbenzene	47.2		23	0.31	1	05/25/10	05/25/10	KWG1004900	
sec-Butylbenzene	46.1		23	0.35	1	05/25/10	05/25/10	KWG1004900	
4-Isopropyltoluene	45.8		23	0.31	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichlorobenzene	47.4		5.6	0.27	1	05/25/10	05/25/10	KWG1004900	
1,4-Dichlorobenzene	46.3		5.6	0.28	1	05/25/10	05/25/10	KWG1004900	
n-Butylbenzene	44.5		23	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichlorobenzene	45.7		5.6	0.25	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromo-3-chloropropane	90.3		23	0.73	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trichlorobenzene	40.2		23	0.26	1	05/25/10	05/25/10	KWG1004900	
Hexachlorobutadiene	34.5		23	0.24	1	05/25/10	05/25/10	KWG1004900	
Naphthalene	42.8		23	0.40	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichlorobenzene	40.3		23	0.24	1	05/25/10	05/25/10	KWG1004900	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: 05/19/2010
Date Received: 05/21/2010

Volatile Organic Compounds

Sample Name: D-4-16DMS
Lab Code: KWG1004900-2

Units: ug/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	83-128	05/25/10	Acceptable
Toluene-d8	114	90-125	05/25/10	Acceptable
4-Bromofluorobenzene	107	77-124	05/25/10	Acceptable

Comments: _____

Quantitation Report

Bottle ID:	Tier:	Matrix:	MISC. SOLID
Prod Code: 8260B VOC_FP	Collect Date:	Receive Date:	06/10/2010

Analysis Lot: KWG1004880	Prep Lot: KWG1004900	Report Group:
Analysis Method: 8260B	Prep Method: EPA 5030A	
Prep Ref: 911429	Prep Date: 05/25/2010	

Quant Method: J:\MS24\METHODS\042110\MS24SO	Calibration ID: CAL9404
Title:	
Tune Ref: J:\MS24\DATA\052510\0525F002.D	Method ID: MJ120
MB Ref: J:\MS24\DATA\052510\0525F009.D	Quant based on Method

Data File: J:\MS24\DATA\052510\0525F014.D	Instrument: MS24
Acqu Date: 05/25/2010 15:01	Quant Date: 05/25/2010 15:27
Run Type: DMS	Vial: 13
Lab ID: KWG1004900-2 -- K1005244-003DMS	Dilution: 1.0
	Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	4.02	0.00	96	367092	50.00	OK
2	Chlorobenzene-d5	6.65	0.00	82	163841	50.00	OK
3	1,4-Dichlorobenzene-d4	8.98	0.00	152	139592	50.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	3.54	0.00	0.00	113	93825	51.14	102	83-128	OK
1	1,2-Dichloroethane-d4	3.81	0.00	0.00	65	135333	51.10	102	64-142	OK
1	Toluene-d8	5.31	0.00	0.00	98	367458	57.10	114	90-125	OK
2	4-Bromofluorobenzene	7.83	0.00	0.00	95	134383	53.44	107	77-124	OK

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Dichlorodifluoromethane	0.86		0.00	85	105865	46.71	51.5		
1	Chloromethane	0.99		0.00	50	137235	47.77	52.7		
1	Vinyl Chloride	1.06		0.00	62	128936	50.59	55.8		
1	Bromomethane	1.29	-0.01	0.00	96	65717m	31.00	34.2		
1	Chloroethane	1.36	-0.01	0.00	64	72618m	43.71	48.2		
1	Dichlorofluoromethane (CFC 21)	1.52		0.00	67	549	0.1300	0.143	J	
1	Trichlorofluoromethane	1.51		0.00	101	132449	37.68	41.5		
1	Diethyl Ether	1.73		0.00	59	96212	45.77	50.5		
1	Acrolein	1.87		0.00	56	28197	69.46	76.6	J	
1	Trichlorotrifluoroethane	1.86		0.00	151	61620	45.87	50.6		
1	1,1-Dichloroethene	1.88		0.00	96	69162	44.87	49.5		
1	Acetone	1.98		0.00	43	256495	300.09	331		
1	Iodomethane (Methyl Iodide)	2.00		0.00	142	175694	83.45	92.0		
1	Carbon Disulfide	2.01		0.00	76	594146	98.09	108		

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File: J:\MS24\DATA\052510\0525F014.D
 Acqu Date: 05/25/2010 15:01 Quant Date: 05/25/2010 15:27
 Run Type: DMS
 Lab ID: KWG1004900-2 -- K1005244-003DMS

Instrument: MS24
 Vial: 13
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	3-Chloro-1-propene	2.16		0.00	76	82277	74.62	82.3		
1	Acetonitrile	2.23		0.00	40	152807	910.41	1000		
1	Methylene Chloride	2.27		0.00	84	96110	43.49	47.9		
1	tert-Butyl Alcohol	2.35		0.00	59	326546	1,065	1170		
1	Acrylonitrile	2.50		0.00	53	137008	160.38	177		
1	Methyl tert-Butyl Ether	2.40		0.00	73	340660	52.73	58.1		
1	trans-1,2-Dichloroethene	2.42		0.00	96	86691	44.96	49.6		
1	n-Hexane	2.54		0.00	57	189997	71.90	79.3		
1	Diisopropyl Ether	2.74		0.00	45	669491	92.18	102		
1	1,1-Dichloroethane	2.75		0.00	63	172414	45.33	50.0		
1	Vinyl Acetate	2.78		0.00	86	90374	255.35	282		
1	Chloroprene	2.78		0.00	53	241038	93.17	103		
1	tert-Butyl Ethyl Ether	2.99		0.00	59	650569	98.66	109		
1	2,2-Dichloropropane	3.15		0.00	77	125283	48.06	53.0		
1	cis-1,2-Dichloroethene	3.18		0.00	96	91625	42.83	47.2		
1	2-Butanone (MEK)	3.21		0.00	72	106632	387.85	428		
1	Propionitrile	3.32		0.00	54	33468	98.30	108		
1	Methacrylonitrile	3.40		0.00	67	95221	105.32	116		
1	Bromochloromethane	3.36		0.00	128	47317	45.12	49.7		
1	Chloroform	3.41		0.00	83	162046	45.15	49.8		
1	1,1,1-Trichloroethane (TCA)	3.51		0.00	97	130329	47.56	52.4		
1	Carbon Tetrachloride	3.59		0.00	117	109580	46.50	51.3		
1	1,1-Dichloropropene	3.63		0.00	75	111676	45.35	50.0		
1	Isobutanol	3.78		0.00	43	187426	1,669	1840		
1	Benzene	3.79		0.00	78	349433	44.68	49.3		
1	1,2-Dichloroethane (EDC)	3.87		0.00	62	144077	45.41	50.1		
1	tert-Amyl Methyl Ether	3.85	0.01	0.00	55	164336	96.98	107		
1	Trichloroethene (TCE)	4.29		0.00	95	99187	47.98	52.9		
1	1,2-Dichloropropane	4.53		0.00	63	96892	46.51	51.3		
1	Dibromomethane	4.62		0.00	93	61781	46.93	51.7		
1	Methyl Methacrylate	4.60		0.00	69	160701	110.22	122		
1	1,4-Dioxane	4.62		0.00	88	35089	1,303	1440		
1	Bromodichloromethane	4.75		0.00	83	124125	47.26	52.1		
1	2-Nitropropane	5.02		0.00	41	61458	112.62	124		
1	2-Chloroethyl Vinyl Ether	5.02		0.00	63	85096	66.08	72.9		
1	cis-1,3-Dichloropropene	5.13		0.00	75	124553	42.49	46.8		
1	4-Methyl-2-pentanone (MIBK)	5.27		0.00	58	368189	460.26	507		
1	Toluene	5.37		0.00	92	215866	45.95	50.7		
2	trans-1,3-Dichloropropene	5.65		0.00	75	149518	55.14	60.8		
2	Ethyl Methacrylate	5.67		0.00	69	258051	100.04	110		
2	1,1,2-Trichloroethane	5.81		0.00	83	79601	46.90	51.7		
2	Tetrachloroethene (PCE)	5.82		0.00	164	71278	44.35	48.9		

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS24\DATA\052510\0525F014.D	Instrument:	MS24
Acqu Date:	05/25/2010 15:01	Quant Date:	05/25/2010 15:27
Run Type:	DMS	Vial:	13
Lab ID:	KWG1004900-2 -- K1005244-003DMS	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2	2-Hexanone	6.02		0.00	57	138222	482.48	532		
2	1,3-Dichloropropane	5.97		0.00	76	160506	47.49	52.4		
2	Dibromochloromethane	6.13		0.00	129	93346	49.19	54.2		
2	1,2-Dibromoethane (EDB)	6.25		0.00	107	92687	50.00	55.1		
2	1-Chlorohexane	6.64		0.00	91	109319	46.93	51.7		
2	Chlorobenzene	6.68		0.00	112	234345	41.43	45.7		
2	Ethylbenzene	6.76		0.00	106	121240	44.01	48.5		
2	1,1,1,2-Tetrachloroethane	6.77		0.00	131	85278	45.69	50.4		
2	m,p-Xylenes	6.87		0.00	106	293018	90.27	99.5		
2	o-Xylene	7.27		0.00	106	138371	42.46	46.8		
2	Styrene	7.30		0.00	103	108579m	42.49	46.8		
2	Bromoform	7.51		0.00	173	65132	56.50	62.3		
2	Isopropylbenzene	7.62		0.00	105	355229	45.13	49.8		
2	cis-1,4-Dichloro-2-butene	7.80		0.00	89	31298	141.03	155		
3	1,1,2,2-Tetrachloroethane	8.03		0.00	83	115054	56.61	62.4		
3	trans-1,4-Dichloro-2-butene	8.10		0.00	53	83261	173.05	191		
3	Bromobenzene	7.96		0.00	156	98504	44.94	49.5		
3	n-Propylbenzene	8.04		0.00	91	418498	46.80	51.6		
3	1,2,3-Trichloropropane	8.07		0.00	110	48145	62.34	68.7		
3	2-Chlorotoluene	8.15		0.00	91	262507	46.82	51.6		
3	1,3,5-Trimethylbenzene	8.23		0.00	105	285321	45.41	50.1		
3	4-Chlorotoluene	8.27		0.00	91	259197	45.79	50.5		
3	tert-Butylbenzene	8.54		0.00	119	245772	44.65	49.2		
3	1,2,4-Trimethylbenzene	8.60		0.00	105	274937	42.79	47.2		
3	sec-Butylbenzene	8.76		0.00	105	343178	41.84	46.1		
3	4-Isopropyltoluene	8.91		0.00	119	284224	41.53	45.8		
3	1,3-Dichlorobenzene	8.90		0.00	146	173595	42.95	47.4		
3	1,4-Dichlorobenzene	9.00		0.00	146	175633	41.96	46.3		
3	n-Butylbenzene	9.31		0.00	91	244049	40.38	44.5		
3	1,2-Dichlorobenzene	9.36		0.00	146	164707	41.46	45.7		
3	1,2-Dibromo-3-chloropropane	10.14		0.00	155	24863	81.88	90.3		
3	1,2,4-Trichlorobenzene	10.85	-0.01	0.00	180	91633	36.44	40.2		
3	Hexachlorobutadiene	10.96		0.00	225	39384	31.30	34.5		
3	Naphthalene	11.09		0.00	128	224567	38.83	42.8		
3	1,2,3-Trichlorobenzene	11.32		0.00	180	85690	36.59	40.3		
	4-Vinyl-1-cyclohexene				0	0		5.5	UJ	NR
	Benzyl Chloride				0	0		5.5	UJ	NR
	Hexachloroethane				0	0		1.1	UJ	NR
	2,2,4-Trimethylpentane				0	0		5.5	UJ	NR
	1,3-Butadiene				0	0		2.2	UJ	NR
	1,1,2-Trifluoroethane				0	0		11	UJ	NR
	n-Butyl Alcohol				0	0		280	U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS24\DATA\052510\0525F014.D	Instrument:	MS24
Acqu Date:	05/25/2010 15:01	Quant Date:	05/25/2010 15:27
Run Type:	DMS	Vial:	13
Lab ID:	KWG1004900-2 -- K1005244-003DMS	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2-Propanol			0	0		220	U	NR
Ethyl Alcohol			0	0		220	U	NR
2,2-Dichloro-1,1,1-trifluoroetha			0	0		5.5	UJ	NR
Cyclohexanone			0	0		11	UJ	NR
Methylcyclopentane			0	0		5.5	UJ	NR
n-Heptane			0	0		5.5	UJ	NR
3-Methylpentane			0	0		5.5	UJ	NR
2-Methylpentane			0	0		5.5	UJ	NR
Ethyl Acetate			0	0		22	UJ	NR

Prep Amount: 5.00 g **Dilution:** 1.0
Prep Final Vol: 5.0 ml **Unit Factor:** 1
Solids: 90.7 %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

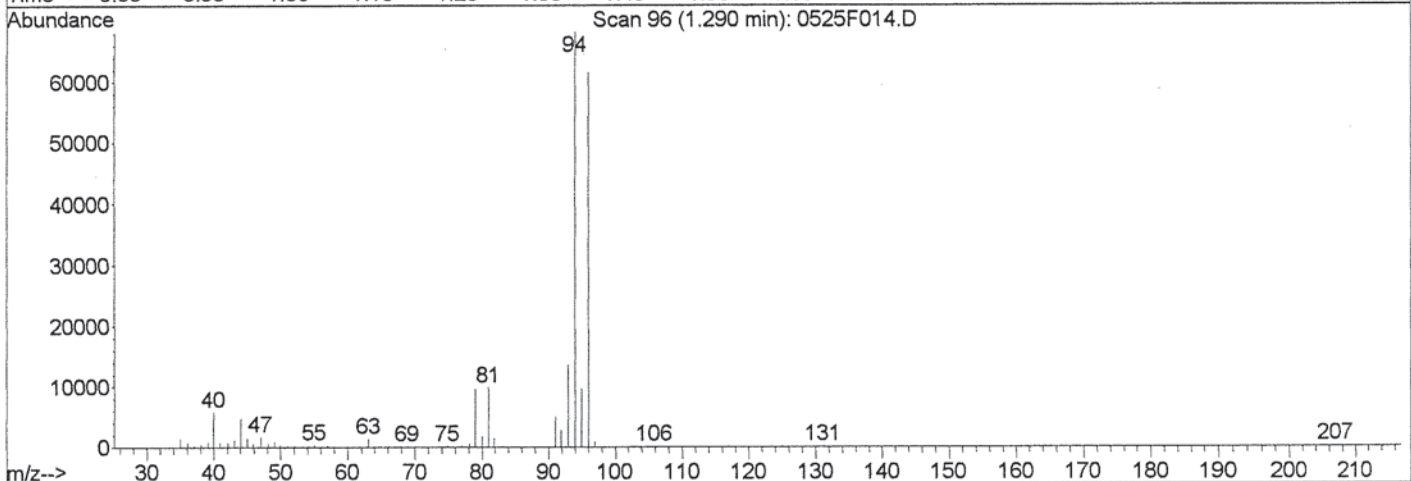
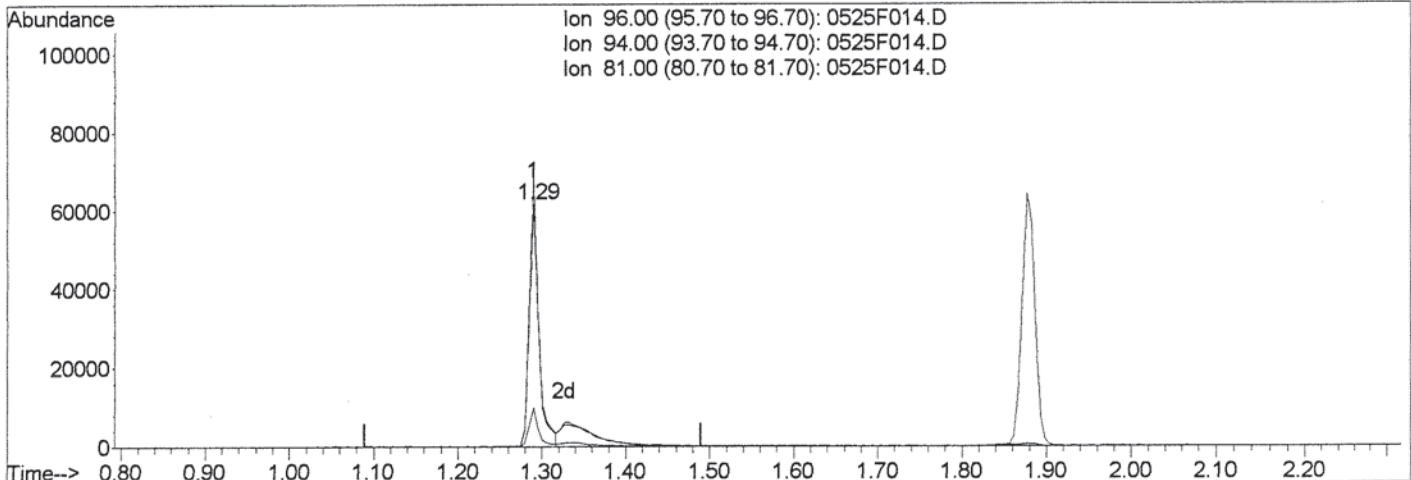
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F014.D
 Acq On : 25 May 2010 3:01 pm
 Sample : K5244-003DMS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:27 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F014.D

(5) Bromomethane (T)

1.29min 22.86PPB

response 48469

Ion	Exp%	Act%
96.00	100	100
94.00	106.40	110.52
81.00	18.10	15.76
0.00	0.00	0.00

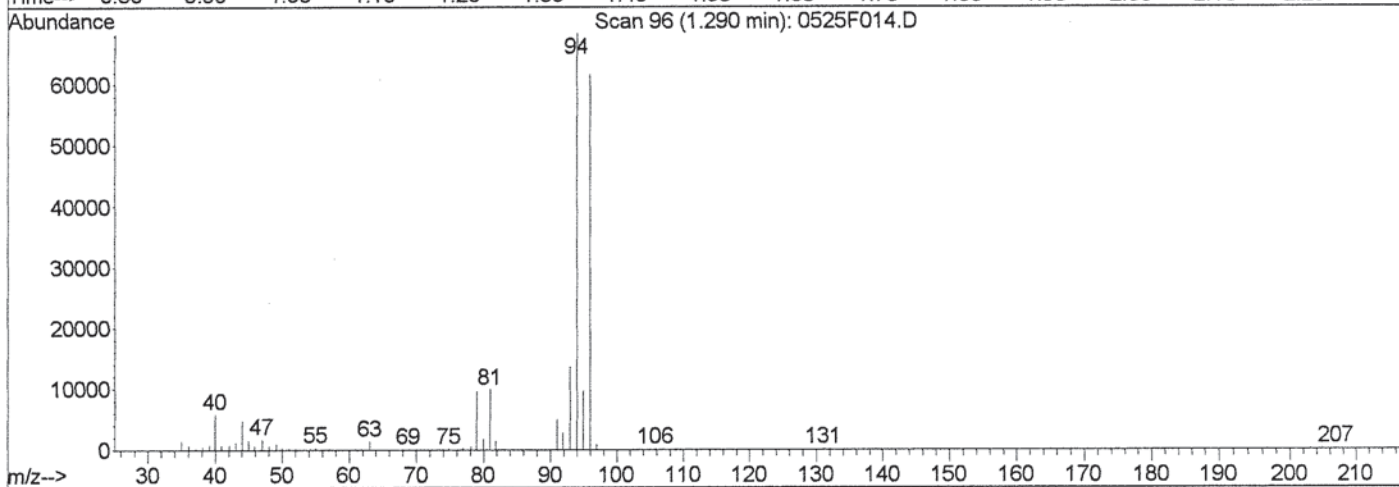
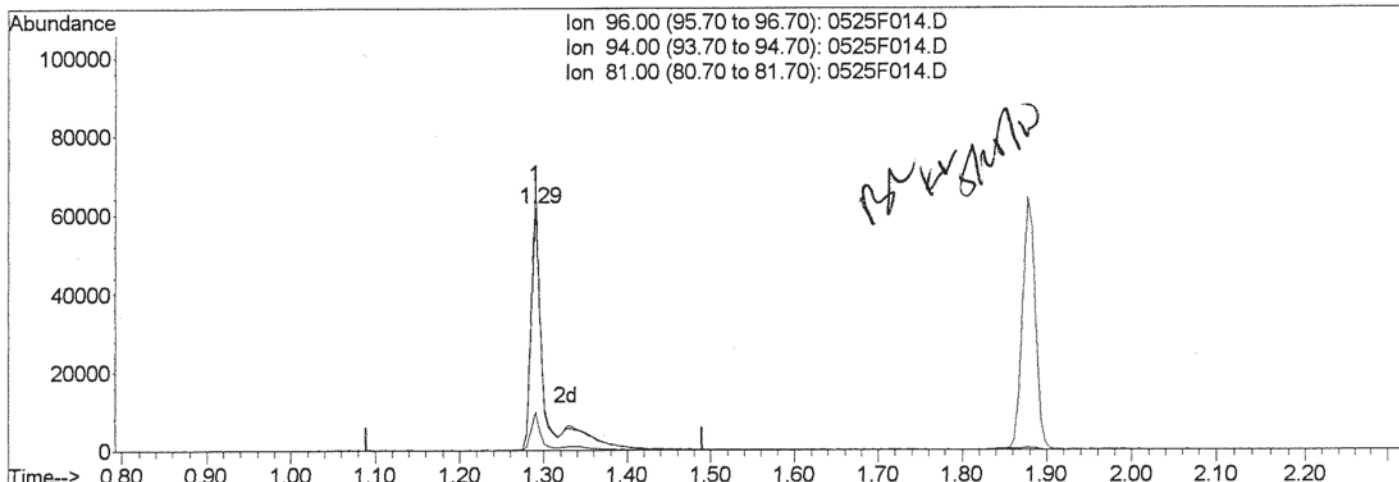
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F014.D
 Acq On : 25 May 2010 3:01 pm
 Sample : K5244-003DMS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:27 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



(5) Bromomethane (T)

1.29min 31.00PPB m

response 65717

Ion	Exp%	Act%
96.00	100	100
94.00	106.40	110.78
81.00	18.10	15.95
0.00	0.00	0.00

Conc 5/25/10

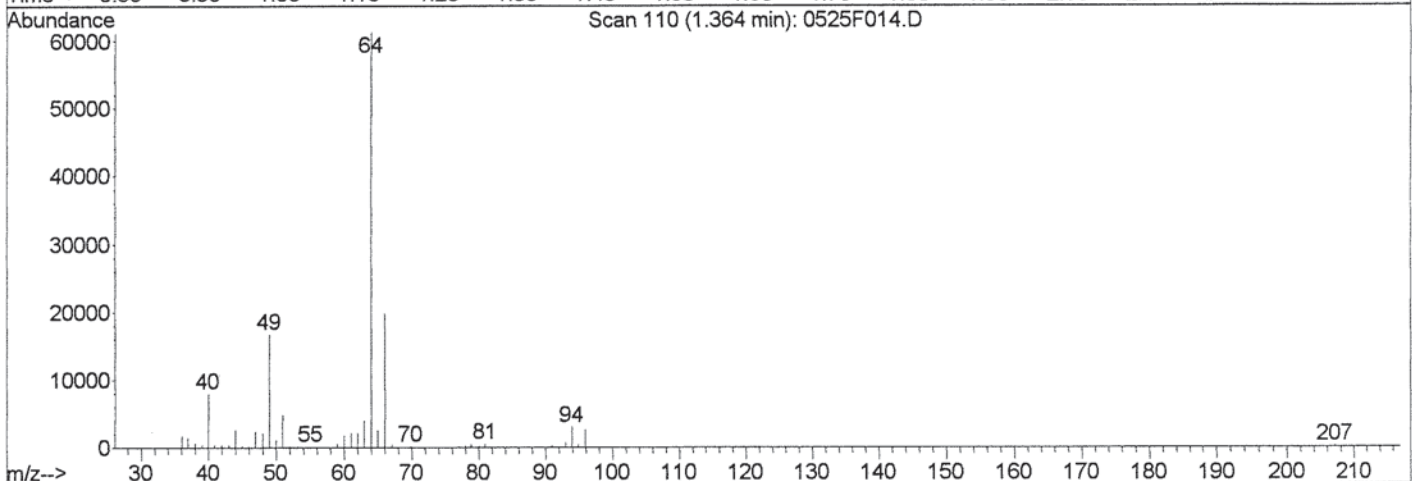
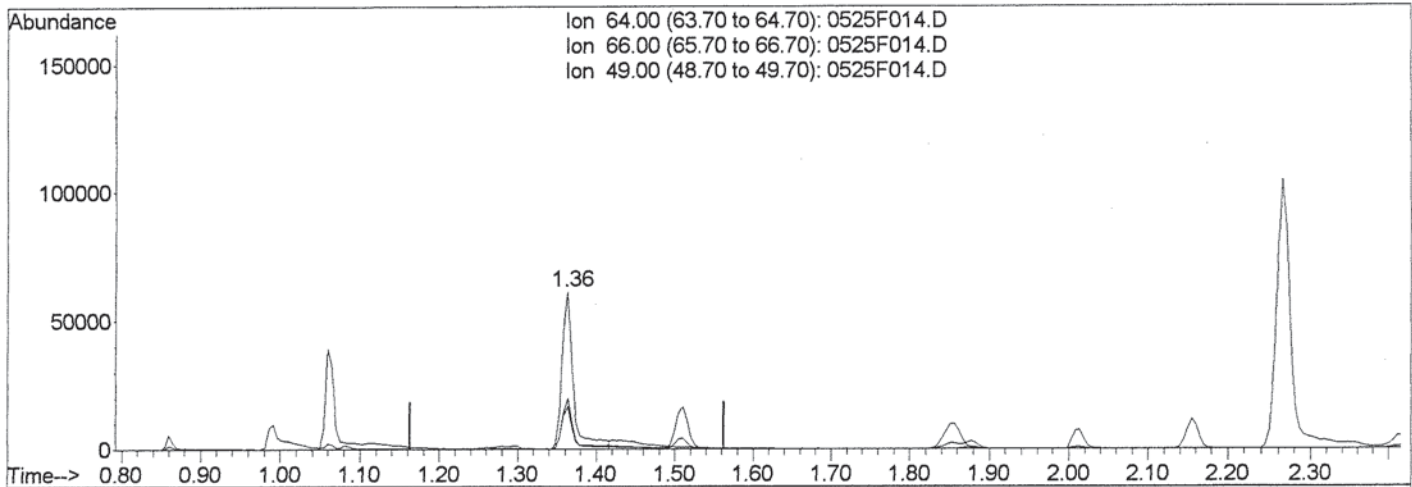
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F014.D
 Acq On : 25 May 2010 3:01 pm
 Sample : K5244-003DMS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:27 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F014.D

(6) Chloroethane (T)

1.36min 37.90PPB

response 62961

Ion	Exp%	Act%
64.00	100	100
66.00	32.10	32.03
49.00	27.50	27.23
0.00	0.00	0.00

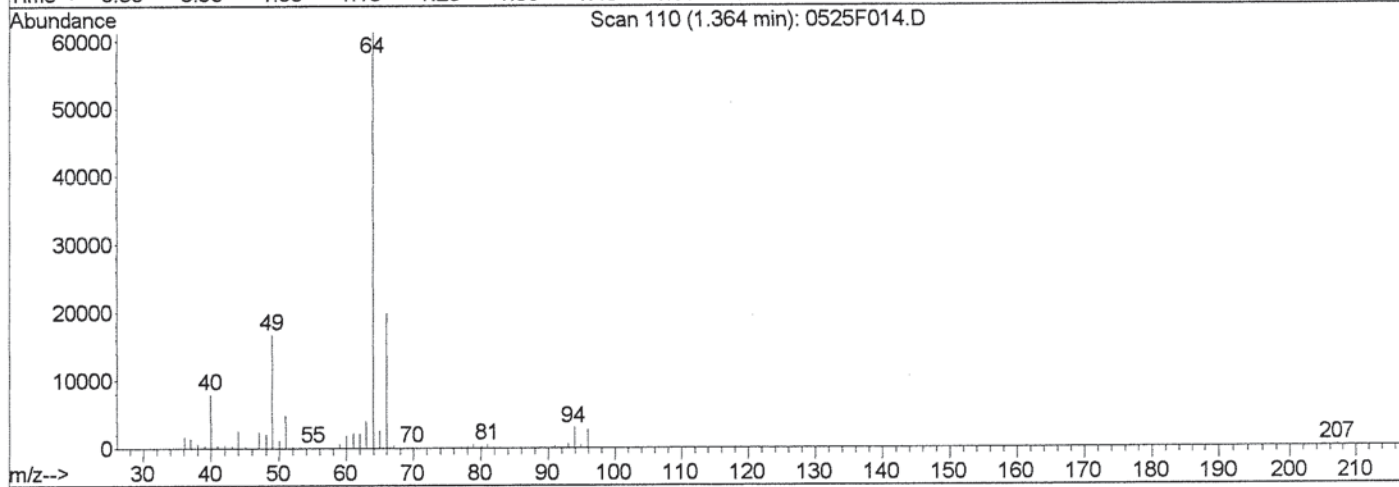
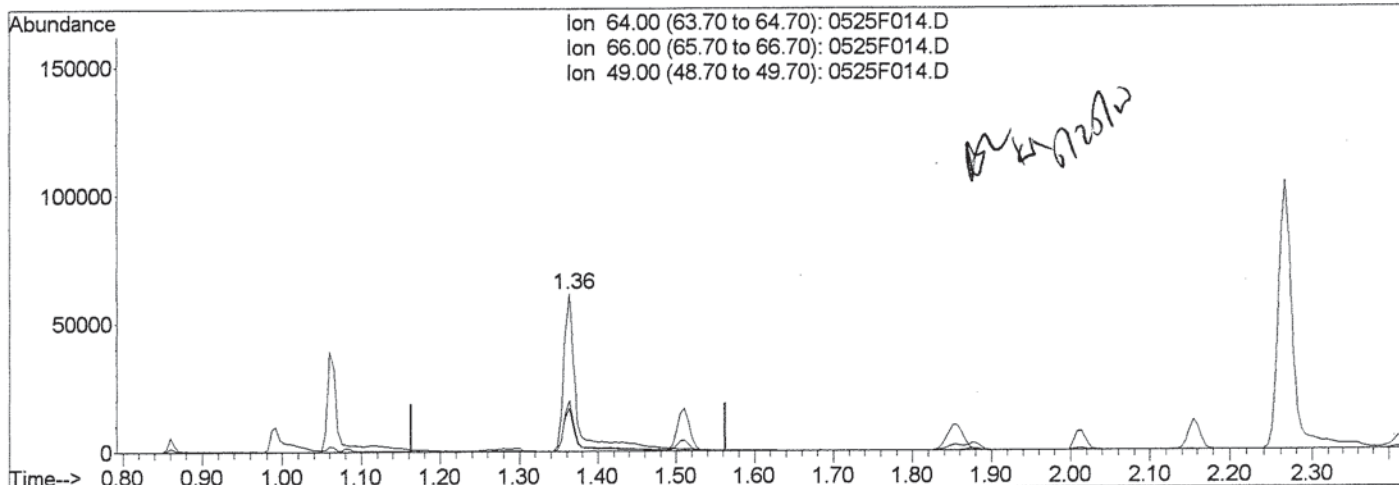
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F014.D
 Acq On : 25 May 2010 3:01 pm
 Sample : K5244-003DMS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:27 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



(6) Chloroethane (T)

1.36min 43.71PPB m

response 72618

Ion	Exp%	Act%
64.00	100	100
66.00	32.10	32.28
49.00	27.50	27.23
0.00	0.00	0.00

Can 5/25/10

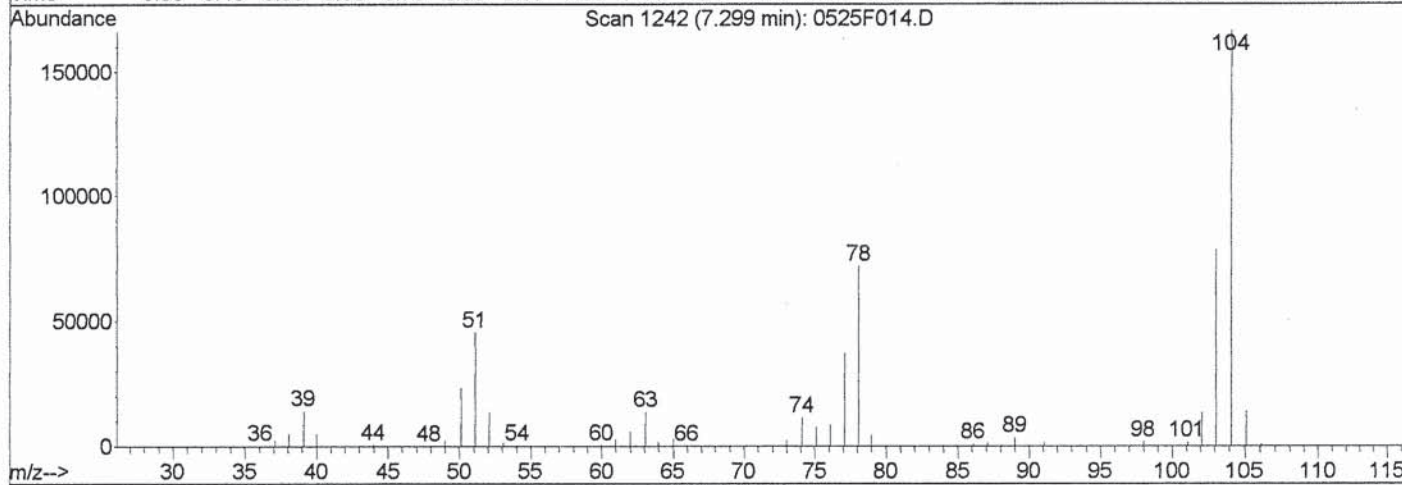
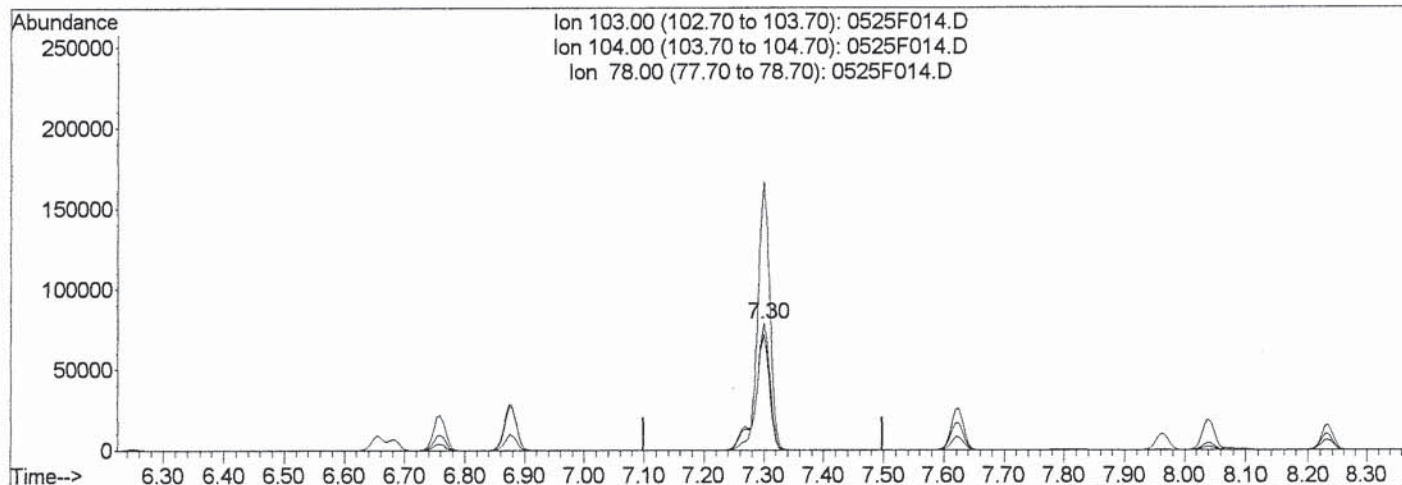
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F014.D
Acq On : 25 May 2010 3:01 pm
Sample : K5244-003DMS
Misc :
MS Integration Params: rteint.p
Quant Time: May 25 15:27 2010

Vial: 13
Operator: KR
Inst : MS24
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
Title : VOA MS24 EPA Method 8260B
Last Update : Mon May 10 10:34:02 2010
Response via : Single Level Calibration



TIC: 0525F014.D

(75) Styrene (T)

7.30min 50.12PPB

response 128079

Ion	Exp%	Act%
103.00	100	100
104.00	208.80	211.90
78.00	88.30	91.31
0.00	0.00	0.00

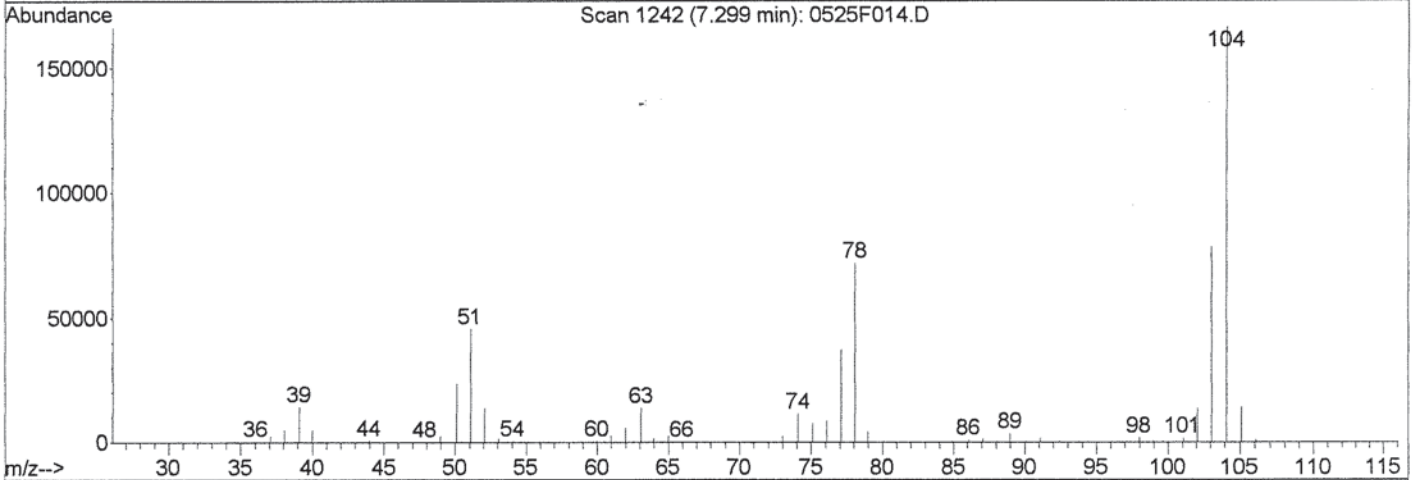
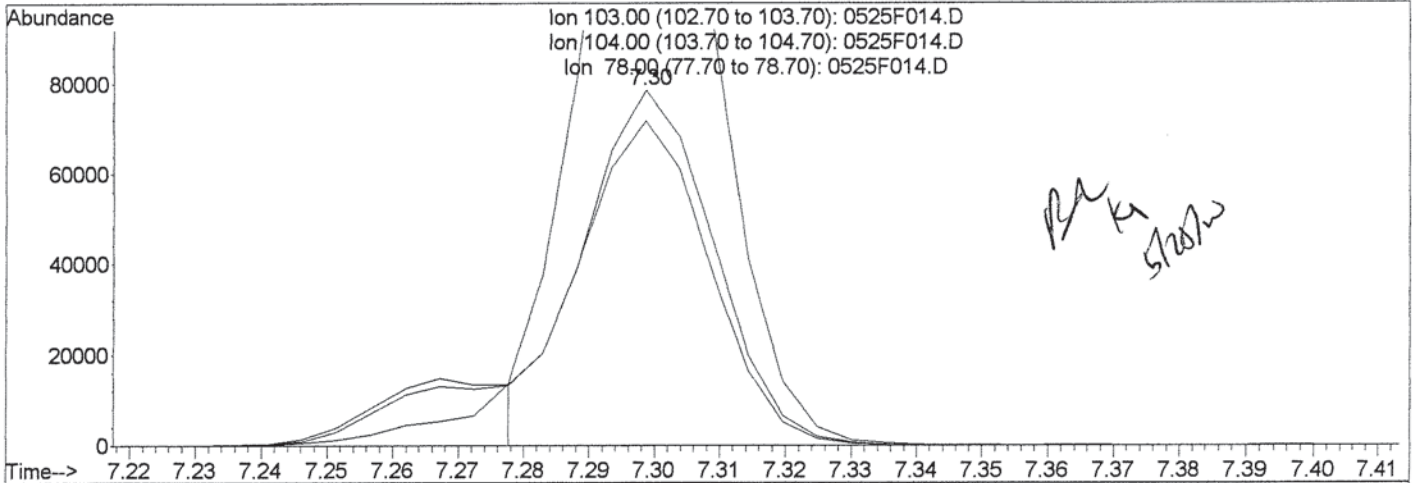
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F014.D
 Acq On : 25 May 2010 3:01 pm
 Sample : K5244-003DMS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:27 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



(75) Styrene (T)
 7.30min 42.49PPB m
 response 108579

Ion	Exp%	Act%
103.00	100	100
104.00	208.80	211.90
78.00	88.30	91.31
0.00	0.00	0.00

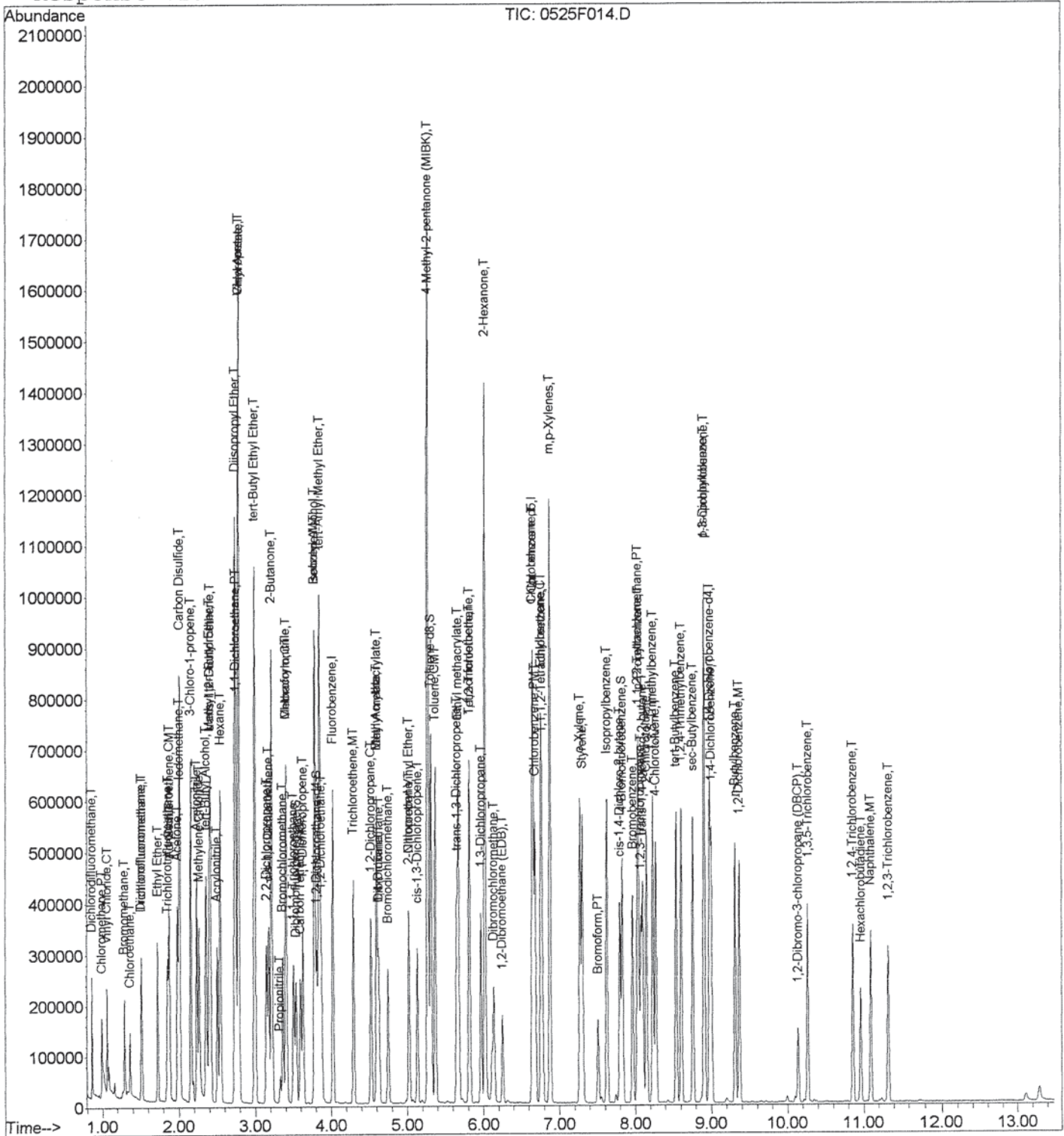
CR 5/25/10

Data File : J:\MS24\DATA\052510\0525F014.D
 Acq On : 25 May 2010 3:01 pm
 Sample : K5244-003DMS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 15:27 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Control Sample
Lab Code: KWG1004900-3
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	36.3		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
Chloromethane	39.1		5.0	0.46	1	05/25/10	05/25/10	KWG1004900	
Vinyl Chloride	40.0		5.0	0.31	1	05/25/10	05/25/10	KWG1004900	
Bromomethane	26.7		5.0	0.62	1	05/25/10	05/25/10	KWG1004900	
Chloroethane	37.0		5.0	0.31	1	05/25/10	05/25/10	KWG1004900	
Trichlorofluoromethane	30.1		5.0	0.21	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloroethene	36.0		5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
Acetone	176		20	3.9	1	05/25/10	05/25/10	KWG1004900	
Carbon Disulfide	80.7		5.0	0.26	1	05/25/10	05/25/10	KWG1004900	
Methylene Chloride	37.1		10	0.43	1	05/25/10	05/25/10	KWG1004900	
trans-1,2-Dichloroethene	37.4		5.0	0.35	1	05/25/10	05/25/10	KWG1004900	*
1,1-Dichloroethane	38.1		5.0	0.20	1	05/25/10	05/25/10	KWG1004900	
2,2-Dichloropropane	40.3		5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
cis-1,2-Dichloroethene	39.5		5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
2-Butanone (MEK)	208		20	0.99	1	05/25/10	05/25/10	KWG1004900	
Bromochloromethane	40.9		5.0	0.14	1	05/25/10	05/25/10	KWG1004900	
Chloroform	41.5		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,1,1-Trichloroethane (TCA)	40.9		5.0	0.35	1	05/25/10	05/25/10	KWG1004900	
Carbon Tetrachloride	40.5		5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloropropene	39.0		5.0	0.27	1	05/25/10	05/25/10	KWG1004900	
Benzene	41.8		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloroethane (EDC)	40.0		5.0	0.15	1	05/25/10	05/25/10	KWG1004900	
Trichloroethene (TCE)	42.8		5.0	0.27	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloropropane	41.3		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
Dibromomethane	39.8		5.0	0.28	1	05/25/10	05/25/10	KWG1004900	
Bromodichloromethane	41.9		5.0	0.15	1	05/25/10	05/25/10	KWG1004900	
cis-1,3-Dichloropropene	37.5		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
4-Methyl-2-pentanone (MIBK)	216		20	0.74	1	05/25/10	05/25/10	KWG1004900	
Toluene	40.9		5.0	0.18	1	05/25/10	05/25/10	KWG1004900	
trans-1,3-Dichloropropene	52.4		5.0	0.34	1	05/25/10	05/25/10	KWG1004900	
1,1,2-Trichloroethane	42.9		5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
Tetrachloroethene (PCE)	43.4		5.0	0.26	1	05/25/10	05/25/10	KWG1004900	
2-Hexanone	230		20	0.93	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichloropropane	44.0		5.0	0.20	1	05/25/10	05/25/10	KWG1004900	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Control Sample
Lab Code: KWG1004900-3
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	47.3		5.0	0.19	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromoethane (EDB)	44.2		20	0.27	1	05/25/10	05/25/10	KWG1004900	
Chlorobenzene	43.4		5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
Ethylbenzene	44.9		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,1,1,2-Tetrachloroethane	47.5		5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
m,p-Xylenes	94.7		5.0	0.37	1	05/25/10	05/25/10	KWG1004900	
o-Xylene	46.5		5.0	0.13	1	05/25/10	05/25/10	KWG1004900	
Styrene	47.8		5.0	0.13	1	05/25/10	05/25/10	KWG1004900	
Bromoform	52.5		5.0	0.30	1	05/25/10	05/25/10	KWG1004900	
Isopropylbenzene	48.7		20	0.13	1	05/25/10	05/25/10	KWG1004900	
1,1,2,2-Tetrachloroethane	39.3		5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
Bromobenzene	47.9		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
n-Propylbenzene	49.0		20	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichloropropane	45.2		5.0	0.38	1	05/25/10	05/25/10	KWG1004900	
2-Chlorotoluene	49.9		20	0.29	1	05/25/10	05/25/10	KWG1004900	
1,3,5-Trimethylbenzene	49.5		20	0.36	1	05/25/10	05/25/10	KWG1004900	
4-Chlorotoluene	50.5		20	0.26	1	05/25/10	05/25/10	KWG1004900	
tert-Butylbenzene	47.9		20	0.33	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trimethylbenzene	47.4		20	0.28	1	05/25/10	05/25/10	KWG1004900	
sec-Butylbenzene	46.4		20	0.31	1	05/25/10	05/25/10	KWG1004900	
4-Isopropyltoluene	46.7		20	0.28	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichlorobenzene	47.2		5.0	0.24	1	05/25/10	05/25/10	KWG1004900	
1,4-Dichlorobenzene	46.2		5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
n-Butylbenzene	47.9		20	0.32	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichlorobenzene	46.3		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromo-3-chloropropane	50.4		20	0.66	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trichlorobenzene	50.2		20	0.23	1	05/25/10	05/25/10	KWG1004900	
Hexachlorobutadiene	54.3		20	0.21	1	05/25/10	05/25/10	KWG1004900	
Naphthalene	50.4		20	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichlorobenzene	52.6		20	0.21	1	05/25/10	05/25/10	KWG1004900	

* See Case Narrative

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Control Sample
Lab Code: KWG1004900-3

Units: ug/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	83-128	05/25/10	Acceptable
Toluene-d8	105	90-125	05/25/10	Acceptable
4-Bromofluorobenzene	110	77-124	05/25/10	Acceptable

Comments: _____

Exception Report

Data File: J:\MS24\DATA\052510\0525F005.D
Lab ID: KWG1004900-3
RunType: LCS
Matrix: SEDIMENT

Date Acquired: 05/25/2010 11:14
Date Quantitated: 05/25/2010 14:52
Batch ID: KWG1004880
Analysis Method: 8260B
MethodJoinID: MJ120

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA		x
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	1,4-Dioxane	0.0037	0.01	NA	KJ
Continuing Calibration Minimum RF	1,4-Dioxane	0.0034	0.01	NA	J

Primary Review: KJ

Secondary Review: cm-5/25/10

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 8260B VOC_FP	Collect Date:	SEDIMENT
		Receive Date: 05/25/2010

Analysis Lot: KWG1004880	Prep Lot: KWG1004900	Report Group:
Analysis Method: 8260B	Prep Method: EPA 5030A	
Prep Ref: 911430	Prep Date: 05/25/2010	

Quant Method: J:\MS24\METHODS\042110MS24SO	Calibration ID: CAL9404
Title:	
Tune Ref: J:\MS24\DATA\052510\0525F002.D	Method ID: MJ120
MB Ref: J:\MS24\DATA\052510\0525F009.D	Quant based on Method

Data File: J:\MS24\DATA\052510\0525F005.D	Instrument: MS24
Acqu Date: 05/25/2010 11:14	Quant Date: 05/25/2010 14:52
Run Type: LCS	Vial: 4
Lab ID: KWG1004900-3	Dilution: 1.0
	Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	4.02	0.00	96	418826	50.00	OK
2	Chlorobenzene-d5	6.65	0.00	82	167585	50.00	OK
3	1,4-Dichlorobenzene-d4	8.98	0.00	152	148678	50.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	3.53	-0.01	0.00	113	97882	46.76	94	43-153	OK
1	1,2-Dichloroethane-d4	3.81	0.00	0.00	65	130622	43.23	86	64-142	OK
1	Toluene-d8	5.31	0.00	0.00	98	386523	52.64	105	49-151	OK
2	4-Bromofluorobenzene	7.83	0.00	0.00	95	141811	55.13	110	33-150	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
								Final Conc. Units: ug/Kg Wet Weight		
1	Dichlorodifluoromethane	0.85	-0.01	0.00	85	93940	36.33	36.3		
1	Chloromethane	0.99		0.00	50	128054	39.07	39.1		
1	Vinyl Chloride	1.06		0.00	62	116250	39.98	40.0		
1	Bromomethane	1.28	-0.02	0.00	96	64549m	26.68	26.7		
1	Chloroethane	1.36	-0.01	0.00	64	70171	37.02	37.0		
1	Dichlorofluoromethane (CFC 21)	1.86	0.34	0.08	67	733	0.1500	0.150	J	
1	Trichlorofluoromethane	1.50	-0.01	0.00	101	120539	30.06	30.1		
1	Diethyl Ether	1.72	-0.01	0.00	59	89591	37.35	37.4		
1	Acrolein	1.87		0.00	56	30793	66.49	66.5	J	
1	Trichlorotrifluoroethane	1.85	-0.01	0.00	151	57423	37.46	37.5		
1	1,1-Dichloroethene	1.88		0.00	96	63244	35.96	36.0		
1	Acetone	1.98		0.00	43	171424	175.79	176		
1	Iodomethane (Methyl Iodide)	1.99	-0.01	0.00	142	170741	71.08	71.1		
1	Carbon Disulfide	2.01		0.00	76	557733	80.70	80.7		

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D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

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 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File: J:\MS24\DATA\052510\0525F005.D
 Acqu Date: 05/25/2010 11:14
 Run Type: LCS
 Lab ID: KWG1004900-3

Quant Date: 05/25/2010 14:52

Instrument: MS24
 Vial: 4
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	3-Chloro-1-propene	2.15	-0.01	0.00	76	81477	64.77	64.8		
1	Acetonitrile	2.23		0.00	40	135744	708.85	709		
1	Methylene Chloride	2.26	-0.01	0.00	84	93446	37.06	37.1		
1	tert-Butyl Alcohol	2.35		0.00	59	126740	362.41	362		
1	Acrylonitrile	2.50		0.00	53	105585	108.33	108		
1	Methyl tert-Butyl Ether	2.40		0.00	73	302945	41.10	41.1		
1	trans-1,2-Dichloroethene	2.41	-0.01	0.00	96	82158	37.35	37.4		
1	n-Hexane	2.54		0.00	57	182056	60.39	60.4		
1	Diisopropyl Ether	2.73	-0.01	0.00	45	633926	76.50	76.5		
1	1,1-Dichloroethane	2.75		0.00	63	165226	38.08	38.1		
1	Vinyl Acetate	2.78		0.00	86	75221	186.28	186		
1	Chloroprene	2.78		0.00	53	232884	78.90	78.9		
1	tert-Butyl Ethyl Ether	2.99		0.00	59	607207	80.71	80.7		
1	2,2-Dichloropropane	3.15		0.00	77	119819	40.28	40.3		
1	cis-1,2-Dichloroethene	3.17	-0.01	0.00	96	96307	39.46	39.5		
1	2-Butanone (MEK)	3.21		0.00	72	65231	207.95	208		
1	Propionitrile	3.32		0.00	54	25937	66.77	66.8		
1	Methacrylonitrile	3.40		0.00	67	72797	70.57	70.6		
1	Bromochloromethane	3.36		0.00	128	48989	40.94	40.9		
1	Chloroform	3.41		0.00	83	169934	41.50	41.5		
1	1,1,1-Trichloroethane (TCA)	3.50	-0.01	0.00	97	127810	40.88	40.9		
1	Carbon Tetrachloride	3.59		0.00	117	108965	40.53	40.5		
1	1,1-Dichloropropene	3.62	-0.01	0.00	75	109683	39.04	39.0		
1	Isobutanol	3.78		0.00	43	86901	678.35	678		
1	Benzene	3.79		0.00	78	372961	41.80	41.8		
1	1,2-Dichloroethane (EDC)	3.87		0.00	62	144784	39.99	40.0		
1	tert-Amyl Methyl Ether	3.84		0.00	55	163950	84.80	84.8		
1	Trichloroethene (TCE)	4.29		0.00	95	100882	42.77	42.8		
1	1,2-Dichloropropane	4.52	-0.01	0.00	63	98099	41.27	41.3		
1	Dibromomethane	4.62		0.00	93	59837	39.84	39.8		
1	Methyl Methacrylate	4.60		0.00	69	114382	68.76	68.8		
1	1,4-Dioxane	4.62		0.00	88	24461	795.98	796		
1	Bromodichloromethane	4.75		0.00	83	125589	41.91	41.9		
1	2-Nitropropane	5.02		0.00	41	43041	69.13	69.1		
1	2-Chloroethyl Vinyl Ether	5.02		0.00	63	65320	44.46	44.5		
1	cis-1,3-Dichloropropene	5.13		0.00	75	125501	37.52	37.5		
1	4-Methyl-2-pentanone (MIBK)	5.26	-0.01	0.00	58	197121	215.97	216		
1	Toluene	5.36	-0.01	0.00	92	219274	40.91	40.9		
2	trans-1,3-Dichloropropene	5.65		0.00	75	145282	52.38	52.4		
2	Ethyl Methacrylate	5.67		0.00	69	210382	79.74	79.7		
2	1,1,2-Trichloroethane	5.81		0.00	83	74501	42.92	42.9		
2	Tetrachloroethene (PCE)	5.82		0.00	164	71345	43.40	43.4		

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Data File: J:\MS24\DATA\052510\0525F005.D
 Acqu Date: 05/25/2010 11:14
 Run Type: LCS
 Lab ID: KWG1004900-3

Quant Date: 05/25/2010 14:52

Instrument: MS24
 Vial: 4
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2	2-Hexanone	6.02		0.00	57	67292	229.65	230		
2	1,3-Dichloropropane	5.97		0.00	76	152238	44.03	44.0		
2	Dibromochloromethane	6.13		0.00	129	91877	47.33	47.3		
2	1,2-Dibromoethane (EDB)	6.25		0.00	107	83813	44.20	44.2		
2	1-Chlorohexane	6.64		0.00	91	113281	47.54	47.5		
2	Chlorobenzene	6.68		0.00	112	250826	43.35	43.4		
2	Ethylbenzene	6.76		0.00	106	126408	44.86	44.9		
2	1,1,1,2-Tetrachloroethane	6.77		0.00	131	90599	47.46	47.5		
2	m,p-Xylenes	6.87		0.00	106	314370	94.68	94.7		
2	o-Xylene	7.27		0.00	106	154993	46.50	46.5		
2	Styrene	7.30		0.00	103	124929m	47.79	47.8		
2	Bromoform	7.51		0.00	173	61934	52.53	52.5		
2	Isopropylbenzene	7.62		0.00	105	392329	48.73	48.7		
2	cis-1,4-Dichloro-2-butene	7.80		0.00	89	25161	110.84	111		
3	1,1,2,2-Tetrachloroethane	8.03		0.00	83	85096	39.31	39.3		
3	trans-1,4-Dichloro-2-butene	8.10		0.00	53	60236	117.54	118		
3	Bromobenzene	7.96		0.00	156	111713	47.85	47.9		
3	n-Propylbenzene	8.04		0.00	91	466564	48.99	49.0		
3	1,2,3-Trichloropropane	8.07		0.00	110	37204	45.23	45.2		
3	2-Chlorotoluene	8.15		0.00	91	298225	49.94	49.9		
3	1,3,5-Trimethylbenzene	8.23		0.00	105	331375	49.52	49.5		
3	4-Chlorotoluene	8.27		0.00	91	304369	50.48	50.5		
3	tert-Butylbenzene	8.54		0.00	119	280554	47.86	47.9		
3	1,2,4-Trimethylbenzene	8.60		0.00	105	324183	47.37	47.4		
3	sec-Butylbenzene	8.76		0.00	105	405317	46.40	46.4		
3	4-Isopropyltoluene	8.91		0.00	119	340079	46.66	46.7		
3	1,3-Dichlorobenzene	8.90		0.00	146	203378	47.24	47.2		
3	1,4-Dichlorobenzene	9.00		0.00	146	206016	46.21	46.2		
3	n-Butylbenzene	9.31		0.00	91	308038	47.85	47.9		
3	1,2-Dichlorobenzene	9.36		0.00	146	195804	46.27	46.3		
3	1,2-Dibromo-3-chloropropane	10.14		0.00	155	16290	50.37	50.4		
3	1,2,4-Trichlorobenzene	10.86		0.00	180	134358	50.16	50.2		
3	Hexachlorobutadiene	10.96		0.00	225	72715	54.25	54.3		
3	Naphthalene	11.09		0.00	128	310313	50.38	50.4		
3	1,2,3-Trichlorobenzene	11.32		0.00	180	131110	52.56	52.6		
	4-Vinyl-1-cyclohexene				0	0		5.0	UJ	NR
	Benzyl Chloride				0	0		5.0	UJ	NR
	Hexachloroethane				0	0		1.0	UJ	NR
	2,2,4-Trimethylpentane				0	0		5.0	UJ	NR
	1,3-Butadiene				0	0		2.0	UJ	NR
	1,1,2-Trifluoroethane				0	0		10	UJ	NR
	n-Butyl Alcohol				0	0		250	U	NR

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 c: check for co-elution

Data File: J:\MS24\DATA\052510\0525F005.D
 Acqu Date: 05/25/2010 11:14
 Run Type: LCS
 Lab ID: KWG1004900-3

Quant Date: 05/25/2010 14:52

Instrument: MS24
 Vial: 4
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2-Propanol			0	0		200	U	NR
Ethyl Alcohol			0	0		200	U	NR
2,2-Dichloro-1,1,1-trifluoroetha			0	0		5.0	UJ	NR
Cyclohexanone			0	0		10	UJ	NR
2-Methylpentane			0	0		5.0	UJ	NR
n-Heptane			0	0		5.0	UJ	NR
3-Methylpentane			0	0		5.0	UJ	NR
Methylcyclopentane			0	0		5.0	UJ	NR
Ethyl Acetate			0	0		20	UJ	NR

Prep Amount: 5.00 g Dilution: 1.0
 Prep Final Vol: 5.0 ml Unit Factor: 1
 Solids: %

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

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 E: Analyte concentration above high point of ICAL
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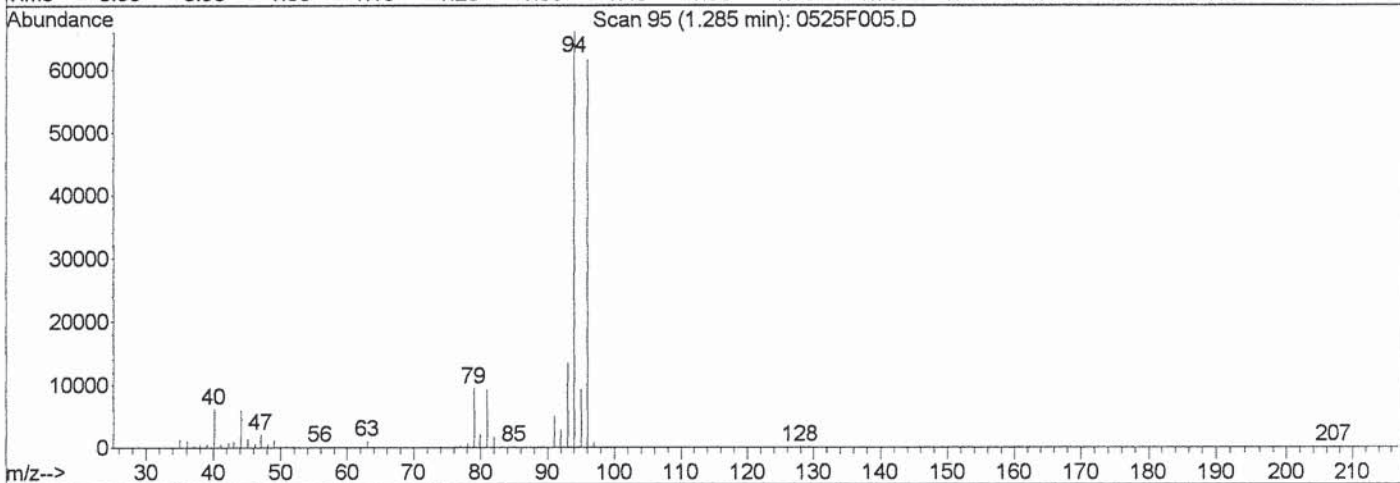
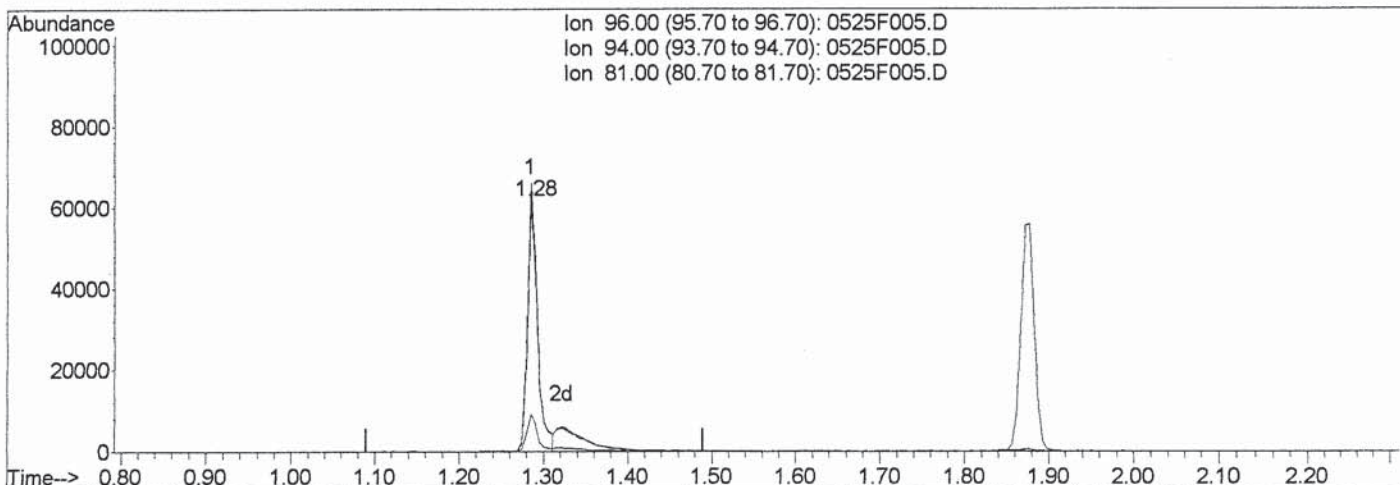
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F005.D
 Acq On : 25 May 2010 11:14 am
 Sample : LCS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:52 2010

Vial: 4
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F005.D

(5) Bromomethane (T)

1.28min 20.81PPB

response 50347

Ion	Exp%	Act%
96.00	100	100
94.00	106.40	106.81
81.00	18.10	14.66
0.00	0.00	0.00

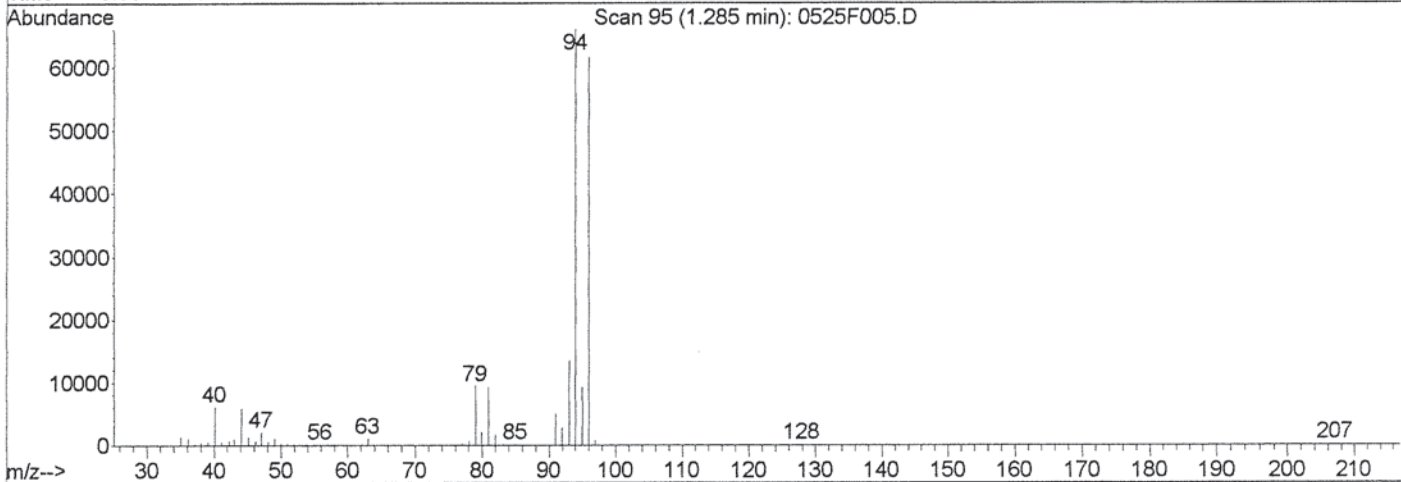
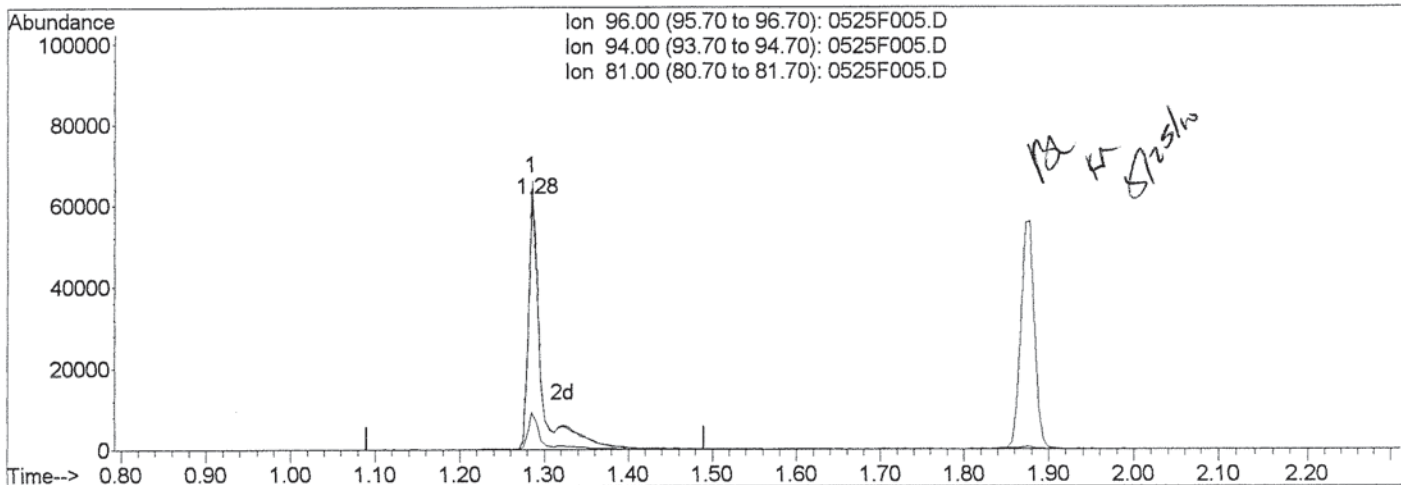
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F005.D
 Acq On : 25 May 2010 11:14 am
 Sample : LCS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:52 2010

Vial: 4
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



(5) Bromomethane (T)

1.28min 26.68PPB m

response 64549

Ion	Exp%	Act%
96.00	100	100
94.00	106.40	107.10
81.00	18.10	14.86
0.00	0.00	0.00

Ann 5/25/10

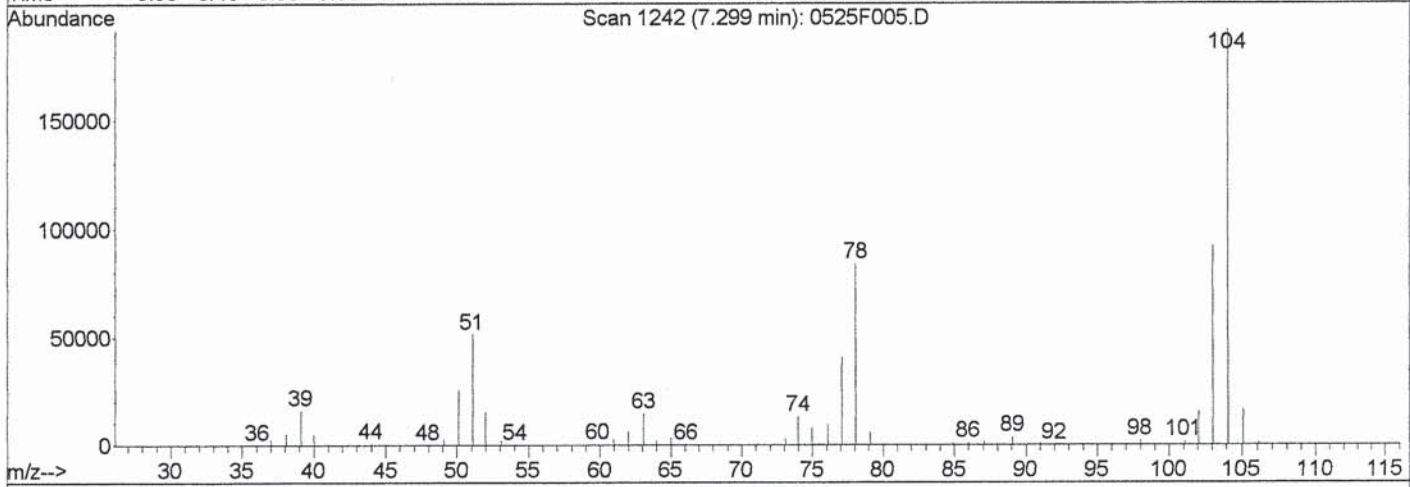
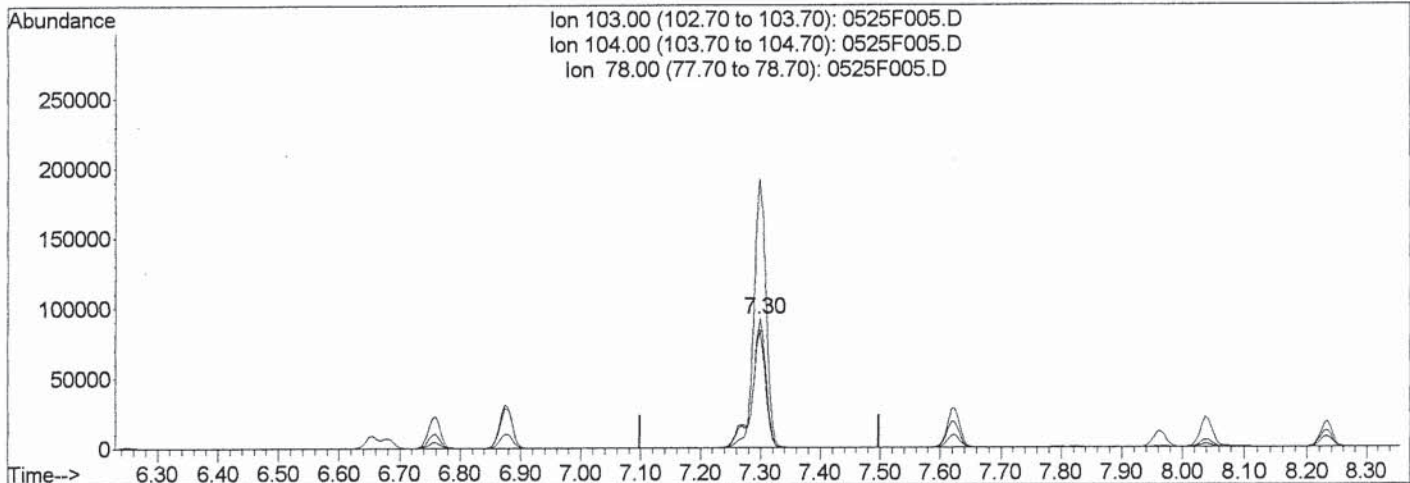
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F005.D
 Acq On : 25 May 2010 11:14 am
 Sample : LCS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:52 2010

Vial: 4
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F005.D

(75) Styrene (T)

7.30min 56.09PPB

response 146633

Ion	Exp%	Act%
103.00	100	100
104.00	208.80	208.82
78.00	88.30	91.09
0.00	0.00	0.00

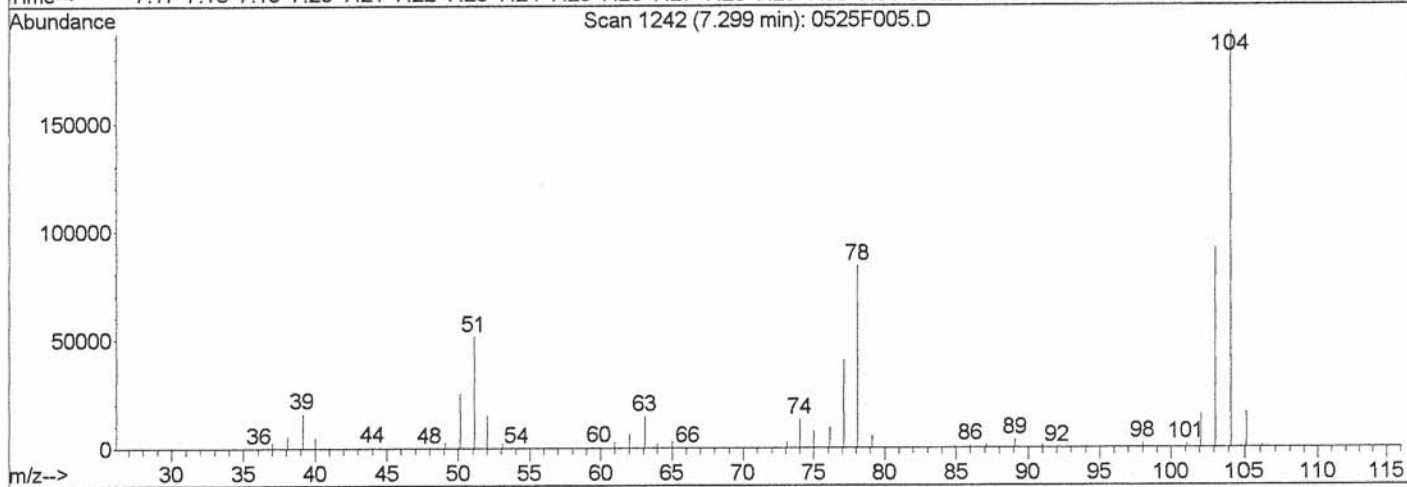
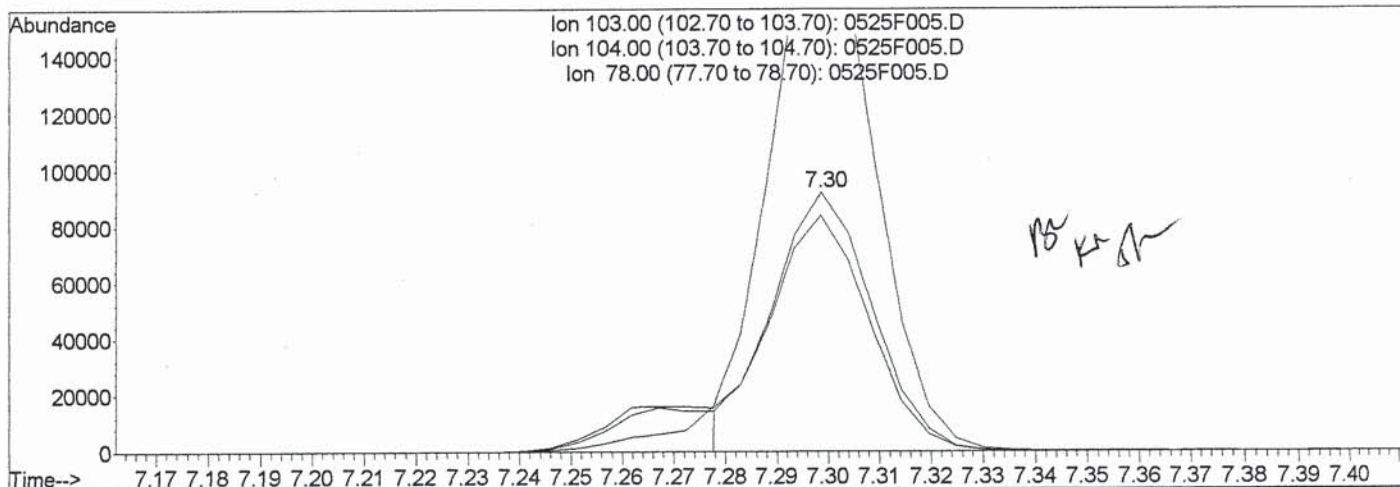
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F005.D
 Acq On : 25 May 2010 11:14 am
 Sample : LCS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:52 2010

Vial: 4
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



(75) Styrene (T)

7.30min 47.79PPB m

response 124929

Ion	Exp%	Act%
103.00	100	100
104.00	208.80	208.82
78.00	88.30	91.09
0.00	0.00	0.00

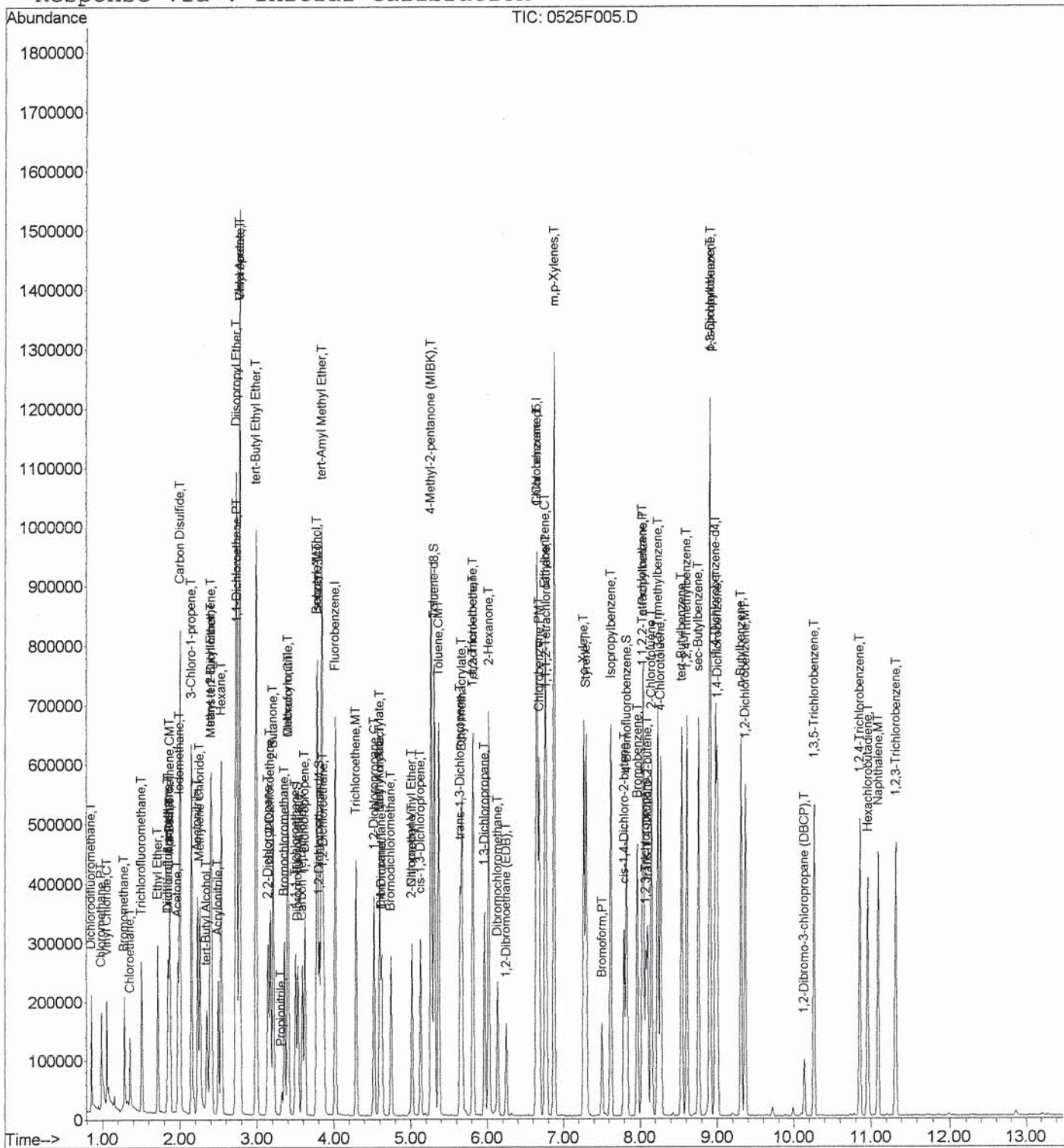
5/25/10

Data File : J:\MS24\DATA\052510\0525F005.D
 Acq On : 25 May 2010 11:14 am
 Sample : LCS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:52 2010

Vial: 4
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Duplicate Lab Control Sample
Lab Code: KWG1004900-4
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	42.5		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
Chloromethane	44.8		5.0	0.46	1	05/25/10	05/25/10	KWG1004900	
Vinyl Chloride	45.8		5.0	0.31	1	05/25/10	05/25/10	KWG1004900	
Bromomethane	31.0		5.0	0.62	1	05/25/10	05/25/10	KWG1004900	
Chloroethane	43.1		5.0	0.31	1	05/25/10	05/25/10	KWG1004900	
Trichlorofluoromethane	34.7		5.0	0.21	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloroethene	41.4		5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
Acetone	204		20	3.9	1	05/25/10	05/25/10	KWG1004900	
Carbon Disulfide	93.4		5.0	0.26	1	05/25/10	05/25/10	KWG1004900	
Methylene Chloride	44.0		10	0.43	1	05/25/10	05/25/10	KWG1004900	
trans-1,2-Dichloroethene	42.8		5.0	0.35	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloroethane	41.9		5.0	0.20	1	05/25/10	05/25/10	KWG1004900	
2,2-Dichloropropane	43.9		5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
cis-1,2-Dichloroethene	43.0		5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
2-Butanone (MEK)	231		20	0.99	1	05/25/10	05/25/10	KWG1004900	
Bromochloromethane	45.1		5.0	0.14	1	05/25/10	05/25/10	KWG1004900	
Chloroform	45.0		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,1,1-Trichloroethane (TCA)	44.7		5.0	0.35	1	05/25/10	05/25/10	KWG1004900	
Carbon Tetrachloride	44.2		5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
1,1-Dichloropropene	42.3		5.0	0.27	1	05/25/10	05/25/10	KWG1004900	
Benzene	44.2		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloroethane (EDC)	44.2		5.0	0.15	1	05/25/10	05/25/10	KWG1004900	
Trichloroethene (TCE)	46.2		5.0	0.27	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichloropropane	46.6		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
Dibromomethane	45.2		5.0	0.28	1	05/25/10	05/25/10	KWG1004900	
Bromodichloromethane	48.0		5.0	0.15	1	05/25/10	05/25/10	KWG1004900	
cis-1,3-Dichloropropene	42.8		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
4-Methyl-2-pentanone (MIBK)	253		20	0.74	1	05/25/10	05/25/10	KWG1004900	
Toluene	47.0		5.0	0.18	1	05/25/10	05/25/10	KWG1004900	
trans-1,3-Dichloropropene	53.6		5.0	0.34	1	05/25/10	05/25/10	KWG1004900	
1,1,2-Trichloroethane	44.5		5.0	0.23	1	05/25/10	05/25/10	KWG1004900	
Tetrachloroethene (PCE)	43.9		5.0	0.26	1	05/25/10	05/25/10	KWG1004900	
2-Hexanone	238		20	0.93	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichloropropane	45.5		5.0	0.20	1	05/25/10	05/25/10	KWG1004900	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Duplicate Lab Control Sample
Lab Code: KWG1004900-4
Extraction Method: EPA 5030A
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	48.5		5.0	0.19	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromoethane (EDB)	45.4		20	0.27	1	05/25/10	05/25/10	KWG1004900	
Chlorobenzene	44.5		5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
Ethylbenzene	45.8		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,1,1,2-Tetrachloroethane	48.3		5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
m,p-Xylenes	96.1		5.0	0.37	1	05/25/10	05/25/10	KWG1004900	
o-Xylene	47.7		5.0	0.13	1	05/25/10	05/25/10	KWG1004900	
Styrene	48.5		5.0	0.13	1	05/25/10	05/25/10	KWG1004900	
Bromoform	53.6		5.0	0.30	1	05/25/10	05/25/10	KWG1004900	
Isopropylbenzene	48.6		20	0.13	1	05/25/10	05/25/10	KWG1004900	
1,1,2,2-Tetrachloroethane	44.1		5.0	0.36	1	05/25/10	05/25/10	KWG1004900	
Bromobenzene	46.8		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
n-Propylbenzene	48.6		20	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichloropropane	44.8		5.0	0.38	1	05/25/10	05/25/10	KWG1004900	
2-Chlorotoluene	49.0		20	0.29	1	05/25/10	05/25/10	KWG1004900	
1,3,5-Trimethylbenzene	49.3		20	0.36	1	05/25/10	05/25/10	KWG1004900	
4-Chlorotoluene	50.0		20	0.26	1	05/25/10	05/25/10	KWG1004900	
tert-Butylbenzene	48.6		20	0.33	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trimethylbenzene	48.5		20	0.28	1	05/25/10	05/25/10	KWG1004900	
sec-Butylbenzene	46.8		20	0.31	1	05/25/10	05/25/10	KWG1004900	
4-Isopropyltoluene	47.6		20	0.28	1	05/25/10	05/25/10	KWG1004900	
1,3-Dichlorobenzene	47.9		5.0	0.24	1	05/25/10	05/25/10	KWG1004900	
1,4-Dichlorobenzene	46.8		5.0	0.25	1	05/25/10	05/25/10	KWG1004900	
n-Butylbenzene	48.8		20	0.32	1	05/25/10	05/25/10	KWG1004900	
1,2-Dichlorobenzene	46.7		5.0	0.22	1	05/25/10	05/25/10	KWG1004900	
1,2-Dibromo-3-chloropropane	52.1		20	0.66	1	05/25/10	05/25/10	KWG1004900	
1,2,4-Trichlorobenzene	50.5		20	0.23	1	05/25/10	05/25/10	KWG1004900	
Hexachlorobutadiene	54.2		20	0.21	1	05/25/10	05/25/10	KWG1004900	
Naphthalene	50.9		20	0.36	1	05/25/10	05/25/10	KWG1004900	
1,2,3-Trichlorobenzene	52.5		20	0.21	1	05/25/10	05/25/10	KWG1004900	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Misc. solid

Service Request: K1005244
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Duplicate Lab Control Sample
Lab Code: KWG1004900-4

Units: ug/Kg
Basis: Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	83-128	05/25/10	Acceptable
Toluene-d8	115	90-125	05/25/10	Acceptable
4-Bromofluorobenzene	109	77-124	05/25/10	Acceptable

Comments: _____

Quantitation Report

Bottle ID:		Tier:		Matrix: SEDIMENT	
Prod Code: 8260B VOC_FP		Collect Date:		Receive Date: 05/25/2010	
Analysis Lot: KWG1004880		Prep Lot: KWG1004900		Report Group:	
Analysis Method: 8260B		Prep Method: EPA 5030A			
Prep Ref: 911431		Prep Date: 05/25/2010			
Quant Method: J:\MS24\METHODS\042110MS24SO				Calibration ID: CAL9404	
Title:					
Tune Ref: J:\MS24\DATA\052510\0525F002.D				Method ID: MJ120	
MB Ref: J:\MS24\DATA\052510\0525F009.D				Quant based on Method	
Data File: J:\MS24\DATA\052510\0525F006.D		Instrument: MS24			
Acqu Date: 05/25/2010 11:35		Quant Date: 05/25/2010 14:53		Vial: 5	
Run Type: DLCS				Dilution: 1.0	
Lab ID: KWG1004900-4				Soln Conc. Units: PPB	

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	4.02	0.00	96	355415	50.00	OK
2	Chlorobenzene-d5	6.65	0.00	82	159438	50.00	OK
3	1,4-Dichlorobenzene-d4	8.98	0.00	152	144430	50.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	3.53	-0.01	0.00	113	88941	50.07	100	43-153	OK
1	1,2-Dichloroethane-d4	3.81	0.00	0.00	65	118957	46.39	93	64-142	OK
1	Toluene-d8	5.31	0.00	0.00	98	357374	57.36	115	49-151	OK
2	4-Bromofluorobenzene	7.83	0.00	0.00	95	132928	54.32	109	33-150	OK

Target Compounds

								Final Conc. Units: ug/Kg Wet Weight			
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?	
1	Dichlorodifluoromethane	0.85	-0.01	0.00	85	93270	42.51	42.5			
1	Chloromethane	0.99		0.00	50	124589	44.79	44.8			
1	Vinyl Chloride	1.05	-0.01	0.00	62	113073	45.82	45.8			
1	Bromomethane	1.28	-0.02	0.00	96	63578m	30.97	31.0			
1	Chloroethane	1.36	-0.01	0.00	64	69293	43.08	43.1			
1	Dichlorofluoromethane (CFC 21)	1.36	-0.16	-0.04	67	501	0.1200	0.120	J		
1	Trichlorofluoromethane	1.51		0.00	101	118021	34.68	34.7			
1	Diethyl Ether	1.72	-0.01	0.00	59	89151	43.80	43.8			
1	Acrolein	1.87		0.00	56	30969	78.80	78.8	J		
1	Trichlorotrifluoroethane	1.85	-0.01	0.00	151	55378	42.58	42.6			
1	1,1-Dichloroethene	1.87	-0.01	0.00	96	61839	41.43	41.4			
1	Acetone	1.98		0.00	43	168911	204.12	204			
1	Iodomethane (Methyl Iodide)	1.99	-0.01	0.00	142	173493	85.11	85.1			
1	Carbon Disulfide	2.01		0.00	76	547516	93.36	93.4			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS24\DATA\052510\0525F006.D	Instrument:	MS24
Acqu Date:	05/25/2010 11:35	Quant Date:	05/25/2010 14:53
Run Type:	DLCS	Vial:	5
Lab ID:	KWG1004900-4	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	3-Chloro-1-propene	2.15	-0.01	0.00	76	79396	74.38	74.4		
1	Acetonitrile	2.23		0.00	40	133076	818.90	819		
1	Methylene Chloride	2.26	-0.01	0.00	84	94029	43.95	44.0		
1	tert-Butyl Alcohol	2.35		0.00	59	123186	415.09	415		
1	Acrylonitrile	2.50		0.00	53	106159	128.35	128		
1	Methyl tert-Butyl Ether	2.40		0.00	73	302646	48.38	48.4		
1	trans-1,2-Dichloroethene	2.41	-0.01	0.00	96	79888	42.80	42.8		
1	n-Hexane	2.54		0.00	57	177690	69.45	69.5		
1	Diisopropyl Ether	2.73	-0.01	0.00	45	596830	84.87	84.9		
1	1,1-Dichloroethane	2.75		0.00	63	154157	41.86	41.9		
1	Vinyl Acetate	2.78		0.00	86	71020	207.26	207		
1	Chloroprene	2.78		0.00	53	216092	86.27	86.3		
1	tert-Butyl Ethyl Ether	2.99		0.00	59	571111	89.46	89.5		
1	2,2-Dichloropropane	3.15		0.00	77	110919	43.94	43.9		
1	cis-1,2-Dichloroethene	3.18		0.00	96	88963	42.95	43.0		
1	2-Butanone (MEK)	3.21		0.00	72	61376	230.57	231		
1	Propionitrile	3.32		0.00	54	24202	73.42	73.4		
1	Methacrylonitrile	3.40		0.00	67	67590	77.21	77.2		
1	Bromochloromethane	3.36		0.00	128	45769	45.08	45.1		
1	Chloroform	3.41		0.00	83	156269	44.97	45.0		
1	1,1,1-Trichloroethane (TCA)	3.50	-0.01	0.00	97	118480	44.65	44.7		
1	Carbon Tetrachloride	3.59		0.00	117	100789	44.17	44.2		
1	1,1-Dichloropropene	3.62	-0.01	0.00	75	100924	42.33	42.3		
1	Isobutanol	3.78		0.00	43	83188	765.23	765		
1	Benzene	3.79		0.00	78	334954	44.24	44.2		
1	1,2-Dichloroethane (EDC)	3.87		0.00	62	135823	44.21	44.2		
1	tert-Amyl Methyl Ether	3.84		0.00	55	148350	90.42	90.4		
1	Trichloroethene (TCE)	4.29		0.00	95	92543	46.23	46.2		
1	1,2-Dichloropropane	4.53		0.00	63	93960	46.59	46.6		
1	Dibromomethane	4.62		0.00	93	57668	45.24	45.2		
1	Methyl Methacrylate	4.60		0.00	69	111290	78.84	78.8		
1	1,4-Dioxane	4.62		0.00	88	20712	794.23	794		
1	Bromodichloromethane	4.75		0.00	83	121996	47.98	48.0		
1	2-Nitropropane	5.02		0.00	41	42024	79.54	79.5		
1	2-Chloroethyl Vinyl Ether	5.02		0.00	63	64550	51.77	51.8		
1	cis-1,3-Dichloropropene	5.13		0.00	75	121428	42.78	42.8		
1	4-Methyl-2-pentanone (MIBK)	5.27		0.00	58	196132	253.23	253		
1	Toluene	5.37		0.00	92	213725	46.99	47.0		
2	trans-1,3-Dichloropropene	5.65		0.00	75	141549	53.64	53.6		
2	Ethyl Methacrylate	5.67		0.00	69	207312	82.59	82.6		
2	1,1,2-Trichloroethane	5.81		0.00	83	73440	44.47	44.5		
2	Tetrachloroethene (PCE)	5.82		0.00	164	68729	43.94	43.9		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: J:\MS24\DATA\052510\0525F006.D
 Acqu Date: 05/25/2010 11:35
 Run Type: DLCS
 Lab ID: KWG1004900-4

Quant Date: 05/25/2010 14:53

Instrument: MS24
 Vial: 5
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2	2-Hexanone	6.02		0.00	57	66464	238.41	238		
2	1,3-Dichloropropane	5.97		0.00	76	149682	45.51	45.5		
2	Dibromochloromethane	6.13		0.00	129	89651	48.54	48.5		
2	1,2-Dibromoethane (EDB)	6.25		0.00	107	81903	45.40	45.4		
2	1-Chlorohexane	6.64		0.00	91	109032	48.09	48.1		
2	Chlorobenzene	6.68		0.00	112	244714	44.46	44.5		
2	Ethylbenzene	6.76		0.00	106	122742	45.79	45.8		
2	1,1,1,2-Tetrachloroethane	6.77		0.00	131	87642	48.26	48.3		
2	m,p-Xylenes	6.87		0.00	106	303682	96.13	96.1		
2	o-Xylene	7.27		0.00	106	151400	47.74	47.7		
2	Styrene	7.30		0.00	103	120521m	48.46	48.5		
2	Bromoform	7.51		0.00	173	60095	53.57	53.6		
2	Isopropylbenzene	7.62		0.00	105	372430	48.62	48.6		
2	cis-1,4-Dichloro-2-butene	7.80		0.00	89	23418	108.43	108		
3	1,1,2,2-Tetrachloroethane	8.03		0.00	83	92728	44.09	44.1		
3	trans-1,4-Dichloro-2-butene	8.10		0.00	53	57395	115.30	115		
3	Bromobenzene	7.96		0.00	156	106106	46.79	46.8		
3	n-Propylbenzene	8.04		0.00	91	449946	48.63	48.6		
3	1,2,3-Trichloropropane	8.07		0.00	110	35782	44.78	44.8		
3	2-Chlorotoluene	8.15		0.00	91	284295	49.01	49.0		
3	1,3,5-Trimethylbenzene	8.23		0.00	105	320553	49.31	49.3		
3	4-Chlorotoluene	8.27		0.00	91	292877	50.00	50.0		
3	tert-Butylbenzene	8.54		0.00	119	276985	48.64	48.6		
3	1,2,4-Trimethylbenzene	8.60		0.00	105	322331	48.48	48.5		
3	sec-Butylbenzene	8.76		0.00	105	396758	46.75	46.8		
3	4-Isopropyltoluene	8.91		0.00	119	336922	47.59	47.6		
3	1,3-Dichlorobenzene	8.90		0.00	146	200190	47.87	47.9		
3	1,4-Dichlorobenzene	9.00		0.00	146	202634	46.78	46.8		
3	n-Butylbenzene	9.31		0.00	91	305408	48.83	48.8		
3	1,2-Dichlorobenzene	9.36		0.00	146	191871	46.68	46.7		
3	1,2-Dibromo-3-chloropropane	10.14		0.00	155	16371	52.11	52.1		
3	1,2,4-Trichlorobenzene	10.86		0.00	180	131439	50.51	50.5		
3	Hexachlorobutadiene	10.96		0.00	225	70504	54.15	54.2		
3	Naphthalene	11.09		0.00	128	304749	50.93	50.9		
3	1,2,3-Trichlorobenzene	11.32		0.00	180	127235	52.51	52.5		
	4-Vinyl-1-cyclohexene				0	0		5.0	UJ	NR
	Benzyl Chloride				0	0		5.0	UJ	NR
	Hexachloroethane				0	0		1.0	UJ	NR
	2,2,4-Trimethylpentane				0	0		5.0	UJ	NR
	1,3-Butadiene				0	0		2.0	UJ	NR
	1,1,2-Trifluoroethane				0	0		10	UJ	NR
	n-Butyl Alcohol				0	0		250	U	NR

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
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 E: Analyte concentration above high point of ICAL
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 m: Manual integration performed
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 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File: J:\MS24\DATA\052510\0525F006.D
 Acqu Date: 05/25/2010 11:35
 Run Type: DLCS
 Lab ID: KWG1004900-4

Quant Date: 05/25/2010 14:53

Instrument: MS24
 Vial: 5
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
2-Propanol			0	0		200	U	NR
Ethyl Alcohol			0	0		200	U	NR
2,2-Dichloro-1,1,1-trifluoroetha			0	0		5.0	UJ	NR
Cyclohexanone			0	0		10	UJ	NR
2-Methylpentane			0	0		5.0	UJ	NR
n-Heptane			0	0		5.0	UJ	NR
3-Methylpentane			0	0		5.0	UJ	NR
Methylcyclopentane			0	0		5.0	UJ	NR
Ethyl Acetate			0	0		20	UJ	NR

Prep Amount: 5.00 g
 Prep Final Vol: 5.0 ml
 Solids: %

Dilution: 1.0
 Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

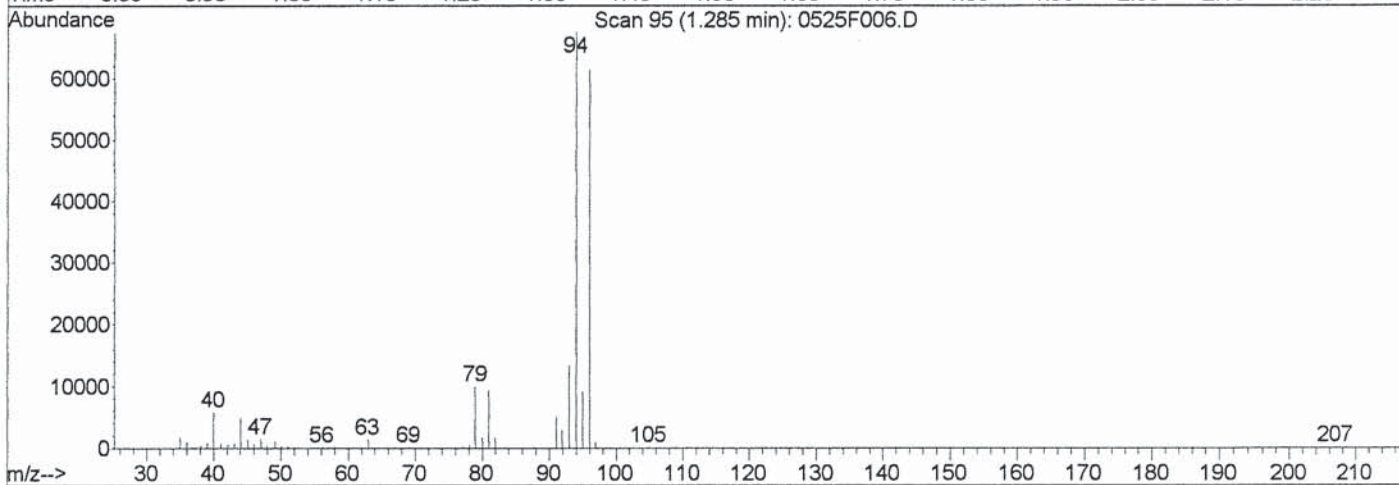
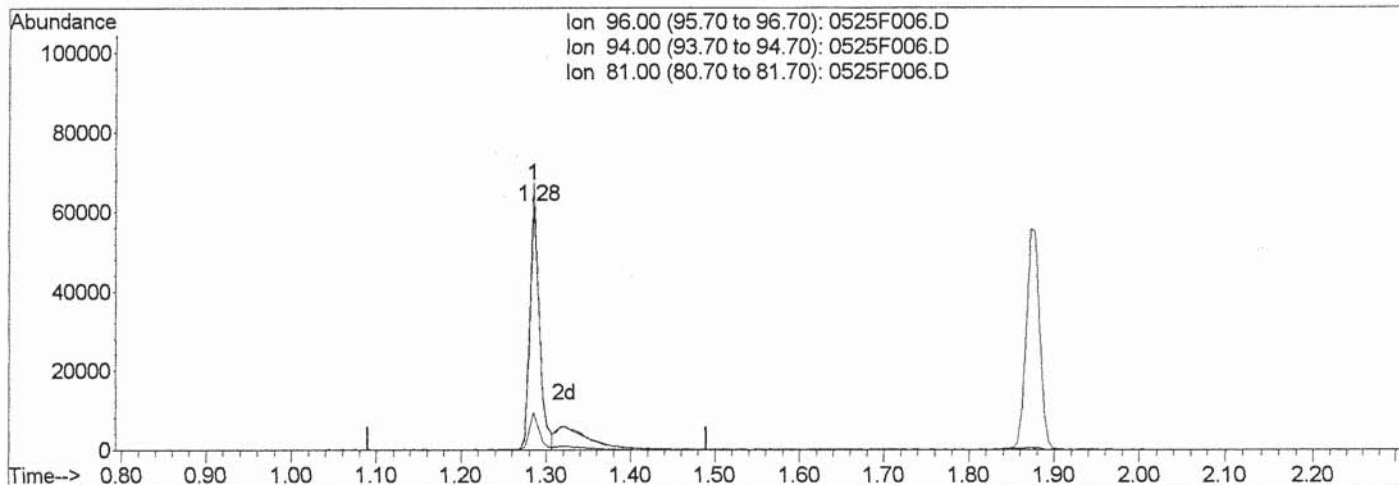
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F006.D
 Acq On : 25 May 2010 11:35 am
 Sample : DLCS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:53 2010

Vial: 5
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F006.D

(5) Bromomethane (T)

1.28min 23.33PPB

response 47899

Ion	Exp%	Act%
96.00	100	100
94.00	106.40	109.46
81.00	18.10	14.79
0.00	0.00	0.00

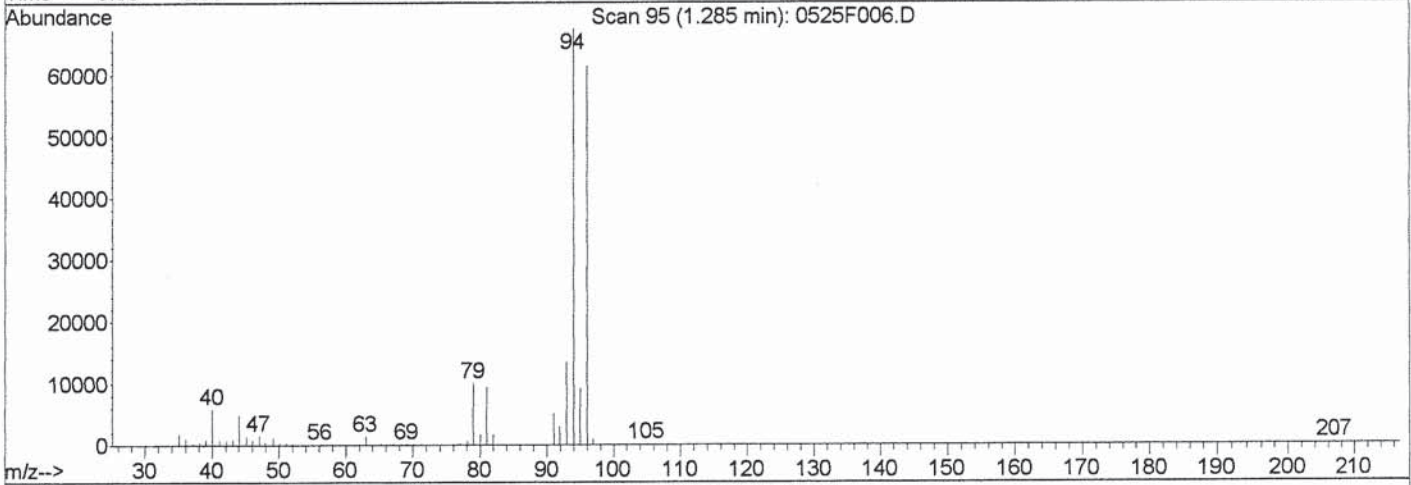
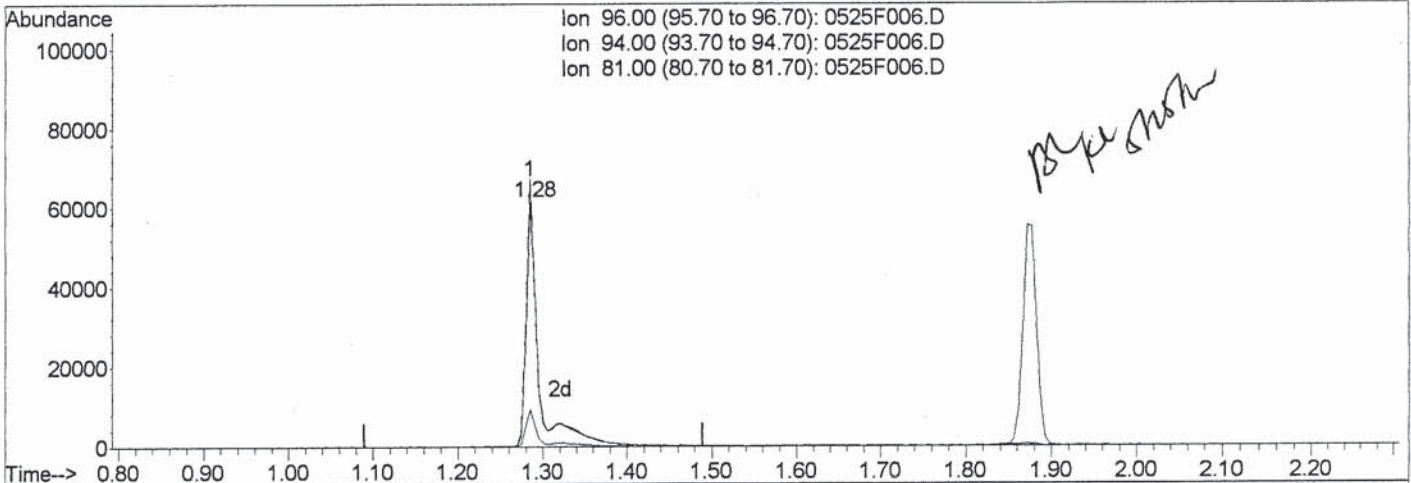
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F006.D
 Acq On : 25 May 2010 11:35 am
 Sample : DLCS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:53 2010

Vial: 5
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F006.D

(5) Bromomethane (T)

1.28min 30.97PPB m

response 63578

Ion	Exp%	Act%
96.00	100	100
94.00	106.40	109.74
81.00	18.10	15.27
0.00	0.00	0.00

Comp 5/25/10

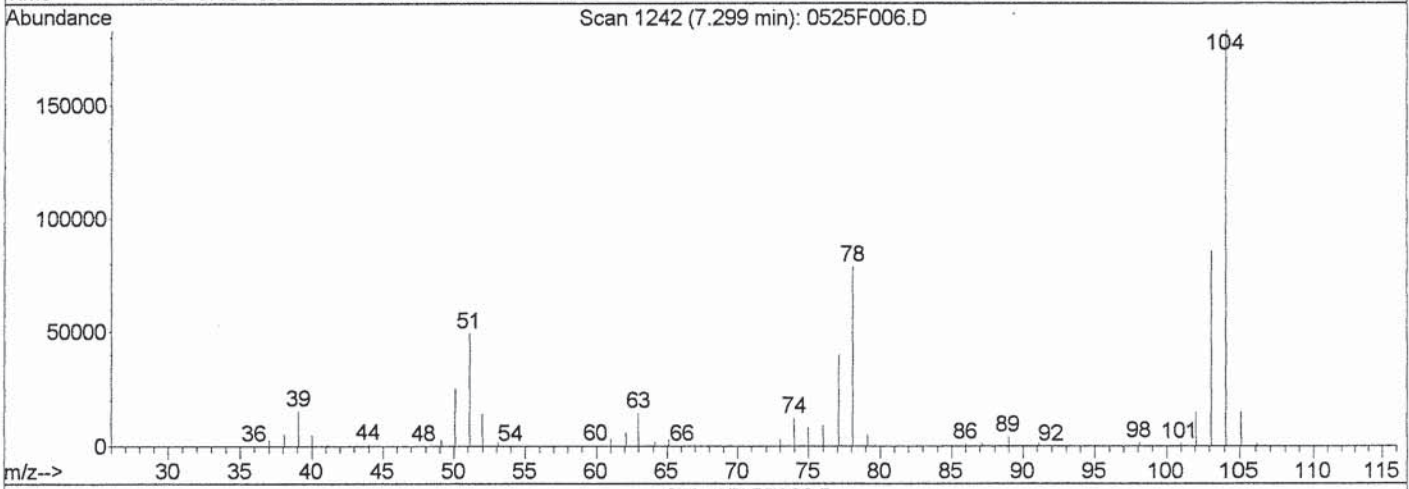
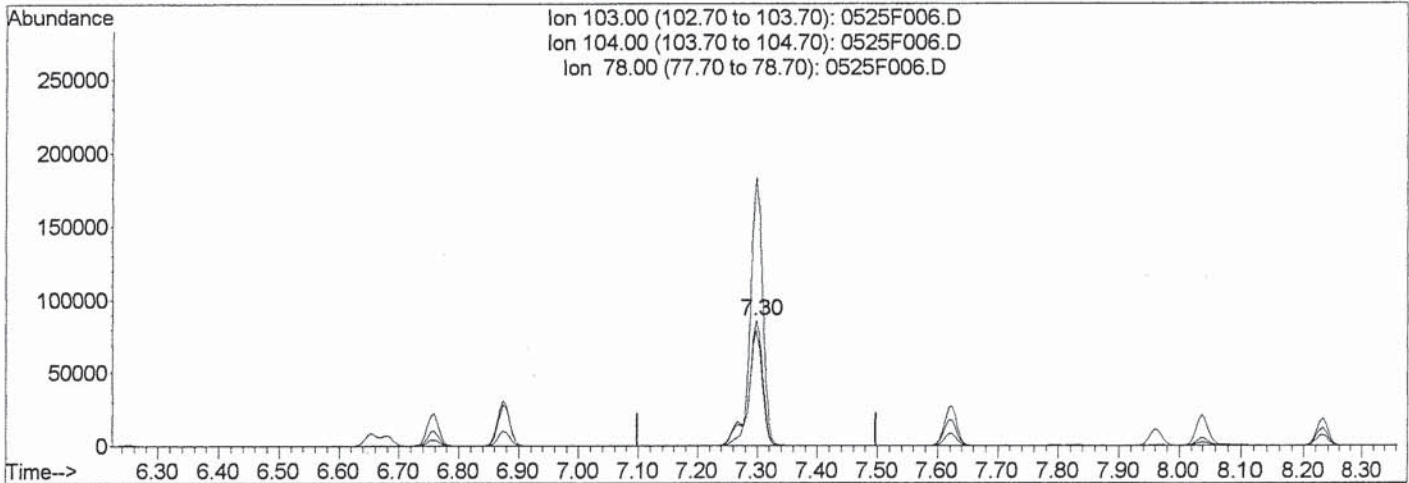
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F006.D
 Acq On : 25 May 2010 11:35 am
 Sample : DLCS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:53 2010

Vial: 5
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F006.D

(75) Styrene (T)

7.30min 56.95PPB

response 141646

Ion	Exp%	Act%
103.00	100	100
104.00	208.80	213.79
78.00	88.30	92.06
0.00	0.00	0.00

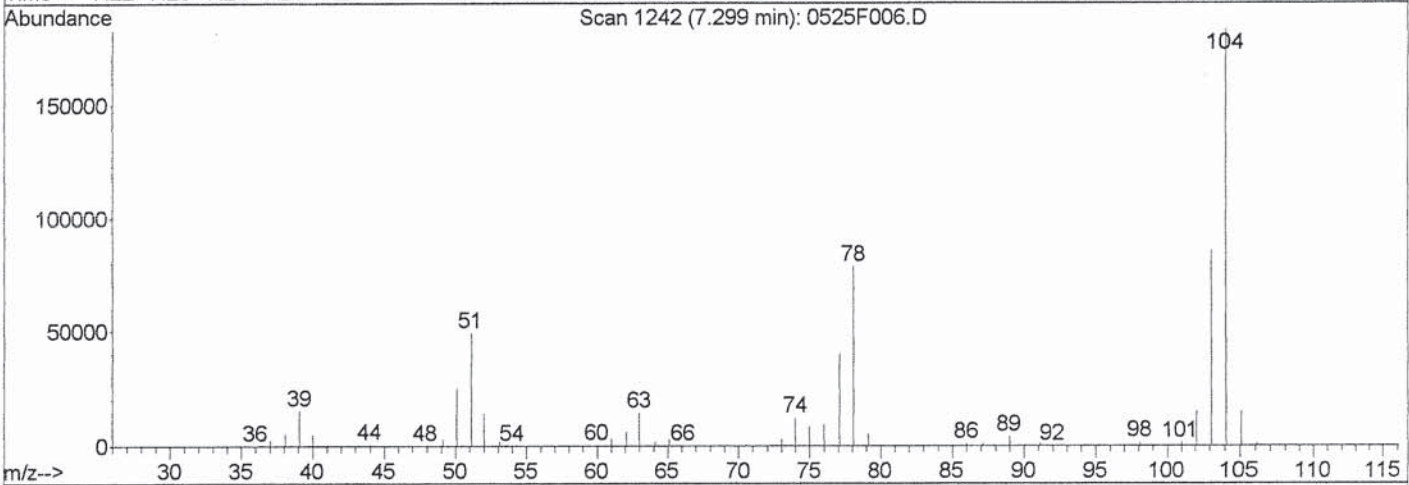
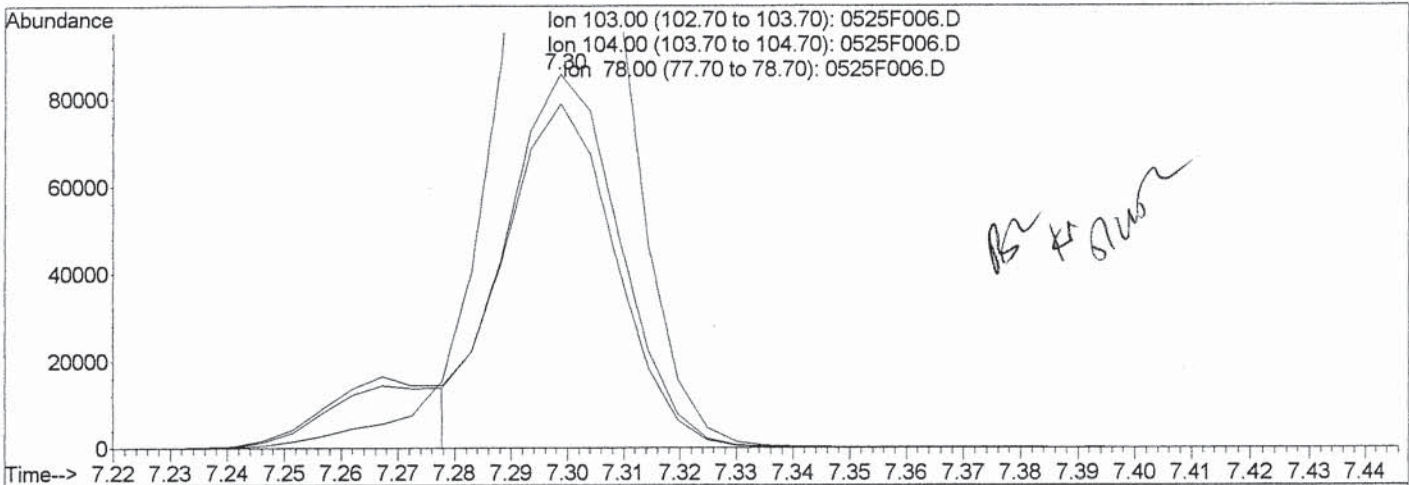
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\052510\0525F006.D
 Acq On : 25 May 2010 11:35 am
 Sample : DLCS
 Misc :
 MS Integration Params: rteint.p
 Quant Time: May 25 14:53 2010

Vial: 5
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Mon May 10 10:34:02 2010
 Response via : Single Level Calibration



TIC: 0525F006.D

(75) Styrene (T)

7.30min 48.46PPB m

response 120521

Ion	Exp%	Act%
103.00	100	100
104.00	208.80	213.79
78.00	88.30	92.06
0.00	0.00	0.00

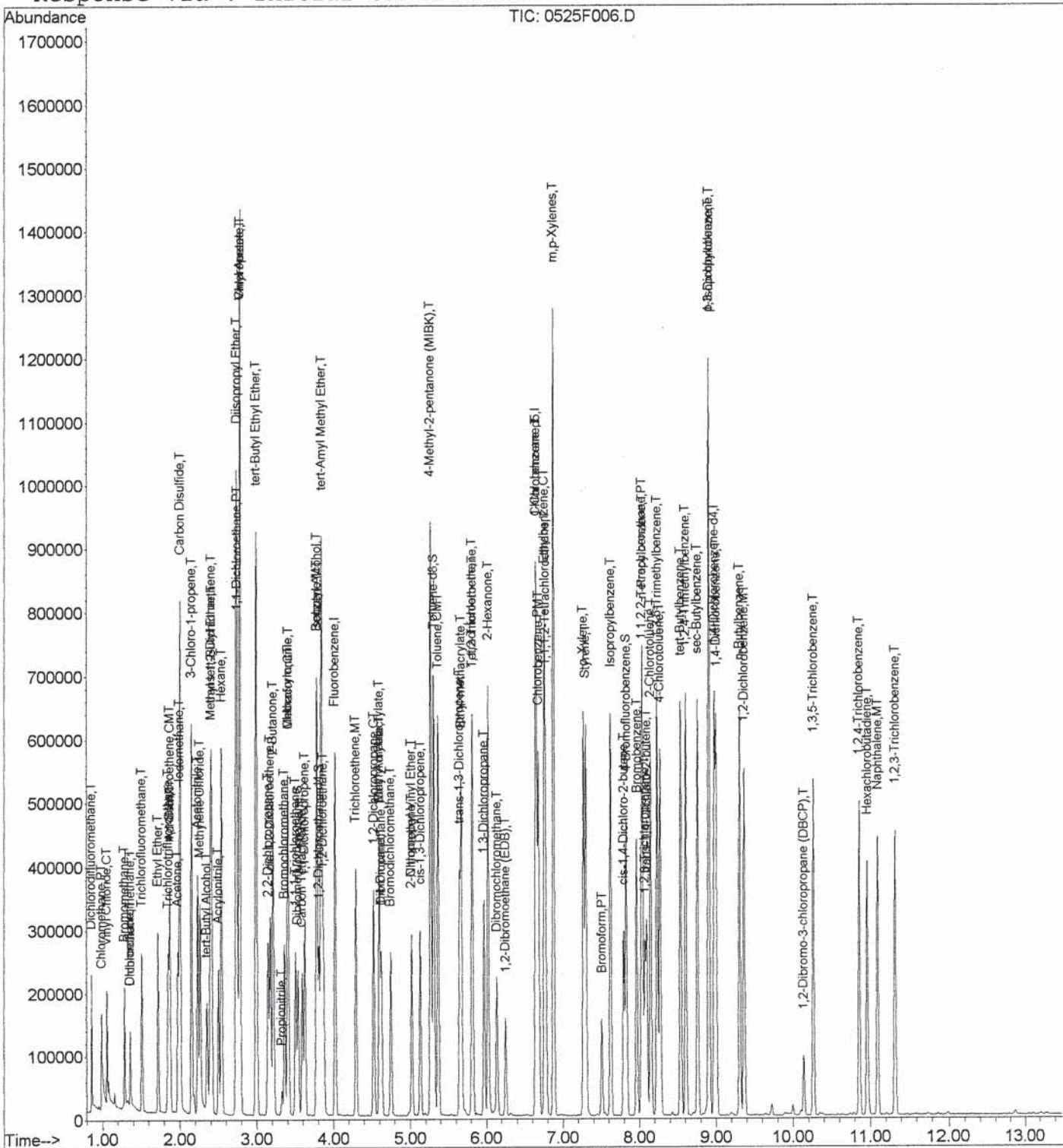
Conc 5/25/10

Data File : J:\MS24\DATA\052510\0525F006.D
Acq On : 25 May 2010 11:35 am
Sample : DLCS
Misc :
MS Integration Params: rteint.p
Quant Time: May 25 14:53 2010

Vial: 5
Operator: KR
Inst : MS24
Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
Title : VOA MS24 EPA Method 8260B
Last Update : Mon May 10 10:34:02 2010
Response via : Initial Calibration



Organic Analysis:
Volatile Organic Compounds

Validation Package

Standards Data

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Date Analyzed: 05/25/2010
Time Analyzed: 08:42

**Tune Summary
 Volatile Organic Compounds**

File ID: J:\MS24\DATA\052510\0525F002.D
Instrument ID: MS24
Column:

Analysis Method: 8260B
Analysis Lot: KWG1004880

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	24.2	3284	PASS
75	95	30	60	55.9	7570	PASS
95	95	100	100	100.0	13552	PASS
96	95	5	9	8.7	1182	PASS
173	174	0	2	1.2	123	PASS
174	95	50	120	77.4	10491	PASS
175	174	5	9	8.4	877	PASS
176	174	95	101	97.2	10193	PASS
177	176	5	9	6.1	618	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	KWG1004880-2	J:\MS24\DATA\052510\0525F004.D	05/25/2010	10:34	
Lab Control Sample	KWG1004900-3	J:\MS24\DATA\052510\0525F005.D	05/25/2010	11:14	
Duplicate Lab Control Sample	KWG1004900-4	J:\MS24\DATA\052510\0525F006.D	05/25/2010	11:35	
Method Blank	KWG1004900-5	J:\MS24\DATA\052510\0525F009.D	05/25/2010	12:39	
D-4-16	K1005244-003	J:\MS24\DATA\052510\0525F012.D	05/25/2010	13:42	
D-4-16MS	KWG1004900-1	J:\MS24\DATA\052510\0525F013.D	05/25/2010	14:40	
D-4-16DMS	KWG1004900-2	J:\MS24\DATA\052510\0525F014.D	05/25/2010	15:01	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Exception Report

Data File: J:\MS24\DATA\052510\0525F002.D
Lab ID: KWG1004880-1
RunType: BFB
Matrix: SOIL

Date Acquired: 05/25/2010 08:42
Date Quantitated:
Batch ID: KWG1004880
Analysis Method: BFB
ListJoinID: LJ774

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Ion Ratio	NA	NA	NA	x	

Primary Review: KL 5/25/10

Secondary Review: Comm 5/25/10

Quantitation Report

Bottle ID:	Tier:	Matrix:	SOIL
Prod Code: 8260B	Collect Date:	Receive Date:	05/25/2010
Analysis Lot: KWG1004880		Report Group:	
Analysis Method: BFB		Prep Lot:	
Prep Ref:		Prep Method:	
Prep Date:		Calibration ID: CAL9404	
Quant Method: J:\MS24\METHODS\042110MS24SO		Report List ID: LJ774	
Title: GC/MS Tuning Evaluation		Method ID: MJ159	
Tune Ref:		Quant based on Report List	
MB Ref:			
Data File: J:\MS24\DATA\052510\0525F002.D	Instrument:	MS24	
Acqu Date: 05/25/2010 08:42	Quant Date:	Vial:	2
Run Type: BFB		Dilution:	1.0
Lab ID: KWG1004880-1		Soln Conc. Units:	

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	24.2	3284	Pass
75	95	30	60	55.9	7570	Pass
95	95	100	100	100.0	13552	Pass
96	95	5	9	8.7	1182	Pass
173	174	0	2	1.2	123	Pass
174	95	50	120	77.4	10491	Pass
175	174	5	9	8.4	877	Pass
176	174	95	101	97.2	10193	Pass
177	176	5	9	6.1	618	Pass

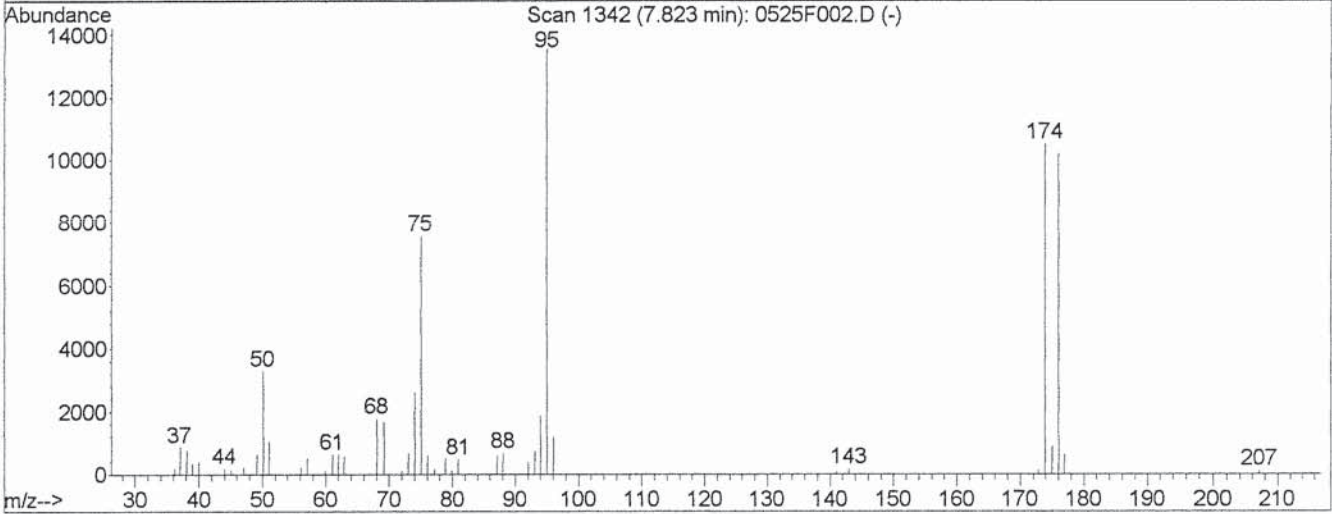
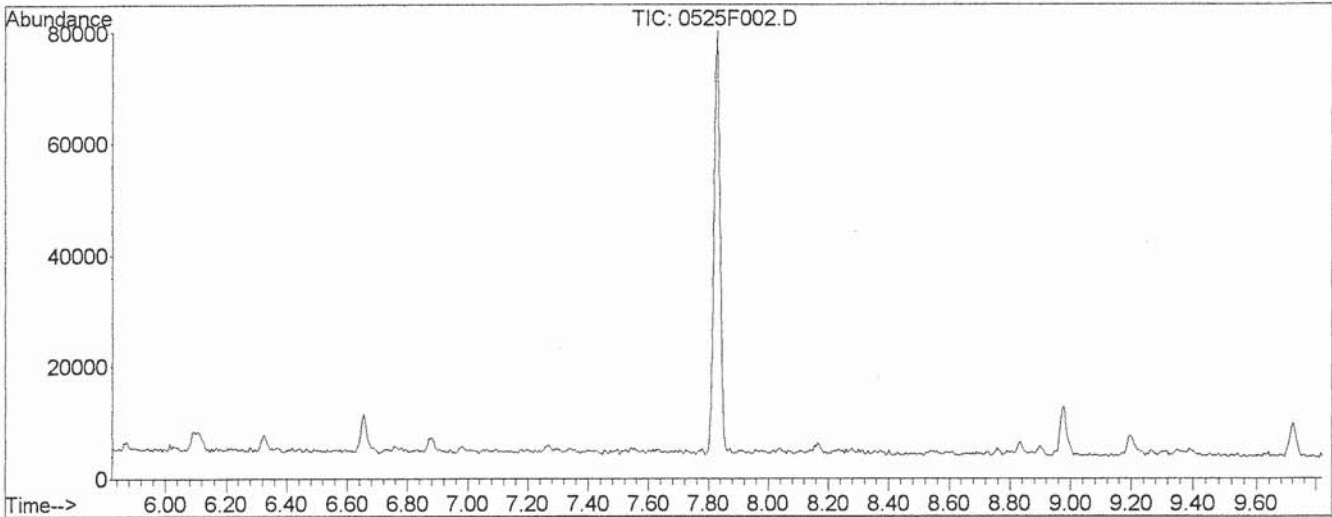
U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File : J:\MS24\DATA\052510\0525F002.D
 Acq On : 25 May 2010 8:42 am
 Sample : BFB NEW TUNE
 Misc :
 MS Integration Params: rteint.p
 Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B

Vial: 2
 Operator: KR
 Inst : MS24
 Multiplr: 1.00



Spectrum Information: Scan 1342 *left of gap - 1335 scan for 5/25/10*

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.2	3284	PASS
75	95	30	60	55.9	7570	PASS
95	95	100	100	100.0	13552	PASS
96	95	5	9	8.7	1182	PASS
173	174	0.00	2	1.2	123	PASS
174	95	50	120	77.4	10491	PASS
175	174	5	9	8.4	877	PASS
176	174	95	101	97.2	10193	PASS
177	176	5	9	6.1	618	PASS

Handwritten notes:
 Cumulative
 5/25/10

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS24\DATA\042110\0421F005.D	F	J:\MS24\DATA\042110\0421F010.D
B	J:\MS24\DATA\042110\0421F006.D	G	J:\MS24\DATA\042110\0421F011.D
C	J:\MS24\DATA\042110\0421F007.D	H	J:\MS24\DATA\042110\0421F012.D
D	J:\MS24\DATA\042110\0421F008.D	I	J:\MS24\DATA\042110\0421F013.D
E	J:\MS24\DATA\042110\0421F009.D		

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF			
Dichlorodifluoromethane				B	2.0	0.330	C	5.0	0.312	D	10	0.299	E	20	0.321
	F	50	0.282	G	100	0.308	H	200	0.331	I	300	0.286			
† Chloromethane	A	1.0	0.506	B	2.0	0.397	C	5.0	0.378	D	10	0.369	E	20	0.379
‡	F	50	0.350	G	100	0.385	H	200	0.404	I	300	0.354			
‡ Vinyl Chloride				B	2.0	0.364	C	5.0	0.349	D	10	0.351	E	20	0.360
‡	F	50	0.319	G	100	0.350	H	200	0.366	I	300	0.318			
Bromomethane							C	5.0	0.324	D	10	0.293	E	20	0.297
	F	50	0.233	G	100	0.281	H	200	0.304						
Chloroethane							C	5.0	0.228	D	10	0.221	E	20	0.239
	F	50	0.209	G	100	0.231	H	200	0.242	I	300	0.214			
Trichlorofluoromethane				B	2.0	0.487	C	5.0	0.472	D	10	0.476	E	20	0.506
	F	50	0.431	G	100	0.481	H	200	0.518	I	300	0.458			
† 1,1-Dichloroethene				B	2.0	0.244	C	5.0	0.199	D	10	0.203	E	20	0.219
‡	F	50	0.191	G	100	0.205	H	200	0.225	I	300	0.193			
Acetone										D	20	0.150	E	40	0.118
	F	100	0.108	G	200	0.107	H	400	0.115	I	600	0.101			
Carbon Disulfide	A	1.0	0.905	B	2.0	0.781	C	5.0	0.761	D	10	0.786	E	20	0.855
	F	50	0.742	G	100	0.847	H	200	0.923	I	300	0.826			
Methylene Chloride							C	5.0	0.322	D	10	0.295	E	20	0.319
	F	50	0.283	G	100	0.299	H	200	0.310	I	300	0.279			
trans-1,2-Dichloroethene	A	1.0	0.310	B	2.0	0.263	C	5.0	0.250	D	10	0.245	E	20	0.261
	F	50	0.236	G	100	0.261	H	200	0.282	I	300	0.254			
† 1,1-Dichloroethane	A	1.0	0.555	B	2.0	0.546	C	5.0	0.477	D	10	0.496	E	20	0.523
‡	F	50	0.475	G	100	0.529	H	200	0.566	I	300	0.496			
2,2-Dichloropropane							C	5.0	0.339	D	10	0.338	E	20	0.355
	F	50	0.333	G	100	0.370	H	200	0.404	I	300	0.347			
cis-1,2-Dichloroethene	A	1.0	0.307	B	2.0	0.290	C	5.0	0.271	D	10	0.275	E	20	0.297
	F	50	0.285	G	100	0.301	H	200	0.318	I	300	0.278			
2-Butanone (MEK)							C	10	0.0436	D	20	0.0374	E	40	0.0364
	F	100	0.0352	G	200	0.0360	H	400	0.0396	I	600	0.0339			

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
Bromochloromethane	F	50	0.138	G	100	0.149	C	5.0	0.135	D	10	0.136	E	20	0.144
‡ Chloroform	F	50	0.458	B	2.0	0.483	C	5.0	0.452	D	10	0.465	E	20	0.498
‡ 1,1,1-Trichloroethane (TCA)	F	50	0.343	G	100	0.387	H	200	0.550	C	5.0	0.360	D	10	0.359
Carbon Tetrachloride	F	50	0.287	G	100	0.327	H	200	0.414	I	300	0.373	E	20	0.390
1,1-Dichloropropene	A	1.0	0.359	B	2.0	0.334	C	5.0	0.302	D	10	0.327	E	20	0.354
Benzene	F	50	0.299	G	100	0.339	H	200	0.371	I	300	0.334	E	20	1.13
1,2-Dichloroethane (EDC)	A	1.0	0.435	B	2.0	0.416	C	5.0	0.979	D	10	1.01	E	20	1.13
Trichloroethene (TCE)	F	50	0.998	G	100	1.09	H	200	1.19	I	300	1.07	E	20	0.451
‡ 1,2-Dichloropropane	A	1.0	0.435	B	2.0	0.416	C	5.0	0.412	D	10	0.415	E	20	0.451
‡ Dibromomethane	F	50	0.415	G	100	0.442	H	200	0.472	I	300	0.431	E	20	0.300
Bromodichloromethane	A	1.0	0.304	B	2.0	0.298	C	5.0	0.265	D	10	0.257	E	20	0.300
cis-1,3-Dichloropropene	F	50	0.260	G	100	0.275	H	200	0.297	I	300	0.277	E	20	0.295
4-Methyl-2-pentanone (MIBK)	A	1.0	0.315	B	2.0	0.283	C	5.0	0.254	D	10	0.252	E	20	0.295
‡ Toluene	F	50	0.270	G	100	0.294	H	200	0.304	I	300	0.287	E	20	0.190
trans-1,3-Dichloropropene	F	50	0.174	G	100	0.186	H	200	0.189	I	300	0.179	E	20	0.368
1,1,2-Trichloroethane	F	50	0.345	G	100	0.384	H	200	0.400	I	300	0.385	E	20	0.408
Tetrachloroethene (PCE)	F	50	0.384	G	100	0.445	H	200	0.475	I	300	0.431	E	20	0.408
2-Hexanone	F	100	0.108	G	200	0.118	H	400	0.123	I	600	0.110	E	40	0.108
	F	50	0.601	B	2.0	0.664	C	5.0	0.579	D	10	0.599	E	20	0.693
	F	50	0.601	G	100	0.665	H	200	0.694	I	300	0.624	E	20	0.877
	F	50	0.809	G	100	0.868	H	200	0.964	I	300	0.932	E	20	0.558
	F	50	0.482	G	100	0.491	H	200	0.522	I	300	0.485	E	20	0.537
	F	50	0.448	G	100	0.459	H	200	0.506	I	300	0.463	E	20	0.537
	F	100	0.0845	B	4.0	0.0963	C	10	0.0808	D	20	0.0774	E	40	0.0846
	F	100	0.0845	G	200	0.0884	H	400	0.0973	I	600	0.0901	E	40	0.0846

Results flagged with an asterisk (*) indicate values outside control criteria.

‡ SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
1,3-Dichloropropane	A	1.0	0.986	B	2.0	1.19	C	5.0	0.953	D	10	0.965	E	20	1.13
	F	50	0.984	G	100	1.02	H	200	1.06	I	300	0.993			
Dibromochloromethane							C	5.0	0.499	D	10	0.485	E	20	0.579
	F	50	0.554	G	100	0.620	H	200	0.674	I	300	0.644			
1,2-Dibromoethane (EDB)				B	2.0	0.622	C	5.0	0.506	D	10	0.527	E	20	0.591
	F	50	0.544	G	100	0.562	H	200	0.613	I	300	0.561			
† Chlorobenzene	A	1.0	1.72	B	2.0	1.94	C	5.0	1.61	D	10	1.62	E	20	1.81
	F	50	1.63	G	100	1.73	H	200	1.82	I	300	1.65			
† Ethylbenzene				B	2.0	0.821	C	5.0	0.768	D	10	0.802	E	20	0.903
	F	50	0.795	G	100	0.845	H	200	0.936	I	300	0.855			
1,1,1,2-Tetrachloroethane							C	5.0	0.508	D	10	0.502	E	20	0.583
	F	50	0.545	G	100	0.582	H	200	0.663	I	300	0.603			
m,p-Xylenes	A	2.0	0.859	B	4.0	0.949	C	10	0.876	D	20	0.925	E	40	1.07
	F	100	0.985	G	200	1.06	H	400	1.15	I	600	1.04			
o-Xylene							C	5.0	0.883	D	10	0.912	E	20	1.03
	F	50	0.948	G	100	1.06	H	200	1.10	I	300	1.02			
Styrene							C	5.0	0.662	D	10	0.652	E	20	0.804
	F	50	0.776	G	100	0.842	H	200	0.887	I	300	0.837			
† Bromoform							C	5.0	0.286	D	10	0.283	E	20	0.339
	F	50	0.354	G	100	0.381	H	200	0.417	I	300	0.403			
Isopropylbenzene							C	5.0	2.05	D	10	2.22	E	20	2.52
	F	50	2.46	G	100	2.48	H	200	2.68	I	300	2.40			
† 1,1,2,2-Tetrachloroethane				B	2.0	0.939	C	5.0	0.706	D	10	0.625	E	20	0.735
	F	50	0.684	G	100	0.692	H	200	0.754	I	300	0.688			
Bromobenzene	A	1.0	0.742	B	2.0	0.959	C	5.0	0.715	D	10	0.664	E	20	0.825
	F	50	0.763	G	100	0.780	H	200	0.839	I	300	0.779			
n-Propylbenzene							C	5.0	2.69	D	10	2.78	E	20	3.44
	F	50	3.22	G	100	3.31	H	200	3.67	I	300	3.32			
1,2,3-Trichloropropane	A	1.0	0.278	B	2.0	0.354	C	5.0	0.305	D	10	0.249	E	20	0.277
	F	50	0.257	G	100	0.250	H	200	0.271	I	300	0.249			
2-Chlorotoluene				B	2.0	2.18	C	5.0	1.78	D	10	1.77	E	20	2.16
	F	50	1.98	G	100	2.01	H	200	2.18	I	300	2.01			
1,3,5-Trimethylbenzene							C	5.0	1.94	D	10	1.89	E	20	2.42
	F	50	2.27	G	100	2.34	H	200	2.55	I	300	2.34			
4-Chlorotoluene				B	2.0	2.23	C	5.0	1.81	D	10	1.76	E	20	2.13
	F	50	2.02	G	100	2.08	H	200	2.21	I	300	1.99			

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
tert-Butylbenzene	F	50	1.96	G	100	2.06	C	5.0	1.75	D	10	1.68	E	20	2.09
							H	200	2.20	I	300	2.06			
1,2,4-Trimethylbenzene	F	50	2.31	G	100	2.45	C	5.0	1.95	D	10	1.86	E	20	2.47
							H	200	2.60	I	300	2.47			
sec-Butylbenzene	F	50	2.87	G	100	3.08	C	5.0	2.47	D	10	2.58	E	20	3.24
							H	200	3.26	I	300	3.06			
4-Isopropyltoluene	F	50	2.40	G	100	2.52	C	5.0	2.07	D	10	2.16	E	20	2.69
							H	200	2.74	I	300	2.57			
1,3-Dichlorobenzene	A	1.0	1.28	B	2.0	1.69	C	5.0	1.38	D	10	1.31	E	20	1.55
	F	50	1.41	G	100	1.43	H	200	1.53	I	300	1.45			
1,4-Dichlorobenzene	A	1.0	1.49	B	2.0	1.70	C	5.0	1.45	D	10	1.37	E	20	1.62
	F	50	1.41	G	100	1.47	H	200	1.53	I	300	1.45			
n-Butylbenzene	F	50	2.09	G	100	2.27	C	5.0	1.79	D	10	1.92	E	20	2.36
							H	200	2.43	I	300	2.29			
1,2-Dichlorobenzene	A	1.0	1.30	B	2.0	1.42	C	5.0	1.38	D	10	1.30	E	20	1.64
	F	50	1.39	G	100	1.44	H	200	1.51	I	300	1.42			
1,2-Dibromo-3-chloropropane	F	50	0.0940	B	2.0	0.0926	C	5.0	0.115	D	10	0.0877	E	20	0.119
				G	100	0.0982	H	200	0.131	I	300	0.133			
1,2,4-Trichlorobenzene	F	50	0.687	G	100	0.884	C	5.0	0.911	D	10	0.837	E	20	1.01
							H	200	1.07						
Hexachlorobutadiene	A	1.0	0.471	B	2.0	0.357	C	5.0	0.502	D	10	0.497	E	20	0.583
	F	50	0.356	G	100	0.380	H	200	0.592	I	300	0.319			
Naphthalene	F	50	1.73	G	100	2.16	C	5.0	2.01	D	10	1.89	E	20	2.31
							H	200	2.69	I	300	1.70			
1,2,3-Trichlorobenzene	F	50	0.688	G	100	0.645	C	5.0	0.732	D	10	0.848	E	20	1.05
							H	200	1.07						
Dibromofluoromethane	F	50	0.240	B	10	0.230	C	20	0.256	D	30	0.248	E	40	0.256
				G	70	0.257	H	80	0.265	I	100	0.248			
Toluene-d8	F	50	0.844	B	10	0.728	C	20	0.885	D	30	0.845	E	40	0.927
				G	70	0.939	H	80	0.958	I	100	0.887			
4-Bromofluorobenzene	F	50	0.808	B	10	0.690	C	20	0.767	D	30	0.720	E	40	0.795
				G	70	0.764	H	80	0.813	I	100	0.782			

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† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Dichlorodifluoromethane	TRG	AverageRF	% RSD	6.1		≤ 15	0.309		0.01
† Chloromethane	TRG	AverageRF	% RSD	11.9		≤ 15	0.391		0.10
‡ Vinyl Chloride	MS	AverageRF	% RSD	5.4		≤ 15	0.347		0.01
Bromomethane	TRG	AverageRF	% RSD	10.6		≤ 15	0.289		0.01
Chloroethane	TRG	AverageRF	% RSD	5.5		≤ 15	0.226		0.01
Trichlorofluoromethane	TRG	AverageRF	% RSD	5.7		≤ 15	0.479		0.01
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	8.7		≤ 15	0.210		0.01
Acetone	TRG	AverageRF	% RSD	15.1	*	≤ 15	0.116		0.01
Carbon Disulfide	TRG	AverageRF	% RSD	7.6		≤ 15	0.825		0.01
Methylene Chloride	TRG	AverageRF	% RSD	5.7		≤ 15	0.301		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	8.4		≤ 15	0.263		0.01
† 1,1-Dichloroethane	TRG	AverageRF	% RSD	6.5		≤ 15	0.518		0.10
2,2-Dichloropropane	TRG	AverageRF	% RSD	7.0		≤ 15	0.355		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	5.4		≤ 15	0.291		0.01
2-Butanone (MEK)	TRG	AverageRF	% RSD	8.7		≤ 15	0.0374		0.01
Bromochloromethane	TRG	AverageRF	% RSD	5.9		≤ 15	0.143		0.01
‡ Chloroform	MS	AverageRF	% RSD	6.6		≤ 15	0.489		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	6.0		≤ 15	0.373		0.01
Carbon Tetrachloride	MS	AverageRF	% RSD	7.7		≤ 15	0.321		0.01
1,1-Dichloropropene	TRG	AverageRF	% RSD	7.2		≤ 15	0.335		0.01
Benzene	MS	AverageRF	% RSD	6.5		≤ 15	1.07		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	4.7		≤ 15	0.432		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	6.6		≤ 15	0.282		0.01
‡ 1,2-Dichloropropane	TRG	AverageRF	% RSD	7.6		≤ 15	0.284		0.01
Dibromomethane	TRG	AverageRF	% RSD	5.2		≤ 15	0.179		0.01
Bromodichloromethane	MS	AverageRF	% RSD	10.1		≤ 15	0.358		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	14.4		≤ 15	0.399		0.01
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF	% RSD	9.4		≤ 15	0.109		0.01
‡ Toluene	MS	AverageRF	% RSD	7.0		≤ 15	0.640		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	14.2		≤ 15	0.828		0.01
1,1,2-Trichloroethane	MS	AverageRF	% RSD	8.2		≤ 15	0.518		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	6.9		≤ 15	0.491		0.01
2-Hexanone	MS	AverageRF	% RSD	8.0		≤ 15	0.0874		0.01
1,3-Dichloropropane	TRG	AverageRF	% RSD	7.9		≤ 15	1.03		0.01
Dibromochloromethane	TRG	AverageRF	% RSD	12.4		≤ 15	0.579		0.01
1,2-Dibromoethane (EDB)	TRG	AverageRF	% RSD	7.2		≤ 15	0.566		0.01
† Chlorobenzene	MS	AverageRF	% RSD	6.6		≤ 15	1.73		0.30
‡ Ethylbenzene	MS	AverageRF	% RSD	6.8		≤ 15	0.841		0.01
1,1,1,2-Tetrachloroethane	TRG	AverageRF	% RSD	9.9		≤ 15	0.570		0.01
m,p-Xylenes	TRG	AverageRF	% RSD	9.8		≤ 15	0.991		0.01
o-Xylene	TRG	AverageRF	% RSD	8.1		≤ 15	0.995		0.01
Styrene	TRG	AverageRF	% RSD	11.6		≤ 15	0.780		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9404
Instrument ID: MS24

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
† Bromoform	TRG	AverageRF	% RSD	15.1	*	≤ 15	0.352		0.10
Isopropylbenzene	TRG	AverageRF	% RSD	8.6		≤ 15	2.40		0.01
† 1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	12.9		≤ 15	0.728		0.30
Bromobenzene	TRG	AverageRF	% RSD	10.7		≤ 15	0.785		0.01
n-Propylbenzene	TRG	AverageRF	% RSD	10.9		≤ 15	3.20		0.01
1,2,3-Trichloropropane	MS	AverageRF	% RSD	12.4		≤ 15	0.277		0.01
2-Chlorotoluene	MS	AverageRF	% RSD	8.3		≤ 15	2.01		0.01
1,3,5-Trimethylbenzene	TRG	AverageRF	% RSD	10.8		≤ 15	2.25		0.01
4-Chlorotoluene	TRG	AverageRF	% RSD	8.5		≤ 15	2.03		0.01
tert-Butylbenzene	TRG	AverageRF	% RSD	9.6		≤ 15	1.97		0.01
1,2,4-Trimethylbenzene	TRG	AverageRF	% RSD	12.4		≤ 15	2.30		0.01
sec-Butylbenzene	TRG	AverageRF	% RSD	10.6		≤ 15	2.94		0.01
4-Isopropyltoluene	TRG	AverageRF	% RSD	10.4		≤ 15	2.45		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	8.8		≤ 15	1.45		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	6.9		≤ 15	1.50		0.01
n-Butylbenzene	TRG	AverageRF	% RSD	11.1		≤ 15	2.17		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	7.3		≤ 15	1.42		0.01
1,2-Dibromo-3-chloropropane	TRG	AverageRF	% RSD	16.5	*	≤ 15	0.109		0.01
1,2,4-Trichlorobenzene	TRG	AverageRF	% RSD	15.1	*	≤ 15	0.901		0.01
Hexachlorobutadiene	TRG	AverageRF	% RSD	22.5	*	≤ 15	0.451		0.01
Naphthalene	MS	AverageRF	% RSD	17.0	*	≤ 15	2.07		0.01
1,2,3-Trichlorobenzene	TRG	AverageRF	% RSD	22.0	*	≤ 15	0.839		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	4.4		≤ 15	0.250		0.01
Toluene-d8	SURR	AverageRF	% RSD	8.3		≤ 15	0.877		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	5.6		≤ 15	0.767		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010
Date Analyzed: 04/21/2010

**Second Source Calibration Verification
 Volatile Organic Compounds**

Calibration Type: Internal Standard
Analysis Method: 8260B

Calibration ID: CAL9404
Units: PPB

File ID: J:\MS24\DATA\042110\0421F017.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane	50	48	0.309	0.298	-4	NA	± 40 %	AverageRF
† Chloromethane	50	43	0.391	0.336	-14	NA	± 40 %	AverageRF
‡ Vinyl Chloride	50	46	0.347	0.319	-8	NA	± 20 %	AverageRF
Bromomethane	50	45	0.289	0.257	-11	NA	± 40 %	AverageRF
Chloroethane	50	41	0.226	0.188	-17	NA	± 40 %	AverageRF
Trichlorofluoromethane	50	42	0.479	0.404	-16	NA	± 30 %	AverageRF
‡ 1,1-Dichloroethene	50	51	0.210	0.214	2	NA	± 20 %	AverageRF
Acetone	250	210	0.116	0.0983	-16	NA	± 30 %	AverageRF
Carbon Disulfide	100	96	0.825	0.791	-4	NA	± 30 %	AverageRF
Methylene Chloride	50	46	0.301	0.275	-9	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	50	49	0.263	0.256	-3	NA	± 30 %	AverageRF
† 1,1-Dichloroethane	50	47	0.518	0.485	-6	NA	± 30 %	AverageRF
2,2-Dichloropropane	50	51	0.355	0.359	1	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	50	46	0.291	0.268	-8	NA	± 30 %	AverageRF
2-Butanone (MEK)	250	230	0.0374	0.0348	-7	NA	± 30 %	AverageRF
Bromochloromethane	50	48	0.143	0.137	-4	NA	± 30 %	AverageRF
‡ Chloroform	50	48	0.489	0.472	-3	NA	± 20 %	AverageRF
1,1,1-Trichloroethane (TCA)	50	51	0.373	0.380	2	NA	± 30 %	AverageRF
Carbon Tetrachloride	50	51	0.321	0.325	1	NA	± 30 %	AverageRF
1,1-Dichloropropene	50	48	0.335	0.321	-4	NA	± 30 %	AverageRF
Benzene	50	48	1.07	1.02	-4	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	50	47	0.432	0.407	-6	NA	± 30 %	AverageRF
Trichloroethene (TCE)	50	51	0.282	0.287	2	NA	± 30 %	AverageRF
‡ 1,2-Dichloropropane	50	50	0.284	0.282	-1	NA	± 20 %	AverageRF
Dibromomethane	50	50	0.179	0.178	0	NA	± 30 %	AverageRF
Bromodichloromethane	50	51	0.358	0.364	2	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	50	45	0.399	0.361	-10	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	250	250	0.109	0.108	-1	NA	± 30 %	AverageRF
‡ Toluene	50	50	0.640	0.634	-1	NA	± 20 %	AverageRF
trans-1,3-Dichloropropene	50	58	0.828	0.953	15	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	50	51	0.518	0.527	2	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	50	53	0.491	0.524	7	NA	± 30 %	AverageRF
2-Hexanone	250	260	0.0874	0.0904	3	NA	± 30 %	AverageRF
1,3-Dichloropropane	50	51	1.03	1.05	1	NA	± 30 %	AverageRF
Dibromochloromethane	50	51	0.579	0.591	2	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	50	52	0.566	0.591	5	NA	± 30 %	AverageRF
† Chlorobenzene	50	50	1.73	1.72	0	NA	± 30 %	AverageRF
‡ Ethylbenzene	50	53	0.841	0.897	7	NA	± 20 %	AverageRF
1,1,1,2-Tetrachloroethane	50	52	0.570	0.591	4	NA	± 30 %	AverageRF
m,p-Xylenes	100	110	0.991	1.11	12	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1005244
Calibration Date: 04/21/2010
Date Analyzed: 04/21/2010

**Second Source Calibration Verification
 Volatile Organic Compounds**

Calibration Type: Internal Standard
Analysis Method: 8260B

Calibration ID: CAL9404
Units: PPB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	50	54	0.995	1.08	8	NA	± 30 %	AverageRF
Styrene	50	54	0.780	0.848	9	NA	± 30 %	AverageRF
† Bromoform	50	54	0.352	0.383	9	NA	± 30 %	AverageRF
Isopropylbenzene	50	58	2.40	2.76	15	NA	± 30 %	AverageRF
† 1,1,2,2-Tetrachloroethane	50	47	0.728	0.686	-6	NA	± 30 %	AverageRF
Bromobenzene	50	47	0.785	0.734	-7	NA	± 30 %	AverageRF
n-Propylbenzene	50	52	3.20	3.32	4	NA	± 30 %	AverageRF
1,2,3-Trichloropropane	50	46	0.277	0.256	-7	NA	± 30 %	AverageRF
2-Chlorotoluene	50	51	2.01	2.04	2	NA	± 30 %	AverageRF
1,3,5-Trimethylbenzene	50	53	2.25	2.37	5	NA	± 30 %	AverageRF
4-Chlorotoluene	50	50	2.03	2.01	-1	NA	± 30 %	AverageRF
tert-Butylbenzene	50	53	1.97	2.09	6	NA	± 30 %	AverageRF
1,2,4-Trimethylbenzene	50	53	2.30	2.44	6	NA	± 30 %	AverageRF
sec-Butylbenzene	50	54	2.94	3.18	8	NA	± 30 %	AverageRF
4-Isopropyltoluene	50	56	2.45	2.73	12	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	50	52	1.45	1.52	5	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	50	51	1.50	1.54	2	NA	± 30 %	AverageRF
n-Butylbenzene	50	56	2.17	2.41	12	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	50	50	1.42	1.41	-1	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane	50	57	0.109	0.124	14	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	50	53	0.901	0.961	7	NA	± 30 %	AverageRF
Hexachlorobutadiene	50	59	0.451	0.536	19	NA	± 30 %	AverageRF
Naphthalene	50	54	2.07	2.22	7	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	50	60	0.839	0.999	19	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

INITIAL CALIBRATION CURVE

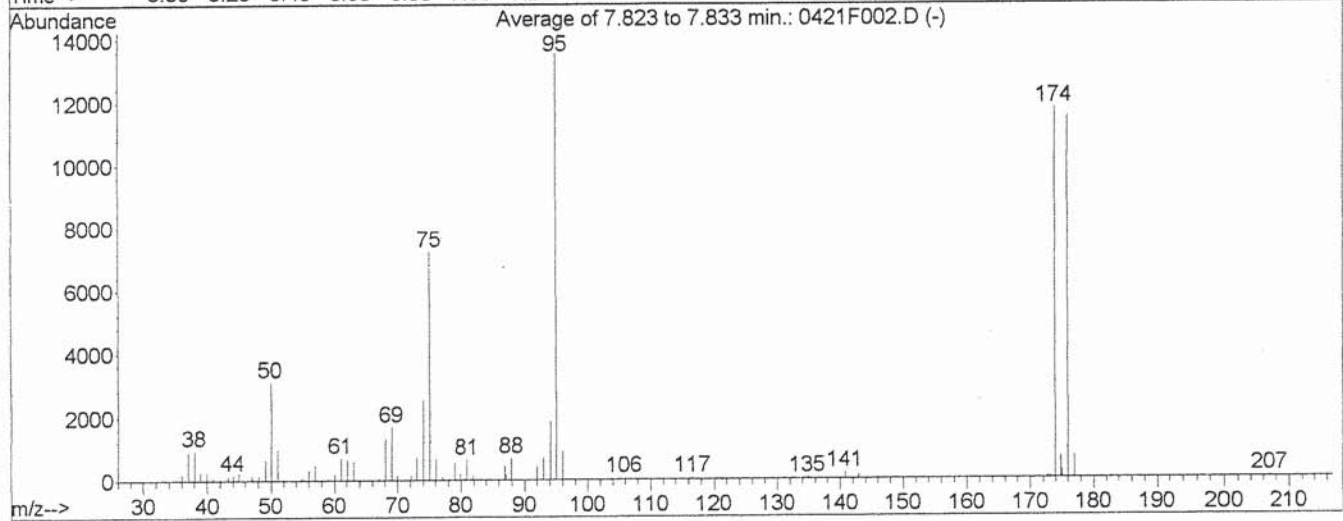
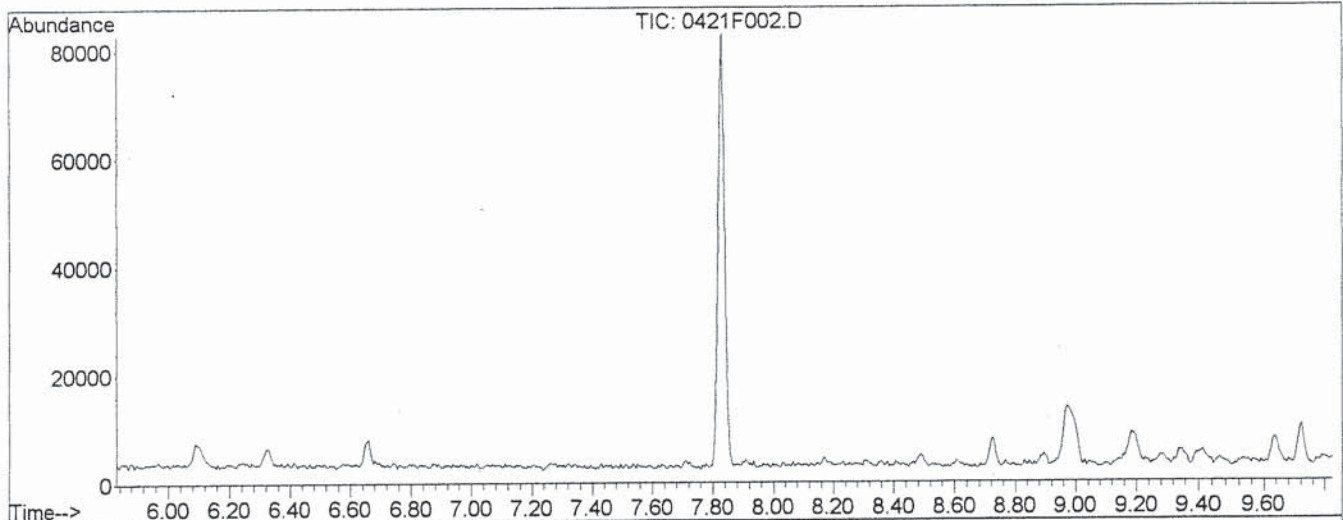
Date 4/24/10 Analysis 8260 soil Appendix _____
 Prepared By KL Instrument M524
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 Stock Solution #2 J 33A Analytes 8260 soil CCV mix Init. Concentr: 100/200/500
 Stock Solution #3 _____ Analytes Ethyl Acrylate Init. Concentration 1000
 Stock Solution #4 _____ Analytes _____

#	Aliquot of Stock Solution #1	Final Conc. of #1 (µg/L)	Aliquot of Stock Solution #2	Final Conc. of #2 (µg/L)	Aliquot of Stock Solution #3	Final Conc. of #3 (µg/L)	Aliquot of Stock Solution #4 (µL)	Final Conc. of #4 (µg/L)
1			0.5	1				
2	5	10	1	2				
3	10	20	2.5	5	0.5	10		
4	15	30	5	10	1	20		
5	20	40	10	20	2.5	50		
6	25	50	25	50	5	100		
7	35	70	50	100	10	200		
8	40	80	100	200	20	400		
9	50	100	150	300				

ICV std#: Restek ICV 31A 50uL 20F
 Oxygenates 25uL 20F
 Freon 21 25uL 20F
 Appx 20uL 220
 Acrolein 50uL 29F
 Ethyl Acrylate 2.5uL KL-1/24/10
 Ethyl Prop. Oxide 5uL KL-1/24/10

Data File : J:\MS24\DATA\042110\0421F002.D
 Acq On : 21 Apr 2010 9:48 am
 Sample : BFB
 Misc :
 MS Integration Params: rteint.p
 Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B

Vial: 3
 Operator: KR
 Inst : MS24
 Multiplr: 1.00



AutoFind: Scans 1342, 1343, 1344; Background Corrected with Scan 1335

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	3095	PASS
75	95	30	60	53.3	7226	PASS
95	95	100	100	100.0	13552	PASS
96	95	5	9	6.7	906	PASS
173	174	0.00	2	0.6	70	PASS
174	95	50	120	86.7	11746	PASS
175	174	5	9	5.9	698	PASS
176	174	95	101	97.8	11493	PASS
177	176	5	9	6.0	693	PASS

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Data File : J:\MS24\DATA\042110\0421F004.D
 Acq On : 21 Apr 2010 10:36 am
 Sample : IB
 Misc :

Vial: 6
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Apr 21 13:43:32 2010

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Thu Apr 01 15:44:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	4.02	96	300532	50.00	PPB	0.00
59) Chlorobenzene-d5	6.65	82	122711	50.00	PPB	0.00
80) 1,4-Dichlorobenzene-d4	8.98	152	105253	50.00	PPB	0.00
System Monitoring Compounds						
38) Dibromofluoromethane	0.00	113	0	0.00	PPB	
Spiked Amount						
			Recovery	=		0.00%
42) 1,2-Dichloroethane-d4	3.81	65	784	0.42	PPB	-0.01
Spiked Amount						
			Recovery	=		0.84%
57) Toluene-d8	5.31	98	1786	0.38	PPB	0.00
Spiked Amount						
			Recovery	=		0.76%
79) 4-Bromofluorobenzene	7.83	95	831	0.46	PPB	0.00
Spiked Amount						
			Recovery	=		0.92%
Target Compounds						
						Qvalue
13) Acetone	1.98	43	7387	9.48	PPB	95
18) Methylene Chloride	2.27	84	1568	0.98	PPB	80
19) tert-Butyl Alcohol	2.35	59	1686	6.58	PPB	95
58) Toluene	5.36	92	1474	0.40	PPB	# 67

Kr ykalo

QI/26/10

(#) = qualifier out of range (m) = manual integration

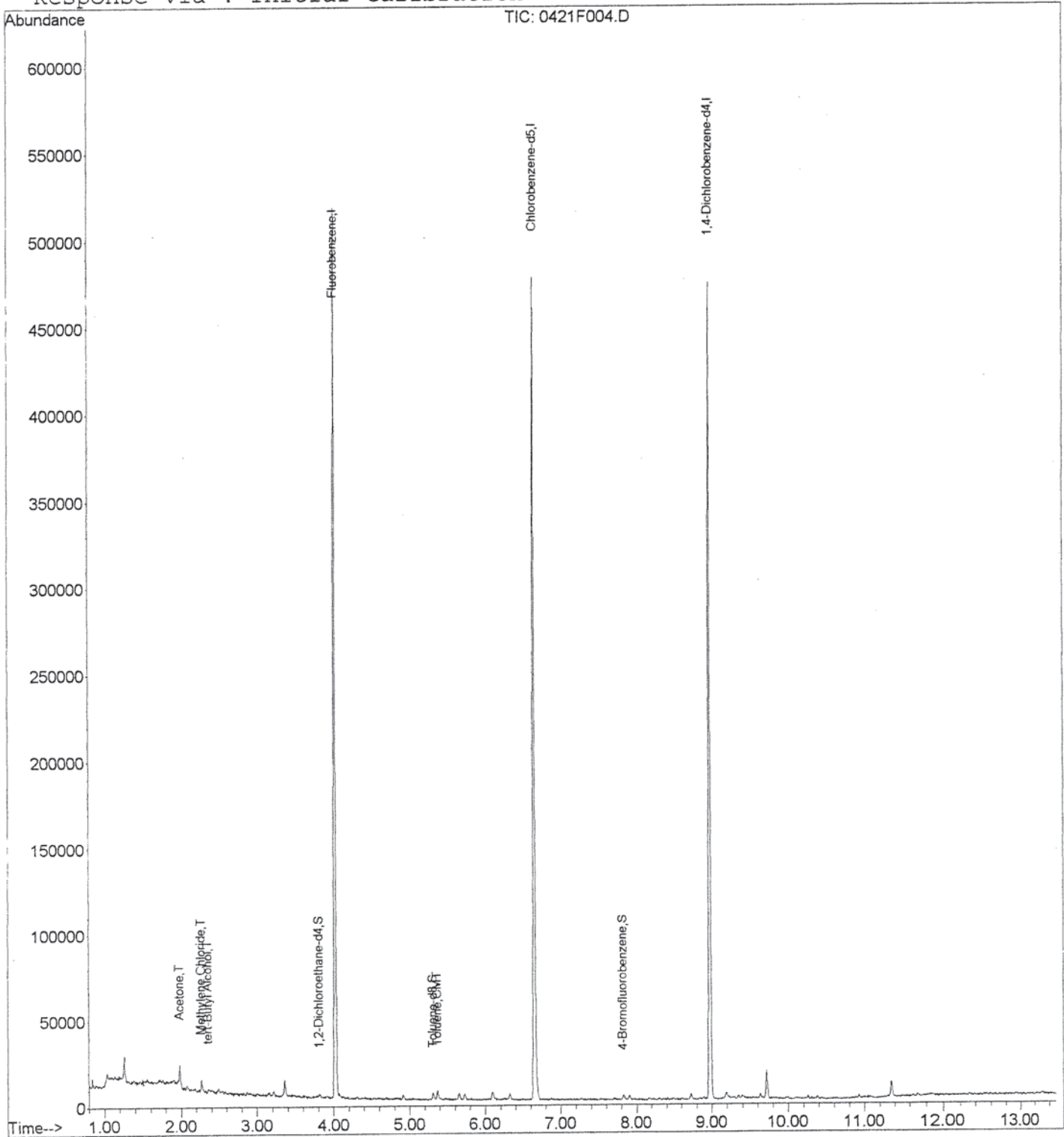
Quantitation Report (QT Reviewed)

Data File : J:\MS24\DATA\042110\0421F004.D
Acq On : 21 Apr 2010 10:36 am
Sample : IB
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 21 13:44 2010

Vial: 6
Operator: KR
Inst : MS24
Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
Title : VOA MS24 EPA Method 8260B
Last Update : Thu Apr 01 15:44:07 2010
Response via : Initial Calibration



Data File : J:\MS24\DATA\042110\0421F005.D
 Acq On : 21 Apr 2010 12:29 pm
 Sample : SOIL ICAL 1
 Misc :

Vial: 7
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Apr 21 13:53:05 2010

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

KR 4/21/10

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	4.02	96	323147	50.00	PPB	0.00
59) Chlorobenzene-d5	6.65	82	128828	50.00	PPB	0.00
80) 1,4-Dichlorobenzene-d4	8.98	152	114981	50.00	PPB	0.00

System Monitoring Compounds

38) Dibromofluoromethane	0.00	113	0	0.00	PPB	
Spiked Amount	50.000		Recovery	=	0.00%	
42) 1,2-Dichloroethane-d4	0.00	65	0d	0.00	PPB	
Spiked Amount	50.000		Recovery	=	0.00%	
57) Toluene-d8	0.00	98	0d	0.00	PPB	
Spiked Amount	50.000		Recovery	=	0.00%	
79) 4-Bromofluorobenzene	0.00	95	0d	0.00	PPB	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.86	85	2254	1.62	PPB	91
3) Chloromethane	0.99	50	3271	1.72	PPB	95
4) Vinyl Chloride	1.06	62	2660	1.43	PPB	93
5) Bromomethane	1.29	96	3186	2.61	PPB	84
6) Chloroethane	1.36	64	1719	1.48	PPB	75
7) Dichlorofluoromethane	1.52	67	3847	1.24	PPB	95
8) Trichlorofluoromethane	1.51	101	3200	1.16	PPB	92
9) Ethyl Ether	1.73	59	1901	1.26	PPB	96
10) Acrolein	1.87	56	2029	6.76	PPB	80
11) Trichlorotrifluoroethane	1.86	151	1215	1.07	PPB	88
12) 1,1-Dichloroethene	1.88	96	1932	1.61	PPB	# 75
13) Acetone	1.98	43	8541	10.20	PPB	100
14) Iodomethane	2.00	142	2202	16.21	PPB	98
15) Carbon Disulfide	2.01	76	5847	1.28	PPB	95
16) 3-Chloro-1-propene	2.15	76	1174	1.42	PPB	91
17) Acetonitrile	2.24	40	3399	24.31	PPB	# 86
18) Methylene Chloride	2.26	84	3837	2.23	PPB	88
19) tert-Butyl Alcohol	2.36	59	2997	10.88	PPB	84
20) Acrylonitrile	2.50	53	1742	2.64	PPB	85
21) Methyl tert-Butyl Ether	2.40	73	12089	2.44	PPB	94
22) trans-1,2-Dichloroethene	2.41	96	2005	1.36	PPB	# 76
23) Hexane	2.54	57	2720	1.33	PPB	88
24) Diisopropyl Ether	2.73	45	7163	1.36	PPB	91
25) 1,1-Dichloroethane	2.75	63	3584	1.27	PPB	95
27) Chloroprene	2.78	53	4786	2.22	PPB	91
28) tert-Butyl Ethyl Ether	2.99	59	5946	1.19	PPB	96
29) 2,2-Dichloropropane	3.15	77	2653	1.25	PPB	98

(#) = qualifier out of range (m) = manual integration

0421F005.D 042110MS24SOIL.M

Wed Apr 21 13:57:15 2010

Page 1

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Data File : J:\MS24\DATA\042110\0421F005.D
 Acq On : 21 Apr 2010 12:29 pm
 Sample : SOIL ICAL 1
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 13:53:05 2010

Vial: 7
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) cis-1,2-Dichloroethene	3.18	96	1984	1.20	PPB	84
31) 2-Butanone	3.22	72	982	4.22	PPB	# 53
33) Methacrylonitrile	3.40	67	1662	2.21	PPB	84
34) Bromochloromethane	3.36	128	1103	1.38	PPB	87
36) Chloroform	3.41	83	3354	1.18	PPB	98
37) 1,1,1-Trichloroethane	3.51	97	2725	1.20	PPB	90
39) Carbon Tetrachloride	3.59	117	2181	1.11	PPB	96
40) 1,1-Dichloropropene	3.62	75	2318	1.19	PPB	98
41) Isobutyl Alcohol	3.78	43	1822	19.79	PPB	95
43) Benzene	3.79	78	7110	1.19	PPB	98
44) 1,2-Dichloroethane	3.87	62	2813	1.20	PPB	94
45) tert-Amyl Methyl Ether	3.84	55	1790	1.46	PPB	86
46) Trichloroethene	4.29	95	1963	1.25	PPB	88
48) 1,2-Dichloropropane	4.52	63	2039	1.27	PPB	81
49) Dibromomethane	4.62	93	1224	1.21	PPB	91
50) Methyl methacrylate	4.60	69	1281	1.03	PPB	96
52) Bromodichloromethane	4.75	83	2436	1.13	PPB	98
53) 2-Nitropropane	5.03	41	1786	4.19	PPB	# 61
54) 2-Chloroethyl Vinyl Ether	5.02	63	1052	0.95	PPB	90
55) cis-1,3-Dichloropropene	5.13	75	2250	0.91	PPB	92
56) 4-Methyl-2-pentanone (MIBK)	5.27	58	1282	1.89	PPB	89
58) Toluene	5.37	92	4747	1.19	PPB	99
61) trans-1,3-Dichloropropene	5.65	75	1831	0.84	PPB	82
62) Ethyl methacrylate	5.67	69	1624	0.81	PPB	93
63) 1,1,2-Trichloroethane	5.80	83	1382	1.19	PPB	92
64) Tetrachloroethene	5.82	164	1304	1.08	PPB	86
66) 1,3-Dichloropropane	5.97	76	2540	1.08	PPB	87
67) Dibromochloromethane	6.13	129	1340	0.89	PPB	89
68) 1,2-Dibromoethane (EDB)	6.25	107	1317	0.96	PPB	86
69) 1-Chlorohexane	6.65	91	1954	1.04	PPB	76
70) Chlorobenzene	6.68	112	4444	1.09	PPB	83
71) Ethylbenzene	6.76	106	1803	0.84	PPB	89
72) 1,1,1,2-Tetrachloroethane	6.77	131	1499	1.02	PPB	87
73) m,p-Xylenes	6.87	106	4427	1.76	PPB	95
74) o-Xylene	7.27	106	2489	0.98	PPB	# 81
75) Styrene	7.30	103	1744	0.86	PPB	92
76) Bromoform	7.50	173	770	0.81	PPB	80
77) Isopropylbenzene	7.62	105	5114	0.82	PPB	92
81) 1,1,2,2-Tetrachloroethane	8.02	83	1511	0.97	PPB	68
83) Bromobenzene	7.96	156	1707	1.05	PPB	88
84) n-Propylbenzene	8.04	91	6555	0.92	PPB	98

(#) = qualifier out of range (m) = manual integration

0421F005.D 042110MS24SOIL.M Wed Apr 21 13:57:15 2010

Page 2

Data File : J:\MS24\DATA\042110\0421F005.D
 Acq On : 21 Apr 2010 12:29 pm
 Sample : SOIL ICAL 1
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 13:53:05 2010

Vial: 7
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,2,3-Trichloropropane	8.07	110	639	1.20	PPB	87
86) 2-Chlorotoluene	8.15	91	4420	1.05	PPB	91
87) 1,3,5-Trimethylbenzene	8.23	105	4698	0.94	PPB	94
88) 4-Chlorotoluene	8.27	91	4108	0.94	PPB	92
89) tert-Butylbenzene	8.54	119	3977	0.90	PPB	92
90) 1,2,4-Trimethylbenzene	8.60	105	4455	0.89	PPB	96
91) sec-Butylbenzene	8.76	105	5561	0.87	PPB	91
92) p-Isopropyltoluene	8.91	119	5066	0.95	PPB	97
93) 1,3-Dichlorobenzene	8.90	146	2933	1.01	PPB	89
94) 1,4-Dichlorobenzene	9.00	146	3426	1.13	PPB	97
95) n-Butylbenzene	9.31	91	4041	0.88	PPB	85
96) 1,2-Dichlorobenzene	9.36	146	3000	1.06	PPB	84
98) 1,3,5-Trichlorobenzene	10.27	180	2269	1.03	PPB	79
99) 1,2,4-Trichlorobenzene	10.85	180	1942	0.97	PPB	95
100) Hexachlorobutadiene	10.96	225	1083	0.94	PPB	88
101) Naphthalene	11.09	128	3928	0.77	PPB	96
102) 1,2,3-Trichlorobenzene	11.32	180	1620	0.88	PPB #	74

(#) = qualifier out of range (m) = manual integration

Data File : J:\MS24\DATA\042110\0421F006.D
 Acq On : 21 Apr 2010 12:50 pm
 Sample : SOIL ICAL 2
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 13:57:32 2010

Vial: 8
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

KR 4/21/10

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	4.02	96	338381	50.00	PPB	0.00
59) Chlorobenzene-d5	6.65	82	132058	50.00	PPB	0.00
80) 1,4-Dichlorobenzene-d4	8.98	152	117168	50.00	PPB	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	3.54	113	15547	10.26	PPB	0.00
Spiked Amount						
						Recovery = 20.52%
42) 1,2-Dichloroethane-d4	3.81	65	22688	10.82	PPB	0.00
Spiked Amount						
						Recovery = 21.64%
57) Toluene-d8	5.31	98	49280	9.21	PPB	0.00
Spiked Amount						
						Recovery = 18.42%
79) 4-Bromofluorobenzene	7.83	95	18220	9.28	PPB	0.00
Spiked Amount						
						Recovery = 18.56%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.86	85	4473	3.07	PPB	98
3) Chloromethane	0.99	50	5380	2.70	PPB	98
4) Vinyl Chloride	1.06	62	4926	2.53	PPB	99
5) Bromomethane	1.29	96	5054	3.95	PPB	97
6) Chloroethane	1.36	64	3462	2.85	PPB	94
7) Dichlorofluoromethane	1.52	67	7161	2.21	PPB	98
8) Trichlorofluoromethane	1.51	101	6585	2.29	PPB	98
9) Ethyl Ether	1.72	59	3686	2.34	PPB	93
10) Acrolein	1.87	56	3928	12.50	PPB	78
11) Trichlorotrifluoroethane	1.86	151	2545	2.14	PPB	97
12) 1,1-Dichloroethene	1.88	96	3308	2.63	PPB	99
13) Acetone	1.98	43	7645	8.72	PPB	95
14) Iodomethane	2.00	142	4065	17.26	PPB	86
15) Carbon Disulfide	2.01	76	10567	2.22	PPB	99
16) 3-Chloro-1-propene	2.16	76	2203	2.55	PPB	91
17) Acetonitrile	2.23	40	6438	43.98	PPB	# 96
18) Methylene Chloride	2.27	84	5104	2.83	PPB	92
19) tert-Butyl Alcohol	2.35	59	4047	14.03	PPB	96
20) Acrylonitrile	2.50	53	3346	4.85	PPB	89
21) Methyl tert-Butyl Ether	2.40	73	22676	4.37	PPB	97
22) trans-1,2-Dichloroethene	2.42	96	3563	2.31	PPB	92
23) Hexane	2.54	57	5227	2.45	PPB	98
24) Diisopropyl Ether	2.74	45	13145	2.38	PPB	95
25) 1,1-Dichloroethane	2.75	63	7386	2.49	PPB	92
26) Vinyl Acetate	2.78	86	648	2.00	PPB	# 90
27) Chloroprene	2.78	53	8948	3.96	PPB	96
28) tert-Butyl Ethyl Ether	2.99	59	11340	2.16	PPB	92

(#) = qualifier out of range (m) = manual integration

4/26/10

Data File : J:\MS24\DATA\042110\0421F006.D
 Acq On : 21 Apr 2010 12:50 pm
 Sample : SOIL ICAL 2
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 13:57:32 2010

Vial: 8
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	3.15	77	4678	2.10	PPB	94
30) cis-1,2-Dichloroethene	3.17	96	3922	2.26	PPB	92
31) 2-Butanone	3.21	72	1413	5.80	PPB	# 68
32) Propionitrile	3.32	54	1578	5.39	PPB	87
33) Methacrylonitrile	3.40	67	3335	4.24	PPB	88
34) Bromochloromethane	3.36	128	1894	2.27	PPB	90
36) Chloroform	3.41	83	6542	2.21	PPB	95
37) 1,1,1-Trichloroethane	3.51	97	4883	2.05	PPB	98
39) Carbon Tetrachloride	3.60	117	4026	1.96	PPB	88
40) 1,1-Dichloropropene	3.63	75	4522	2.22	PPB	91
41) Isobutyl Alcohol	3.78	43	4237	43.95	PPB	94
43) Benzene	3.79	78	13820	2.21	PPB	92
44) 1,2-Dichloroethane	3.87	62	5633	2.29	PPB	96
45) tert-Amyl Methyl Ether	3.84	55	3288	2.56	PPB	# 78
46) Trichloroethene	4.29	95	4036	2.46	PPB	93
48) 1,2-Dichloropropane	4.53	63	3827	2.28	PPB	90
49) Dibromomethane	4.62	93	2314	2.19	PPB	96
50) Methyl methacrylate	4.60	69	2707	2.08	PPB	95
51) 1,4-Dioxane	4.62	88	1169	43.31	PPB	90
52) Bromodichloromethane	4.75	83	4204	1.86	PPB	91
53) 2-Nitropropane	5.02	41	2926	6.56	PPB	89
54) 2-Chloroethyl Vinyl Ether	5.02	63	2309	1.98	PPB	92
55) cis-1,3-Dichloropropene	5.13	75	4438	1.71	PPB	94
56) 4-Methyl-2-pentanone (MIBK)	5.27	58	3195	4.50	PPB	# 73
58) Toluene	5.36	92	8985	2.15	PPB	98
61) trans-1,3-Dichloropropene	5.64	75	4320	1.94	PPB	95
62) Ethyl methacrylate	5.67	69	3992	1.94	PPB	91
63) 1,1,2-Trichloroethane	5.81	83	3187	2.67	PPB	93
64) Tetrachloroethene	5.81	164	2858	2.30	PPB	85
65) 2-Hexanone	6.02	57	1017	4.42	PPB	# 61
66) 1,3-Dichloropropane	5.97	76	6308	2.62	PPB	93
67) Dibromochloromethane	6.13	129	3292	2.13	PPB	97
68) 1,2-Dibromoethane (EDB)	6.25	107	3286	2.34	PPB	91
69) 1-Chlorohexane	6.64	91	4006	2.07	PPB	82
70) Chlorobenzene	6.69	112	10264	2.46	PPB	92
71) Ethylbenzene	6.76	106	4337	1.97	PPB	# 73
72) 1,1,1,2-Tetrachloroethane	6.77	131	3398	2.27	PPB	91
73) m,p-Xylenes	6.88	106	10030	3.88	PPB	89
74) o-Xylene	7.27	106	5287	2.02	PPB	93
75) Styrene	7.30	103	3780m	1.82	PPB	
76) Bromoform	7.51	173	1922	1.96	PPB	88

(#) = qualifier out of range (m) = manual integration

0421F006.D 042110MS24SOIL.M Wed Apr 21 13:59:51 2010

Page 2

Data File : J:\MS24\DATA\042110\0421F006.D
 Acq On : 21 Apr 2010 12:50 pm
 Sample : SOIL ICAL 2
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 13:57:32 2010

Vial: 8
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) Isopropylbenzene	7.63	105	11760	1.85	PPB	94
78) cis-1,4-Dichloro-2-butene	7.79	89	630	3.43	PPB	90
81) 1,1,2,2-Tetrachloroethane	8.03	83	4403	2.77	PPB	98
82) trans-1,4-Dichloro-2-buten	8.10	53	1026	2.63	PPB	75
83) Bromobenzene	7.96	156	4495	2.70	PPB	89
84) n-Propylbenzene	8.04	91	14655	2.02	PPB	97
85) 1,2,3-Trichloropropane	8.07	110	1658	3.06	PPB	# 40
86) 2-Chlorotoluene	8.15	91	10214	2.38	PPB	94
87) 1,3,5-Trimethylbenzene	8.23	105	10604	2.09	PPB	99
88) 4-Chlorotoluene	8.27	91	10443	2.35	PPB	92
89) tert-Butylbenzene	8.54	119	10169	2.26	PPB	97
90) 1,2,4-Trimethylbenzene	8.61	105	10047	1.96	PPB	90
91) sec-Butylbenzene	8.76	105	13324	2.05	PPB	99
92) p-Isopropyltoluene	8.91	119	10662	1.96	PPB	97
93) 1,3-Dichlorobenzene	8.90	146	7905	2.67	PPB	97
94) 1,4-Dichlorobenzene	9.00	146	7975	2.59	PPB	95
95) n-Butylbenzene	9.31	91	8129	1.73	PPB	97
96) 1,2-Dichlorobenzene	9.36	146	6672	2.31	PPB	87
97) 1,2-Dibromo-3-chloropropan	10.14	155	434m	1.46	PPB	
98) 1,3,5-Trichlorobenzene	10.26	180	4524	2.02	PPB	86
99) 1,2,4-Trichlorobenzene	10.86	180	3374	1.65	PPB	84
100) Hexachlorobutadiene	10.96	225	1675	1.43	PPB	99
101) Naphthalene	11.09	128	7922	1.53	PPB	97
102) 1,2,3-Trichlorobenzene	11.32	180	3809	2.04	PPB	84

(#) = qualifier out of range (m) = manual integration

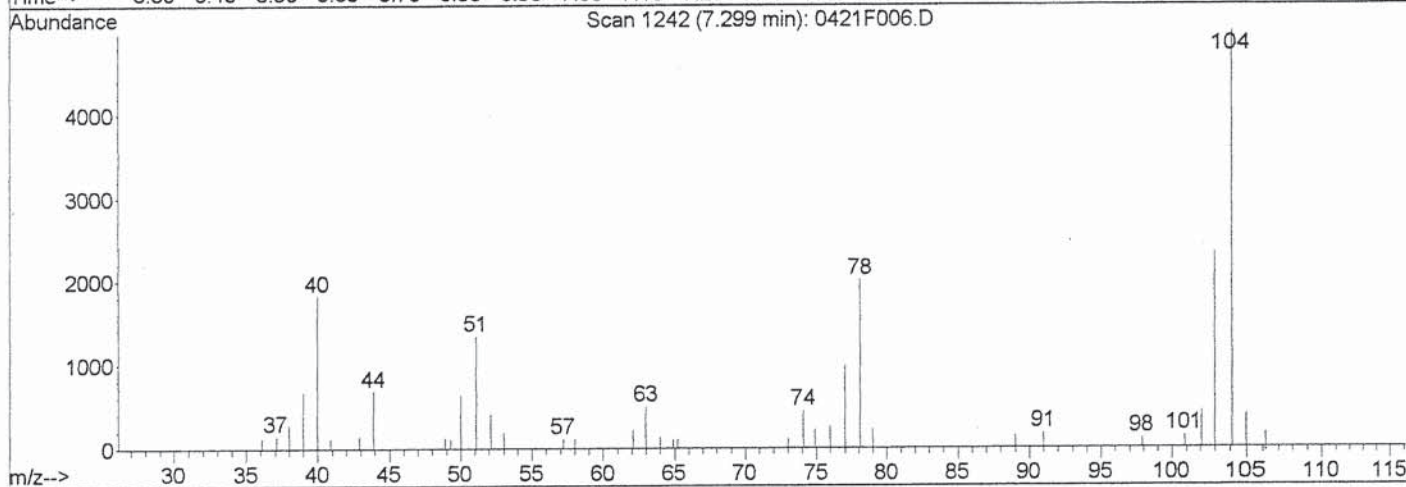
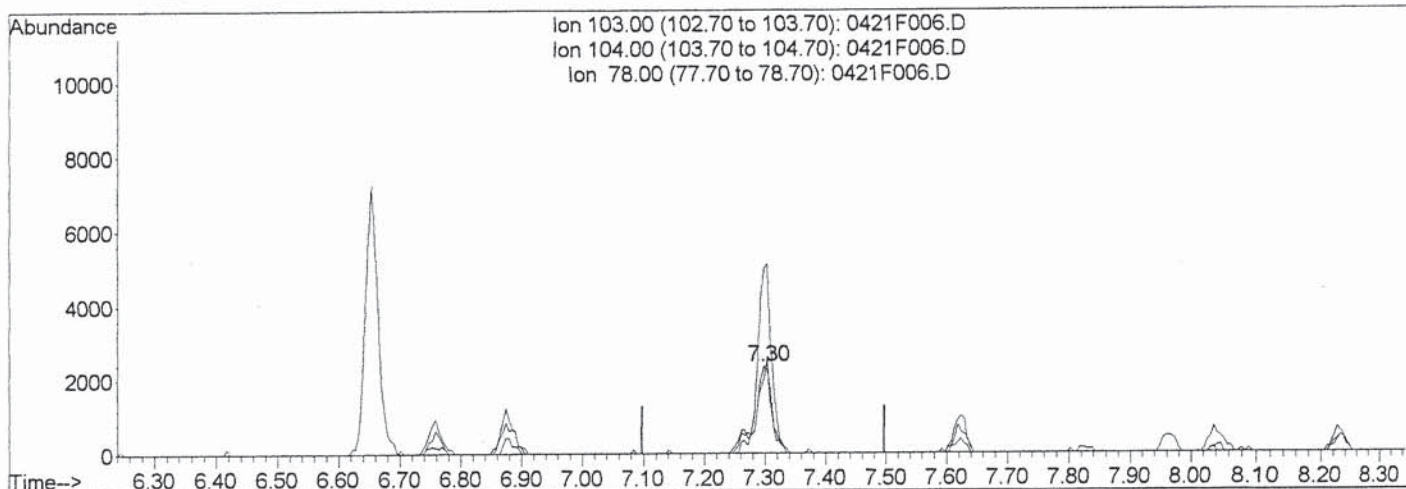
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F006.D
 Acq On : 21 Apr 2010 12:50 pm
 Sample : SOIL ICAL 2
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 13:58 2010

Vial: 8
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Single Level Calibration



TIC: 0421F006.D

(75) Styrene (T)

7.30min 2.18PPB

response 4525

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	213.40
78.00	90.20	85.96
0.00	0.00	0.00

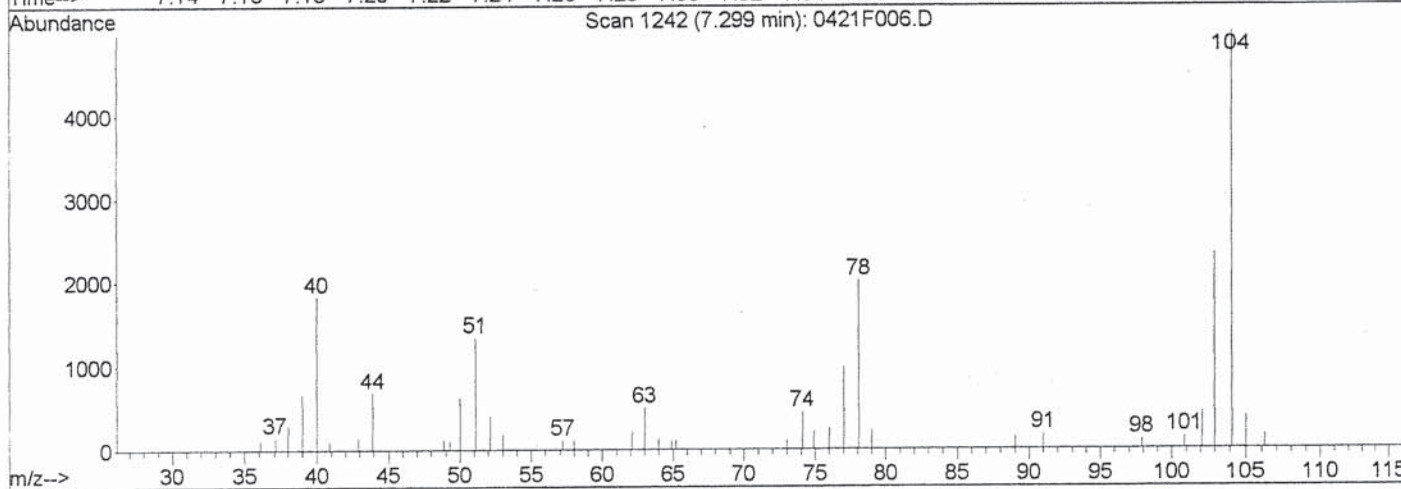
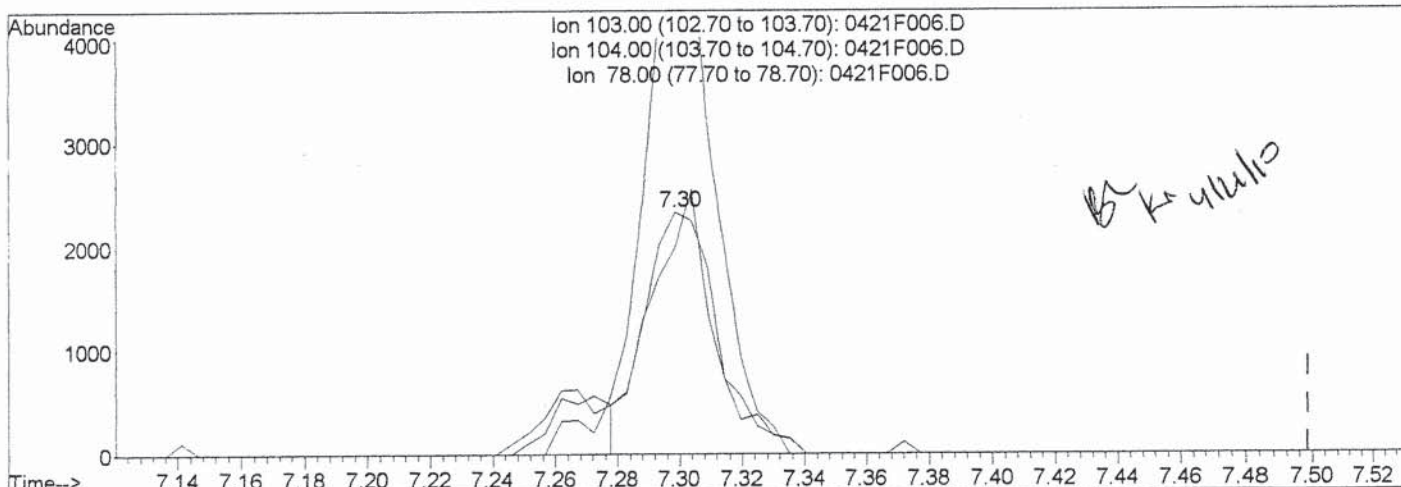
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F006.D
 Acq On : 21 Apr 2010 12:50 pm
 Sample : SOIL ICAL 2
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 13:58 2010

Vial: 8
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Single Level Calibration



TIC: 0421F006.D

(75) Styrene (T)
 7.30min 1.82PPB m
 response 3780

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	213.40
78.00	90.20	85.96
0.00	0.00	0.00

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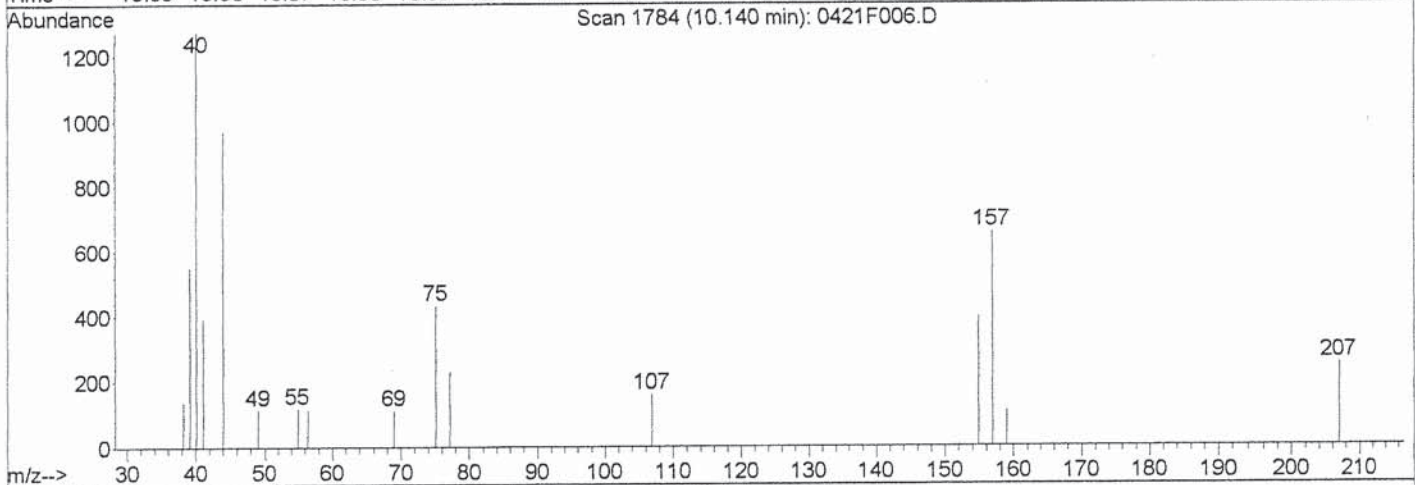
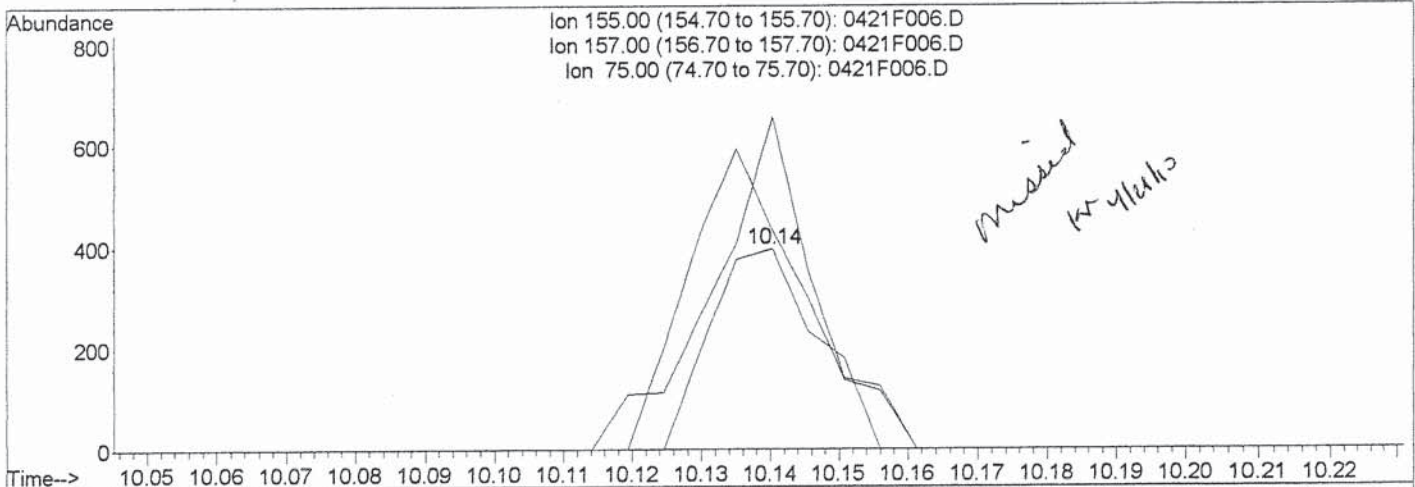
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F006.D
 Acq On : 21 Apr 2010 12:50 pm
 Sample : SOIL ICAL 2
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 13:59 2010

Vial: 8
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Single Level Calibration



TIC: 0421F006.D

(97) 1,2-Dibromo-3-chloropropane (DBCP) (T)

10.14min 1.46PPB m

response 434

Ion	Exp%	Act%
155.00	100	100
157.00	109.90	165.91#
75.00	94.00	109.09
0.00	0.00	0.00

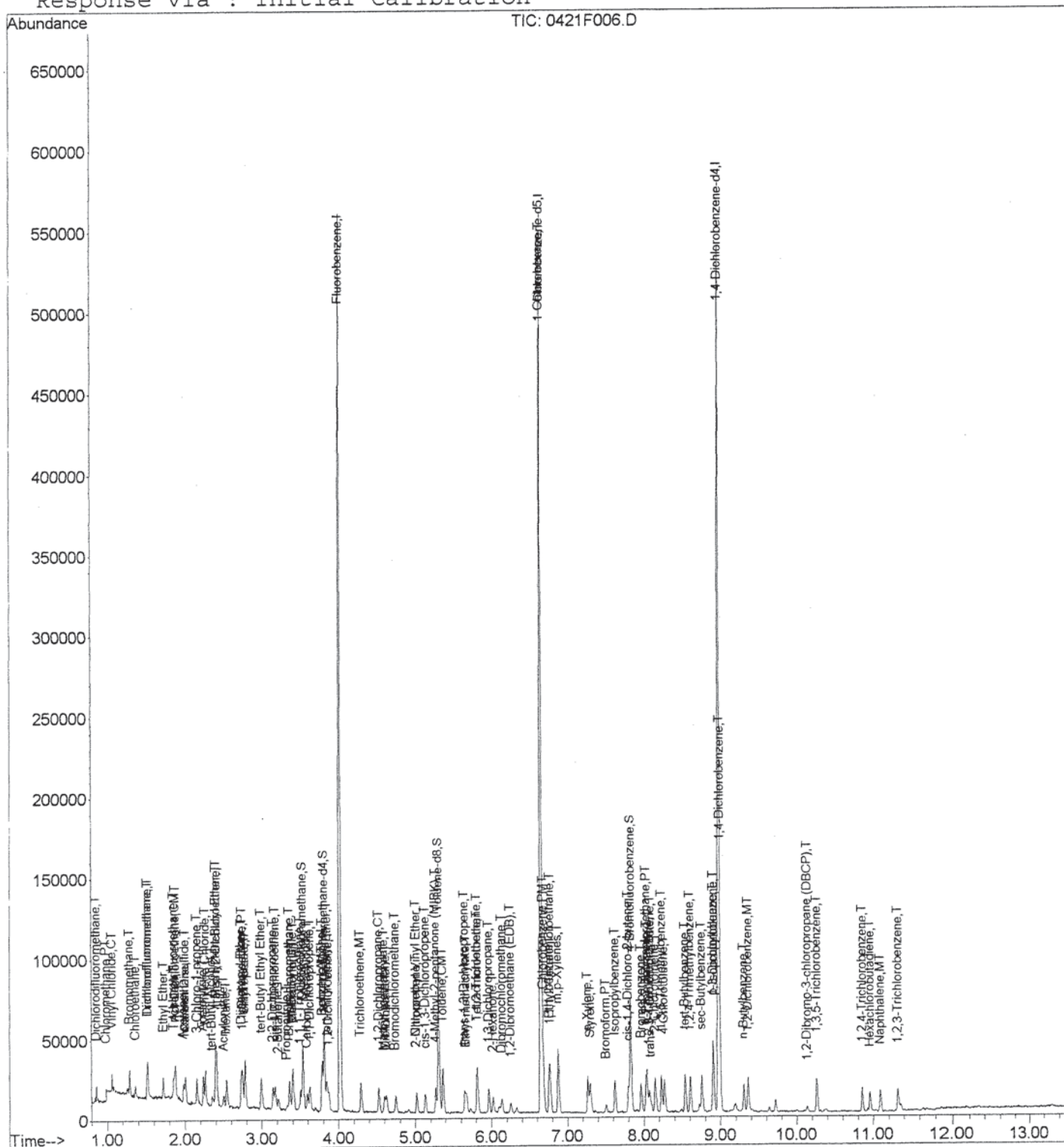
Handwritten signature: J. K. Roberts

Data File : J:\MS24\DATA\042110\0421F006.D
 Acq On : 21 Apr 2010 12:50 pm
 Sample : SOIL ICAL 2
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 13:59 2010

Vial: 8
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration



Data File : J:\MS24\DATA\042110\0421F007.D
 Acq On : 21 Apr 2010 1:11 pm
 Sample : SOIL ICAL 5
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:00:00 2010

Vial: 9
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

KA yuhiko

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	4.02	96	313503	50.00	PPB	0.00
59) Chlorobenzene-d5	6.65	82	130398	50.00	PPB	0.00
80) 1,4-Dichlorobenzene-d4	8.98	152	118928	50.00	PPB	0.00

System Monitoring Compounds

38) Dibromofluoromethane	3.53	113	32060	22.83	PPB	0.00
Spiked Amount	50.000		Recovery	=	45.66%	
42) 1,2-Dichloroethane-d4	3.81	65	47416	24.41	PPB	0.00
Spiked Amount	50.000		Recovery	=	48.82%	
57) Toluene-d8	5.31	98	110919	22.37	PPB	0.00
Spiked Amount	50.000		Recovery	=	44.74%	
79) 4-Bromofluorobenzene	7.83	95	40005	20.64	PPB	0.00
Spiked Amount	50.000		Recovery	=	41.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.86	85	9768	7.23	PPB	100
3) Chloromethane	0.99	50	11862	6.43	PPB	100
4) Vinyl Chloride	1.06	62	10952	6.07	PPB	100
5) Bromomethane	1.29	96	10155	8.57	PPB	100
6) Chloroethane	1.36	64	7161	6.36	PPB	100
7) Dichlorofluoromethane	1.52	67	17703	5.90	PPB	100
8) Trichlorofluoromethane	1.51	101	14806	5.55	PPB	100
9) Ethyl Ether	1.73	59	9108	6.24	PPB	100
10) Acrolein	1.87	56	8726	29.98	PPB	100
11) Trichlorotrifluoroethane	1.85	151	5642	5.13	PPB	100
12) 1,1-Dichloroethene	1.88	96	6250	5.36	PPB	100
13) Acetone	1.98	43	13412	16.50	PPB	100
14) Iodomethane	2.00	142	11565	22.29	PPB	100
15) Carbon Disulfide	2.01	76	23870	5.40	PPB	100
16) 3-Chloro-1-propene	2.16	76	4656	5.81	PPB	100
17) Acetonitrile	2.23	40	14160	104.41	PPB	100
18) Methylene Chloride	2.27	84	10099	6.04	PPB	100
19) tert-Butyl Alcohol	2.35	59	7871	29.46	PPB	100
20) Acrylonitrile	2.50	53	7036	11.00	PPB	100
21) Methyl tert-Butyl Ether	2.40	73	51350	10.69	PPB	100
22) trans-1,2-Dichloroethene	2.42	96	7850	5.50	PPB	100
23) Hexane	2.54	57	10972	5.55	PPB	100
24) Diisopropyl Ether	2.73	45	27973	5.48	PPB	100
25) 1,1-Dichloroethane	2.75	63	14956	5.45	PPB	100
26) Vinyl Acetate	2.78	86	1610	5.36	PPB	100
27) Chloroprene	2.78	53	20626	9.85	PPB	100
28) tert-Butyl Ethyl Ether	2.99	59	26133	5.38	PPB	100

(#) = qualifier out of range (m) = manual integration

0421F007.D 042110MS24SOIL.M

Wed Apr 21 14:03:27 2010

Page 1

Yuhiko

Data File : J:\MS24\DATA\042110\0421F007.D
 Acq On : 21 Apr 2010 1:11 pm
 Sample : SOIL ICAL 5
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:00:00 2010

Vial: 9
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	3.15	77	10630	5.16	PPB	100
30) cis-1,2-Dichloroethene	3.18	96	8500	5.29	PPB	100
31) 2-Butanone	3.21	72	2735	12.12	PPB	100
32) Propionitrile	3.33	54	3098	11.42	PPB	100
33) Methacrylonitrile	3.40	67	7222	9.90	PPB	100
34) Bromochloromethane	3.36	128	4232	5.47	PPB	100
36) Chloroform	3.41	83	14178	5.16	PPB	100
37) 1,1,1-Trichloroethane	3.50	97	11289	5.12	PPB	100
39) Carbon Tetrachloride	3.59	117	9463	4.98	PPB	100
40) 1,1-Dichloropropene	3.63	75	9468	5.01	PPB	100
41) Isobutyl Alcohol	3.78	43	9799	109.70	PPB	100
43) Benzene	3.79	78	30684	5.30	PPB	100
44) 1,2-Dichloroethane	3.87	62	12920	5.66	PPB	100
45) tert-Amyl Methyl Ether	3.84	55	6547	5.50	PPB	100
46) Trichloroethene	4.29	95	8322	5.48	PPB	100
48) 1,2-Dichloropropane	4.53	63	7951	5.12	PPB	100
49) Dibromomethane	4.62	93	5427	5.55	PPB	100
50) Methyl methacrylate	4.60	69	5291	4.38	PPB	100
51) 1,4-Dioxane	4.62	88	2390	95.58	PPB	100
52) Bromodichloromethane	4.75	83	9773	4.66	PPB	100
53) 2-Nitropropane	5.02	41	5725	13.85	PPB	100
54) 2-Chloroethyl Vinyl Ether	5.02	63	4851	4.50	PPB	100
55) cis-1,3-Dichloropropene	5.13	75	10175	4.22	PPB	100
56) 4-Methyl-2-pentanone (MIBK)	5.27	58	6486	9.85	PPB	100
58) Toluene	5.37	92	18140	4.69	PPB	100
61) trans-1,3-Dichloropropene	5.65	75	8613	3.91	PPB	100
62) Ethyl methacrylate	5.67	69	8507	4.18	PPB	100
63) 1,1,2-Trichloroethane	5.81	83	6646	5.65	PPB	100
64) Tetrachloroethene	5.82	164	6162	5.03	PPB	100
65) 2-Hexanone	6.02	57	2108	9.28	PPB	100
66) 1,3-Dichloropropane	5.97	76	12429	5.22	PPB	100
67) Dibromochloromethane	6.13	129	6504	4.25	PPB	100
68) 1,2-Dibromoethane (EDB)	6.25	107	6597	4.76	PPB	100
69) 1-Chlorohexane	6.64	91	8271	4.34	PPB	100
70) Chlorobenzene	6.68	112	20964	5.08	PPB	100
71) Ethylbenzene	6.75	106	10014	4.60	PPB	100
72) 1,1,1,2-Tetrachloroethane	6.77	131	6623	4.47	PPB	100
73) m,p-Xylenes	6.88	106	22854	8.96	PPB	100
74) o-Xylene	7.27	106	11517	4.46	PPB	100
75) Styrene	7.30	103	8634m	4.21	PPB	100
76) Bromoform	7.51	173	3723	3.85	PPB	100

(#) = qualifier out of range (m) = manual integration

Data File : J:\MS24\DATA\042110\0421F007.D
 Acq On : 21 Apr 2010 1:11 pm
 Sample : SOIL ICAL 5
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:00:00 2010

Vial: 9
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) Isopropylbenzene	7.62	105	26752	4.26	PPB	100
78) cis-1,4-Dichloro-2-butene	7.80	89	1486	8.20	PPB	100
81) 1,1,2,2-Tetrachloroethane	8.02	83	8402	5.22	PPB	100
82) trans-1,4-Dichloro-2-buten	8.10	53	1918	4.85	PPB	100
83) Bromobenzene	7.96	156	8500	5.04	PPB	100
84) n-Propylbenzene	8.04	91	31949	4.34	PPB	100
85) 1,2,3-Trichloropropane	8.08	110	3627	6.59	PPB	100
86) 2-Chlorotoluene	8.15	91	21114	4.84	PPB	100
87) 1,3,5-Trimethylbenzene	8.23	105	23126	4.49	PPB	100
88) 4-Chlorotoluene	8.27	91	21506	4.77	PPB	100
89) tert-Butylbenzene	8.54	119	20786	4.55	PPB	100
90) 1,2,4-Trimethylbenzene	8.60	105	23148	4.46	PPB	100
91) sec-Butylbenzene	8.76	105	29359	4.45	PPB	100
92) p-Isopropyltoluene	8.91	119	24653	4.47	PPB	100
93) 1,3-Dichlorobenzene	8.90	146	16425	5.46	PPB	100
94) 1,4-Dichlorobenzene	9.00	146	17226	5.52	PPB	100
95) n-Butylbenzene	9.31	91	21264	4.47	PPB	100
96) 1,2-Dichlorobenzene	9.36	146	16439	5.62	PPB	100
97) 1,2-Dibromo-3-chloropropan	10.14	155	1364	4.51	PPB	100
98) 1,3,5-Trichlorobenzene	10.26	180	12141	5.34	PPB	100
99) 1,2,4-Trichlorobenzene	10.86	180	10839	5.23	PPB	100
100) Hexachlorobutadiene	10.96	225	5965	5.02	PPB	100
101) Naphthalene	11.09	128	23953	4.56	PPB	100
102) 1,2,3-Trichlorobenzene	11.32	180	8700	4.58	PPB	100

(#) = qualifier out of range (m) = manual integration

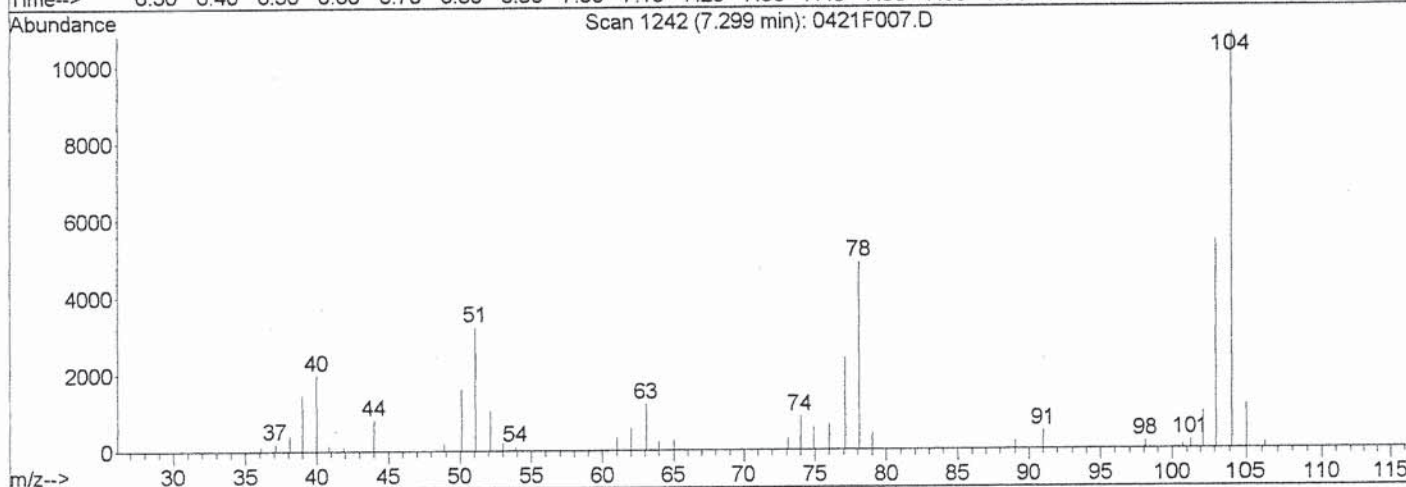
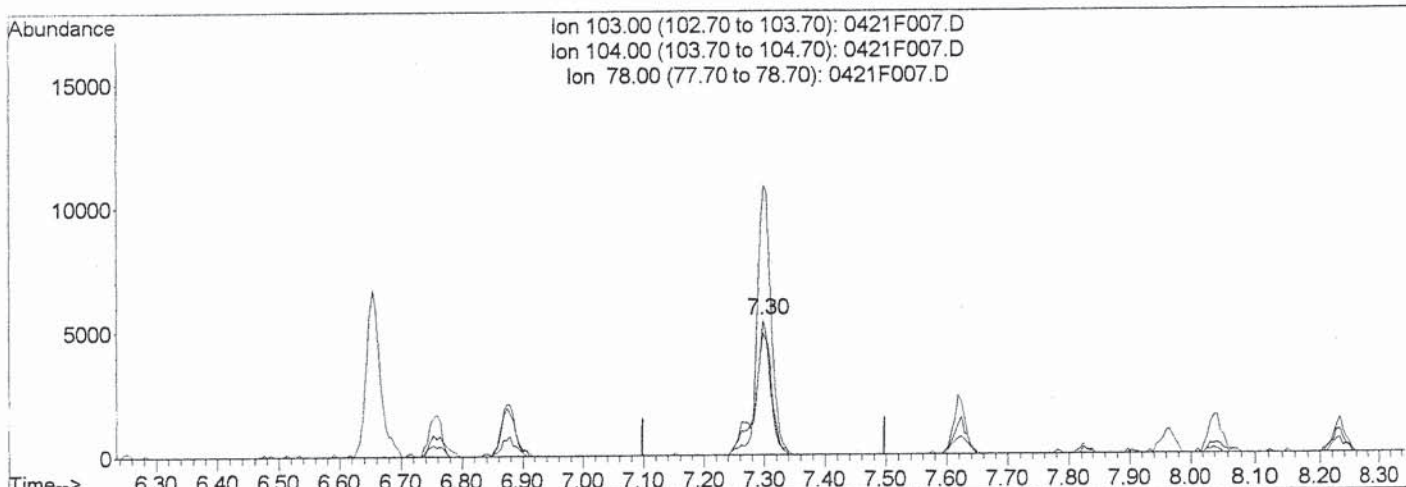
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F007.D
 Acq On : 21 Apr 2010 1:11 pm
 Sample : SOIL ICAL 5
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:00 2010

Vial: 9
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Single Level Calibration



TIC: 0421F007.D

(75) Styrene (T)
 7.30min 4.83PPB
 response 9894

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	200.48
78.00	90.20	90.18
0.00	0.00	0.00

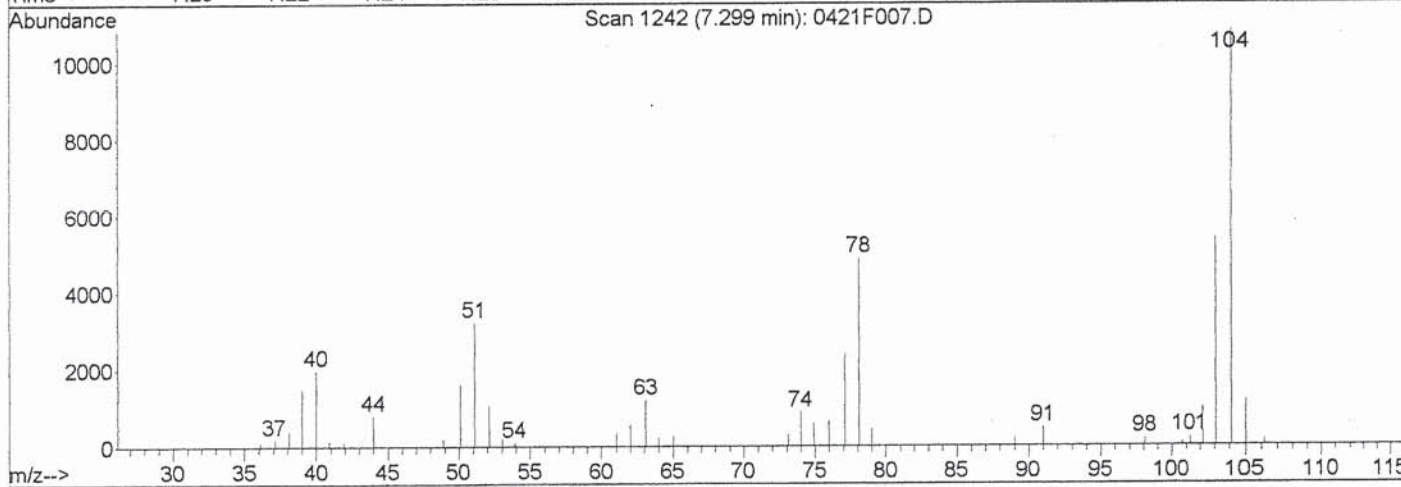
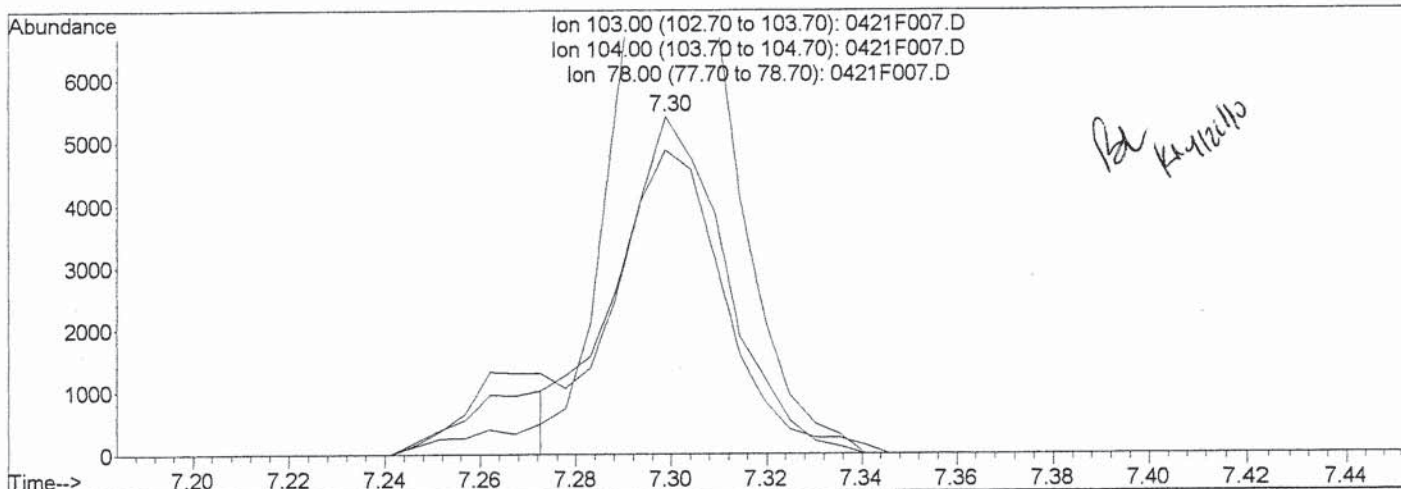
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F007.D
 Acq On : 21 Apr 2010 1:11 pm
 Sample : SOIL ICAL 5
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:01 2010

Vial: 9
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Single Level Calibration



TIC: 0421F007.D

(75) Styrene (T)
 7.30min 4.21PPB m
 response 8634

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	200.48
78.00	90.20	90.18
0.00	0.00	0.00

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Data File : J:\MS24\DATA\042110\0421F008.D
 Acq On : 21 Apr 2010 1:32 pm
 Sample : SOIL ICAL 10
 Misc :

Vial: 10
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Apr 21 14:03:35 2010

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Kayoko

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	4.01	96	323083	50.00	PPB	-0.01
59) Chlorobenzene-d5	6.65	82	130801	50.00	PPB	0.00
80) 1,4-Dichlorobenzene-d4	8.98	152	119901	50.00	PPB	0.00

System Monitoring Compounds

38) Dibromofluoromethane	3.52	113	48118	33.25	PPB	-0.01
Spiked Amount	50.000		Recovery	=	66.50%	
42) 1,2-Dichloroethane-d4	3.80	65	69679	34.81	PPB	-0.01
Spiked Amount	50.000		Recovery	=	69.62%	
57) Toluene-d8	5.30	98	163753	32.04	PPB	-0.01
Spiked Amount	50.000		Recovery	=	64.08%	
79) 4-Bromofluorobenzene	7.82	95	56484	29.06	PPB	0.00
Spiked Amount	50.000		Recovery	=	58.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.83	85	19345	13.90	PPB	98
3) Chloromethane	0.95	50	23839	12.53	PPB	98
4) Vinyl Chloride	1.03	62	22675	12.20	PPB	99
5) Bromomethane	1.26	96	18959	15.52	PPB	98
6) Chloroethane	1.33	64	14284	12.31	PPB	98
7) Dichlorofluoromethane	1.49	67	36517	11.81	PPB	98
8) Trichlorofluoromethane	1.48	101	30775	11.20	PPB	94
9) Ethyl Ether	1.70	59	17787	11.82	PPB	94
10) Acrolein	1.85	56	16308	54.36	PPB	87
11) Trichlorotrifluoroethane	1.83	151	11822	10.42	PPB	89
12) 1,1-Dichloroethene	1.85	96	13116	10.91	PPB	91
13) Acetone	1.96	43	19401	23.16	PPB	93
14) Iodomethane	1.97	142	27325	31.90	PPB	98
15) Carbon Disulfide	1.99	76	50785	11.15	PPB	99
16) 3-Chloro-1-propene	2.13	76	9413	11.41	PPB	# 84
17) Acetonitrile	2.21	40	29413	210.44	PPB	90
18) Methylene Chloride	2.24	84	19045	11.05	PPB	92
19) tert-Butyl Alcohol	2.34	59	12465	45.27	PPB	93
20) Acrylonitrile	2.48	53	13666	20.74	PPB	94
21) Methyl tert-Butyl Ether	2.38	73	102464	20.69	PPB	98
22) trans-1,2-Dichloroethene	2.40	96	15814	10.75	PPB	94
23) Hexane	2.52	57	22363	10.98	PPB	91
24) Diisopropyl Ether	2.72	45	58294	11.07	PPB	97
25) 1,1-Dichloroethane	2.73	63	32045	11.33	PPB	94
26) Vinyl Acetate	2.77	86	2695	8.71	PPB	# 65
27) Chloroprene	2.76	53	43022	19.94	PPB	94
28) tert-Butyl Ethyl Ether	2.98	59	55994	11.19	PPB	93

(#) = qualifier out of range (m) = manual integration

0421F008.D 042110MS24SOIL.M

Wed Apr 21 14:06:17 2010

Page 1

Spil

Data File : J:\MS24\DATA\042110\0421F008.D
 Acq On : 21 Apr 2010 1:32 pm
 Sample : SOIL ICAL 10
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:03:35 2010

Vial: 10
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	3.13	77	21839	10.28	PPB	94
30) cis-1,2-Dichloroethene	3.16	96	17790	10.74	PPB	93
31) 2-Butanone	3.20	72	4833	20.79	PPB	94
32) Propionitrile	3.31	54	5734	20.51	PPB	93
33) Methacrylonitrile	3.39	67	15090	20.08	PPB	93
34) Bromochloromethane	3.35	128	8778	11.00	PPB	# 77
36) Chloroform	3.40	83	30022	10.61	PPB	93
37) 1,1,1-Trichloroethane	3.49	97	23177	10.19	PPB	92
39) Carbon Tetrachloride	3.58	117	19885	10.16	PPB	95
40) 1,1-Dichloropropene	3.61	75	21145	10.86	PPB	92
41) Isobutyl Alcohol	3.77	43	17641	191.64	PPB	93
43) Benzene	3.78	78	65104	10.91	PPB	98
44) 1,2-Dichloroethane	3.86	62	26823	11.41	PPB	98
45) tert-Amyl Methyl Ether	3.83	55	13579	11.08	PPB	93
46) Trichloroethene	4.28	95	16622	10.62	PPB	94
48) 1,2-Dichloropropane	4.52	63	16277	10.17	PPB	98
49) Dibromomethane	4.62	93	10654	10.57	PPB	93
50) Methyl methacrylate	4.59	69	11003	8.84	PPB	90
51) 1,4-Dioxane	4.62	88	4220	163.76	PPB	93
52) Bromodichloromethane	4.74	83	20045	9.27	PPB	96
53) 2-Nitropropane	5.02	41	10891	25.57	PPB	95
54) 2-Chloroethyl Vinyl Ether	5.01	63	9818	8.84	PPB	95
55) cis-1,3-Dichloropropene	5.13	75	21169	8.52	PPB	96
56) 4-Methyl-2-pentanone (MIBK)	5.26	58	11805	17.40	PPB	98
58) Toluene	5.36	92	38684	9.70	PPB	89
61) trans-1,3-Dichloropropene	5.64	75	17890	8.10	PPB	87
62) Ethyl methacrylate	5.67	69	17405	8.53	PPB	95
63) 1,1,2-Trichloroethane	5.80	83	12376	10.49	PPB	95
64) Tetrachloroethene	5.81	164	12582	10.23	PPB	88
65) 2-Hexanone	6.02	57	4051	17.78	PPB	96
66) 1,3-Dichloropropane	5.96	76	25248	10.58	PPB	82
67) Dibromochloromethane	6.13	129	12677	8.26	PPB	92
68) 1,2-Dibromoethane (EDB)	6.25	107	13787	9.91	PPB	94
69) 1-Chlorohexane	6.64	91	17246	9.01	PPB	95
70) Chlorobenzene	6.68	112	42471	10.26	PPB	99
71) Ethylbenzene	6.75	106	20968	9.60	PPB	# 83
72) 1,1,1,2-Tetrachloroethane	6.77	131	13144	8.85	PPB	95
73) m,p-Xylenes	6.87	106	48376	18.90	PPB	94
74) o-Xylene	7.27	106	23869	9.22	PPB	88
75) Styrene	7.30	103	17049m	8.30	PPB	
76) Bromoform	7.50	173	7400	7.62	PPB	85

(#) = qualifier out of range (m) = manual integration

Data File : J:\MS24\DATA\042110\0421F008.D
 Acq On : 21 Apr 2010 1:32 pm
 Sample : SOIL ICAL 10
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:03:35 2010

Vial: 10
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) Isopropylbenzene	7.62	105	58080	9.22	PPB	94
78) cis-1,4-Dichloro-2-butene	7.80	89	2275	12.51	PPB #	70
81) 1,1,2,2-Tetrachloroethane	8.02	83	14993	9.23	PPB	89
82) trans-1,4-Dichloro-2-buten	8.10	53	3199	8.03	PPB	79
83) Bromobenzene	7.96	156	15929	9.36	PPB	96
84) n-Propylbenzene	8.04	91	66776	9.00	PPB	97
85) 1,2,3-Trichloropropane	8.07	110	5970	10.76	PPB #	59
86) 2-Chlorotoluene	8.15	91	42547	9.68	PPB	97
87) 1,3,5-Trimethylbenzene	8.23	105	45414	8.74	PPB	95
88) 4-Chlorotoluene	8.27	91	42142	9.26	PPB	92
89) tert-Butylbenzene	8.54	119	40406	8.77	PPB	96
90) 1,2,4-Trimethylbenzene	8.60	105	44697	8.54	PPB	87
91) sec-Butylbenzene	8.76	105	61961	9.32	PPB	98
92) p-Isopropyltoluene	8.91	119	51821	9.33	PPB	98
93) 1,3-Dichlorobenzene	8.90	146	31467	10.37	PPB	93
94) 1,4-Dichlorobenzene	9.00	146	32874	10.44	PPB	96
95) n-Butylbenzene	9.31	91	45994	9.58	PPB	93
96) 1,2-Dichlorobenzene	9.36	146	31243	10.59	PPB	96
97) 1,2-Dibromo-3-chloropropan	10.14	155	2102	6.90	PPB	93
98) 1,3,5-Trichlorobenzene	10.26	180	23957	10.46	PPB	89
99) 1,2,4-Trichlorobenzene	10.86	180	20067	9.60	PPB	97
100) Hexachlorobutadiene	10.96	225	11917	9.95	PPB	97
101) Naphthalene	11.09	128	45398	8.57	PPB	95
102) 1,2,3-Trichlorobenzene	11.32	180	20338	10.62	PPB	89

(#) = qualifier out of range (m) = manual integration

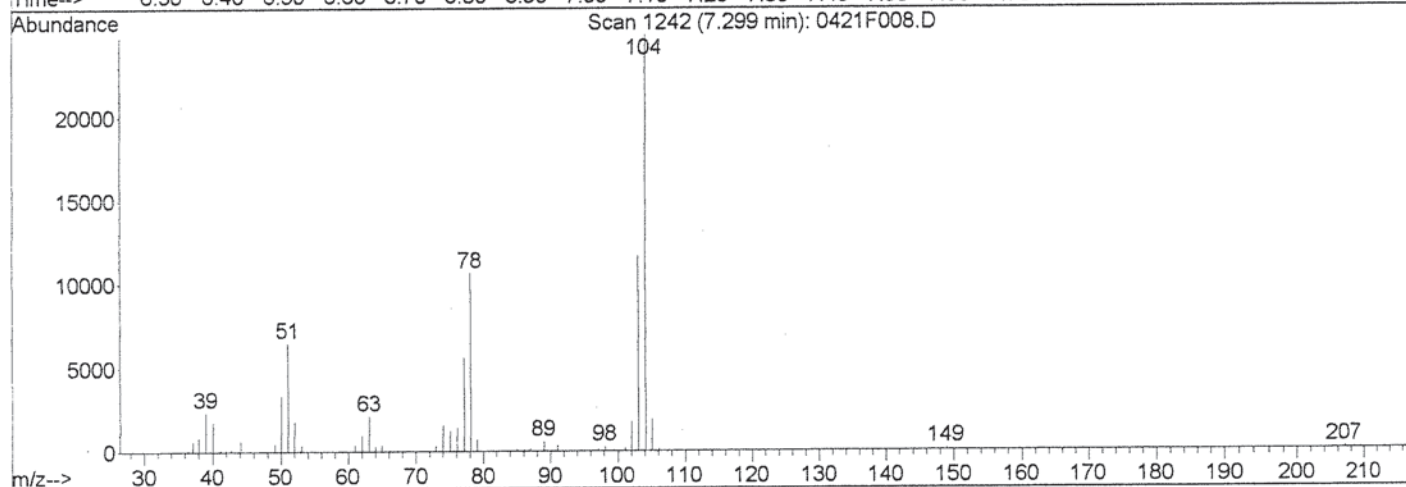
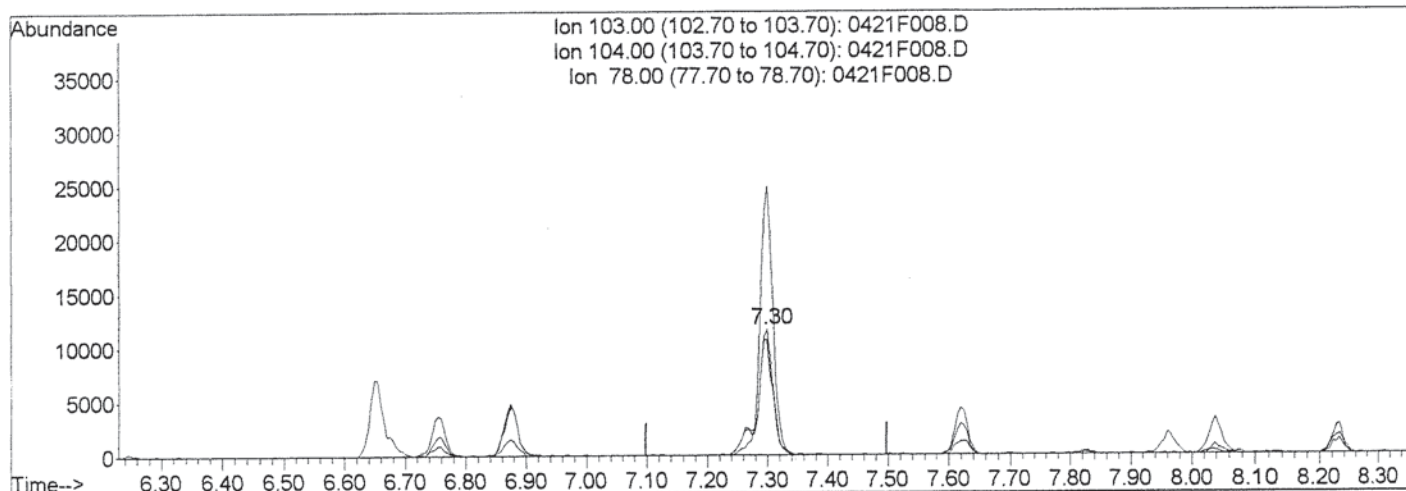
Data File : J:\MS24\DATA\042110\0421F008.D
 Acq On : 21 Apr 2010 1:32 pm
 Sample : SOIL ICAL 10
 Misc :

Vial: 10
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Apr 21 14:05 2010

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Single Level Calibration



(75) Styrene (T)

7.30min 10.16PPB

response 20883

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	214.38
78.00	90.20	91.45
0.00	0.00	0.00

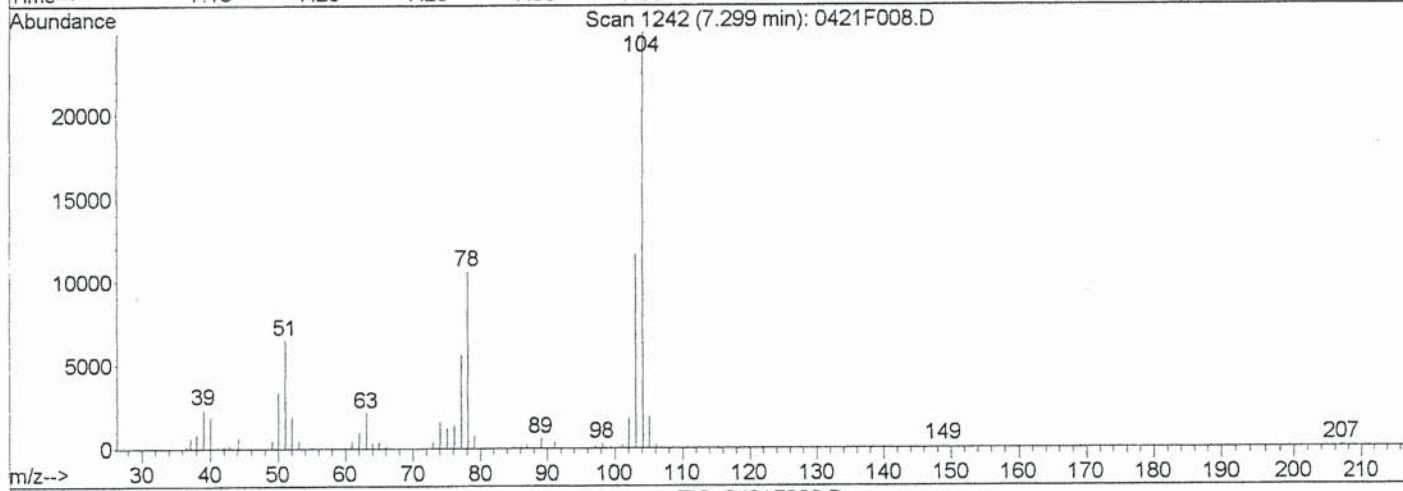
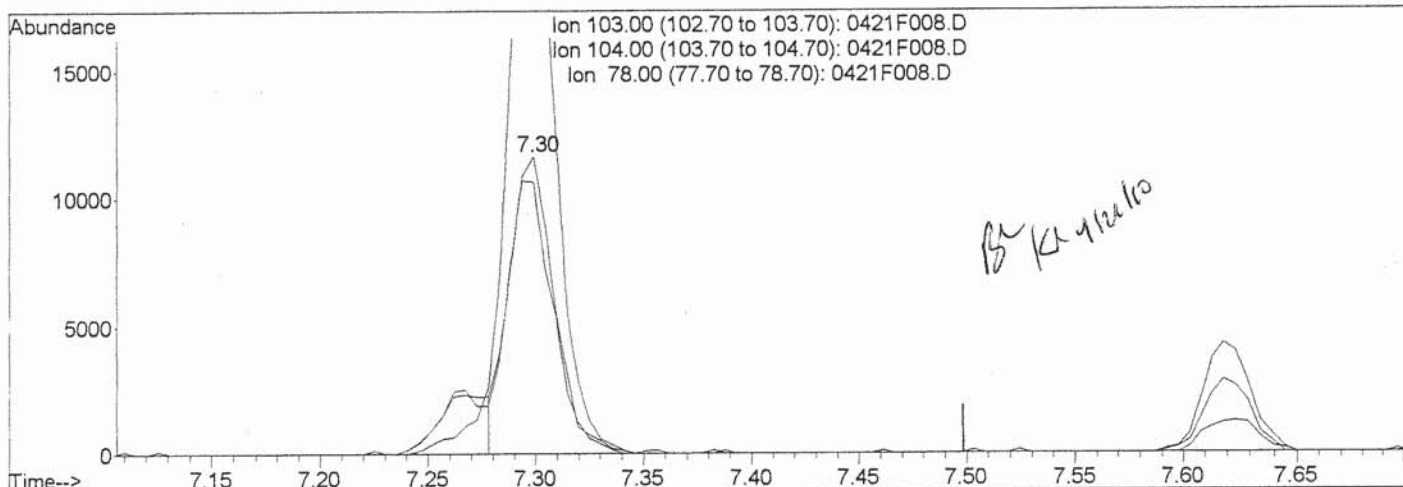
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F008.D
Acq On : 21 Apr 2010 1:32 pm
Sample : SOIL ICAL 10
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 21 14:05 2010

Vial: 10
Operator: KR
Inst : MS24
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
Title : VOA MS24 EPA Method 8260B
Last Update : Wed Apr 21 13:52:07 2010
Response via : Single Level Calibration



(75) Styrene (T)
7.30min 8.30PPB m
response 17049

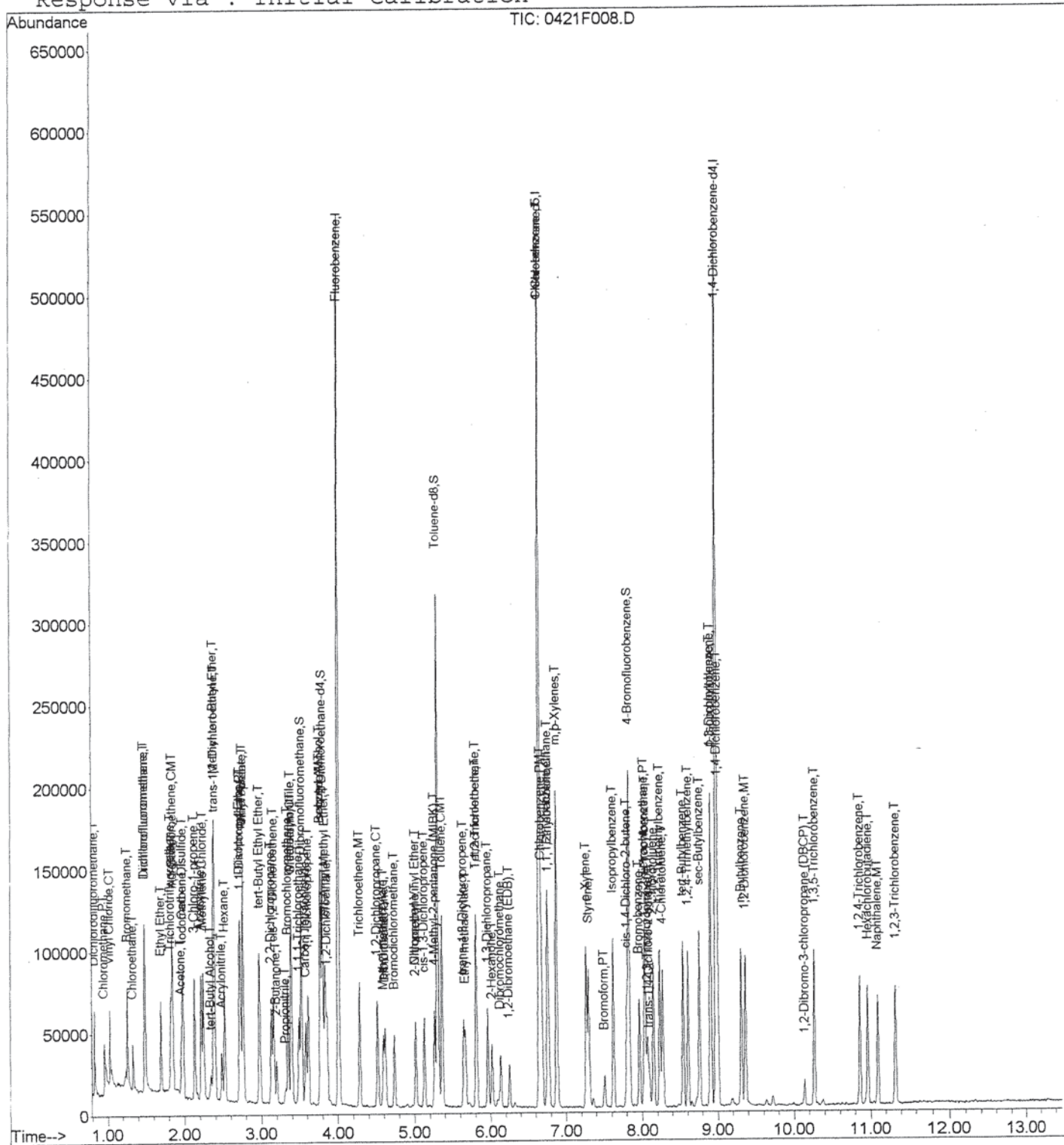
Ion	Exp%	Act%
103.00	100	100
104.00	200.50	214.38
78.00	90.20	91.45
0.00	0.00	0.00

Data File : J:\MS24\DATA\042110\0421F008.D
 Acq On : 21 Apr 2010 1:32 pm
 Sample : SOIL ICAL 10
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:05 2010

Vial: 10
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration



Data File : J:\MS24\DATA\042110\0421F009.D
 Acq On : 21 Apr 2010 1:53 pm
 Sample : SOIL ICAL 20
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:07:08 2010

Vial: 11
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

KR 4/21/10

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	4.02	96	327246	50.00	PPB	0.00
59) Chlorobenzene-d5	6.65	82	133223	50.00	PPB	0.00
80) 1,4-Dichlorobenzene-d4	8.98	152	115766	50.00	PPB	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	3.53	113	67092	45.76	PPB	0.00
Spiked Amount						
						Recovery = 91.52%
42) 1,2-Dichloroethane-d4	3.81	65	97235	47.96	PPB	0.00
Spiked Amount						
						Recovery = 95.92%
57) Toluene-d8	5.31	98	242612	46.86	PPB	0.00
Spiked Amount						
						Recovery = 93.72%
79) 4-Bromofluorobenzene	7.83	95	84748	42.80	PPB	0.00
Spiked Amount						
						Recovery = 85.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.86	85	42049	29.83	PPB	97
3) Chloromethane	0.99	50	49571	25.73	PPB	94
4) Vinyl Chloride	1.06	62	47132	25.04	PPB	99
5) Bromomethane	1.29	96	38903	31.44	PPB	98
6) Chloroethane	1.36	64	31345	26.66	PPB	98
7) Dichlorofluoromethane	1.52	67	77999	24.91	PPB	99
8) Trichlorofluoromethane	1.51	101	66297	23.81	PPB	96
9) Ethyl Ether	1.73	59	39484	25.91	PPB	96
10) Acrolein	1.87	56	37052	121.94	PPB	91
11) Trichlorotrifluoroethane	1.86	151	25452	22.15	PPB	93
12) 1,1-Dichloroethene	1.88	96	28722	23.60	PPB	95
13) Acetone	1.98	43	30935	36.47	PPB	95
14) Iodomethane	2.00	142	75294	61.05	PPB	98
15) Carbon Disulfide	2.01	76	111882	24.26	PPB	97
16) 3-Chloro-1-propene	2.16	76	20331	24.32	PPB	99
17) Acetonitrile	2.24	40	61025	431.06	PPB	96
18) Methylene Chloride	2.27	84	41796	23.95	PPB	98
19) tert-Butyl Alcohol	2.36	59	24835	89.06	PPB	97
20) Acrylonitrile	2.50	53	30359	45.49	PPB	97
21) Methyl tert-Butyl Ether	2.40	73	236732	47.20	PPB	98
22) trans-1,2-Dichloroethene	2.42	96	34154	22.93	PPB	89
23) Hexane	2.54	57	47877	23.20	PPB	97
24) Diisopropyl Ether	2.74	45	130995	24.57	PPB	97
25) 1,1-Dichloroethane	2.75	63	68481	23.91	PPB	95
26) Vinyl Acetate	2.78	86	6461	20.63	PPB	# 75
27) Chloroprene	2.78	53	91164	41.71	PPB	97
28) tert-Butyl Ethyl Ether	2.99	59	120577	23.78	PPB	96

(#) = qualifier out of range (m) = manual integration
 0421F009.D 042110MS24SOIL.M Wed Apr 21 14:08:28 2010

Signature

Data File : J:\MS24\DATA\042110\0421F009.D
 Acq On : 21 Apr 2010 1:53 pm
 Sample : SOIL ICAL 20
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:07:08 2010

Vial: 11
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	3.15	77	46459	21.59	PPB	95
30) cis-1,2-Dichloroethene	3.18	96	38918	23.19	PPB	99
31) 2-Butanone	3.21	72	9531	40.47	PPB	89
32) Propionitrile	3.32	54	11659	41.18	PPB	93
33) Methacrylonitrile	3.40	67	31272	41.07	PPB	93
34) Bromochloromethane	3.36	128	18867	23.35	PPB	97
36) Chloroform	3.41	83	65143	22.72	PPB	99
37) 1,1,1-Trichloroethane	3.50	97	51008	22.15	PPB	92
39) Carbon Tetrachloride	3.59	117	44174	22.28	PPB	95
40) 1,1-Dichloropropene	3.62	75	46361	23.50	PPB	90
41) Isobutyl Alcohol	3.78	43	36913	395.89	PPB	96
43) Benzene	3.79	78	147543	24.41	PPB	98
44) 1,2-Dichloroethane	3.87	62	59077	24.81	PPB	98
45) tert-Amyl Methyl Ether	3.84	55	30741	24.76	PPB	91
46) Trichloroethene	4.29	95	39299	24.78	PPB	97
47) Ethyl Acrylate	4.37	55	521	0.24	PPB	# 76
48) 1,2-Dichloropropane	4.53	63	38558	23.78	PPB	98
49) Dibromomethane	4.62	93	24825	24.32	PPB	94
50) Methyl methacrylate	4.60	69	26321	20.88	PPB	91
51) 1,4-Dioxane	4.62	88	9778	374.62	PPB	97
52) Bromodichloromethane	4.75	83	48148	21.99	PPB	95
53) 2-Nitropropane	5.02	41	25875	59.99	PPB	91
54) 2-Chloroethyl Vinyl Ether	5.02	63	23080	20.51	PPB	93
55) cis-1,3-Dichloropropene	5.13	75	53351	21.20	PPB	90
56) 4-Methyl-2-pentanone (MIBK)	5.27	58	28334	41.23	PPB	99
58) Toluene	5.36	92	90753	22.47	PPB	99
61) trans-1,3-Dichloropropene	5.65	75	46711	20.77	PPB	84
62) Ethyl methacrylate	5.67	69	44466	21.38	PPB	99
63) 1,1,2-Trichloroethane	5.81	83	29747	24.75	PPB	95
64) Tetrachloroethene	5.82	164	28624	22.85	PPB	86
65) 2-Hexanone	6.02	57	9019	38.87	PPB	# 69
66) 1,3-Dichloropropane	5.97	76	59989	24.68	PPB	89
67) Dibromochloromethane	6.13	129	30849	19.74	PPB	95
68) 1,2-Dibromoethane (EDB)	6.25	107	31497	22.23	PPB	95
69) 1-Chlorohexane	6.64	91	38965	20.00	PPB	90
70) Chlorobenzene	6.68	112	96405	22.87	PPB	100
71) Ethylbenzene	6.76	106	48138	21.64	PPB	86
72) 1,1,1,2-Tetrachloroethane	6.77	131	31064	20.54	PPB	92
73) m,p-Xylenes	6.87	106	114110	43.77	PPB	95
74) o-Xylene	7.27	106	55056	20.89	PPB	87
75) Styrene	7.30	103	42839m	20.47	PPB	

(#) = qualifier out of range (m) = manual integration

Data File : J:\MS24\DATA\042110\0421F009.D
 Acq On : 21 Apr 2010 1:53 pm
 Sample : SOIL ICAL 20
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:07:08 2010

Vial: 11
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76) Bromoform	7.51	173	18073	18.28	PPB	88
77) Isopropylbenzene	7.62	105	134343	20.94	PPB	94
78) cis-1,4-Dichloro-2-butene	7.79	89	6331	34.18	PPB	# 81
81) 1,1,2,2-Tetrachloroethane	8.02	83	34017	21.69	PPB	92
82) trans-1,4-Dichloro-2-buten	8.10	53	8182	21.26	PPB	95
83) Bromobenzene	7.96	156	38189	23.24	PPB	94
84) n-Propylbenzene	8.04	91	159146	22.22	PPB	97
85) 1,2,3-Trichloropropane	8.07	110	12805	23.91	PPB	# 69
86) 2-Chlorotoluene	8.15	91	100004	23.57	PPB	94
87) 1,3,5-Trimethylbenzene	8.23	105	111868	22.29	PPB	98
88) 4-Chlorotoluene	8.27	91	98821	22.50	PPB	99
89) tert-Butylbenzene	8.54	119	96911	21.77	PPB	98
90) 1,2,4-Trimethylbenzene	8.60	105	114160	22.59	PPB	88
91) sec-Butylbenzene	8.76	105	149839	23.33	PPB	98
92) p-Isopropyltoluene	8.91	119	124522	23.22	PPB	97
93) 1,3-Dichlorobenzene	8.90	146	72004	24.58	PPB	99
94) 1,4-Dichlorobenzene	9.00	146	75085	24.70	PPB	91
95) n-Butylbenzene	9.31	91	109471	23.62	PPB	95
96) 1,2-Dichlorobenzene	9.36	146	75958	26.67	PPB	97
97) 1,2-Dibromo-3-chloropropan	10.14	155	5504	18.70	PPB	92
98) 1,3,5-Trichlorobenzene	10.26	180	55421	25.06	PPB	91
99) 1,2,4-Trichlorobenzene	10.85	180	46894	23.24	PPB	90
100) Hexachlorobutadiene	10.96	225	26977	23.32	PPB	99
101) Naphthalene	11.09	128	106995	20.92	PPB	98
102) 1,2,3-Trichlorobenzene	11.32	180	48715	26.35	PPB	87

(#) = qualifier out of range (m) = manual integration

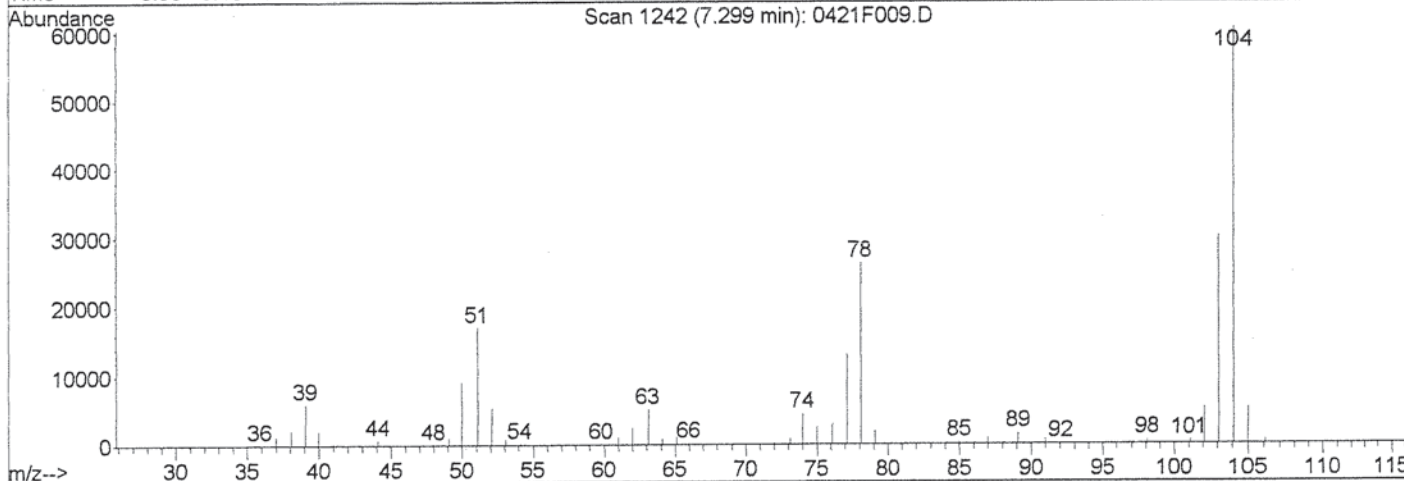
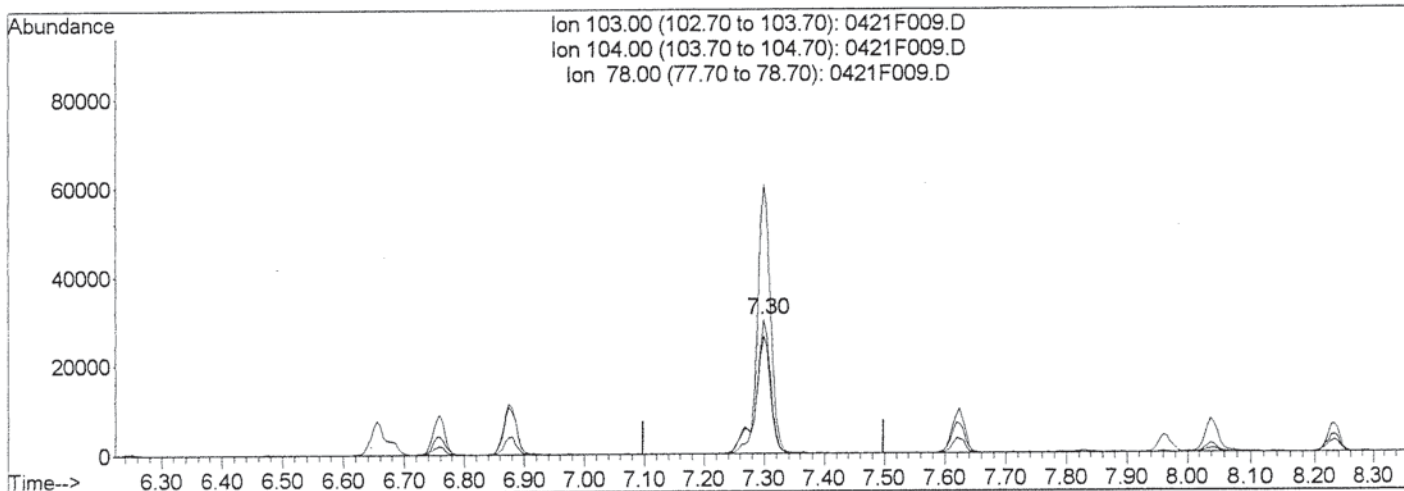
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F009.D
 Acq On : 21 Apr 2010 1:53 pm
 Sample : SOIL ICAL 20
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:07 2010

Vial: 11
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Single Level Calibration



TIC: 0421F009.D

(75) Styrene (T)
 7.30min 24.23PPB
 response 50720

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	201.01
78.00	90.20	87.08
0.00	0.00	0.00

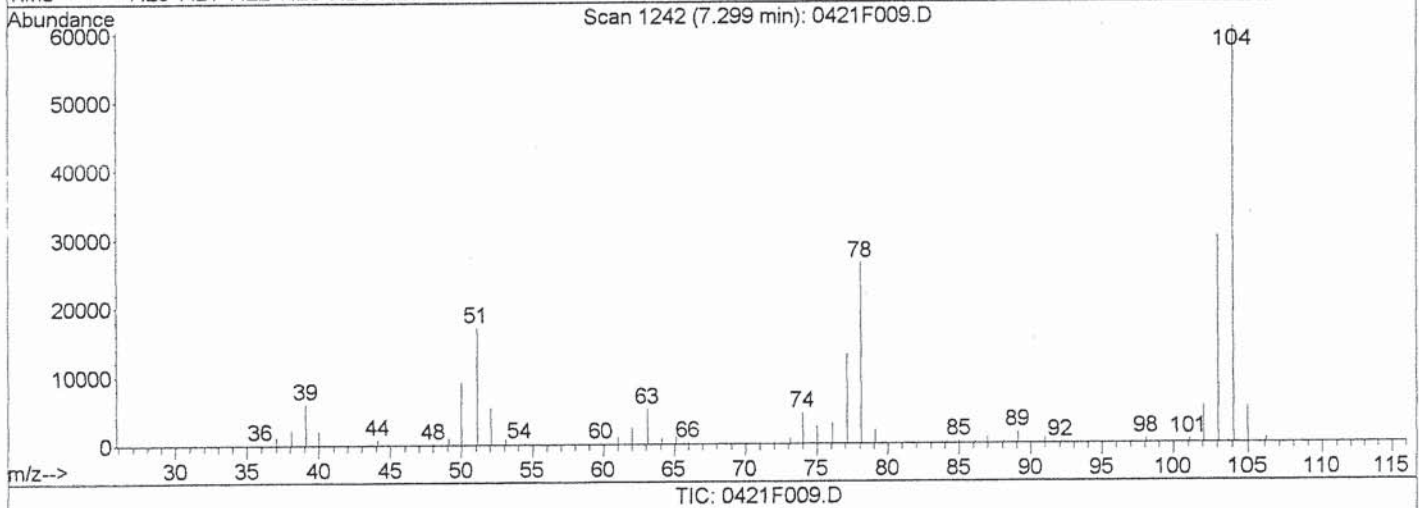
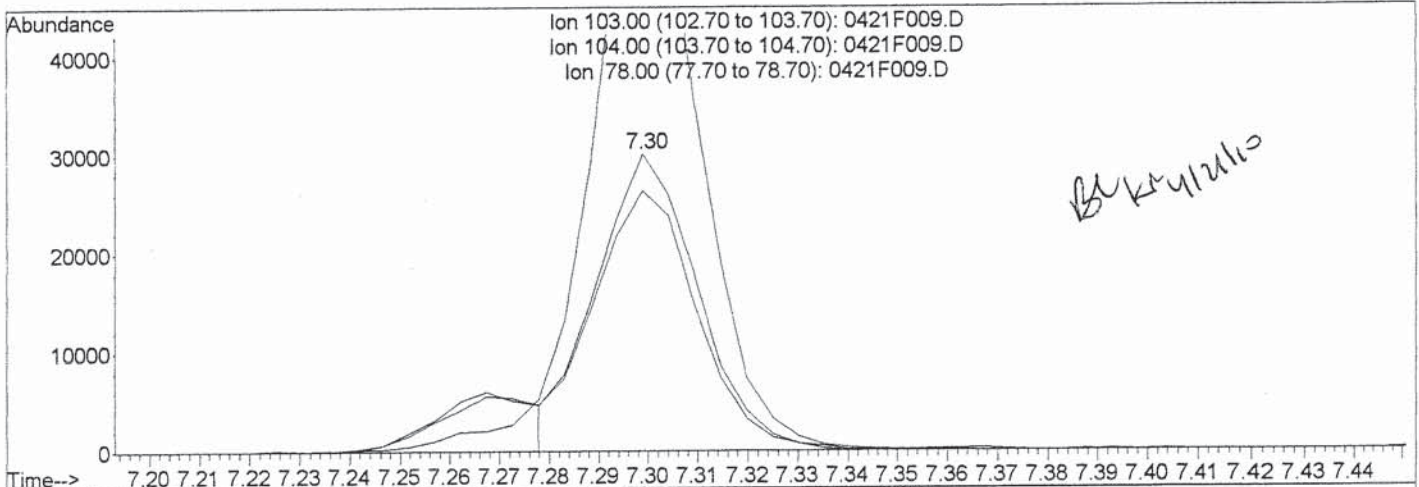
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F009.D
 Acq On : 21 Apr 2010 1:53 pm
 Sample : SOIL ICAL 20
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:08 2010

Vial: 11
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Single Level Calibration



(75) Styrene (T)
 7.30min 20.47PPB m
 response 42839

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	201.01
78.00	90.20	87.49
0.00	0.00	0.00

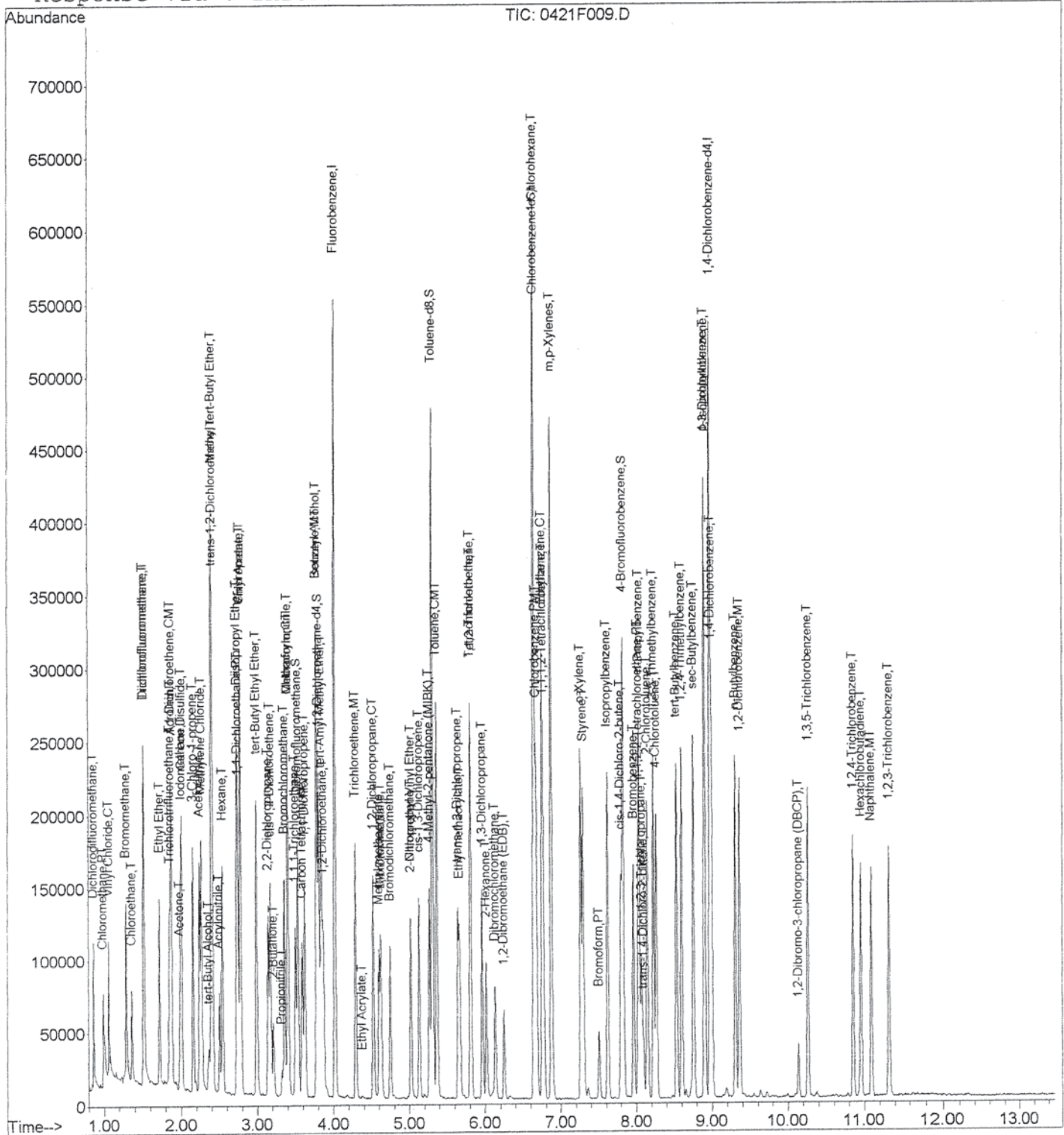
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Data File : J:\MS24\DATA\042110\0421F009.D
 Acq On : 21 Apr 2010 1:53 pm
 Sample : SOIL ICAL 20
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:08 2010

Vial: 11
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 13:52:07 2010
 Response via : Initial Calibration



Data File : J:\MS24\DATA\042110\0421F010.D
 Acq On : 21 Apr 2010 2:15 pm
 Sample : SOIL ICAL 50
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:31:03 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:10:01 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

KR 4/21/10

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	4.02	96	321724	50.00	PPB	0.00
59) Chlorobenzene-d5	6.65	82	137440	50.00	PPB	0.00
80) 1,4-Dichlorobenzene-d4	8.98	152	130674	50.00	PPB	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	3.53	113	77159	48.46	PPB	0.00
Spiked Amount				50.000		
				Recovery =	96.92%	
42) 1,2-Dichloroethane-d4	3.81	65	111265	47.89	PPB	0.00
Spiked Amount				50.000		
				Recovery =	95.78%	
57) Toluene-d8	5.31	98	271397	49.85	PPB	0.00
Spiked Amount				50.000		
				Recovery =	99.70%	
79) 4-Bromofluorobenzene	7.83	95	111120	54.41	PPB	0.00
Spiked Amount				50.000		
				Recovery =	108.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.85	85	90628	44.62	PPB	96
3) Chloromethane	0.98	50	112745	43.17	PPB	94
4) Vinyl Chloride	1.05	62	102580	44.77	PPB	96
5) Bromomethane	1.28	96	74995	38.23	PPB	98
6) Chloroethane	1.36	64	67234	45.50	PPB	95
7) Dichlorofluoromethane	1.51	67	171027	46.63	PPB	98
8) Trichlorofluoromethane	1.51	101	138536	44.36	PPB	96
9) Ethyl Ether	1.72	59	87788	47.57	PPB	96
10) Acrolein	1.87	56	83933	229.99	PPB	94
11) Trichlorotrifluoroethane	1.85	151	53517	44.63	PPB	98
12) 1,1-Dichloroethene	1.87	96	61320	40.90	PPB	98
13) Acetone	1.98	43	69245	66.95	PPB	98
14) Iodomethane	1.99	142	184618	125.94	PPB	97
15) Carbon Disulfide	2.00	76	238783	45.39	PPB	97
16) 3-Chloro-1-propene	2.15	76	44001	45.64	PPB	91
17) Acetonitrile	2.23	40	140525	945.06	PPB	97
18) Methylene Chloride	2.26	84	90903	45.27	PPB	95
19) tert-Butyl Alcohol	2.35	59	56566	188.51	PPB	96
20) Acrylonitrile	2.50	53	69152	90.72	PPB	96
21) Methyl tert-Butyl Ether	2.40	73	532941	96.56	PPB	98
22) trans-1,2-Dichloroethene	2.41	96	76042	44.44	PPB	88
23) Hexane	2.54	57	102835	42.76	PPB	97
24) Diisopropyl Ether	2.73	45	298570	47.59	PPB	96
25) 1,1-Dichloroethane	2.75	63	152770	45.72	PPB	97
26) Vinyl Acetate	2.78	86	14390	47.11	PPB	# 62
27) Chloroprene	2.78	53	210165	95.45	PPB	96
28) tert-Butyl Ethyl Ether	2.99	59	278977	49.50	PPB	94

(#) = qualifier out of range (m) = manual integration
 0421F010.D 042110MS24SOIL.M Wed Apr 21 14:32:23 2010

Signature

Data File : J:\MS24\DATA\042110\0421F010.D
 Acq On : 21 Apr 2010 2:15 pm
 Sample : SOIL ICAL 50
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:31:03 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:10:01 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	3.15	77	107169	48.42	PPB	99
30) cis-1,2-Dichloroethene	3.17	96	91630	49.43	PPB	95
31) 2-Butanone	3.21	72	22659	89.97	PPB	91
32) Propionitrile	3.32	54	27337	86.44	PPB	90
33) Methacrylonitrile	3.40	67	75111	98.38	PPB	89
34) Bromochloromethane	3.36	128	44320	49.80	PPB	87
36) Chloroform	3.41	83	147468	48.30	PPB	98
37) 1,1,1-Trichloroethane	3.50	97	110512	46.76	PPB	95
39) Carbon Tetrachloride	3.59	117	92304	45.44	PPB	93
40) 1,1-Dichloropropene	3.62	75	96165	44.58	PPB	96
41) Isobutyl Alcohol	3.78	43	89901	946.75	PPB	91
43) Benzene	3.78	78	321162	47.68	PPB	97
44) 1,2-Dichloroethane	3.87	62	133395	48.67	PPB	97
45) tert-Amyl Methyl Ether	3.84	55	69334	45.90	PPB	# 77
46) Trichloroethene	4.29	95	83749	45.67	PPB	87
48) 1,2-Dichloropropane	4.53	63	86870	48.27	PPB	98
49) Dibromomethane	4.62	93	55942	49.43	PPB	92
50) Methyl methacrylate	4.60	69	60392	52.13	PPB	94
51) 1,4-Dioxane	4.62	88	22968	990.42	PPB	98
52) Bromodichloromethane	4.75	83	110857	52.22	PPB	99
53) 2-Nitropropane	5.02	41	63266	141.63	PPB	97
54) 2-Chloroethyl Vinyl Ether	5.02	63	53630	51.77	PPB	91
55) cis-1,3-Dichloropropene	5.13	75	123457	54.32	PPB	93
56) 4-Methyl-2-pentanone (MIBK)	5.27	58	69584	107.06	PPB	96
58) Toluene	5.36	92	193408	47.44	PPB	97
61) trans-1,3-Dichloropropene	5.65	75	111122	54.61	PPB	89
62) Ethyl methacrylate	5.67	69	105513	53.51	PPB	97
63) 1,1,2-Trichloroethane	5.81	83	66254	44.96	PPB	93
64) Tetrachloroethene	5.81	164	61640	44.18	PPB	91
65) 2-Hexanone	6.02	57	23232	99.68	PPB	# 64
66) 1,3-Dichloropropane	5.97	76	135279	47.10	PPB	90
67) Dibromochloromethane	6.13	129	76188	53.22	PPB	95
68) 1,2-Dibromoethane (EDB)	6.25	107	74710	48.40	PPB	95
69) 1-Chlorohexane	6.64	91	87440	44.91	PPB	91
70) Chlorobenzene	6.68	112	223708	46.73	PPB	99
71) Ethylbenzene	6.76	106	109279	48.28	PPB	# 80
72) 1,1,1,2-Tetrachloroethane	6.77	131	74906	51.31	PPB	93
73) m,p-Xylenes	6.87	106	270760	105.23	PPB	95
74) o-Xylene	7.27	106	130278	50.26	PPB	88
75) Styrene	7.30	103	106647m	54.96	PPB	
76) Bromoform	7.51	173	48675	58.54	PPB	89

(#) = qualifier out of range (m) = manual integration

Data File : J:\MS24\DATA\042110\0421F010.D
 Acq On : 21 Apr 2010 2:15 pm
 Sample : SOIL ICAL 50
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:31:03 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:10:01 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) Isopropylbenzene	7.62	105	338628	54.41	PPB	96
78) cis-1,4-Dichloro-2-butene	7.80	89	19697	130.58	PPB #	79
81) 1,1,2,2-Tetrachloroethane	8.03	83	89412	45.53	PPB	90
82) trans-1,4-Dichloro-2-buten	8.10	53	22104	53.83	PPB	84
83) Bromobenzene	7.96	156	99691	48.84	PPB	93
84) n-Propylbenzene	8.04	91	420480	54.18	PPB	97
85) 1,2,3-Trichloropropane	8.07	110	33552	43.90	PPB #	57
86) 2-Chlorotoluene	8.15	91	258451	50.14	PPB	95
87) 1,3,5-Trimethylbenzene	8.23	105	297211	54.55	PPB	99
88) 4-Chlorotoluene	8.27	91	263827	50.93	PPB	96
89) tert-Butylbenzene	8.54	119	256444	53.27	PPB	99
90) 1,2,4-Trimethylbenzene	8.60	105	301887	55.22	PPB	89
91) sec-Butylbenzene	8.76	105	375122	51.95	PPB	99
92) p-Isopropyltoluene	8.91	119	313474	51.98	PPB	96
93) 1,3-Dichlorobenzene	8.90	146	184199	48.87	PPB	99
94) 1,4-Dichlorobenzene	9.00	146	184788	46.32	PPB	90
95) n-Butylbenzene	9.31	91	273563	51.73	PPB	95
96) 1,2-Dichlorobenzene	9.36	146	181618	49.26	PPB	98
97) 1,2-Dibromo-3-chloropropan	10.14	155	12286	45.53	PPB	80
98) 1,3,5-Trichlorobenzene	10.26	180	105104	38.90	PPB	97
99) 1,2,4-Trichlorobenzene	10.86	180	89767	39.47	PPB	94
100) Hexachlorobutadiene	10.96	225	46548	36.96	PPB	94
101) Naphthalene	11.09	128	226410	41.22	PPB	96
102) 1,2,3-Trichlorobenzene	11.32	180	89863	41.44	PPB	93

(#) = qualifier out of range (m) = manual integration

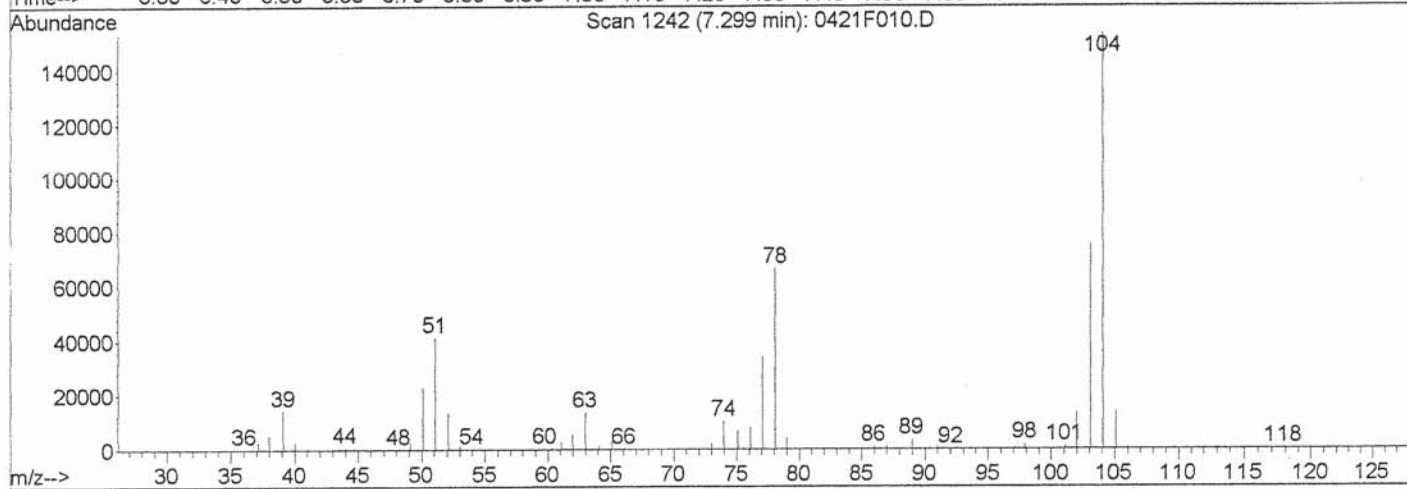
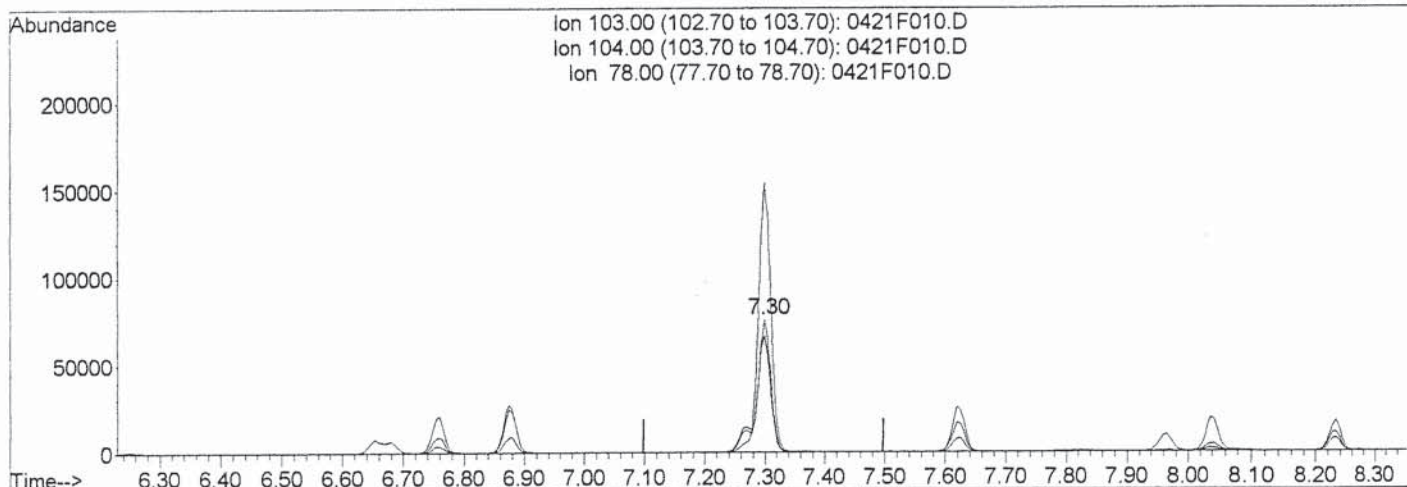
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F010.D
 Acq On : 21 Apr 2010 2:15 pm
 Sample : SOIL ICAL 50
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:31 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:10:01 2010
 Response via : Single Level Calibration



TIC: 0421F010.D

(75) Styrene (T)

7.30min 64.27PPB

response 124713

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	203.21
78.00	90.20	87.77
0.00	0.00	0.00

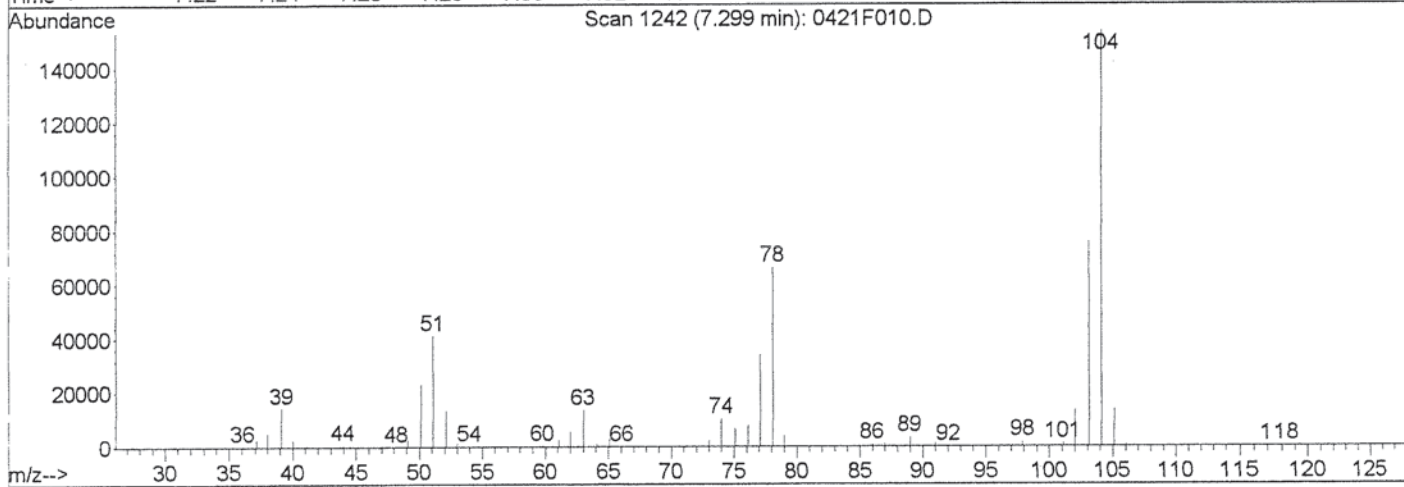
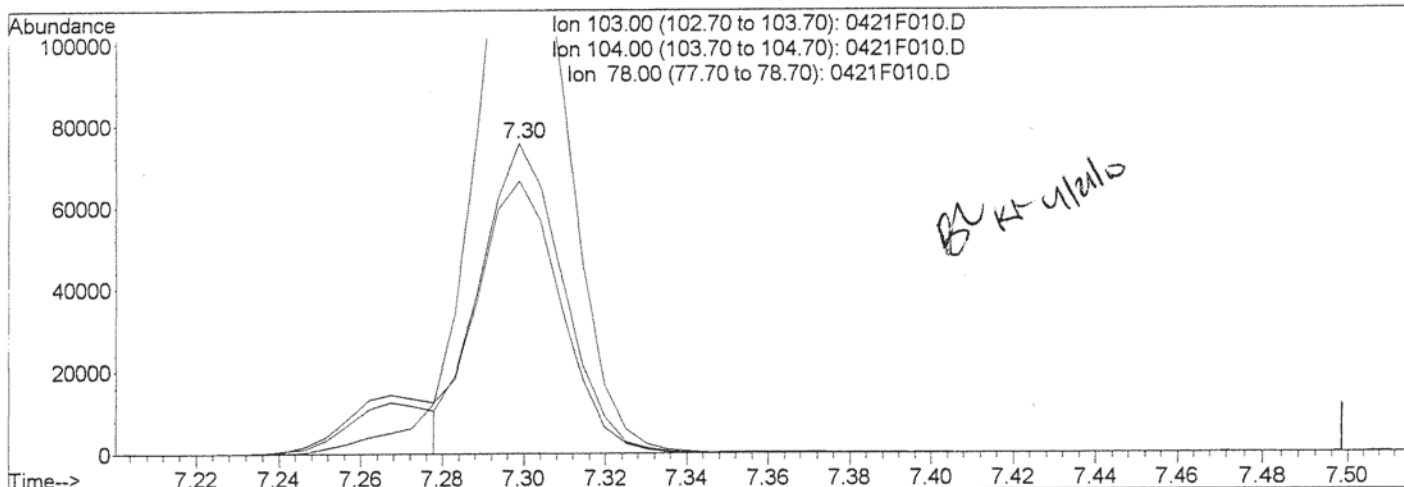
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F010.D
 Acq On : 21 Apr 2010 2:15 pm
 Sample : SOIL ICAL 50
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:32 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:10:01 2010
 Response via : Single Level Calibration



(75) Styrene (T)
 7.30min 54.96PPB m
 response 106647

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	203.21
78.00	90.20	87.77
0.00	0.00	0.00

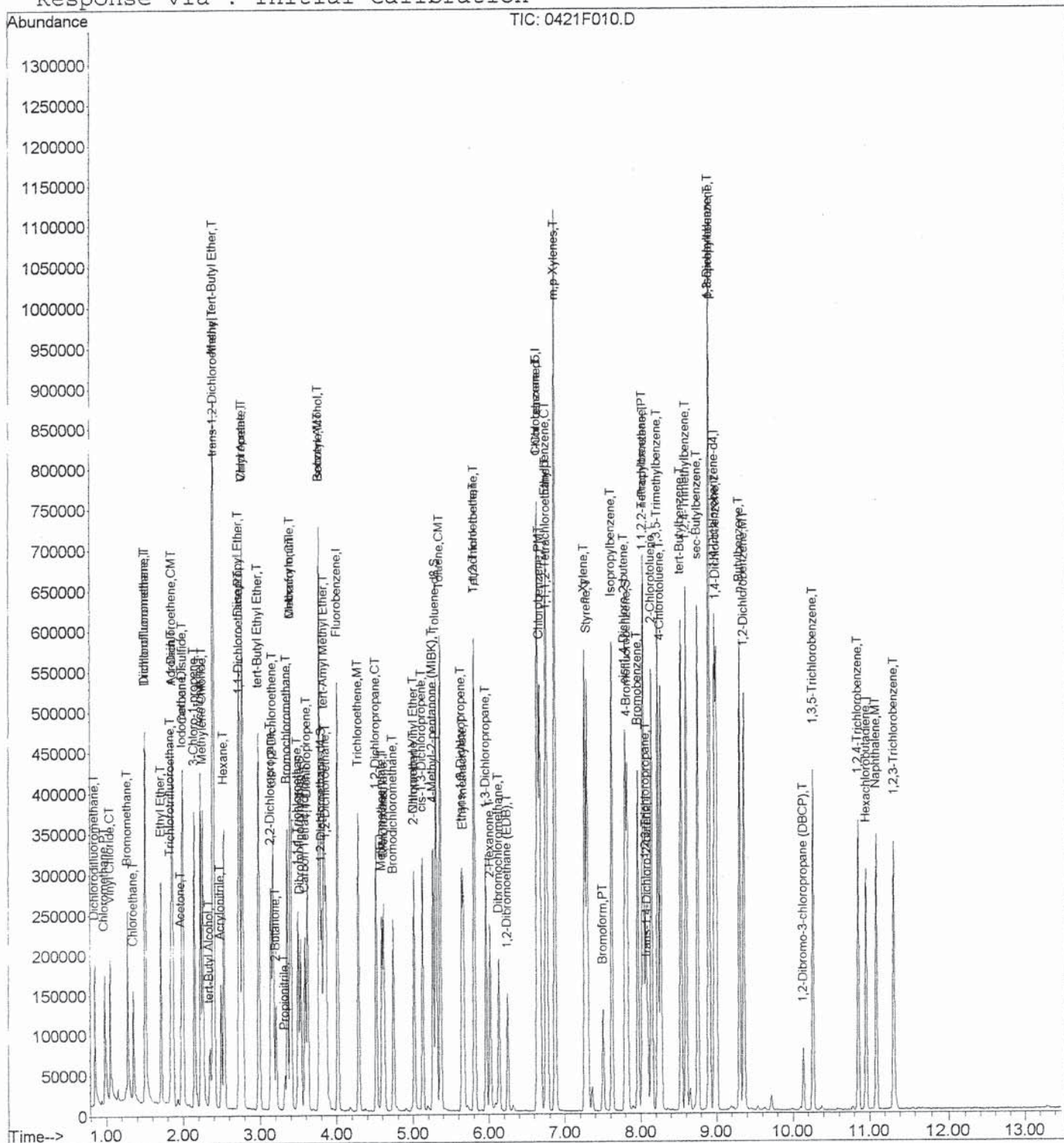
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Data File : J:\MS24\DATA\042110\0421F010.D
 Acq On : 21 Apr 2010 2:15 pm
 Sample : SOIL ICAL 50
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:32 2010

Vial: 12
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:10:01 2010
 Response via : Initial Calibration



Data File : J:\MS24\DATA\042110\0421F011.D
 Acq On : 21 Apr 2010 2:36 pm
 Sample : SOIL ICAL 100
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:52:53 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:32:32 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

KR 1/21/10

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	4.02	96	326252	50.00	PPB	0.00
59) Chlorobenzene-d5	6.65	82	143154	50.00	PPB	0.00
80) 1,4-Dichlorobenzene-d4	8.98	152	131664	50.00	PPB	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	3.53	113	117239	73.06	PPB	0.00
Spiked Amount						
						Recovery = 146.12%
42) 1,2-Dichloroethane-d4	3.81	65	163394	69.94	PPB	0.00
Spiked Amount						
						Recovery = 139.88%
57) Toluene-d8	5.31	98	429109	77.78	PPB	0.00
Spiked Amount						
						Recovery = 155.56%
79) 4-Bromofluorobenzene	7.83	95	153146	70.75	PPB	0.00
Spiked Amount						
						Recovery = 141.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.85	85	200916	99.69	PPB	97
3) Chloromethane	0.98	50	250911	96.94	PPB	95
4) Vinyl Chloride	1.05	62	228235	100.33	PPB	95
5) Bromomethane	1.28	96	183599	98.07	PPB	98
6) Chloroethane	1.35	64	150419	102.69	PPB	95
7) Dichlorofluoromethane	1.51	67	381235	103.67	PPB	96
8) Trichlorofluoromethane	1.50	101	313851	101.38	PPB	97
9) Ethyl Ether	1.71	59	189895	102.31	PPB	96
10) Acrolein	1.87	56	170835	467.86	PPB	92
11) Trichlorotrifluoroethane	1.85	151	116908	98.26	PPB	96
12) 1,1-Dichloroethene	1.87	96	133621	90.63	PPB	95
13) Acetone	1.98	43	139877	145.38	PPB	97
14) Iodomethane	1.99	142	445634	281.51	PPB	98
15) Carbon Disulfide	2.00	76	552601	105.21	PPB	98
16) 3-Chloro-1-propene	2.15	76	98970	103.49	PPB	99
17) Acetonitrile	2.23	40	293557	1968.47	PPB	96
18) Methylene Chloride	2.26	84	195378	98.28	PPB	95
19) tert-Butyl Alcohol	2.35	59	117463	405.99	PPB	95
20) Acrylonitrile	2.50	53	144912	190.42	PPB	93
21) Methyl tert-Butyl Ether	2.40	73	1166099	209.54	PPB	98
22) trans-1,2-Dichloroethene	2.41	96	170416	100.07	PPB	82
23) Hexane	2.54	57	223004	93.70	PPB	96
24) Diisopropyl Ether	2.73	45	667381	105.76	PPB	96
25) 1,1-Dichloroethane	2.75	63	344910	103.27	PPB	95
26) Vinyl Acetate	2.78	86	32095	105.13	PPB	# 79
27) Chloroprene	2.78	53	478463	215.93	PPB	94
28) tert-Butyl Ethyl Ether	2.99	59	611931	107.26	PPB	95

(#) = qualifier out of range (m) = manual integration
 0421F011.D 042110MS24SOIL.M Wed Apr 21 14:53:46 2010

Signature

Data File : J:\MS24\DATA\042110\0421F011.D
 Acq On : 21 Apr 2010 2:36 pm
 Sample : SOIL ICAL 100
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:52:53 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:32:32 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	3.15	77	241199	108.32	PPB	97
30) cis-1,2-Dichloroethene	3.17	96	196276	104.61	PPB	93
31) 2-Butanone	3.21	72	46997	188.75	PPB	# 87
32) Propionitrile	3.32	54	57489	184.25	PPB	91
33) Methacrylonitrile	3.40	67	167296	216.79	PPB	88
34) Bromochloromethane	3.36	128	97528	108.17	PPB	92
36) Chloroform	3.41	83	333797	108.56	PPB	96
37) 1,1,1-Trichloroethane	3.50	97	252256	106.63	PPB	95
39) Carbon Tetrachloride	3.59	117	213316	105.97	PPB	94
40) 1,1-Dichloropropene	3.62	75	220874	102.83	PPB	94
41) Isobutyl Alcohol	3.78	43	208799	2191.69	PPB	95
43) Benzene	3.78	78	714040	105.34	PPB	97
44) 1,2-Dichloroethane	3.87	62	288349	104.20	PPB	98
45) tert-Amyl Methyl Ether	3.84	55	147062	97.34	PPB	# 72
46) Trichloroethene	4.29	95	179630	98.02	PPB	92
48) 1,2-Dichloropropane	4.53	63	192068	105.86	PPB	99
49) Dibromomethane	4.62	93	121056	105.78	PPB	92
50) Methyl methacrylate	4.60	69	141801	119.43	PPB	93
51) 1,4-Dioxane	4.62	88	49878	2126.07	PPB	99
52) Bromodichloromethane	4.75	83	250846	115.24	PPB	97
53) 2-Nitropropane	5.02	41	158017	352.10	PPB	97
54) 2-Chloroethyl Vinyl Ether	5.02	63	124403	117.38	PPB	93
55) cis-1,3-Dichloropropene	5.13	75	290398	123.33	PPB	93
56) 4-Methyl-2-pentanone (MIBK)	5.26	58	154002	229.61	PPB	97
58) Toluene	5.36	92	434142	106.10	PPB	96
61) trans-1,3-Dichloropropene	5.65	75	248497	114.60	PPB	88
62) Ethyl methacrylate	5.67	69	235477	112.67	PPB	99
63) 1,1,2-Trichloroethane	5.81	83	140620	93.18	PPB	95
64) Tetrachloroethene	5.82	164	131482	92.27	PPB	87
65) 2-Hexanone	6.02	57	50618	208.65	PPB	# 66
66) 1,3-Dichloropropane	5.97	76	292573	98.76	PPB	88
67) Dibromochloromethane	6.13	129	177378	117.08	PPB	96
68) 1,2-Dibromoethane (EDB)	6.25	107	160961	100.76	PPB	99
69) 1-Chlorohexane	6.64	91	204314	102.49	PPB	89
70) Chlorobenzene	6.68	112	494364	100.24	PPB	98
71) Ethylbenzene	6.76	106	242049	103.38	PPB	# 78
72) 1,1,1,2-Tetrachloroethane	6.77	131	166758	108.95	PPB	97
73) m,p-Xylenes	6.87	106	608283	225.02	PPB	99
74) o-Xylene	7.27	106	303878	112.41	PPB	94
75) Styrene	7.30	103	240994m	116.35	PPB	
76) Bromoform	7.51	173	108994	120.69	PPB	90

(#) = qualifier out of range (m) = manual integration

Data File : J:\MS24\DATA\042110\0421F011.D
 Acq On : 21 Apr 2010 2:36 pm
 Sample : SOIL ICAL 100
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:52:53 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:32:32 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) Isopropylbenzene	7.62	105	710509	107.24	PPB	96
78) cis-1,4-Dichloro-2-butene	7.80	89	42736	256.34	PPB	# 79
81) 1,1,2,2-Tetrachloroethane	8.03	83	182259	93.79	PPB	89
82) trans-1,4-Dichloro-2-buten	8.10	53	46380	109.99	PPB	78
83) Bromobenzene	7.96	156	205283	100.20	PPB	97
84) n-Propylbenzene	8.04	91	872184	109.26	PPB	97
85) 1,2,3-Trichloropropane	8.07	110	65952	87.43	PPB	# 56
86) 2-Chlorotoluene	8.15	91	528945	101.79	PPB	98
87) 1,3,5-Trimethylbenzene	8.23	105	614976	109.53	PPB	98
88) 4-Chlorotoluene	8.27	91	547060	104.43	PPB	96
89) tert-Butylbenzene	8.54	119	541258	109.80	PPB	98
90) 1,2,4-Trimethylbenzene	8.60	105	646423	114.37	PPB	90
91) sec-Butylbenzene	8.76	105	811949	110.53	PPB	99
92) p-Isopropyltoluene	8.91	119	663557	108.13	PPB	97
93) 1,3-Dichlorobenzene	8.90	146	376672	99.57	PPB	100
94) 1,4-Dichlorobenzene	9.00	146	387228	97.53	PPB	94
95) n-Butylbenzene	9.31	91	597579	111.19	PPB	95
96) 1,2-Dichlorobenzene	9.36	146	378148	102.05	PPB	98
97) 1,2-Dibromo-3-chloropropan	10.14	155	25853	98.00	PPB	79
98) 1,3,5-Trichlorobenzene	10.26	180	271091	103.41	PPB	91
99) 1,2,4-Trichlorobenzene	10.86	180	232818	106.07	PPB	94
100) Hexachlorobutadiene	10.96	225	100057	82.43	PPB	97
101) Naphthalene	11.09	128	568190	109.04	PPB	97
102) 1,2,3-Trichlorobenzene	11.32	180	169842	80.01	PPB	92

(#) = qualifier out of range (m) = manual integration

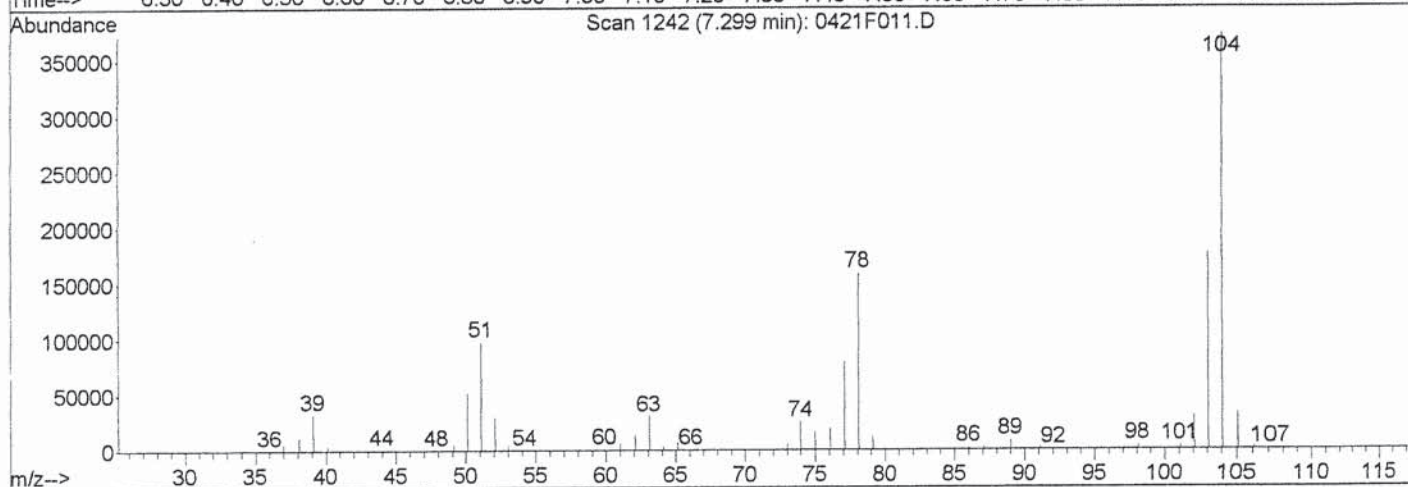
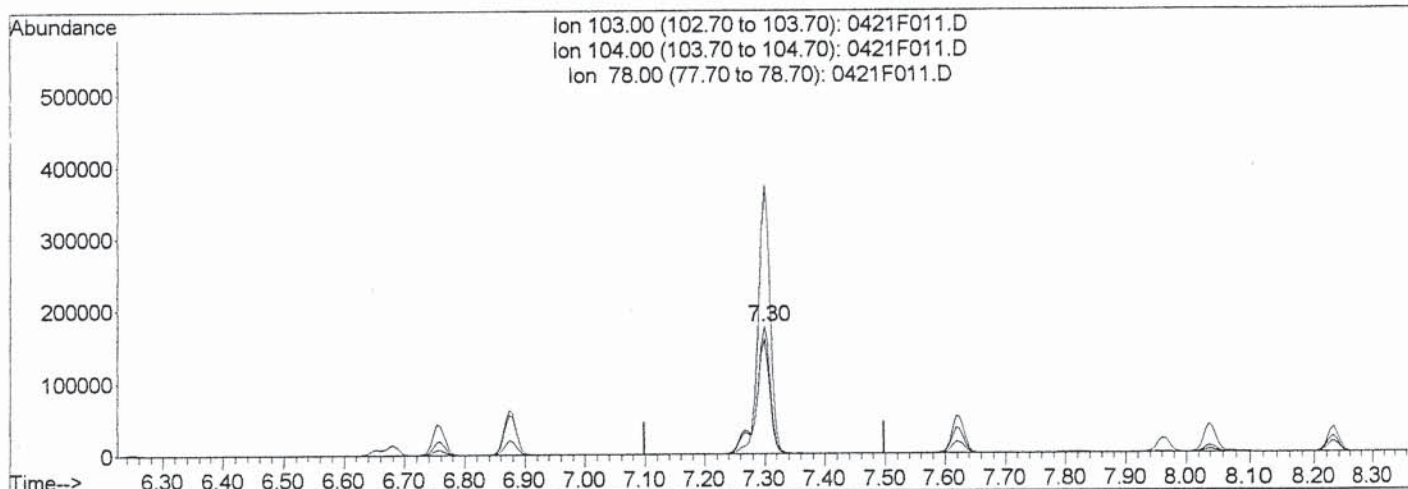
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F011.D
 Acq On : 21 Apr 2010 2:36 pm
 Sample : SOIL ICAL 100
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:53 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:32:32 2010
 Response via : Single Level Calibration



(75) Styrene (T)

7.30min 136.57PPB

response 282860

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	212.00
78.00	90.20	90.08
0.00	0.00	0.00

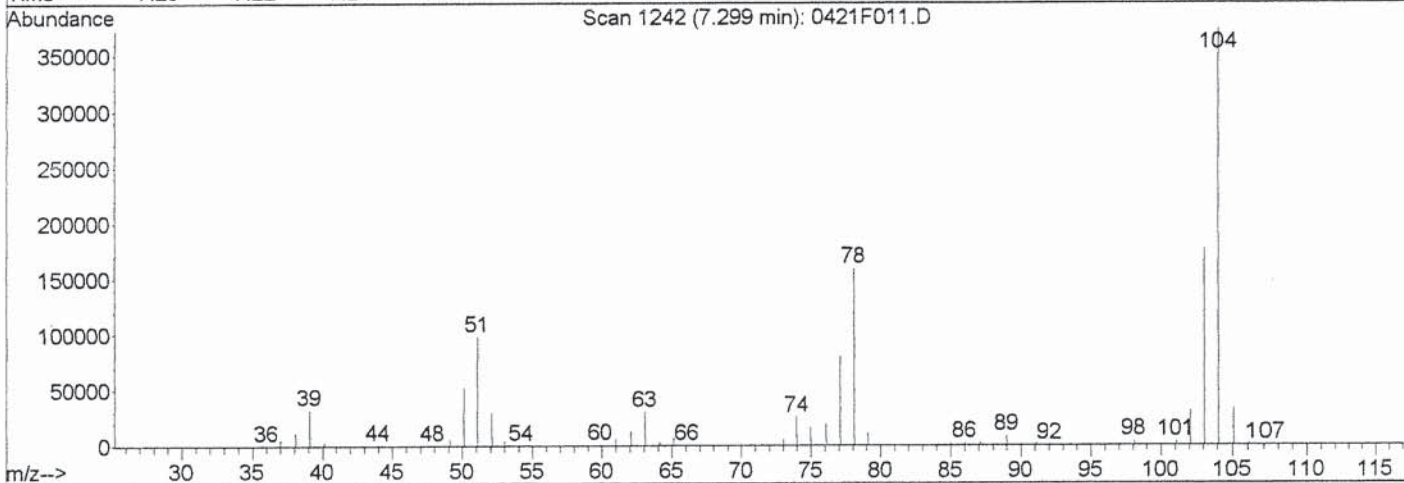
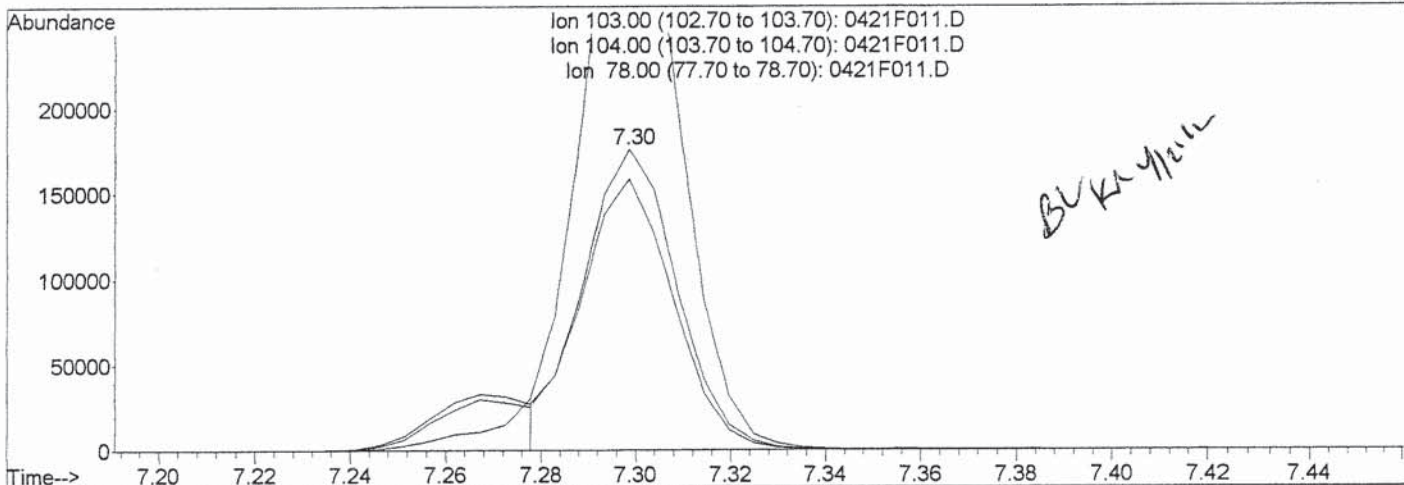
Quantitation Report (Qedit)

Data File : J:\MS24\DATA\042110\0421F011.D
 Acq On : 21 Apr 2010 2:36 pm
 Sample : SOIL ICAL 100
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 14:53 2010

Vial: 13
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:32:32 2010
 Response via : Single Level Calibration



(75) Styrene (T)
 7.30min 116.35PPB m
 response 240994

Ion	Exp%	Act%
103.00	100	100
104.00	200.50	212.00
78.00	90.20	90.08
0.00	0.00	0.00

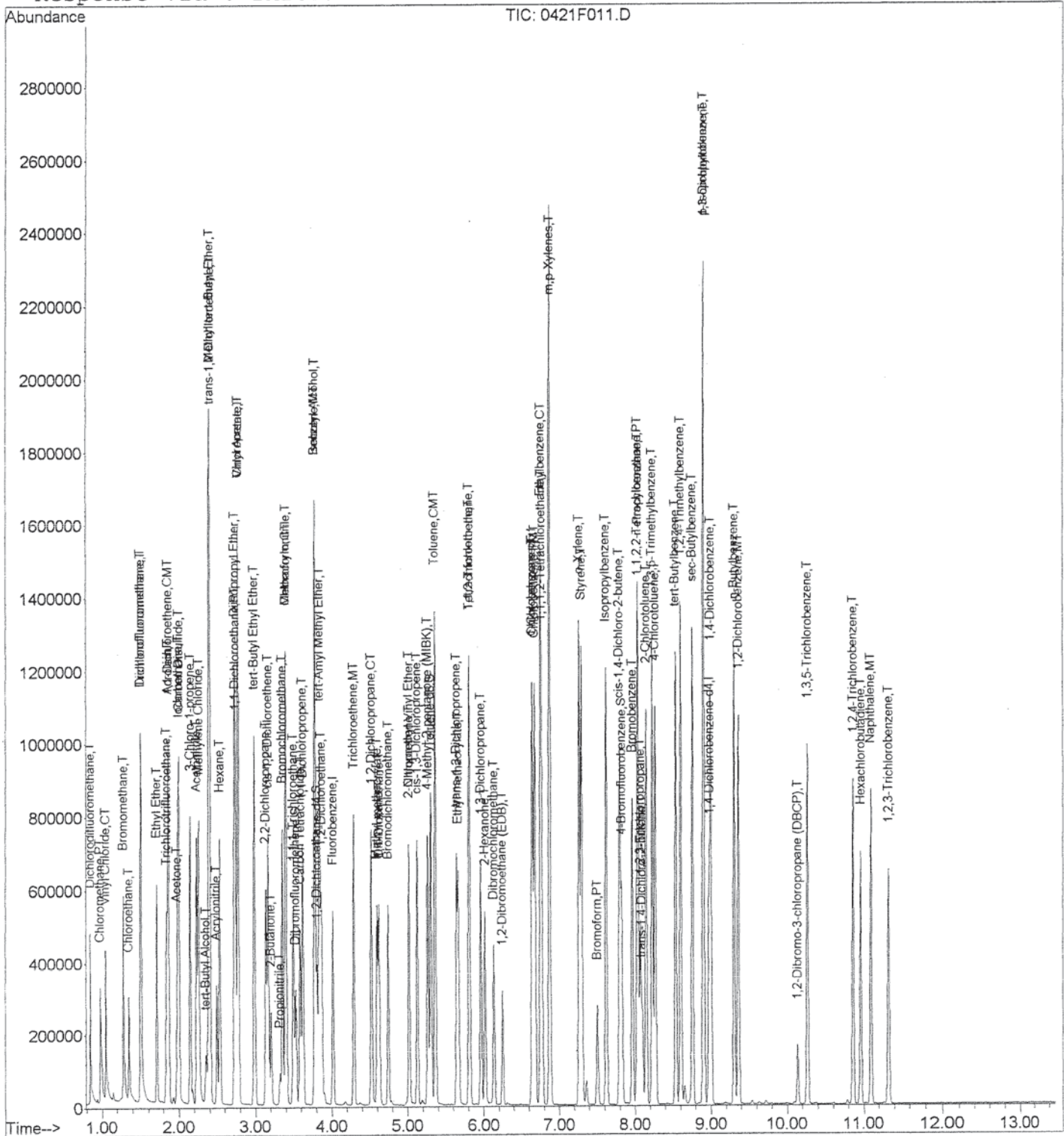
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Data File : J:\MS24\DATA\042110\0421F011.D
Acq On : 21 Apr 2010 2:36 pm
Sample : SOIL ICAL 100
Misc :
MS Integration Params: rteint.p
Quant Time: Apr 21 14:53 2010

Vial: 13
Operator: KR
Inst : MS24
Multiplr: 1.00

Quant Results File: 042110MS24SO

Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
Title : VOA MS24 EPA Method 8260B
Last Update : Wed Apr 21 14:32:32 2010
Response via : Initial Calibration



Data File : J:\MS24\DATA\042110\0421F012.D
 Acq On : 21 Apr 2010 2:57 pm
 Sample : SOIL ICAL 200
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 15:32:48 2010

Vial: 14
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:54:43 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

KR 4/21/10

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	4.01	96	330206	50.00	PPB	-0.01
59) Chlorobenzene-d5	6.65	82	146708	50.00	PPB	0.00
80) 1,4-Dichlorobenzene-d4	8.98	152	130673	50.00	PPB	0.00
System Monitoring Compounds						
38) Dibromofluoromethane	3.53	113	139985	85.56	PPB	0.00
Spiked Amount	50.000		Recovery	=	171.12%	
42) 1,2-Dichloroethane-d4	3.81	65	202165	85.52	PPB	0.00
Spiked Amount	50.000		Recovery	=	171.04%	
57) Toluene-d8	5.31	98	506060	88.98	PPB	0.00
Spiked Amount	50.000		Recovery	=	177.96%	
79) 4-Bromofluorobenzene	7.83	95	190868	85.89	PPB	0.00
Spiked Amount	50.000		Recovery	=	171.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.84	85	436976	214.33	PPB	97
3) Chloromethane	0.97	50	533074	204.38	PPB	95
4) Vinyl Chloride	1.04	62	483865	210.05	PPB	98
5) Bromomethane	1.27	96	401111	212.51	PPB	99
6) Chloroethane	1.34	64	319333	214.25	PPB	97
7) Dichlorofluoromethane	1.50	67	798428	213.39	PPB	95
8) Trichlorofluoromethane	1.49	101	684572	217.99	PPB	96
9) Ethyl Ether	1.70	59	397518	210.91	PPB	96
10) Acrolein	1.85	56	389260	1063.04	PPB	91
11) Trichlorotrifluoroethane	1.84	151	262892	218.94	PPB	94
12) 1,1-Dichloroethene	1.86	96	297437	214.20	PPB	95
13) Acetone	1.97	43	302643	379.45	PPB	98
14) Iodomethane	1.98	142	966238	557.62	PPB	99
15) Carbon Disulfide	1.99	76	1219159	227.65	PPB	97
16) 3-Chloro-1-propene	2.14	76	218476	224.15	PPB	97
17) Acetonitrile	2.22	40	648542	4308.09	PPB	97
18) Methylene Chloride	2.25	84	409896	204.42	PPB	96
19) tert-Butyl Alcohol	2.34	59	268026	944.90	PPB	96
20) Acrylonitrile	2.49	53	328562	429.52	PPB	95
21) Methyl tert-Butyl Ether	2.39	73	2618970	461.83	PPB	99
22) trans-1,2-Dichloroethene	2.40	96	373116	216.46	PPB	86
23) Hexane	2.53	57	497927	208.58	PPB	96
24) Diisopropyl Ether	2.72	45	1458779	226.54	PPB	96
25) 1,1-Dichloroethane	2.74	63	747986	220.24	PPB	96
26) Vinyl Acetate	2.77	86	70994	227.43	PPB	# 66
27) Chloroprene	2.77	53	1087766	479.57	PPB	97
28) tert-Butyl Ethyl Ether	2.98	59	1327752	227.58	PPB	95

(#) = qualifier out of range (m) = manual integration

KR 4/21/10

Data File : J:\MS24\DATA\042110\0421F012.D
 Acq On : 21 Apr 2010 2:57 pm
 Sample : SOIL ICAL 200
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Apr 21 15:32:48 2010

Vial: 14
 Operator: KR
 Inst : MS24
 Multiplr: 1.00

Quant Results File: 042110MS24SOIL.

Quant Method : J:\MS24\METHODS\042110MS24SOIL.M (RTE Integrator)
 Title : VOA MS24 EPA Method 8260B
 Last Update : Wed Apr 21 14:54:43 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	3.14	77	533126	232.68	PPB	98
30) cis-1,2-Dichloroethene	3.17	96	420285	219.87	PPB	96
31) 2-Butanone	3.20	72	104661	420.03	PPB	# 84
32) Propionitrile	3.31	54	125804	403.67	PPB	92
33) Methacrylonitrile	3.39	67	372164	469.92	PPB	89
34) Bromochloromethane	3.35	128	208721	225.04	PPB	91
36) Chloroform	3.40	83	726206	230.06	PPB	98
37) 1,1,1-Trichloroethane	3.50	97	546937	225.94	PPB	95
39) Carbon Tetrachloride	3.59	117	478266	231.98	PPB	95
40) 1,1-Dichloropropene	3.62	75	489781	224.39	PPB	95
41) Isobutyl Alcohol	3.77	43	465528	4752.07	PPB	95
43) Benzene	3.78	78	1569828	227.09	PPB	98
44) 1,2-Dichloroethane	3.86	62	623023	221.12	PPB	98
45) tert-Amyl Methyl Ether	3.84	55	321088	210.79	PPB	# 72
46) Trichloroethene	4.28	95	392738	212.34	PPB	90
48) 1,2-Dichloropropane	4.52	63	401287	216.71	PPB	99
49) Dibromomethane	4.62	93	249595	213.03	PPB	94
50) Methyl methacrylate	4.60	69	298658	239.23	PPB	91
51) 1,4-Dioxane	4.61	88	102318	4255.47	PPB	97
52) Bromodichloromethane	4.75	83	528554	232.82	PPB	96
53) 2-Nitropropane	5.02	41	363289	780.45	PPB	92
54) 2-Chloroethyl Vinyl Ether	5.02	63	269945	243.20	PPB	92
55) cis-1,3-Dichloropropene	5.13	75	627929	251.73	PPB	94
56) 4-Methyl-2-pentanone (MIBK)	5.26	58	325101	465.13	PPB	94
58) Toluene	5.36	92	916260	219.01	PPB	95
61) trans-1,3-Dichloropropene	5.65	75	565538	247.27	PPB	90
62) Ethyl methacrylate	5.67	69	528893	240.83	PPB	99
63) 1,1,2-Trichloroethane	5.81	83	306558	200.16	PPB	93
64) Tetrachloroethene	5.81	164	296977	205.63	PPB	90
65) 2-Hexanone	6.02	57	114173	455.94	PPB	# 69
66) 1,3-Dichloropropane	5.97	76	622357	205.36	PPB	88
67) Dibromochloromethane	6.13	129	395747	246.47	PPB	97
68) 1,2-Dibromoethane (EDB)	6.25	107	359567	219.36	PPB	99
69) 1-Chlorohexane	6.64	91	467237	227.89	PPB	88
70) Chlorobenzene	6.68	112	1067934	211.21	PPB	99
71) Ethylbenzene	6.76	106	549447	227.70	PPB	# 77
72) 1,1,1,2-Tetrachloroethane	6.77	131	389221	243.78	PPB	96
73) m,p-Xylenes	6.87	106	1351009	479.10	PPB	94
74) o-Xylene	7.27	106	645306	227.29	PPB	92
75) Styrene	7.30	103	520670m	237.52	PPB	
76) Bromoform	7.51	173	244615	253.80	PPB	90

(#) = qualifier out of range (m) = manual integration