

APPENDIX G
LABORATORY REPORTS

ANALYTICAL REPORT

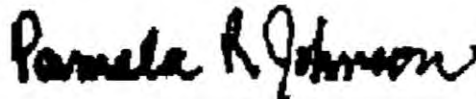
Job Number: 580-12857-1

Job Description: Port of Olympia Berths 2&3

For:

Anchor Environmental LLC
1423 3rd Avenue, Ste 300
Seattle, WA 98101

Attention: Joy Dunay



Approved for release
Pam R Johnson
Project Mgmt. Assistant
4/1/2009 3:04 PM

Pam R Johnson
Project Mgmt. Assistant
pamr.johnson@testamericainc.com
04/01/2009
Revision: 2

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

TestAmerica Laboratories, Inc.

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Job Narrative
580-J12857-1

Comments

› additional comments.

Receipt

The inside temperature of the sample cooler was 7.8 degrees celsius upon receipt. The samples were in the cooling process upon delivery to the laboratory. Those samples affected were analyzed as requested.

General Chemistry

No analytical or quality issues were noted.

Geotechnical

No analytical or quality issues were noted.

METHOD SUMMARY

Client: Anchor Environmental LLC

Job Number: 580-12857-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
TOC (Puget Sound)	TAL TAC	PSEP 9060_PSEP	
Water (Moisture) Content	TAL TAC	ASTM D2216-90	

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

ASTM = ASTM International

PSEP = Puget Sound Estuary Program

SAMPLE SUMMARY

Client: Anchor Environmental LLC

Job Number: 580-12857-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-12857-1	PO-BA-24-SS-A090226	Solid	02/26/2009 1150	02/26/2009 1348
580-12857-2	PO-BA-25-SS-A090226	Solid	02/26/2009 1105	02/26/2009 1348
580-12857-3	PO-BA-26-SS-A090226	Solid	02/26/2009 1120	02/26/2009 1348
580-12857-4	PO-BA-27B-SS-A090226	Solid	02/26/2009 1025	02/26/2009 1348
580-12857-4MS	PO-BA-27B-SS-A090226	Solid	02/26/2009 1025	02/26/2009 1348

Analytical Data

Client: Anchor Environmental LLC

Job Number: 580-12857-1

General Chemistry

Client Sample ID: PO-BA-24-SS-A090226

Lab Sample ID: 580-12857-1
Client Matrix: Solid

Date Sampled: 02/26/2009 1150
Date Received: 02/26/2009 1348

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	40000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41443		Date Analyzed	03/11/2009 1052			DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	280		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-41747		Date Analyzed	03/23/2009 1533			DryWt Corrected: N

Percent Solids	25		%	0.10	0.10	1.0	160.3
	Anly Batch: 580-41080		Date Analyzed	02/27/2009 1317			

Percent Moisture	75		%	0.10	0.10	1.0	160.3
	Anly Batch: 580-41080		Date Analyzed	02/27/2009 1317			

Client Sample ID: PO-BA-25-SS-A090226

Lab Sample ID: 580-12857-2
Client Matrix: Solid

Date Sampled: 02/26/2009 1105
Date Received: 02/26/2009 1348

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	41000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41443		Date Analyzed	03/11/2009 1052			DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	220		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-41747		Date Analyzed	03/23/2009 1533			DryWt Corrected: N

Percent Solids	30		%	0.10	0.10	1.0	160.3
	Anly Batch: 580-41080		Date Analyzed	02/27/2009 1317			

Percent Moisture	70		%	0.10	0.10	1.0	160.3
	Anly Batch: 580-41080		Date Analyzed	02/27/2009 1317			

Analytical Data

Client: Anchor Environmental LLC

Job Number: 580-12857-1

General Chemistry

Client Sample ID: PO-BA-26-SS-A090226

Lab Sample ID: 580-12857-3
 Client Matrix: Solid

Date Sampled: 02/26/2009 1120
 Date Received: 02/26/2009 1348

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	47000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41443		Date Analyzed	03/11/2009	1052		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	230		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-41747		Date Analyzed	03/23/2009	1533		DryWt Corrected: N

Percent Solids	30		%	0.10	0.10	1.0	160.3
	Anly Batch: 580-41080		Date Analyzed	02/27/2009	1317		

Percent Moisture	70		%	0.10	0.10	1.0	160.3
	Anly Batch: 580-41080		Date Analyzed	02/27/2009	1317		

Client Sample ID: PO-BA-27B-SS-A090226

Lab Sample ID: 580-12857-4
 Client Matrix: Solid

Date Sampled: 02/26/2009 1025
 Date Received: 02/26/2009 1348

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	34000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41443		Date Analyzed	03/11/2009	1052		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	250		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-41747		Date Analyzed	03/23/2009	1533		DryWt Corrected: N

Percent Solids	28		%	0.10	0.10	1.0	160.3
	Anly Batch: 580-41080		Date Analyzed	02/27/2009	1317		

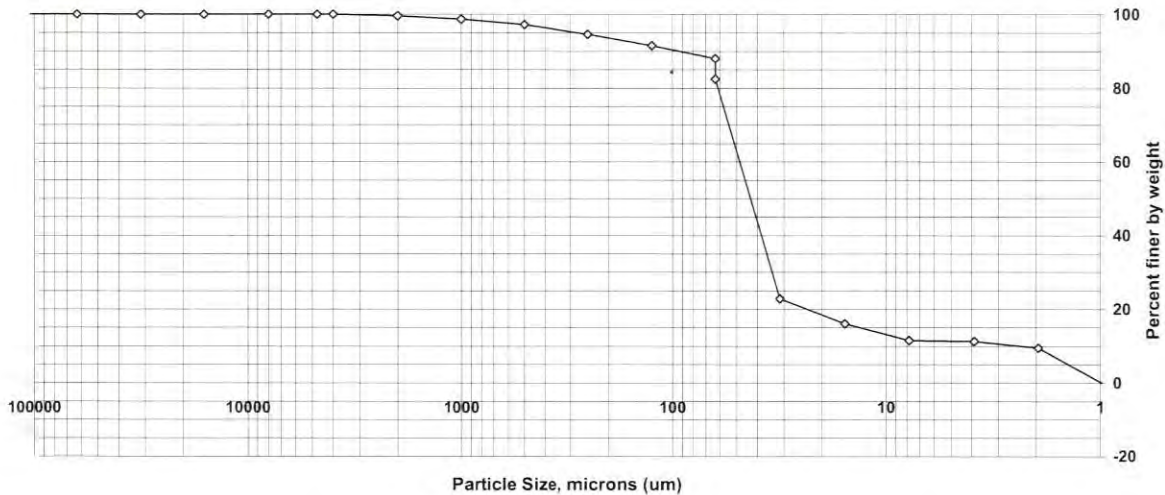
Percent Moisture	72		%	0.10	0.10	1.0	160.3
	Anly Batch: 580-41080		Date Analyzed	02/27/2009	1317		

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-BA-24-SS-A090226
 Lab ID: 580-12857-A-1

Percent Solids: 25.31569%
 Specific Gravity: 2.650

Date Received: 2/26/2009
 Start Date: 2/27/2009
 End Date: 3/6/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	99.6	0.4
#18	1000	98.7	0.9
#35	500	97.2	1.5
#60	250	94.6	2.6
#120	125	91.5	3.1
#230	63	88.0	3.5
Phi Size 4	63	82.5	5.5
Phi Size 5	31.42	22.9	59.6
Phi Size 6	15.6	16.1	6.8
Phi Size 7	7.8	11.5	4.6
Phi Size 8	3.9	11.3	0.2
Phi Size 9	1.95	9.5	1.8
Phi Size 10	0.98	0.0	9.5
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	0.4
Sand	17.1
Very Coarse Sand	0.9
Coarse Sand	1.5
Medium Sand	2.6
Fine Sand	3.1
Very Fine Sand	9.0
Silt	71.2
Coarse Silt	59.6
Medium Silt	6.8
Fine Silt	4.6
Very Fine Silt	0.2
Clay	11.3
Coarse Clay	1.8
Medium Clay	9.5

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Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-BA-24-SS-A090226
 Lab Sample ID 580-12857-A-1

Date Received 2/26/2009
 Start Date 2/27/2009
 End Date 3/6/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 74.68431 %

Default Soil Gravity 2.65

Sample Weights

Tare	Pan+Sample	Sample
		213.9807
		47.3347

SHMP test

Standard ID 10/15/2008
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 3.4
 Weight of aliquot 5 (mg) 2.4
 Average Weight (mg) 2.5

Sample Split

Tare	Pan+Sample	Sample
		5.6697
		41.665
		88

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.1834	0.1834 g	99.6	Gravel	
#18	1000	0	0.4214	0.4214 g	98.7	Sand	Coarse
#35	500	0	0.6978	0.6978 g	97.2	Sand	Medium
#60	250	0	1.239	1.239 g	94.6	Sand	Medium
#120	125	0	1.4802	1.4802 g	91.5	Sand	Fine
#230	63	0	1.6479	1.6479 g	88.0	Sand	Fine
				0 g	88.0	Sand	Fine
Remainder				0 g			

Number of aliquots SHMP used 5

Silt/Clay Fraction (Pipette Test)

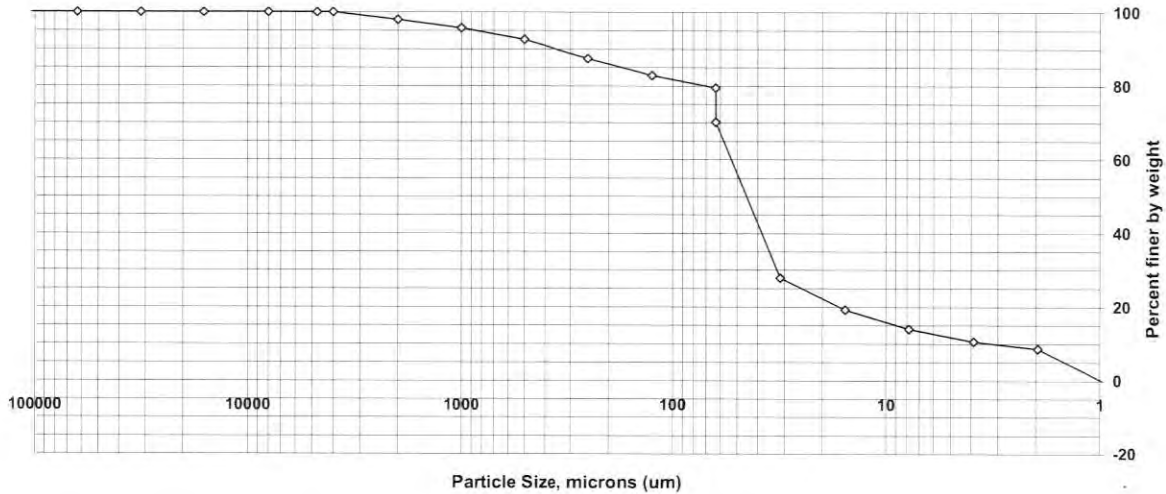
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	54.1021	54.9479	0.8333	2.6	5.492799152	82.507201	Sand	Very Fine
5	31.42	20	00:01:54	10	49.5264	50.3202	0.7813	28.235	59.64968617	22.857515	Silt	Coarse
6	15.6	20	00:07:36	10	52.8142	53.0433	0.2166	3.205	6.770931262	16.086583	Silt	Medium
7	7.8	20	00:30:26	10	53.7046	53.8696	0.1525	2.155	4.552685451	11.533898	Silt	Fine
8	3.9	20	02:02:00	10	51.1262	51.2481	0.1094	0.11	0.232387656	11.30151	Silt	Very Fine
9	1.95	20	08:06:00	10	54.6036	54.7233	0.1072	0.87	1.837975101	9.4635352	Clay	Coarse
10	0.98	20	32:28:00	10	50.323	50.4253	0.0898	4.49	9.485641612	-0.0221064	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-BA-25-SS-A090226
 Lab ID: 580-12857-A-2

Percent Solids: 29.84099%
 Specific Gravity: 2.650

Date Received: 2/26/2009
 Start Date: 2/27/2009
 End Date: 3/6/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	98.0	2.0
#18	1000	95.7	2.3
#35	500	92.6	3.1
#60	250	87.4	5.2
#120	125	82.9	4.5
#230	63	79.5	3.4
Phi Size 4	63	70.2	9.3
Phi Size 5	31.42	27.9	42.4
Phi Size 6	15.6	19.3	8.6
Phi Size 7	7.8	14.0	5.3
Phi Size 8	3.9	10.6	3.4
Phi Size 9	1.95	8.6	2.0
Phi Size 10	0.98	0.0	8.6
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	2.0
Sand	27.8
Very Coarse Sand	2.3
Coarse Sand	3.1
Medium Sand	5.2
Fine Sand	4.5
Very Fine Sand	12.7
Silt	59.6
Coarse Silt	42.4
Medium Silt	8.6
Fine Silt	5.3
Very Fine Silt	3.4
Clay	10.6
Coarse Clay	2.0
Medium Clay	8.6

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Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-BA-25-SS-A090226
 Lab Sample ID 580-12857-A-2

Date Received 2/26/2009
 Start Date 2/27/2009
 End Date 3/6/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 70.15901 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			173.0098
Sample Weight (dry)			48.6583

SHMP test

Standard ID 10/15/2008
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 3.4
 Weight of aliquot 5 (mg) 2.4
 Average Weight (mg) 2.5

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			10.0133
Sample <#230			38.645
% Passing #230			79.4

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.9873	0.9873 g	98.0	Gravel	
#18	1000	0	1.1429	1.1429 g	95.7	Sand	Coarse
#35	500	0	1.5309	1.5309 g	92.6	Sand	Medium
#60	250	0	2.5281	2.5281 g	87.4	Sand	Medium
#120	125	0	2.1843	2.1843 g	82.9	Sand	Fine
#230	63	0	1.6398	1.6398 g	79.5	Sand	Fine
				0 g	79.5	Sand	Fine
				0 g	79.5		
Remainder				0 g			

Number of aliquots SHMP used 3

Silt/Clay Fraction (Pipette Test)

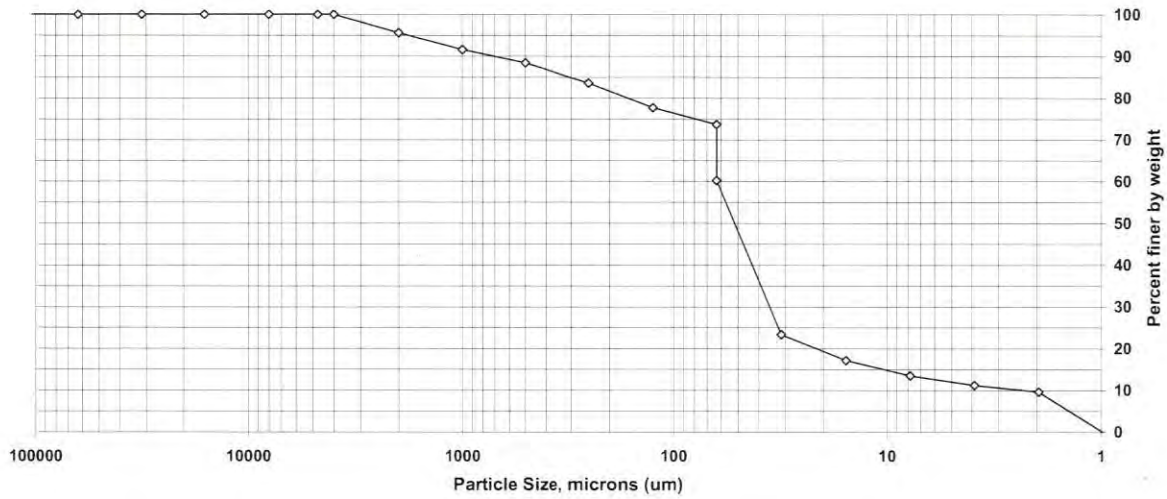
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	51.6435	52.4239	0.7729	4.46	9.165959353	70.234041	Sand	Very Fine
5	31.42	20	00:01:54	10	53.5779	54.2691	0.6837	20.615	42.36687266	27.867168	Silt	Coarse
6	15.6	20	00:07:36	10	53.8139	54.0928	0.2714	4.18	8.590517959	19.27665	Silt	Medium
7	7.8	20	00:30:26	10	52.3999	52.5952	0.1878	2.56	5.261178463	14.015472	Silt	Fine
8	3.9	20	02:02:00	10	51.0794	51.2235	0.1366	1.665	3.421821149	10.59365	Silt	Very Fine
9	1.95	20	08:06:00	10	52.4796	52.5904	0.1033	0.96	1.972941924	8.6207085	Clay	Coarse
10	0.98	20	32:28:00	10	51.4327	51.5243	0.0841	4.205	8.641896655	-0.0211882	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-BA-26-SS-A090226
 Lab ID: 580-12857-A-3

Percent Solids: 30.01863%
 Specific Gravity: 2.650

Date Received: 2/26/2009
 Start Date: 2/27/2009
 End Date: 3/6/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	95.6	4.4
#18	1000	91.6	4.0
#35	500	88.4	3.2
#60	250	83.6	4.8
#120	125	77.7	5.9
#230	63	73.7	4.0
Phi Size 4	63	60.2	13.5
Phi Size 5	31.42	23.4	36.9
Phi Size 6	15.6	17.2	6.2
Phi Size 7	7.8	13.5	3.7
Phi Size 8	3.9	11.2	2.4
Phi Size 9	1.95	9.6	1.6
Phi Size 10	0.98	0.0	9.6
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	4.4
Sand	35.4
Very Coarse Sand	4.0
Coarse Sand	3.2
Medium Sand	4.8
Fine Sand	5.9
Very Fine Sand	17.5
Silt	49.0
Coarse Silt	36.9
Medium Silt	6.2
Fine Silt	3.7
Very Fine Silt	2.4
Clay	11.2
Coarse Clay	1.6
Medium Clay	9.6

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Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-BA-26-SS-A090226
 Lab Sample ID 580-12857-A-3

Date Received 2/26/2009
 Start Date 2/27/2009
 End Date 3/6/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 69.98137 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			169.9138
Sample Weight (dry)			42.2382

SHMP test

Standard ID 10/15/2008
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 3.4
 Weight of aliquot 5 (mg) 2.4
 Average Weight (mg) 2.5

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			11.1582
Sample <#230			31.08
% Passing #230			73.6

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	1.8611	1.8611 g	95.6	Gravel	
#18	1000	0	1.7037	1.7037 g	91.6	Sand	Coarse
#35	500	0	1.347	1.347 g	88.4	Sand	Medium
#60	250	0	2.0389	2.0389 g	83.6	Sand	Medium
#120	125	0	2.5071	2.5071 g	77.7	Sand	Fine
#230	63	0	1.7004	1.7004 g	73.7	Sand	Fine
				0 g	73.7	Sand	Fine
				0 g			
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

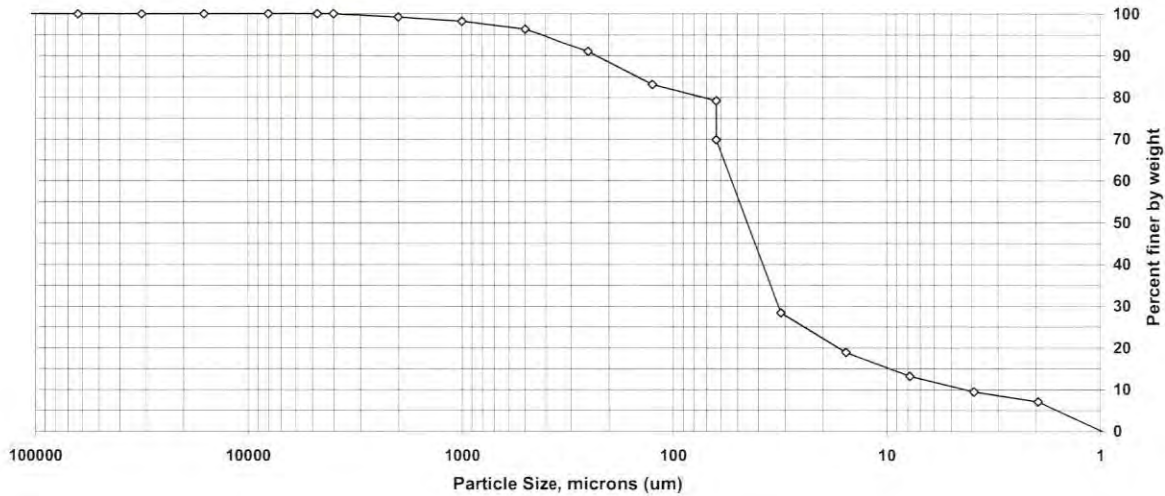
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (h:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	51.3367	51.9608	0.6216		5.65	13.37651699	Sand	Very Fine
5	31.42	20	00:01:54	10	52.7159	53.227	0.5086		15.565	36.85052867	Silt	Coarse
6	15.6	20	00:07:36	10	51.6299	51.8297	0.1973		2.61	6.179240593	Silt	Medium
7	7.8	20	00:30:26	10	52.7381	52.8857	0.1451		1.545	3.657826328	Silt	Fine
8	3.9	20	02:02:00	10	49.5214	49.6381	0.1142		0.995	2.355687506	Silt	Very Fine
9	1.95	20	08:06:00	10	52.7576	52.8544	0.0943		0.665	1.574404212	Clay	Coarse
10	0.98	20	32:28:00	10	52.0954	52.1789	0.081		4.05	9.588476782	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-BA-27B-SS-A090226
 Lab ID: 580-12857-A-4

Percent Solids: 27.77525%
 Specific Gravity: 2.650

Date Received: 2/26/2009
 Start Date: 2/27/2009
 End Date: 3/6/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	99.2	0.8
#18	1000	98.2	1.0
#35	500	96.3	1.9
#60	250	91.0	5.3
#120	125	83.1	7.9
#230	63	79.2	3.9
Phi Size 4	63	69.9	9.3
Phi Size 5	31.42	28.4	41.5
Phi Size 6	15.6	18.9	9.5
Phi Size 7	7.8	13.2	5.7
Phi Size 8	3.9	9.5	3.7
Phi Size 9	1.95	7.1	2.4
Phi Size 10	0.98	0.0	7.1
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	0.8
Sand	29.3
Very Coarse Sand	1.0
Coarse Sand	1.9
Medium Sand	5.3
Fine Sand	7.9
Very Fine Sand	13.2
Silt	60.4
Coarse Silt	41.5
Medium Silt	9.5
Fine Silt	5.7
Very Fine Silt	3.7
Clay	9.4
Coarse Clay	2.4
Medium Clay	7.1

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-BA-27B-SS-A090226
 Lab Sample ID 580-12857-A-4

Date Received 2/26/2009
 Start Date 2/27/2009
 End Date 3/6/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 72.22475 %

Default Soil Gravity 2.65

Sample Weights

Tare	Pan+Sample	Sample
		195.0215
		51.6535

SHMP test

Standard ID 10/15/2008
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 3.4
 Weight of aliquot 5 (mg) 2.4
 Average Weight (mg) 2.5

Sample Split

Tare	Pan+Sample	Sample
		10.7085
		40.945
		79.3

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.4139	0.4139 g	99.2	Gravel	
#18	1000	0	0.5093	0.5093 g	98.2	Sand	Coarse
#35	500	0	0.9764	0.9764 g	96.3	Sand	Medium
#60	250	0	2.7126	2.7126 g	91.0	Sand	Medium
#120	125	0	4.0915	4.0915 g	83.1	Sand	Fine
#230	63	0	2.0048	2.0048 g	79.2	Sand	Fine
				0 g	79.2	Sand	Fine
Remainder				0 g			

Number of aliquots SHMP used 2

Silt/Clay Fraction (Pipette Test)

Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (ht:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	52.0245	52.8484	0.8189	4.86	9.408849352	69.891151	Sand	Very Fine
5	31.42	20	00:01:54	10	50.5355	51.2622	0.7217	21.44	41.50735187	28.383799	Silt	Coarse
6	15.6	20	00:07:36	10	53.0577	53.3556	0.2929	4.91	9.505648214	18.878151	Silt	Medium
7	7.8	20	00:30:26	10	51.6676	51.8673	0.1947	2.93	5.672413292	13.205737	Silt	Fine
8	3.9	20	02:02:00	10	49.6793	49.8204	0.1361	1.925	3.726756173	9.4789811	Silt	Very Fine
9	1.95	20	08:06:00	10	53.5185	53.6211	0.0976	1.225	2.37157211	7.107409	Clay	Coarse
10	0.98	20	32:28:00	10	50.7598	50.8379	0.0731	3.655	7.075996786	0.0314122	Clay	Medium
			not defined	10								

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-12857-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:580-41080					
580-12857-1	PO-BA-24-SS-A090226	T	Solid	160.3	
580-12857-2	PO-BA-25-SS-A090226	T	Solid	160.3	
580-12857-3	PO-BA-26-SS-A090226	T	Solid	160.3	
580-12857-4	PO-BA-27B-SS-A090226	T	Solid	160.3	
580-12857-4DU	Duplicate	T	Solid	160.3	
Analysis Batch:580-41443					
LCSSRM 580-41443/2	LCS-Standard Reference Material	T	Solid	9060_PSEP	
MB 580-41443/1	Method Blank	T	Solid	9060_PSEP	
580-12857-1	PO-BA-24-SS-A090226	T	Solid	9060_PSEP	
580-12857-2	PO-BA-25-SS-A090226	T	Solid	9060_PSEP	
580-12857-3	PO-BA-26-SS-A090226	T	Solid	9060_PSEP	
580-12857-4	PO-BA-27B-SS-A090226	T	Solid	9060_PSEP	
580-12857-4DU	Duplicate	T	Solid	9060_PSEP	
580-12857-4MS	Matrix Spike	T	Solid	9060_PSEP	
580-12857-4MSD	Matrix Spike Duplicate	T	Solid	9060_PSEP	
Analysis Batch:580-41747					
580-12857-1	PO-BA-24-SS-A090226	T	Solid	D2216-90	
580-12857-2	PO-BA-25-SS-A090226	T	Solid	D2216-90	
580-12857-3	PO-BA-26-SS-A090226	T	Solid	D2216-90	
580-12857-4	PO-BA-27B-SS-A090226	T	Solid	D2216-90	

Report Basis

T = Total

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-12857-1

Duplicate - Batch: 580-41080

Method: 160.3
Preparation: N/A

Lab Sample ID: 580-12857-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 02/27/2009 1318
Date Prepared: N/A

Analysis Batch: 580-41080
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	28	28	0	20	
Percent Moisture	72	72	0	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-12857-1

Method Blank - Batch: 580-41443

**Method: 9060_PSEP
Preparation: N/A**

Lab Sample ID: MB 580-41443/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/11/2009 1052
Date Prepared: N/A

Analysis Batch: 580-41443
Prep Batch: N/A
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon	ND		610	2000

LCS-Standard Reference Material - Batch:

**Method: 9060_PSEP
Preparation: N/A**

Lab Sample ID: LCSSRM 580-41443/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/11/2009 1052
Date Prepared: N/A

Analysis Batch: 580-41443
Prep Batch: N/A
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon	3400	5000	147	12.8 - 187	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-41443**

**Method: 9060_PSEP
Preparation: N/A**

MS Lab Sample ID: 580-12857-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/11/2009 1052
Date Prepared: N/A

Analysis Batch: 580-41443
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 49.7 mg
Final Weight/Volume: 49.7 mg

MSD Lab Sample ID: 580-12857-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/11/2009 1052
Date Prepared: N/A

Analysis Batch: 580-41443
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50.5 mg
Final Weight/Volume: 50.5 mg

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Total Organic Carbon	92	91	76 - 128	1	28		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-12857-1

Matrix Spike/ Matrix Spike Duplicate Data Report - Batch: 580-41443

Method: 9060_PSEP
Preparation: N/A

MS Lab Sample ID: 580-12857-4 Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/11/2009 1052
Date Prepared: N/A

MSD Lab Sample ID: 580-12857-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/11/2009 1052
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon	34000	20100	19800	53100	52600

Duplicate - Batch: 580-41443

Method: 9060_PSEP
Preparation: N/A

Lab Sample ID: 580-12857-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/11/2009 1052
Date Prepared: N/A

Analysis Batch: 580-41443
Prep Batch: N/A
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Organic Carbon	34000	35700	3	20	
Total Organic Carbon	34000	34900	1	20	

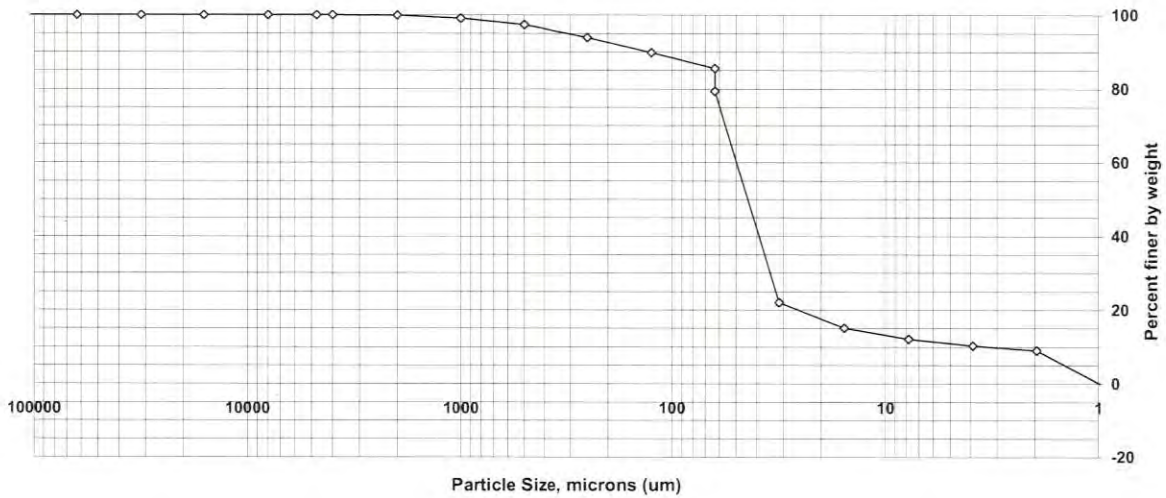
Calculations are performed before rounding to avoid round-off errors in calculated results.

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-BA-24-SS-A090226
 Lab ID: 580-12857-A-1DU

Percent Solids: 25.31569%
 Specific Gravity: 2.650

Date Received: 2/26/2009
 Start Date: 2/27/2009
 End Date: 3/6/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	99.9	0.1
#18	1000	99.1	0.8
#35	500	97.4	1.7
#60	250	93.9	3.5
#120	125	89.8	4.1
#230	63	85.6	4.2
Phi Size 4	63	79.4	6.2
Phi Size 5	31.42	22.0	57.3
Phi Size 6	15.6	15.1	6.9
Phi Size 7	7.8	12.1	3.0
Phi Size 8	3.9	10.3	1.9
Phi Size 9	1.95	9.0	1.3
Phi Size 10	0.98	0.0	9.0
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	0.1
Sand	20.5
Very Coarse Sand	0.8
Coarse Sand	1.7
Medium Sand	3.5
Fine Sand	4.1
Very Fine Sand	10.4
Silt	69.1
Coarse Silt	57.3
Medium Silt	6.9
Fine Silt	3.0
Very Fine Silt	1.9
Clay	10.3
Coarse Clay	1.3
Medium Clay	9.0

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-BA-24-SS-A090226
 Lab Sample ID 580-12857-A-1DU

Date Received 2/26/2009
 Start Date 2/27/2009
 End Date 3/6/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 74.68431 %

Default Soil Gravity 2.65

Sample Weights

Tare	Pan+Sample	Sample
		213.9017
		51.1255

SHMP test

Standard ID 10/15/2008
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 3.4
 Weight of aliquot 5 (mg) 2.4
 Average Weight (mg) 2.5

Sample Split

Tare	Pan+Sample	Sample
		7.3055
		43.82
		85.7

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.0551	0.0551 g	99.9	Gravel	
#18	1000	0	0.3925	0.3925 g	99.1	Sand	Coarse
#35	500	0	0.8495	0.8495 g	97.4	Sand	Medium
#60	250	0	1.7673	1.7673 g	93.9	Sand	Medium
#120	125	0	2.1143	2.1143 g	89.8	Sand	Fine
#230	63	0	2.1268	2.1268 g	85.6	Sand	Fine
				0 g	85.6	Sand	Fine
				0 g			
Remainder				0 g			

Number of aliquots SHMP used 5

Silt/Clay Fraction (Pipette Test)

Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	52.8493	53.7382	0.8764	3.245	6.347126189	79.352874	Sand	Very Fine
5	31.42	20	00:01:54	10	52.4729	53.2969	0.8115	29.32	57.34907238	22.003801	Silt	Coarse
6	15.6	20	00:07:36	10	53.8584	54.096	0.2251	3.505	6.855678673	15.148123	Silt	Medium
7	7.8	20	00:30:26	10	50.6481	50.8156	0.155	1.545	3.021975335	12.126147	Silt	Fine
8	3.9	20	02:02:00	10	51.1637	51.3003	0.1241	0.95	1.858172536	10.267975	Silt	Very Fine
9	1.95	20	08:06:00	10	51.0828	51.2004	0.1051	0.66	1.29094092	8.977034	Clay	Coarse
10	0.98	20	32:28:00	10	52.8806	52.985	0.0919	4.595	8.987687162	-0.0106532	Clay	Medium
			not defined	10								

*Large Red/White
7.8°C
In cooling process*

Chain of Custody Record

Client: **ANCHOR QEA, LLC** Project Manager: **DAN BERLIN** Date: **Feb 24, 2009** Chain of Custody Number: **3853**

Address: **1423 3rd Ave. Ste 300** Telephone Number (Area Code)/Fax Number: **(206) 903-3322 (206) 287-9130** Lab Number: **12857** Page: **1 of 1**

City: **SEA.** State: **WA** Zip Code: **98101** Site Contact: Lab Contact: **PAMELA JOHNSON**

Project Name and Location (State): **PORT OF OLYMPIA BERTHS 2 & 3** Carrier/Waybill Number: **HAND DELIVER**

Contract/Purchase Order/Quote No. Matrix Containers & Preservatives

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix						Containers & Preservatives						Gross Size	TDC, Moisture, TS	Archive	Special Instructions/ Conditions of Receipt
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	Other				
1 PO-BA-24-SS-A-090226	2/26/09	1150			X			X										3 jars
2 PO-BA-25-SS-A-090226	↓	1105			↓			↓										3 jars
3 PO-BA-26-SS-A-090226	↓	1120			↓			↓										3 jars
4 PO-BA-27B-SS-A-090226	↓	1025			↓			↓										4 jars ns

Page 22 of 36

Cooler: Yes No Cooler Temp: _____ Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal: Disposal By Lab Return To Client Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): 24 Hours 48 Hours 5 Days 10 Days 15 Days Other _____ QC Requirements (Specify):

1. Relinquished By: *EW Anderson* Date: **2/26/09** Time: **13:48** 1. Received By: *J Hardney* Date: **2/26/09** Time: **13:48**

2. Relinquished By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____

Comments: _____

Login Sample Receipt Check List

nt: Anchor Environmental LLC

Job Number: 580-12857-1

Login Number: 12857
Creator: Harding, Jessica
List Number: 1

List Source: TestAmerica Tacoma

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Temp @ 7.8, In Cooling Process.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

PERCENT MOISTURE

General Chemistry Worksheet

Batch Number: 580-41776

Method: PercentMoisture

Analyst: Moore, Delynn

Date Open: Mar 24 2009 11:15AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
580-12857-A-1	PO-BA-24-SS-A09022 6	D2216_90	T	6.3782 g	36.3592 g	14.1746 g
580-12857-B-2	PO-BA-25-SS-A09022 6	D2216_90	T	6.3923 g	39.2901 g	16.6487 g
580-12857-B-3	PO-BA-26-SS-A09022 6	D2216_90	T	6.3822 g	41.2122 g	17.0134 g
580-12857-B-4	PO-BA-27B-SS-A0902 26	D2216_90	T	6.3700 g	39.1748 g	15.8010 g

TOTAL ORGANIC CARBON DATA PACKAGE

 ** OI Analytical SOLIDS TOC **
 ** RUN SETUP **

Operator: AJM
 Data Path: C:\PROGRA~1\OIANAL~1\TOCREP~1\DATASO\031109
 WinTOC Version: 3.0
 Firmware Version: 3.0

 ** CONFIGURATION **

Analysis Mode: TOC Base Temp : 900 OC
 Sample Intro : Solids Noise Threshold: 2.0

 ** CALIBRATION **

080508 Wed Mar 11 11:49:14 2009

 ** METHODS **

SOLIDSA Tue Apr 01 16:22:23 2008

 ** SEQUENCE **

031109 Wed Mar 11 11:54:15 2009

Start Pos/Vial #: 1, Stop Pos/Vial #: 16

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Mass (mg)	Remarks
1	ICV 1500-2-4	SOLIDSA	Sample	1	100.000	
2	CCV 1500-2-5	solidsa	Sample	1	100.000	
3	CCB	solidsa	Sample	1	100.000	
4	MB	solidsa	Sample	1	100.000	
5	LCSSRM	solidsa	Sample	1	50.000	
6	12857-A-4	solidsa	Sample	1	50.000	
7	12857-A-4 dup	solidsa	Sample	1	50.000	
8	12857-A-4 trip	solidsa	Sample	1	50.000	
9	12857-A-4 ms	solidsa	Sample	1	50.000	
10	12857-A-4 msd	solidsa	Sample	1	50.000	
11	12857-A-1	solidsa	Sample	2	50.000	
12	12857-A-2	solidsa	Sample	2	50.000	
13	12857-A-3	solidsa	Sample	2	50.000	
14	12857-A-4	solidsa	Sample	2	50.000	
15	CCV 1500-2-5	solidsa	Sample	1	100.000	
16	CCB	solidsa	Sample	1	100.000	

 ** RESULTS - 031109 **

Pos/Vial: 1 Name: ICV 1500-2-4 Analyzed: 11Mar2009 11:54
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00158	100.000	13444	3.204	3.20

Pos/Vial: 2 Name: CCV 1500-2-5 Analyzed: 11Mar2009 12:10
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00159	100.000	8270	1.966	1.97

Pos/Vial: 3 Name: CCB Analyzed: 11Mar2009 12:39
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00160	100.000	0	-0.014	-0.01

Pos/Vial: 4 Name: MB Analyzed: 11Mar2009 12:55
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00161	100.000	0	-0.014	-0.01

Pos/Vial: 5 Name: LCSSRM Analyzed: 11Mar2009 13:10
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00162	51.600	1127	0.256	0.50

Pos/Vial: 6 Name: 12857-A-4 Analyzed: 11Mar2009 13:26
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00163	51.400	7474	1.775	3.45

Pos/Vial: 7 Name: 12857-A-4 dup Analyzed: 11Mar2009 13:41
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00164	50.200	7542	1.791	3.57

Pos/Vial: 8 Name: 12857-A-4 trip Analyzed: 11Mar2009 14:43
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00165	50.400	7415	1.761	3.49

Pos/Vial: 9 Name: 12857-A-4 ms Analyzed: 11Mar2009 14:58
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00166	49.700	11092	2.641	5.31

Pos/Vial: 10 Name: 12857-A-4 msd Analyzed: 11Mar2009 15:14
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00167	50.500	11161	2.658	5.26

Pos/Vial: 11 Name: 12857-A-1 Analyzed: 11Mar2009 15:29
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00168	49.200	8762	2.083	4.23
2 00168	50.700	7911	1.880	3.71
Avg		-	-	3.97

Pos/Vial: 12 Name: 12857-A-2 Analyzed: 11Mar2009 15:59
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00169	50.700	8690	2.066	4.08
2 00169	49.100	8397	1.996	4.07

Avg - - 4.07

Pos/Vial: 13 Name: 12857-A-3 Analyzed: 11Mar2009 16:31
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00170	51.800	10291	2.449	4.73
2 00170	51.100	10160	2.418	4.73

Avg - - 4.73

Pos/Vial: 14 Name: 12857-A-4 Analyzed: 11Mar2009 17:03
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00170	50.000	10291	2.449	4.73

Sequence Aborted 11Mar2009 17:04

** OI Analytical SOLIDS TOC **
** RUN SETUP **

Operator: AJM
Data Path: C:\PROGRA~1\OIANAL~1\TOCREP~1\DATASO\031109
WinTOC Version: 3.0
Firmware Version: 3.0

** CONFIGURATION **

Analysis Mode: TOC Base Temp : 900.0C
Sample Intro : Solids Noise Threshold: 2.0

** CALIBRATION **

080508 Wed Mar 11 17:03:35 2009

** METHODS **

SOLIDSA Tue Apr 01 16:22:23 2008

** SEQUENCE **

Start Pos/Vial #: 15, Stop Pos/Vial #: 16

Pos/Vial	Sample Name	Method	Run Type	# Rep	Mass (mg)	Remarks
1	ICV 1500-2-4	SOLIDSA	Sample	1	100.000	
2	CCV 1500-2-5	solidsa	Sample	1	100.000	
3	CCB	solidsa	Sample	1	100.000	
4	MB	solidsa	Sample	1	100.000	
5	LCSSRM	solidsa	Sample	1	50.000	
6	12857-A-4	solidsa	Sample	1	50.000	
7	12857-A-4 dup	solidsa	Sample	1	50.000	
8	12857-A-4 trip	solidsa	Sample	1	50.000	
9	12857-A-4 ms	solidsa	Sample	1	50.000	
10	12857-A-4 msd	solidsa	Sample	1	50.000	
11	12857-A-1	solidsa	Sample	2	50.000	
12	12857-A-2	solidsa	Sample	2	50.000	
13	12857-A-3	solidsa	Sample	2	50.000	
14	12857-A-4	solidsa	Sample	2	50.000	
15	CCV 1500-2-5	solidsa	Sample	1	100.000	
16	CCB	solidsa	Sample	1	100.000	

 ** RESULTS - 031109 **

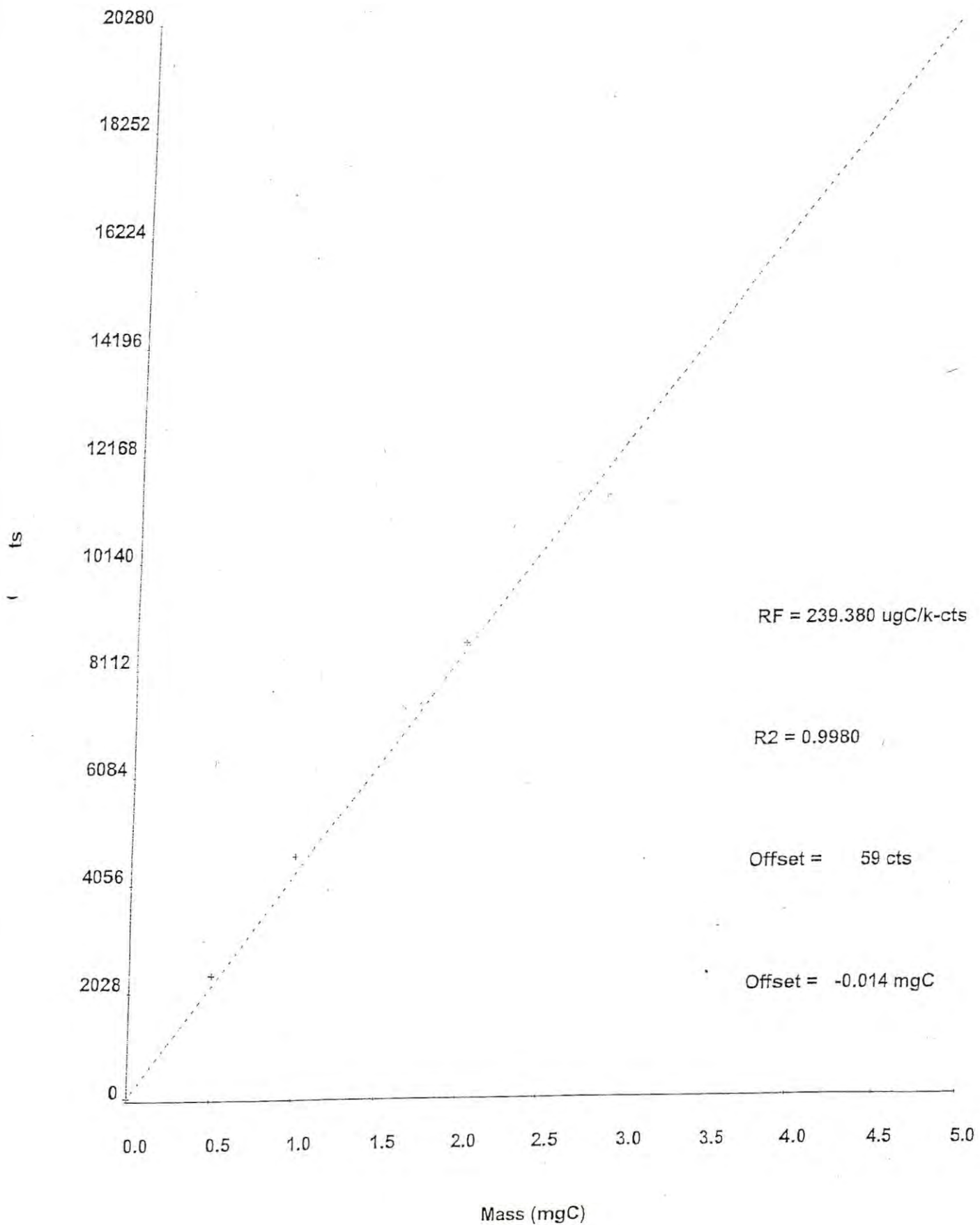
Pos/Vial: 15 Name: CCV 1500-2-5 Analyzed: 11Mar2009 17:05
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00171	100.000	8144	1.935	1.94

Pos/Vial: 16 Name: CCB Analyzed: 11Mar2009 17:20
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00172	100.000	0	-0.014	-0.01

INITIAL CALIBRATION



 ** CALIBRATION **

080508 Thu Nov 06 18:40:33 2008

Std. #	Used	Mass (mgC)	RF (ugc/k-cts):	0.000
1	Yes	0.000	R-Squared:	0.0000
2	Yes	0.500	Offset (cts):	0
3	Yes	1.000	Offset (mgC):	0.000
4	Yes	2.000	Calibration Mode:	TC
5	Yes	5.000	Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5
1	51	2350	4564	8558	20281
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-

(* = unused)

 Analysis Mode: TOC Base Temp : 900 OC
 Sample Intro : Solids Noise Threshold: 2.0

 ** CALIBRATION **

080508 Tue Aug 05 15:25:30 2008

 ** METHODS **

SOLIDSA Tue Apr 01 16:22:23 2008

 ** SEQUENCE **

080508 Tue Aug 05 13:10:04 2008

Start Pos/Vial #: 1, Stop Pos/Vial #: 5

Pos/Vial	Sample Name	Method	Run Type	# Rep	Mass (mg)	Remarks
1	0 mg/kg	SOLIDSA	Std. 1	1	0.000	
2	5000 mg/kg	solidsa	Std. 2	1	0.500	
3	10000 mg/kg	solidsa	Std. 3	1	1.000	
4	20000 mg/kg	solidsa	Std. 4	1	2.000	
5	50000 mg/kg	solidsa	Std. 5	1	5.000	

 ** RESULTS - 080508 **

Pos/Vial: 1 Name: 0 mg/kg Analyzed: 05Aug2008 15:27
 Run ID: 1 Meth: solidsa Mass (mg): 0.000

STD. 1	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile			
1 00022	0.000	51	0.000

** Calibration: RF (ugc/k-cts): 247.540
 R-Squared: 0.9976
 Offset (cts): 55
 Offset (mgC): -0.014

 Pos/Vial: 2 Name: 5000 mg/kg Analyzed: 05Aug2008 15:35
 Run ID: 1 Meth: solidsa Mass (mg): 0.500

STD. 2	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile			
1 00023	0.500	2350	0.500

** Calibration: RF (ugc/k-cts): 247.270
 R-Squared: 0.9974

Offset (cts): 56
Offset (mgC): -0.014

Pos/Vial: 3 Name: 10000 mg/kg Analyzed: 05Aug2008 15:41
Run ID: 1 Meth: solidsa Mass (mg): 1.000

STD. 3	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile			
1 00024	1.000	4564	1.000

** Calibration: RF (ugc/k-cts): 242.620
R-Squared: 0.9967
Offset (cts): 60
Offset (mgC): -0.015

Pos/Vial: 4 Name: 20000 mg/kg Analyzed: 05Aug2008 15:47
Run ID: 1 Meth: solidsa Mass (mg): 2.000

STD. 4	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile			
1 00025	2.000	8558	2.000

** Calibration: RF (ugc/k-cts): 243.050
R-Squared: 0.9968
Offset (cts): 60
Offset (mgC): -0.015

Pos/Vial: 5 Name: 50000 mg/kg Analyzed: 05Aug2008 15:53
Run ID: 1 Meth: solidsa Mass (mg): 5.000

STD. 5	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile			
1 00026	5.000	20281	5.000

** Calibration: RF (ugc/k-cts): 239.380
R-Squared: 0.9980
Offset (cts): 59
Offset (mgC): -0.014

E-Possible IR failure. 06Aug2008 11:20

ANALYTICAL REPORT

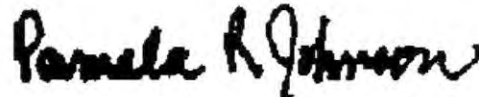
Job Number: 580-13052-1

Job Description: Port of Olympia Berths 2&3

For:

Anchor Environmental LLC
1423 3rd Avenue, Ste 300
Seattle, WA 98101

Attention: Joy Dunay



Approved for release
Pam R Johnson
Project Mgmt. Assistant
4/2/2009 11:16 AM

Pam R Johnson
Project Mgmt. Assistant
pamr.johnson@testamericainc.com
04/02/2009

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

TestAmerica Laboratories, Inc.

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Job Narrative
580-J13052-1

Comments

no additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

No analytical or quality issues were noted.

Geotechnical

No analytical or quality issues were noted.

METHOD SUMMARY

Client: Anchor Environmental LLC

Job Number: 580-13052-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
TOC (Puget Sound)	TAL TAC	PSEP 9060_PSEP	
Water (Moisture) Content	TAL TAC	ASTM D2216-90	

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

ASTM = ASTM International

PSEP = Puget Sound Estuary Program

SAMPLE SUMMARY

Client: Anchor Environmental LLC

Job Number: 580-13052-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-13052-1	PO-BA-24-SS-A-090313	Solid	03/13/2009 1530	03/16/2009 1540
580-13052-2	PO-BA-25-SS-A-090316	Solid	03/16/2009 1320	03/16/2009 1540
580-13052-3	PO-BA-26-SS-A-090316	Solid	03/16/2009 1205	03/16/2009 1540
580-13052-4	PO-BA-27B-SS-A-090313	Solid	03/13/2009 1616	03/16/2009 1540
580-13052-5	PO-UP-20-SS-A-090313	Solid	03/13/2009 1255	03/16/2009 1540
580-13052-6	PO-UP-21-SS-A-090313	Solid	03/13/2009 1235	03/16/2009 1540
580-13052-7	PO-UP-22-SS-A-090313	Solid	03/13/2009 1220	03/16/2009 1540
580-13052-8	PO-UP-23B-SS-A-090313	Solid	03/13/2009 1147	03/16/2009 1540
580-13052-9	PO-AM-28-SS-A-090313	Solid	03/13/2009 0840	03/16/2009 1540
580-13052-10	B1-C16-SS-A-090313	Solid	03/13/2009 0955	03/16/2009 1540
580-13052-11	B1-S37-SS-A-090313	Solid	03/13/2009 0915	03/16/2009 1540

Analytical Data

Client: Anchor Environmental LLC

Job Number: 580-13052-1

General Chemistry

Client Sample ID: PO-BA-24-SS-A-090313

Lab Sample ID: 580-13052-1

Date Sampled: 03/13/2009 1530

Client Matrix: Solid

Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	900	J	mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41961		Date Analyzed	03/27/2009	1202		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	15		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-42015		Date Analyzed	03/31/2009	1121		DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		
Percent Moisture	13		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		

Client Sample ID: PO-BA-25-SS-A-090316

Lab Sample ID: 580-13052-2

Date Sampled: 03/16/2009 1320

Client Matrix: Solid

Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	700	J	mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41986		Date Analyzed	03/30/2009	1906		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	14		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-42015		Date Analyzed	03/31/2009	1121		DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		
Percent Moisture	11		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		

Analytical Data

Client: Anchor Environmental LLC

Job Number: 580-13052-1

General Chemistry

Client Sample ID: PO-BA-26-SS-A-090316

Lab Sample ID: 580-13052-3
 Client Matrix: Solid

Date Sampled: 03/16/2009 1205
 Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	ND		mg/Kg	610	2000	1.0	9060_PSEP
	Any Batch: 580-41986		Date Analyzed	03/30/2009	1906		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	18		%	0.010	0.010	1.0	D2216-90
	Any Batch: 580-42015		Date Analyzed	03/31/2009	1121		DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	PercentMoisture
	Any Batch: 580-41722		Date Analyzed	03/23/2009	1103		
Percent Moisture	14		%	0.10	0.10	1.0	PercentMoisture
	Any Batch: 580-41722		Date Analyzed	03/23/2009	1103		

Client Sample ID: PO-BA-27B-SS-A-090313

Lab Sample ID: 580-13052-4
 Client Matrix: Solid

Date Sampled: 03/13/2009 1616
 Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	ND		mg/Kg	610	2000	1.0	9060_PSEP
	Any Batch: 580-41961		Date Analyzed	03/27/2009	1202		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	14		%	0.010	0.010	1.0	D2216-90
	Any Batch: 580-42015		Date Analyzed	03/31/2009	1121		DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	PercentMoisture
	Any Batch: 580-41722		Date Analyzed	03/23/2009	1103		
Percent Moisture	10		%	0.10	0.10	1.0	PercentMoisture
	Any Batch: 580-41722		Date Analyzed	03/23/2009	1103		

Analytical Data

Client: Anchor Environmental LLC

Job Number: 580-13052-1

General Chemistry

Client Sample ID: PO-UP-20-SS-A-090313

Lab Sample ID: 580-13052-5
 Client Matrix: Solid

Date Sampled: 03/13/2009 1255
 Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	45000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41961		Date Analyzed	03/27/2009 1202			DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	250		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-42015		Date Analyzed	03/31/2009 1121			DryWt Corrected: N
Percent Solids	27		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009 1103			
Percent Moisture	73		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009 1103			

Client Sample ID: PO-UP-21-SS-A-090313

Lab Sample ID: 580-13052-6
 Client Matrix: Solid

Date Sampled: 03/13/2009 1235
 Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	35000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41961		Date Analyzed	03/27/2009 1202			DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	210		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-42015		Date Analyzed	03/31/2009 1121			DryWt Corrected: N
Percent Solids	32		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009 1103			
Percent Moisture	68		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009 1103			

Analytical Data

Client: Anchor Environmental LLC

Job Number: 580-13052-1

General Chemistry

Client Sample ID: PO-UP-22-SS-A-090313

Lab Sample ID: 580-13052-7
 Client Matrix: Solid

Date Sampled: 03/13/2009 1220
 Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	42000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41961		Date Analyzed	03/27/2009	1202		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	300		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-42015		Date Analyzed	03/31/2009	1121		DryWt Corrected: N
Percent Solids	25		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		
Percent Moisture	75		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		

Client Sample ID: PO-UP-23B-SS-A-090313

Lab Sample ID: 580-13052-8
 Client Matrix: Solid

Date Sampled: 03/13/2009 1147
 Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	51000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41961		Date Analyzed	03/27/2009	1202		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	280		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-42015		Date Analyzed	03/31/2009	1121		DryWt Corrected: N
Percent Solids	26		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		
Percent Moisture	74		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		

Analytical Data

Client: Anchor Environmental LLC

Job Number: 580-13052-1

General Chemistry

Client Sample ID: PO-AM-28-SS-A-090313

Lab Sample ID: 580-13052-9
Client Matrix: Solid

Date Sampled: 03/13/2009 0840
Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	37000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41961		Date Analyzed	03/27/2009	1202		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	290		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-42015		Date Analyzed	03/31/2009	1121		DryWt Corrected: N
Percent Solids	26		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		
Percent Moisture	74		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		

Client Sample ID: B1-C16-SS-A-090313

Lab Sample ID: 580-13052-10
Client Matrix: Solid

Date Sampled: 03/13/2009 0955
Date Received: 03/16/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	35000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41961		Date Analyzed	03/27/2009	1202		DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	240		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-42015		Date Analyzed	03/31/2009	1121		DryWt Corrected: N
Percent Solids	27		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		
Percent Moisture	73		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009	1103		

Analytical Data

Client: Anchor Environmental LLC

Job Number: 580-13052-1

General Chemistry

Client Sample ID: B1-S37-SS-A-090313

Lab Sample ID: 580-13052-11
 Client Matrix: Solid

Date Sampled: 03/13/2009 0915
 Date Received: 03/16/2009 1540

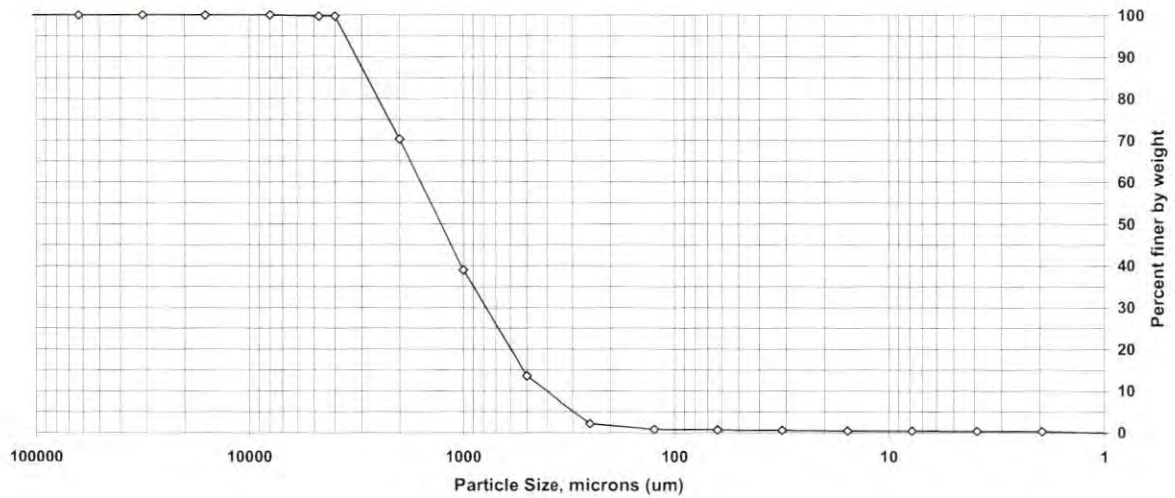
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Total Organic Carbon	35000		mg/Kg	610	2000	1.0	9060_PSEP
	Anly Batch: 580-41961		Date Analyzed	03/27/2009 1202			DryWt Corrected: N
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Moisture Content	250		%	0.010	0.010	1.0	D2216-90
	Anly Batch: 580-42015		Date Analyzed	03/31/2009 1121			DryWt Corrected: N
Percent Solids	28		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009 1103			
Percent Moisture	72		%	0.10	0.10	1.0	PercentMoisture
	Anly Batch: 580-41722		Date Analyzed	03/23/2009 1103			

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-BA-24-SS-A-090313
 Lab ID: 580-13052-A-1

Percent Solids: 87.09748%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	99.7	0.3
#5	4000	99.7	0.0
#10	2000	70.3	29.4
#18	1000	39.0	31.3
#35	500	13.6	25.4
#60	250	2.1	11.5
#120	125	0.8	1.3
#230	63	0.8	0.1
Phi Size 4	63	0.6	0.1
Phi Size 5	31.42	0.6	0.1
Phi Size 6	15.6	0.5	0.1
Phi Size 7	7.8	0.4	0.1
Phi Size 8	3.9	0.4	0.0
Phi Size 9	1.95	0.4	0.0
Phi Size 10	0.98	0.0	0.4
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	29.7
Sand	69.7
Very Coarse Sand	31.3
Coarse Sand	25.4
Medium Sand	11.5
Fine Sand	1.3
Very Fine Sand	0.2
Silt	0.2
Coarse Silt	0.1
Medium Silt	0.1
Fine Silt	0.1
Very Fine Silt	0.0
Clay	0.4
Coarse Clay	0.0
Medium Clay	0.4

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-BA-24-SS-A-090313
 Lab Sample ID 580-13052-A-1

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 12.90252 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			830.3451
Sample Weight (dry)			717.5918

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			712.7428
Sample <#230			4.849
% Passing #230			0.676

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	2.1583	2.1583 g	99.7	Gravel	
#5	4000	0	0	0 g	99.7	Gravel	
#10	2000	0	211.0181	211.0181 g	70.3	Gravel	
#18	1000	0	224.8823	224.8823 g	39.0	Sand	Coarse
#35	500	0	182.5036	182.5036 g	13.6	Sand	Medium
#60	250	0	82.2244	82.2244 g	2.1	Sand	Medium
#120	125	0	9.5022	9.5022 g	0.8	Sand	Fine
#230	63	0	0.4539	0.4539 g	0.8	Sand	Fine
				0 g	0.8	Sand	Fine
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

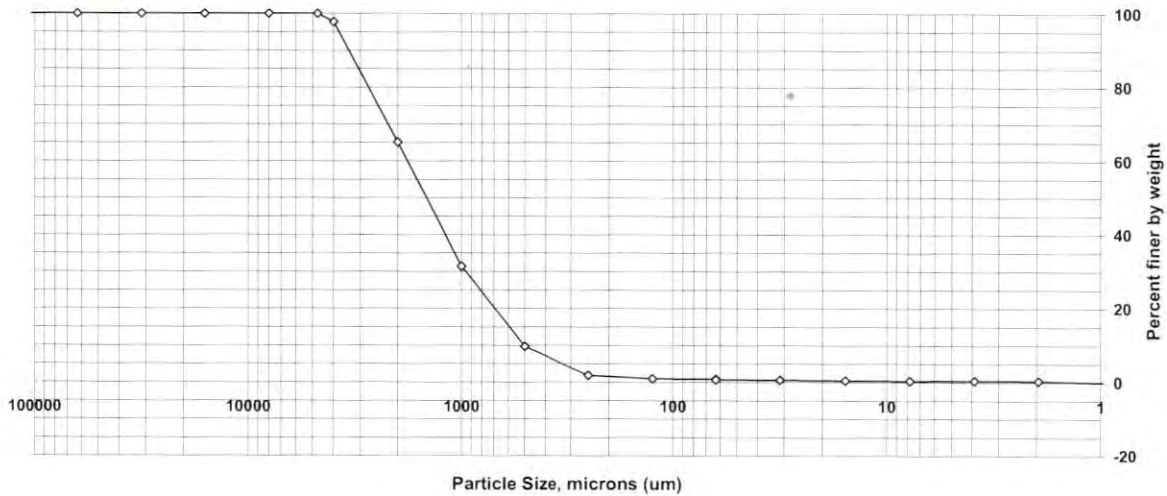
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	57.9008	58.0002	0.09698	0.415	0.057832322	0.6181677	Sand	Very Fine
5	31.42	20	00:01:54	10	53.4974	53.5885	0.08868	0.45	0.062709747	0.5554579	Silt	Coarse
6	15.6	20	00:07:36	10	57.8609	57.943	0.07968	0.735	0.10242592	0.453032	Silt	Medium
7	7.8	20	00:30:26	10	52.7686	52.836	0.06498	0.385	0.053651672	0.3993803	Silt	Fine
8	3.9	20	02:02:00	10	57.0668	57.1265	0.05728	0.075	0.010451624	0.3889287	Silt	Very Fine
9	1.95	20	08:06:00	10	56.8901	56.9483	0.05578	-0.015	-0.002090325	0.391019	Clay	Coarse
10	0.98	20	32:28:00	10	58.5161	58.5746	0.05608	2.804	0.390751399	0.0002676	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-BA-25-SS-A-090316
 Lab ID: 580-13052-A-2

Percent Solids: 88.34537%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	97.7	2.3
#10	2000	65.1	32.6
#18	1000	31.4	33.7
#35	500	9.7	21.7
#60	250	1.9	7.8
#120	125	0.9	0.9
#230	63	0.8	0.1
Phi Size 4	63	0.7	0.2
Phi Size 5	31.42	0.6	0.1
Phi Size 6	15.6	0.4	0.2
Phi Size 7	7.8	0.4	0.0
Phi Size 8	3.9	0.4	0.0
Phi Size 9	1.95	0.4	0.0
Phi Size 10	0.98	0.0	0.4
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	34.9
Sand	64.4
Very Coarse Sand	33.7
Coarse Sand	21.7
Medium Sand	7.8
Fine Sand	0.9
Very Fine Sand	0.3
Silt	0.2
Coarse Silt	0.1
Medium Silt	0.2
Fine Silt	0.0
Very Fine Silt	0.0
Clay	0.4
Coarse Clay	0.0
Medium Clay	0.4

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-BA-25-SS-A-090316
 Lab Sample ID 580-13052-A-2

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 11.65463 %

Default Soil Gravity 2.65

Sample Weights

Tare	Pan+Sample	Sample
		662.4243
		575.1439

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

Tare	Pan+Sample	Sample
		570.9499
		4.194
		0.729

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	13.395	13.395 g	97.7	Gravel	
#10	2000	0	187.7708	187.7708 g	65.1	Gravel	
#18	1000	0	193.9957	193.9957 g	31.4	Sand	Coarse
#35	500	0	124.9822	124.9822 g	9.7	Sand	Medium
#60	250	0	44.8715	44.8715 g	1.9	Sand	Medium
#120	125	0	5.4409	5.4409 g	0.9	Sand	Fine
#230	63	0	0.4938	0.4938 g	0.8	Sand	Fine
				0 g	0.8	Sand	Fine
				0 g	0.8		
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

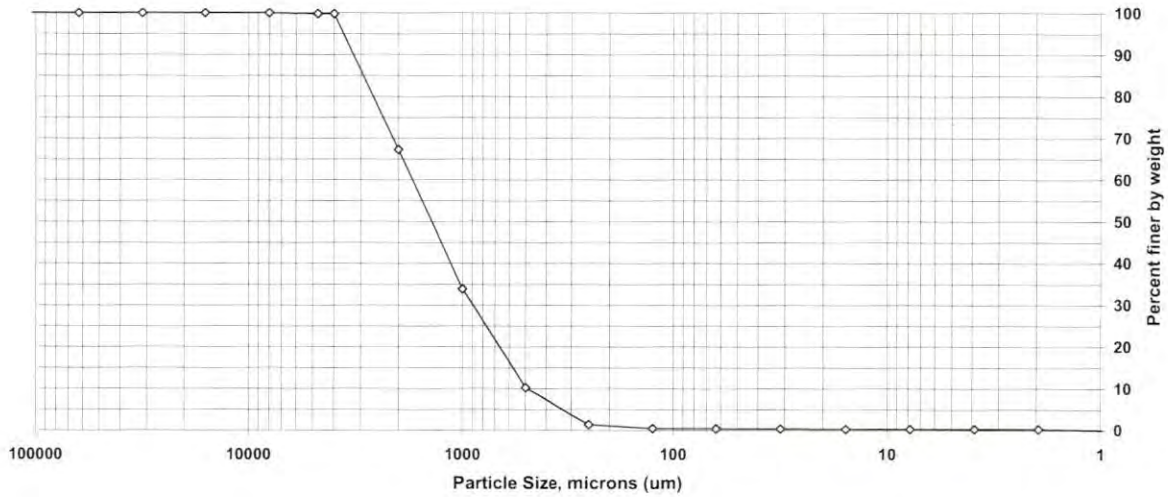
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	59.1089	59.1952	0.08388	0.32	0.05563825	0.6733618	Sand	Very Fine
5	31.42	20	00:01:54	10	55.4559	55.5358	0.07748	0.31	0.053899555	0.6194622	Silt	Coarse
6	15.6	20	00:07:36	10	59.3683	59.442	0.07128	1.025	0.178216269	0.4412459	Silt	Medium
7	7.8	20	00:30:26	10	58.5713	58.6245	0.05078	0.17	0.02955782	0.4116881	Silt	Fine
8	3.9	20	02:02:00	10	60.6932	60.743	0.04738	-0.135	-0.023472387	0.4351605	Silt	Very Fine
9	1.95	20	08:06:00	10	59.5496	59.6021	0.05008	0.085	0.01477891	0.4203816	Clay	Coarse
10	0.98	20	32:28:00	10	58.0696	58.1204	0.04838	2.419	0.420590395	-0.0002088	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-BA-26-SS-A-090316
 Lab ID: 580-13052-A-3

Percent Solids: 84.8391%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	99.8	0.2
#5	4000	99.8	0.0
#10	2000	67.3	32.5
#18	1000	33.9	33.4
#35	500	10.2	23.7
#60	250	1.4	8.9
#120	125	0.5	0.9
#230	63	0.4	0.0
Phi Size 4	63	0.4	0.0
Phi Size 5	31.42	0.4	0.0
Phi Size 6	15.6	0.3	0.1
Phi Size 7	7.8	0.3	0.0
Phi Size 8	3.9	0.3	0.0
Phi Size 9	1.95	0.3	0.0
Phi Size 10	0.98	0.0	0.3
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	32.7
Sand	66.9
Very Coarse Sand	33.4
Coarse Sand	23.7
Medium Sand	8.9
Fine Sand	0.9
Very Fine Sand	0.1
Silt	0.1
Coarse Silt	0.0
Medium Silt	0.1
Fine Silt	0.0
Very Fine Silt	0.0
Clay	0.3
Coarse Clay	0.0
Medium Clay	0.3

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-BA-26-SS-A-090316
 Lab Sample ID 580-13052-A-3

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 15.1609 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			662.4243
Sample Weight (dry)			640.8801

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			638.4411
Sample <#230			2.439
% Passing #230			0.381

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	1.3594	1.3594 g	99.8	Gravel	
#5	4000	0	0	0 g	99.8	Gravel	
#10	2000	0	208.2302	208.2302 g	67.3	Gravel	
#18	1000	0	214.3585	214.3585 g	33.9	Sand	Coarse
#35	500	0	151.8758	151.8758 g	10.2	Sand	Medium
#60	250	0	56.7373	56.7373 g	1.4	Sand	Medium
#120	125	0	5.691	5.691 g	0.5	Sand	Fine
#230	63	0	0.1889	0.1889 g	0.4	Sand	Fine
				0 g	0.4	Sand	Fine
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

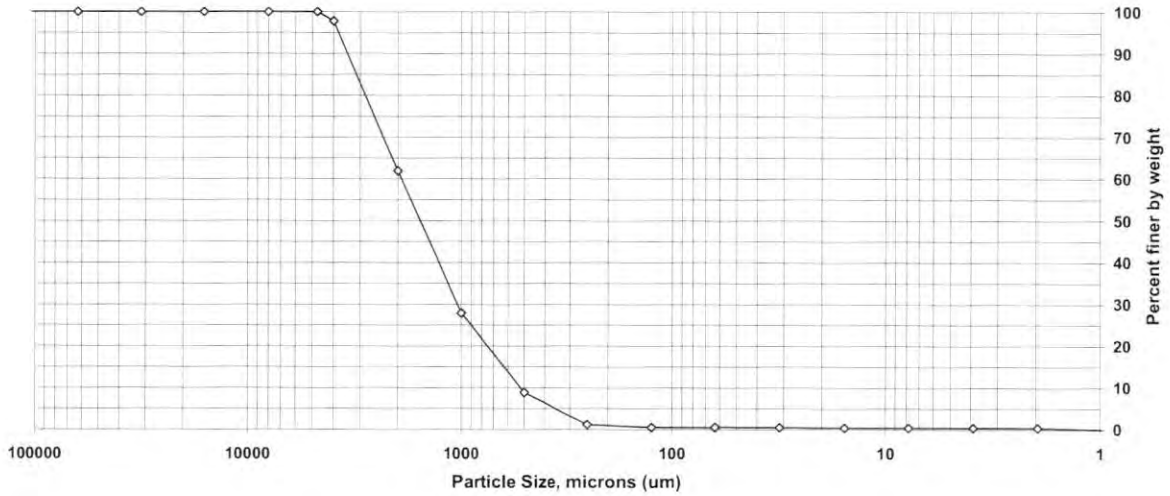
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (h:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	58.591	58.6422	0.04878	-0.07	-0.01092248	0.3919225	Sand	Very Fine
5	31.42	20	00:01:54	10	57.9832	58.0358	0.05018	0.18	0.028086377	0.3638361	Silt	Coarse
6	15.6	20	00:07:36	10	58.8126	58.8616	0.04658	0.655	0.102203205	0.2616329	Silt	Medium
7	7.8	20	00:30:26	10	58.08	58.1159	0.03348	-0.235	-0.036668325	0.2983012	Silt	Fine
8	3.9	20	02:02:00	10	52.1677	52.2083	0.03818	-0.05	-0.007801771	0.306103	Silt	Very Fine
9	1.95	20	08:06:00	10	55.0015	55.0431	0.03918	0.195	0.030426908	0.2756761	Clay	Coarse
10	0.98	20	32:28:00	10	57.8464	57.8841	0.03528	1.764	0.275246493	0.0004296	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-BA-27B-SS-A-090313
 Lab ID: 580-13052-A-4

Percent Solids: 87.85544%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	97.8	2.2
#10	2000	61.9	35.9
#18	1000	27.9	34.0
#35	500	8.8	19.1
#60	250	1.2	7.6
#120	125	0.5	0.7
#230	63	0.5	0.0
Phi Size 4	63	0.5	-0.1
Phi Size 5	31.42	0.5	0.0
Phi Size 6	15.6	0.4	0.1
Phi Size 7	7.8	0.4	0.0
Phi Size 8	3.9	0.4	0.0
Phi Size 9	1.95	0.4	0.0
Phi Size 10	0.98	0.0	0.4
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	38.1
Sand	61.4
Very Coarse Sand	34.0
Coarse Sand	19.1
Medium Sand	7.6
Fine Sand	0.7
Very Fine Sand	0.0
Silt	0.1
Coarse Silt	0.0
Medium Silt	0.1
Fine Silt	0.0
Very Fine Silt	0.0
Clay	0.4
Coarse Clay	0.0
Medium Clay	0.4

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-BA-27B-SS-A-090313
 Lab Sample ID 580-13052-A-4

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 12.14456 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Samp	Samp
Sample Weight (Wet)			662.4243
Sample Weight (dry)			676.7673

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

	Tare	Pan+Samp	Samp
Sample >=#230			673.0533
Sample <#230			3.714
% Passing #230			0.549

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	14.5932	14.5932 g	97.8	Gravel	
#10	2000	0	242.6387	242.6387 g	61.9	Gravel	
#18	1000	0	230.306	230.306 g	27.9	Sand	Coarse
#35	500	0	129.033	129.033 g	8.8	Sand	Medium
#60	250	0	51.439	51.439 g	1.2	Sand	Medium
#120	125	0	4.8113	4.8113 g	0.5	Sand	Fine
#230	63	0	0.2321	0.2321 g	0.5	Sand	Fine
				0 g	0.5	Sand	Fine
				0 g	0.5		
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

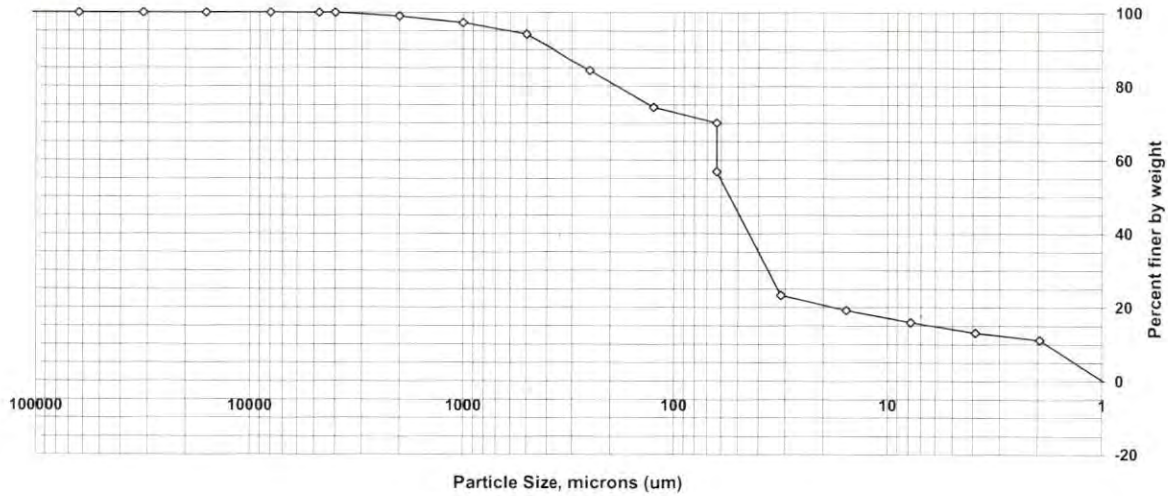
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	56.9211	56.9978	0.07428	-3.55271E-13	-5.24954E-14	0.549	Sand	Very Fine
5	31.42	20	00:01:54	10	55.2095	55.2862	0.07428	0.105	0.015514934	0.5334851	Silt	Coarse
6	15.6	20	00:07:36	10	59.6056	59.6802	0.07218	0.685	0.101216474	0.4322686	Silt	Medium
7	7.8	20	00:30:26	10	58.7978	58.8587	0.05848	0.225	0.033246287	0.3990223	Silt	Fine
8	3.9	20	02:02:00	10	58.0811	58.1375	0.05398	-0.14	-0.020686579	0.4197089	Silt	Very Fine
9	1.95	20	08:06:00	10	58.2201	58.2793	0.05678	-0.03	-0.004432838	0.4241417	Clay	Coarse
10	0.98	20	32:28:00	10	57.2925	57.3523	0.05738	2.869	0.423927102	0.0002146	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-UP-20-SS-A-090313
 Lab ID: 580-13052-A-5

Percent Solids: 28.55497%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	99.0	1.0
#18	1000	97.2	1.8
#35	500	94.1	3.1
#60	250	84.3	9.8
#120	125	74.3	10.0
#230	63	70.1	4.2
Phi Size 4	63	56.8	13.3
Phi Size 5	31.42	23.3	33.5
Phi Size 6	15.6	19.2	4.1
Phi Size 7	7.8	15.9	3.3
Phi Size 8	3.9	13.1	2.8
Phi Size 9	1.95	11.2	2.0
Phi Size 10	0.98	0.0	11.2
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	1.0
Sand	42.2
Very Coarse Sand	1.8
Coarse Sand	3.1
Medium Sand	9.8
Fine Sand	10.0
Very Fine Sand	17.5
Silt	43.6
Coarse Silt	33.5
Medium Silt	4.1
Fine Silt	3.3
Very Fine Silt	2.8
Clay	13.2
Coarse Clay	2.0
Medium Clay	11.2

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-UP-20-SS-A-090313
 Lab Sample ID 580-13052-A-5

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 71.44503 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			99.645
Sample Weight (dry)			22.1596

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			6.5956
Sample <#230			15.564
% Passing #230			70.2

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.2176	0.2176 g	99.0	Gravel	
#18	1000	0	0.3878	0.3878 g	97.2	Sand	Coarse
#35	500	0	0.6785	0.6785 g	94.1	Sand	Medium
#60	250	0	2.1629	2.1629 g	84.3	Sand	Medium
#120	125	0	2.2146	2.2146 g	74.3	Sand	Fine
#230	63	0	0.9342	0.9342 g	70.1	Sand	Fine
				0 g	70.1	Sand	Fine
				0 g	70.1		
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

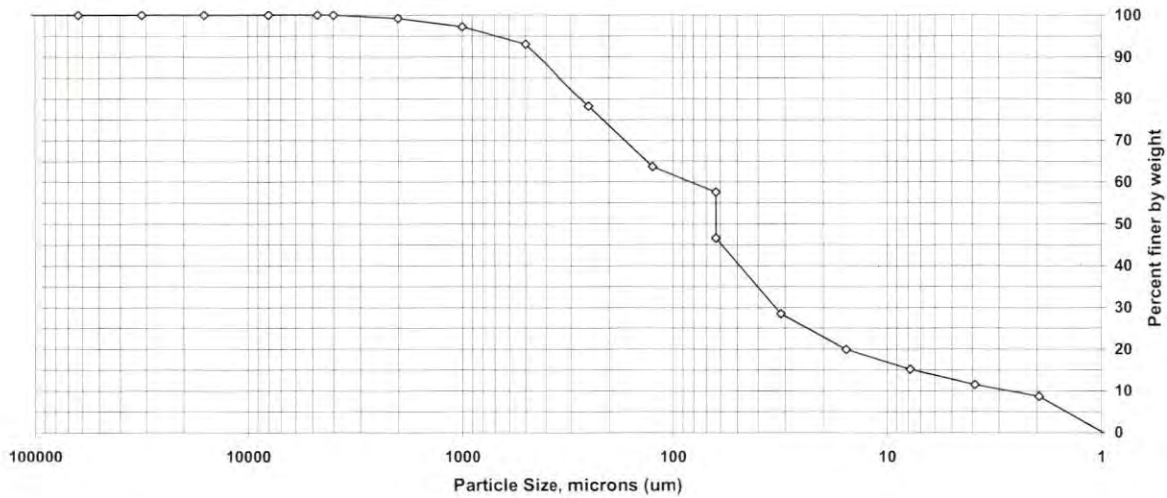
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (h:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	56.7029	57.0166	0.31128	2.975	13.42533259	56.774667	Sand	Very Fine
5	31.42	20	00:01:54	10	55.953	56.2072	0.25178	7.42	33.48435892	23.290308	Silt	Coarse
6	15.6	20	00:07:36	10	54.6113	54.7171	0.10338	0.9	4.061445152	19.228863	Silt	Medium
7	7.8	20	00:30:26	10	57.1881	57.2759	0.08538	0.73	3.29428329	15.93458	Silt	Fine
8	3.9	20	02:02:00	10	52.4719	52.5451	0.07078	0.62	2.797884438	13.136696	Silt	Very Fine
9	1.95	20	08:06:00	10	56.254	56.3148	0.05838	0.435	1.963031824	11.173664	Clay	Coarse
10	0.98	20	32:28:00	10	58.1026	58.1547	0.04968	2.484	11.20958862	-0.0359248	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-UP-21-SS-A-090313
 Lab ID: 580-13052-A-6

Percent Solids: 32.20359%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	99.2	0.8
#18	1000	97.2	2.0
#35	500	93.0	4.2
#60	250	78.2	14.8
#120	125	63.7	14.5
#230	63	57.6	6.1
Phi Size 4	63	46.6	11.0
Phi Size 5	31.42	28.5	18.1
Phi Size 6	15.6	19.9	8.5
Phi Size 7	7.8	15.2	4.8
Phi Size 8	3.9	11.5	3.7
Phi Size 9	1.95	8.7	2.8
Phi Size 10	0.98	0.0	8.7
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	0.8
Sand	52.6
Very Coarse Sand	2.0
Coarse Sand	4.2
Medium Sand	14.8
Fine Sand	14.5
Very Fine Sand	17.1
Silt	35.1
Coarse Silt	18.1
Medium Silt	8.5
Fine Silt	4.8
Very Fine Silt	3.7
Clay	11.4
Coarse Clay	2.8
Medium Clay	8.7

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-UP-21-SS-A-090313
 Lab Sample ID 580-13052-A-6

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 67.79641 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			100.2367
Sample Weight (dry)			29.8652

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			12.6712
Sample <#230			17.194
% Passing #230			57.6

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.2534	0.2534 g	99.2	Gravel	
#18	1000	0	0.5919	0.5919 g	97.2	Sand	Coarse
#35	500	0	1.2586	1.2586 g	93.0	Sand	Medium
#60	250	0	4.4098	4.4098 g	78.2	Sand	Medium
#120	125	0	4.3413	4.3413 g	63.7	Sand	Fine
#230	63	0	1.8162	1.8162 g	57.6	Sand	Fine
				0 g	57.6	Sand	Fine
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

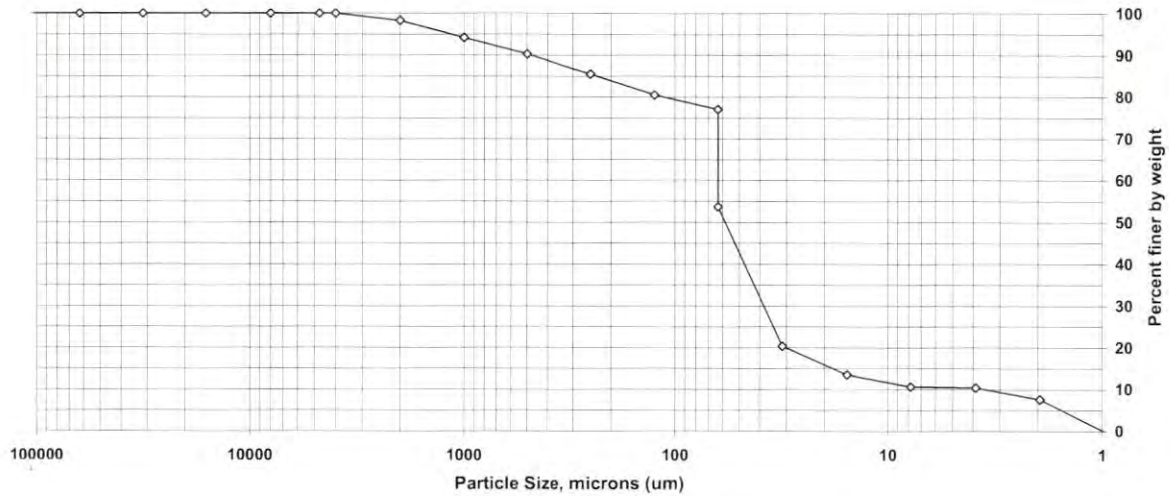
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	55.0374	55.3837	0.34388	3.29	11.01616597	46.583834	Sand	Very Fine
5	31.42	20	00:01:54	10	57.9595	58.24	0.27808	5.415	18.13147074	28.452363	Silt	Coarse
6	15.6	20	00:07:36	10	53.887	54.0592	0.16978	2.54	8.504881936	19.947481	Silt	Medium
7	7.8	20	00:30:26	10	54.1449	54.2663	0.11898	1.42	4.754697775	15.192784	Silt	Fine
8	3.9	20	02:02:00	10	57.3745	57.4675	0.09058	1.11	3.716700374	11.476083	Silt	Very Fine
9	1.95	20	08:06:00	10	56.8852	56.956	0.06838	0.825	2.76241244	8.7136708	Clay	Coarse
10	0.98	20	32:28:00	10	58.0354	58.0897	0.05188	2.594	8.685694387	0.0279764	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-UP-22-SS-A-090313
 Lab ID: 580-13052-A-7

Percent Solids: 25.15368%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	98.3	1.7
#18	1000	94.2	4.1
#35	500	90.3	3.9
#60	250	85.5	4.8
#120	125	80.5	5.0
#230	63	77.1	3.4
Phi Size 4	63	53.7	23.4
Phi Size 5	31.42	20.3	33.4
Phi Size 6	15.6	13.5	6.8
Phi Size 7	7.8	10.6	2.9
Phi Size 8	3.9	10.4	0.2
Phi Size 9	1.95	7.6	2.8
Phi Size 10	0.98	0.0	7.6
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	1.7
Sand	44.6
Very Coarse Sand	4.1
Coarse Sand	3.9
Medium Sand	4.8
Fine Sand	5.0
Very Fine Sand	26.8
Silt	43.3
Coarse Silt	33.4
Medium Silt	6.8
Fine Silt	2.9
Very Fine Silt	0.2
Clay	10.4
Coarse Clay	2.8
Medium Clay	7.6

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Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-UP-22-SS-A-090313
 Lab Sample ID 580-13052-A-7

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 74.84632 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			99.4388
Sample Weight (dry)			22.8116

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			5.2476
Sample <#230			17.564
% Passing #230			77

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.398	0.398 g	98.3	Gravel	
#18	1000	0	0.9414	0.9414 g	94.2	Sand	Coarse
#35	500	0	0.8988	0.8988 g	90.3	Sand	Medium
#60	250	0	1.0921	1.0921 g	85.5	Sand	Medium
#120	125	0	1.1345	1.1345 g	80.5	Sand	Fine
#230	63	0	0.7828	0.7828 g	77.1	Sand	Fine
				0 g	77.1	Sand	Fine
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

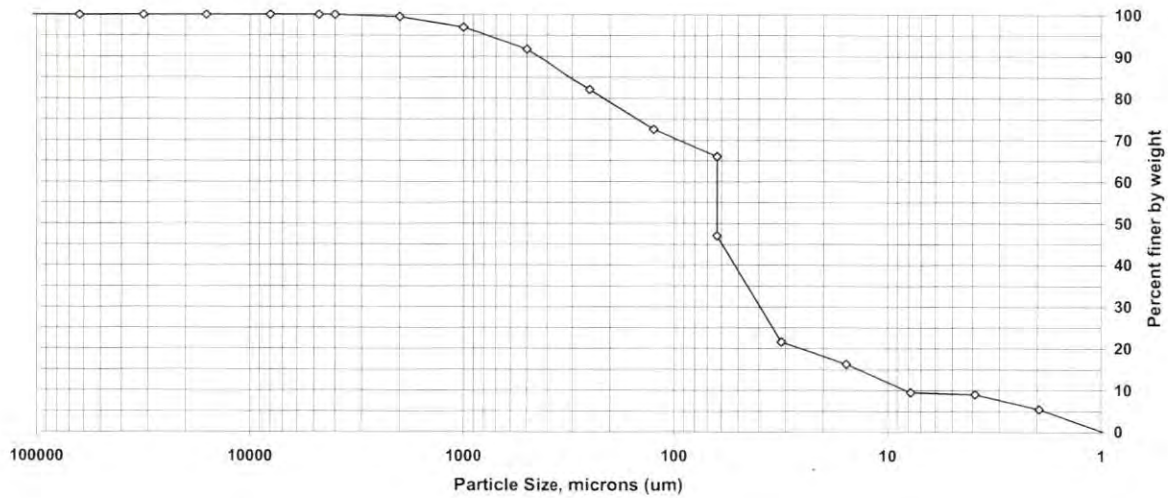
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (h:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	54.5428	54.8965	0.35128	5.31	23.27763068	53.722369	Sand	Very Fine
5	31.42	20	00:01:54	10	55.1933	55.4408	0.24508	7.615	33.38213891	20.34023	Silt	Coarse
6	15.6	20	00:07:36	10	61.3796	61.4748	0.09278	1.55	6.794788616	13.545442	Silt	Medium
7	7.8	20	00:30:26	10	61.4886	61.5528	0.06178	0.665	2.915183503	10.630258	Silt	Fine
8	3.9	20	02:02:00	10	62.2752	62.3261	0.04848	0.05	0.21918673	10.411072	Silt	Very Fine
9	1.95	20	08:06:00	10	59.2805	59.3304	0.04748	0.64	2.805590138	7.6054814	Clay	Coarse
10	0.98	20	32:28:00	10	62.7002	62.7373	0.03468	1.734	7.601395781	0.0040856	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-UP-23B-SS-A-090313
 Lab ID: 580-13052-A-8

Percent Solids: 26.17669%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	99.5	0.5
#18	1000	97.0	2.5
#35	500	91.7	5.3
#60	250	82.1	9.6
#120	125	72.6	9.5
#230	63	66.0	6.6
Phi Size 4	63	47.0	19.0
Phi Size 5	31.42	21.6	25.4
Phi Size 6	15.6	16.3	5.3
Phi Size 7	7.8	9.5	6.8
Phi Size 8	3.9	9.0	0.5
Phi Size 9	1.95	5.4	3.5
Phi Size 10	0.98	0.0	5.4
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	0.5
Sand	52.5
Very Coarse Sand	2.5
Coarse Sand	5.3
Medium Sand	9.6
Fine Sand	9.5
Very Fine Sand	25.6
Silt	38.0
Coarse Silt	25.4
Medium Silt	5.3
Fine Silt	6.8
Very Fine Silt	0.5
Clay	8.9
Coarse Clay	3.5
Medium Clay	5.4

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-UP-23B-SS-A-090313
 Lab Sample ID 580-13052-A-8

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 73.82331 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			98.6895
Sample Weight (dry)			22.7562

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			7.7472
Sample <#230			15.009
% Passing #230			66

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.1217	0.1217 g	99.5	Gravel	
#18	1000	0	0.576	0.576 g	97.0	Sand	Coarse
#35	500	0	1.2065	1.2065 g	91.7	Sand	Medium
#60	250	0	2.1901	2.1901 g	82.1	Sand	Medium
#120	125	0	2.1564	2.1564 g	72.6	Sand	Fine
#230	63	0	1.4965	1.4965 g	66.0	Sand	Fine
				0 g	66.0	Sand	Fine
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

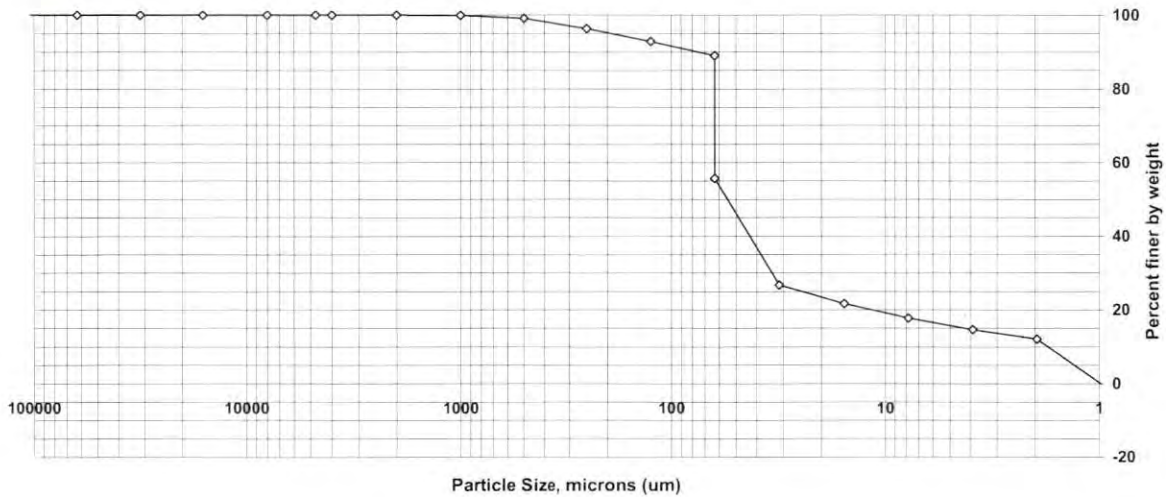
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (h:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	61.1938	61.4964	0.30018	4.32	18.98383737	47.016163	Sand	Very Fine
5	31.42	20	00:01:54	10	60.9819	61.1981	0.21378	5.79	25.44361537	21.572547	Silt	Coarse
6	15.6	20	00:07:36	10	62.0444	62.1448	0.09798	1.2	5.273288159	16.299259	Silt	Medium
7	7.8	20	00:30:26	10	60.7791	60.8555	0.07398	1.55	6.811330538	9.4879286	Silt	Fine
8	3.9	20	02:02:00	10	60.8079	60.8533	0.04298	0.115	0.505356782	8.9825718	Silt	Very Fine
9	1.95	20	08:06:00	10	61.9768	62.0199	0.04068	0.805	3.537497473	5.4450743	Clay	Coarse
10	0.98	20	32:28:00	10	61.3393	61.3663	0.02458	1.229	5.400725956	0.0443484	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: PO-AM-28-SS-A-090313
 Lab ID: 580-13052-A-9

Percent Solids: 25.91508%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	100.0	0.0
#18	1000	99.9	0.1
#35	500	99.1	0.8
#60	250	96.3	2.8
#120	125	92.8	3.5
#230	63	89.0	3.8
Phi Size 4	63	55.6	33.4
Phi Size 5	31.42	26.8	28.9
Phi Size 6	15.6	21.7	5.1
Phi Size 7	7.8	17.8	4.0
Phi Size 8	3.9	14.6	3.1
Phi Size 9	1.95	12.1	2.5
Phi Size 10	0.98	0.0	12.1
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	0.0
Sand	44.4
Very Coarse Sand	0.1
Coarse Sand	0.8
Medium Sand	2.8
Fine Sand	3.5
Very Fine Sand	37.2
Silt	41.0
Coarse Silt	28.9
Medium Silt	5.1
Fine Silt	4.0
Very Fine Silt	3.1
Clay	14.7
Coarse Clay	2.5
Medium Clay	12.1

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID PO-AM-28-SS-A-090313
 Lab Sample ID 580-13052-A-9

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 74.08492 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			101.4646
Sample Weight (dry)			23.523

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			2.559
Sample <#230			20.964
% Passing #230			89.1

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.006	0.006 g	100.0	Gravel	
#18	1000	0	0.0232	0.0232 g	99.9	Sand	Coarse
#35	500	0	0.1831	0.1831 g	99.1	Sand	Medium
#60	250	0	0.6477	0.6477 g	96.3	Sand	Medium
#120	125	0	0.8157	0.8157 g	92.8	Sand	Fine
#230	63	0	0.8833	0.8833 g	89.0	Sand	Fine
				0 g	89.0	Sand	Fine
				0 g	89.0		
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

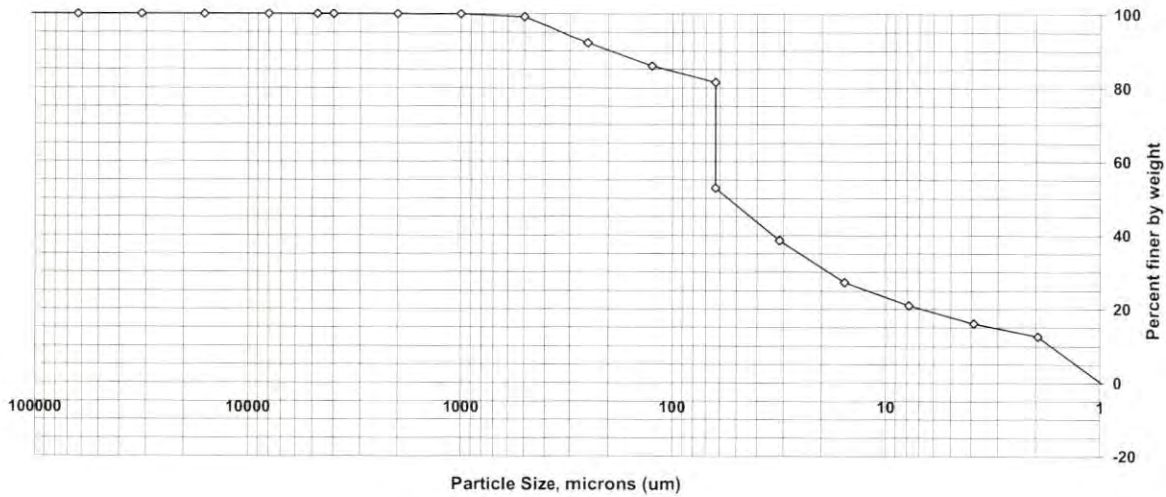
Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	50.7488	51.1705	0.41928	7.87	33.45661693	55.643383	Sand	Very Fine
5	31.42	20	00:01:54	10	55.2435	55.5078	0.26188	6.79	28.86536581	26.778017	Silt	Coarse
6	15.6	20	00:07:36	10	56.56	56.6885	0.12608	1.19	5.058878544	21.719139	Silt	Medium
7	7.8	20	00:30:26	10	52.8755	52.9802	0.10228	0.93	3.95357735	17.765561	Silt	Fine
8	3.9	20	02:02:00	10	53.3879	53.474	0.08368	0.735	3.124601454	14.64096	Silt	Very Fine
9	1.95	20	08:06:00	10	54.5362	54.6076	0.06898	0.595	2.529439272	12.111521	Clay	Coarse
10	0.98	20	32:28:00	10	54.9822	55.0417	0.05708	2.854	12.13280619	-0.0212856	Clay	Medium
			not defined	10								

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: B1-C16-SS-A-090313
 Lab ID: 580-13052-A-10

Percent Solids: 27.31967%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	100.0	0.0
#18	1000	99.9	0.1
#35	500	99.2	0.7
#60	250	92.2	7.0
#120	125	85.9	6.3
#230	63	81.5	4.4
Phi Size 4	63	52.8	28.7
Phi Size 5	31.42	38.6	14.1
Phi Size 6	15.6	27.3	11.4
Phi Size 7	7.8	21.0	6.2
Phi Size 8	3.9	16.1	4.9
Phi Size 9	1.95	12.6	3.5
Phi Size 10	0.98	0.0	12.6
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	0.0
Sand	47.2
Very Coarse Sand	0.1
Coarse Sand	0.7
Medium Sand	7.0
Fine Sand	6.3
Very Fine Sand	33.1
Silt	36.6
Coarse Silt	14.1
Medium Silt	11.4
Fine Silt	6.2
Very Fine Silt	4.9
Clay	16.2
Coarse Clay	3.5
Medium Clay	12.6

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID B1-C16-SS-A-090313
 Lab Sample ID 580-13052-A-10

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 72.68033 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			100.686
Sample Weight (dry)			24.6685

SHMP test

Standard ID 03/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 3.4
 Weight of aliquot 5 (mg) 2.4
 Average Weight (mg) 2.5

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			4.5535
Sample <#230			20.115
% Passing #230			81.5

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0	0 g	100.0	Gravel	
#18	1000	0	0.02	0.02 g	99.9	Sand	Coarse
#35	500	0	0.1754	0.1754 g	99.2	Sand	Medium
#60	250	0	1.7367	1.7367 g	92.2	Sand	Medium
#120	125	0	1.5481	1.5481 g	85.9	Sand	Fine
#230	63	0	1.0733	1.0733 g	81.5	Sand	Fine
				0 g	81.5	Sand	Fine
				0 g	81.5		
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi Interval	% Phi Interval	% finer	Classification	Sub Class
4	63		20 00:00:20	20	51.9275	52.3323	0.4023	7.09	28.74110708	52.758893	Sand	Very Fine
5	31.42		20 00:01:54	10	55.6811	55.9441	0.2605	3.49	14.14759714	38.611296	Silt	Coarse
6	15.6		20 00:07:36	10	54.2087	54.4019	0.1907	2.8	11.35050773	27.260788	Silt	Medium
7	7.8		20 00:30:26	10	54.2271	54.3643	0.1347	1.54	6.242779253	21.018009	Silt	Fine
8	3.9		20 02:02:00	10	52.332	52.4384	0.1039	1.21	4.905040842	16.112968	Silt	Very Fine
9	1.95		20 08:06:00	10	54.9587	55.0409	0.0797	0.87	3.526764903	12.586203	Clay	Coarse
10	0.98		20 32:28:00	10	57.1246	57.1894	0.0623	3.115	12.62743985	-0.0412368	Clay	Medium
			not defined	10								

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID B1-S37-SS-A-090313
 Lab Sample ID 580-13052-A-11

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 71.20554 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			101.8917
Sample Weight (dry)			28.1653

SHMP test

Standard ID 3/27/2009
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 2.9
 Weight of aliquot 5 (mg) 2.5
 Average Weight (mg) 2.42

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			2.8763
Sample <#230			25.289
% Passing #230			89.8

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0.0026	0.0026 g	100.0	Gravel	
#18	1000	0	0.0122	0.0122 g	100.0	Sand	Coarse
#35	500	0	0.3506	0.3506 g	98.8	Sand	Medium
#60	250	0	0.7418	0.7418 g	96.2	Sand	Medium
#120	125	0	0.8899	0.8899 g	93.0	Sand	Fine
#230	63	0	0.8792	0.8792 g	89.9	Sand	Fine
				0 g	89.9	Sand	Fine
				0 g			
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi interval	% Phi interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	55.044	55.522	0.50578	6.65	23.61061306	66.189387	Sand	Very Fine
5	31.42	20	00:01:54	10	54.9437	55.3189	0.37278	9.135	32.43352636	33.755861	Silt	Coarse
6	15.6	20	00:07:36	10	56.1907	56.3832	0.19008	2.495	8.858417982	24.897443	Silt	Medium
7	7.8	20	00:30:26	10	56.3158	56.4584	0.14018	1.6	5.680749007	19.216694	Silt	Fine
8	3.9	20	02:02:00	10	53.7534	53.864	0.10818	1.11	3.941019623	15.275674	Silt	Very Fine
9	1.95	20	08:06:00	10	53.6587	53.7471	0.08598	1.085	3.85225792	11.423416	Clay	Coarse
10	0.98	20	32:28:00	10	57.4267	57.4934	0.06428	3.214	11.41120457	0.0122115	Clay	Medium
			not defined	10								

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-13052-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:580-41722					
580-13052-1	PO-BA-24-SS-A-090313	T	Solid	PercentMoisture	
580-13052-2	PO-BA-25-SS-A-090316	T	Solid	PercentMoisture	
580-13052-3	PO-BA-26-SS-A-090316	T	Solid	PercentMoisture	
580-13052-4	PO-BA-27B-SS-A-090313	T	Solid	PercentMoisture	
580-13052-5	PO-UP-20-SS-A-090313	T	Solid	PercentMoisture	
580-13052-6	PO-UP-21-SS-A-090313	T	Solid	PercentMoisture	
580-13052-7	PO-UP-22-SS-A-090313	T	Solid	PercentMoisture	
580-13052-8	PO-UP-23B-SS-A-090313	T	Solid	PercentMoisture	
580-13052-9	PO-AM-28-SS-A-090313	T	Solid	PercentMoisture	
580-13052-10	B1-C16-SS-A-090313	T	Solid	PercentMoisture	
580-13052-11	B1-S37-SS-A-090313	T	Solid	PercentMoisture	
Analysis Batch:580-41961					
LCSSRM 580-41961/2	LCS-Standard Reference Material	T	Solid	9060_PSEP	
MB 580-41961/1	Method Blank	T	Solid	9060_PSEP	
580-13052-1	PO-BA-24-SS-A-090313	T	Solid	9060_PSEP	
580-13052-1DU	Duplicate	T	Solid	9060_PSEP	
580-13052-1MS	Matrix Spike	T	Solid	9060_PSEP	
580-13052-1MSD	Matrix Spike Duplicate	T	Solid	9060_PSEP	
580-13052-4	PO-BA-27B-SS-A-090313	T	Solid	9060_PSEP	
580-13052-5	PO-UP-20-SS-A-090313	T	Solid	9060_PSEP	
580-13052-6	PO-UP-21-SS-A-090313	T	Solid	9060_PSEP	
580-13052-7	PO-UP-22-SS-A-090313	T	Solid	9060_PSEP	
580-13052-8	PO-UP-23B-SS-A-090313	T	Solid	9060_PSEP	
580-13052-9	PO-AM-28-SS-A-090313	T	Solid	9060_PSEP	
580-13052-10	B1-C16-SS-A-090313	T	Solid	9060_PSEP	
580-13052-11	B1-S37-SS-A-090313	T	Solid	9060_PSEP	
Analysis Batch:580-41986					
LCSSRM 580-41986/2	LCS-Standard Reference Material	T	Solid	9060_PSEP	
MB 580-41986/1	Method Blank	T	Solid	9060_PSEP	
580-13052-2	PO-BA-25-SS-A-090316	T	Solid	9060_PSEP	
580-13052-2DU	Duplicate	T	Solid	9060_PSEP	
580-13052-2MS	Matrix Spike	T	Solid	9060_PSEP	
580-13052-2MSD	Matrix Spike Duplicate	T	Solid	9060_PSEP	
580-13052-3	PO-BA-26-SS-A-090316	T	Solid	9060_PSEP	

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-13052-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:580-42015					
580-13052-1	PO-BA-24-SS-A-090313	T	Solid	D2216-90	
580-13052-2	PO-BA-25-SS-A-090316	T	Solid	D2216-90	
580-13052-3	PO-BA-26-SS-A-090316	T	Solid	D2216-90	
580-13052-4	PO-BA-27B-SS-A-090313	T	Solid	D2216-90	
580-13052-5	PO-UP-20-SS-A-090313	T	Solid	D2216-90	
580-13052-6	PO-UP-21-SS-A-090313	T	Solid	D2216-90	
580-13052-7	PO-UP-22-SS-A-090313	T	Solid	D2216-90	
580-13052-8	PO-UP-23B-SS-A-090313	T	Solid	D2216-90	
580-13052-9	PO-AM-28-SS-A-090313	T	Solid	D2216-90	
580-13052-10	B1-C16-SS-A-090313	T	Solid	D2216-90	
580-13052-11	B1-S37-SS-A-090313	T	Solid	D2216-90	

Report Basis

T = Total

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-13052-1

Method Blank - Batch: 580-41961

Method: 9060_PSEP
Preparation: N/A

Lab Sample ID: MB 580-41961/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/27/2009 1202
Date Prepared: N/A

Analysis Batch: 580-41961
Prep Batch: N/A
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon	ND		610	2000

LCS-Standard Reference Material - Batch:

Method: 9060_PSEP
Preparation: N/A

Lab Sample ID: LCSSRM 580-41961/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/27/2009 1202
Date Prepared: N/A

Analysis Batch: 580-41961
Prep Batch: N/A
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon	3400	4700	138	12.8 - 187	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 580-41961

Method: 9060_PSEP
Preparation: N/A

MS Lab Sample ID: 580-13052-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/27/2009 1202
Date Prepared: N/A

Analysis Batch: 580-41961
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 51.8 mg
Final Weight/Volume: 51.8 mg

MSD Lab Sample ID: 580-13052-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/27/2009 1202
Date Prepared: N/A

Analysis Batch: 580-41961
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 52.2 mg
Final Weight/Volume: 52.2 mg

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Total Organic Carbon	98	97	76 - 128	2	28		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-13052-1

Matrix Spike/ Matrix Spike Duplicate Data Report - Batch: 580-41961

Method: 9060_PSEP
Preparation: N/A

MS Lab Sample ID: 580-13052-1 Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/27/2009 1202
Date Prepared: N/A

MSD Lab Sample ID: 580-13052-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/27/2009 1202
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon	900 J	19300	19200	19800	19500

Duplicate - Batch: 580-41961

Method: 9060_PSEP
Preparation: N/A

Lab Sample ID: 580-13052-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/27/2009 1202
Date Prepared: N/A

Analysis Batch: 580-41961
Prep Batch: N/A
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Organic Carbon	900 J	900	0	20	J
Total Organic Carbon	900 J	900	0	20	J

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-13052-1

Method Blank - Batch: 580-41986

Method: 9060_PSEP
Preparation: N/A

Lab Sample ID: MB 580-41986/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2009 1906
Date Prepared: N/A

Analysis Batch: 580-41986
Prep Batch: N/A
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon	ND		610	2000

LCS-Standard Reference Material - Batch:

Method: 9060_PSEP
Preparation: N/A

Lab Sample ID: LCSSRM 580-41986/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2009 1906
Date Prepared: N/A

Analysis Batch: 580-41986
Prep Batch: N/A
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon	3400	4700	138	12.8 - 187	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-41986**

Method: 9060_PSEP
Preparation: N/A

MS Lab Sample ID: 580-13052-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2009 1906
Date Prepared: N/A

Analysis Batch: 580-41986
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50.7 mg
Final Weight/Volume: 50.7 mg

MSD Lab Sample ID: 580-13052-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2009 1906
Date Prepared: N/A

Analysis Batch: 580-41986
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 53.0 mg
Final Weight/Volume: 53.0 mg

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Total Organic Carbon	99	99	76 - 128	4	28		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Anchor Environmental LLC

Job Number: 580-13052-1

Matrix Spike/ Matrix Spike Duplicate Data Report - Batch: 580-41986

Method: 9060_PSEP
Preparation: N/A

MS Lab Sample ID: 580-13052-2 Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2009 1906
Date Prepared: N/A

MSD Lab Sample ID: 580-13052-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2009 1906
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon	700 J	19700	18900	20200	19400

Duplicate - Batch: 580-41986

Method: 9060_PSEP
Preparation: N/A

Lab Sample ID: 580-13052-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2009 1906
Date Prepared: N/A

Analysis Batch: 580-41986
Prep Batch: N/A
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Organic Carbon	700 J	ND	NC	20	
Total Organic Carbon	700 J	ND	NC	20	

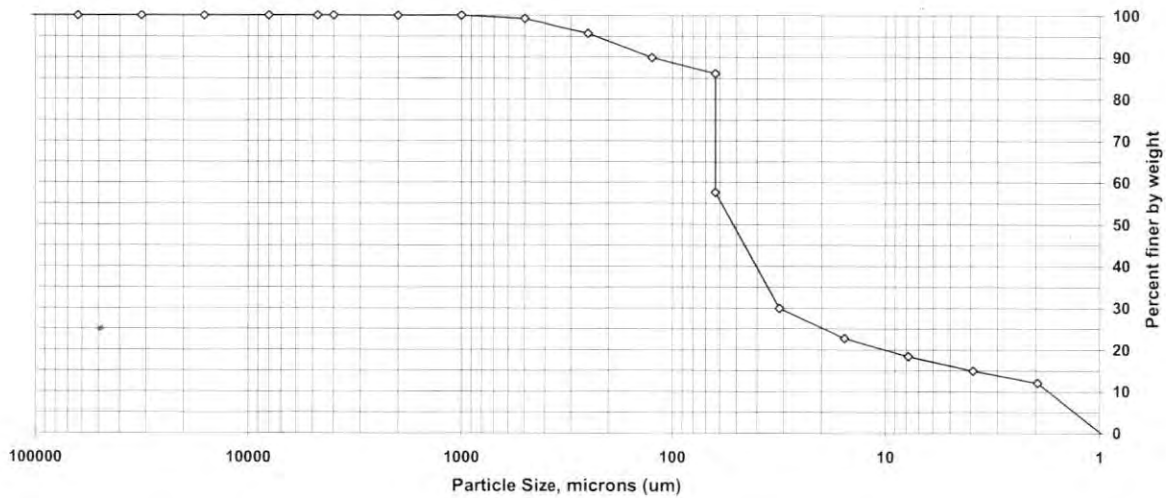
Calculations are performed before rounding to avoid round-off errors in calculated results.

Particle Size of Sediments by PSEP/Plumb 1981

Client: Anchor Environmental LLC
 Sample ID: B1-S37-SS-A-090313
 Lab ID: 580-13052-A-11 DU

Percent Solids: 28.79446%
 Specific Gravity: 2.650

Date Received: 3/16/2009
 Start Date: 3/24/2009
 End Date: 4/1/2009



Sieve size	Particle size, um	Percent finer	Incremental percent
5 inch	125000	100.0	0.0
2.5 inch	63000	100.0	0.0
1.25 inch	31500	100.0	0.0
5/8 inch	16000	100.0	0.0
5/16 inch	8000	100.0	0.0
#4	4750	100.0	0.0
#5	4000	100.0	0.0
#10	2000	100.0	0.0
#18	1000	100.0	0.0
#35	500	99.2	0.8
#60	250	95.7	3.5
#120	125	89.9	5.8
#230	63	86.1	3.8
Phi Size 4	63	57.7	28.4
Phi Size 5	31.42	29.9	27.7
Phi Size 6	15.6	22.7	7.2
Phi Size 7	7.8	18.4	4.3
Phi Size 8	3.9	14.9	3.5
Phi Size 9	1.95	12.1	2.9
Phi Size 10	0.98	0.0	12.0
>Phi Size 10	<0.98		0.0

Soil Classification	Percent of Total Sample
Cobbles	0.0
Gravel	0.0
Sand	42.3
Very Coarse Sand	0.0
Coarse Sand	0.8
Medium Sand	3.5
Fine Sand	5.8
Very Fine Sand	32.2
Silt	42.7
Coarse Silt	27.7
Medium Silt	7.2
Fine Silt	4.3
Very Fine Silt	3.5
Clay	14.9
Coarse Clay	2.9
Medium Clay	12.0

TestAmerica Tacoma

Sediment Grain Size - SEF/DMEF/PSEP

Client Anchor Environmental LLC
 Client Sample ID B1-S37-SS-A-090313
 Lab Sample ID 580-13052-A-11 DU

Date Received 3/16/2009
 Start Date 3/24/2009
 End Date 4/1/2009

Dry Weight Determination

Tin Weight 0 g
 Wet Sample + Tin 0 g
 Dry Sample + Tin 0 g
 % Moisture 71.20554 %

Default Soil Gravity 2.65

Sample Weights

	Tare	Pan+Sample	Sample
Sample Weight (Wet)			99.3637
Sample Weight (dry)			26.3121

SHMP test

Standard ID 10/15/2008
 Weight of aliquot 1 (mg) 1.9
 Weight of aliquot 2 (mg) 2.5
 Weight of aliquot 3 (mg) 2.3
 Weight of aliquot 4 (mg) 3.4
 Weight of aliquot 5 (mg) 2.4
 Average Weight (mg) 2.5

Sample Split

	Tare	Pan+Sample	Sample
Sample >=#230			3.6371
Sample <#230			22.675
% Passing #230			86.2

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare	Pan+Sample	Sample	% Finer	Classification	Sub Class
5 inch	125000	0	0	0 g	100.0	Cobbles	
2.5 inch	63000	0	0	0 g	100.0	Cobbles	
1.25 inch	31500	0	0	0 g	100.0	Gravel	
5/8 inch	16000	0	0	0 g	100.0	Gravel	
5/16 inch	8000	0	0	0 g	100.0	Gravel	
#4	4750	0	0	0 g	100.0	Gravel	
#5	4000	0	0	0 g	100.0	Gravel	
#10	2000	0	0	0 g	100.0	Gravel	
#18	1000	0	0.0059	0.0059 g	100.0	Sand	Coarse
#35	500	0	0.2004	0.2004 g	99.2	Sand	Medium
#60	250	0	0.917	0.917 g	95.7	Sand	Medium
#120	125	0	1.5205	1.5205 g	89.9	Sand	Fine
#230	63	0	0.9933	0.9933 g	86.1	Sand	Fine
				0 g	86.1	Sand	Fine
				0 g	86.1		
Remainder				0 g			

Number of aliquots SHMP used 1

Silt/Clay Fraction (Pipette Test)

Pipette Size (Phi)	Size (um)	Temp C	Withdrawal Time (hh:mm:ss)	Withdrawal Depth	Tare Weight	Tin + residue	Residue weight - SHMP	Phi interval	% Phi Interval	% finer	Classification	Sub Class
4	63	20	00:00:20	20	56.1142	56.5702	0.4535	7.505	28.52299892	57.677001	Sand	Very Fine
5	31.42	20	00:01:54	10	56.364	56.6699	0.3034	7.3	27.74388969	29.933111	Silt	Coarse
6	15.6	20	00:07:36	10	57.2337	57.3936	0.1574	1.895	7.202009722	22.731102	Silt	Medium
7	7.8	20	00:30:26	10	57.4621	57.5841	0.1195	1.13	4.294602103	18.4365	Silt	Fine
8	3.9	20	02:02:00	10	56.5087	56.6081	0.0969	0.92	3.496490208	14.940009	Silt	Very Fine
9	1.95	20	08:06:00	10	53.9797	54.0607	0.0785	0.76	2.888404954	12.051604	Clay	Coarse
10	0.98	20	32:28:00	10	58.2754	58.3412	0.0633	3.165	12.02868642	0.022918	Clay	Medium
			not defined	10								

DATA REPORTING QUALIFIERS

Client: Anchor Environmental LLC

Job Number: 580-13052-1

Lab Section	Qualifier	Description
General Chemistry	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Login Sample Receipt Check List

Client: Anchor Environmental LLC

Job Number: 580-13052-1

Login Number: 13052
Creator: Harding, Jessica
List Number: 1

List Source: TestAmerica Tacoma

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

PERCENT MOISTURE DATA PACKAGE

General Chemistry Worksheet

Batch Number: 580-42015

Method: D2216-90

Analyst: Moore, Delynn

Date Open: Mar 31 2009 11:21AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of Dry Sample	Mass of wet Sample
580-13052-B-1	PO-BA-24-SS-A-09031	D2216_90	T	6.3801 g	32.5373 g	36.4122 g
580-13052-B-2	PO-BA-25-SS-A-09031	D2216_90	T	6.3492 g	35.4387 g	39.6158 g
580-13052-B-3	PO-BA-26-SS-A-09031	D2216_90	T	6.3483 g	32.9224 g	37.6736 g
580-13052-B-4	PO-BA-27B-SS-A-09031	D2216_90	T	6.3538 g	35.7244 g	39.7844 g
580-13052-A-5	PO-UP-20-SS-A-09031	D2216_90	T	6.3441 g	15.2637 g	37.5807 g
580-13052-A-6	PO-UP-21-SS-A-09031	D2216_90	T	6.4120 g	16.2596 g	36.9912 g
580-13052-A-7	PO-UP-22-SS-A-09031	D2216_90	T	6.4046 g	14.4170 g	38.2584 g
580-13052-A-8	PO-UP-23B-SS-A-09031	D2216_90	T	6.3713 g	15.0317 g	39.4557 g
580-13052-A-9	PO-AM-28-SS-A-09031	D2216_90	T	6.3791 g	14.4893 g	37.6744 g
580-13052-A-10	B1-C16-SS-A-090313	D2216_90	T	6.3847 g	15.1583 g	38.4993 g
580-13052-A-11	B1-S37-SS-A-090313	D2216_90	T	6.3712 g	16.0119 g	39.8523 g
580-13052-A-11~DU		D2216_90	T	6.3590 g	15.9233 g	39.6280 g

Page 4 of 93

04/02/2009

TOTAL ORGANIC CARBON DATA PACKAGE


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*****
**                               OI Analytical SOLIDS TOC          **
**                               RUN SETUP                          **
*****

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```

Operator:   AJM
Data Path:  C:\PROGRA~1\OIANAL~1\TOCREP~1\DATASO\032709
WinTOC Version:  3.0
Firmware Version: 3.0

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*****
**                               CONFIGURATION                      **
*****

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Analysis Mode:  TOC                               Base Temp      :   900 0C
Sample Intro :  Solids                           Noise Threshold:  2.0

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*****
**                               CALIBRATION                       **
*****

```

080508 Fri Mar 27 11:03:21 2009

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*****
**                               METHODS                          **
*****

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SOLIDSA Tue Apr 01 16:22:23 2008

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*****
**                               SEQUENCE                        **
*****

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032709 Fri Mar 27 11:39:36 2009

Start Pos/Vial #: 1, Stop Pos/Vial #: 22

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Mass (mg)	Remarks
1	ICV 1500-2-4	SOLIDSA	Sample	1	100.000	
2	CCV 1500-2-5	solidsa	Sample	1	100.000	
3	CCB	solidsa	Sample	1	100.000	
4	MB	solidsa	Sample	1	100.000	
5	LCSSRM	solidsa	Sample	1	50.000	
6	13052-B-1	solidsa	Sample	1	50.000	
7	13052-B-1 dup	solidsa	Sample	1	50.000	
8	13052-B-1 trip	solidsa	Sample	1	50.000	
9	13052-B-1 ms	solidsa	Sample	1	50.000	
10	13052-B-1 msd	solidsa	Sample	1	50.000	
11	13052-B-4	solidsa	Sample	2	50.000	
12	13052-B-5	solidsa	Sample	2	50.000	
13	13052-B-6	solidsa	Sample	2	50.000	
14	CCV 1500-2-5	solidsa	Sample	1	100.000	
15	CCB	solidsa	Sample	1	100.000	
16	13052-B-7	solidsa	Sample	2	50.000	
17	13052-A-8	solidsa	Sample	2	50.000	
18	13052-A-9	solidsa	Sample	2	50.000	
19	13052-A-10	solidsa	Sample	2	50.000	
20	13052-A-11	solidsa	Sample	2	50.000	
21	CCV 1500-2-5	solidsa	Sample	1	100.000	
22	CCB	solidsa	Sample	1	100.000	

 ** RESULTS - 032709 **

Pos/Vial: 1 Name: ICV 1500-2-4 Analyzed: 27Mar2009 11:40
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00251	100.000	13169	3.138	3.14

Pos/Vial: 2 Name: CCV 1500-2-5 Analyzed: 27Mar2009 11:55
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00252	100.000	8081	1.920	1.92

Pos/Vial: 3 Name: CCB Analyzed: 27Mar2009 12:11
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00253	100.000	38	-0.005	0.00

Pos/Vial: 4 Name: MB Analyzed: 27Mar2009 12:26
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00254	100.000	68	0.002	0.00

Pos/Vial: 5 Name: LCSSRM Analyzed: 27Mar2009 12:45
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00255	51.200	1061	0.240	0.47

Pos/Vial: 6 Name: 13052-B-1 Analyzed: 27Mar2009 13:00
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00256	50.000	1061	0.240	0.47

1 00256 49.900 239 0.043 0.09

Pos/Vial: 7 Name: 13052-B-1 dup Analyzed: 27Mar2009 13:16
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
Rep Datafile				
1 00257	52.200	266	0.050	0.09

Pos/Vial: 8 Name: 13052-B-1 trip Analyzed: 27Mar2009 14:01
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
Rep Datafile				
1 00258	51.400	248	0.045	0.09

Pos/Vial: 9 Name: 13052-B-1 ms Analyzed: 27Mar2009 14:16
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
Rep Datafile				
1 00259	51.800	4344	1.026	1.98

Pos/Vial: 10 Name: 13052-B-1 msd Analyzed: 27Mar2009 14:32
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
Rep Datafile				
1 00260	52.200	4320	1.020	1.95

Pos/Vial: 11 Name: 13052-B-4 Analyzed: 27Mar2009 14:47
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
Rep Datafile				
1 00261	51.100	166	0.026	0.05
2 00261	51.700	201	0.034	0.07

Avg - - 0.06

Pos/Vial: 12 Name: 13052-B-5 Analyzed: 27Mar2009 15:18
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
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Rep	Datafile	Size (mg)	Area (cts)	Mass (mgC)	Conc (% Carbon)
1	00262	50.800	9567	2.276	4.48
2	00262	50.500	9511	2.263	4.48
Avg					4.48

Pos/Vial: 13 Name: 13052-B-6 Analyzed: 27Mar2009 15:48
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES					
Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1	00263	51.500	7597	1.804	3.50
2	00263	51.200	7565	1.797	3.51
Avg					3.51

Pos/Vial: 14 Name: CCV 1500-2-5 Analyzed: 27Mar2009 16:20
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES					
Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1	00264	100.000	7981	1.896	1.90

Pos/Vial: 15 Name: CCB Analyzed: 27Mar2009 16:36
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES					
Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1	00265	100.000	0	-0.014	-0.01

Pos/Vial: 16 Name: 13052-B-7 Analyzed: 27Mar2009 16:51
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES					
Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1	00266	49.600	8834	2.101	4.23
2	00266	52.900	9310	2.214	4.19
Avg					4.21

Pos/Vial: 17 Name: 13052-A-8 Analyzed: 27Mar2009 17:22
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES					
Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)

1	00267	49.600	10616	2.527	5.09
2	00267	52.200	11298	2.690	5.15
Avg		-	-	-	5.12

Pos/Vial: 18 Name: 13052-A-9 Analyzed: 27Mar2009 17:52
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1	00268	50.100	7682	1.825	3.64	
2	00268	50.800	7859	1.867	3.68	
Avg		-	-	-	3.66	

Pos/Vial: 19 Name: 13052-A-10 Analyzed: 27Mar2009 18:23
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1	00269	51.700	7593	1.803	3.49	
2	00269	50.300	7444	1.768	3.51	
Avg		-	-	-	3.50	

Pos/Vial: 20 Name: 13052-A-11 Analyzed: 27Mar2009 18:53
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1	00270	52.400	7822	1.858	3.55	
2	00270	51.200	7360	1.748	3.41	
Avg		-	-	-	3.48	

Pos/Vial: 21 Name: CCV-1500-2-5 Analyzed: 27Mar2009 19:23
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1	00271	100.000	7964	1.892	1.89	

Pos/Vial: 22 Name: CCB Analyzed: 27Mar2009 19:39
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Rep	Datafile	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
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Rep	Datafile	(mg)	(cts)	(mgC)	(% Carbon)
1	00272	100.000	0	-0.014	-0.01

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*****
**              OI Analytical SOLIDS TOC              **
**              RUN SETUP                            **
*****

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Operator:   AJM
Data Path:  C:\PROGRA~1\OIANAL~1\TOCREP~1\DATASO\033009
WinTOC Version: 3.0
Firmware Version: 3.0

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*****
**              CONFIGURATION                        **
*****

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Analysis Mode: TOC                      Base Temp      : 900 OC
Sample Intro  : Solids                   Noise Threshold: 2.0

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*****
**              CALIBRATION                        **
*****

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080508 Mon Mar 30 10:54:30 2009

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*****
**              METHODS                            **
*****

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SOLIDSA Tue Apr 01 16:22:23 2008

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*****
**              SEQUENCE                          **
*****

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033009 Mon Mar 30 11:19:06 2009

Start Pos/Vial #: 1, Stop Pos/Vial #: 21

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Mass (mg)	Remarks
1	ICV 1500-2-4	SOLIDSA	Sample	1	100.000	
2	CCV 1500-2-5	solidsa	Sample	1	100.000	
3	CCB	solidsa	Sample	1	100.000	
4	MB	solidsa	Sample	1	100.000	
5	LCSSRM	solidsa	Sample	1	50.000	
6	13052-B-2	solidsa	Sample	1	50.000	
7	13052-B-2 dup	solidsa	Sample	1	50.000	
8	13052-B-2 trip	solidsa	Sample	1	50.000	
9	13052-B-2 ms	solidsa	Sample	1	50.000	
10	13052-B-2 msd	solidsa	Sample	1	50.000	
11	13052-B-3	solidsa	Sample	2	50.000	
12	13084-A-1	solidsa	Sample	2	50.000	
13	13084-A-2	solidsa	Sample	2	50.000	
14	CCV 1500-2-5	solidsa	Sample	1	100.000	
15	CCB	solidsa	Sample	1	100.000	
16	13084-A-3	solidsa	Sample	2	50.000	
17	13084-A-4	solidsa	Sample	2	50.000	
18	13084-A-5	solidsa	Sample	2	50.000	
19	13084-A-6	solidsa	Sample	2	50.000	
20	CCV 1500-2-5	solidsa	Sample	1	100.000	
21	CCB	solidsa	Sample	1	100.000	

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*****

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** RESULTS - 033009 **

Pos/Vial: 1 Name: ICV 1500-2-4 Analyzed: 30Mar2009 11:19
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00273	100.000	13132	3.129	3.13

Pos/Vial: 2 Name: CCV 1500-2-5 Analyzed: 30Mar2009 11:35
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00274	100.000	8142	1.935	1.93

Pos/Vial: 3 Name: CCB Analyzed: 30Mar2009 11:56
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00275	100.000	37	-0.005	-0.01

Pos/Vial: 4 Name: MB Analyzed: 30Mar2009 12:11
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00276	100.000	0	-0.014	-0.01

Pos/Vial: 5 Name: LCSSRM Analyzed: 30Mar2009 12:54
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00277	49.900	1049	0.237	0.47

Pos/Vial: 6 Name: 13052-B-2 Analyzed: 30Mar2009 13:16
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00278	52.100	212	0.037	0.07

 Pos/Vial: 7 Name: 13052-B-2 dup Analyzed: 30Mar2009 13:31
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00279	51.300	145	0.021	0.04

 Pos/Vial: 8 Name: 13052-B-2 trip Analyzed: 30Mar2009 13:48
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00280	50.400	163	0.025	0.05

 Pos/Vial: 9 Name: 13052-B-2 ms Analyzed: 30Mar2009 14:03
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00281	50.700	4344	1.026	2.02

 Pos/Vial: 10 Name: 13052-B-2 msd Analyzed: 30Mar2009 14:19
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00282	53.000	4349	1.027	1.94

 Pos/Vial: 11 Name: 13052-B-3 Analyzed: 30Mar2009 14:35
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00283	51.500	161	0.024	0.05
2 00283	50.800	147	0.021	0.04
Avg		-	-	0.04

 Pos/Vial: 12 Name: 13084-A-1 Analyzed: 30Mar2009 15:05
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)

Rep	Datafile	(mg)	(cts)	(mgC)	(% Carbon)
1	00284	52.800	5163	1.222	2.31
2	00284	50.200	4731	1.118	2.23
Avg					2.27

Pos/Vial: 13 Name: 13084-A-2 Analyzed: 30Mar2009 15:37
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample	TOC	TOC	TOC	
Rep	Size	Area	Mass	Conc	
Datafile	(mg)	(cts)	(mgC)	(% Carbon)	
1	00285	52.300	4762	1.126	2.15
2	00285	53.400	4444	1.050	1.97
Avg					2.06

Pos/Vial: 14 Name: CCV 1500-2-5 Analyzed: 30Mar2009 16:08
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample	TOC	TOC	TOC	
Rep	Size	Area	Mass	Conc	
Datafile	(mg)	(cts)	(mgC)	(% Carbon)	
1	00286	100.000	7987	1.898	1.90

Pos/Vial: 15 Name: CCB Analyzed: 30Mar2009 16:23
 Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample	TOC	TOC	TOC	
Rep	Size	Area	Mass	Conc	
Datafile	(mg)	(cts)	(mgC)	(% Carbon)	
1	00287	100.000	46	-0.003	0.00

Pos/Vial: 16 Name: 13084-A-3 Analyzed: 30Mar2009 16:45
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample	TOC	TOC	TOC	
Rep	Size	Area	Mass	Conc	
Datafile	(mg)	(cts)	(mgC)	(% Carbon)	
1	00288	50.600	1609	0.371	0.73
2	00288	51.600	1926	0.447	0.87
Avg					0.80

Pos/Vial: 17 Name: 13084-A-4 Analyzed: 30Mar2009 17:16
 Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample	TOC	TOC	TOC
Rep	Size	Area	Mass	Conc
Datafile	(mg)	(cts)	(mgC)	(% Carbon)

1 00289 54.400 3097 0.727 1.34
2 00289 54.400 3251 0.764 1.40

Avg - - 1.37

Pos/Vial: 18 Name: 13084-A-5 Analyzed: 30Mar2009 17:47
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00290	50.600	1345	0.308	0.61
2 00290	51.500	1473	0.338	0.66

Avg - - 0.63

Pos/Vial: 19 Name: 13084-A-6 Analyzed: 30Mar2009 18:17
Run ID: 1 Meth: solidsa Mass (mg): 50.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00291	52.200	1265	0.289	0.55
2 00291	53.300	1272	0.290	0.54

Avg - - 0.55

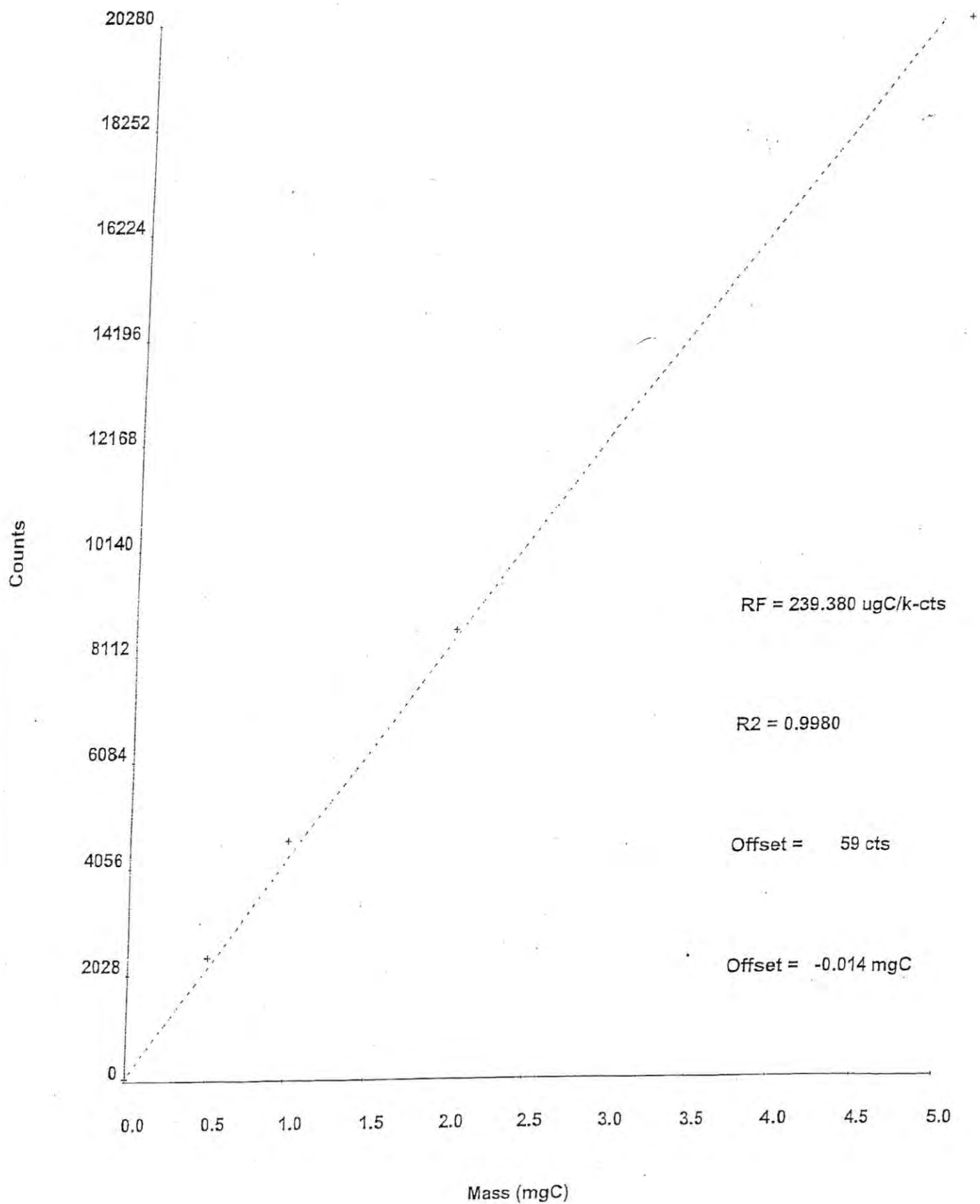
Pos/Vial: 20 Name: CCV 1500-2-5 Analyzed: 30Mar2009 18:48
Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00292	100.000	7980	1.896	1.90

Pos/Vial: 21 Name: CCB Analyzed: 30Mar2009 19:03
Run ID: 1 Meth: solidsa Mass (mg): 100.000

SAMPLES	Sample Size (mg)	TOC Area (cts)	TOC Mass (mgC)	TOC Conc (% Carbon)
1 00293	100.000	0	-0.014	-0.01

INITIAL CALIBRATION



 ** CALIBRATION **

508 Thu Nov 06 18:40:33 2008

Std. #	Used	Mass (mgC)	RF (ugc/k-cts):	0.000
1	Yes	0.000	R-Squared:	0.0000
2	Yes	0.500	Offset (cts):	0
3	Yes	1.000	Offset (mgC):	0.000
4	Yes	2.000	Calibration Mode:	TC
5	Yes	5.000	Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5
1	51	2350	4564	8558	20281
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-

(* = unused)

 Analysis Mode: TOC Base Temp : 900 OC
 Sample Intro : Solids Noise Threshold: 2.0

 ** CALIBRATION **

080508 Tue Aug 05 15:25:30 2008

 ** METHODS **

SOLIDSA Tue Apr 01 16:22:23 2008

 ** SEQUENCE **

080508 Tue Aug 05 13:10:04 2008

Start Pos/Vial #: 1, Stop Pos/Vial #: 5

Pos/Vial	Sample Name	Method	Run Type	# Rep	Mass (mg)	Remarks
1	0 mg/kg	SOLIDSA	Std. 1	1	0.000	
2	5000 mg/kg	solidsa	Std. 2	1	0.500	
3	10000 mg/kg	solidsa	Std. 3	1	1.000	
4	20000 mg/kg	solidsa	Std. 4	1	2.000	
5	50000 mg/kg	solidsa	Std. 5	1	5.000	

 ** RESULTS - 080508 **

Pos/Vial: 1 Name: 0 mg/kg Analyzed: 05Aug2008 15:27
 Run ID: 1 Meth: solidsa Mass (mg): 0.000

STD. 1	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile			
1 00022	0.000	51	0.000

** Calibration: RF (ugc/k-cts): 247.540
 R-Squared: 0.9976
 Offset (cts): 55
 Offset (mgC): -0.014

 Pos/Vial: 2 Name: 5000 mg/kg Analyzed: 05Aug2008 15:35
 Run ID: 1 Meth: solidsa Mass (mg): 0.500

STD. 2	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile			
1 00023	0.500	2350	0.500

** Calibration: RF (ugc/k-cts): 247.270
 R-Squared: 0.9974

Offset (cts): 56
Offset (mgC): -0.014

Pos/Vial: 3 Name: 10000 mg/kg Analyzed: 05Aug2008 15:41
Run ID: 1 Meth: solidsa Mass (mg): 1.000

STD. 3	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile	(mg)	(cts)	(mgC)
1 00024	1.000	4564	1.000

** Calibration: RF (ugc/k-cts): 242.620
R-Squared: 0.9967
Offset (cts): 60
Offset (mgC): -0.015

Pos/Vial: 4 Name: 20000 mg/kg Analyzed: 05Aug2008 15:47
Run ID: 1 Meth: solidsa Mass (mg): 2.000

STD. 4	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile	(mg)	(cts)	(mgC)
1 00025	2.000	8558	2.000

** Calibration: RF (ugc/k-cts): 243.050
R-Squared: 0.9968
Offset (cts): 60
Offset (mgC): -0.015

Pos/Vial: 5 Name: 50000 mg/kg Analyzed: 05Aug2008 15:53
Run ID: 1 Meth: solidsa Mass (mg): 5.000

STD. 5	Sample Size (mg)	TC Area (cts)	TC Mass (mgC)
Rep Datafile	(mg)	(cts)	(mgC)
1 00026	5.000	20281	5.000

** Calibration: RF (ugc/k-cts): 239.380
R-Squared: 0.9980
Offset (cts): 59
Offset (mgC): -0.014

E-Possible IR failure. 06Aug2008 11:20

24 March 2009

Dan Berlin
 Anchor QEA, L.L.C.
 1423 3rd Avenue, Suite 300
 Seattle, WA 98101

Ph.: 206.287.9130 Email: jdunay@anchorenv.com

Subject: Certificate of Results

Dear Dan;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans. The insert below summarizes the relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. A brief description of the report's components is provided. Results are reported on a dry-weight basis and relate only to the items tested

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	080166-01
AP Project No.	P1158
Analytical Protocol	Method 1613B
No. Samples Submitted	4
No. Samples Analyzed	4
No. Laboratory Method Blanks	2
No. OPRs / Batch CS3	2
No. Outstanding Samples	0
Date Received	27-Feb-2009
Condition Received	Good
Temperature upon Receipt (C)	3
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	see below
Analytical Difficulties	see below

QC Annotations:

1. The new ratio – [Ra] -- for 2,3,7,8-TCDD following the $^{37}\text{Cl}_4$ -2,3,7,8-TCDD correction is shown between squared brackets in the DL column.
2. An “*” is assigned to target analytes with a concentration above the method’s calibration curve. Results are considered estimates.
3. Sample PO-BA-26-SS-A-090226 and sample PO-BA-27B-SS-A-090226 were re-extracted due to low recoveries from the first extraction.

Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please, do not hesitate to contact us. Thank you for choosing Analytical Perspectives as part of your analytical support team.

Sincerely,



Kimberly Mace Ph.D.
Project Manager

The electronic version of this report contains 409 pages.
(add one page in count for the NELAC compliance statement) (+1)

P1158

ANALYTICAL PERSPECTIVES

Part 1

Narrative

21 pgs

- ✓ Letter
- ✓ QC Annotations
- ✓ Project Information

ANALYTICAL PERSPECTIVES

Part 2

Path

16 pgs

- ✓ Overview
- ✓ Protocol
- ✓ Extraction
- ✓ Analysis
- ✓ Spike Profile
- ✓ SOPs
- ✓ QC
- ✓ Reporting
- ✓ Special Requirements

Extraction
Tracking Sheets

Fractionation
Tracking Sheets

Injection
Tracking Sheets

ANALYTICAL PERSPECTIVES

Part 3

Results

135 pgs

- ✓ Summary Topsheets
- ✓ Raw Data
- ✓ SICPs
- ✓ Areas
- ✓ Retention Times
- ✓ S/N
- ✓ Ion Abundance Ratios

ANALYTICAL PERSPECTIVES

Part 4

Performance

52 pgs

System Checks

- ✓ Mass Spectrometry
- ✓ Gas Chromatography
- ✓ Initial Calibration
- ✓ Continuing Calibration
- ✓ BCS₃, OPR

Part 4D
ICAL
115 pgs

Part 4E
OPR
64 pgs

STATE CERTIFICATION ID #s	
ARIZONA	AZ0696
CALIFORNIA	01166CA
FLORIDA	E87608
LOUISIANA	4024
MICHIGAN	9951
NEW JERSEY	NC005
NEW YORK	11735
NORTH CAROLINA	37783
PENNSYLVANIA	37-1849
SOUTH CAROLINA	99054

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT FOR IN FULL
WITHOUT THE ORIGINAL APPROVAL OF THE LABORATORY

Picture File 5 pgs

P1158 - TEQ
Project ID: 080166-01

Sample Summary
Part 1 (dry weight)



Method 1613

Analyte	0_6630_MB001	0_6682_MB001	PO-BA-24-SS-A 090226	PO-BA-25-SS-A 090226	PO-BA-26-SS-A 090226	PO-BA-27B-SS- A-090226
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
2,3,7,8-TCDD	(0.0728)	(0.0456)	[0.836]	0.998	0.979	[0.739]
1,2,3,7,8-PeCDD	(0.209)	(0.0664)	5.36	4.88	5.43	4.16
1,2,3,4,7,8-HxCDD	(0.102)	(0.102)	10.5	9.72	9.67	7.97
1,2,3,6,7,8-HxCDD	(0.114)	(0.124)	52.6	55	56.8	43
1,2,3,7,8,9-HxCDD	(0.116)	(0.122)	21.8	21.7	20.7	16.3
1,2,3,4,6,7,8-HpCDD	(0.0604)	(0.0866)	1770	1420	1640	922
OCDD	(0.176)	(0.0458)	18000	13600	13800	7340
2,3,7,8-TCDF	(0.059)	(0.0439)	3.76	3.86	3.71	3.31
1,2,3,7,8-PeCDF	(0.149)	(0.094)	3.93	4.22	4.25	3.55
2,3,4,7,8-PeCDF	(0.133)	(0.0892)	7.95	8.94	9.24	7.3
1,2,3,4,7,8-HxCDF	(0.0387)	(0.0446)	18.9	21.1	23.3	16.1
1,2,3,6,7,8-HxCDF	(0.0303)	(0.0407)	8.5	9.06	8.94	7.12
2,3,4,6,7,8-HxCDF	(0.0352)	(0.0446)	12.6	13.6	13.7	10.5
1,2,3,7,8,9-HxCDF	(0.0552)	(0.0617)	3.7	4.35	4.58	3.91
1,2,3,4,6,7,8-HpCDF	(0.051)	(0.117)	298	335	315	247
1,2,3,4,7,8,9-HpCDF	(0.0746)	(0.169)	12.5	12.7	12.8	8.66
OCDF	(0.262)	(0.256)	673	686	690	433
ITEF TEQ (ND=0; EMPC=0)	0.00	0.00	59.6	53.9	56.9	36.3
ITEF TEQ (ND=0; EMPC=EMPC)	0.00	0.00	60.5	53.9	56.9	37.0
ITEF TEQ (ND=DL/2; EMPC=0)	0.154	0.0952	59.7	53.9	56.9	36.3
ITEF TEQ (ND=DL/2; EMPC=EMPC)	0.154	0.0952	60.5	53.9	56.9	37.0
ITEF TEQ (ND=DL; EMPC=EMPC)	0.309	0.190	60.5	53.9	56.9	37.0
Checkcode	3745 ✓	0433 ✓	4320 ✓	4282 ✓	0311 ✓	2589 ✓

() = DL
[] = EMPC

24 March 05

Reviewer
Date

[Signature]
24 Mar

P1158 - WHO 2005 TEF-TEQ

Project 080166-01

Sample Summary Part 1 (dry weight)



Method 1613

Analyte	0_6630_MB001	0_6682_MB001	PO-BA-24-SS-A 090226	PO-BA-25-SS-A 090226	PO-BA-26-SS-A 090226	PO-BA-27B-SS- A-090226
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
2,3,7,8-TCDD	(0.0728)	(0.0456)	[0.836]	0.998	0.979	[0.739]
1,2,3,7,8-PeCDD	(0.209)	(0.0664)	5.36	4.88	5.43	4.16
1,2,3,4,7,8-HxCDD	(0.102)	(0.102)	10.5	9.72	9.67	7.97
1,2,3,6,7,8-HxCDD	(0.114)	(0.124)	52.6	55	56.8	43
1,2,3,7,8,9-HxCDD	(0.116)	(0.122)	21.8	21.7	20.7	16.3
1,2,3,4,6,7,8-HpCDD	(0.0604)	(0.0866)	1770	1420	1640	922
OCDD	(0.176)	(0.0458)	18000	13600	13800	7340
2,3,7,8-TCDF	(0.059)	(0.0439)	3.76	3.86	3.71	3.31
1,2,3,7,8-PeCDF	(0.149)	(0.094)	3.93	4.22	4.25	3.55
2,3,4,7,8-PeCDF	(0.133)	(0.0892)	7.95	8.94	9.24	7.3
1,2,3,4,7,8-HxCDF	(0.0387)	(0.0446)	18.9	21.1	23.3	16.1
1,2,3,6,7,8-HxCDF	(0.0303)	(0.0407)	8.5	9.06	8.94	7.12
2,3,4,6,7,8-HxCDF	(0.0352)	(0.0446)	12.6	13.6	13.7	10.5
1,2,3,7,8,9-HxCDF	(0.0552)	(0.0617)	3.7	4.35	4.58	3.91
1,2,3,4,6,7,8-HpCDF	(0.051)	(0.117)	298	335	315	247
1,2,3,4,7,8,9-HpCDF	(0.0746)	(0.169)	12.5	12.7	12.8	8.66
OCDF	(0.262)	(0.256)	673	686	690	433
WHO 2005 TEF TEQ (ND=0; EMPC=0)	0.00	0.00	47.5	44.5	47.5	31.4
WHO 2005 TEF TEQ (ND=0; EMPC=EMPC)	0.00	0.00	48.4	44.5	47.5	32.1
WHO 2005 TEF TEQ (ND=DL/2; EMPC=0)	0.192	0.102	47.6	44.5	47.5	31.4
WHO 2005 TEF TEQ (ND=DL/2; EMPC=EMPC)	0.192	0.102	48.4	44.5	47.5	32.1
WHO 2005 TEF TEQ (ND=DL; EMPC=EMPC)	0.383	0.204	48.4	44.5	47.5	32.1
Checkcode	3745 ✓	0433 ✓	4320 ✓	4282 ✓	0311 ✓	2589 ✓

() = DL
[] = EMPC

24 March 05

Reviewer: *[Signature]*
Date: *[Signature]*

P1158 - Totals

Project ID: 080166-01

Sample Summary Part 2 (dry weight)



Method 1613

Analyte	0_6630_MB001	0_6682_MB001	PO-BA-24-SS-A 090226	PO-BA-25-SS-A 090226	PO-BA-26-SS-A 090226	PO-BA-27B-SS- A-090226
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
Totals						
TCDDs	0	0.0973	36.3	32.1	31.2	30.7
PeCDDs	0	0	80	68.9	70	59.4
HxCDDs	0	0	737	597	680	354
HpCDDs	0.0981	0	8060	5190	6530	2350
OCDD	0	0	18000	13600	13800	7340
TCDFs	0	0	57.3	55	50.8	43.6
PeCDFs	0	0	91.7	97.4	103	85.7
HxCDFs	0	0	367	410	410	319
HpCDFs	0	0	871	950	908	673
OCDF	0	0	673	686	690	433
Total PCDD/Fs (ND=0; EMPC=0)	0.0981	0.0973	29,000	21,700	23,300	11,700
Total PCDD/Fs (ND=0; EMPC=EMPC)	0.0981	0.0973	29,000	21,700	23,300	11,700
Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)	1.84	1.65	29,000	21,700	23,300	11,700
Total 2378s (ND=0; EMPC=0)	0.00	0.00	20,900	16,200	16,600	9,070
Total 2378s (ND=0.5; EMPC=0)	0.869	0.777	20,900	16,200	16,600	9,070
Total 2378s (ND=1; EMPC=0)	1.74	1.55	20,900	16,200	16,600	9,070
Total 2378s (ND=0; EMPC=1)	0.00	0.00	20,900	16,200	16,600	9,070
Total 2378s (ND=0.5; EMPC=1)	0.869	0.777	20,900	16,200	16,600	9,070
Total 2378s (ND=1; EMPC=1)	1.74	1.55	20,900	16,200	16,600	9,070
Checkcode	3745 ✓	0433 ✓	4320 ✓	4282 ✓	0311 ✓	2589 ✓

Total 2378s = Sum of 17 2378-substituted PCDD/PCDF congeners (SARA 313)

() = DL
[] = EMPC

*Jan
24 March 05*

Reviewer
Date

[Signature]
2/2/05

P115? Others
Project 080166-01

Sample Summary
Part 3 (dry weight)



Method 1613

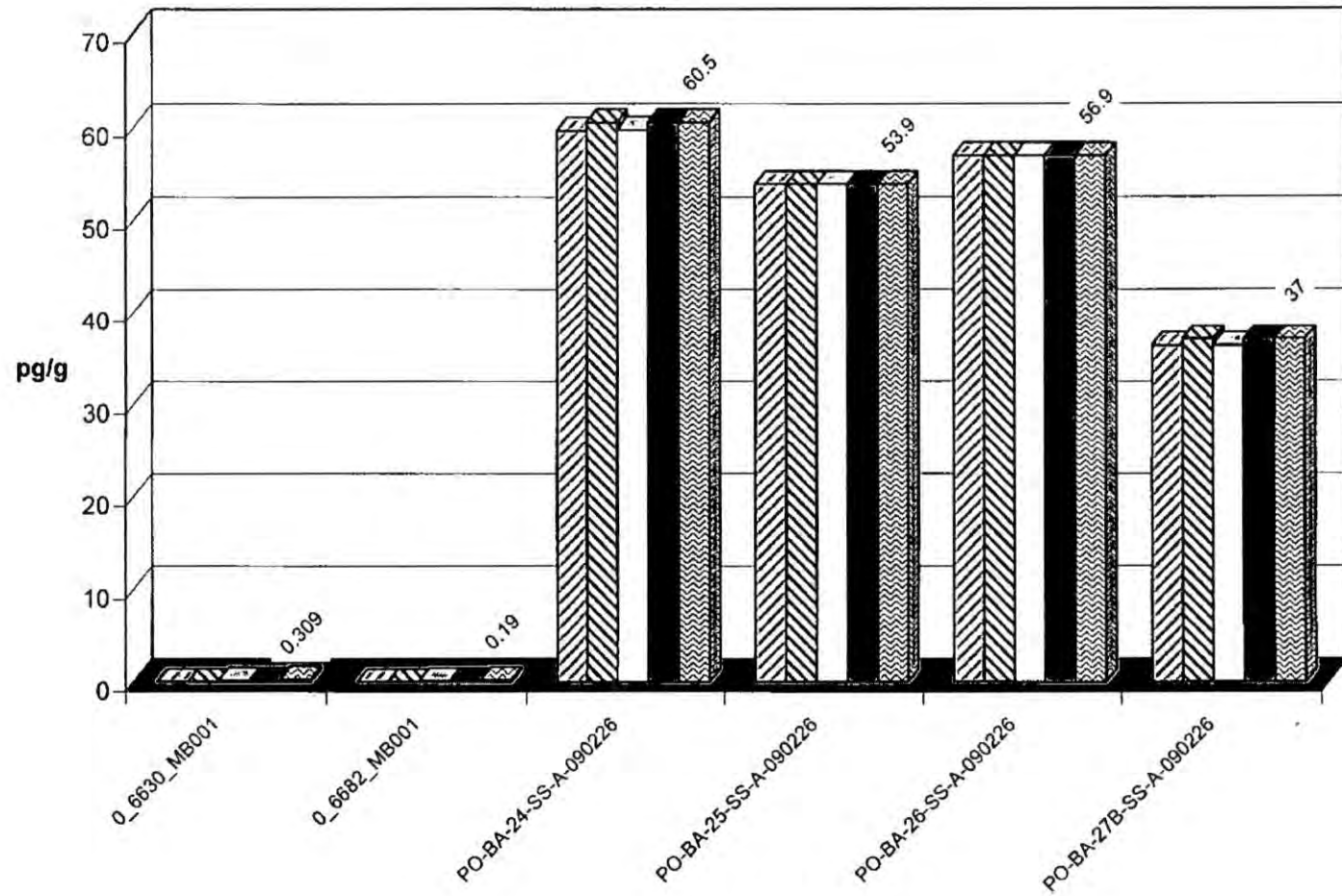
Analyte	0_6630_MB001	0_6682_MB001	PO-BA-24-SS-A 090226	PO-BA-25-SS-A 090226	PO-BA-26-SS-A 090226	PO-BA-27B-SS- A-090226
	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
Other PCDD/Fs (ND=0, EMPC=0)						
Other TCDD	0	0.0973	36.3	31.1	30.2	30.7
Other PeCDD	0	0	74.7	64	64.6	55.2
Other HxCDD	0	0	652	511	593	287
Other HpCDD	0.0981	0	6280	3770	4880	1430
Other TCDF	0	0	53.6	51.1	47.1	40.3
Other PeCDF	0	0	79.8	84.2	89.1	74.8
Other HxCDF	0	0	323	362	360	282
Other HpCDF	0	0	561	602	580	417
Other PCDD/Fs (ND=0, EMPC=EMPC)						
Other TCDD	0	0.0973	40.2	32.3	30.9	32.1
Other PeCDD	0	0	75.9	65.1	67.4	56.2
Other HxCDD	0	0	652	511	593	287
Other HpCDD	0.0981	0	6280	3770	4880	1430
Other TCDF	0	0	55	52.4	47.1	42.5
Other PeCDF	0	0	79.8	84.5	89.1	75
Other HxCDF	0	0	323	362	360	282
Other HpCDF	0	0	561	602	587	417
Checkcode	3745 ✓	0433 ✓	4320 ✓	4282 ✓	0311 ✓	2589 ✓

() = DL
 [] = EMPC

24 March 09
 Reviewer *[Signature]*
 Date *[Signature]*

ITEF-TEQ
Project ID: 080166-01
P1158

- ▨ ND=0; EMPC=0
- ▩ ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▨ ND=DL; EMPC=EMPC

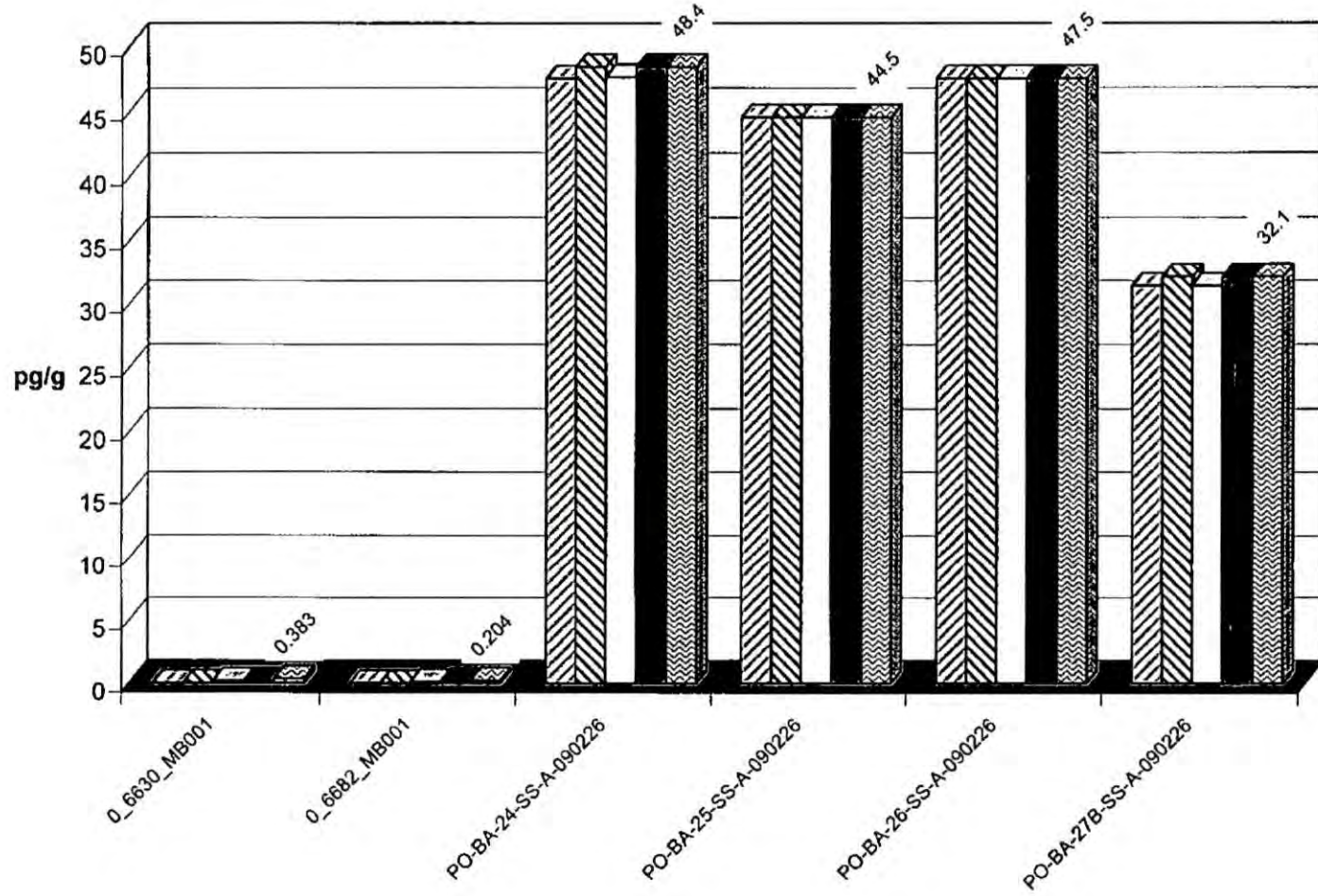


WHO 2005 TEF-TEQ

Project ID: 080166-01

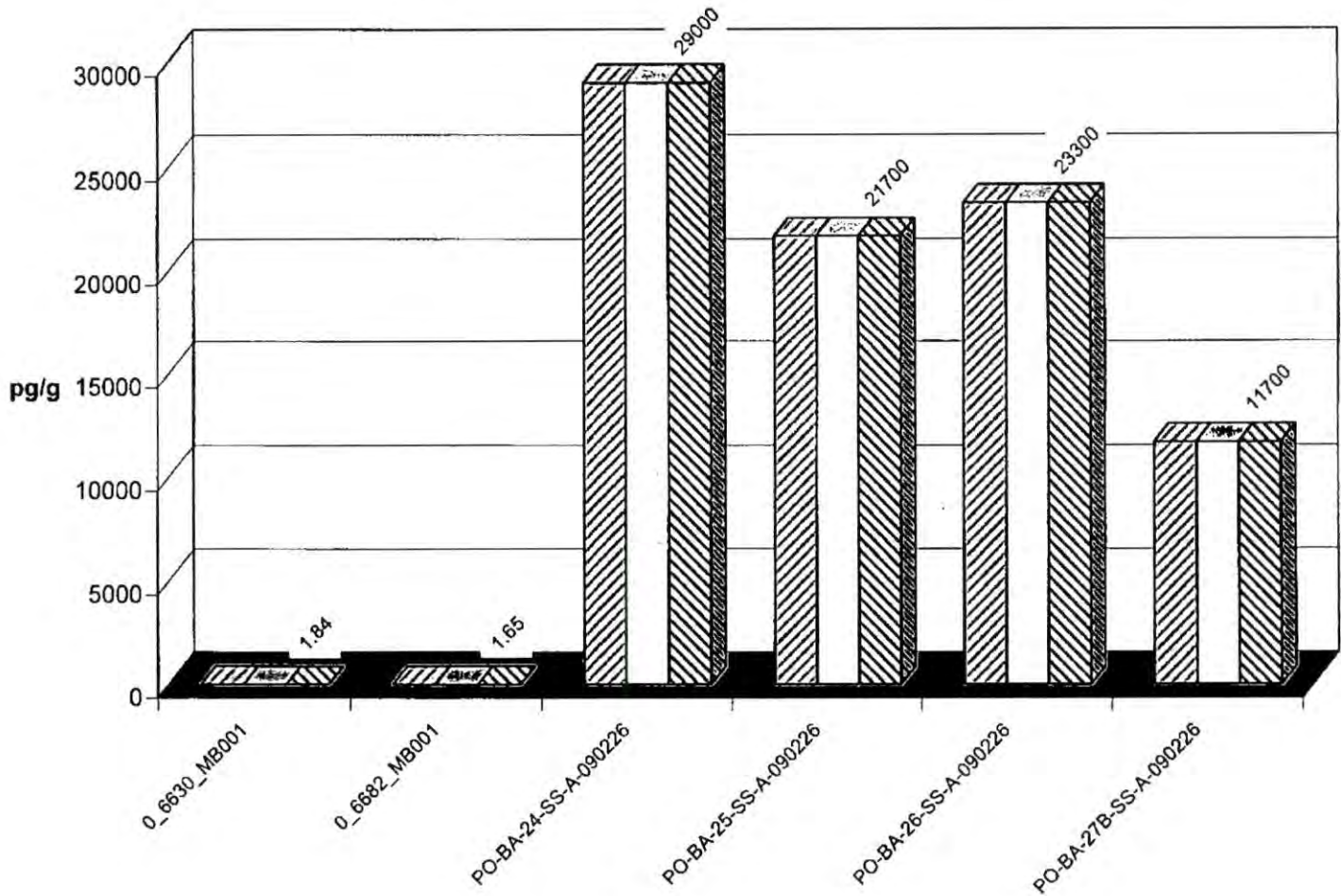
P1158

- ND=0; EMPC=0
- ▨ ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▨ ND=DL; EMPC=EMPC



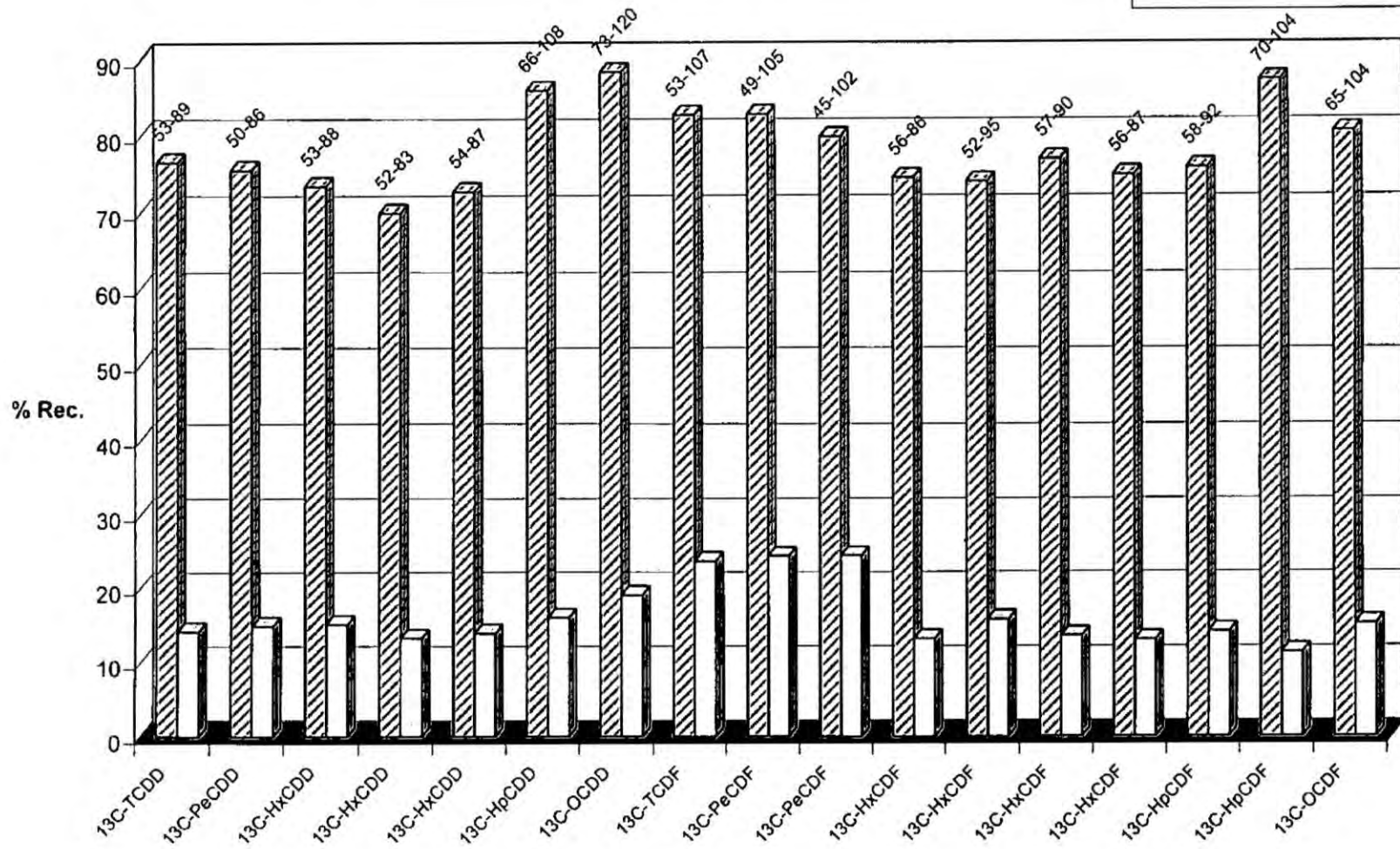
Totals
Project ID: 080166-01
P1158

- ▨ Total PCDD/Fs (ND=0; EMPC=0)
- Total PCDD/Fs (ND=0; EMPC=EMPC)
- ▩ Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)



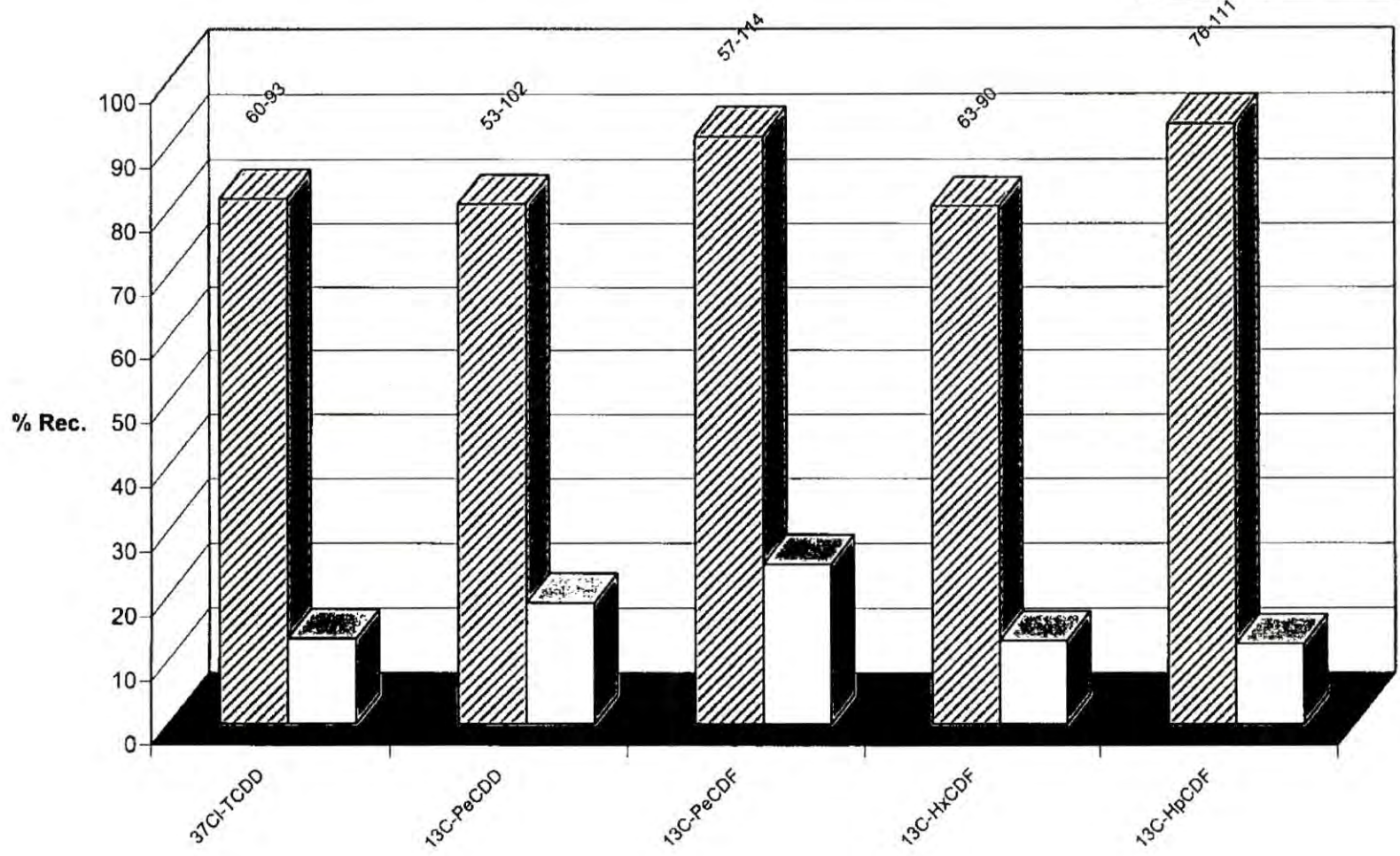
Mean Recoveries of Extraction Standards (N=6)
Project ID: 080166-01
P1158

▨ Mean □ Std. Dev.




Mean Recoveries of Clean-Up Standards (N=6)
Project ID: 080166-01
P1158

▨ Mean □ Std. Dev.




Sample ID: 0_6630_MB001

Method 16

Client Data		Sample Data		Laboratory Data				
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1158	Date Received:	n/a	
Project ID:	080166-01	Weight/Volume:	10.00 g ✓	Sample ID:	MB1_6630_DF_SDS	Date Extracted:	04 Mar 09	
Date Collected:	n/a	% Solids:	n/a	QC Batch No.:	6630	Date Analyzed:	11 Mar 09	
		Split:	-	Dilution:	-	Time Analyzed:	18:59:46	
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers	
2,3,7,8-TCDD	ND	0.0728			13C-2,3,7,8-TCDD	80.4	<i>ok 24 March 09</i>	
1,2,3,7,8-PeCDD	ND	0.209			13C-1,2,3,7,8-PeCDD	80.7		
1,2,3,4,7,8-HxCDD	ND	0.102			13C-1,2,3,4,7,8-HxCDD	77.6		
1,2,3,6,7,8-HxCDD	ND	0.114			13C-1,2,3,6,7,8-HxCDD	75		
1,2,3,7,8,9-HxCDD	ND	0.116			13C-1,2,3,7,8,9-HxCDD	77.4		
1,2,3,4,6,7,8-HpCDD	ND	0.0604			13C-1,2,3,4,6,7,8-HpCDD	79.7		
OCDD	ND	0.176			13C-OCDD	73		
2,3,7,8-TCDF	ND	0.059			13C-2,3,7,8-TCDF	75.5		
1,2,3,7,8-PeCDF	ND	0.149			13C-1,2,3,7,8-PeCDF	84.5		
2,3,4,7,8-PeCDF	ND	0.133			13C-2,3,4,7,8-PeCDF	82.3		
1,2,3,4,7,8-HxCDF	ND	0.0387			13C-1,2,3,4,7,8-HxCDF	81.8		
1,2,3,6,7,8-HxCDF	ND	0.0303			13C-1,2,3,6,7,8-HxCDF	94.6		
2,3,4,6,7,8-HxCDF	ND	0.0352			13C-2,3,4,6,7,8-HxCDF	90.3		
1,2,3,7,8,9-HxCDF	ND	0.0552			13C-1,2,3,7,8,9-HxCDF	80.7		
1,2,3,4,6,7,8-HpCDF	ND	0.051			13C-1,2,3,4,6,7,8-HpCDF	78.9		
1,2,3,4,7,8,9-HpCDF	ND	0.0746			13C-1,2,3,4,7,8,9-HpCDF	85.8		
OCDF	ND	0.262			13C-OCDF	75.5		
Totals						CS Recoveries		
TCDDs	ND	0.0728			37Cl-2,3,7,8-TCDD	88.3		AS Recoveries
PeCDDs	ND	0.209			13C-1,2,3,4,7-PeCDD	90.4		
HxCDDs	ND	0.111			13C-1,2,3,4,6-PeCDF	87.1		
HpCDDs	0.0981				13C-1,2,3,4,6,9-HxCDF	89.5		
					13C-1,2,3,4,6,8,9-HpCDF	88		
TCDFs	ND	0.059						
PeCDFs	ND	0.141						
HxCDFs	ND	0.0385			13C-1,3,6,8-TCDD	73.2		
HpCDFs	ND	0.0617			13C-1,3,6,8-TCDF	74.4		
Total PCDD/Fs	0.0981		0.0981					
 ANALYTICAL PERSPECTIVES				2714 Exchange Drive Wilmington, NC 28405 USA				
ITEF TEQs TEQ: ND=0 TEQ: ND=DL/2 TEQ: ND=DL				Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com				
Checkcode: 3745				AP 2008 Rev. H Reviewer: _____ Date: <i>24 March 09</i>				

Sample ID: 0_6682_MB001

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1158	Date Received:	n/a
Project ID:	080166-01	Weight/Volume:	10.00 g	Sample ID:	MB1_6682_DF_SDS	Date Extracted:	13 Mar 09
Date Collected:	n/a	% Solids:	n/a	QC Batch No.:	6682	Date Analyzed:	23 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	23:48:28
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.0456			13C-2,3,7,8-TCDD	81	
1,2,3,7,8-PeCDD	ND	0.0664			13C-1,2,3,7,8-PeCDD	84.2	
1,2,3,4,7,8-HxCDD	ND	0.102			13C-1,2,3,4,7,8-HxCDD	83.2	
1,2,3,6,7,8-HxCDD	ND	0.124			13C-1,2,3,6,7,8-HxCDD	76.7	
1,2,3,7,8,9-HxCDD	ND	0.122			13C-1,2,3,7,8,9-HxCDD	78.6	
1,2,3,4,6,7,8-HpCDD	ND	0.0866			13C-1,2,3,4,6,7,8-HpCDD	89.2	
OCDD	ND	0.0458			13C-OCDD	82	
2,3,7,8-TCDF	ND	0.0439			13C-2,3,7,8-TCDF	96.3	
1,2,3,7,8-PeCDF	ND	0.094			13C-1,2,3,7,8-PeCDF	99.9	
2,3,4,7,8-PeCDF	ND	0.0892			13C-2,3,4,7,8-PeCDF	95.3	
1,2,3,4,7,8-HxCDF	ND	0.0446			13C-1,2,3,4,7,8-HxCDF	80.8	
1,2,3,6,7,8-HxCDF	ND	0.0407			13C-1,2,3,6,7,8-HxCDF	81.1	
2,3,4,6,7,8-HxCDF	ND	0.0446			13C-2,3,4,6,7,8-HxCDF	81.5	
1,2,3,7,8,9-HxCDF	ND	0.0617			13C-1,2,3,7,8,9-HxCDF	81.4	
1,2,3,4,6,7,8-HpCDF	ND	0.117			13C-1,2,3,4,6,7,8-HpCDF	82.2	
1,2,3,4,7,8,9-HpCDF	ND	0.169			13C-1,2,3,4,7,8,9-HpCDF	89.4	
OCDF	ND	0.256			13C-OCDF	83	
Totals						CS Recoveries	
TCDDs	0.0973				37Cl-2,3,7,8-TCDD	86.3	
PeCDDs	ND	0.0664			13C-1,2,3,4,7-PeCDD	102	
HxCDDs	ND	0.116			13C-1,2,3,4,6-PeCDF	111	
HpCDDs	ND	0.0866			13C-1,2,3,4,6,9-HxCDF	87.8	
					13C-1,2,3,4,6,8,9-HpCDF	95.9	
TCDFs	ND	0.0439					
PeCDFs	ND	0.0915					
HxCDFs	ND	0.0472			13C-1,3,6,8-TCDD	78.9	
HpCDFs	ND	0.141			13C-1,3,6,8-TCDF	99.3	
Total PCDD/Fs						AS Recoveries	
	0.0973		0.0973				
ITEF TEQs				 2714 Exchange Drive Wilmington, NC 28405 USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			
TEQ: ND=0	0		0				
TEQ: ND=DL/2	0.0952		0.0952				
TEQ: ND=DL	0.19		0.19				

*ok
24 March 09*

24 March 09

Reviewer: _____
Date: *26 March 09*

Checkcode: 0433

AP 2008 Rev. 1

Sample ID: PO-BA-24-SS-A-090226

Method 16

Client Data		Sample Data		Laboratory Data				
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1158	Date Received:	27 Feb 09	
Project ID:	080166-01	Weight/Volume:	10.08 g ✓	Sample ID:	P1158_6630_001	Date Extracted:	04 Mar 09	
Date Collected:	26 Feb 09	% Solids:	24.6 %	QC Batch No.:	6630	Date Analyzed:	11 Mar 09	
		Split:	-	Dilution:	-	Time Analyzed:	19:50:04	
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers	
2,3,7,8-TCDD	EMPC	[Ra=0.633]	0.836		13C-2,3,7,8-TCDD	53.2	<i>ok 24 March 09</i>	
1,2,3,7,8-PeCDD	5.36				13C-1,2,3,7,8-PeCDD	50.1		
1,2,3,4,7,8-HxCDD	10.5				13C-1,2,3,4,7,8-HxCDD	53.1		
1,2,3,6,7,8-HxCDD	52.6				13C-1,2,3,6,7,8-HxCDD	51.9		
1,2,3,7,8,9-HxCDD	21.8				13C-1,2,3,7,8,9-HxCDD	53.7		
1,2,3,4,6,7,8-HpCDD	1,770				13C-1,2,3,4,6,7,8-HpCDD	65.5		
OCDD	18,000				13C-OCDD	77.2		
2,3,7,8-TCDF	3.76				13C-2,3,7,8-TCDF	52.8		
1,2,3,7,8-PeCDF	3.93				13C-1,2,3,7,8-PeCDF	48.6		
2,3,4,7,8-PeCDF	7.95				13C-2,3,4,7,8-PeCDF	45.3		
1,2,3,4,7,8-HxCDF	18.9				13C-1,2,3,4,7,8-HxCDF	55.7		
1,2,3,6,7,8-HxCDF	8.5				13C-1,2,3,6,7,8-HxCDF	52.2		
2,3,4,6,7,8-HxCDF	12.6				13C-2,3,4,6,7,8-HxCDF	57.3		
1,2,3,7,8,9-HxCDF	3.7				13C-1,2,3,7,8,9-HxCDF	56.3		
1,2,3,4,6,7,8-HpCDF	298				13C-1,2,3,4,6,7,8-HpCDF	57.7		
1,2,3,4,7,8,9-HpCDF	12.5				13C-1,2,3,4,7,8,9-HpCDF	70.1		
OCDF	673				13C-OCDF	64.8		
Totals						CS Recoveries		
TCDDs	36.3		41		37Cl-2,3,7,8-TCDD	59.5		
PeCDDs	80		81.2		13C-1,2,3,4,7-PeCDD	53.3		
HxCDDs	737				13C-1,2,3,4,6-PeCDF	56.8		
HpCDDs	8,060				13C-1,2,3,4,6,9-HxCDF	62.6		
					13C-1,2,3,4,6,8,9-HpCDF	76.5		
TCDFs	57.3		58.8					
PeCDFs	91.7							
HxCDFs	367							
HpCDFs	871							
Total PCDD/Fs	29,000		29,000					
						AS Recoveries		
TEQs					13C-1,3,6,8-TCDD	52.4		
TEQ: ND=0	59.6		60.5		13C-1,3,6,8-TCDF	56.6		
TEQ: ND=DL/2	59.7		60.5					
TEQ: ND=DL	59.7		60.5					



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Checkcode: 4320

24 March 09
 Reviewer: *[Signature]*
 Date: *[Signature]*

AP 2008 Rev. H

Sample ID: PO-BA-25-SS-A-090226


Method 1613

Client Data		Sample Data		Laboratory Data		Date Received: 27 Feb 09	
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1158	Date Extracted:	04 Mar 09
Project ID:	080166-01	Weight/Volume:	10.93 g ✓	Sample ID:	P1158_6630_002	Date Analyzed:	11 Mar 09
Date Collected:	26 Feb 09	% Solids:	28.8 %	QC Batch No.:	6630	Time Analyzed:	20:40:22
		Split:	-	Dilution:	-		

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.998	[Ra=0.85]			13C-2,3,7,8-TCDD	66.3	
1,2,3,7,8-PeCDD	4.88				13C-1,2,3,7,8-PeCDD	64.9	
1,2,3,4,7,8-HxCDD	9.72				13C-1,2,3,4,7,8-HxCDD	55.8	
1,2,3,6,7,8-HxCDD	55				13C-1,2,3,6,7,8-HxCDD	54.6	
1,2,3,7,8,9-HxCDD	21.7				13C-1,2,3,7,8,9-HxCDD	56.9	
1,2,3,4,6,7,8-HpCDD	1,420				13C-1,2,3,4,6,7,8-HpCDD	73.8	
OCDD	13,600			*	13C-OCDD	74.5	
2,3,7,8-TCDF	3.86				13C-2,3,7,8-TCDF	59.2	
1,2,3,7,8-PeCDF	4.22				13C-1,2,3,7,8-PeCDF	57.5	
2,3,4,7,8-PeCDF	8.94				13C-2,3,4,7,8-PeCDF	54.5	
1,2,3,4,7,8-HxCDF	21.1				13C-1,2,3,4,7,8-HxCDF	59.8	
1,2,3,6,7,8-HxCDF	9.06				13C-1,2,3,6,7,8-HxCDF	58.7	
2,3,4,6,7,8-HxCDF	13.6				13C-2,3,4,6,7,8-HxCDF	62.9	
1,2,3,7,8,9-HxCDF	4.35				13C-1,2,3,7,8,9-HxCDF	60.4	
1,2,3,4,6,7,8-HpCDF	335				13C-1,2,3,4,6,7,8-HpCDF	59.1	
1,2,3,4,7,8,9-HpCDF	12.7				13C-1,2,3,4,7,8,9-HpCDF	81.5	
OCDF	686				13C-OCDF	65.4	

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24 March 09*

Totals						CS Recoveries	
TCDDs	32.1		33.3		37Cl-2,3,7,8-TCDD	72.2	
PeCDDs	68.9		70		13C-1,2,3,4,7-PeCDD	62.4	
HxCDDs	597				13C-1,2,3,4,6-PeCDF	68.1	
HpCDDs	5,190				13C-1,2,3,4,6,9-HxCDF	65.3	
					13C-1,2,3,4,6,8,9-HpCDF	86.1	
TCDFs	55		56.3				
PeCDFs	97.4		97.6				
HxCDFs	410				13C-1,3,6,8-TCDD	58.7	
HpCDFs	950				13C-1,3,6,8-TCDF	60.3	

Total PCDD/Fs	21,700		21,700	 2714 Exchange Drive Wilmington, NC 28405 USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			
ITEF TEQs							
TEQ: ND=0	53.9		53.9				
TEQ: ND=DL/2	53.9		53.9				
TEQ: ND=DL	53.9		53.9				

Checkcode: 4282

*ok
24 March 09*

Reviewer: *[Signature]*
 Date: *[Signature]*

Sample ID: PO-BA-26-SS-A-090226

Method 16

Client Data		Sample Data		Laboratory Data				
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1158	Date Received:	27 Feb 09	
Project ID:	080166-01	Weight/Volume:	10.37 g	Sample ID:	P1158_6682_003	Date Extracted:	20 Mar 09	
Date Collected:	26 Feb 09	% Solids:	29.0 %	QC Batch No.:	6682	Date Analyzed:	24 Mar 09	
		Split:	-	Dilution:	-	Time Analyzed:	0:38:35	
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers	
2,3,7,8-TCDD	0.979	[Ra=0.808]			13C-2,3,7,8-TCDD	89.3	<i>ok 24 March 09</i>	
1,2,3,7,8-PeCDD	5.43				13C-1,2,3,7,8-PeCDD	86.5		
1,2,3,4,7,8-HxCDD	9.67				13C-1,2,3,4,7,8-HxCDD	82.4		
1,2,3,6,7,8-HxCDD	56.8				13C-1,2,3,6,7,8-HxCDD	77.5		
1,2,3,7,8,9-HxCDD	20.7				13C-1,2,3,7,8,9-HxCDD	82.2		
1,2,3,4,6,7,8-HpCDD	1,640				13C-1,2,3,4,6,7,8-HpCDD	99		
OCDD	13,800				13C-OCDD	103		
2,3,7,8-TCDF	3.71				13C-2,3,7,8-TCDF	107		
1,2,3,7,8-PeCDF	4.25				13C-1,2,3,7,8-PeCDF	105		
2,3,4,7,8-PeCDF	9.24				13C-2,3,4,7,8-PeCDF	102		
1,2,3,4,7,8-HxCDF	23.3				13C-1,2,3,4,7,8-HxCDF	81.8		
1,2,3,6,7,8-HxCDF	8.94				13C-1,2,3,6,7,8-HxCDF	76.6		
2,3,4,6,7,8-HxCDF	13.7				13C-2,3,4,6,7,8-HxCDF	81.1		
1,2,3,7,8,9-HxCDF	4.58				13C-1,2,3,7,8,9-HxCDF	82.2		
1,2,3,4,6,7,8-HpCDF	315				13C-1,2,3,4,6,7,8-HpCDF	84.2		
1,2,3,4,7,8,9-HpCDF	12.8				13C-1,2,3,4,7,8,9-HpCDF	92.2		
OCDF	690				13C-OCDF	89.5		
Totals						CS Recoveries		
TCDDs	31.2		31.8		37Cl-2,3,7,8-TCDD	93.1		
PeCDDs	70		72.9		13C-1,2,3,4,7-PeCDD	89.5		
HxCDDs	680				13C-1,2,3,4,6-PeCDF	114		
HpCDDs	6,530				13C-1,2,3,4,6,9-HxCDF	88.5		
					13C-1,2,3,4,6,8,9-HpCDF	103		
TCDFs	50.8							
PeCDFs	103							
HxCDFs	410		411		13C-1,3,6,8-TCDD	75.9		
HpCDFs	908		915		13C-1,3,6,8-TCDF	97.7		
Total PCDD/Fs	23,300		23,300					
ITEF TEQs						AS Recoveries		
TEQ: ND=0	56.9		56.9					
TEQ: ND=DL/2	56.9		56.9					
TEQ: ND=DL	56.9		56.9					



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24 March 09
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 Date: *24 Mar 09*

AP 2008 Rev. H

Sample ID: PO-BA-27B-SS-A-090226

Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1158	Date Received:	27 Feb 09
Project ID:	080166-01	Weight/Volume:	10.26 g ✓	Sample ID:	P1158_6682_004	Date Extracted:	20 Mar 09
Date Collected:	26 Feb 09	% Solids:	27.6 %	QC Batch No.:	6682	Date Analyzed:	24 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	1:28:40

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	EMPC	[Ra=0.904]	0.739		13C-2,3,7,8-TCDD	88.7	
1,2,3,7,8-PeCDD	4.16				13C-1,2,3,7,8-PeCDD	86.3	
1,2,3,4,7,8-HxCDD	7.97				13C-1,2,3,4,7,8-HxCDD	87.9	
1,2,3,6,7,8-HxCDD	43				13C-1,2,3,6,7,8-HxCDD	83.3	
1,2,3,7,8,9-HxCDD	16.3				13C-1,2,3,7,8,9-HxCDD	86.9	
1,2,3,4,6,7,8-HpCDD	922				13C-1,2,3,4,6,7,8-HpCDD	108	
OCDD	7,340				13C-OCDD	120	
2,3,7,8-TCDF	3.31				13C-2,3,7,8-TCDF	105	
1,2,3,7,8-PeCDF	3.55				13C-1,2,3,7,8-PeCDF	101	
2,3,4,7,8-PeCDF	7.3				13C-2,3,4,7,8-PeCDF	99.1	
1,2,3,4,7,8-HxCDF	16.1				13C-1,2,3,4,7,8-HxCDF	86.4	
1,2,3,6,7,8-HxCDF	7.12				13C-1,2,3,6,7,8-HxCDF	80.2	
2,3,4,6,7,8-HxCDF	10.5				13C-2,3,4,6,7,8-HxCDF	87.6	
1,2,3,7,8,9-HxCDF	3.91				13C-1,2,3,7,8,9-HxCDF	87.3	
1,2,3,4,6,7,8-HpCDF	247				13C-1,2,3,4,6,7,8-HpCDF	91.9	
1,2,3,4,7,8,9-HpCDF	8.66				13C-1,2,3,4,7,8,9-HpCDF	104	
OCDF	433				13C-OCDF	104	
Totals						CS Recoveries	
TCDDs	30.7		32.8		37Cl-2,3,7,8-TCDD	91.7	
PeCDDs	59.4		60.3		13C-1,2,3,4,7-PeCDD	88.7	
HxCDDs	354				13C-1,2,3,4,6-PeCDF	112	
HpCDDs	2,350				13C-1,2,3,4,6,9-HxCDF	90.2	
					13C-1,2,3,4,6,8,9-HpCDF	111	
TCDFs	43.6		45.8			AS Recoveries	
PeCDFs	85.7		85.9				
HxCDFs	319				13C-1,3,6,8-TCDD	86.8	
HpCDFs	673				13C-1,3,6,8-TCDF	101	
Total PCDD/Fs	11,700		11,700				
ITEF TEQs							
TEQ: ND=0	36.3		37				
TEQ: ND=DL/2	36.3		37				
TEQ: ND=DL	36.3		37				

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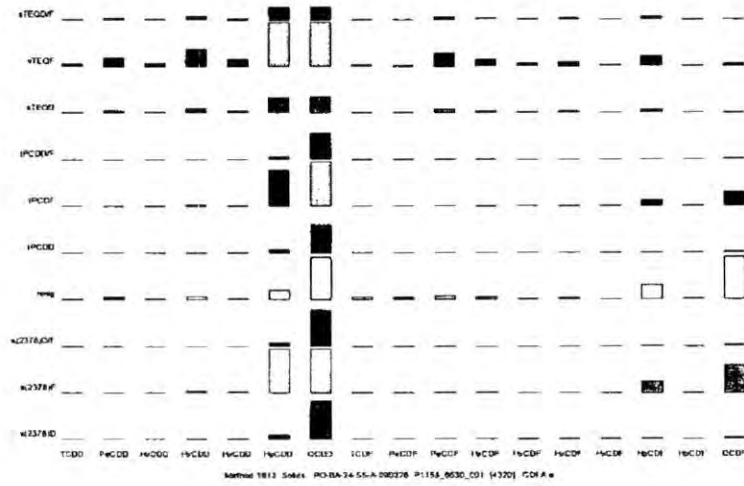
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 www.ultratrace.com

Checkcode: 2589

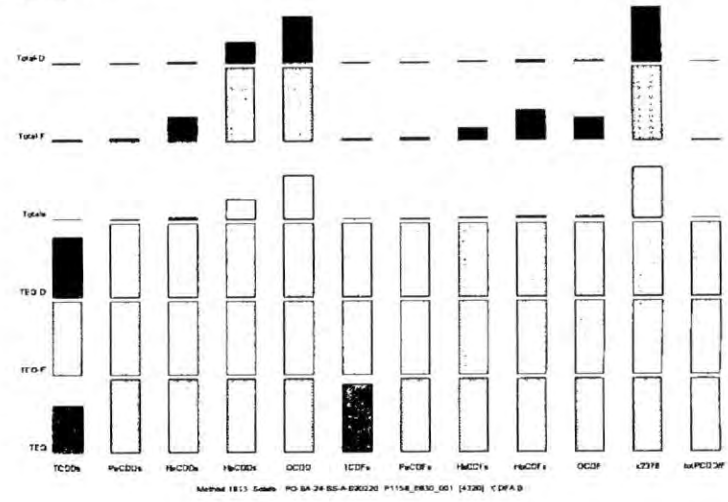
24 March 09
 Reviewer: *[Signature]*
 Date: *[Signature]*

AP 2008 Rev. 1.1

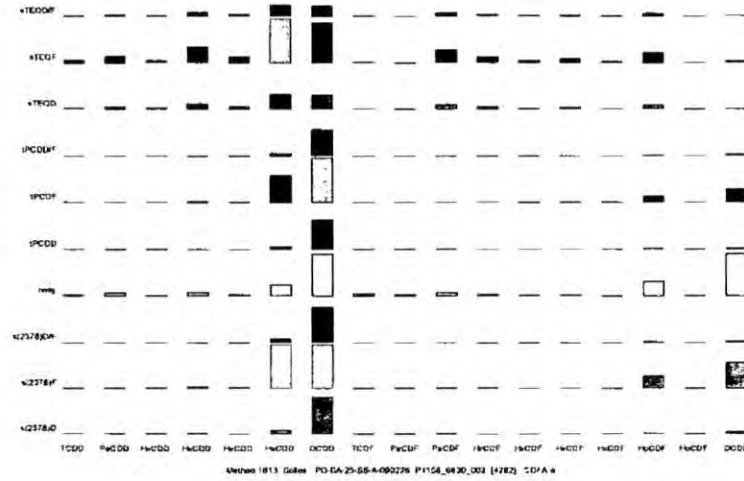
ANALYTICAL PERSPECTIVES



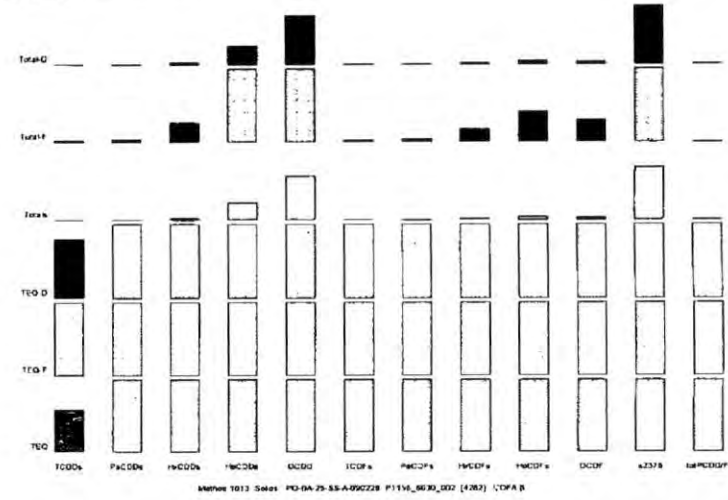
ANALYTICAL PERSPECTIVE



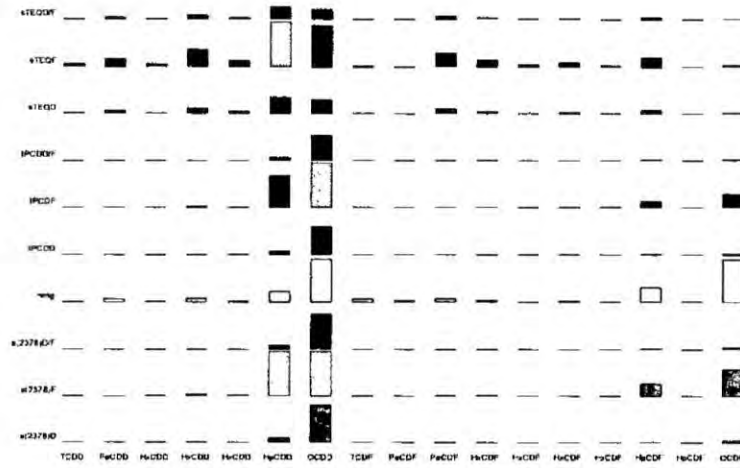
ANALYTICAL PERSPECTIVES



ANALYTICAL PERSPECTIVES

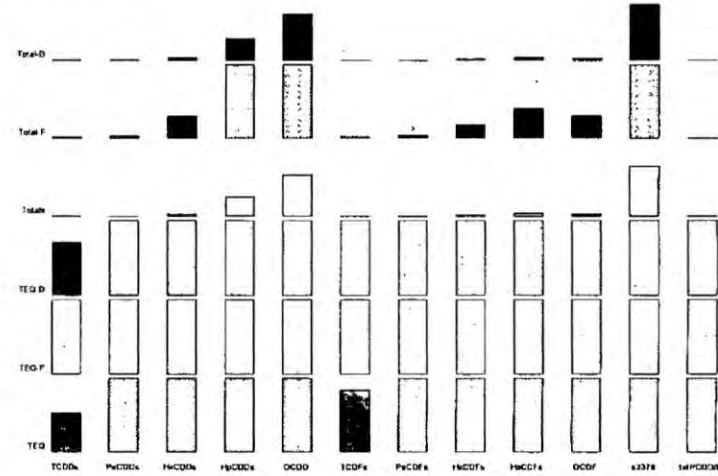


ANALYTICAL PERSPECTIVES



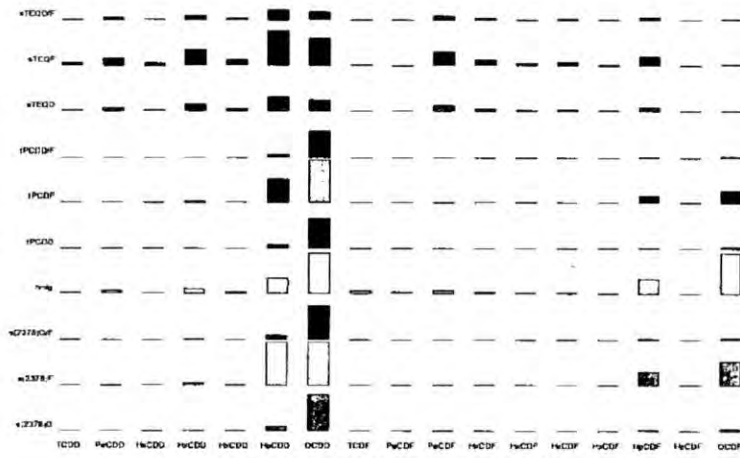
Method 1813 Suite PO-BA-26-55-A-090226 P1158_882_003 (311) CDA 4

ANALYTICAL PERSPECTIVES



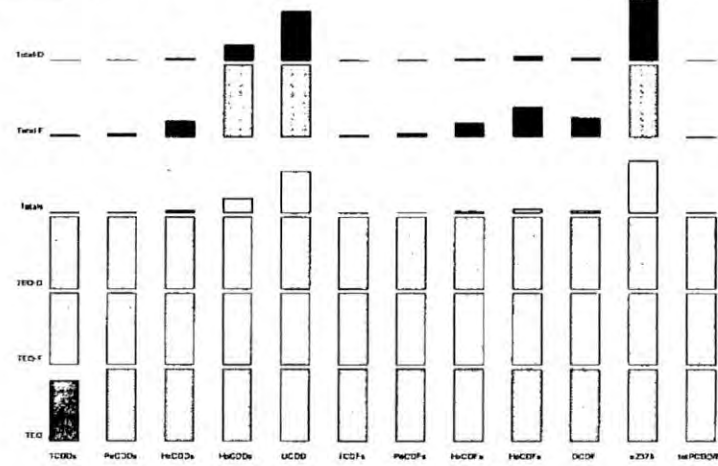
Method 1813 Suite PO-BA-26-55-A-090226 P1158_882_003 (311) CDA 9

ANALYTICAL PERSPECTIVES



Method 1813 Suite PO-BA-270-55-A-090226 P1158_882_004 (2549) CDA 4

ANALYTICAL PERSPECTIVES

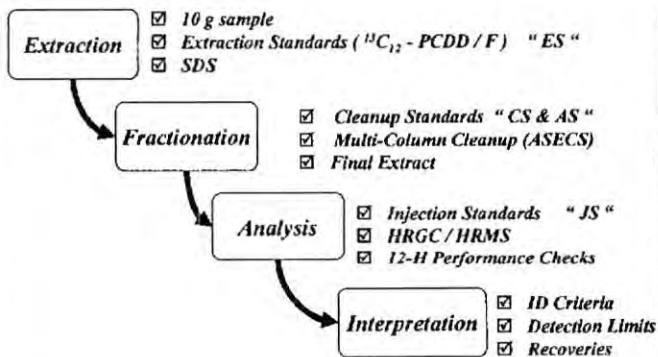


Method 1813 Suite PO-BA-270-55-A-090226 P1158_882_004 (2549) CDA 9



SAMPLE PATH

SAMPLE PROCESSING



DIF: AFB

SPIKE PROFILE

AX (8290B): 0.2 NG (200 µL; 0.001 NG/µL)
ES (8290B): 2 NG (200 µL; 0.01 NG/µL)
CS (8290B): 0.8 NG (20 µL; 0.04 NG/µL)
JS (8290B): 2 NG (200 µL; 0.01 NG/µL)

SOPS

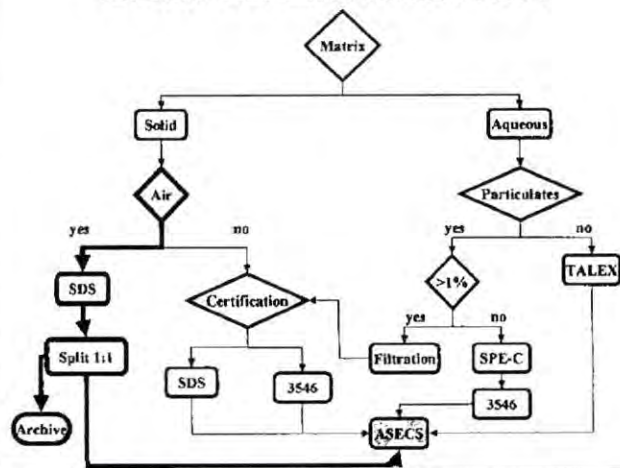
EXTRACTION: AP-CM-5
FRACTIONATION: AP-SP-CU
ANALYSIS: AP-SP-A
CONCENTRATION: AP-SP-N
FORTIFICATION: AP-SP-F
DATA VALIDATION: AP-SP-R

QC PROFILE

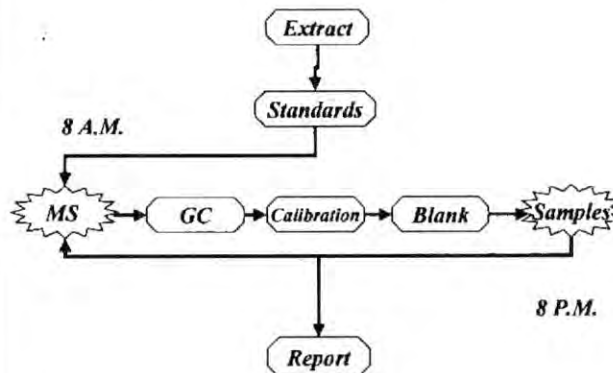
LMB: ALWAYS REQUIRED
OPR: 1613 ONLY; NO BCS₃
BATCH CS₃: 8290B ONLY

2,3,7,8-TCDD	YES	<input type="checkbox"/> NO
2,3,7,8-TCDF	YES	<input type="checkbox"/> NO
PCDD/Fs	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

SAMPLE EXTRACTION



SAMPLE ANALYSIS



SPECIAL REQUIREMENTS

SUPPLIES IDS

SAND	
TOLUENE	084035
ACID SILICA	03092009A
BASE SILICA	02172009B
SILICA	02272009
FLORISIL	02272009
HEXANE	04108
CH ₂ Cl ₂	04348
TETRADECANE	112-1022008
HYDROMATRIX	01302009
H ₂ SO ₄	
K SILICATE	
AgNO ₃	02172009

Project: P1158

Extraction Batch: 6630

Extraction Group: 1613SOL

3-4-09 3-4-09 3-9-09

SDS Number	AP Sample ID	Client Sample ID	Weight g	Observations	ES 200µL	A Ax B 200µL 200µL	SDS (tol)	CS 200µL	ASECS (Td) 20µL	Additional Cleanup	JS 200µL
1	0_6630_MB001	_____	10.060-0.00	Hydramatrix 01302009	all	- -	all	all	all 14	-	all
2	0_6630_OPR001	_____	10.180-0.00	Hydramatrix 01302009	all	all all	all	all	all 13	-	all
3	P1158_6630_001	PO-BA-24-SS-A-090	40.900-0.00	Very wet black mud	all	3-4-09	all	all	all 12	-	all
4	P1158_6630_002	PO-BA-25-SS-A-090	37.990-0.00	see col	all	- -	all	all	all 11	-	all
5	P1158_6630_003	PO-BA-26-SS-A-090	35.150-0.00	see col	all	- -	all	all	all 10	-	all
6	P1158_6630_004	PO-BA-27B-SS-A-090	30.710-0.00	see col	all	- -	all	all	all 9	-	all

3/9/09 JS

3-4-09 3-4-09 3/9/09 3-9-09 3-9-09

*Dec to 3/25/09

Ax A 07012007F
1 pg/L
exp. 1-2-10
SIL 7-29-2

AS 07012007B AS
10 pg/L
exp. 6-30-09
SIL 8-9-2

ES ID: 07012007B-ES	AS ID: 01262009 Ax B	CS ID: 07012007A-CS	JS ID: 07012007E-JS	Cycle Time: 3-4-09	Check Out: all 3/14/09
ES (conc.): 10 pg/L	Ax (conc.): 10 pg/L	CS (conc.): 40 pg/L	JS (conc.): 10 pg/L	Start: 3:30 pm	Chemist: all 3/14/09
ES (exp.): 6-30-09	Ax (exp.): 1-26-11	CS (exp.): 6-30-09	JS (exp.): 2/4/10	Stop: 3:50 am	Check-In: all 3/14/09
Vial #: SIL 7-29-2	Vial #: SIL 9-2-2	Vial #: SIL 7-23-3	Vial #: SEC 9-5-4		
ES: 200 0.01 µL @ 0.1 ng/µL	Ax: 20 µL @ 0.01 ng/µL	CS: 20 µL @ 0.04 ng/µL	JS: 10 µL @ 0.2 ng/µL		

Project: P1158
 Extraction Group: 1613SOL

Extraction Batch: 6682

W 3-20-09 *W* 3-20-09 *Am* 3/22/09 *Am* 3/22/09

SDS Number	AP Sample ID	Client Sample ID	Weight g	Observations	ES 200 μ l	A Ax B 200 μ l 20 μ l	SDS (tol)	CS/AS 20 μ l 200 μ l	ASECS (Td) 20 μ l	Additional Cleanup	JS 200 μ l
8	0_6682_MB001	{ Batched w/	10.14 0.00	{ Impure matrix	<i>W</i>	--	<i>W</i>	<i>W</i> <i>W</i>	<i>W</i> 1	--	<i>W</i>
9	0_6682_OPR001	} P1183	10.66 0.00		<i>W</i>	<i>W</i> <i>W</i>	<i>W</i>	<i>W</i> <i>W</i>	<i>W</i> 2	--	
10	P1158_6682_003	PO-BA-26-SS-A-090	35.790 0.00	wet brown mud	<i>W</i>	--	<i>W</i>	<i>W</i> <i>W</i>	<i>W</i> 5	--	<i>W</i>
11	P1158_6682_004	PO-BA-27B-SS-A-09	37.15 0.00	See 003	<i>W</i>	--	<i>W</i>	<i>W</i> <i>W</i>	<i>W</i> 7	--	

*O cc AD 3/25/09

AxA 07012007F
 1 pg/pl
 exp. 1-2-10
 SIL8-74-1

AS
 07012007B-AS
 10 pg/ μ l
 exp. 06/30/09
 SIL8-8-9-2

ES ID: 07012007B-ES ES (conc.): 10 pg/pl ES (exp.): 6-30-09 Vial #: SIL7-29-2 200 0.01 ES: 20 μ l @ 0.1ng/ μ l	<u>B</u> AX ID: 01262009 Ax B Ax (conc.): 10 pg/pl Ax (exp.): 1-26-11 Vial #: SIL9-2-2 Ax: 20 μ l @ 0.01ng/ μ l	CS ID: 07012007ACS/SS CS (conc.): 40 pg/ μ l CS (exp.): 06/30/09 Vial #: SIL7-23-2 CS: 20 μ l @ 0.04ng/ μ l	JS ID: 07012007F-JS JS (conc.): 10 pg/ μ l JS (exp.): 03/13/10 Vial #: SIL9-8-4 200 0.01 JS: 20 μ l @ 0.2ng/ μ l	Cycle Time: 3-20-09 Start: 2:45 pm 3-21-09 Stop: 9:30 am	Check Out: Chemist: <i>W</i> 3/20/09 Check-In: Chemist: <i>W</i> 3/20/09
---------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------	-----------------------------------------------------------------------------------

P 1158 R

Extraction Batch:

6682

Supply ID's

Sand	<u> </u>
Toluene	<u>0841055</u>
HydromatrixTM	<u>02209009, 03062009</u>
Acid Silica	<u>031412009A</u>
Base Silica	<u>02242009C</u>
Silica	<u>03142009</u>
Florisil	<u>03152009</u>
Carbon	<u> </u>
Hexane	<u>CY108</u>
CH₂Cl₂	<u>CY348</u>
Tetradecane	<u>10292009</u>
Nonane	<u> </u>
Other	<u>03162009</u>



ANALYTICAL PERSPECTIVES

SAMPLE PATH

AP PROJECT NO.: P1158

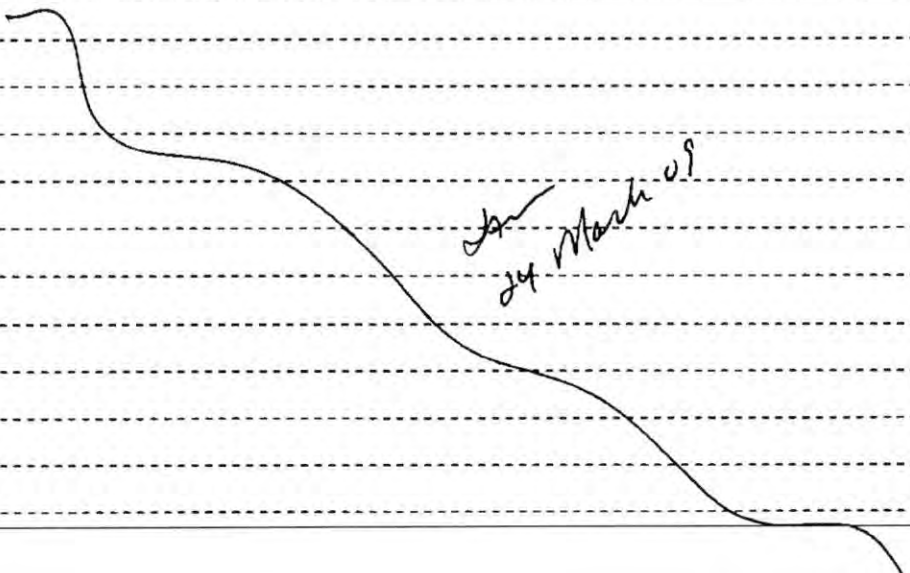
SPIKE PROFILE PCDD/F

Analyte	Spiked Compounds	Spiked Amount	Spiked Volume	Spiking Solution Conc.	Split Factor Factor	Final Volume	Final Solvent
PCDD/F ee Ad 3/25/09	ES	2 ng	200 µL	0.01 ng/µL	1	20 µL	Td
	CS / AS	0.8 / 2 ng	20 µL	0.04 ng/µL			
	JS	2 ng	200 µL	0.01 ng/µL	1	20 µL	Td
	Ax BCS3 A:B	0.2 ng	200 µL	0.001 ng/µL			

SPECIAL INSTRUCTIONS

11-can samples 003 + 004 on 20 March 09
due to recovery issues

on 24 March 09





M8290/1613 PCDD/F SPIKE PROFILE

ANALYTE	CLEANUP STANDARDS AMOUNT SPIKED (NG)
³⁷ Cl ₄ -2,3,7,8-TCDD	0.8
¹³ C ₁₂ -1,2,3,4,7-PeCDD	2
¹³ C ₁₂ -1,2,3,4,6-PeCDF	2
¹³ C ₁₂ -1,2,3,4,6,9-HxCDF	2
¹³ C ₁₂ -1,2,3,4,6,8,9-HpCDF	2

COMPOUND	INJECTION STANDARDS AMOUNT SPIKED NG
¹³ C ₁₂ -1,2,3,4-TCDD	2
¹³ C ₁₂ -1,2,3,4-TCDF	2
¹³ C ₁₂ -1,2,3,4,6,7-HxCDD	1

COMPOUND	ALTERNATE STANDARD AMOUNT SPIKED NG
¹³ C ₁₂ -1,3,6,8-TCDD	2
¹³ C ₁₂ -1,3,6,8-TCDF	2

COMPOUND	EXTRACTION STANDARDS AMOUNT SPIKED NG
¹³ C ₁₂ -2,3,7,8-TCDD	2
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2
¹³ C ₁₂ -OCDD	4
¹³ C ₁₂ -2,3,7,8-TCDF	2
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2
¹³ C ₁₂ -OCDF	4

% Solids

Procedures:

- Tare Balance.
- Add boat and weigh. Record "Boat Wt".
- Add the sample (2-10 g) to the boat and , record "Wet Wt. + Boat Wt." (total).
- Dry in oven overnight @ 107 C.
- Tare Balance.
- Return dish to toplayer, record "Residue + Boat Wt.".

Project:

P1158

Chemist:

AK

Extr Group:

66630

Prep. Date:

3-3-09

AP Sample ID	Boat Wt.	Wet Wt. + Boat Wt.	CHEM/DATE	Residue + Boat Wt.	CHEM/DATE	COMMENTS
001	1.32	7.49	all	2.84	all	10g eqn. 40.59
002	1.31	7.43	all	3.07	all	34.77
003	1.31	7.90	all	3.22	all	34.50
004	1.31	7.97	all 3-3-09	3.15	all 3-4-09	36.20
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-45deg); opacity: 0.5;"></div>						
		ee Ad				
		3/25/09				

NOTES:

Final Benchsheet for Extraction Set 6630

PrepBatch: ~~1,714,756~~ ^{ec Ad 3/28/07}
6630
Units: g
Extr Group: 1613SOL
 Date Extr: 3/4/2009
Chemist: Jeremy M. Kadylak
 Date Final: 3/10/2009

AP Sample ID	Boat Wt.	Wet Wt. (total)	Dry Wt. (Total)	% Solids	Sample Wt.	Final Wt.
0 6630 MB001						
0 6630 OPR001						
P1158 6630 001	1.32	7.49	2.84	24.64	40.90	10.08
P1158 6630 002	1.31	7.43	3.07	28.76	37.99	10.93
P1158 6630 003	1.31	7.90	3.22	28.98	35.15	10.19
P1158 6630 004	1.31	7.97	3.15	27.63	36.79	10.16

NOTES: *was. ac'd w/ 3-10-09*
hrmsfinalizePBs.rpt

Final Benchsheet for Extraction Set 6682

PrepBatch: ~~62,607,028~~
 ceAD 3/25/09
 6682
Extr Group: 1613SOL
Chemist: Christopher T. Wood

Units: g
Date Extr: 3/20/2009
Date Final: 3/23/2009

AP Sample ID	Boat Wt.	Wet Wt. (total)	Dry Wt. (Total)	% Solids	Sample Wt.	Final Wt.
0 6682 MB001						
0 6682 OPR001						
P1158 6682 003	1.31	7.90	3.22	28.98	35.79	10.37
P1158 6682 004	1.31	7.97	3.15	27.63	37.15	10.26

NOTES: Wts. acid w 3.23.00



Sample Inventory Report - Extended

Project Name: 080166-01

Project No.: P1158

<u>AP Sample ID</u>	<u>Client Sample ID</u>	<u>Client Sample Description</u>	<u>Date Sampled</u>	<u>Date Received</u>
P1158 001	PO-BA-24-SS-A-090226	Sediment	26-Feb-09	27-Feb-09
P1158 002	PO-BA-25-SS-A-090226	Sediment	26-Feb-09	27-Feb-09
P1158 003	PO-BA-26-SS-A-090226	Sediment	26-Feb-09	27-Feb-09
P1158 004	PO-BA-27B-SS-A-090226	Sediment	26-Feb-09	27-Feb-09

*ok
on
03 March 09*

CHAIN-OF-CUSTODY RECORD

PROJECT ID: 080166-01 P.O. No.: JD-021909B SAMPLER: LIZ VONCKX kwvonckx
(PRINTED NAME) (SIGNATURE)

RELINQUISHED BY: (SIGNATURE & PRINTED NAME) DATE: TIME: RECEIVED BY: (SIGNATURE & PRINTED NAME) DATE: TIME:
kwvonckx 2/26/09 1700 N. Musselwhite 27 Feb 09 11:30
RELINQUISHED BY: (SIGNATURE & PRINTED NAME) DATE: TIME: RECEIVED BY: (SIGNATURE & PRINTED NAME) DATE: TIME:

SHIP TO: ANALYTICAL PERSPECTIVES
2714 EXCHANGE DRIVE
WILMINGTON, NC 28405
PH.: 910-794-1613

METHOD OF SHIPMENT: _____

SHIPMENT ID: _____

ATTN: YVES TONDEUR

QAPP REFERENCE: _____
SAMPLE ACCEPTANCE POLICY
(ON BACK SIDE)

SAMPLE ID	DATE	TIME	SAMPLE DESCRIPTION	MS/MSD	DUP	EPA METHOD 8290	EPA METHOD 1613	EPA METHOD 1668A	PAHS BY HRMS	QUANTIC	U-SYOA	WHO2 / WHO2S	1668 X	TAT	CONTAINER(S)		
															QTY	TYPE	MATRIX
PO-BA-24- SS-A-090226	2/24/09	1150	sediment			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								1		sed
PO-BA-25- SS-A-090226	↓	1105	↓			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								↓		↓
PO-BA-26- SS-A-090226	↓	1120	↓			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								↓		↓
PO-BA-27B- SS-A-090226	↓	1025	↓			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								↓		↓
						<input type="checkbox"/>	<input type="checkbox"/>										
						<input type="checkbox"/>	<input type="checkbox"/>										
						<input type="checkbox"/>	<input type="checkbox"/>										

SPECIAL INSTRUCTIONS/COMMENTS:

CIRCLE OPTION BELOW

"DIOXINS/FURANS ONLY"
"OTHER"

"D/F - PCB"

"D/F - PCB - PAH"

"TRI - OCTA"

2,3,7,8-TCDD/F

2,3,7,8-TCDD

PLEASE SEE NOTES AT THE BACK OF THE COC.

REQUESTED TAT:
____ DAYS

1. SAMPLE ACCEPTANCE POLICY
2. METHOD 8290 MS/MSD & DUP

PLEASE SPECIFY TEFS

"ITEFS"

"WHO TEFS"

SEND DOCUMENTATION & RESULTS TO:

NAME:
COMPANY:
ADDRESS:
CITY:
PH.:

DAN BERLIN
ANCHOR OEA, LLC
1423 3rd Ave. Suite 300
Seattle STATE: WA ZIP: 98101
(206) 287-9130 E-MAIL: dberlin@anchorenv.com

P1158

Kimberly Mace

From: Joy Dunay [jdunay@anchorqea.com]
Sent: Thursday, February 26, 2009 11:16 AM
To: Kimberly Mace
Cc: Todd Vilen
Subject: RE: Port of Olympia sampling.....

Thanks Kim. We have decided to stick with the standard turn around time.

From: Kimberly Mace [mailto:kmace@ultratrace.com]
Sent: Wednesday, February 25, 2009 10:29 AM
To: Joy Dunay
Cc: 'Todd Vilen'; 'Allen Martin'
Subject: RE: Port of Olympia sampling.....

Hi Joy:

We will be able to do a 7 day TAT. The charge will be \$2080 per sample.

We will send you a sample log-in receipt once we receive the samples on Friday, Kim

Kimberly Mace PhD
Analytical Perspectives
(910) 794-1613 ext) 102

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From: Joy Dunay [mailto:jdunay@anchorqea.com]
Sent: Wednesday, February 25, 2009 12:51 PM
To: Kimberly Mace
Cc: Todd Vilen
Subject: RE: Port of Olympia sampling.....

4 sediment samples.

From: Kimberly Mace [mailto:kmace@ultratrace.com]
Sent: Wednesday, February 25, 2009 9:49 AM
To: Joy Dunay
Cc: 'Todd Vilen'
Subject: RE: Port of Olympia sampling.....

Hi Joy:

How many samples are coming in on Friday? If you can let me know I will check with the lab.

Thanks, Kim

Kimberly Mace PhD

3/3/2009

Analytical Perspectives
(910) 794-1613 ext) 102

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From: Joy Dunay [mailto:jdunay@anchorqea.com]
Sent: Wednesday, February 25, 2009 12:15 PM
To: km@ultratrace.com
Cc: Todd Vilen
Subject: Port of Olympia sampling.....
Importance: High

Kim/Todd,
Our sampling has been delayed to Thursday. You should receive them on Friday.
Would it be possible to analyze on a 1-week TAT? If so, what is the surcharge?

Thanks,
Joy

Joy Dunay

ANCHOR QEA, LLC
jdunay@anchorqea.com
1423 Third Avenue, Suite 300
Seattle, WA 98101
T 206.287.9130
D 206.903.3320
F 206.287.9131

Anchor and QEA recently merged. Please note our new company name and email addresses.

ANCHOR QEA, LLC
www.anchorqea.com

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SAMPLE LOG-IN FORM

Client Project / Job I#

080166-0

PO #:

JD-021909B

Date Samples Arrived: 27 Feb 09 Initials: NM

Time / Date logged in: 11:30 AM 27 Feb 09 Refrigerator: F6 Initials: NM

Samples Arrived By: (circle one) FedEx UPS Airborne Express DHL Emery
Freezer Truck Company Courier Other _____

Shipping Preservation: (circle) Ice Blue Ice / Dry Ice / None Temp °C 3° *ok by 02 March 09*

Shipping Documentation Present? (circle one) Shipping Label or Airbill

of boxes: 1 # of coolers: 1 Tracking #s: 7963 8385 0441

Shipping Container(s) intact? yes If no, describe condition:

Container Custody Seals Present & Intact? yes If not intact, describe condition:

Sample Custody Seals Present & Intact? NA If not intact, describe condition:

of Seals: 0 or Seal #: 0

Sample Container Intact? yes If no, indicate sample condition:

Chain of Custody (COC) / Sample Documentation Present? yes Exceptions? N/A

If not, complete COC Anomaly Form

Shipping Container: (circle) Client or AP Return Retain Dispose

Container and/or Bottles Requested? NO

Sample Control Log In/Out Completed? yes

Drinking Water Sample? NO If yes, Acceptable preservation? N/A

FILL BELOW IF APPLICABLE

Have all the samples arrived? yes If no, complete the following.

Shipment #: _____ Date of Arrival: _____ Condition: _____ Temp°C _____

Delivered by: _____ Tracking #s _____

COC Present? _____ Acceptable? _____ If no, document on COC Anomaly Form additional shipment comments.

Container Intact? _____ Samples Intact? _____ If no, describe:

Do we expect another shipment? _____ If yes, start a new log-in sheet. 😊

AP Project ID: P1158

CHAIN OF CUSTODY ANOMALY FORM

The following items were omitted from the COC

Project ID and/or PO#:

Sampler:

Relinquished By:

Date:

Time:

Sample ID:

Sample Date:

Sample Description:

Analysis Requested:

Turn-Around Time:

Container Qty.:

Container Type:

Other:

COMMENTS

Analytical Perspectives - Injection Log

Analyst: MC
MS Method: DF_CL4-8

GC Column: db-5
GC Method: DB5MS_60M

Data file S#	Vial#	Lab ID	Sample ID (Chrom. Text)	Wt/Vol	ES	Check	Acq date	Acq time
090311P2	1	8 CS3 ✓	CS3 SIL7-25-4 ✓	1.0000	100	✓	11-MAR-09	16:29:05 ✓
090311P2	2	92 OPR1_6630_DF ✓	OPR1_6630_DF 0_6630_OPR001 ✓	1.0000	100	✓	11-MAR-09	17:19:23 ✓
090311P2	3	15 SBS ✓	SBS SOLVENT BLANK ✓	10.000	100	✓	11-MAR-09	18:09:28 ✓
090311P2	4	91 MB1_6630_DF_SDS ✓	MB1_6630_DF_SDS 0_6630_MB001 ✓	10.000	2000	3745 ✓	11-MAR-09	18:59:46 ✓
090311P2	5	93 P1158_6630_001 ✓	P1158_6630_001 PO-BA-24-SS-A-090226 10.1g ✓	10.080	2000	4320 ✓	11-MAR-09	19:50:04 ✓
090311P2	6	94 P1158_6630_002 ✓	P1158_6630_002 PO-BA-25-SS-A-090226 10.93g ✓	10.930	2000	4282 ✓	11-MAR-09	20:40:22 ✓
090311P2	7	95 P1158_6630_003	P1158_6630_003 PO-BA-26-SS-A-090226 10.19g	10.190	2000	4547	11-MAR-09	21:30:40
090311P2	8	96 P1158_6630_004	P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g	10.160	2000	4829	11-MAR-09	22:20:58

→ data rejected due to low recoveries
on 24 March 09

o/c
on
24 March 09

Analytical Perspectives - Injection Log

Analyst: MC
MS Method: DF_CL4-8

GC Column: db-5
GC Method: DB5MS-60M

Data file S#	Vial#	Lab ID	Sample ID (Chrom. Text)	Wt/Vol	ES	Check	Acq date	Acq time
090323P2	1	8 CS3 ✓	CS3 SIL7-25-4 ✓	1.0000	100 ✓		23-MAR-09	21:18:18 ✓
090323P2	2	32 OPR1_6682_DF ✓	OPR1_6682_DF 0_6682_OPR001 ✓	1.0000	100 ✓		23-MAR-09	22:08:19 ✓
090323P2	3	15 SBS ✓	SBS SOLVENT BLANK ✓	10.000	100 ✓		23-MAR-09	22:58:21 ✓
090323P2	4	31 MBI_6682_DF_SDS ✓	MBI_6682_DF_SDS 0_6682_MB001 ✓	10.000	2000 ✓	0433 ✓	23-MAR-09	23:48:28 ✓
090323P2	5	33 P1158_6682_003 ✓	P1158_6682_003 PO-BA-26-SS-A-090226 10.37g ✓	10.370	2000 ✓	0311 ✓	24-MAR-09	00:38:35 ✓
090323P2	6	34 P1158_6682_004 ✓	P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g ✓	10.260	2000 ✓	2589 ✓	24-MAR-09	01:28:40 ✓

ok
✓
24 March 09

1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: 0_6630_MB001 ✓
 Lab ID: MB1_6630_DF_SDS
 Sample text: MB1_6630_DF_SDS 0_6630_MB001
 Filename: 090311P2 S: 4 Vial: 91 Acq: 11-MAR-09 18:59:46 ✓
 column ID: db-5 Cal: MM1_DF_07012007A_25DEC08wt/Vol: 10.0g
 Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000 ✓

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	*	* n	NotF»	1.08	*	897	2.5	0.0728	-
Ax	1,2,3,7,8-PeCDD	*	* n	NotF»	1.00	*	1587	2.5	0.209	-
Ax	1,2,3,4,7,8-HxCDD	*	* n	NotF»	1.08	*	886	2.5	0.102	-
Ax	1,2,3,6,7,8-HxCDD	*	* n	NotF»	0.94	*	886	2.5	0.114	-
Ax	1,2,3,7,8,9-HxCDD	*	* n	NotF»	0.99	*	886	2.5	0.116	-
Ax	1,2,3,4,6,7,8-HpCDD	*	* n	NotF»	0.97	*	406	2.5	0.0604	-
Ax	OCDD	*	* n	NotF»	1.06	*	683	2.5	0.176	-
Ax2	OCDD-a	*	* n	NotF»	0.06	*	2075	2.5	8.98	-
Ax	2,3,7,8-TCDF	*	* n	NotF»	1.05	*	1194	2.5	0.0590	-
Ax	1,2,3,7,8-PeCDF	*	* n	NotF»	0.98	*	2243	2.5	0.149	-
Ax	2,3,4,7,8-PeCDF	*	* n	NotF»	1.01	*	2243	2.5	0.133	-
Ax	1,2,3,4,7,8-HxCDF	*	* n	NotF»	1.22	*	796	2.5	0.0387	-
Ax	1,2,3,6,7,8-HxCDF	*	* n	NotF»	1.15	*	796	2.5	0.0303	-
Ax	2,3,4,6,7,8-HxCDF	*	* n	NotF»	1.13	*	796	2.5	0.0352	-
Ax	1,2,3,7,8,9-HxCDF	*	* n	NotF»	1.12	*	796	2.5	0.0552	-
Ax	1,2,3,4,6,7,8-HpCDF	*	* n	NotF»	1.37	*	896	2.5	0.0510	-
Ax	1,2,3,4,7,8,9-HpCDF	*	* n	NotF»	1.32	*	896	2.5	0.0746	-
Ax	OCDF	*	* n	NotF»	0.94	*	1390	2.5	0.262	-
Ax2	OCDF-a	*	* n	NotF»	0.05	*	422	2.5	1.41	-
ES	13C-2,3,7,8-TCDD	4.40e+07	0.81 y	26:55	0.99	161	2204	2.5	0.157	80.4
ES	13C-1,2,3,7,8-PeCDD	3.71e+07	1.65 y	32:35	0.83	161	6281	2.5	0.531	80.7
ES	13C-1,2,3,4,7,8-HxCDD	3.11e+07	1.30 y	36:33	1.08	155	9124	2.5	0.934	77.6
ES	13C-1,2,3,6,7,8-HxCDD	3.41e+07	1.29 y	36:40	1.23	150	9124	2.5	0.825	75.0
ES	13C-1,2,3,7,8,9-HxCDD	3.47e+07	1.29 y	36:59	1.21	155	9124	2.5	0.836	77.4
ES	13C-1,2,3,4,6,7,8-HpCDD	2.90e+07	1.07 y	40:12	0.98	159	12934	2.5	1.46	79.7
ES	13C-OCDD	3.57e+07	0.88 y	43:47	0.66	292	8880	2.5	1.49	73.0
ES	13C-2,3,7,8-TCDF	7.49e+07	0.79 y	25:59	0.96	151	2144	2.5	0.0933	75.5
ES	13C-1,2,3,7,8-PeCDF	7.48e+07	1.61 y	31:04	0.85	169	10466	2.5	0.511	84.5
ES	13C-2,3,4,7,8-PeCDF	7.55e+07	1.61 y	32:13	0.88	165	10466	2.5	0.493	82.3
ES	13C-1,2,3,4,7,8-HxCDF	4.47e+07	0.55 y	35:34	1.47	164	20001	2.5	1.50	81.8
ES	13C-1,2,3,6,7,8-HxCDF	6.22e+07	0.54 y	35:43	1.78	189	20001	2.5	1.25	94.6
ES	13C-2,3,4,6,7,8-HxCDF	5.39e+07	0.54 y	36:23	1.61	181	20001	2.5	1.38	90.3
ES	13C-1,2,3,7,8,9-HxCDF	4.18e+07	0.53 y	37:21	1.40	161	20001	2.5	1.58	80.7
ES	13C-1,2,3,4,6,7,8-HpCDF	3.39e+07	0.46 y	39:02	1.16	158	12789	2.5	1.22	78.9
ES	13C-1,2,3,4,7,8,9-HpCDF	2.93e+07	0.46 y	40:46	0.92	172	12789	2.5	1.54	85.8
ES	13C-OCDF	5.80e+07	0.89 y	44:01	1.04	302	9140	2.5	0.976	75.5
CS	37Cl-2,3,7,8-TCDD	1.92e+07		26:57	0.99	70.6			0.111	88.3
CS	13C-1,2,3,4,7-PeCDD	3.83e+07	1.68 y	32:04	0.77	181	6281	2.5	0.576	90.4
CS	13C-1,2,3,4,6-PeCDF	7.17e+07	1.58 y	30:31	0.79	174	10466	2.5	0.548	87.1
CS	13C-1,2,3,4,6,9-HxCDF	4.68e+07	0.54 y	36:02	1.41	179	20001	2.5	1.57	89.5
CS	13C-1,2,3,4,6,8,9-HpCDF	2.97e+07	0.45 y	39:31	0.91	176	12789	2.5	1.56	88.0
NA	n/a	*	* n	NotF»	Div0	*	1570	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.50e+07	0.83 y	26:14	-	15.7	2204	2.5	-	-
JS	13C-1,2,3,4-TCDF	1.04e+08	0.78 y	24:32	-	18.7	2144	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.85e+07	1.28 y	36:52	-	8.51	1037	2.5	-	-

AL

Analyst: *[Signature]*
 Date: *[Signature]*

24 March 09

SS	37Cl-2,3,7,8-TCDD	1.92e+07		26:57	1.00	87.3		0.136	109) No
SS	13C-1,2,3,4,7-PeCDD	3.83e+07	1.68 y	32:04	0.93	223	6281 2.5	0.889	111	
SS	13C-1,2,3,4,6-PeCDF	7.17e+07	1.58 y	30:31	0.94	205	10466 2.5	0.729	102	
SS	13C-1,2,3,4,6,9-HxCDF	4.68e+07	0.54 y	36:02	0.80	188	20001 2.5	1.09	94.0	
SS	13C-1,2,3,4,6,8,9-HpCDF	2.97e+07	0.45 y	39:31	0.79	221	12789 2.5	1.26	111	
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	1194 2.5	0.0590	-	
Ay	1,3,6,8-TCDD	*	* n	NotF»	1.08	*	897 2.5	0.0728	-	
Ay	1,2,3,9-TCDD	*	* n	NotF»	1.08	*	897 2.5	0.0728	-	
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	897 2.5	0.0728	-	
Ay	1,2,4,7,9-PeCDD	*	* n	NotF»	1.00	*	1587 2.5	0.209	-	
Ay	1,2,3,8,9-PeCDD	*	* n	NotF»	1.00	*	1587 2.5	0.209	-	
Ay	1,2,4,6,7,9-HxCDD	*	* n	NotF»	1.00	*	886 2.5	0.111	-	
Ay	1,2,3,4,6,7,9-HpCDD	1.39e+04	0.97 y	39:22	0.97	0.0981	406 2.5	0.0604	-	
Ay	1,3,6,8-TCDF	*	* n	NotF»	1.05	*	1194 2.5	0.0590	-	
Ay	2,3,4,8-TCDF	*	* n	NotF»	1.05	*	1194 2.5	0.0590	-	
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	1194 2.5	0.0590	-	
Ay	1,3,4,6,8-PeCDF	*	* n	NotF»	1.05	*	540 2.5	0.0267	-	
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	2243 2.5	0.141	-	
Ay	1,2,3,4,6,8-HxCDF	*	* n	NotF»	1.15	*	796 2.5	0.0385	-	
Tot	Total Tetra-Dioxins	*	* n	NotF»	1.08	*	897 2.5	0.0728	-	
Tot	Total Penta-Dioxins	*	* n	NotF»	1.00	*	1587 2.5	0.209	-	
Tot	Total Hexa-Dioxins	*	* n	NotF»	1.00	*	886 2.5	0.111	-	
Tot	Total Hepta-Dioxins	1.39e+04	0.97 y	39:22	0.97	0.0981	406 2.5	0.0604	-	
Tot	Total Tetra-Furans	*	* n	NotF»	1.05	*	1194 2.5	0.0590	-	
Tot	Total Penta-Furans	*	* n	NotF»	1.00	*	2243 2.5	0.141	-	
Tot	Total Hexa-Furans	*	* n	NotF»	1.15	*	796 2.5	0.0385	-	
Tot	Total Hepta-Furans	*	* n	NotF»	1.35	*	896 2.5	0.0617	-	
Tot	TCDD EMPC	*	* n	NotF»	1.08	*	897 2.5	0.0728	-	
Tot	PeCDD EMPC	*	* n	NotF»	1.00	*	1587 2.5	0.209	-	
Tot	HxCDD EMPC	*	* n	NotF»	1.00	*	886 2.5	0.111	-	
Tot	HpCDD EMPC	1.39e+04	0.97 y	39:22	0.97	0.0981	406 2.5	0.0604	-	
Tot	TCDF EMPC	*	* n	NotF»	1.05	*	1194 2.5	0.0590	-	
Tot	PeCDF EMPC	*	* n	NotF»	1.00	*	2243 2.5	0.141	-	
Tot	HxCDF EMPC	*	* n	NotF»	1.15	*	796 2.5	0.0385	-	
Tot	HpCDF EMPC	*	* n	NotF»	1.35	*	1029 2.5	0.0708	-	
AS	13C-1,3,6,8-TCDD	4.38e+07	0.83 y	22:57	1.09	146	2204 2.5	0.143	73.2	
AS	13C-1,3,6,8-TCDF	8.41e+07	0.77 y	20:46	1.09	149	2144 2.5	0.0820	74.4	
DPE	HxCDFPE	*		NotF»	-	*	-	-	-	
DPE	HpCDFPE	*		NotF»	-	*	-	-	-	
DPE	OCDFPE	*		NotF»	-	*	-	-	-	
DPE	NCDFPE	*		NotF»	-	*	-	-	-	
DPE	DCDFPE	*		NotF»	-	*	-	-	-	
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 11 Checkcode: 3745
 File Name: 090311P2 Sample #: 4 Sample text: MB1_6630_DF_SDS 0_6630_MB001

Acquired: 11-MAR-09 18:59:46 Processed: 19-MAR-09 17:26:04

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF>	* n	* n	* n	*	*	*	n	*		
Totals Results		Analytical Perspectives				[Form: TOT]				

Totals class: PeCDD EMPC Function: 2 Run #: 11 Checkcode: 3745
 File Name: 090311P2 Sample #: 4 Sample text: MB1_6630_DF_SDS 0_6630_MB001

Acquired: 11-MAR-09 18:59:46 Processed: 19-MAR-09 17:26:04

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF>	* n	* n	* n	*	*	*	n	*		
Totals Results		Analytical Perspectives				[Form: TOT]				

Totals class: HxCDD EMPC Function: 3 Run #: 11 Checkcode: 3745
 File Name: 090311P2 Sample #: 4 Sample text: MB1_6630_DF_SDS 0_6630_MB001

Acquired: 11-MAR-09 18:59:46 Processed: 19-MAR-09 17:26:04

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF>	* n	* n	* n	*	*	*	n	*		
Totals Results		Analytical Perspectives				[Form: TOT]				

Totals class: HpCDD EMPC Function: 4 Run #: 11 Checkcode: 3745
 File Name: 090311P2 Sample #: 4 Sample text: MB1_6630_DF_SDS 0_6630_MB001

Acquired: 11-MAR-09 18:59:46 Processed: 19-MAR-09 17:26:04

Total Conc.: 0.098055 Unnamed Conc.: * Homolog count: 1

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:22	6.812e+03	y	7.045e+03	n	0.97	y	1.386e+04	1.386e+04	6.99e+00	y	0.0981 1,2,3,4,6,7,9-HpCDD
Totals Results		Analytical Perspectives				[Form: TOT]					

Totals class: TCDF EMPC Function: 1 Run #: 11 Checkcode: 3745
 File Name: 090311P2 Sample #: 4 Sample text: MB1_6630_DF_SDS 0_6630_MB001

Acquired: 11-MAR-09 18:59:46 Processed: 19-MAR-09 17:26:04

Total Conc.: * Unnamed Conc.: * Homolog count: 0

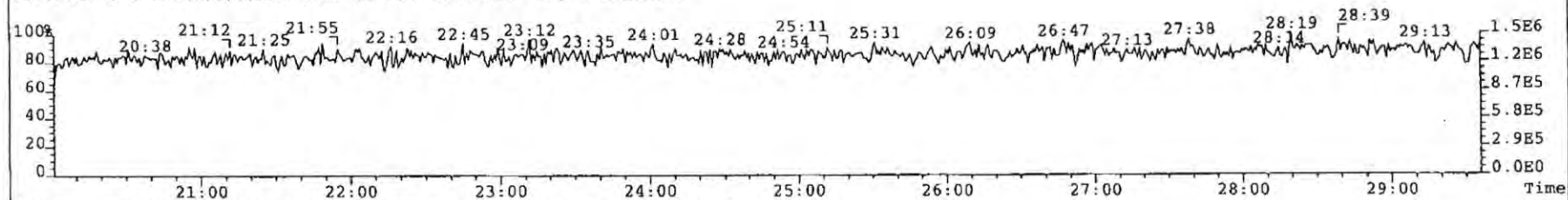
RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF> * n * n * n * * * n *
Totals Results Analytical Perspectives [Form: TOT]
Totals class: PeCDF EMPC Function: 2 Run #: 11 Checkcode: 3745
File Name: 090311P2 Sample #: 4 Sample text: MBI_6630_DF_SDS 0_6630_MB001
Acquired: 11-MAR-09 18:59:46 Processed: 19-MAR-09 17:26:04
Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF> * n * n * n * * * n *
Totals Results Analytical Perspectives [Form: TOT]
Totals class: HxCDF EMPC Function: 3 Run #: 11 Checkcode: 3745
File Name: 090311P2 Sample #: 4 Sample text: MBI_6630_DF_SDS 0_6630_MB001
Acquired: 11-MAR-09 18:59:46 Processed: 19-MAR-09 17:26:04
Total Conc.: * Unnamed Conc.: * Homolog count: 0

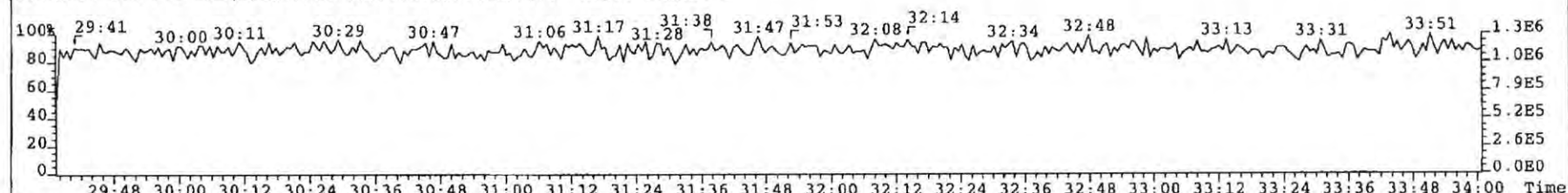
RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF> * n * n * n * * * n *
Totals Results Analytical Perspectives [Form: TOT]
Totals class: HpCDF EMPC Function: 4 Run #: 11 Checkcode: 3745
File Name: 090311P2 Sample #: 4 Sample text: MBI_6630_DF_SDS 0_6630_MB001
Acquired: 11-MAR-09 18:59:46 Processed: 19-MAR-09 17:26:04
Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF> * n * n * n * * * n *

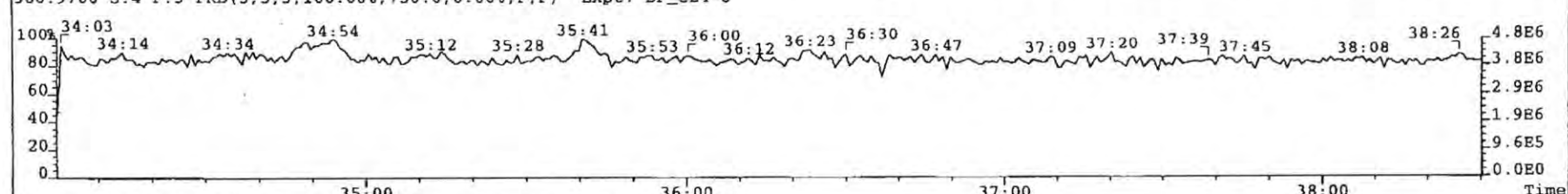
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBI_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



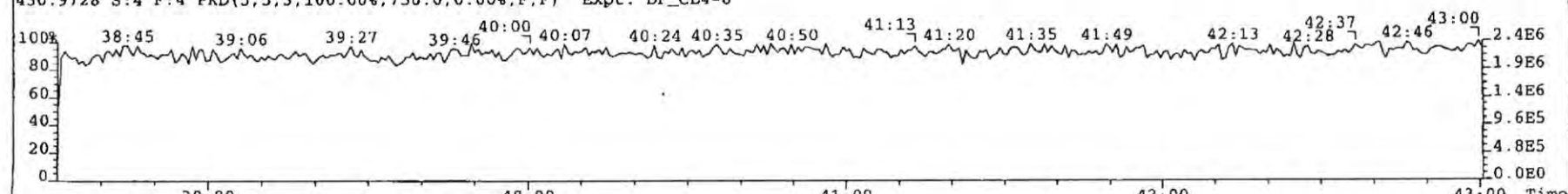
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



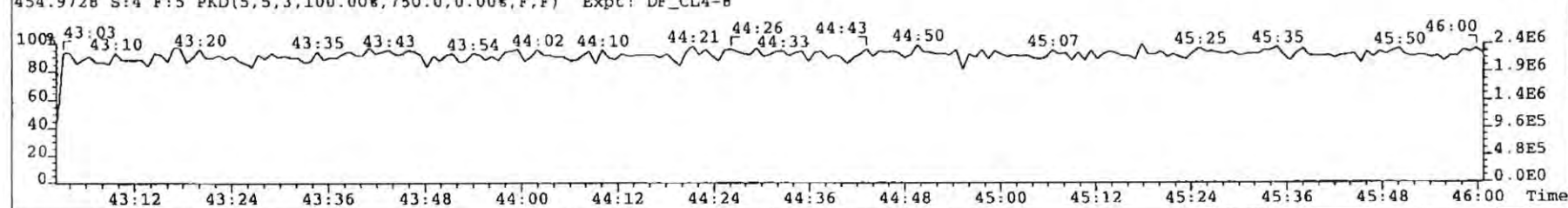
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



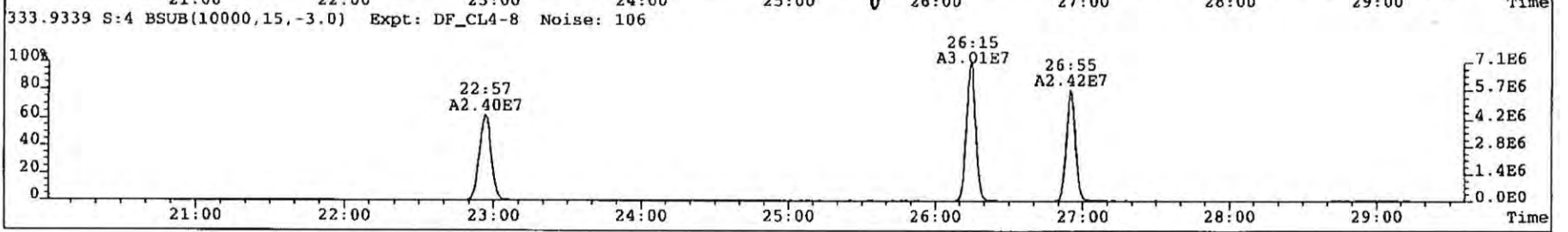
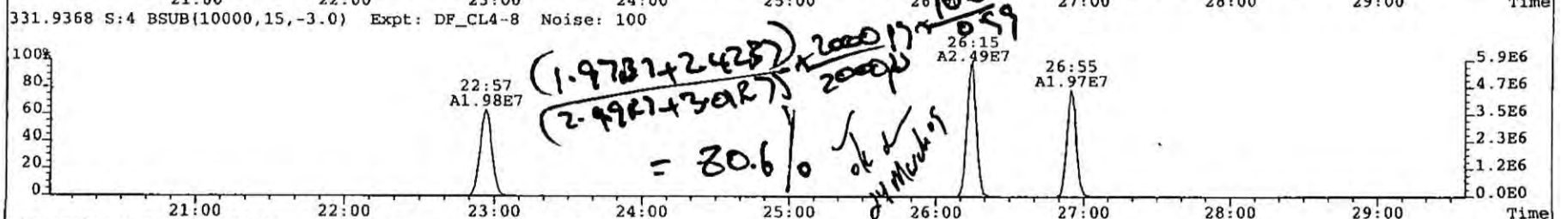
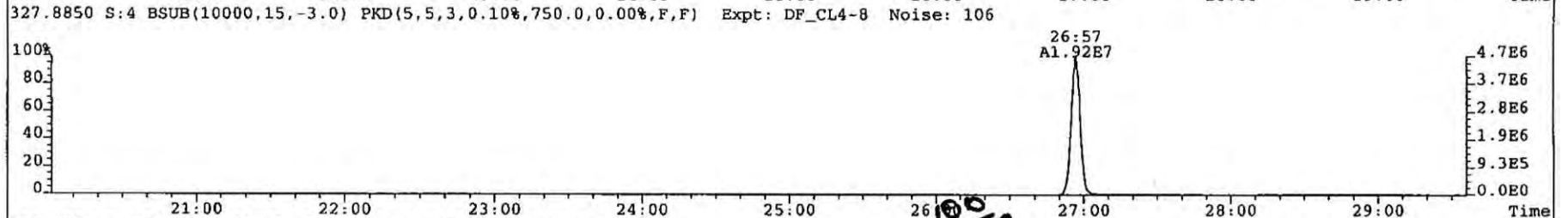
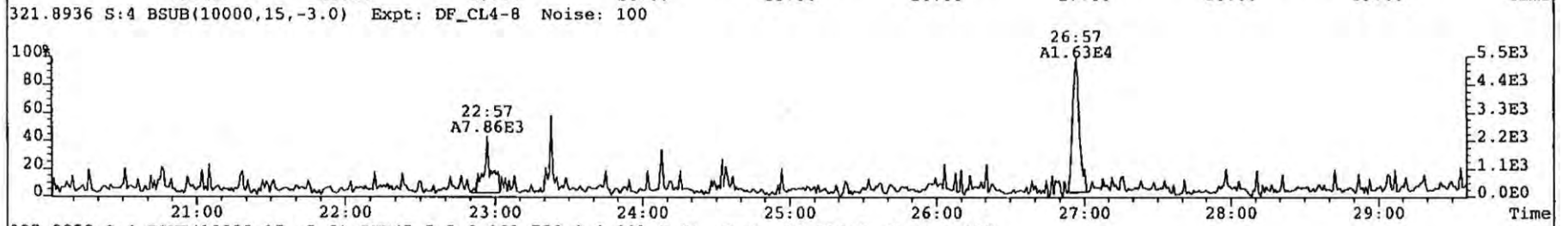
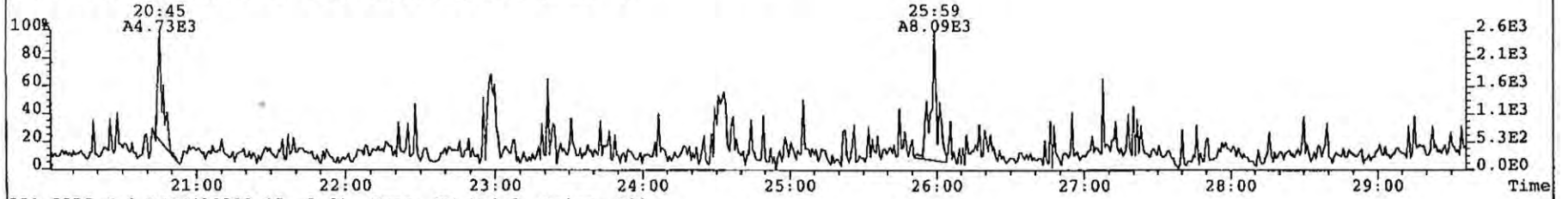
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



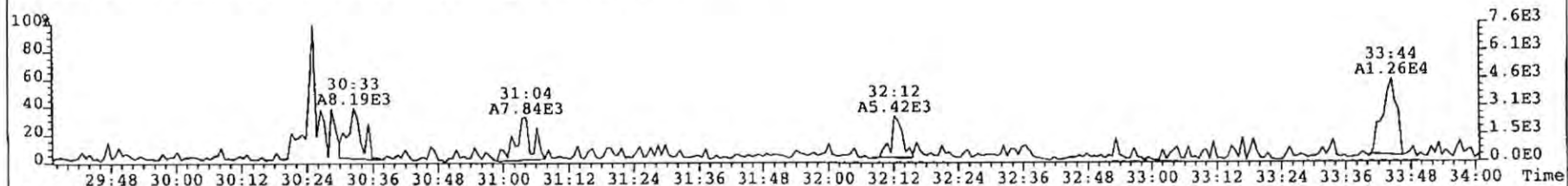
454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



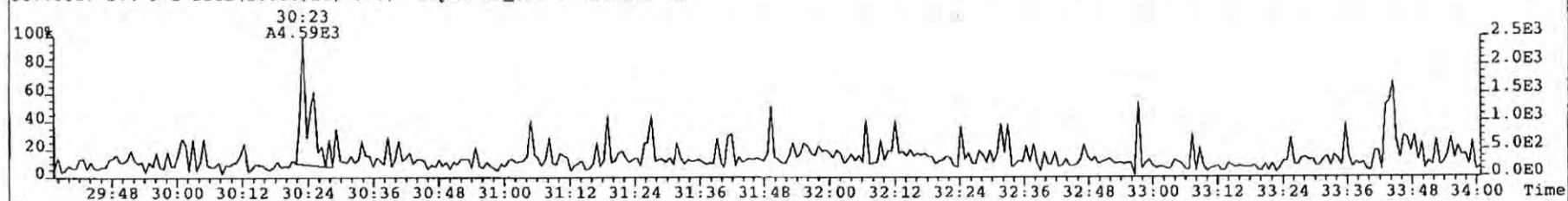
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 4 Text: MB1_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
 319.8965 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 97



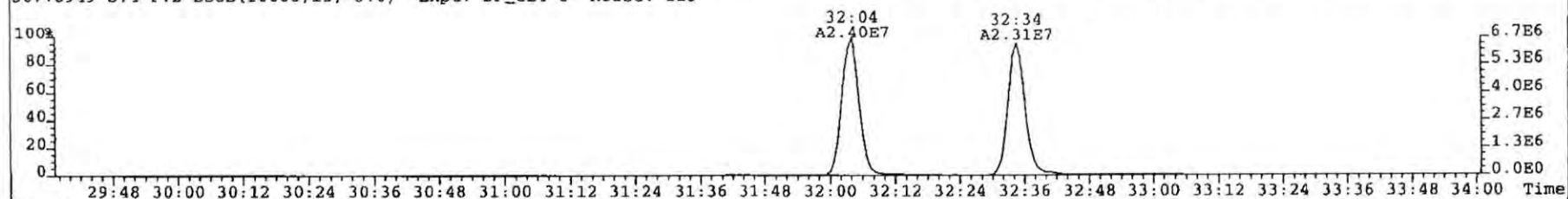
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBL_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
355.8546 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 94



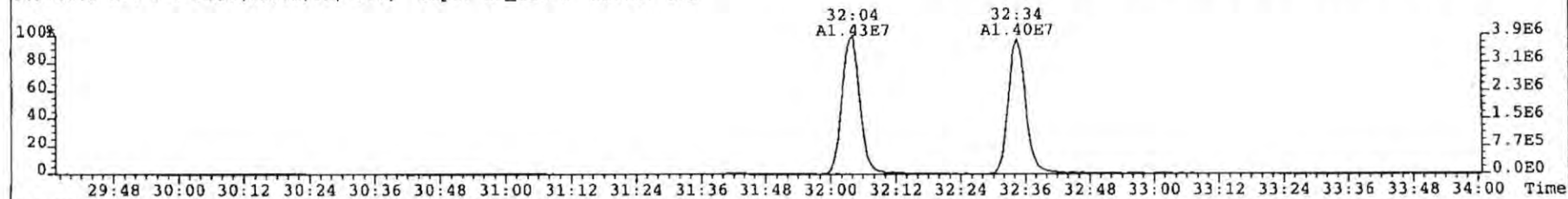
357.8517 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 82



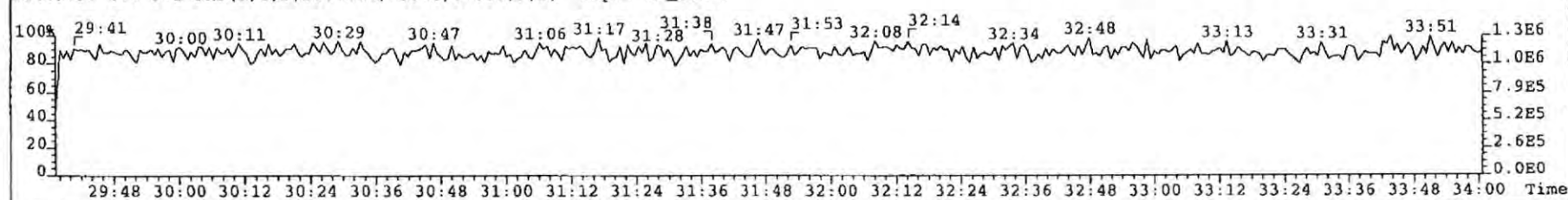
367.8949 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 123



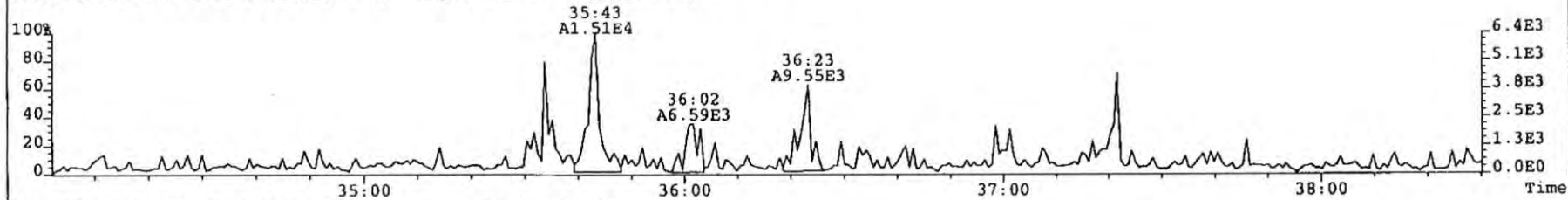
369.8919 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 112



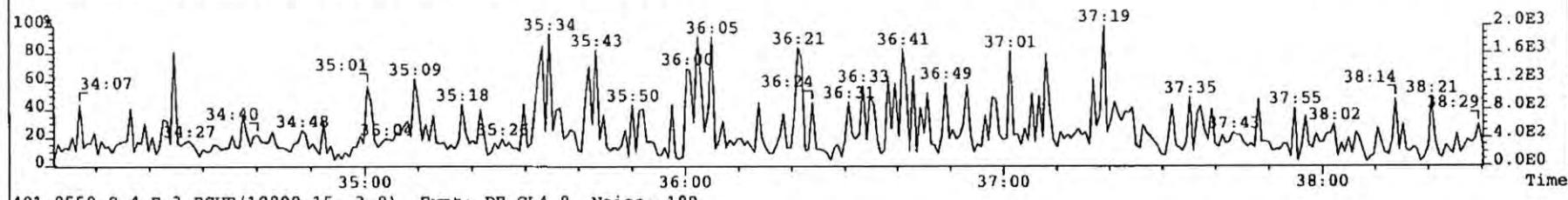
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



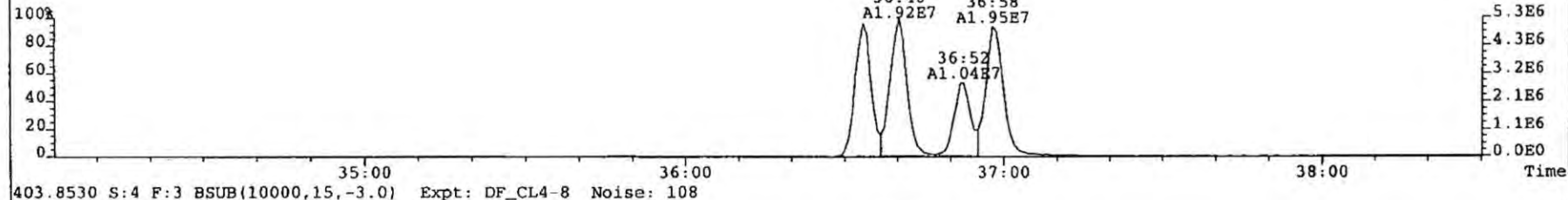
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBL_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 110



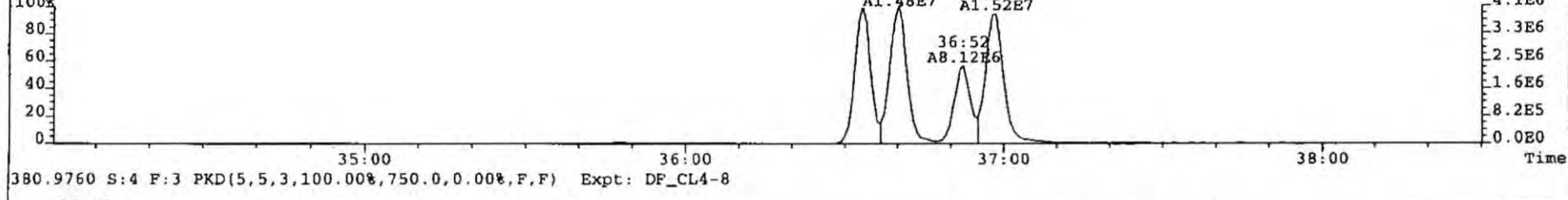
391.8127 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 100



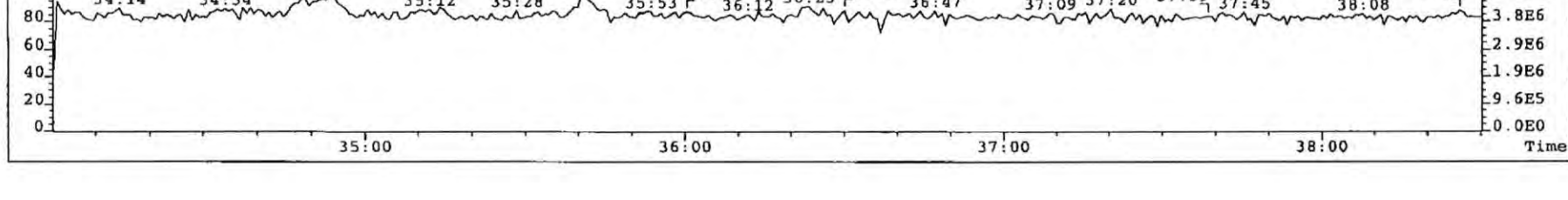
401.8559 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 180



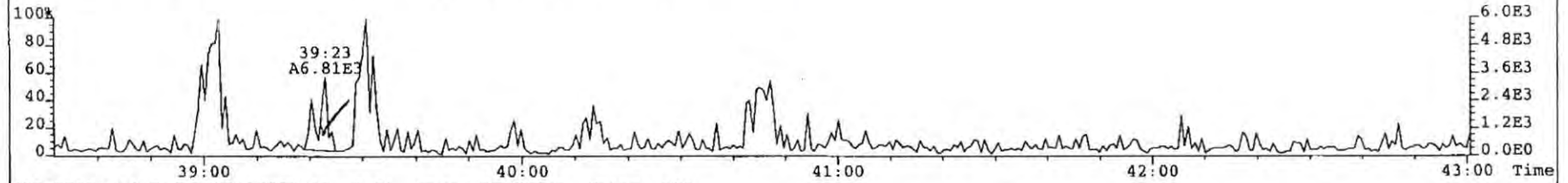
403.8530 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 108



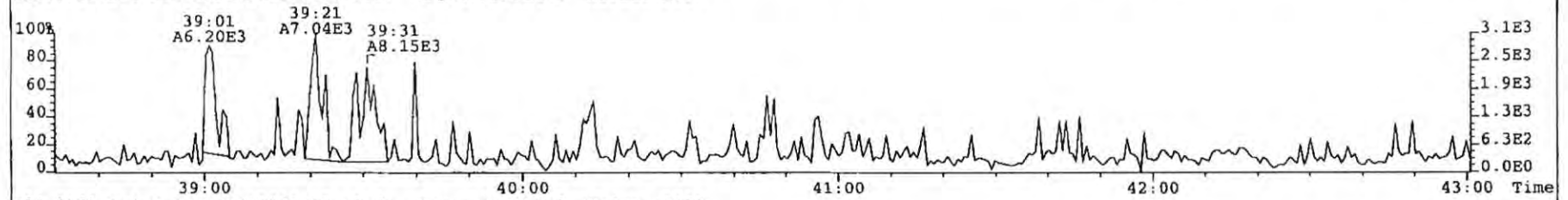
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



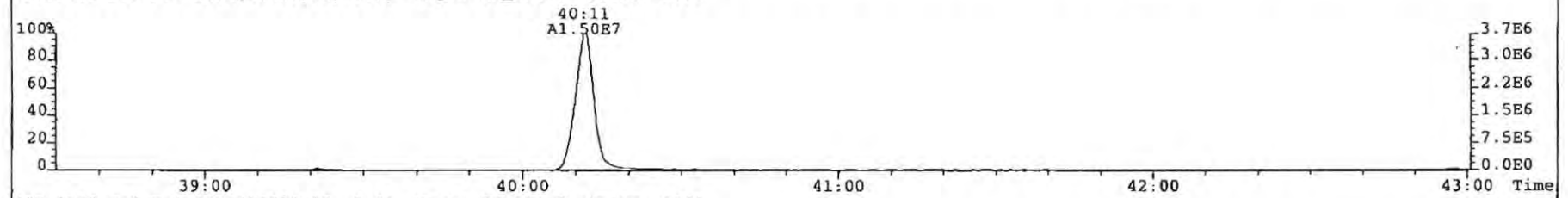
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



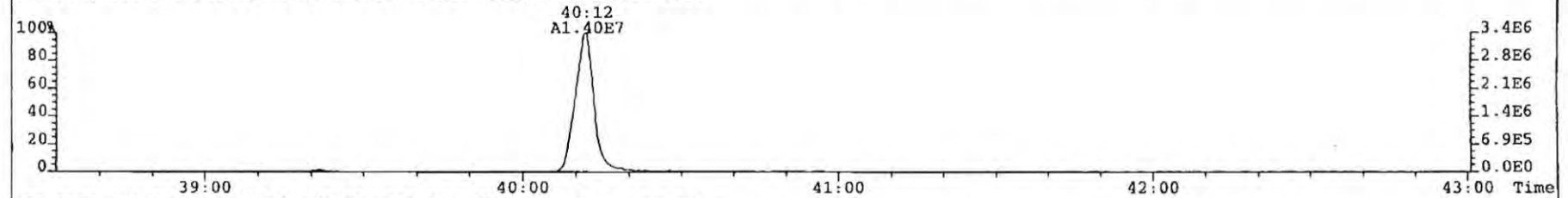
425.7737 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 106



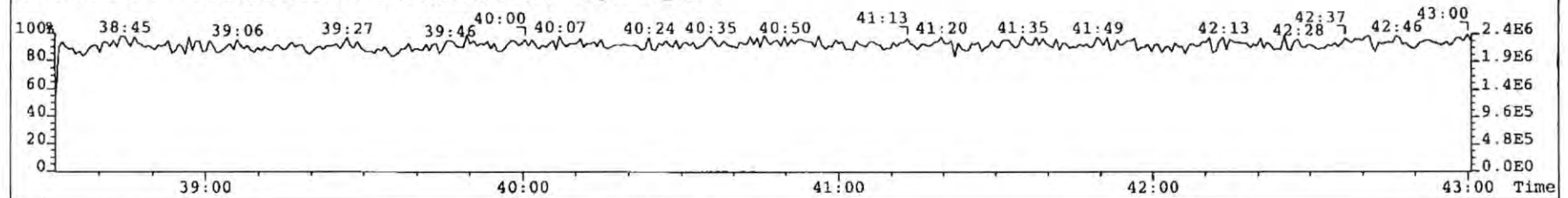
435.8169 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2052



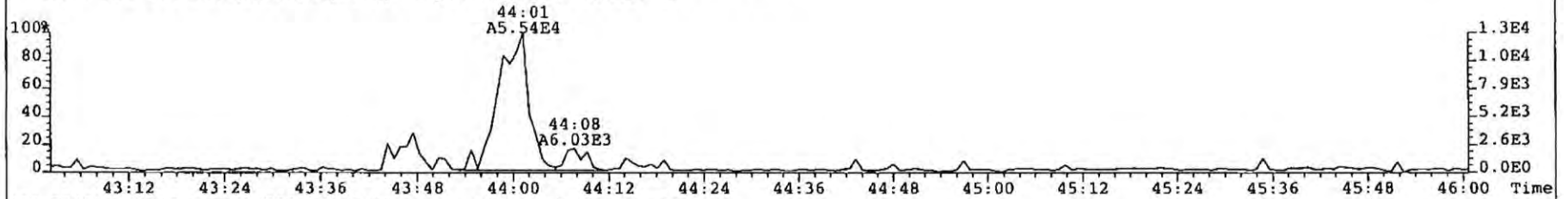
437.8140 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1968



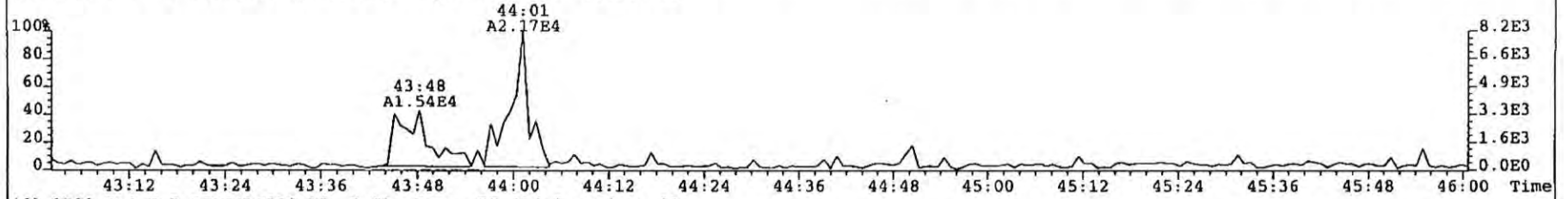
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



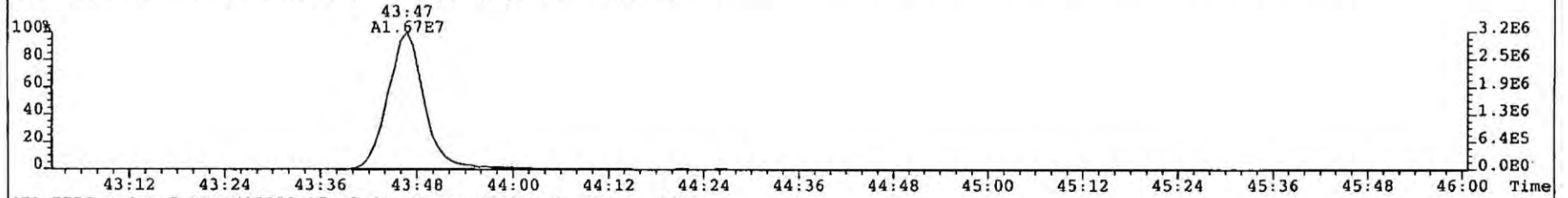
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBI_6630_DF_SDS_0_6630_MB001 Vial# 91 File Text: AP DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 88



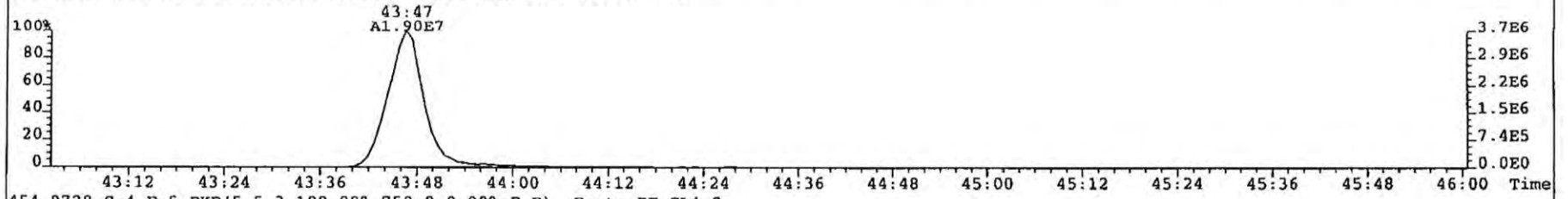
459.7348 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



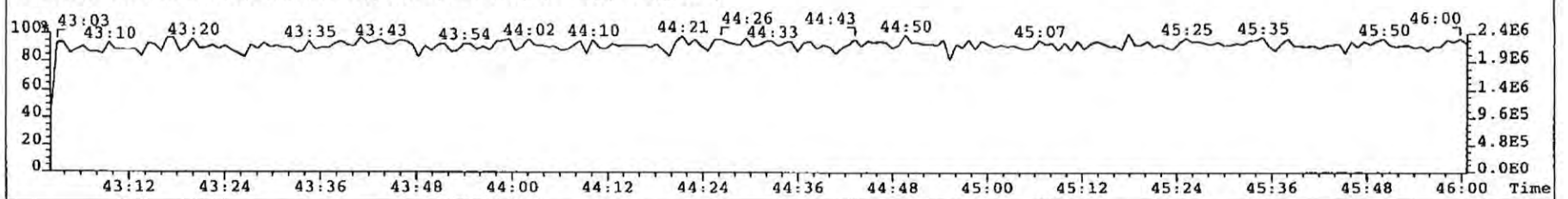
469.7780 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



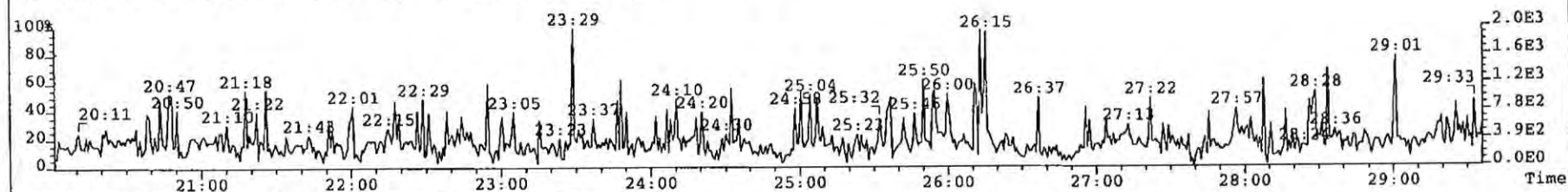
471.7750 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 106



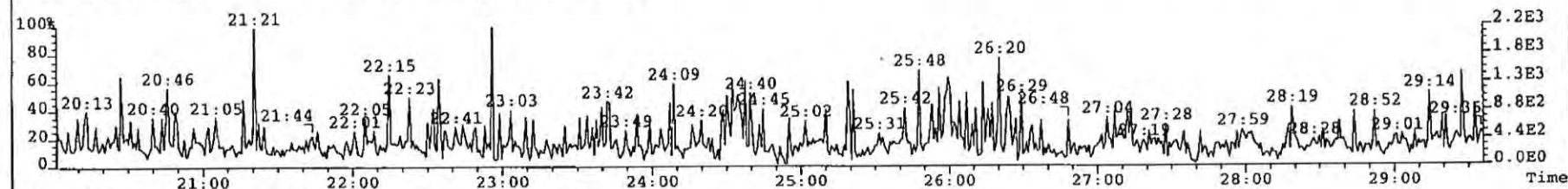
454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



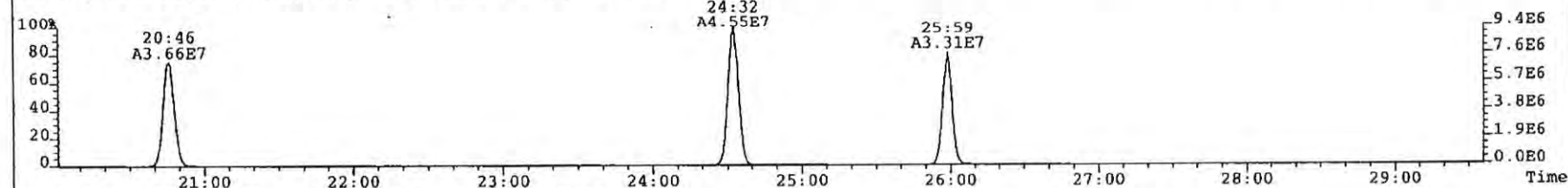
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBL_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
303.9016 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 98



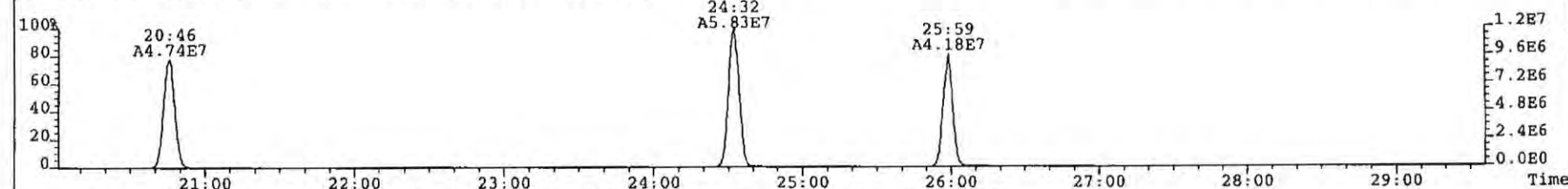
305.8987 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 98



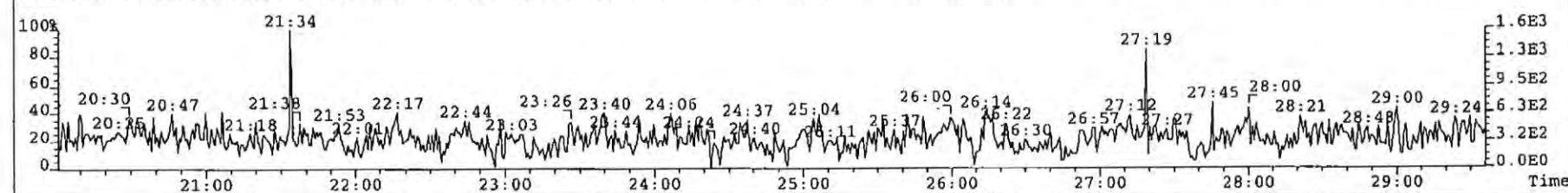
315.9419 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 104



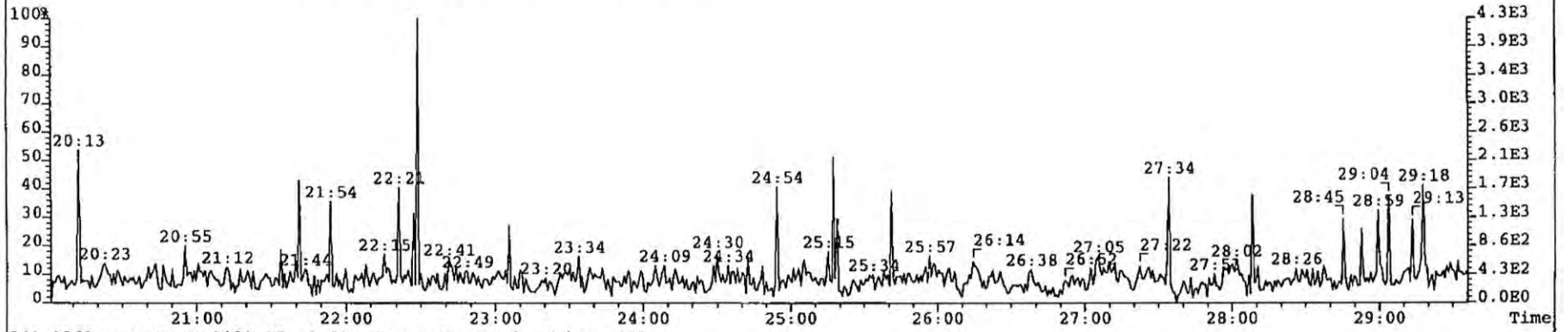
317.9389 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 113



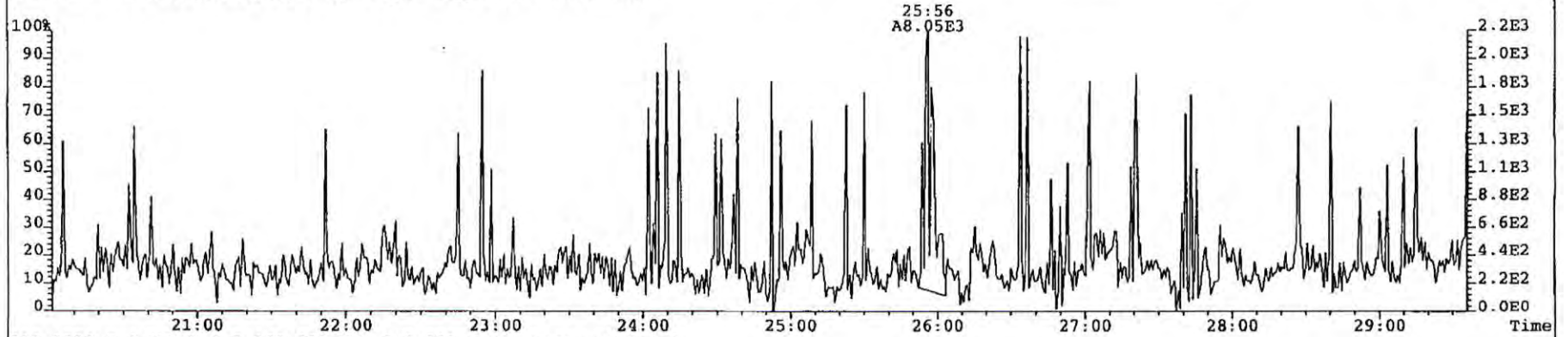
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 109



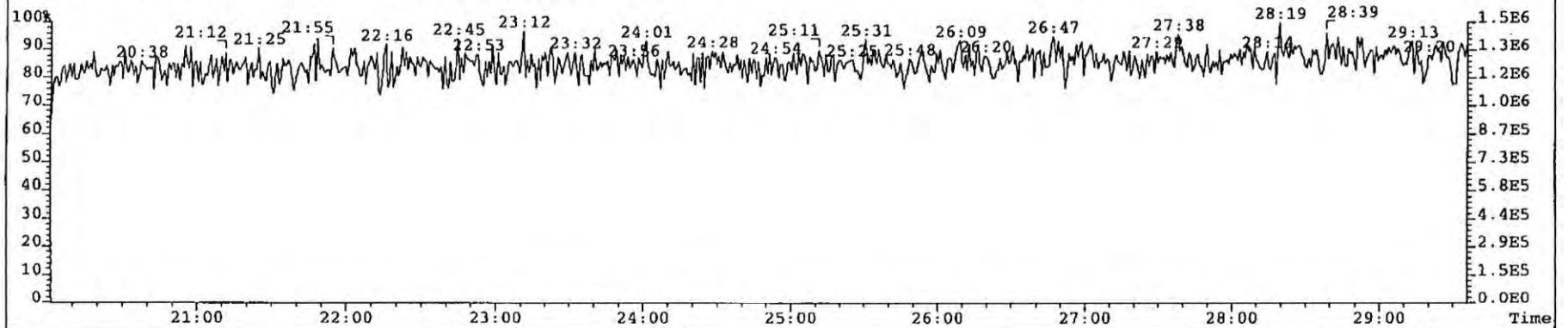
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBI_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
339.8597 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 110



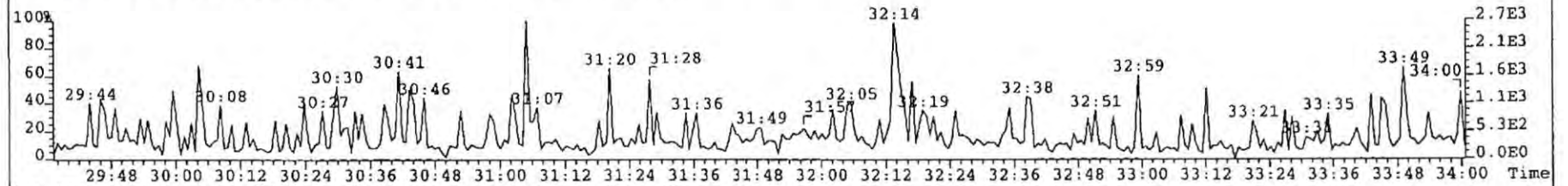
341.8568 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 103



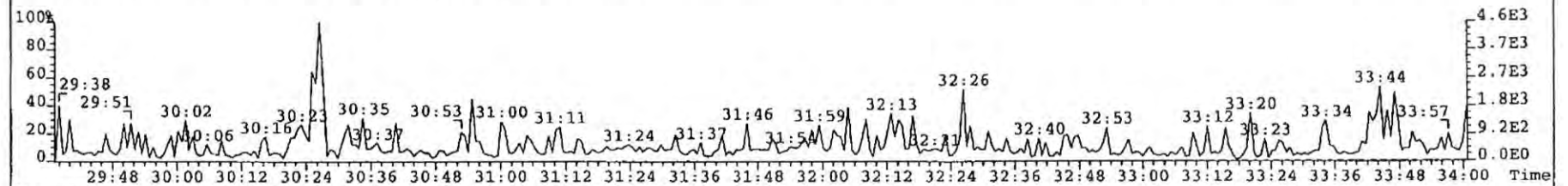
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.000%,F,F) Expt: DF_CL4-8



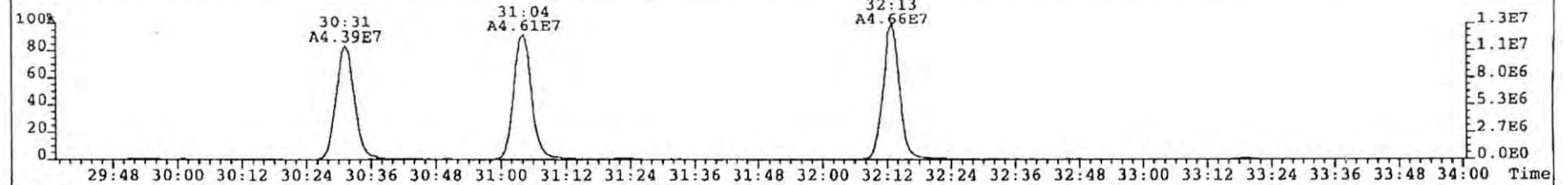
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBL_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 91



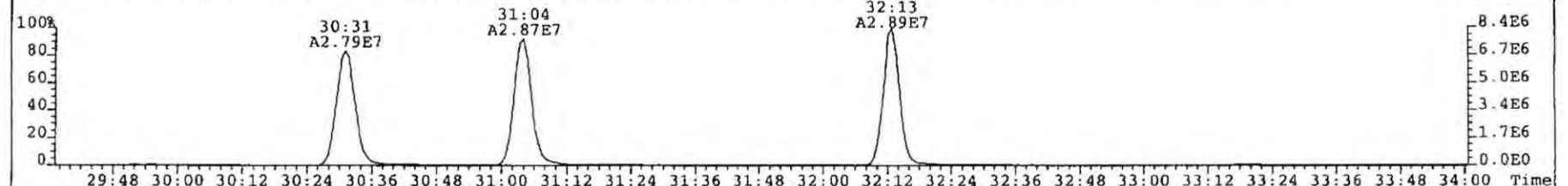
341.8568 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



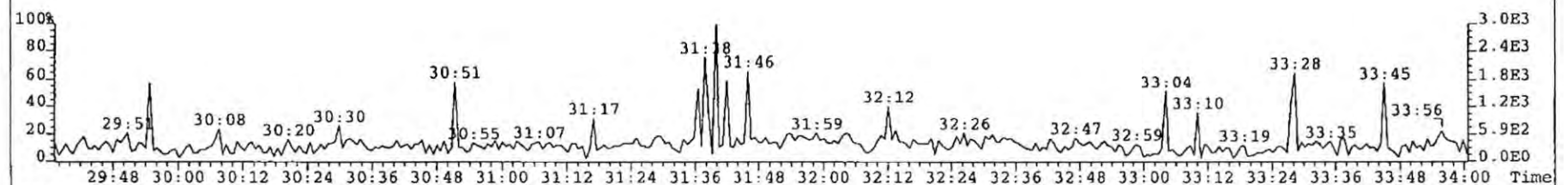
351.9000 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3473



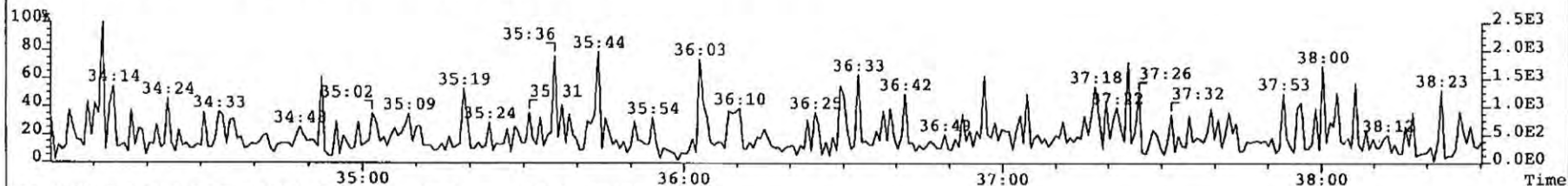
353.8970 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2687



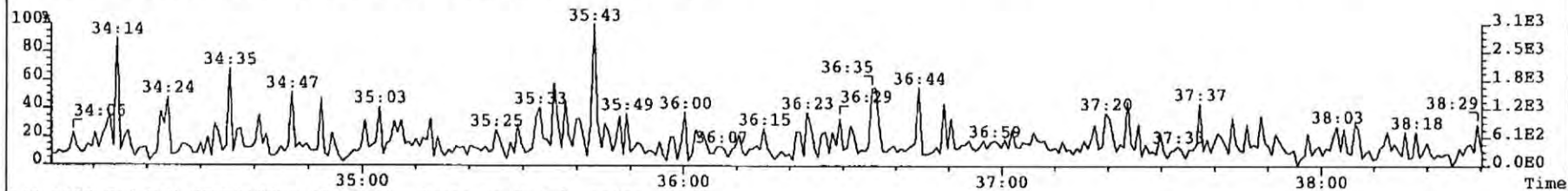
409.7974 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 110



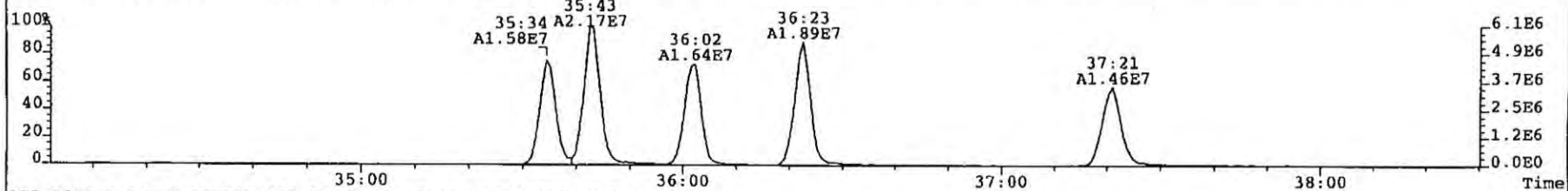
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBI_6630_DF_SDS_0_6630_MB001 Vial# 91 File Text: AP DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 107



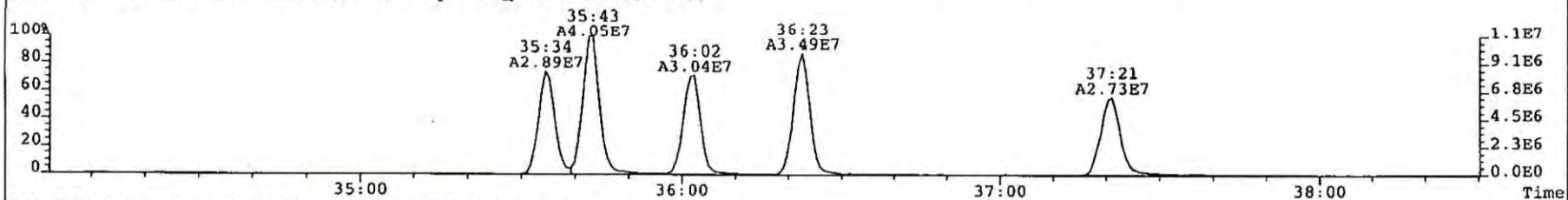
375.8178 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 114



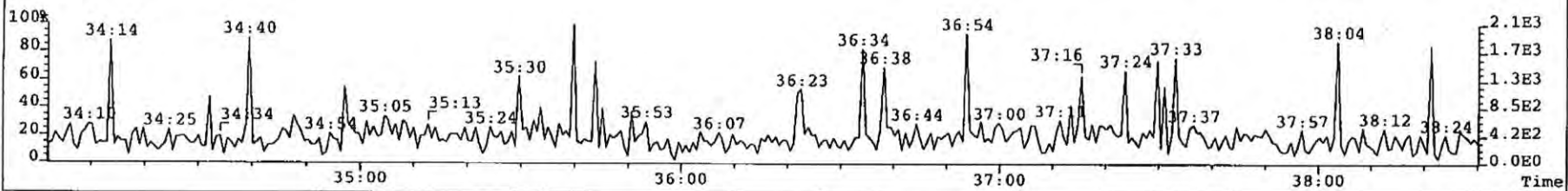
383.8639 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2278



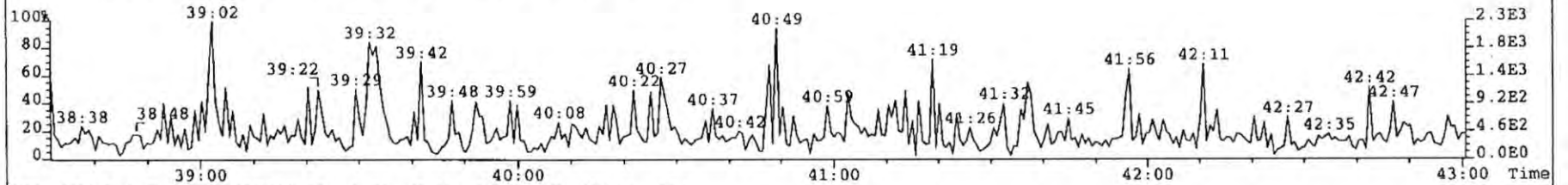
385.8610 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2268



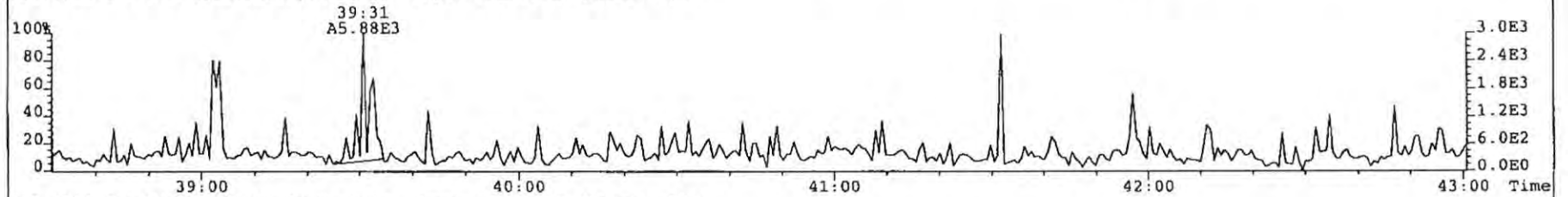
445.7555 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 122



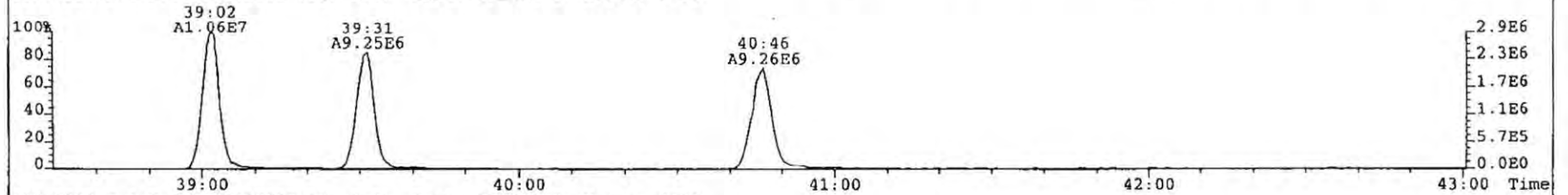
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBL_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 103



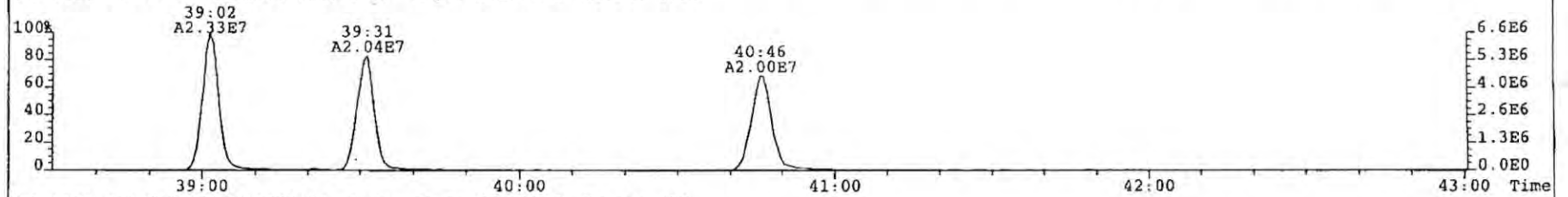
409.7788 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 103



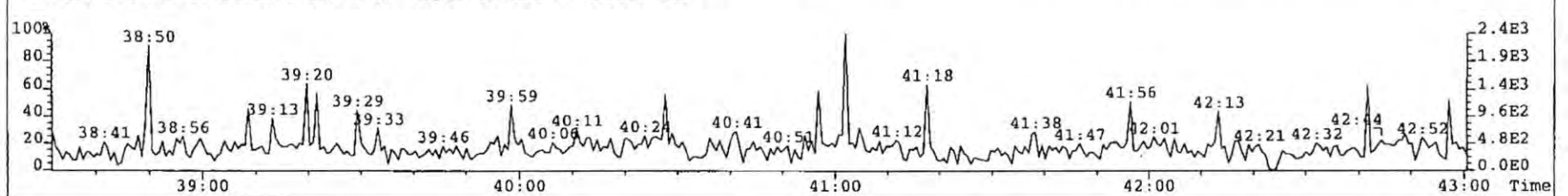
417.8253 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1765



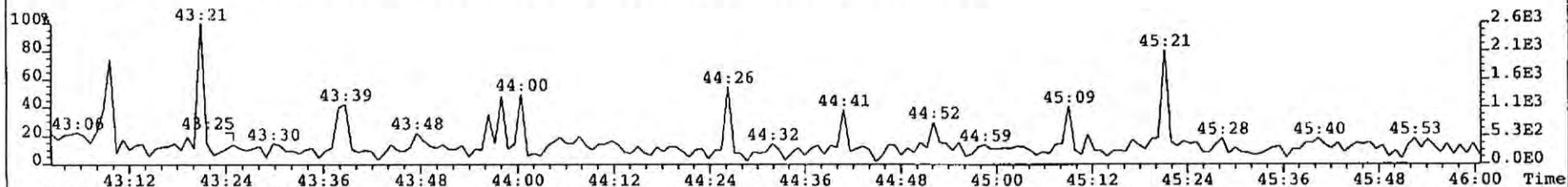
419.8220 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3436



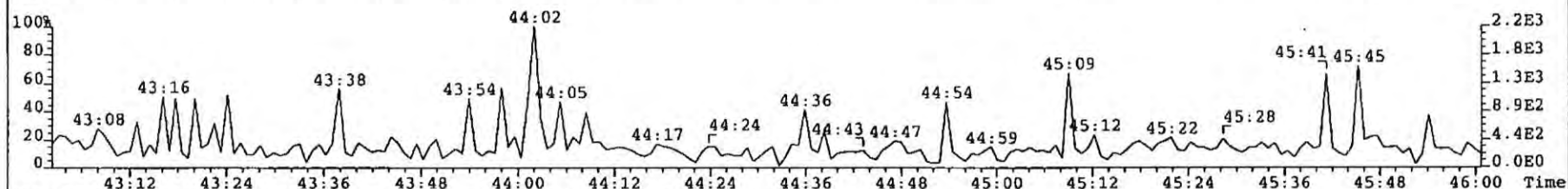
479.7165 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 120



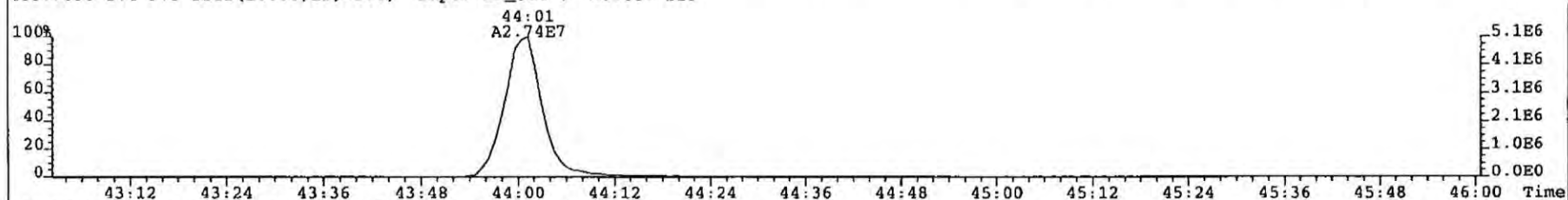
File: 090311P2 Acq: 11-MAR-2009 18:59:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBI_6630_DF_SDS 0_6630_MB001 Vial# 91 File Text: AP DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 98



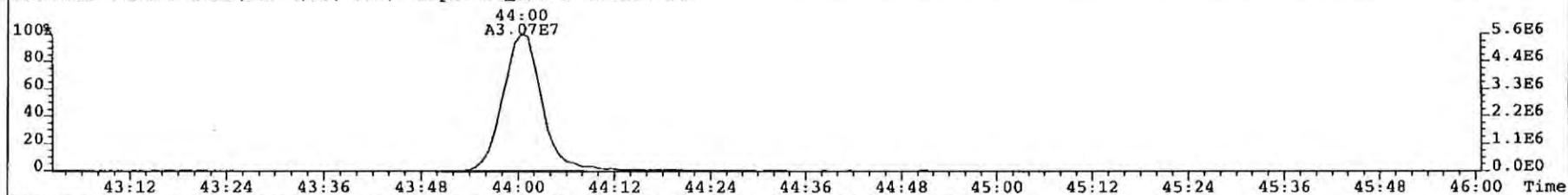
443.7398 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



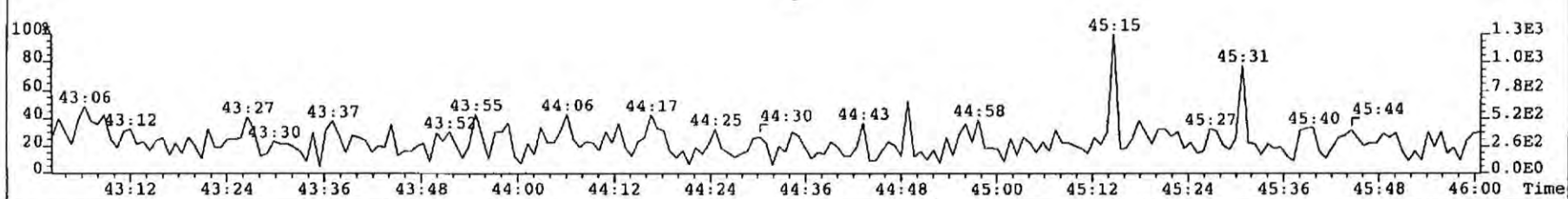
453.7830 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 115



455.7801 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 840



513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 91



1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-BA-24-SS-A-090226 Filename: 090311P2 S: 5 Vial: 93 Acq: 11-MAR-09 19:50:04
 Lab ID: P1158_6630_001 GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08wt/Vol: 10.08
 Sample text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	1.37e+05	0.58 n	26:57	1.08	0.836	693	2.5	0.0808	-
Ax	1,2,3,7,8-PeCDD	6.41e+05	1.64 y	32:35	1.00	5.36	1345	2.5	0.265	-
Ax	1,2,3,4,7,8-HxCDD	1.17e+06	1.20 y	36:33	1.08	10.5	10227	2.5	1.70	-
Ax	1,2,3,6,7,8-HxCDD	5.65e+06	1.25 y	36:40	0.94	52.6	10227	2.5	1.93	-
Ax	1,2,3,7,8,9-HxCDD	2.51e+06	1.26 y	36:59	0.99	21.8	10227	2.5	1.98	-
Ax	1,2,3,4,6,7,8-HpCDD	1.99e+08	1.04 y	40:12	0.97	1770	30418	2.5	5.43	-
Ax	OCDD	1.74e+09	0.90 y	43:47	1.06	18000	46900	2.5	10.9	-
Ax2	OCDD-a	1.04e+08	2.56 y	43:47	0.06	18200	8249	2.5	32.2 -ok	-
Ax	2,3,7,8-TCDF	1.00e+06	0.82 y	26:00	1.05	3.76	1044	2.5	0.0772	-
Ax	1,2,3,7,8-PeCDF	8.09e+05	1.40 y	31:04	0.98	3.93	2674	2.5	0.301	-
Ax	2,3,4,7,8-PeCDF	1.63e+06	1.59 y	32:14	1.01	7.95	2674	2.5	0.308	-
Ax	1,2,3,4,7,8-HxCDF	3.38e+06	1.26 y	35:35	1.22	18.9	5514	2.5	0.419	-
Ax	1,2,3,6,7,8-HxCDF	1.62e+06	1.26 y	35:43	1.15	8.50	5514	2.5	0.412	-
Ax	2,3,4,6,7,8-HxCDF	2.34e+06	1.26 y	36:23	1.13	12.6	5514	2.5	0.422	-
Ax	1,2,3,7,8,9-HxCDF	5.81e+05	1.39 y	37:23	1.12	3.70	5514	2.5	0.548	-
Ax	1,2,3,4,6,7,8-HpCDF	4.86e+07	1.04 y	39:02	1.37	298	5513	2.5	0.438	-
Ax	1,2,3,4,7,8,9-HpCDF	1.91e+06	1.19 y	40:46	1.32	12.5	5513	2.5	0.568	-
Ax	OCDF	7.59e+07	0.90 y	44:01	0.94	673	7229	2.5	1.57	-
Ax2	OCDF-a	4.42e+06	2.76 y	44:01	0.05	697	3057	2.5	11.8	-
ES	13C-2,3,7,8-TCDD	3.00e+07	0.83 y	26:55	0.99	105	1497	2.5	0.106	53.2
ES	13C-1,2,3,7,8-PeCDD	2.38e+07	1.63 y	32:34	0.83	99.4	6875	2.5	0.581	50.1
ES	13C-1,2,3,4,7,8-HxCDD	2.04e+07	1.27 y	36:33	1.08	105	12910	2.5	1.33	53.1
ES	13C-1,2,3,6,7,8-HxCDD	2.26e+07	1.29 y	36:40	1.23	103	12910	2.5	1.17	51.9
ES	13C-1,2,3,7,8,9-HxCDD	2.31e+07	1.27 y	36:58	1.21	107	12910	2.5	1.19	53.7
ES	13C-1,2,3,4,6,7,8-HpCDD	2.28e+07	1.07 y	40:11	0.98	130	7507	2.5	0.850	65.5
ES	13C-OCDD	3.61e+07	0.88 y	43:47	0.66	306	5556	2.5	0.938	77.2
ES	13C-2,3,7,8-TCDF	5.06e+07	0.77 y	25:59	0.96	105	2132	2.5	0.0962	52.8
ES	13C-1,2,3,7,8-PeCDF	4.15e+07	1.60 y	31:03	0.85	96.5	4148	2.5	0.210	48.6
ES	13C-2,3,4,7,8-PeCDF	4.01e+07	1.62 y	32:12	0.88	89.8	4148	2.5	0.203	45.3
ES	13C-1,2,3,4,7,8-HxCDF	2.91e+07	0.53 y	35:34	1.47	111	12377	2.5	0.935	55.7
ES	13C-1,2,3,6,7,8-HxCDF	3.29e+07	0.54 y	35:43	1.78	104	12377	2.5	0.776	52.2
ES	13C-2,3,4,6,7,8-HxCDF	3.27e+07	0.54 y	36:22	1.61	114	12377	2.5	0.856	57.3
ES	13C-1,2,3,7,8,9-HxCDF	2.79e+07	0.53 y	37:20	1.40	112	12377	2.5	0.984	56.3
ES	13C-1,2,3,4,6,7,8-HpCDF	2.37e+07	0.47 y	39:01	1.16	114	8201	2.5	0.787	57.7
ES	13C-1,2,3,4,7,8,9-HpCDF	2.29e+07	0.45 y	40:46	0.92	139	8201	2.5	0.992	70.1
ES	13C-OCDF	4.77e+07	0.89 y	44:00	1.04	257	6696	2.5	0.719	64.8
CS	37Cl-2,3,7,8-TCDD	1.34e+07		26:57	0.99	47.3			0.0934	59.5
CS	13C-1,2,3,4,7-PeCDD	2.33e+07	1.64 y	32:03	0.77	106	6875	2.5	0.630	53.3
CS	13C-1,2,3,4,6-PeCDF	4.51e+07	1.60 y	30:30	0.79	113	4148	2.5	0.225	56.8
CS	13C-1,2,3,4,6,9-HxCDF	3.13e+07	0.53 y	36:01	1.41	124	12377	2.5	0.976	62.6
CS	13C-1,2,3,4,6,8,9-HpCDF	2.47e+07	0.46 y	39:31	0.91	152	8201	2.5	1.00	76.5
NA	n/a	*	* n	NotF*	Div0	*	1201	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.69e+07	0.82 y	26:14	-	16.1	1497	2.5	-	-
JS	13C-1,2,3,4-TCDF	1.00e+08	0.77 y	24:32	-	17.9	2132	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.77e+07	1.29 y	36:52	-	8.08	1276	2.5	-	-

Analyst: 

Date: 24 Mar

24 March 09

SS	37Cl-2,3,7,8-TCDD	1.34e+07		26:57	1.00	88.4		0.165	111	} <i>no</i>
SS	13C-1,2,3,4,7-PeCDD	2.33e+07	1.64 y	32:03	0.93	210	6875 2.5	1.45	106	
SS	13C-1,2,3,4,6-PeCDF	4.51e+07	1.60 y	30:30	0.94	230	4148 2.5	0.491	116	
SS	13C-1,2,3,4,6,9-HxCDF	3.13e+07	0.53 y	36:01	0.80	236	12377 2.5	1.33	119	
SS	13C-1,2,3,4,6,8,9-HpCDF	2.47e+07	0.46 y	39:31	0.79	261	8201 2.5	1.12	131	
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	1044 2.5	0.0772	-	
Ay	1,3,6,8-TCDD	2.26e+06	0.82 y	22:58	1.08	13.8	693 2.5	0.0808	-	
Ay	1,2,3,9-TCDD	3.28e+04	1.22 n	26:48	1.08	0.200	693 2.5	0.0808	-	
Ay	1,2,8,9-TCDD	2.86e+04	0.54 n	28:00	1.08	0.175	693 2.5	0.0808	-	
Ay	1,2,4,7,9-PeCDD	2.87e+06	1.60 y	30:00	1.00	24.0	1345 2.5	0.265	-	
Ay	1,2,3,8,9-PeCDD	1.89e+05	1.50 y	33:02	1.00	1.58	1345 2.5	0.265	-	
Ay	1,2,4,6,7,9-HxCDD	3.29e+07	1.24 y	34:51	1.00	295	10227 2.5	1.87	-	
Ay	1,2,3,4,6,7,9-HpCDD	7.03e+08	1.05 y	39:21	0.97	6280	30418 2.5	5.43	-	
Ay	1,3,6,8-TCDF	4.95e+05	0.86 y	20:47	1.05	1.86	1044 2.5	0.0772	-	
Ay	2,3,4,8-TCDF	3.25e+05	0.67 y	25:52	1.05	1.22	1044 2.5	0.0772	-	
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	1044 2.5	0.0772	-	
Ay	1,3,4,6,8-PeCDF	8.44e+06	1.66 y	28:10	1.05	31.7	355 2.5	0.0263	-	
Ay	1,2,3,8,9-PeCDF	8.86e+04	1.35 y	33:19	1.00	0.431	2674 2.5	0.305	-	
Ay	1,2,3,4,6,8-HxCDF	6.52e+06	1.27 y	34:11	1.15	36.6	5514 2.5	0.446	-	
Tot	Total Tetra-Dioxins	5.95e+06	0.82 y	22:58	1.08	36.3	693 2.5	0.0808	-	
Tot	Total Penta-Dioxins	9.58e+06	1.60 y	30:00	1.00	80.0	1345 2.5	0.265	-	
Tot	Total Hexa-Dioxins	8.19e+07	1.24 y	34:51	1.00	737	10227 2.5	1.87	-	
Tot	Total Hepta-Dioxins	9.02e+08	1.05 y	39:21	0.97	8060	30418 2.5	5.43	-	
Tot	Total Tetra-Furans	1.53e+07	0.86 y	20:47	1.05	57.3	1044 2.5	0.0772	-	
Tot	Total Penta-Furans	1.23e+07	1.63 y	29:46	1.00	60.0	2674 2.5	0.305	-	
Tot	Total Hexa-Furans	6.55e+07	1.27 y	34:11	1.15	367	5514 2.5	0.446	-	
Tot	Total Hepta-Furans	1.39e+08	1.04 y	39:02	1.35	871	5513 2.5	0.500	-	
Tot	TCDD EMPC	6.73e+06	0.82 y	22:58	1.08	41.0	693 2.5	0.0808	-	
Tot	PeCDD EMPC	9.72e+06	1.60 y	30:00	1.00	81.2	1345 2.5	0.265	-	
Tot	HxCDD EMPC	8.19e+07	1.24 y	34:51	1.00	737	10227 2.5	1.87	-	
Tot	HpCDD EMPC	9.02e+08	1.05 y	39:21	0.97	8060	30418 2.5	5.43	-	
Tot	TCDF EMPC	1.57e+07	0.86 y	20:47	1.05	58.8	1044 2.5	0.0772	-	
Tot	PeCDF EMPC	1.23e+07	1.63 y	29:46	1.00	60.0	2674 2.5	0.305	-	
Tot	HxCDF EMPC	6.55e+07	1.27 y	34:11	1.15	367	5514 2.5	0.446	-	
Tot	HpCDF EMPC	1.39e+08	1.04 y	39:02	1.35	871	5513 2.5	0.500	-	
AS	13C-1,3,6,8-TCDD	3.24e+07	0.84 y	22:57	1.09	104	1497 2.5	0.0972	52.4	
AS	13C-1,3,6,8-TCDF	6.17e+07	0.78 y	20:46	1.09	112	2132 2.5	0.0845	56.6	
DPE	HxCDFE	*		NotF»	-	*		-	-	
DPE	HpCDFE	*		NotF»	-	*		-	-	
DPE	OCDFE	*		NotF»	-	*		-	-	
DPE	NCDPE	*		NotF»	-	*		-	-	
DPE	DCDFE	*		NotF»	-	*		-	-	
LMC	Fn1 check mass	*		NotF»	-	*		-	-	
LMC	Fn2 check mass	*		NotF»	-	*		-	-	
LMC	Fn3 check mass	*		NotF»	-	*		-	-	
LMC	Fn4 check mass	*		NotF»	-	*		-	-	
LMC	Fn5 check mass	*		NotF»	-	*		-	-	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 12 Checkcode: 4320
 File Name: 090311P2 Sample #: 5 Sample text: P1158_6630_001 PO-BA-24-SS-A-090226 10.»

Acquired: 11-MAR-09 19:50:04 Processed: 19-MAR-09 17:26:04

Total Conc.: 41.024 Unnamed Conc.: 26.010 Homolog count: 17

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
22:58	1.018e+06	n	1.245e+06	n	0.82 y	2.263e+06	2.263e+06	3.40e+02 y	13.8	1,3,6,8-TCDD
23:23	6.841e+05	n	9.010e+05	n	0.76 y	1.585e+06	1.585e+06	2.47e+02 y	9.67	
23:51	6.308e+04	n	9.136e+04	n	0.69 y	1.544e+05	1.544e+05	2.58e+01 y	0.942	
24:43	6.353e+04	n	7.934e+04	n	0.80 y	1.429e+05	1.429e+05	2.48e+01 y	0.871	
24:58	1.692e+05	n	2.025e+05	n	0.84 y	3.717e+05	3.717e+05	6.29e+01 y	2.27	
25:11	1.973e+05	n	2.569e+05	n	0.77 y	4.543e+05	4.543e+05	7.64e+01 y	2.77	
25:23	6.287e+04	n	6.633e+04	n	0.95 n	1.292e+05	1.174e+05	2.37e+01 y	0.716	
25:39	2.626e+04	n	3.500e+04	n	0.75 y	6.125e+04	6.125e+04	9.96e+00 y	0.374	
25:50	5.633e+04	n	8.865e+04	n	0.64 n	1.450e+05	1.295e+05	3.35e+01 y	0.790	
26:15	1.537e+05	n	1.687e+05	n	0.91 n	3.225e+05	2.987e+05	5.93e+01 y	1.82	
26:24	1.510e+04	n	2.720e+04	n	0.56 n	4.230e+04	3.471e+04	1.25e+01 y	0.212	
26:39	3.468e+05	n	4.217e+05	n	0.82 y	7.685e+05	7.685e+05	1.16e+02 y	4.69	
26:48	2.270e+04	n	1.854e+04	n	1.22 n	4.124e+04	3.282e+04	7.56e+00 y	0.200	1,2,3,9-TCDD
26:57	5.962e+04	n	1.022e+05	n	0.58 n	1.618e+05	1.370e+05	4.06e+01 y	0.836	2,3,7,8-TCDD
27:18	4.999e+04	n	6.546e+04	n	0.76 y	1.154e+05	1.154e+05	3.15e+01 y	0.704	
27:27	1.399e+04	n	1.653e+04	n	0.85 y	3.052e+04	3.052e+04	8.32e+00 y	0.186	
28:00	1.245e+04	n	2.302e+04	n	0.54 n	3.547e+04	2.861e+04	7.49e+00 y	0.175	1,2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 12 Checkcode: 4320
 File Name: 090311P2 Sample #: 5 Sample text: P1158_6630_001 PO-BA-24-SS-A-090226 10.»

Acquired: 11-MAR-09 19:50:04 Processed: 19-MAR-09 17:26:04

Total Conc.: 81.234 Unnamed Conc.: 50.317 Homolog count: 10

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:00	1.765e+06	n	1.104e+06	y	1.60 y	2.869e+06	2.869e+06	1.39e+02 y	24.0	1,2,4,7,9-PeCDD
30:33	6.705e+05	n	3.900e+05	n	1.72 y	1.061e+06	1.061e+06	8.37e+01 y	8.86	
31:07	9.629e+05	n	6.007e+05	n	1.60 y	1.564e+06	1.564e+06	1.25e+02 y	13.1	
31:18	4.724e+05	y	2.819e+05	y	1.68 y	7.542e+05	7.542e+05	5.82e+01 y	6.30	
31:25	6.969e+05	y	4.515e+05	y	1.54 y	1.148e+06	1.148e+06	8.99e+01 y	9.60	
31:40	5.429e+05	n	3.231e+05	n	1.68 y	8.660e+05	8.660e+05	5.41e+01 y	7.24	
32:04	2.972e+05	y	1.869e+05	n	1.59 y	4.841e+05	4.841e+05	4.56e+01 y	4.05	
32:35	3.989e+05	y	2.425e+05	y	1.64 y	6.414e+05	6.414e+05	5.04e+01 y	5.36	1,2,3,7,8-PeCDD
32:47	8.706e+04	y	7.954e+04	y	1.09 n	1.666e+05	1.432e+05	1.57e+01 y	1.20	
33:08	1.134e+05	n	7.538e+04	y	1.50 y	1.887e+05	1.887e+05	1.90e+01 y	1.58	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 12 Checkcode: 4320
 File Name: 090311P2 Sample #: 5 Sample text: P1158_6630_001 PO-BA-24-SS-A-090226 10.»

Acquired: 11-MAR-09 19:50:04 Processed: 19-MAR-09 17:26:04

Total Conc.: 736.56 Unnamed Conc.: 356.478 Homolog count: 8

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:51	1.821e+07	n	1.465e+07	n	1.24 y	3.287e+07	3.287e+07	4.38e+02	y	295 1,2,4,6,7,9-HxCDD
35:31	4.051e+06	n	3.239e+06	n	1.25 y	7.291e+06	7.291e+06	9.35e+01	y	65.5
35:48	1.293e+07	n	1.024e+07	n	1.26 y	2.317e+07	2.317e+07	2.20e+02	y	208
35:56	4.282e+06	n	3.380e+06	n	1.27 y	7.662e+06	7.662e+06	9.52e+01	y	68.8
36:33	6.354e+05	n	5.296e+05	n	1.20 y	1.165e+06	1.165e+06	1.60e+01	y	10.5 1,2,3,4,7,8-HxCDD
36:40	3.146e+06	n	2.507e+06	n	1.25 y	5.653e+06	5.653e+06	6.70e+01	y	52.6 1,2,3,6,7,8-HxCDD
36:52	8.713e+05	n	6.913e+05	n	1.26 y	1.563e+06	1.563e+06	1.86e+01	y	14.0
36:59	1.404e+06	n	1.111e+06	n	1.26 y	2.515e+06	2.515e+06	2.75e+01	y	21.8 1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: HpCDD EMPC Function: 4 Run #: 12 Checkcode: 4320
 File Name: 090311P2 Sample #: 5 Sample text: P1158_6630_001 PO-BA-24-SS-A-090226 10.»

Acquired: 11-MAR-09 19:50:04 Processed: 19-MAR-09 17:26:04

Total Conc.: 8055.4 Unnamed Conc.: * Homolog count: 2 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:21	3.597e+08	n	3.437e+08	n	1.05 y	7.034e+08	7.034e+08	3.11e+03	y	6280 1,2,3,4,6,7,9-HpCDD
40:12	1.010e+08	n	9.752e+07	n	1.04 y	1.986e+08	1.986e+08	8.05e+02	y	1770 1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: TCDF EMPC Function: 1 Run #: 12 Checkcode: 4320
 File Name: 090311P2 Sample #: 5 Sample text: P1158_6630_001 PO-BA-24-SS-A-090226 10.»

Acquired: 11-MAR-09 19:50:04 Processed: 19-MAR-09 17:26:04

Total Conc.: 58.804 Unnamed Conc.: 51.963 Homolog count: 21 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
20:47	2.286e+05	n	2.669e+05	n	0.86 y	4.955e+05	4.955e+05	5.17e+01	y	1.86 1,3,6,8-TCDF
21:20	2.911e+05	n	3.533e+05	n	0.82 y	6.444e+05	6.444e+05	6.57e+01	y	2.42
21:58	6.988e+05	n	9.126e+05	n	0.77 y	1.611e+06	1.611e+06	1.53e+02	y	6.04
22:31	8.122e+05	n	1.035e+06	n	0.78 y	1.847e+06	1.847e+06	1.13e+02	y	6.93
22:56	7.657e+05	n	9.905e+05	n	0.77 y	1.756e+06	1.756e+06	1.23e+02	y	6.59
23:24	4.725e+05	y	6.074e+05	y	0.78 y	1.080e+06	1.080e+06	1.11e+02	y	4.05
23:33	1.547e+05	y	1.928e+05	y	0.80 y	3.475e+05	3.475e+05	3.92e+01	y	1.30
23:43	3.045e+05	y	3.757e+05	y	0.81 y	6.802e+05	6.802e+05	6.90e+01	y	2.55
24:08	1.494e+05	y	1.617e+05	y	0.92 n	3.111e+05	2.862e+05	3.16e+01	y	1.07
24:17	2.263e+05	y	2.728e+05	y	0.83 y	4.991e+05	4.991e+05	5.38e+01	y	1.87
24:26	5.299e+05	y	6.333e+05	y	0.84 y	1.163e+06	1.163e+06	1.09e+02	y	4.36
24:34	3.312e+05	y	4.037e+05	y	0.82 y	7.349e+05	7.349e+05	6.86e+01	y	2.76
25:03	4.500e+05	n	5.666e+05	y	0.79 y	1.017e+06	1.017e+06	1.20e+02	y	3.81
25:20	1.760e+05	n	2.031e+05	n	0.87 y	3.791e+05	3.791e+05	4.32e+01	y	1.42
25:33	1.137e+05	y	1.299e+05	n	0.88 y	2.436e+05	2.436e+05	2.45e+01	y	0.913
25:45	1.380e+05	y	1.646e+05	y	0.84 y	3.026e+05	3.026e+05	3.58e+01	y	1.13
25:52	1.307e+05	y	1.948e+05	y	0.67 y	3.255e+05	3.255e+05	3.97e+01	y	1.22 2,3,4,8-TCDF
26:00	4.531e+05	y	5.500e+05	y	0.82 y	1.003e+06	1.003e+06	1.26e+02	y	3.76 2,3,7,8-TCDF
26:23	4.946e+05	n	6.153e+05	n	0.80 y	1.110e+06	1.110e+06	1.25e+02	y	4.16
26:40	5.196e+04	y	5.822e+04	n	0.89 n	1.102e+05	1.030e+05	1.55e+01	y	0.386
26:57	2.100e+04	n	3.039e+04	y	0.69 y	5.139e+04	5.139e+04	7.56e+00	y	0.193
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: PeCDF EMPC Function: 2 Run #: 12 Checkcode: 4320
 File Name: 090311P2 Sample #: 5 Sample text: P1158_6630_001 PO-BA-24-SS-A-090226 10.*

Acquired: 11-MAR-09 19:50:04 Processed: 19-MAR-09 17:26:04

Total Conc.: 60.049 Unnamed Conc.: 47.745 Homolog count: 10 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
29:46	5.717e+05	n	3.518e+05	n	1.63 y	9.235e+05	9.235e+05	2.87e+01	y	4.49
29:56	3.244e+06	n	2.000e+06	n	1.62 y	5.244e+06	5.244e+06	1.55e+02	y	25.5
30:22	1.402e+05	n	9.676e+04	n	1.45 y	2.369e+05	2.369e+05	7.93e+00	y	1.15
30:37	1.035e+06	n	6.898e+05	n	1.50 y	1.725e+06	1.725e+06	5.07e+01	y	8.40
30:52	2.493e+05	n	1.556e+05	n	1.60 y	4.050e+05	4.050e+05	1.68e+01	y	1.97
31:04	4.718e+05	n	3.376e+05	n	1.40 y	8.094e+05	8.094e+05	3.41e+01	y	3.93 1,2,3,7,8-PeCDF
31:22	5.917e+05	n	3.509e+05	n	1.69 y	9.426e+05	9.426e+05	3.00e+01	y	4.59
32:06	2.041e+05	n	1.280e+05	n	1.59 y	3.321e+05	3.321e+05	1.53e+01	y	1.62
32:17	9.982e+05	n	6.277e+05	n	1.59 y	1.626e+06	1.626e+06	4.77e+01	y	7.95 2,3,4,7,8-PeCDF
33:19	5.086e+04	n	3.777e+04	n	1.35 y	8.862e+04	8.862e+04	4.61e+00	y	0.431 1,2,3,8,9-PeCDF

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDF EMPC Function: 3 Run #: 12 Checkcode: 4320
 File Name: 090311P2 Sample #: 5 Sample text: P1158_6630_001 PO-BA-24-SS-A-090226 10.*

Acquired: 11-MAR-09 19:50:04 Processed: 19-MAR-09 17:26:04

Total Conc.: 366.79 Unnamed Conc.: 286.570 Homolog count: 10 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:11	3.648e+06	n	2.871e+06	n	1.27 y	6.519e+06	6.519e+06	1.57e+02	y	36.6 1,2,3,4,6,8-HxCDF
34:23	1.181e+07	n	9.356e+06	n	1.26 y	2.117e+07	2.117e+07	5.21e+02	y	119
34:49	4.374e+05	n	3.719e+05	n	1.18 y	8.093e+05	8.093e+05	1.78e+01	y	4.54
35:02	1.577e+07	n	1.243e+07	n	1.27 y	2.819e+07	2.819e+07	6.67e+02	y	158
35:28	3.076e+05	n	2.680e+05	n	1.15 y	5.757e+05	5.757e+05	1.41e+01	y	3.23
35:35	1.885e+06	n	1.495e+06	n	1.26 y	3.380e+06	3.380e+06	7.89e+01	y	18.9 1,2,3,4,7,8-HxCDF
35:43	9.028e+05	n	7.174e+05	n	1.26 y	1.620e+06	1.620e+06	3.38e+01	y	8.50 1,2,3,6,7,8-HxCDF
36:02	1.974e+05	n	1.467e+05	n	1.35 y	3.442e+05	3.442e+05	1.02e+01	y	1.93
36:23	1.303e+06	n	1.037e+06	n	1.26 y	2.340e+06	2.340e+06	5.10e+01	y	12.6 2,3,4,6,7,8-HxCDF
37:23	3.376e+05	n	2.436e+05	n	1.39 y	5.812e+05	5.812e+05	1.07e+01	y	3.70 1,2,3,7,8,9-HxCDF

Totals Results Analytical Perspectives [Form: TOT]

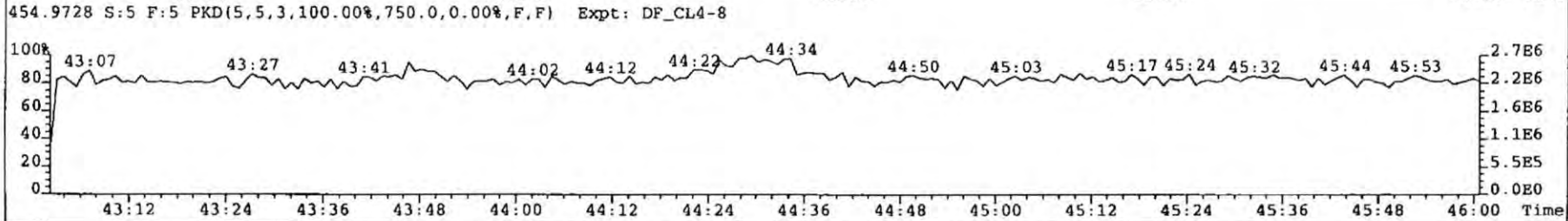
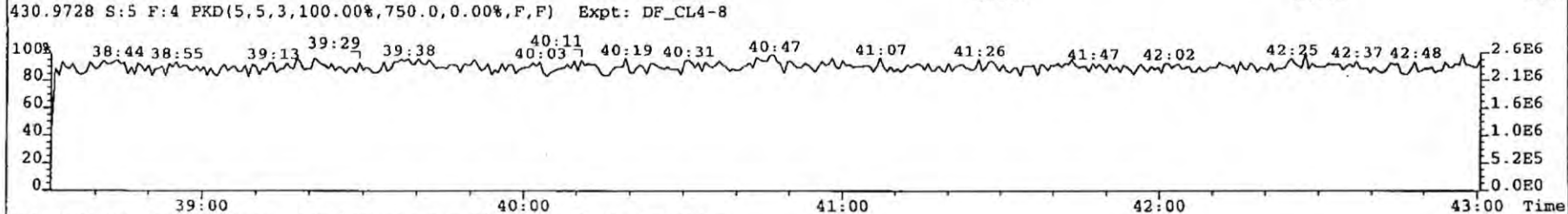
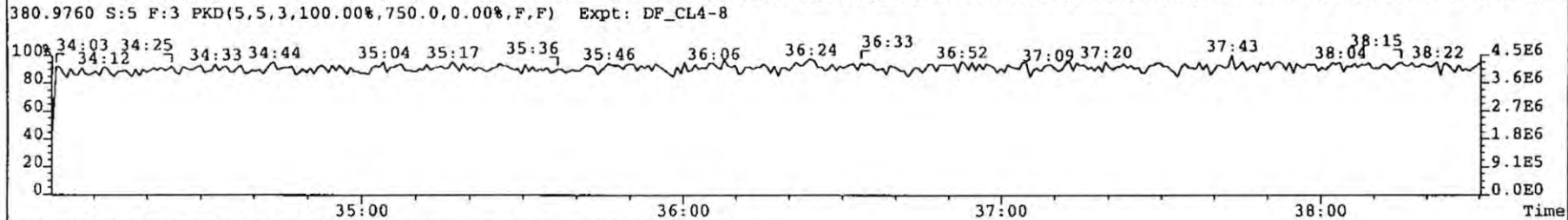
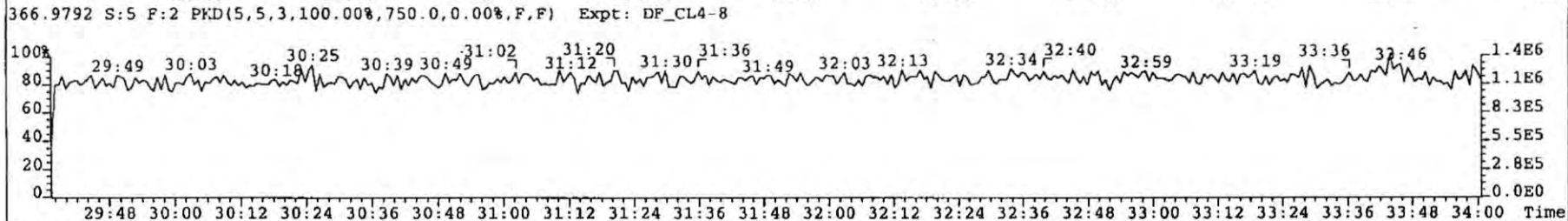
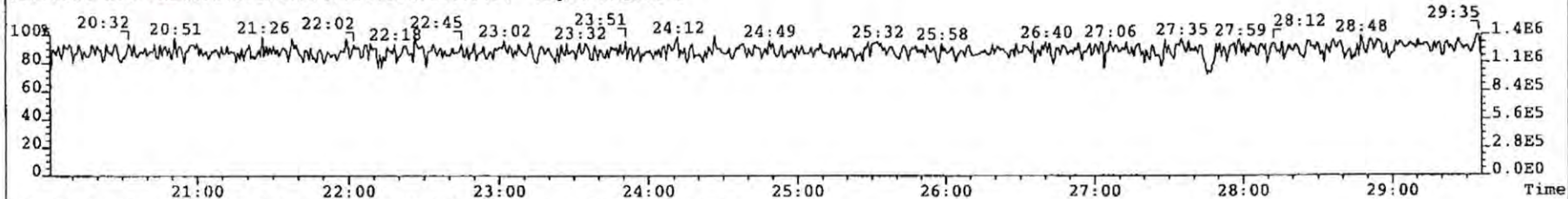
Totals class: HpCDF EMPC Function: 4 Run #: 12 Checkcode: 4320
 File Name: 090311P2 Sample #: 5 Sample text: P1158_6630_001 PO-BA-24-SS-A-090226 10.*

Acquired: 11-MAR-09 19:50:04 Processed: 19-MAR-09 17:26:04

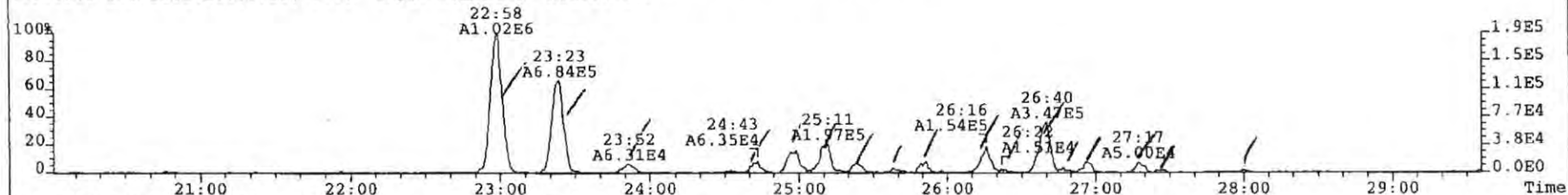
Total Conc.: 871.18 Unnamed Conc.: 561.055 Homolog count: 4 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:02	2.481e+07	n	2.379e+07	n	1.04 y	4.860e+07	4.860e+07	1.23e+03	y	298 1,2,3,4,6,7,8-HpCDF
39:21	8.804e+05	n	8.556e+05	n	1.03 y	1.736e+06	1.736e+06	3.80e+01	y	11.0
39:31	4.438e+07	n	4.265e+07	n	1.04 y	8.702e+07	8.702e+07	2.06e+03	y	550
40:46	1.038e+06	n	8.729e+05	n	1.19 y	1.911e+06	1.911e+06	3.98e+01	y	12.5 1,2,3,4,7,8,9-HpCDF

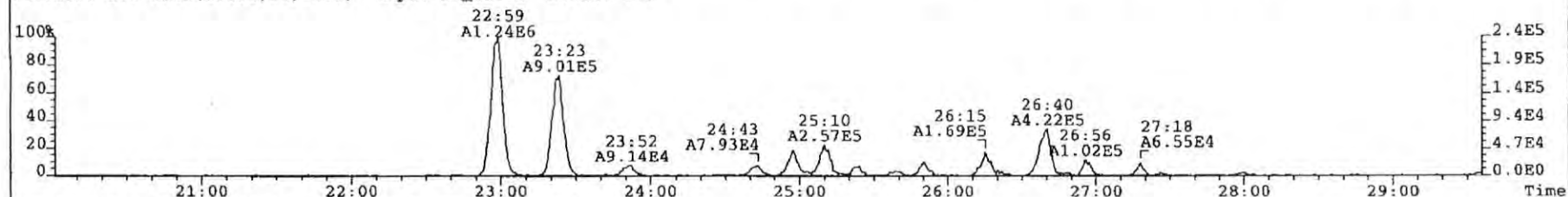
File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



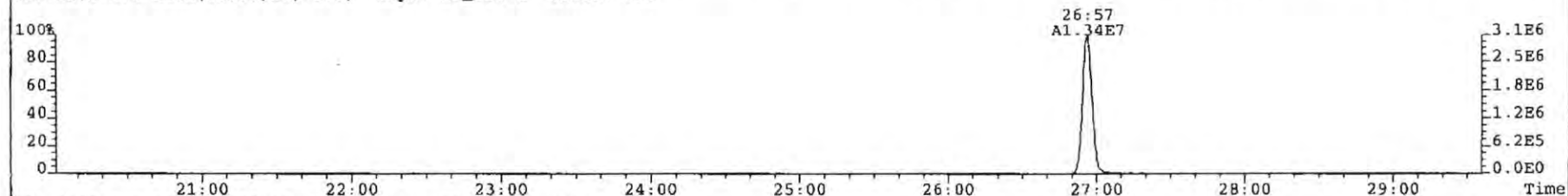
File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
319.8965 S:5 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 123



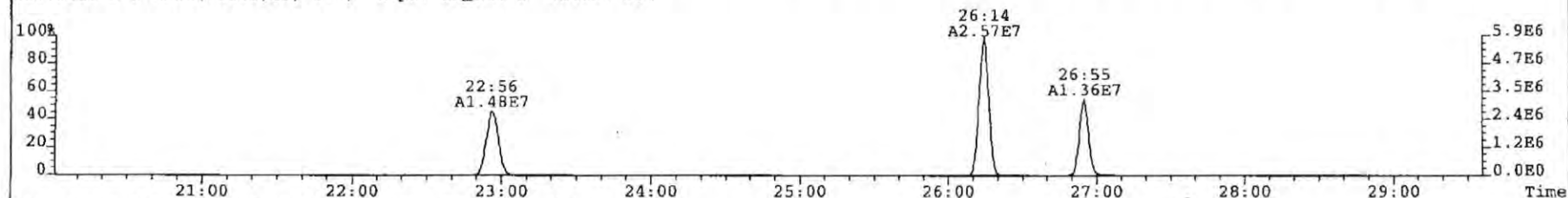
321.8936 S:5 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 118



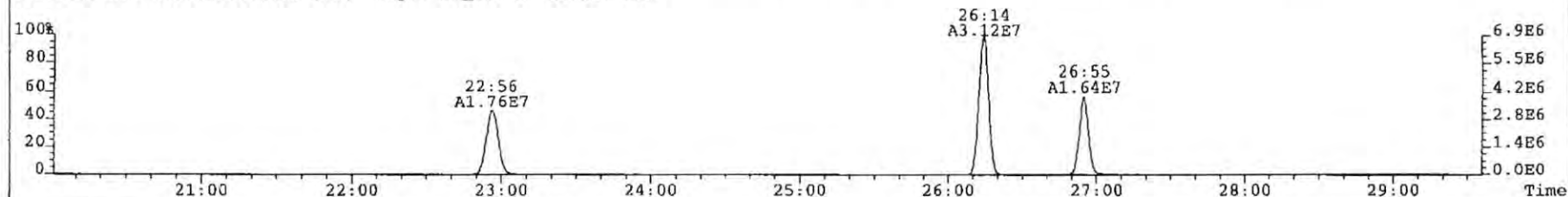
327.8850 S:5 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 124



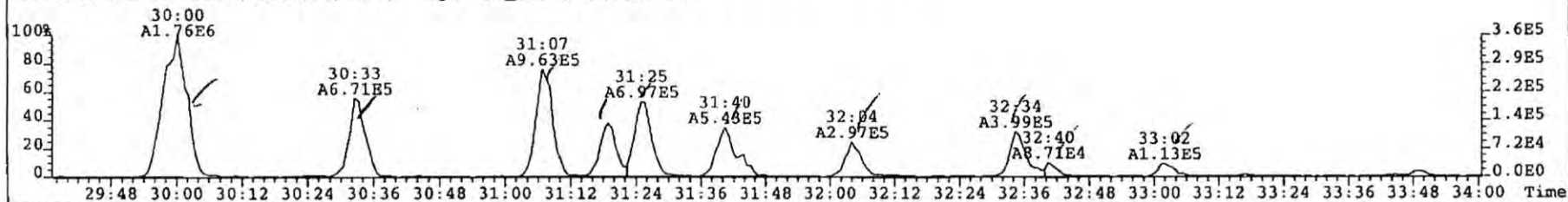
331.9368 S:5 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 133



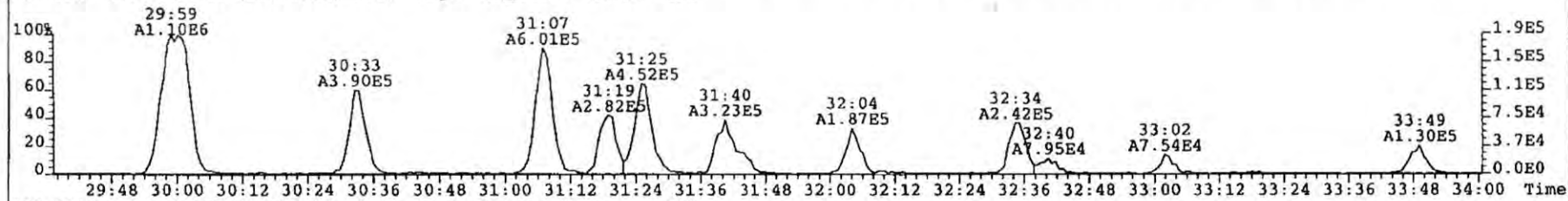
333.9339 S:5 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 129



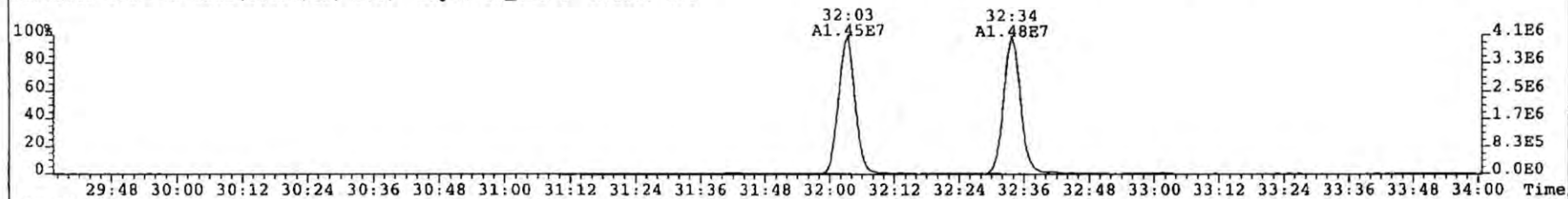
File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaB
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
355.8546 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 344



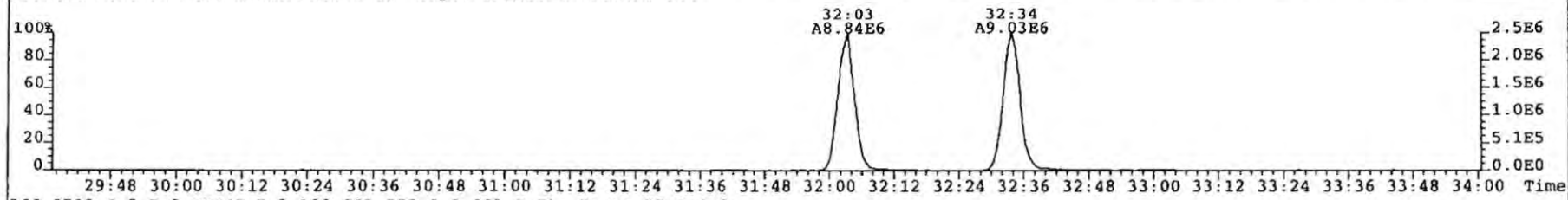
357.8517 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 222



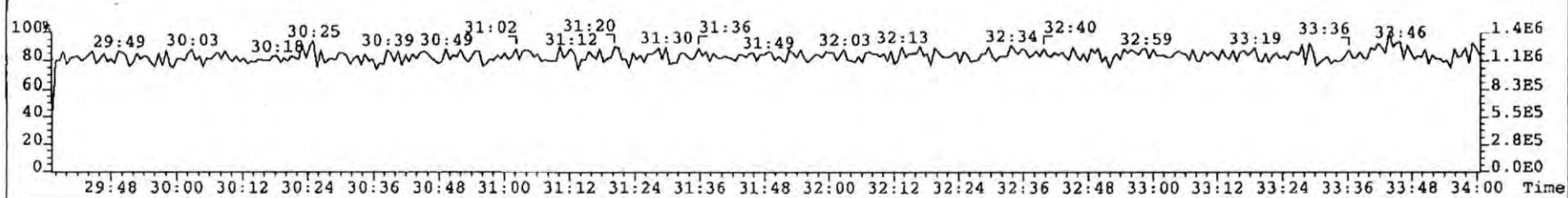
367.8949 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 118



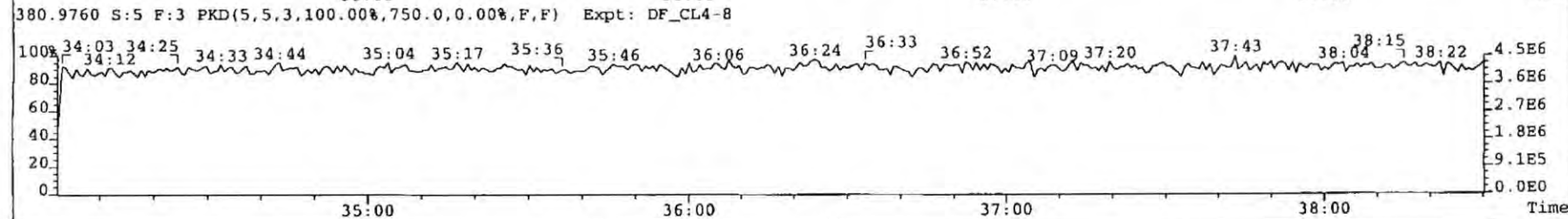
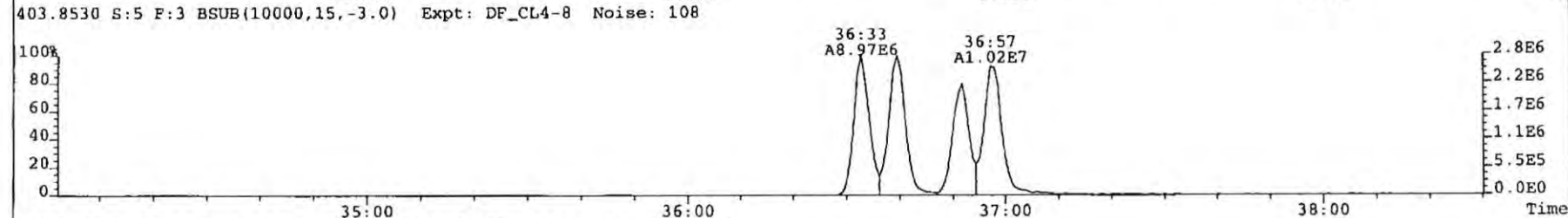
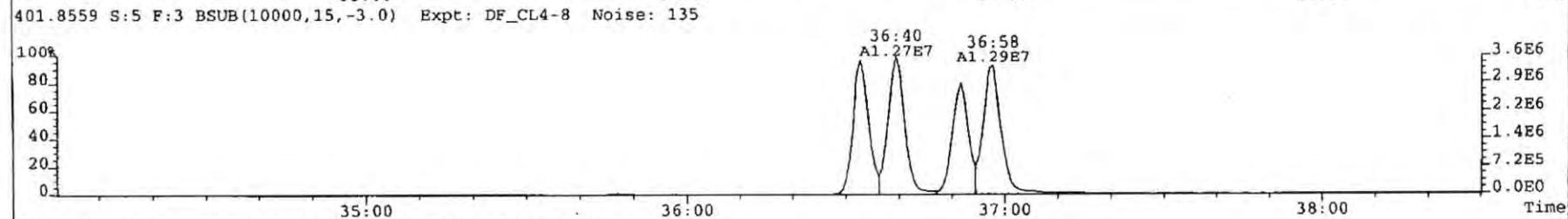
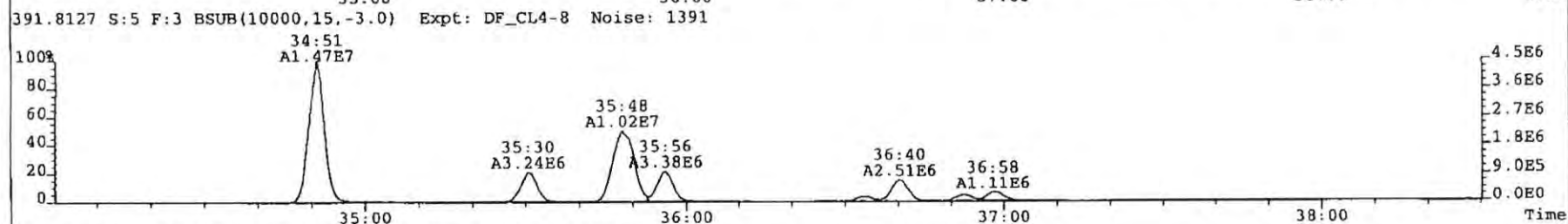
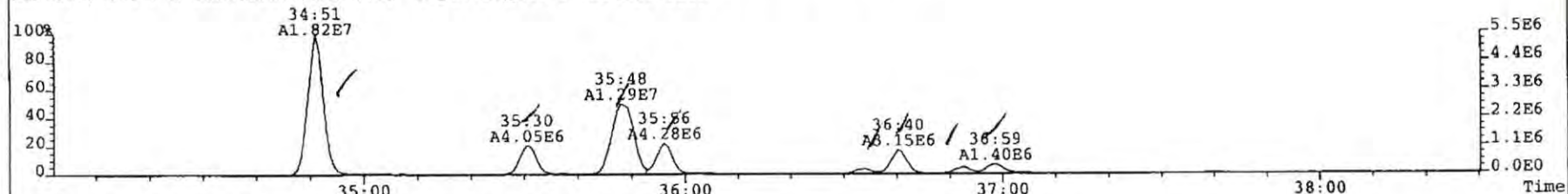
369.8919 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 107



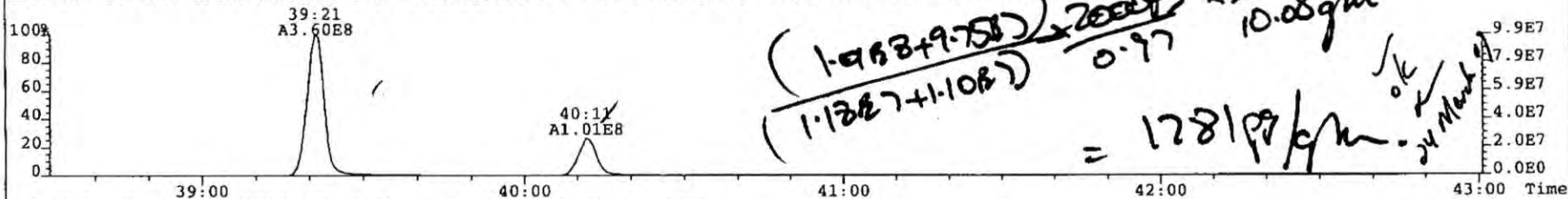
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2129

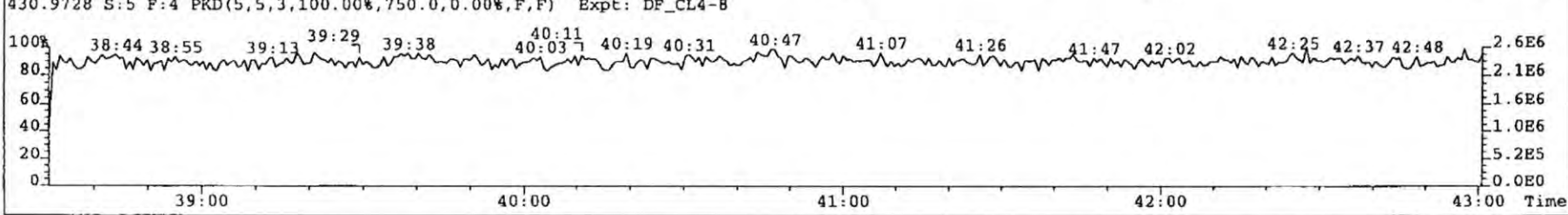
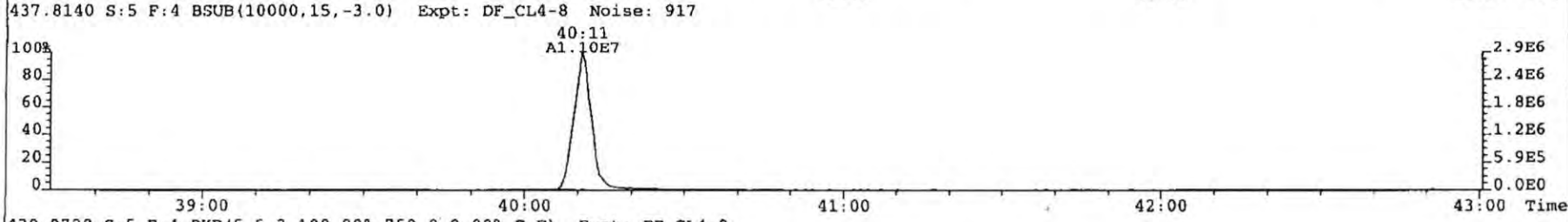
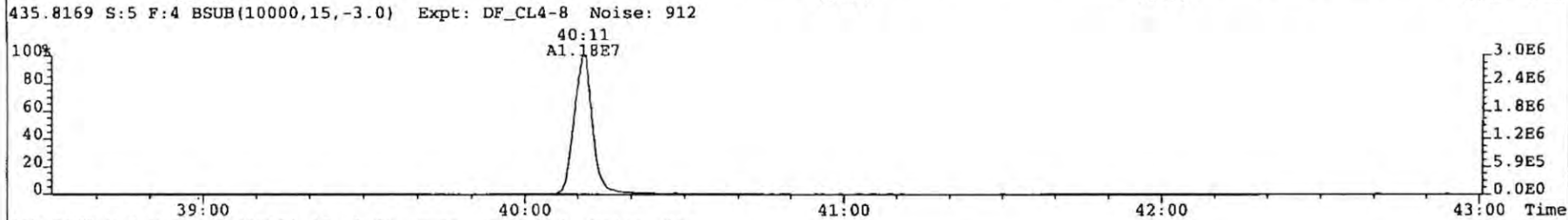
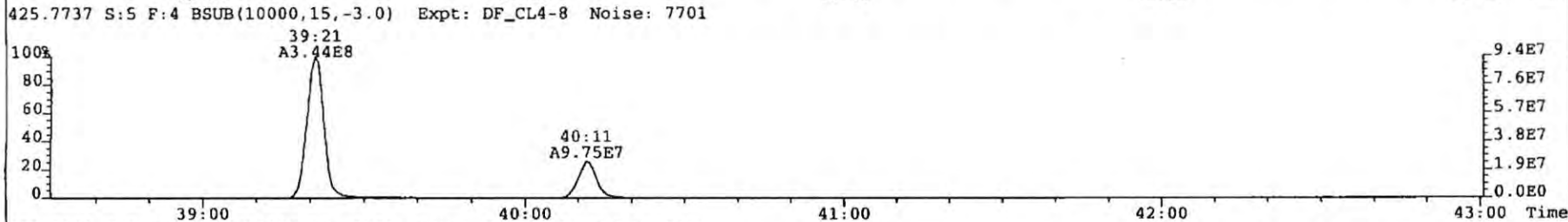


File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
 423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 7402

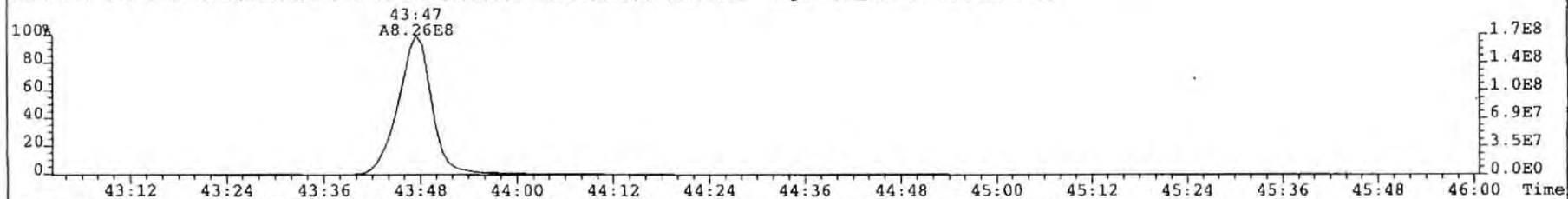


Handwritten calculation:
$$\frac{(1.968 + 9.758) \times 20000}{(1.1287 + 1.1087) \times 0.97} = 128199 \text{ g/m} \cdot \frac{1}{10.08 \text{ gm}}$$

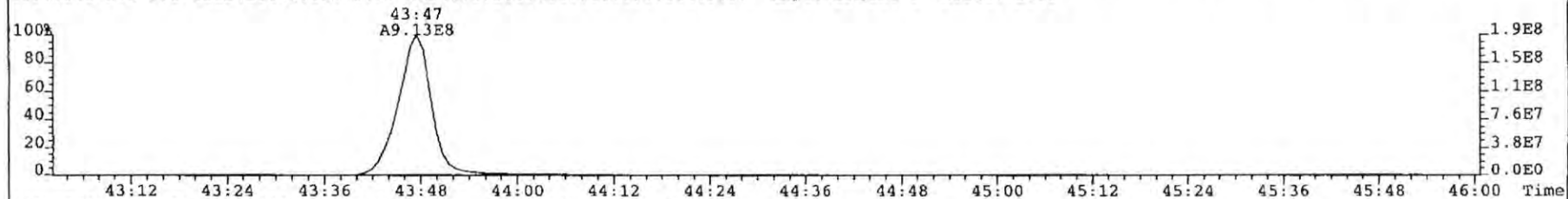
Additional notes: $\frac{1}{10.08 \text{ gm}}$, $\frac{1}{k}$, $\frac{1}{24 \text{ Mar}}$



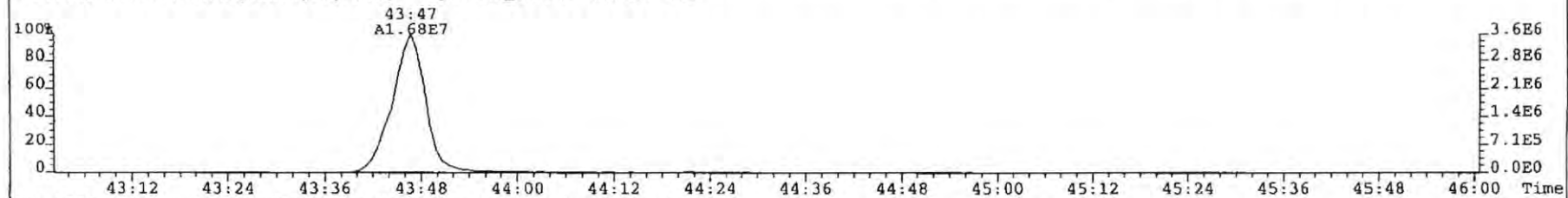
File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 7211



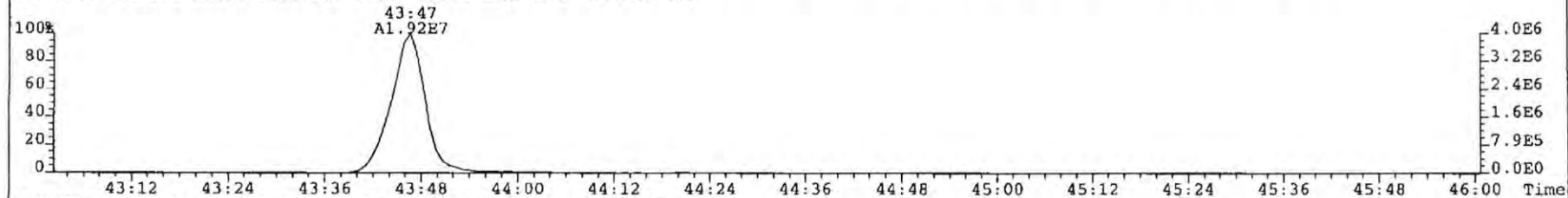
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2552



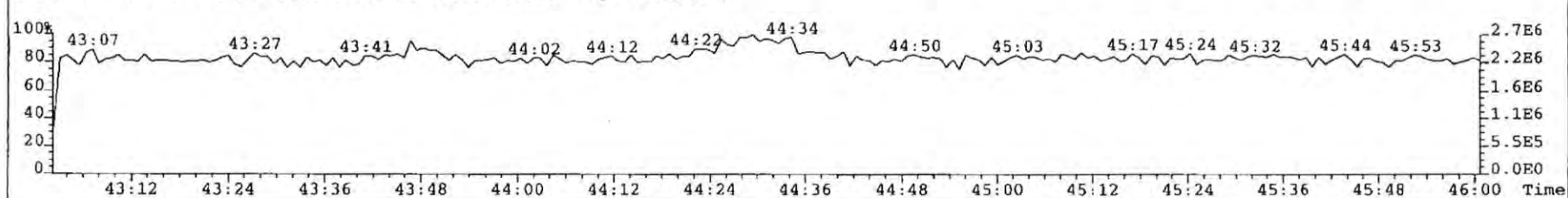
469.7780 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 101



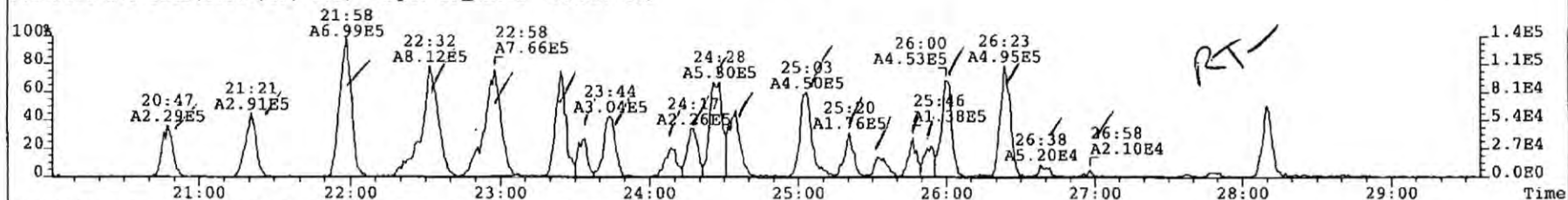
471.7750 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 137



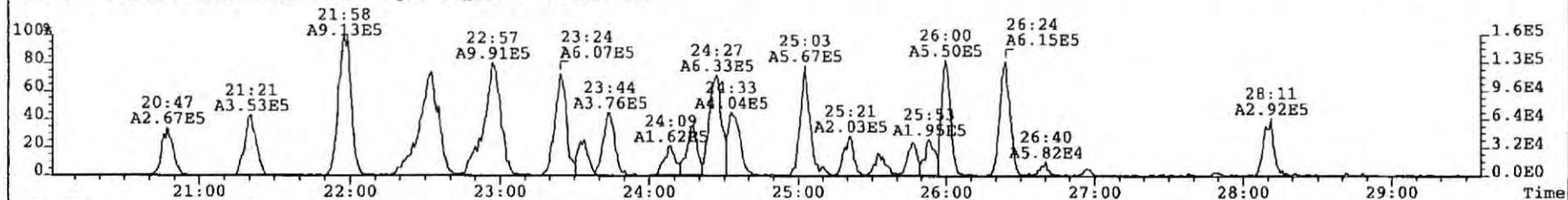
454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



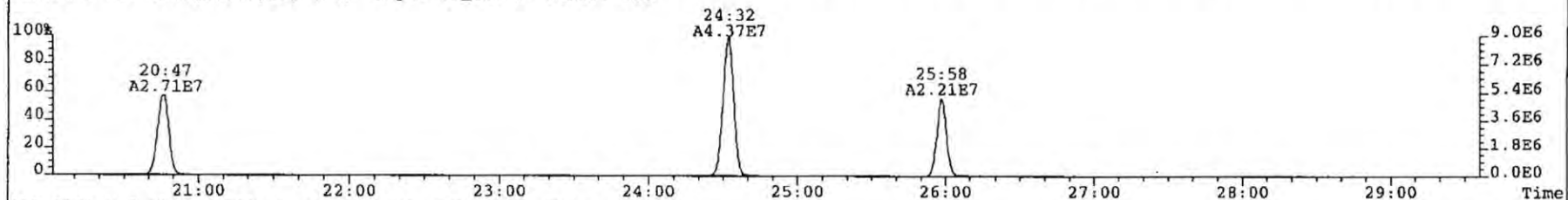
File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
303.9016 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 133



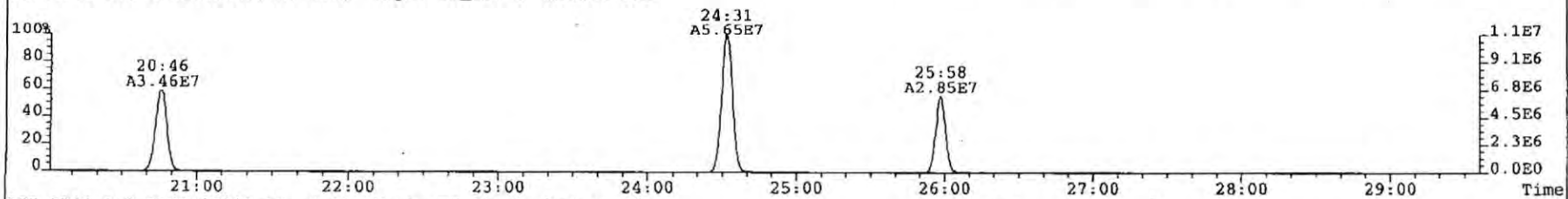
305.8987 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 215



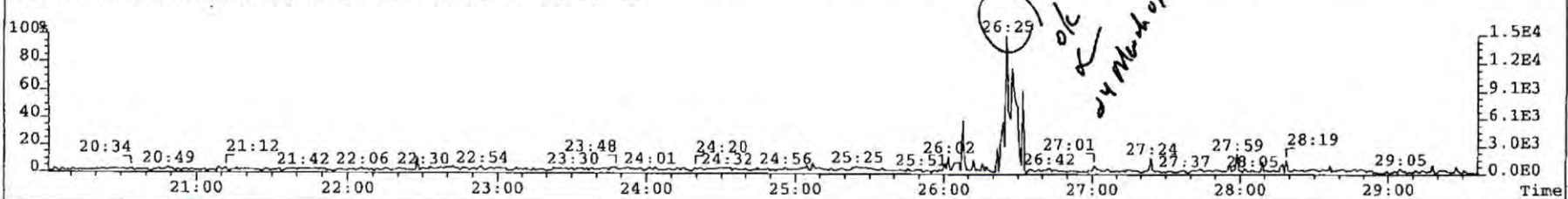
315.9419 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 608



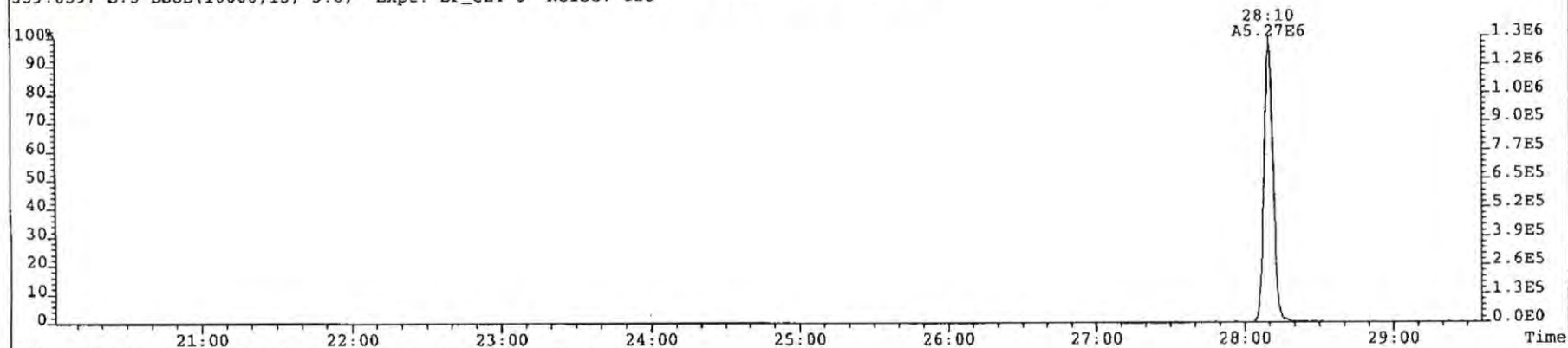
317.9389 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 675



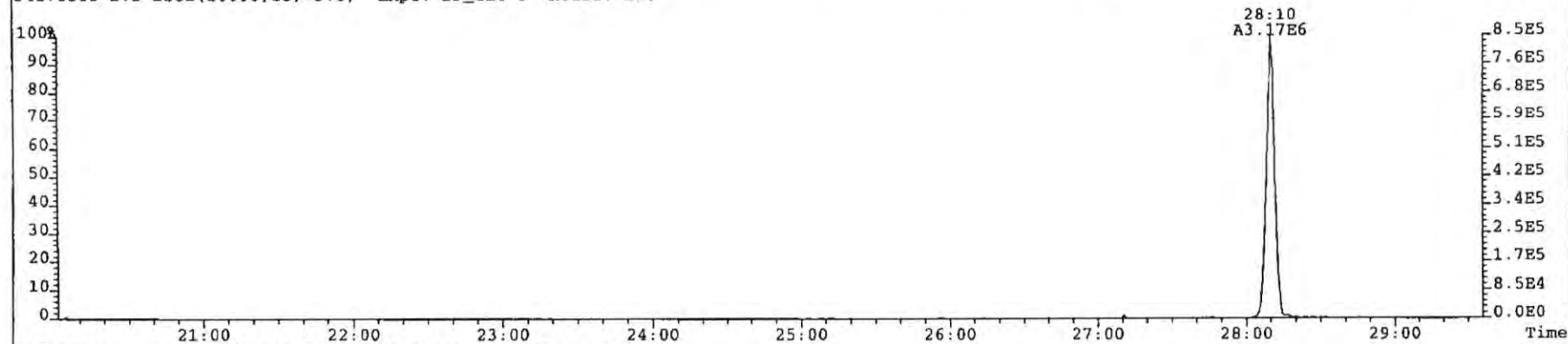
375.8364 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 122



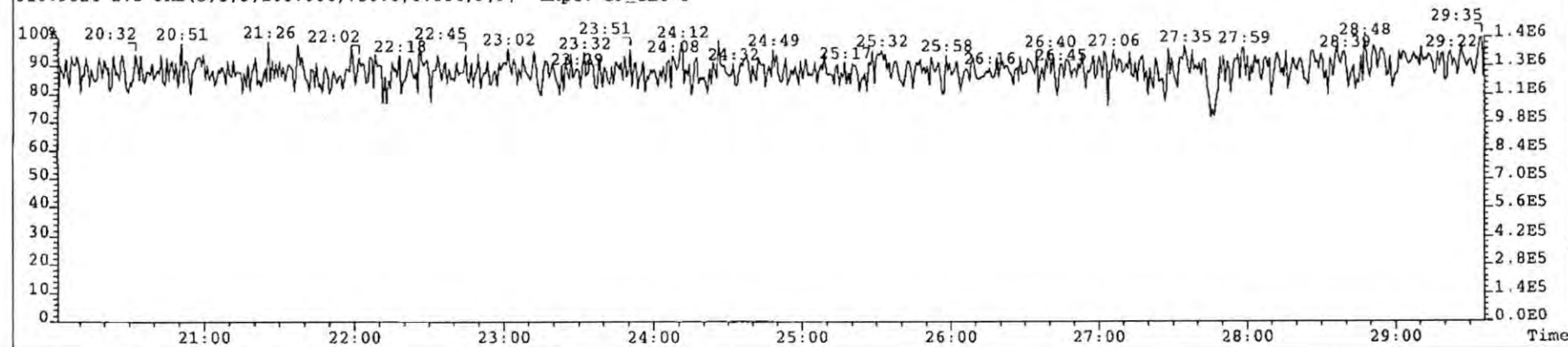
File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
339.8597 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 128



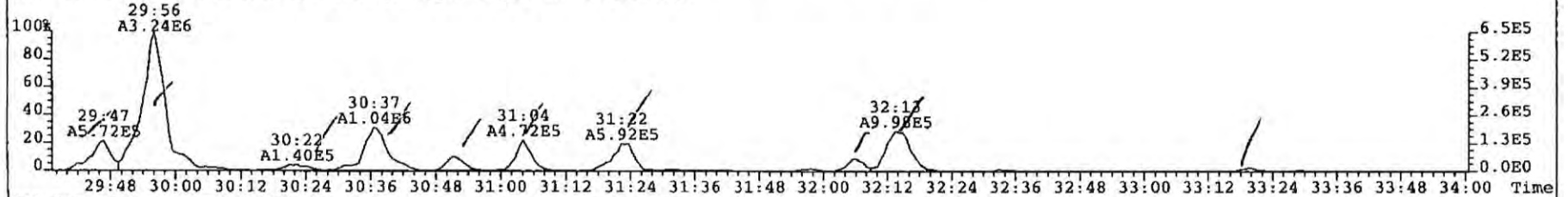
341.8568 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 116



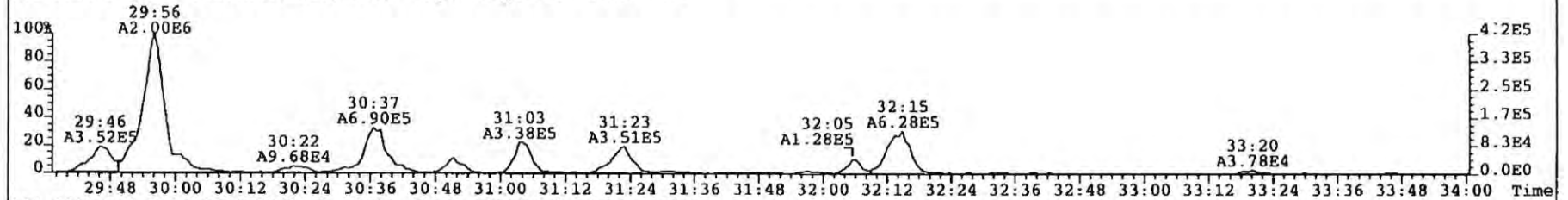
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



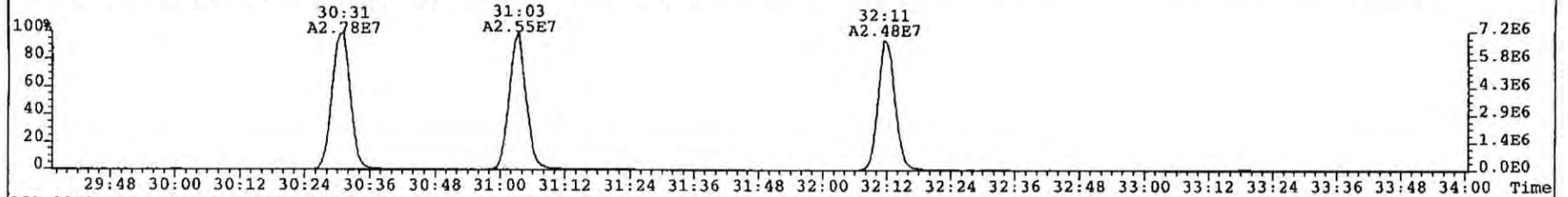
File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 603



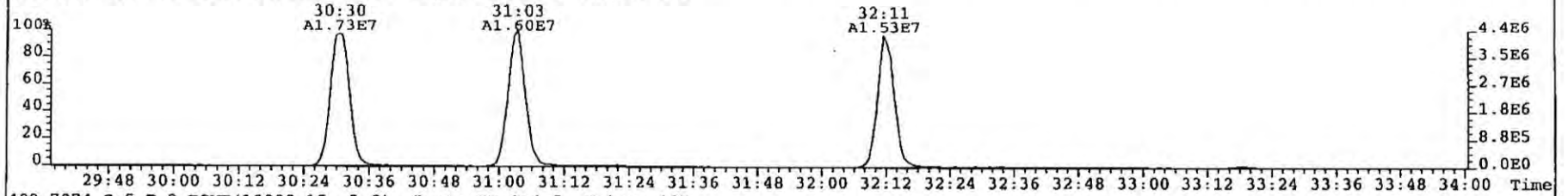
341.8568 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 546



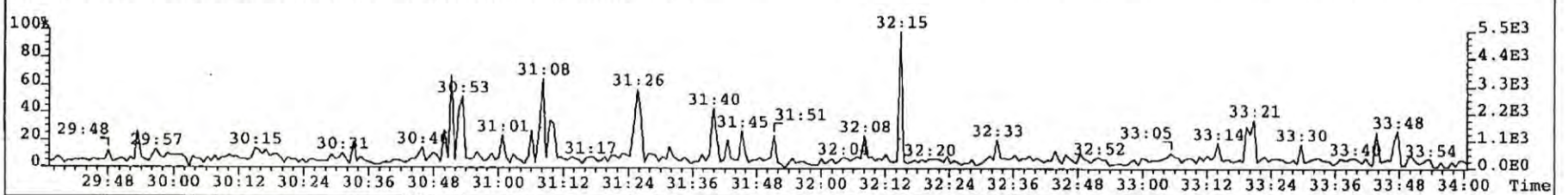
351.9000 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1084



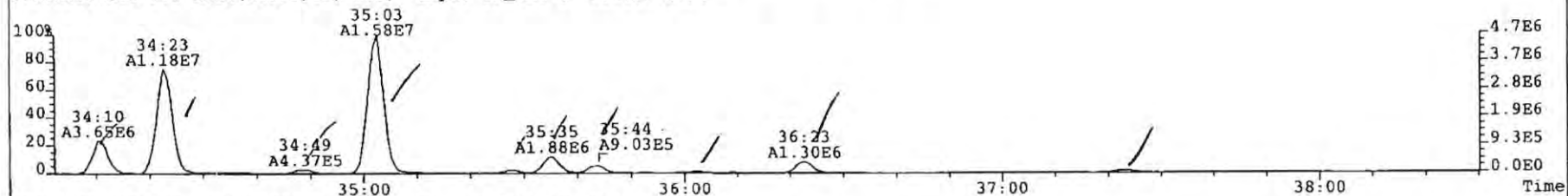
353.8970 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 660



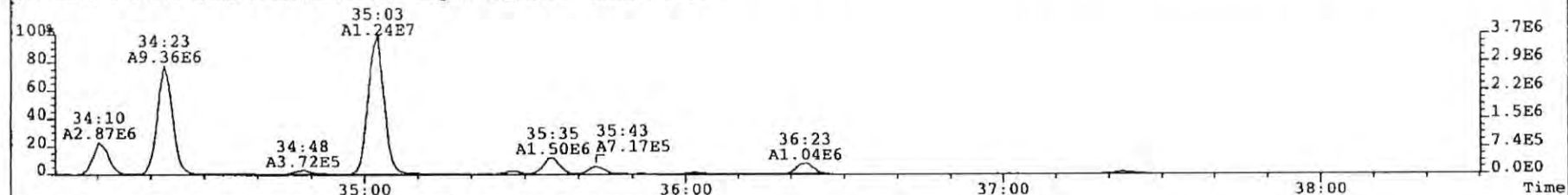
409.7974 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 107



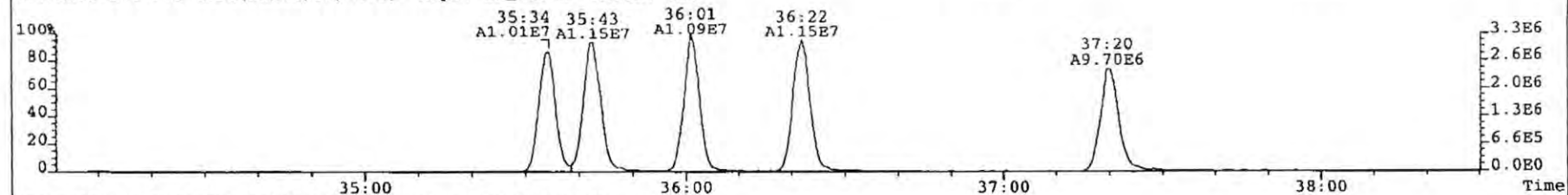
File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1794



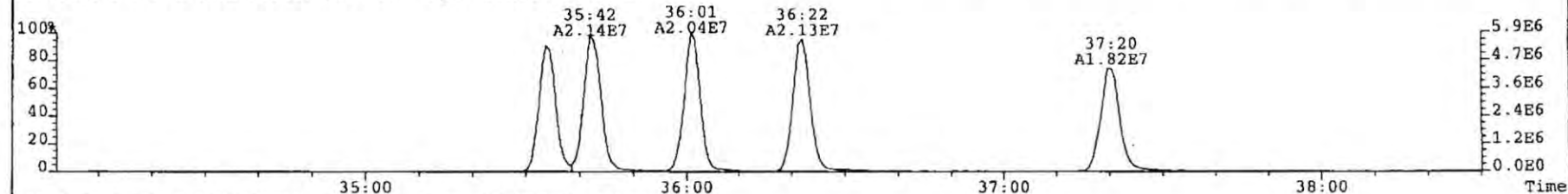
375.8178 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1159



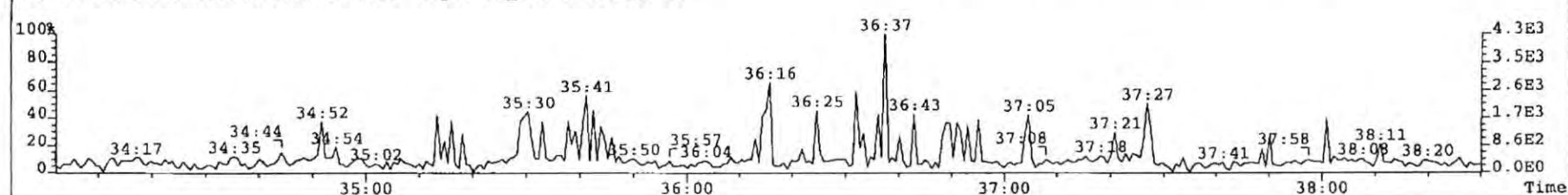
383.8639 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 235



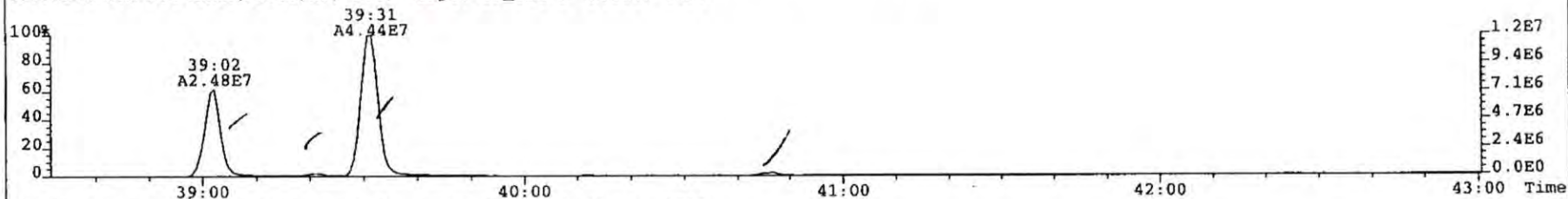
385.8610 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 705



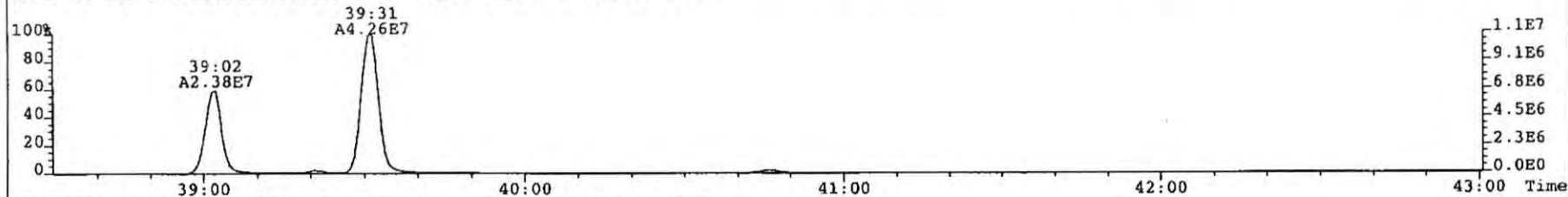
445.7555 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 103



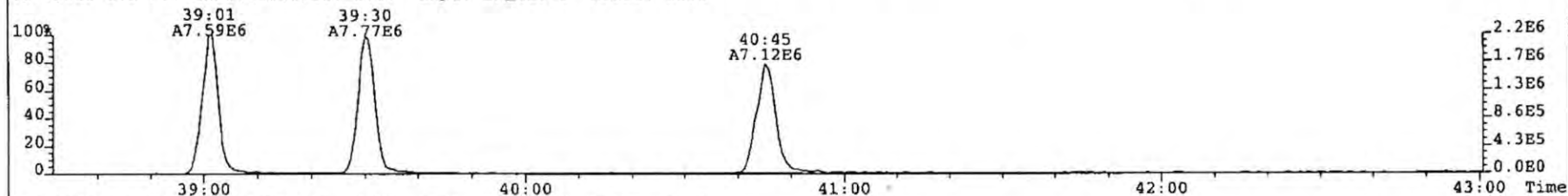
File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6630_001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1694



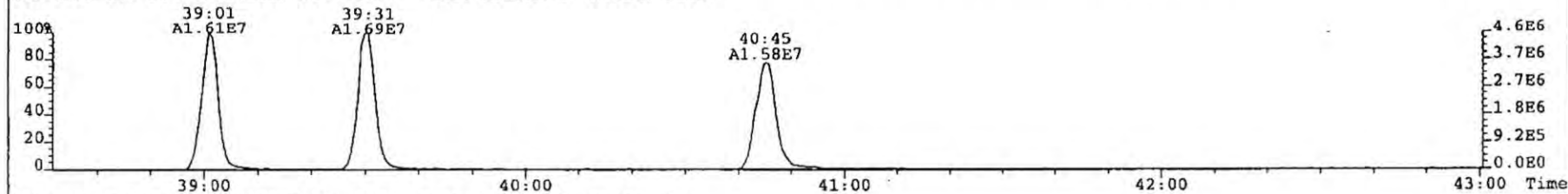
409.7788 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1732



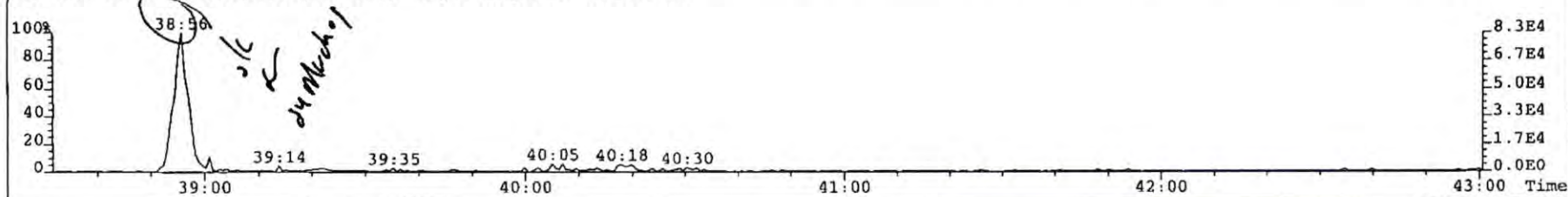
417.8253 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1252



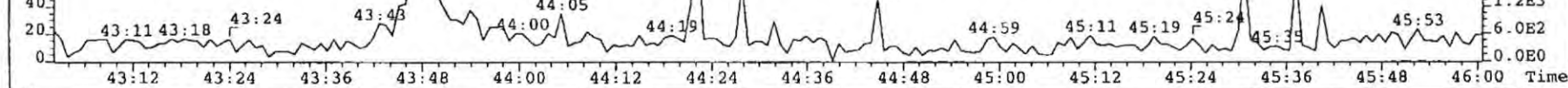
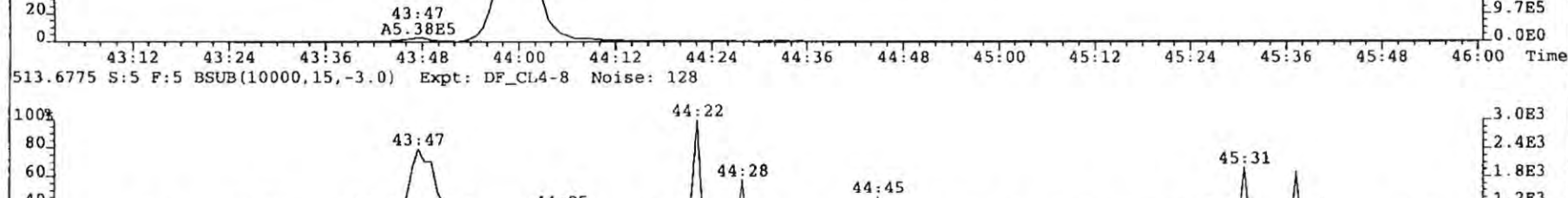
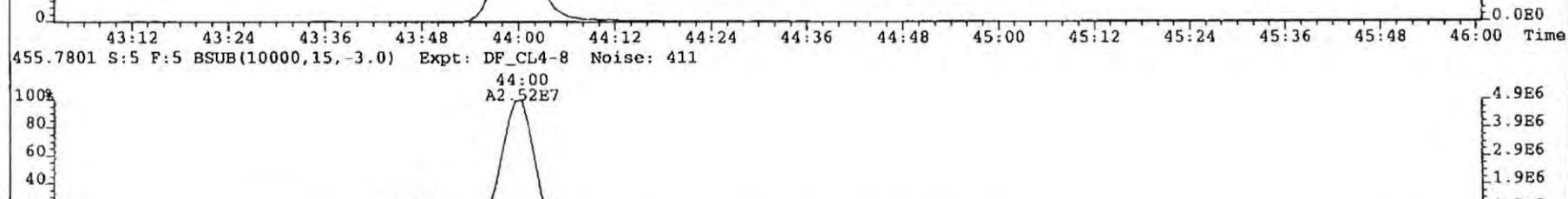
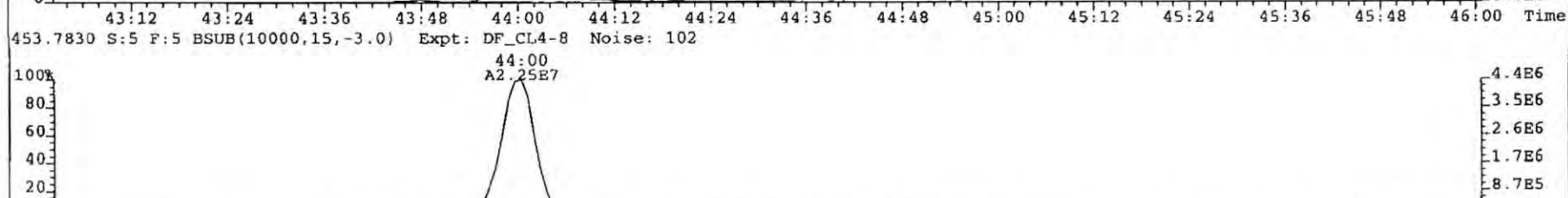
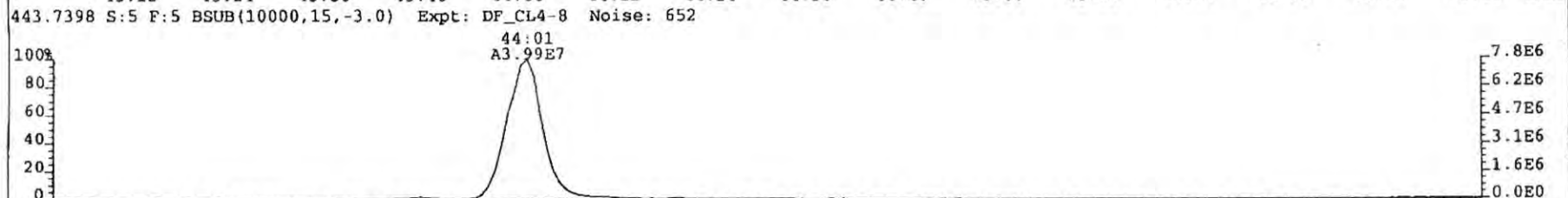
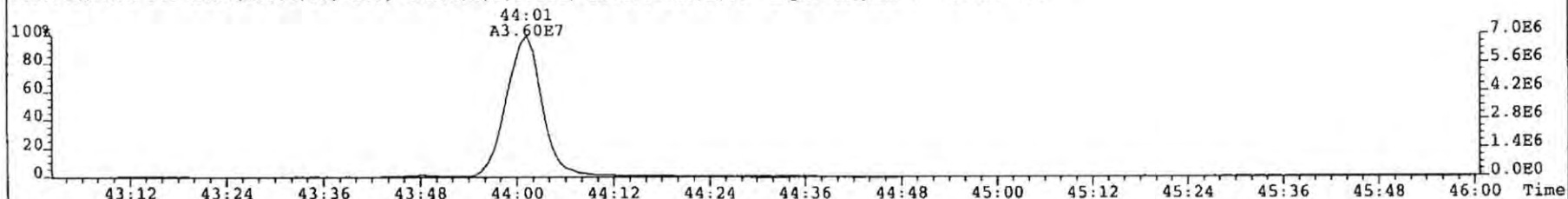
419.8220 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2144



479.7165 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 88



File: 090311P2 Acq: 11-MAR-2009 19:50:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158.6630.001 PO-BA-24-SS-A-090226 10.1g Vial# 93 File Text: AP DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 636



1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-BA-25-SS-A-090226
Lab ID: P1158_6630_002
Sample text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g

Filename: 090311P2
GC column ID: db-5
S: 6 Vial: 94 Acq: 11-MAR-09 20:40:22
Cal: MMI_DF_07012007A_25DEC08Wt/Vol: 10.93
Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Table with columns: Typ, Name, Resp, RA, RT, RRF, Conc., Noise, Fac, DL, Rec. Rows include various chemical compounds like TCDD, PeCDD, HxCDD, HxCDF, HpCDD, OCDD, OCDF, and their respective analysis results.

ok

ok or March 09

Analysis

Date

Signature and date: 24 March 09

SS	37Cl-2,3,7,8-TCDD	1.65e+07		26:57	1.00	79.2		0.0494	108
SS	13C-1,2,3,4,7-PeCDD	2.78e+07	1.66 y	32:03	0.93	175	3961 2.5	0.566	95.6
SS	13C-1,2,3,4,6-PeCDF	5.61e+07	1.58 y	30:31	0.94	216	6820 2.5	0.611	118
SS	13C-1,2,3,4,6,9-HxCDF	3.65e+07	0.54 y	36:01	0.80	202	11122 2.5	0.867	110
SS	13C-1,2,3,4,6,8,9-HpCDF	3.11e+07	0.46 y	39:31	0.79	264	8205 2.5	0.961	144
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	1242 2.5	0.0758	-
Ay	1,3,6,8-TCDD	2.47e+06	0.82 y	22:58	1.08	10.9	892 2.5	0.0770	-
Ay	1,2,3,9-TCDD	4.64e+04	0.99 y	26:48	1.08	0.205	892 2.5	0.0770	-
Ay	1,2,8,9-TCDD	3.84e+04	0.84 y	28:00	1.08	0.170	892 2.5	0.0770	-
Ay	1,2,4,7,9-PeCDD	3.72e+06	1.63 y	30:00	1.00	21.7	1153 2.5	0.153	-
Ay	1,2,3,8,9-PeCDD	1.83e+05	1.84 y	33:02	1.00	1.07	1153 2.5	0.153	-
Ay	1,2,4,6,7,9-HxCDD	3.27e+07	1.27 y	34:51	1.00	230	9545 2.5	1.40	-
Ay	1,2,3,4,6,7,9-HpCDD	5.77e+08	1.05 y	39:21	0.97	3770	34547 2.5	4.85	-
Ay	1,3,6,8-TCDF	5.84e+05	0.82 y	20:48	1.05	1.74	1242 2.5	0.0758	-
Ay	2,3,4,8-TCDF	3.35e+05	0.72 y	25:52	1.05	0.998	1242 2.5	0.0758	-
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	1242 2.5	0.0758	-
Ay	1,3,4,6,8-PeCDF	1.13e+07	1.67 y	28:11	1.05	33.6	1287 2.5	0.0785	-
Ay	1,2,3,8,9-PeCDF	1.51e+05	1.54 y	33:20	1.00	0.550	4708 2.5	0.390	-
Ay	1,2,3,4,6,8-HxCDF	1.02e+07	1.26 y	34:11	1.15	43.3	4203 2.5	0.254	-
Tot	Total Tetra-Dioxins	7.26e+06	0.82 y	22:58	1.08	32.1	892 2.5	0.0770	-
Tot	Total Penta-Dioxins	1.18e+07	1.63 y	30:00	1.00	68.9	1153 2.5	0.153	-
Tot	Total Hexa-Dioxins	8.48e+07	1.27 y	34:51	1.00	597	9545 2.5	1.40	-
Tot	Total Hepta-Dioxins	7.94e+08	1.05 y	39:21	0.97	5190	34547 2.5	4.85	-
Tot	Total Tetra-Furans	1.84e+07	0.82 y	20:48	1.05	55.0	1242 2.5	0.0758	-
Tot	Total Penta-Furans	1.75e+07	1.55 y	29:46	1.00	63.8	4708 2.5	0.390	-
Tot	Total Hexa-Furans	9.70e+07	1.26 y	34:11	1.15	410	4203 2.5	0.254	-
Tot	Total Hepta-Furans	1.97e+08	1.05 y	39:02	1.35	950	10606 2.5	0.752	-
Tot	TCDD EMPC	7.52e+06	0.82 y	22:58	1.08	33.3	892 2.5	0.0770	-
Tot	PeCDD EMPC	1.20e+07	1.63 y	30:00	1.00	70.0	1153 2.5	0.153	-
Tot	HxCDD EMPC	8.48e+07	1.27 y	34:51	1.00	597	9545 2.5	1.40	-
Tot	HpCDD EMPC	7.94e+08	1.05 y	39:21	0.97	5190	34547 2.5	4.85	-
Tot	TCDF EMPC	1.89e+07	0.82 y	20:48	1.05	56.3	1242 2.5	0.0758	-
Tot	PeCDF EMPC	1.76e+07	1.55 y	29:46	1.00	64.0	4708 2.5	0.390	-
Tot	HxCDF EMPC	9.70e+07	1.26 y	34:11	1.15	410	4203 2.5	0.254	-
Tot	HpCDF EMPC	1.97e+08	1.05 y	39:02	1.35	950	10606 2.5	0.752	-
AS	13C-1,3,6,8-TCDD	3.69e+07	0.82 y	22:57	1.09	107	2188 2.5	0.131	58.7
AS	13C-1,3,6,8-TCDF	6.81e+07	0.79 y	20:47	1.09	110	2956 2.5	0.105	60.3
DPE	HxCDFE	*		NotF»	-	*	-	-	-
DPE	HpCDFE	*		NotF»	-	*	-	-	-
DPE	OCDFE	*		NotF»	-	*	-	-	-
DPE	NCDPE	*		NotF»	-	*	-	-	-
DPE	DCDFE	*		NotF»	-	*	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-

no

of 24 March 09

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 13 Checkcode: 4282
 File Name: 090311P2 Sample #: 6 Sample text: P1158_6630_002 PO-BA-25-SS-A-090226 10.»

Acquired: 11-MAR-09 20:40:22 Processed: 19-MAR-09 17:26:05

Total Conc.: 33.308 Unnamed Conc.: 20.966 Homolog count: 17 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
22:58	1.111e+06	n	1.356e+06	n	0.82	y	2.467e+06	2.467e+06	2.73e+02	y	10.9	1,3,6,8-TCDD
23:23	6.877e+05	n	8.609e+05	n	0.80	y	1.549e+06	1.549e+06	1.77e+02	y	6.86	
23:51	8.676e+04	n	1.100e+05	n	0.79	y	1.967e+05	1.967e+05	2.50e+01	y	0.871	
24:43	7.513e+04	n	1.026e+05	n	0.73	y	1.777e+05	1.777e+05	2.41e+01	y	0.787	
24:58	2.063e+05	n	2.369e+05	n	0.87	y	4.432e+05	4.432e+05	5.25e+01	y	1.96	
25:10	2.447e+05	n	2.939e+05	n	0.83	y	5.386e+05	5.386e+05	7.09e+01	y	2.38	
25:23	6.708e+04	n	8.620e+04	n	0.78	y	1.533e+05	1.533e+05	2.31e+01	y	0.679	
25:39	2.967e+04	n	3.209e+04	n	0.92	n	6.176e+04	5.680e+04	9.55e+00	y	0.251	
25:51	9.470e+04	n	1.089e+05	n	0.87	y	2.035e+05	2.035e+05	2.59e+01	y	0.901	
26:15	1.723e+05	n	2.219e+05	n	0.78	y	3.942e+05	3.942e+05	5.37e+01	y	1.75	
26:23	2.002e+04	n	1.662e+04	n	1.20	n	3.664e+04	2.942e+04	7.31e+00	y	0.130	
26:39	3.787e+05	n	4.449e+05	n	0.85	y	8.235e+05	8.235e+05	1.07e+02	y	3.65	
26:48	2.605e+04	n	2.621e+04	n	0.99	n	5.227e+04	4.640e+04	9.38e+00	y	0.205	1,2,3,9-TCDD
26:57	1.036e+05	n	1.318e+05	n	0.79	y	2.353e+05	2.353e+05	3.34e+01	y	1.04	2,3,7,8-TCDD
27:18	7.409e+04	n	7.560e+04	n	0.98	n	1.497e+05	1.338e+05	2.78e+01	y	0.592	
27:28	1.440e+04	n	2.158e+04	n	0.67	y	3.598e+04	3.598e+04	5.47e+00	y	0.159	
28:00	1.749e+04	n	2.091e+04	n	0.84	y	3.840e+04	3.840e+04	7.34e+00	y	0.170	1,2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 13 Checkcode: 4282
 File Name: 090311P2 Sample #: 6 Sample text: P1158_6630_002 PO-BA-25-SS-A-090226 10.»

Acquired: 11-MAR-09 20:40:22 Processed: 19-MAR-09 17:26:05

Total Conc.: 69.956 Unnamed Conc.: 42.262 Homolog count: 10 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:06	2.305e+06	n	1.418e+06	y	1.63	y	3.724e+06	3.724e+06	2.40e+02	y	21.7	1,2,4,7,9-PeCDD
30:33	7.642e+05	n	4.670e+05	n	1.64	y	1.231e+06	1.231e+06	1.17e+02	y	7.19	
31:07	1.089e+06	n	6.717e+05	n	1.62	y	1.761e+06	1.761e+06	1.66e+02	y	10.3	
31:19	5.834e+05	y	3.787e+05	y	1.54	y	9.620e+05	9.620e+05	9.11e+01	y	5.62	
31:27	8.373e+05	y	5.306e+05	y	1.58	y	1.368e+06	1.368e+06	1.30e+02	y	7.99	
31:41	6.643e+05	n	3.946e+05	n	1.68	y	1.059e+06	1.059e+06	6.54e+01	y	6.18	
32:04	3.588e+05	n	2.225e+05	n	1.61	y	5.813e+05	5.813e+05	5.05e+01	y	3.40	
32:34	5.274e+05	y	3.082e+05	y	1.71	y	8.355e+05	8.355e+05	8.19e+01	y	4.88	1,2,3,7,8-PeCDD
32:41	1.599e+05	y	1.140e+05	y	1.40	y	2.738e+05	2.738e+05	2.56e+01	y	1.60	
33:02	1.314e+05	n	7.158e+04	y	1.84	n	2.030e+05	1.825e+05	2.26e+01	y	1.07	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 13 Checkcode: 4282
 File Name: 090311P2 Sample #: 6 Sample text: P1158_6630_002 PO-BA-25-SS-A-090226 10.»

Acquired: 11-MAR-09 20:40:22 Processed: 19-MAR-09 17:26:05

Total Conc.: 596.89 Unnamed Conc.: 280.494 Homolog count: 8 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:51	1.830e+07	n	1.443e+07	n	1.27 y	3.273e+07	3.273e+07	4.22e+02	y	230 1,2,4,6,7,9-HxCDD
35:31	3.551e+06	n	2.811e+06	n	1.26 y	6.361e+06	6.361e+06	8.62e+01	y	44.7
35:48	1.471e+07	n	1.167e+07	n	1.26 y	2.638e+07	2.638e+07	2.81e+02	y	185
35:57	3.130e+06	n	2.618e+06	n	1.20 y	5.748e+06	5.748e+06	7.30e+01	y	40.4
36:33	7.688e+05	n	6.102e+05	n	1.26 y	1.379e+06	1.379e+06	2.08e+01	y	9.72 1,2,3,4,7,8-HxCDD
36:40	4.227e+06	n	3.296e+06	n	1.28 y	7.523e+06	7.523e+06	9.65e+01	y	55.0 1,2,3,6,7,8-HxCDD
36:52	8.234e+05	n	5.941e+05	n	1.39 y	1.417e+06	1.417e+06	1.78e+01	y	9.96
36:59	1.765e+06	n	1.446e+06	n	1.22 y	3.211e+06	3.211e+06	3.62e+01	y	21.7 1,2,3,7,8,9-HxCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 13 Checkcode: 4282
 File Name: 090311P2 Sample #: 6 Sample text: P1158_6630_002 PO-BA-25-SS-A-090226 10.»

Acquired: 11-MAR-09 20:40:22 Processed: 19-MAR-09 17:26:05

Total Conc.: 5193.6 Unnamed Conc.: * Homolog count: 2

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:21	2.958e+08	n	2.813e+08	n	1.05 y	5.771e+08	5.771e+08	2.26e+03	y	3770 1,2,3,4,6,7,9-HpCDD
40:12	1.127e+08	n	1.046e+08	n	1.08 y	2.173e+08	2.173e+08	7.63e+02	y	1420 1,2,3,4,6,7,8-HpCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 13 Checkcode: 4282
 File Name: 090311P2 Sample #: 6 Sample text: P1158_6630_002 PO-BA-25-SS-A-090226 10.»

Acquired: 11-MAR-09 20:40:22 Processed: 19-MAR-09 17:26:05

Total Conc.: 56.288 Unnamed Conc.: 49.685 Homolog count: 21

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
20:48	2.625e+05	n	3.220e+05	n	0.82 y	5.845e+05	5.845e+05	5.18e+01	y	1.74 1,3,6,8-TCDF
21:21	3.463e+05	n	4.337e+05	n	0.80 y	7.800e+05	7.800e+05	6.59e+01	y	2.33
21:58	8.993e+05	n	1.161e+06	n	0.77 y	2.061e+06	2.061e+06	1.79e+02	y	6.14
22:30	9.291e+05	n	1.175e+06	n	0.79 y	2.104e+06	2.104e+06	9.76e+01	y	6.27
22:55	9.490e+05	n	1.223e+06	n	0.78 y	2.171e+06	2.171e+06	1.34e+02	y	6.47
23:24	5.533e+05	y	7.223e+05	y	0.77 y	1.276e+06	1.276e+06	1.06e+02	y	3.80
23:32	2.221e+05	y	2.434e+05	y	0.91 n	4.656e+05	4.309e+05	3.87e+01	y	1.28
23:44	3.515e+05	y	4.659e+05	y	0.75 y	8.174e+05	8.174e+05	7.79e+01	y	2.44
24:08	1.526e+05	y	2.010e+05	y	0.76 y	3.536e+05	3.536e+05	2.93e+01	y	1.05
24:17	2.658e+05	y	3.163e+05	y	0.84 y	5.821e+05	5.821e+05	5.16e+01	y	1.74
24:26	6.253e+05	y	7.812e+05	y	0.80 y	1.406e+06	1.406e+06	1.18e+02	y	4.19
24:34	4.097e+05	y	4.731e+05	y	0.87 y	8.829e+05	8.829e+05	8.17e+01	y	2.63
25:03	5.178e+05	n	6.642e+05	n	0.78 y	1.182e+06	1.182e+06	1.16e+02	y	3.52
25:20	1.901e+05	y	2.630e+05	n	0.72 y	4.532e+05	4.532e+05	4.83e+01	y	1.35
25:33	1.183e+05	n	1.530e+05	n	0.77 y	2.713e+05	2.713e+05	2.24e+01	y	0.809
25:45	1.539e+05	y	2.261e+05	y	0.68 y	3.800e+05	3.800e+05	4.07e+01	y	1.13
25:52	1.397e+05	y	1.952e+05	y	0.72 y	3.348e+05	3.348e+05	3.36e+01	y	0.998 2,3,4,8-TCDF
26:00	5.861e+05	y	7.093e+05	y	0.83 y	1.295e+06	1.295e+06	1.24e+02	y	3.86 2,3,7,8-TCDF
26:23	5.847e+05	n	7.134e+05	n	0.82 y	1.298e+06	1.298e+06	1.21e+02	y	3.87
26:32	6.826e+04	n	8.749e+04	y	0.78 y	1.557e+05	1.557e+05	1.60e+01	y	0.464
26:57	2.433e+04	n	3.295e+04	n	0.74 y	5.728e+04	5.728e+04	5.68e+00	y	0.171

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDF EMPC Function: 2 Run #: 13 Checkcode: 4282
 File Name: 090311P2 Sample #: 6 Sample text: P1158_6630_002 PO-BA-25-SS-A-090226 10.»

Acquired: 11-MAR-09 20:40:22 Processed: 19-MAR-09 17:26:05

Total Conc.: 63.990 Unnamed Conc.: 50.283 Homolog count: 11 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
29:46	7.565e+05	n	4.881e+05	n	1.55	y	1.245e+06	1.245e+06	2.26e+01	y	4.52
29:57	4.597e+06	n	2.767e+06	n	1.66	y	7.364e+06	7.364e+06	1.15e+02	y	26.8
30:22	2.008e+05	n	1.199e+05	n	1.67	y	3.207e+05	3.207e+05	6.51e+00	y	1.17
30:37	1.624e+06	n	9.816e+05	n	1.65	y	2.606e+06	2.606e+06	4.23e+01	y	9.47
30:52	3.679e+05	n	2.178e+05	n	1.69	y	5.857e+05	5.857e+05	1.23e+01	y	2.13
31:05	7.266e+05	n	4.271e+05	n	1.70	y	1.154e+06	1.154e+06	2.53e+01	y	4.22 1,2,3,7,8-PeCDF
31:23	7.680e+05	n	4.701e+05	n	1.63	y	1.238e+06	1.238e+06	2.32e+01	y	4.50
31:57	6.588e+04	n	2.557e+04	n	2.58	n	9.145e+04	6.521e+04	1.62e+00	n	0.237
32:06	2.628e+05	n	1.498e+05	n	1.75	y	4.126e+05	4.126e+05	1.02e+01	y	1.50
32:14	1.515e+06	n	9.577e+05	n	1.58	y	2.473e+06	2.473e+06	4.05e+01	y	8.94 2,3,4,7,8-PeCDF
33:20	9.185e+04	n	5.945e+04	n	1.54	y	1.513e+05	1.513e+05	3.26e+00	y	0.550 1,2,3,8,9-PeCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HxCDF EMPC Function: 3 Run #: 13 Checkcode: 4282
 File Name: 090311P2 Sample #: 6 Sample text: P1158_6630_002 PO-BA-25-SS-A-090226 10.»

Acquired: 11-MAR-09 20:40:22 Processed: 19-MAR-09 17:26:05

Total Conc.: 409.90 Unnamed Conc.: 318.384 Homolog count: 10 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
34:11	5.713e+06	n	4.527e+06	n	1.26	y	1.024e+07	1.024e+07	3.30e+02	y	43.3 1,2,3,4,6,8-HxCDF
34:23	1.675e+07	n	1.336e+07	n	1.25	y	3.010e+07	3.010e+07	9.33e+02	y	127
34:49	6.198e+05	n	5.503e+05	n	1.13	y	1.170e+06	1.170e+06	3.52e+01	y	4.95
35:03	2.366e+07	n	1.908e+07	n	1.24	y	4.274e+07	4.274e+07	1.26e+03	y	181
35:28	4.289e+05	n	3.333e+05	n	1.29	y	7.622e+05	7.622e+05	2.05e+01	y	3.22
35:35	2.717e+06	n	2.198e+06	n	1.24	y	4.916e+06	4.916e+06	1.51e+02	y	21.1 1,2,3,4,7,8-HxCDF
35:43	1.311e+06	n	1.045e+06	n	1.25	y	2.355e+06	2.355e+06	6.88e+01	y	9.06 1,2,3,6,7,8-HxCDF
36:02	2.500e+05	n	2.226e+05	n	1.12	y	4.726e+05	4.726e+05	1.42e+01	y	2.00
36:23	1.890e+06	n	1.496e+06	n	1.26	y	3.386e+06	3.386e+06	1.04e+02	y	13.6 2,3,4,6,7,8-HxCDF
37:23	4.930e+05	n	3.963e+05	n	1.24	y	8.893e+05	8.893e+05	2.18e+01	y	4.35 1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]											

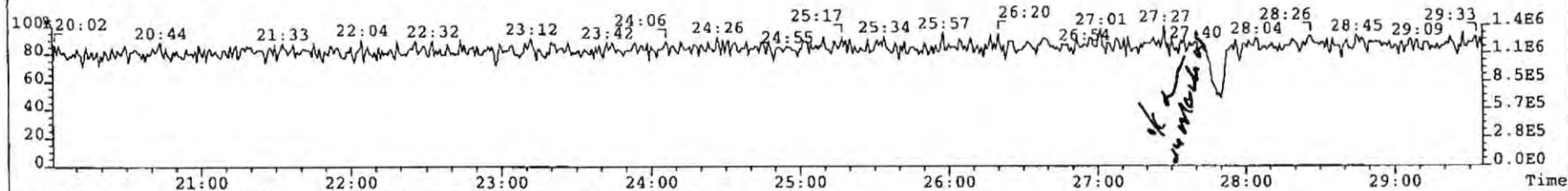
Totals class: HpCDF EMPC Function: 4 Run #: 13 Checkcode: 4282
 File Name: 090311P2 Sample #: 6 Sample text: P1158_6630_002 PO-BA-25-SS-A-090226 10.»

Acquired: 11-MAR-09 20:40:22 Processed: 19-MAR-09 17:26:05

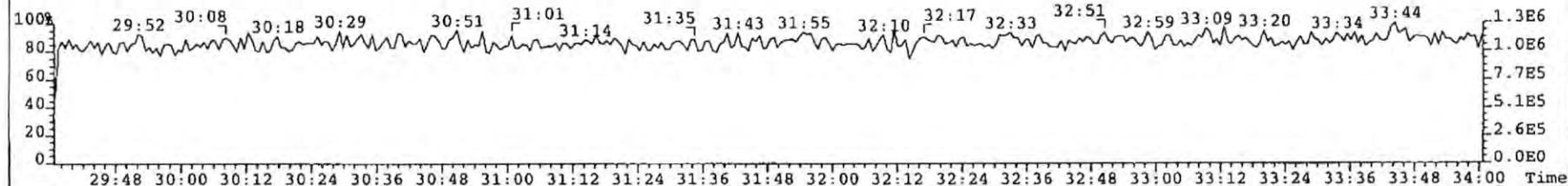
Total Conc.: 950.03 Unnamed Conc.: 602.255 Homolog count: 4 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:02	3.486e+07	n	3.312e+07	n	1.05	y	6.798e+07	6.798e+07	8.79e+02	y	335 1,2,3,4,6,7,8-HpCDF
39:21	6.796e+05	n	6.631e+05	n	1.02	y	1.343e+06	1.343e+06	1.76e+01	y	6.41
39:31	6.390e+07	n	6.092e+07	n	1.05	y	1.248e+08	1.248e+08	1.63e+03	y	596
40:46	1.400e+06	n	1.321e+06	n	1.06	y	2.721e+06	2.721e+06	3.07e+01	y	12.7 1,2,3,4,7,8,9-HpCDF

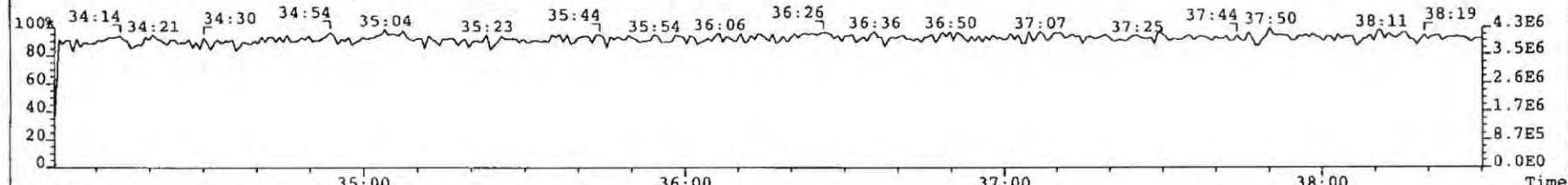
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



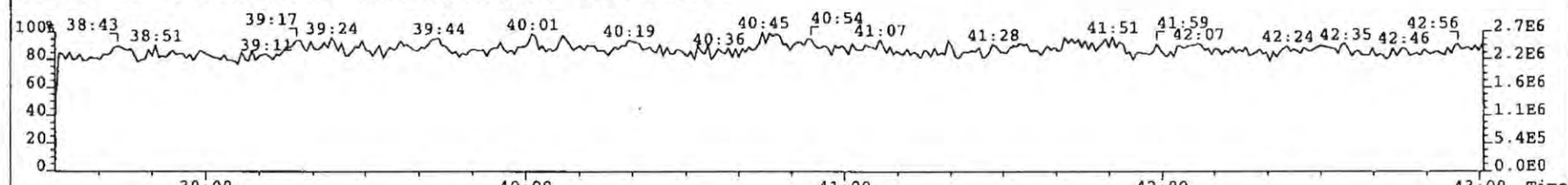
366.9792 S:6 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



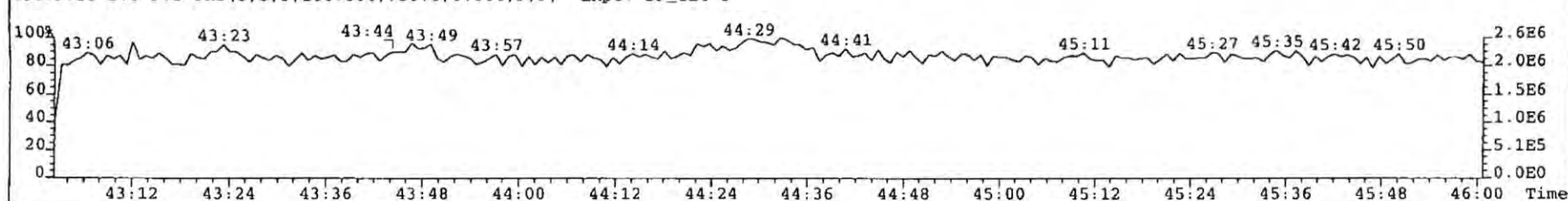
380.9760 S:6 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



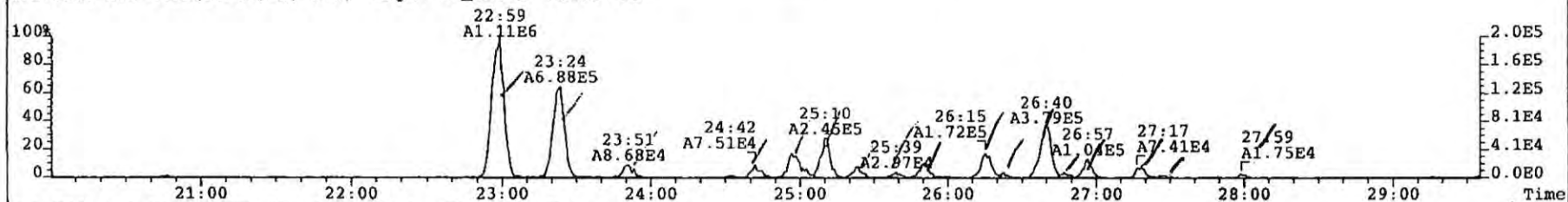
430.9728 S:6 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



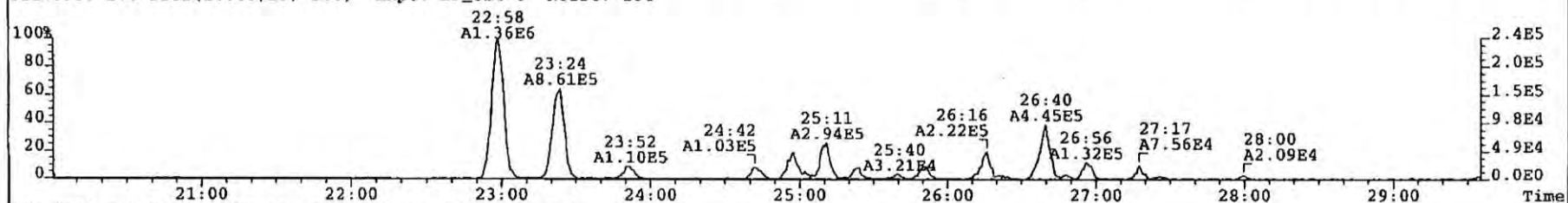
454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



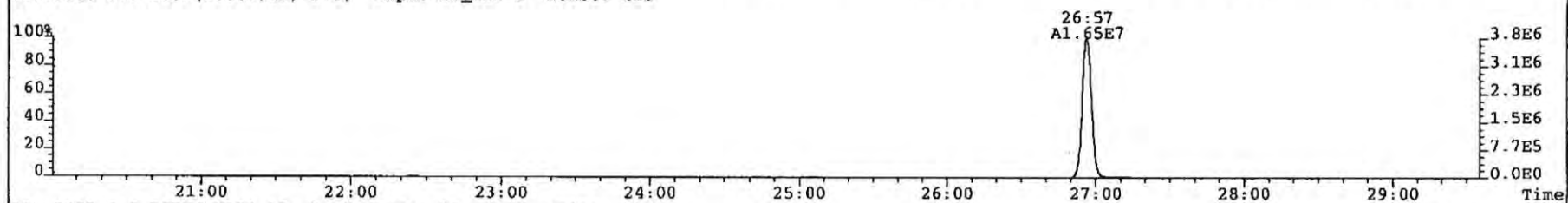
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
319.8965 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 99



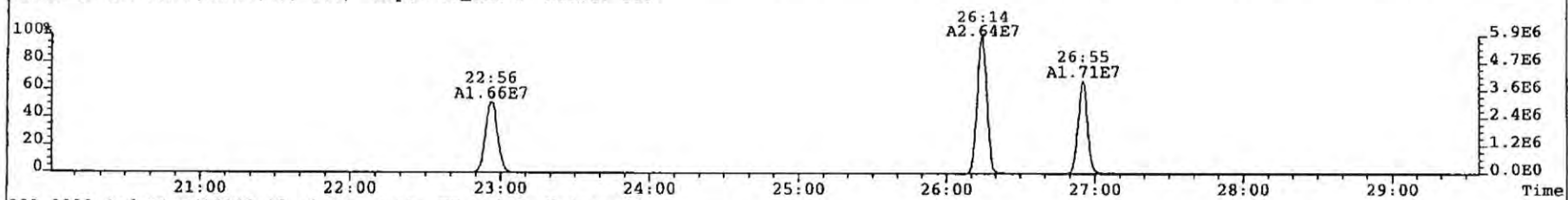
321.8936 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 104



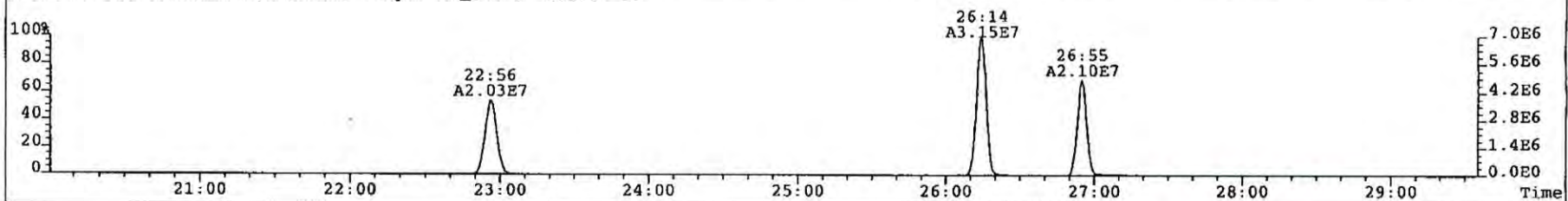
327.8850 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 111



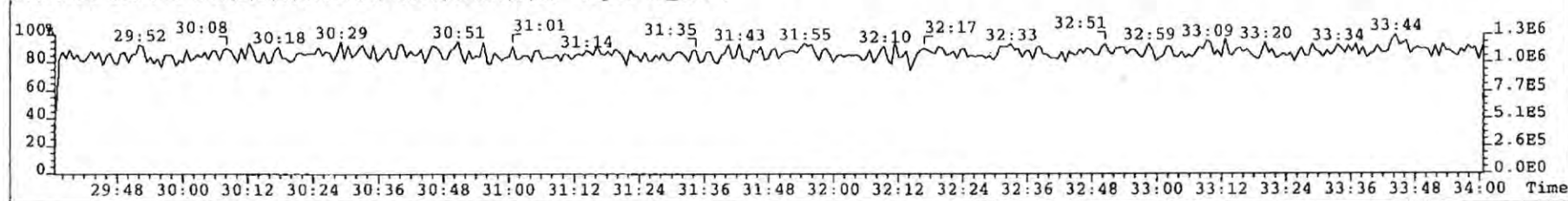
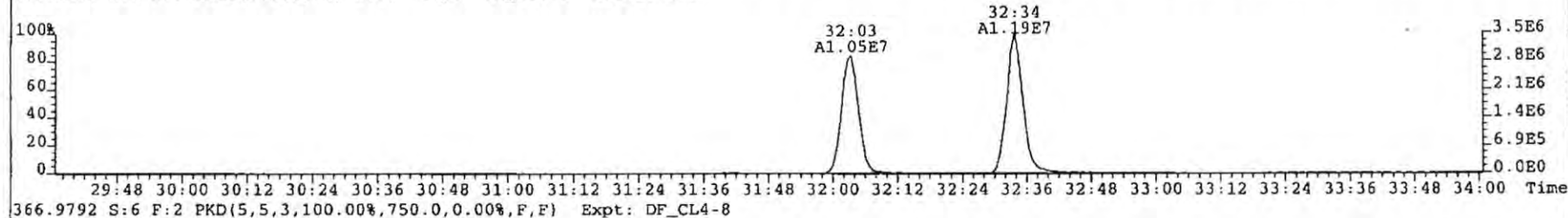
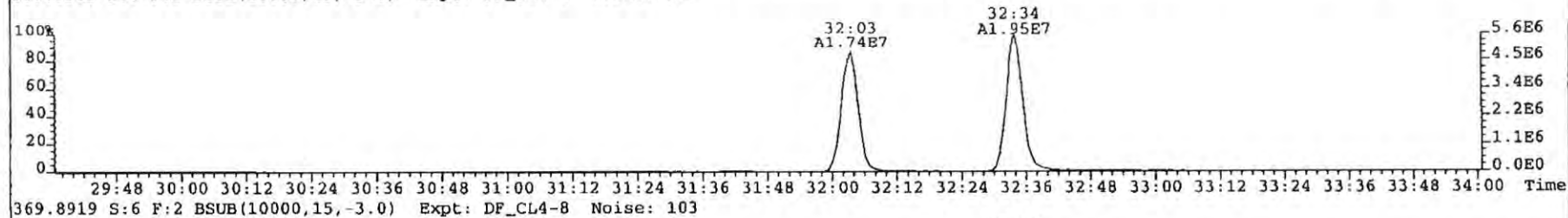
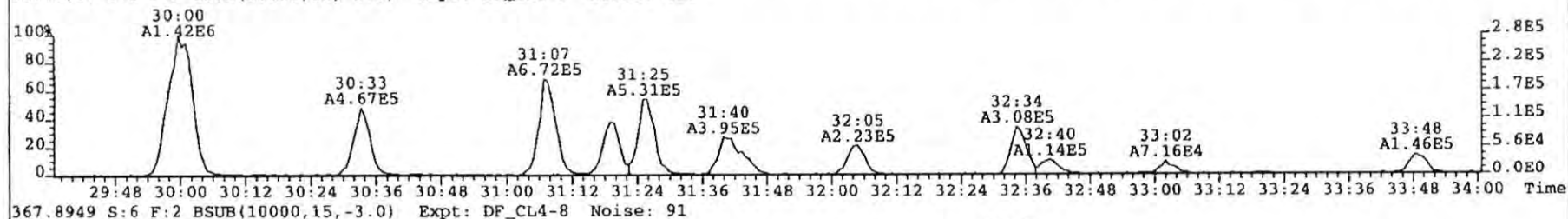
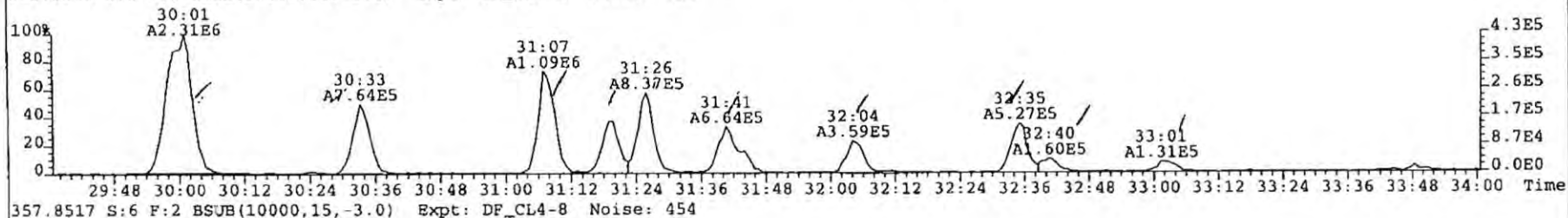
331.9368 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 106



333.9339 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 98

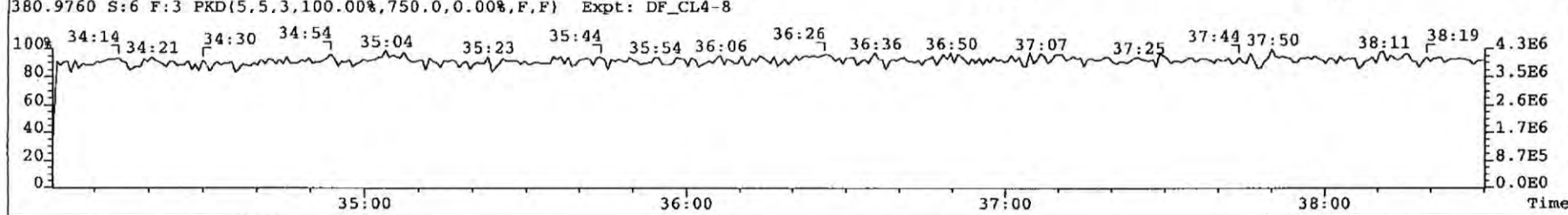
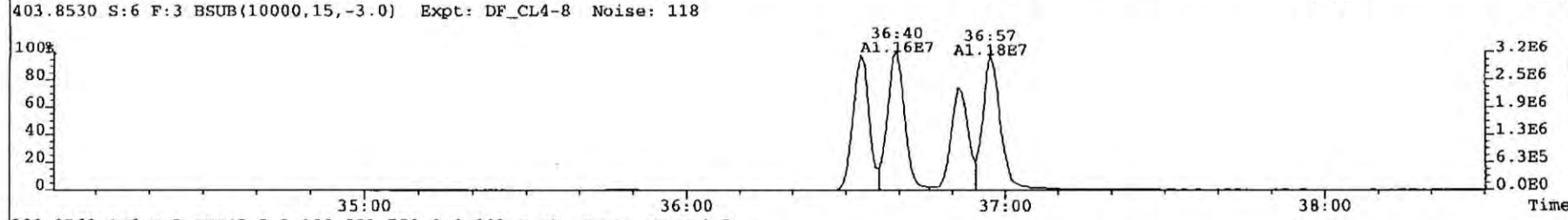
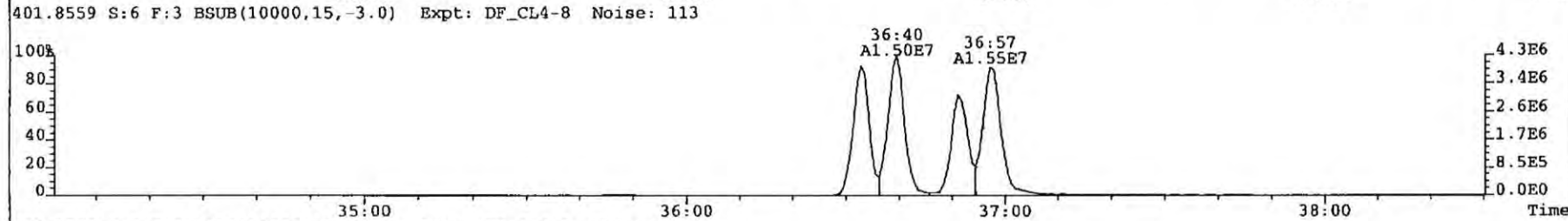
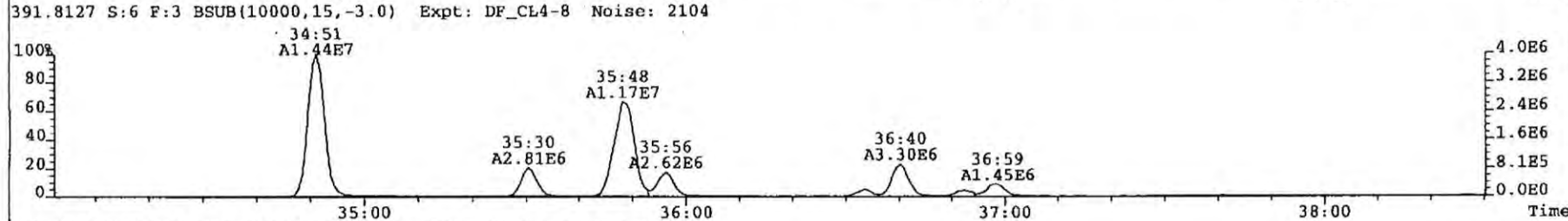
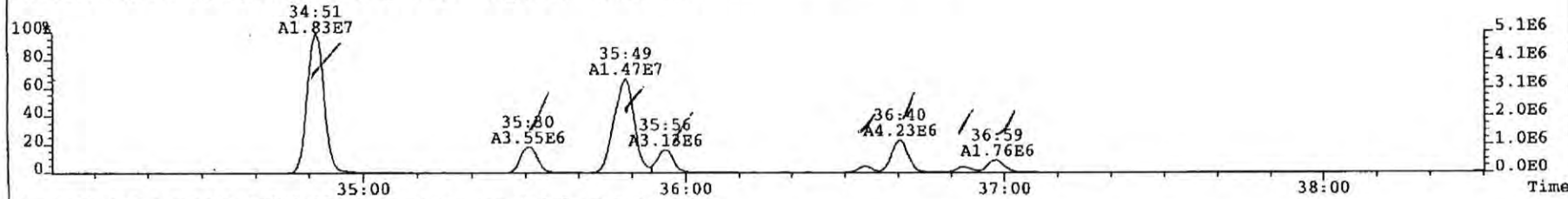


File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
355.8546 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 463

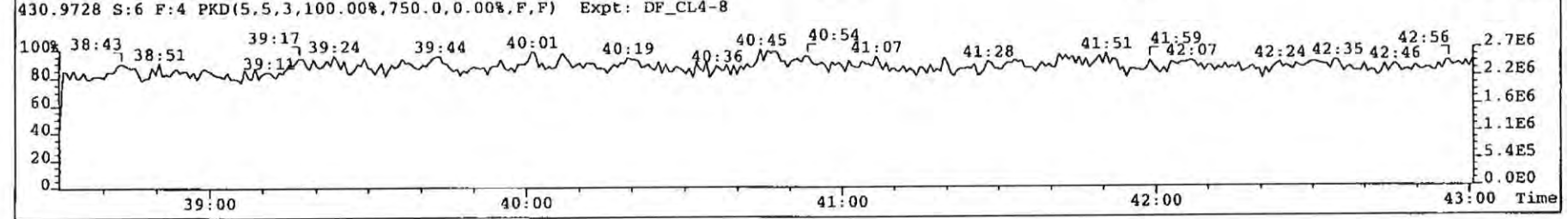
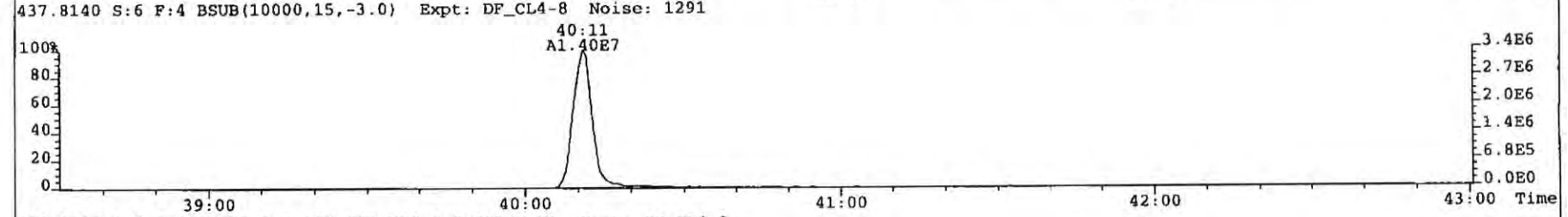
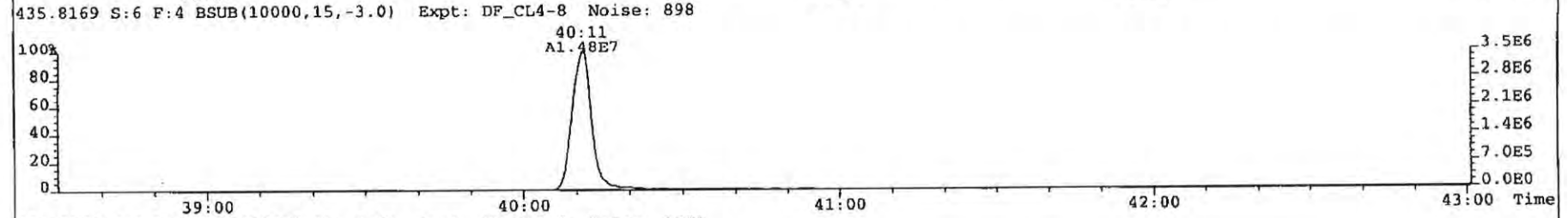
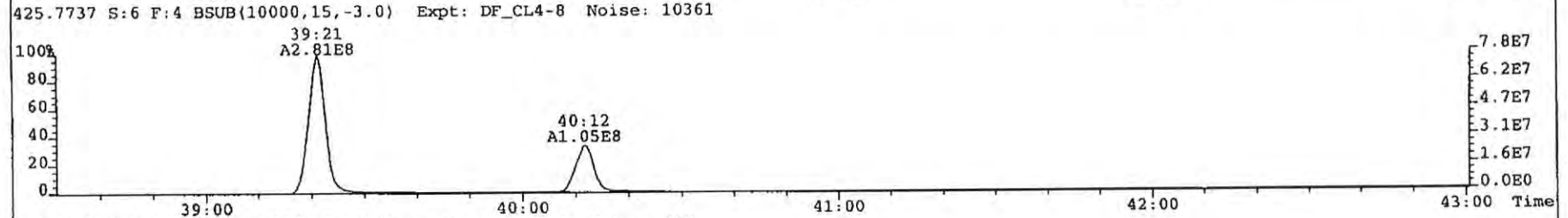
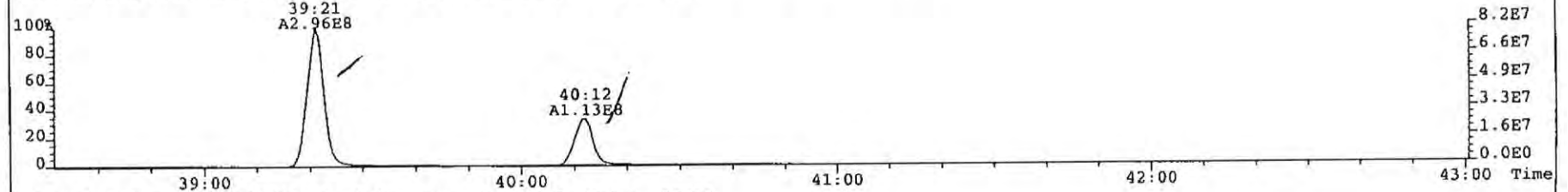




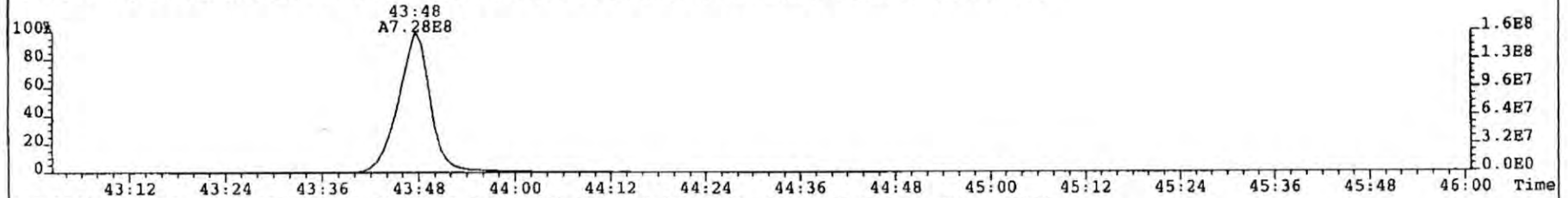
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1898



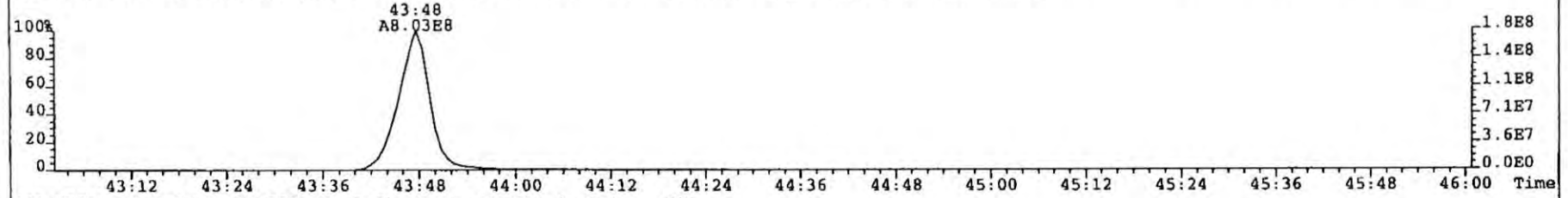
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
423.7767 S:6 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 9059



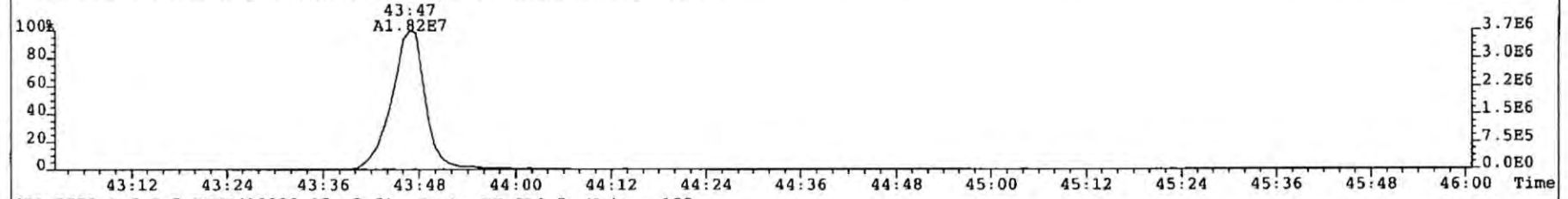
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 7150



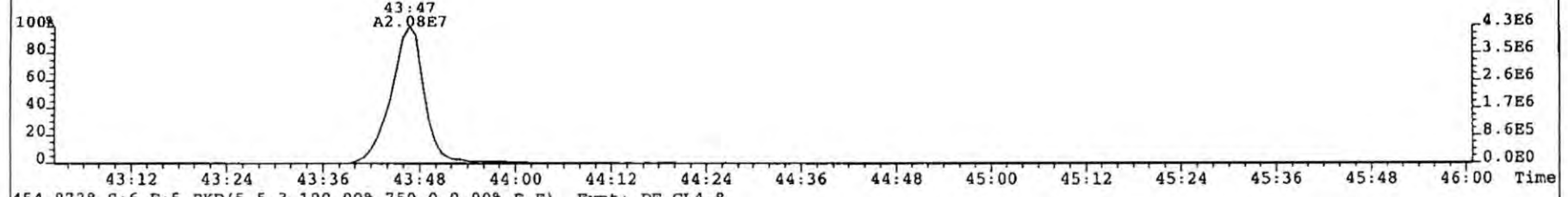
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 5398



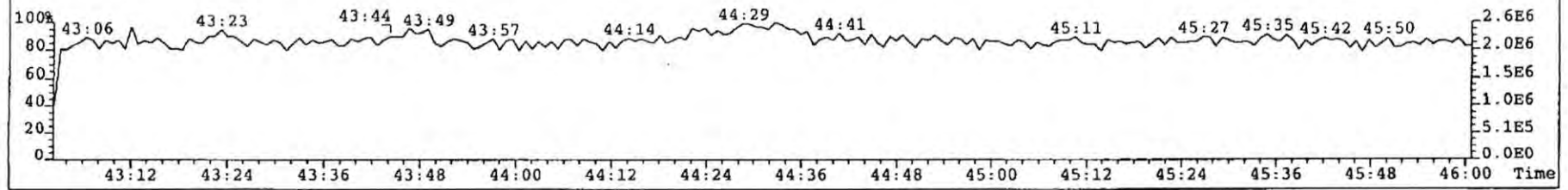
469.7780 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 476



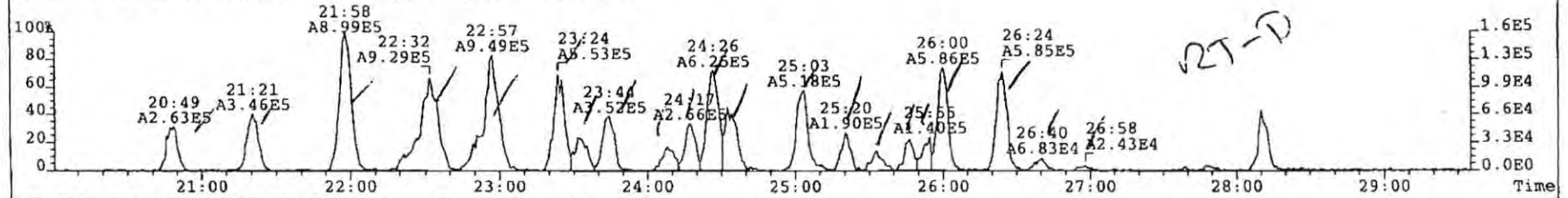
471.7750 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 128



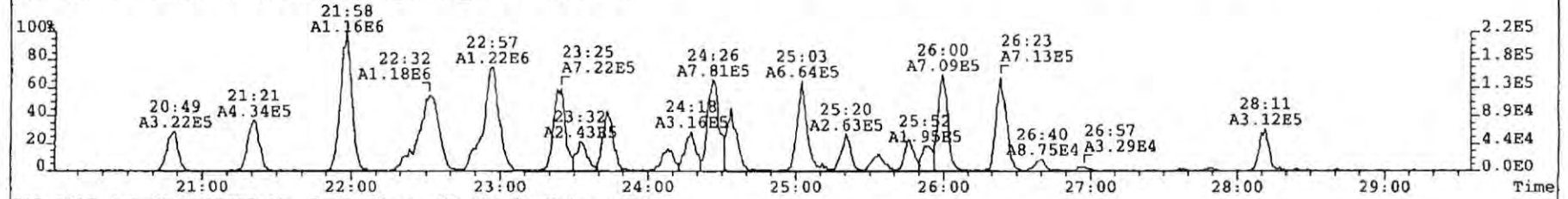
454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



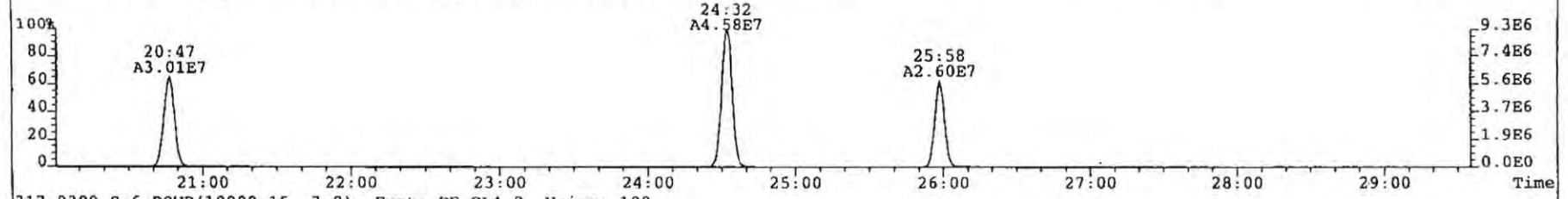
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
303.9016 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 95



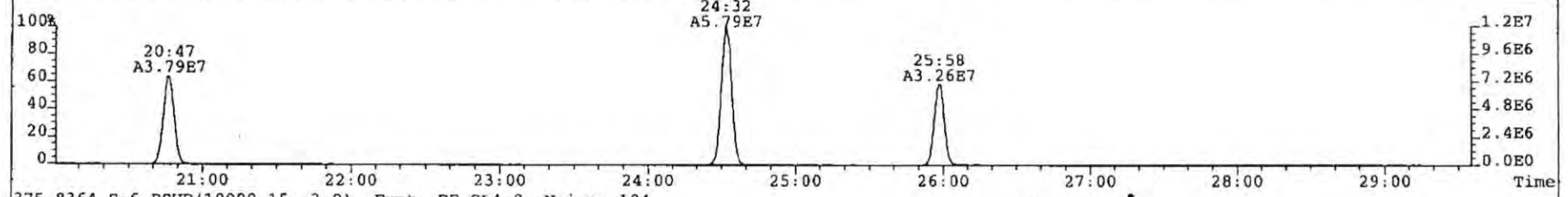
305.8987 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 108



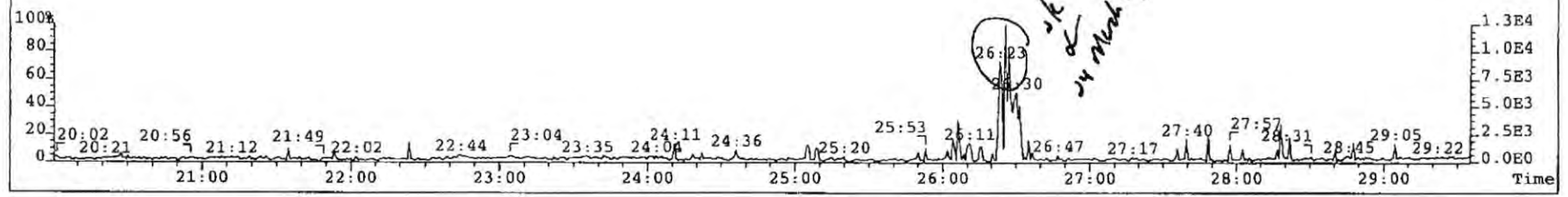
315.9419 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 498



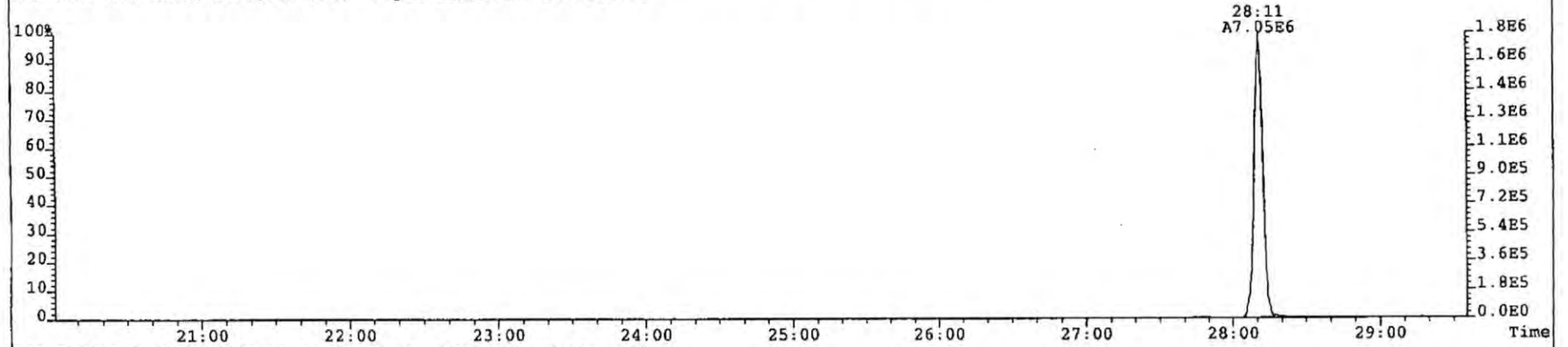
317.9389 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 109



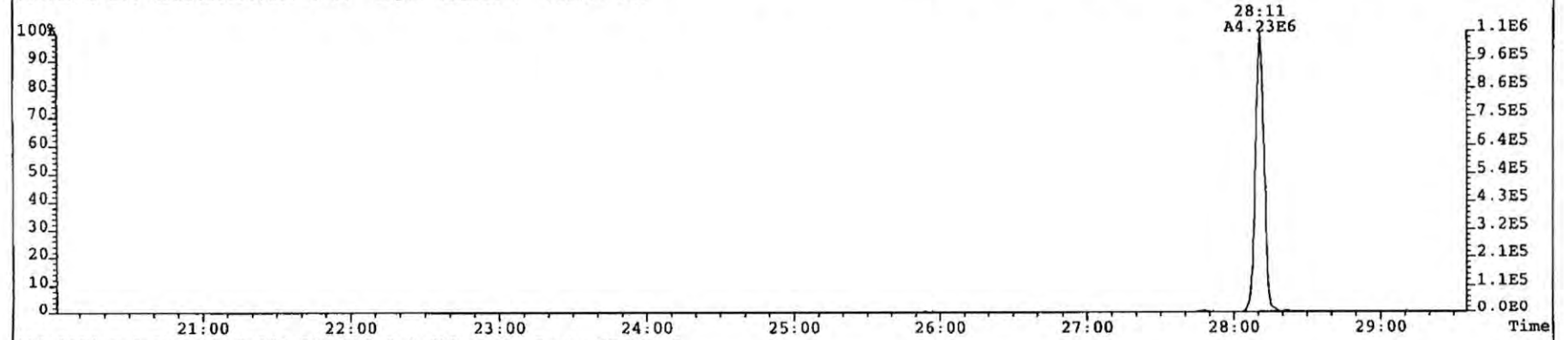
375.8364 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 104



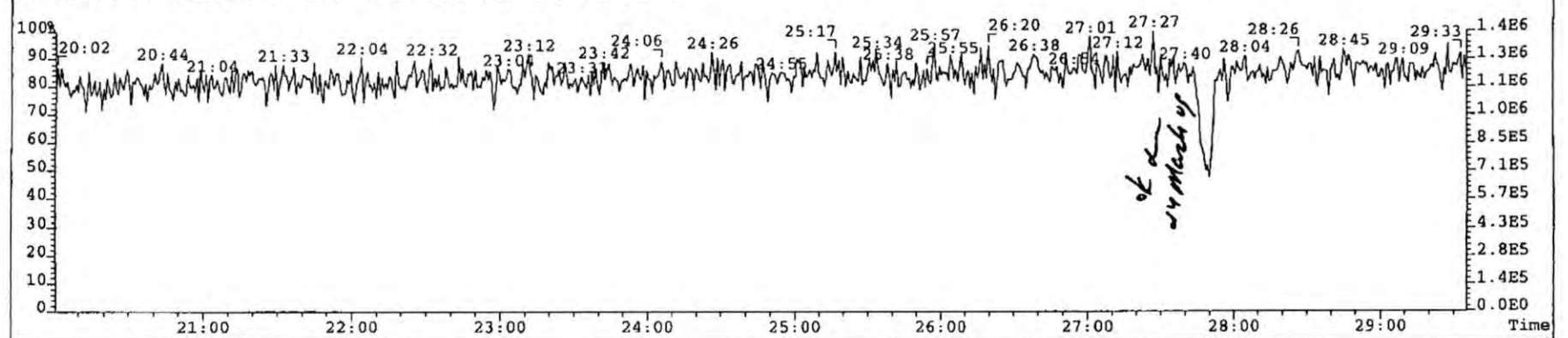
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
339.8597 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 106



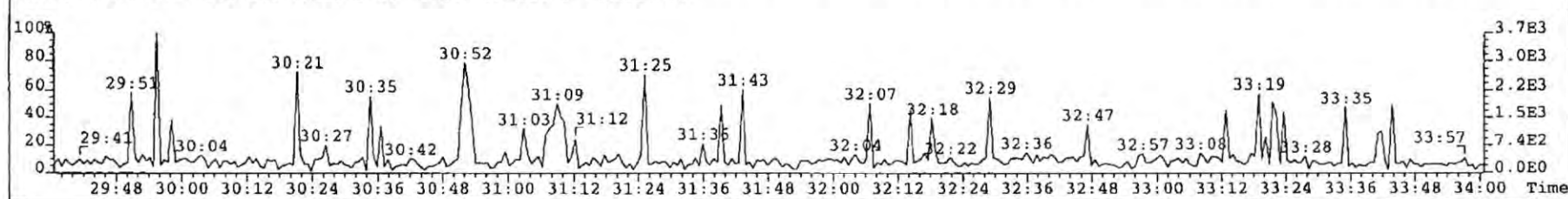
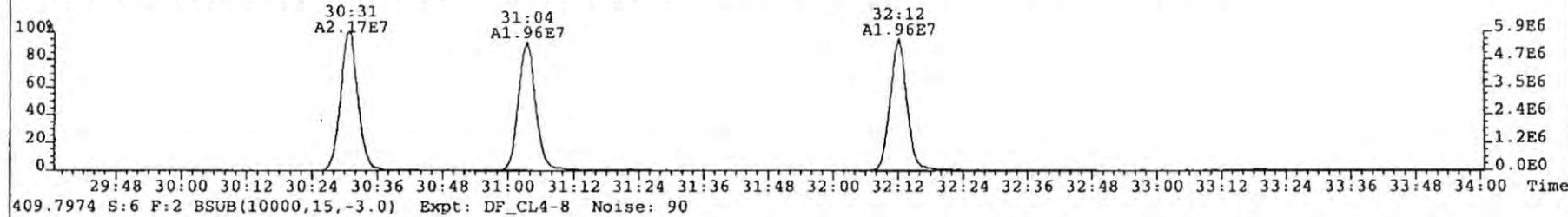
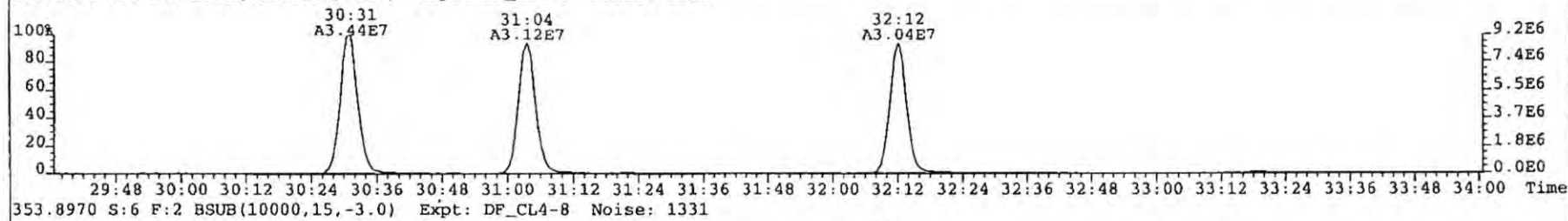
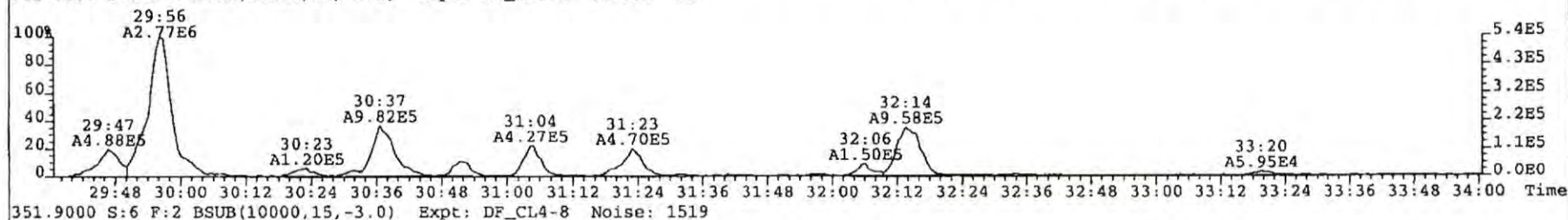
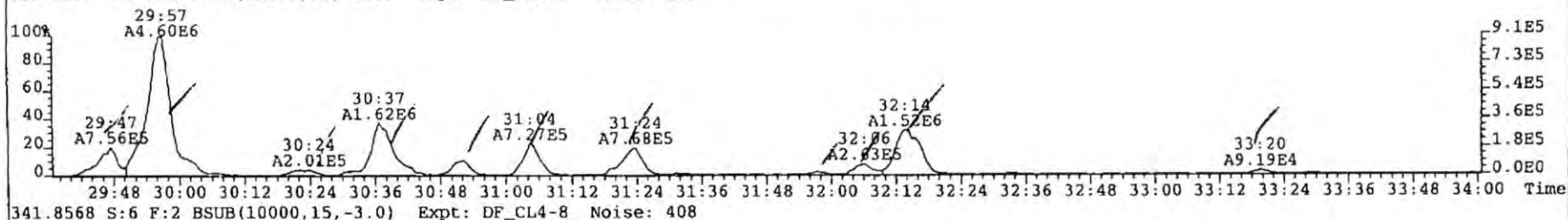
341.8568 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 102



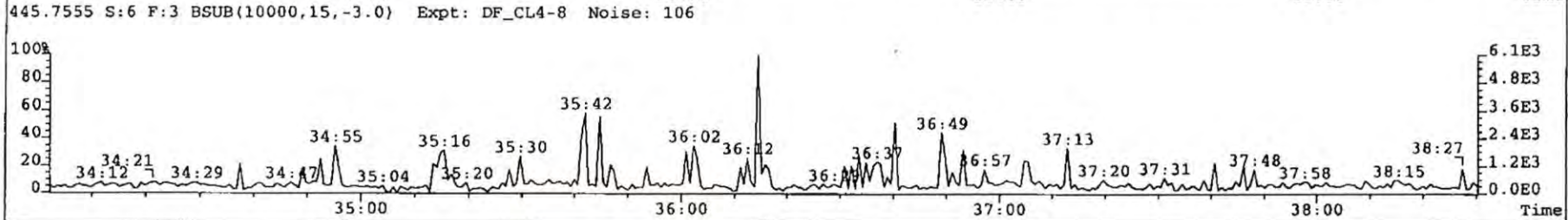
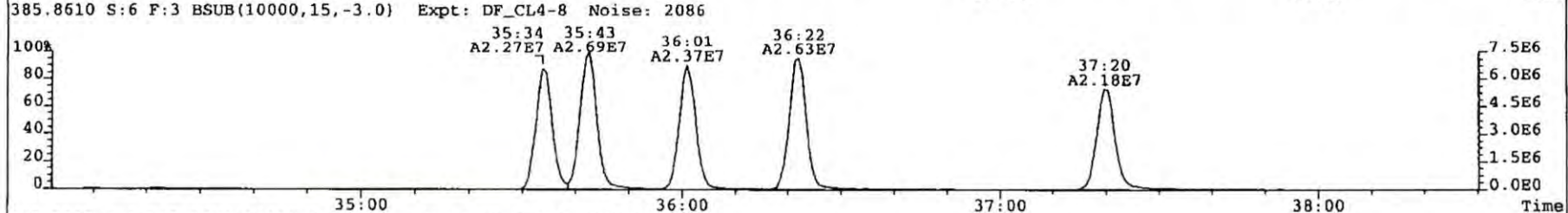
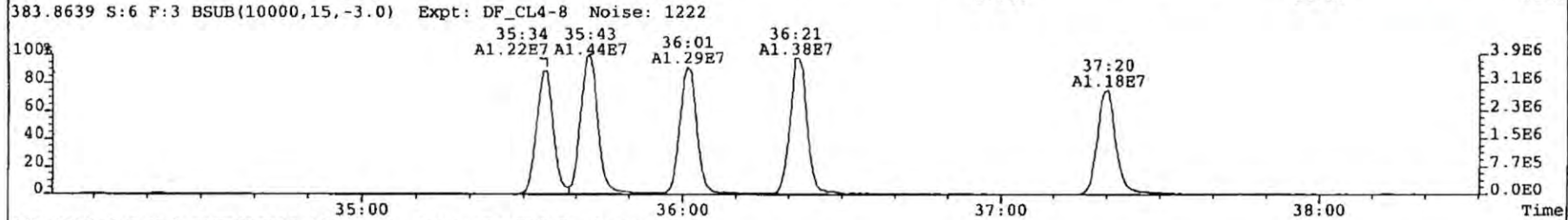
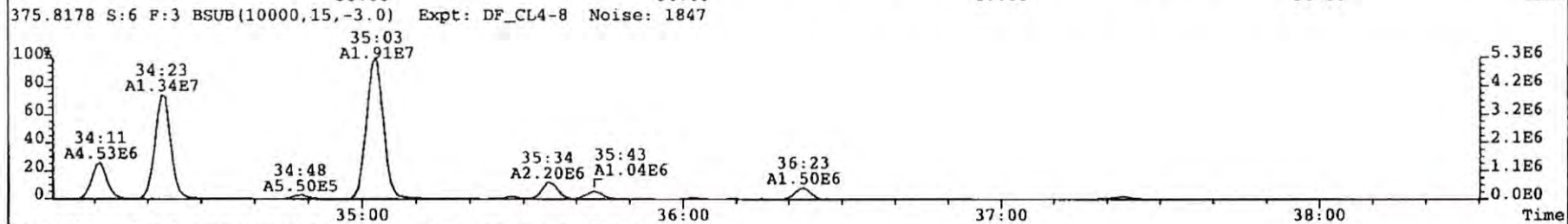
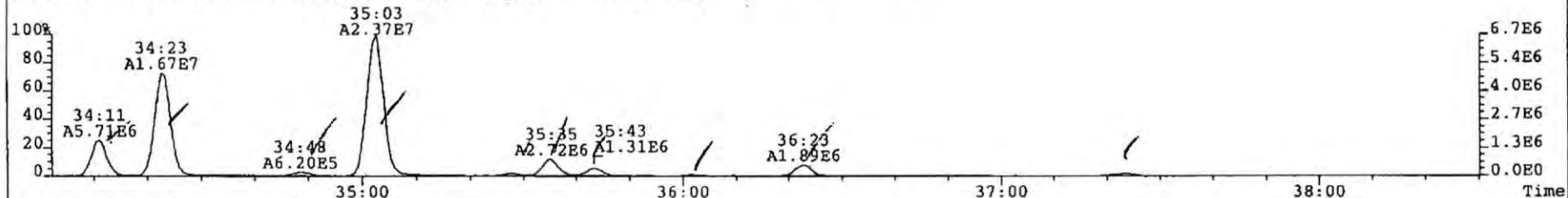
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



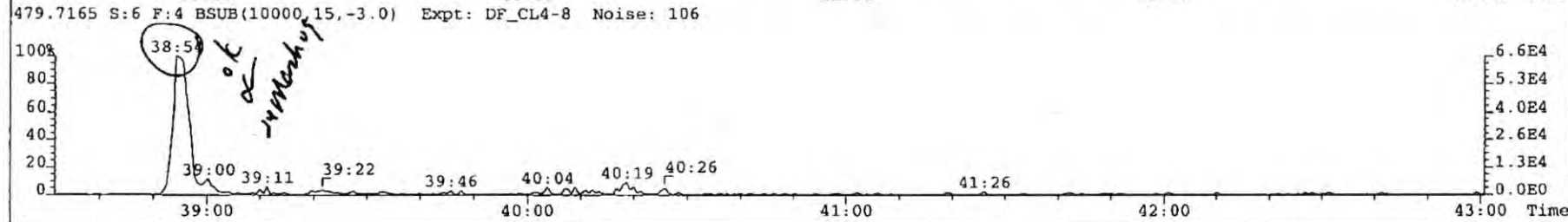
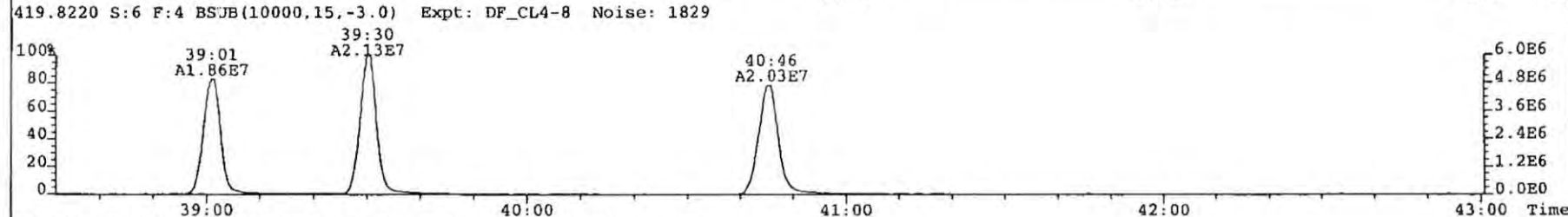
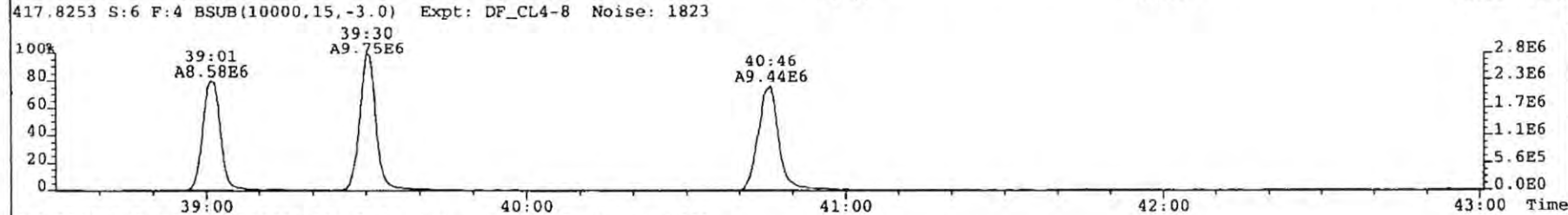
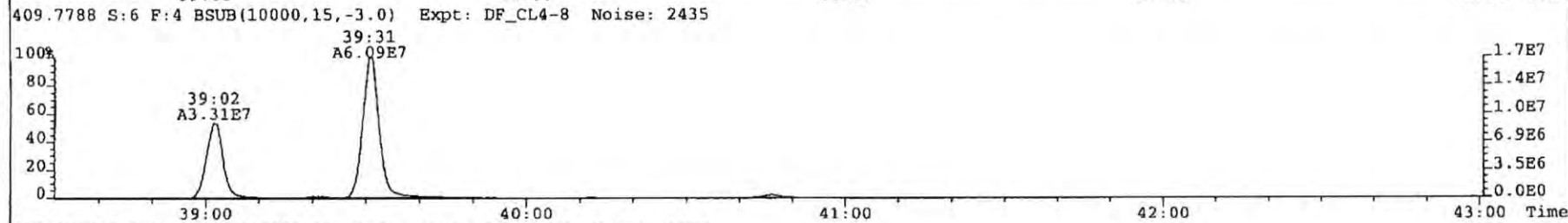
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1057



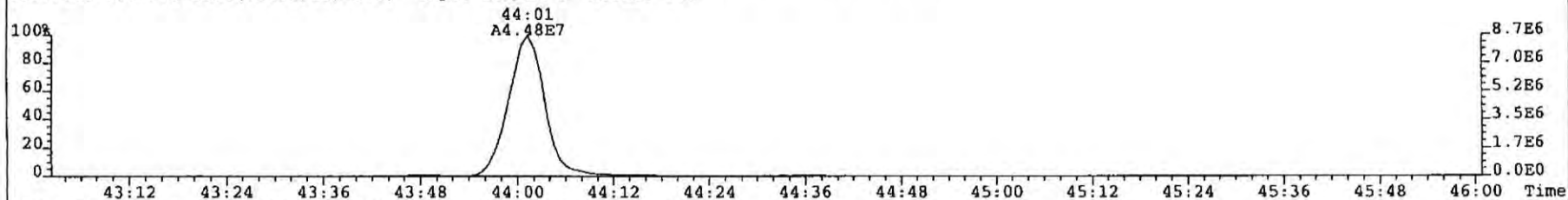
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1370



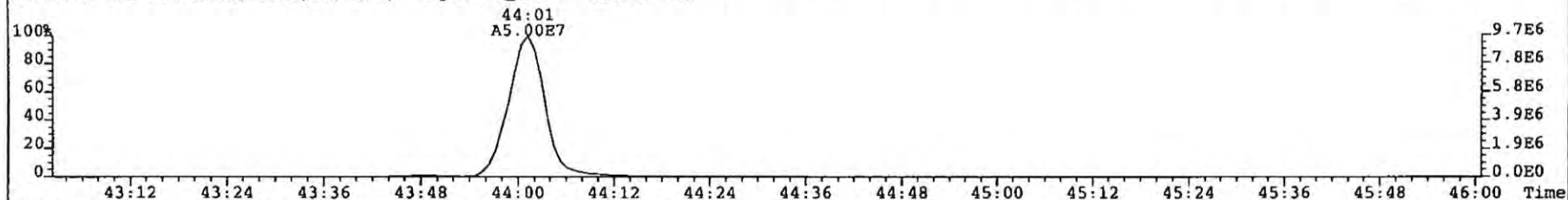
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1895



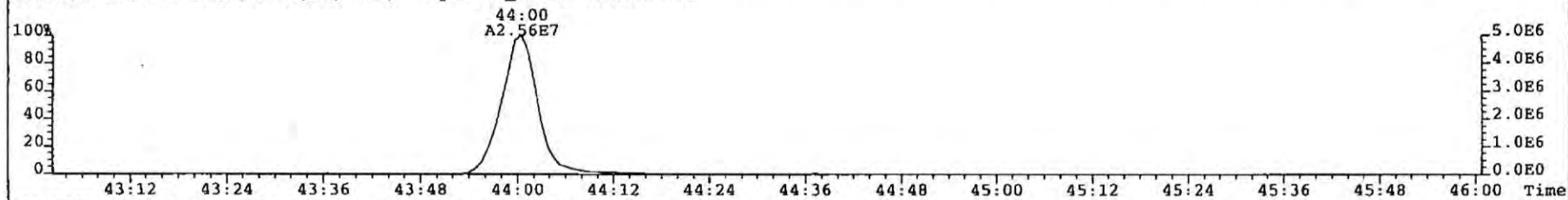
File: 090311P2 Acq: 11-MAR-2009 20:40:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6630_002 PO-BA-25-SS-A-090226 10.93g Vial# 94 File Text: AP DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 970



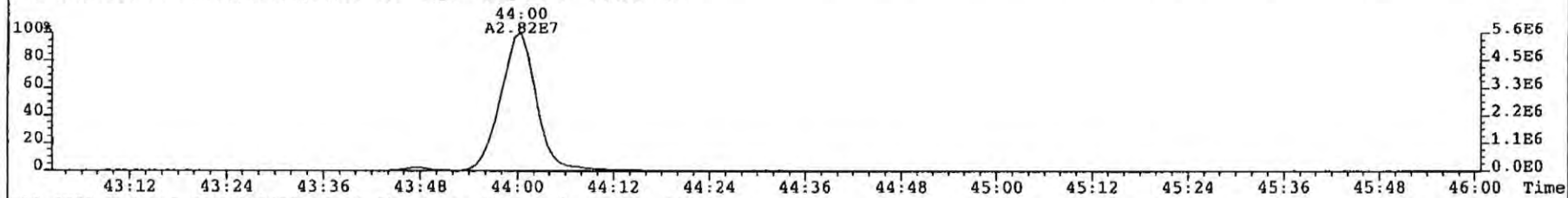
443.7398 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 707



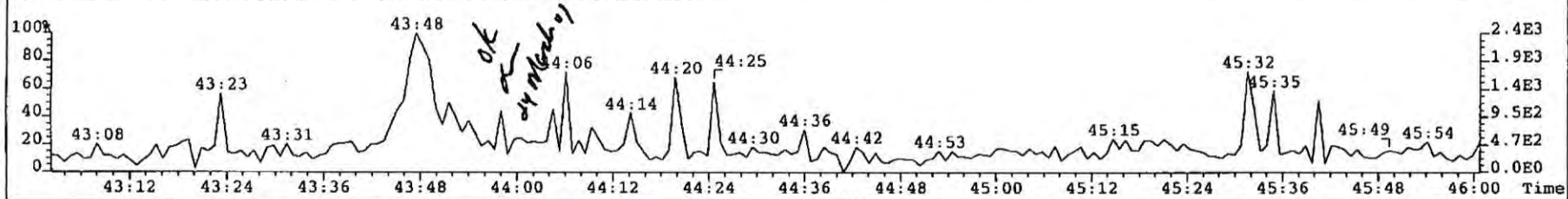
453.7830 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 491



455.7801 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 68



513.6775 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 114



1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: 0_6682_MB001 ✓
 Lab ID: MBl_6682_DF_SDS
 Sample text: MBl_6682_DF_SDS 0_6682_MB001 ✓
 Filename: 090323P2
 GC column ID: db-5
 S: 4 Vial: 31 Acq: 23-MAR-09 23:48:28
 Cal: MM1_DF_07012007A_25DEC08wt/Vol: 10.00
 Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000 ✓

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	*	* n	NotF»	1.08	*	592	2.5	0.0456	-
Ax	1,2,3,7,8-PeCDD	*	* n	NotF»	1.00	*	543	2.5	0.0664	-
Ax	1,2,3,4,7,8-HxCDD	*	* n	NotF»	1.08	*	958	2.5	0.102	-
Ax	1,2,3,6,7,8-HxCDD	*	* n	NotF»	0.94	*	958	2.5	0.124	-
Ax	1,2,3,7,8,9-HxCDD	*	* n	NotF»	0.99	*	958	2.5	0.122	-
Ax	1,2,3,4,6,7,8-HpCDD	*	* n	NotF»	0.97	*	676	2.5	0.0866	-
Ax	OCDD	*	* n	NotF»	1.06	*	205	2.5	0.0458	-
Ax2	OCDD-a	*	* n	NotF»	0.06	*	3557	2.5	13.3	-
Ax	2,3,7,8-TCDF	*	* n	NotF»	1.05	*	841	2.5	0.0439	-
Ax	1,2,3,7,8-PeCDF	*	* n	NotF»	0.98	*	1326	2.5	0.0940	-
Ax	2,3,4,7,8-PeCDF	*	* n	NotF»	1.01	*	1326	2.5	0.0892	-
Ax	1,2,3,4,7,8-HxCDF	*	* n	NotF»	1.22	*	960	2.5	0.0446	-
Ax	1,2,3,6,7,8-HxCDF	*	* n	NotF»	1.15	*	960	2.5	0.0407	-
Ax	2,3,4,6,7,8-HxCDF	*	* n	NotF»	1.13	*	960	2.5	0.0446	-
Ax	1,2,3,7,8,9-HxCDF	*	* n	NotF»	1.12	*	960	2.5	0.0617	-
Ax	1,2,3,4,6,7,8-HpCDF	*	* n	NotF»	1.37	*	2250	2.5	0.117	-
Ax	1,2,3,4,7,8,9-HpCDF	*	* n	NotF»	1.32	*	2250	2.5	0.169	-
Ax	OCDF	*	* n	NotF»	0.94	*	1565	2.5	0.256	-
Ax2	OCDF-a	*	* n	NotF»	0.05	*	2754	2.5	8.00	-
ES	13C-2,3,7,8-TCDD	4.42e+07	0.82 y	27:15	0.99	162	1591	2.5	0.118	81.0
ES	13C-1,2,3,7,8-PeCDD	3.86e+07	1.65 y	32:49	0.83	168	3529	2.5	0.311	84.2
ES	13C-1,2,3,4,7,8-HxCDD	3.47e+07	1.28 y	36:45	1.08	166	10375	2.5	1.07	83.2
ES	13C-1,2,3,6,7,8-HxCDD	3.62e+07	1.28 y	36:52	1.23	153	10375	2.5	0.947	76.7
ES	13C-1,2,3,7,8,9-HxCDD	3.66e+07	1.31 y	37:10	1.21	157	10375	2.5	0.959	78.6
ES	13C-1,2,3,4,6,7,8-HpCDD	3.38e+07	1.07 y	40:22	0.98	178	9095	2.5	1.03	89.2
ES	13C-OCDD	4.16e+07	0.87 y	43:59	0.66	328	8782	2.5	1.49	82.0
ES	13C-2,3,7,8-TCDF	7.28e+07	0.81 y	26:20	0.96	193	2167	2.5	0.119	96.3
ES	13C-1,2,3,7,8-PeCDF	6.74e+07	1.58 y	31:20	0.85	200	8470	2.5	0.523	99.9
ES	13C-2,3,4,7,8-PeCDF	6.66e+07	1.59 y	32:27	0.88	191	8470	2.5	0.505	95.3
ES	13C-1,2,3,4,7,8-HxCDF	4.59e+07	0.53 y	35:47	1.47	162	19476	2.5	1.48	80.8
ES	13C-1,2,3,6,7,8-HxCDF	5.54e+07	0.53 y	35:55	1.78	162	19476	2.5	1.23	81.1
ES	13C-2,3,4,6,7,8-HxCDF	5.05e+07	0.53 y	36:34	1.61	163	19476	2.5	1.35	81.5
ES	13C-1,2,3,7,8,9-HxCDF	4.39e+07	0.54 y	37:33	1.40	163	19476	2.5	1.56	81.4
ES	13C-1,2,3,4,6,7,8-HpCDF	3.67e+07	0.46 y	39:11	1.16	164	12315	2.5	1.19	82.2
ES	13C-1,2,3,4,7,8,9-HpCDF	3.17e+07	0.46 y	40:57	0.92	179	12315	2.5	1.50	89.4
ES	13C-OCDF	6.63e+07	0.91 y	44:13	1.04	332	12582	2.5	1.36	83.0
CS	37Cl-2,3,7,8-TCDD	1.88e+07		27:17	0.99	69.1			0.168	86.3
CS	13C-1,2,3,4,7-PeCDD	4.31e+07	1.69 y	32:18	0.77	204	3529	2.5	0.337	102
CS	13C-1,2,3,4,6-PeCDF	6.98e+07	1.56 y	30:48	0.79	222	8470	2.5	0.562	111
CS	13C-1,2,3,4,6,9-HxCDF	4.78e+07	0.54 y	36:14	1.41	176	19476	2.5	1.54	87.8
CS	13C-1,2,3,4,6,8,9-HpCDF	3.36e+07	0.46 y	39:41	0.91	192	12315	2.5	1.51	95.9
NA	n/a	*	* n	NotF»	Div0	*	2527	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.49e+07	0.83 y	26:36	-	15.7	1591	2.5	-	-
JS	13C-1,2,3,4-TCDF	7.91e+07	0.79 y	24:56	-	14.2	2167	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.93e+07	1.30 y	37:04	-	8.84	1495	2.5	-	-

ok 24 March 09

ok

Analysis: *[Signature]*
 Date: *[Signature]*

ok 24 March 09

quan on MM1 24-MAR-2009 09:08

checkcode:

SS	37C1-2,3,7,8-TCDD	1.88e+07		27:17	1.00	84.8		0.188	106) MA
SS	13C-1,2,3,4,7-PeCDD	4.31e+07	1.69 y	32:18	0.93	241	3529 2.5	0.464	120	
SS	13C-1,2,3,4,6-PeCDF	6.98e+07	1.56 y	30:48	0.94	221	8470 2.5	0.631	111	
SS	13C-1,2,3,4,6,9-HxCDF	4.78e+07	0.54 y	36:14	0.80	215	19476 2.5	1.19	108	
SS	13C-1,2,3,4,6,8,9-HpCDF	3.36e+07	0.46 y	39:41	0.79	231	12315 2.5	1.11	116	
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	841 2.5	0.0439	-	
Ay	1,3,6,8-TCDD	2.33e+04	0.79 y	23:26	1.08	0.0973	592 2.5	0.0456	-	
Ay	1,2,3,9-TCDD	*	* n	NotF»	1.08	*	592 2.5	0.0456	-	
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	592 2.5	0.0456	-	
Ay	1,2,4,7,9-PeCDD	*	* n	NotF»	1.00	*	543 2.5	0.0664	-	
Ay	1,2,3,8,9-PeCDD	*	* n	NotF»	1.00	*	543 2.5	0.0664	-	
Ay	1,2,4,6,7,9-HxCDD	*	* n	NotF»	1.00	*	958 2.5	0.116	-	
Ay	1,2,3,4,6,7,9-HpCDD	*	* n	NotF»	0.97	*	676 2.5	0.0866	-	
Ay	1,3,6,8-TCDF	*	* n	NotF»	1.05	*	841 2.5	0.0439	-	
Ay	2,3,4,8-TCDF	*	* n	NotF»	1.05	*	841 2.5	0.0439	-	
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	841 2.5	0.0439	-	
Ay	1,3,4,6,8-PeCDF	*	* n	NotF»	1.05	*	2112 2.5	0.110	-	
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	1326 2.5	0.0915	-	
Ay	1,2,3,4,6,8-HxCDF	*	* n	NotF»	1.15	*	960 2.5	0.0472	-	
Tot	Total Tetra-Dioxins	2.33e+04	0.79 y	23:26	1.08	0.0973	592 2.5	0.0456	-	
Tot	Total Penta-Dioxins	*	* n	NotF»	1.00	*	543 2.5	0.0664	-	
Tot	Total Hexa-Dioxins	*	* n	NotF»	1.00	*	958 2.5	0.116	-	
Tot	Total Hepta-Dioxins	*	* n	NotF»	0.97	*	676 2.5	0.0866	-	
Tot	Total Tetra-Furans	*	* n	NotF»	1.05	*	841 2.5	0.0439	-	
Tot	Total Penta-Furans	*	* n	NotF»	1.00	*	1326 2.5	0.0915	-	
Tot	Total Hexa-Furans	*	* n	NotF»	1.15	*	960 2.5	0.0472	-	
Tot	Total Hepta-Furans	*	* n	NotF»	1.35	*	2250 2.5	0.141	-	
Tot	TCDD EMPC	2.33e+04	0.79 y	23:26	1.08	0.0973	592 2.5	0.0456	-	
Tot	PeCDD EMPC	*	* n	NotF»	1.00	*	543 2.5	0.0664	-	
Tot	HxCDD EMPC	*	* n	NotF»	1.00	*	958 2.5	0.116	-	
Tot	HpCDD EMPC	*	* n	NotF»	0.97	*	676 2.5	0.0866	-	
Tot	TCDF EMPC	*	* n	NotF»	1.05	*	841 2.5	0.0439	-	
Tot	PeCDF EMPC	*	* n	NotF»	1.00	*	1326 2.5	0.0915	-	
Tot	HxCDF EMPC	*	* n	NotF»	1.15	*	960 2.5	0.0472	-	
Tot	HpCDF EMPC	*	* n	NotF»	1.35	*	819 2.5	0.0512	-	
AS	13C-1,3,6,8-TCDD	4.71e+07	0.82 y	23:24	1.09	158	1591 2.5	0.108	78.9	
AS	13C-1,3,6,8-TCDF	8.55e+07	0.79 y	21:16	1.09	199	2167 2.5	0.105	99.3	
DPE	HxCDFPE	*		NotF»	-	*	-	-	-	
DPE	HpCDFPE	*		NotF»	-	*	-	-	-	
DPE	OCDFPE	*		NotF»	-	*	-	-	-	
DPE	NCDPE	*		NotF»	-	*	-	-	-	
DPE	DCDFPE	*		NotF»	-	*	-	-	-	
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 11 Checkcode: 0433
 File Name: 090323P2 Sample #: 4 Sample text: MB1_6682_DF_SDS 0_6682_MB001

Acquired: 23-MAR-09 23:48:28 Processed: 24-MAR-09 08:54:33

Total Conc.: 0.097286 Unnamed Conc.: * Homolog count: 1 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
23:26	1.027e+04	y	1.302e+04	y	0.79	y	2.329e+04	2.329e+04	6.61e+00	y	0.0973	1,3,6,8-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 11 Checkcode: 0433
 File Name: 090323P2 Sample #: 4 Sample text: MB1_6682_DF_SDS 0_6682_MB001

Acquired: 23-MAR-09 23:48:28 Processed: 24-MAR-09 08:54:33

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF*	* n		* n		* n	*		* *	n	*

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 11 Checkcode: 0433
 File Name: 090323P2 Sample #: 4 Sample text: MB1_6682_DF_SDS 0_6682_MB001

Acquired: 23-MAR-09 23:48:28 Processed: 24-MAR-09 08:54:33

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF*	* n		* n		* n	*		* *	n	*

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 11 Checkcode: 0433
 File Name: 090323P2 Sample #: 4 Sample text: MB1_6682_DF_SDS 0_6682_MB001

Acquired: 23-MAR-09 23:48:28 Processed: 24-MAR-09 08:54:33

Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF*	* n		* n		* n	*		* *	n	*

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 11 Checkcode: 0433
 File Name: 090323P2 Sample #: 4 Sample text: MB1_6682_DF_SDS 0_6682_MB001

Acquired: 23-MAR-09 23:48:28 Processed: 24-MAR-09 08:54:33

Total Conc.: * Unnamed Conc.: * Homolog count: 0

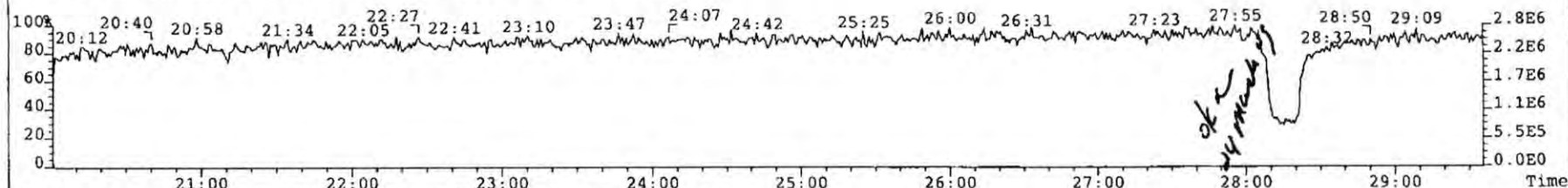
RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF» * n * n * n * * * n *
Totals Results Analytical Perspectives [Form: TOT] ✓
Totals class: PeCDF EMPC Function: 2 Run #: 11 Checkcode: 0433
File Name: 090323P2 Sample #: 4 Sample text: MB1_6682_DF_SDS 0_6682_MB001
Acquired: 23-MAR-09 23:48:28 Processed: 24-MAR-09 08:54:33
Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF» * n * n * n * * * n *
Totals Results Analytical Perspectives [Form: TOT]
Totals class: HxCDF EMPC Function: 3 Run #: 11 Checkcode: 0433
File Name: 090323P2 Sample #: 4 Sample text: MB1_6682_DF_SDS 0_6682_MB001
Acquired: 23-MAR-09 23:48:28 Processed: 24-MAR-09 08:54:33
Total Conc.: * Unnamed Conc.: * Homolog count: 0

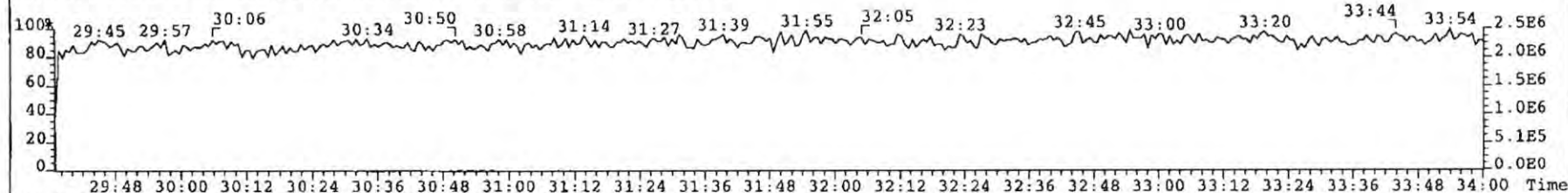
RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF» * n * n * n * * * n *
Totals Results Analytical Perspectives [Form: TOT]
Totals class: HpCDF EMPC Function: 4 Run #: 11 Checkcode: 0433
File Name: 090323P2 Sample #: 4 Sample text: MB1_6682_DF_SDS 0_6682_MB001
Acquired: 23-MAR-09 23:48:28 Processed: 24-MAR-09 08:54:33
Total Conc.: * Unnamed Conc.: * Homolog count: 0

RT m1 Resp mod. m2 Resp mod. RA Resp Adj_Resp S/N Conc. Name
NotF» * n * n * n * * * n *

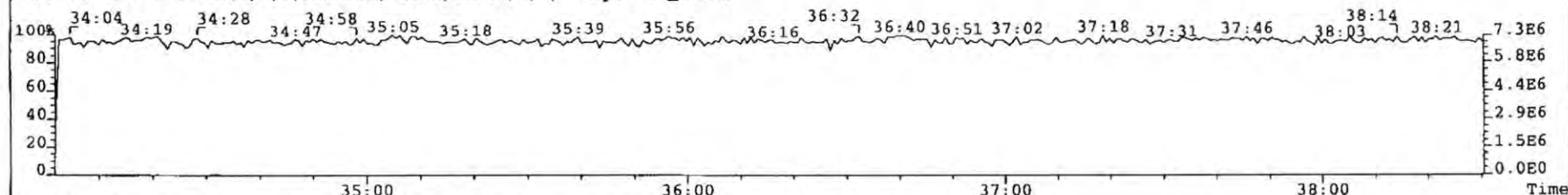
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBL_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



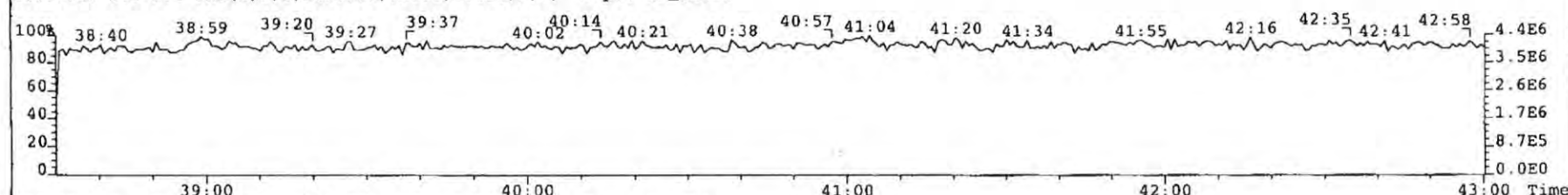
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



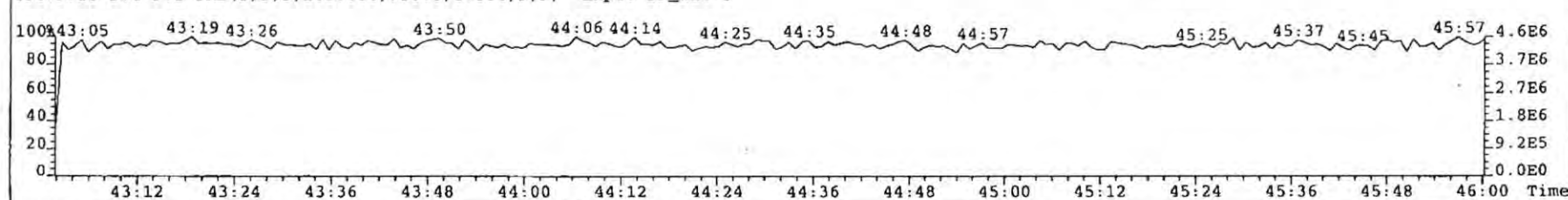
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



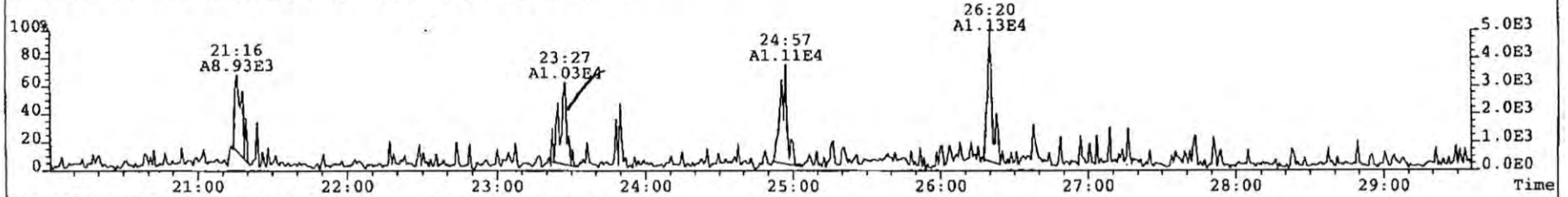
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



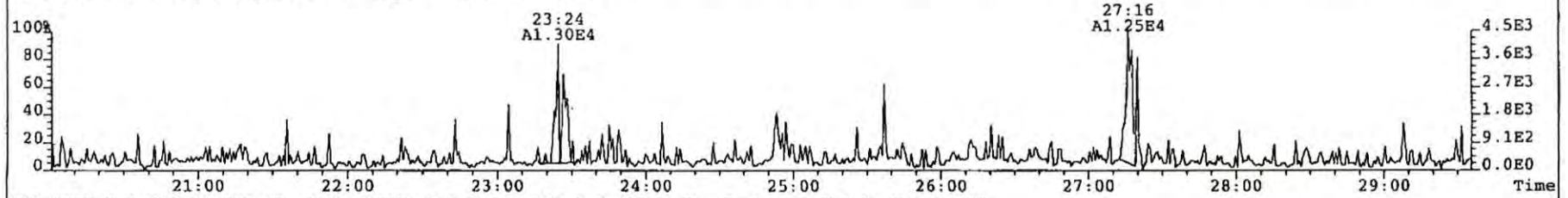
454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



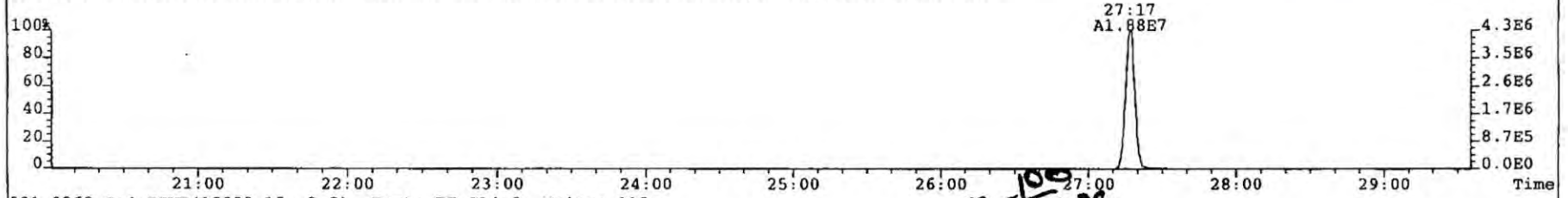
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 4 Text: MB1_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
 319.8965 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 74



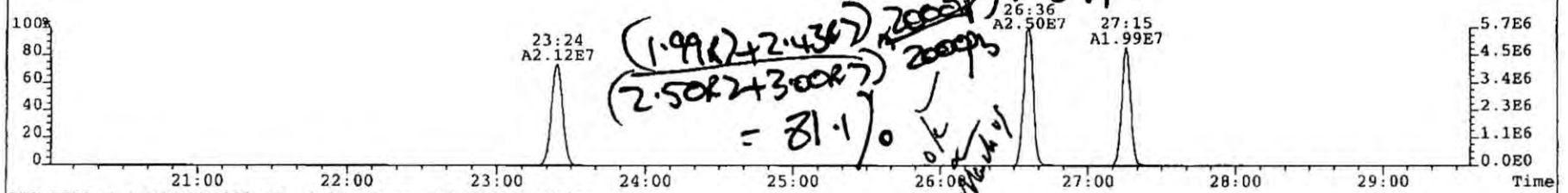
321.8936 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 81



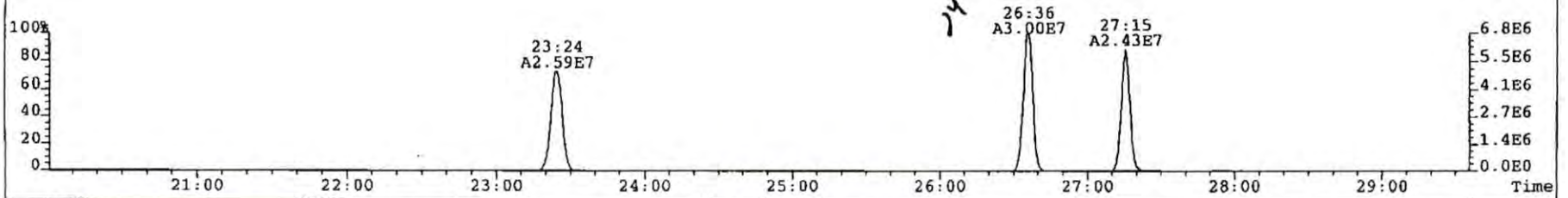
327.8850 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 97



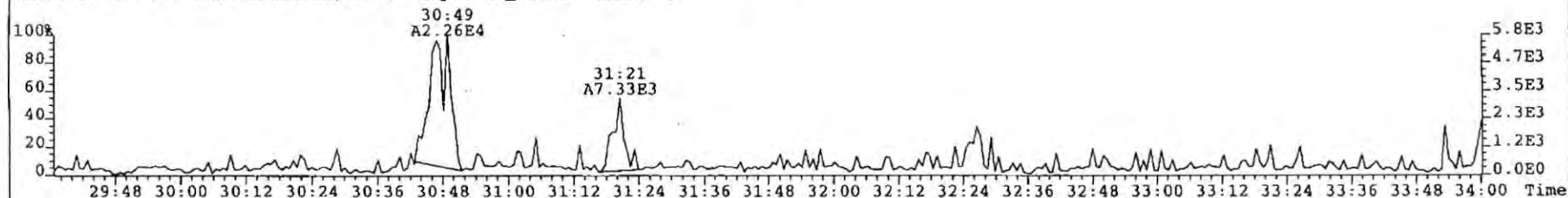
331.9368 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 110



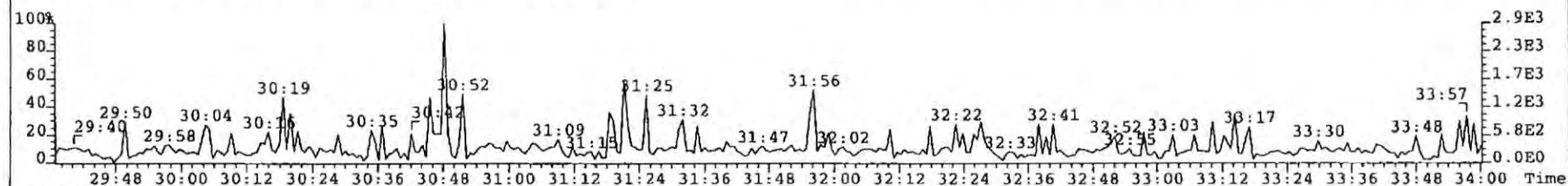
333.9339 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 99



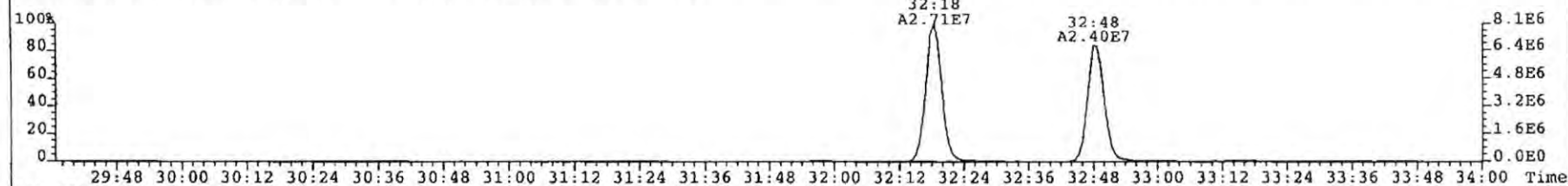
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBL_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
355.8546 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 90



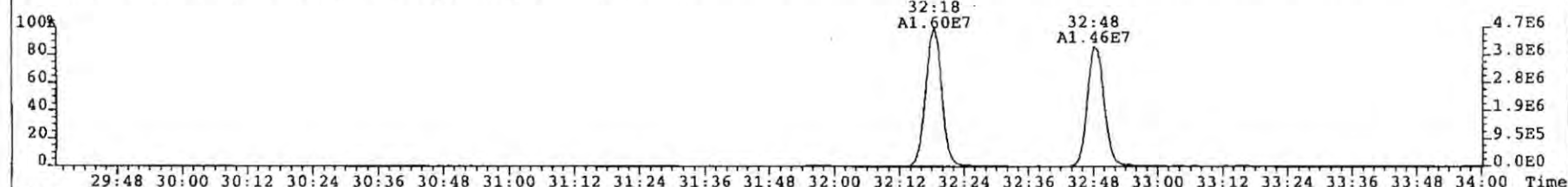
357.8517 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 77



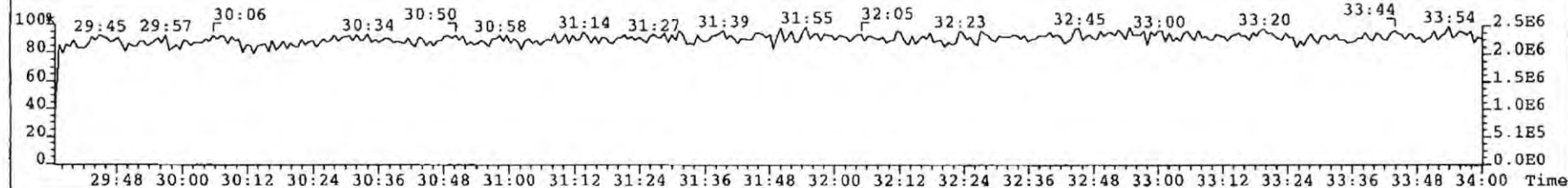
367.8949 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 126



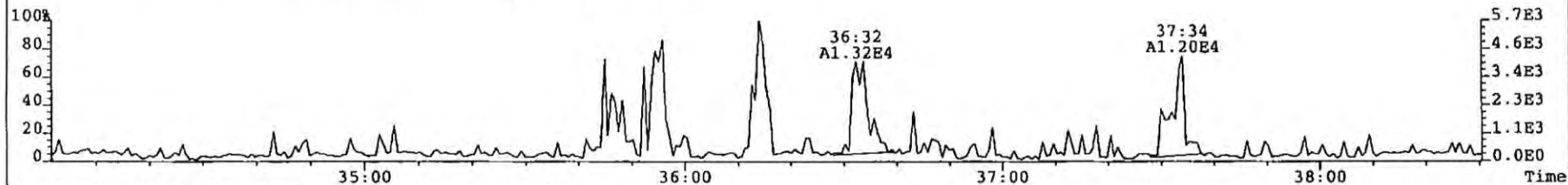
369.8919 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 121



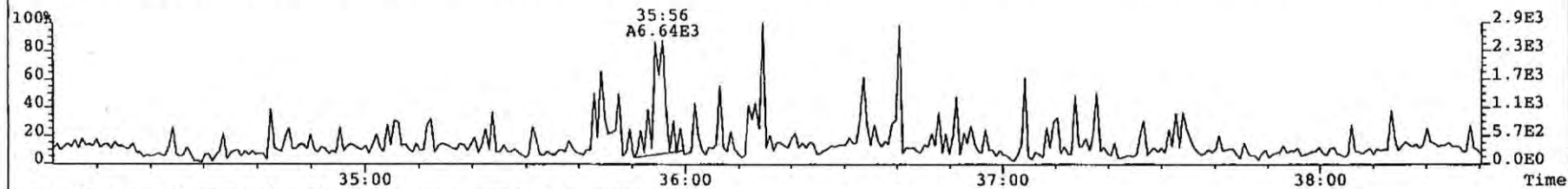
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



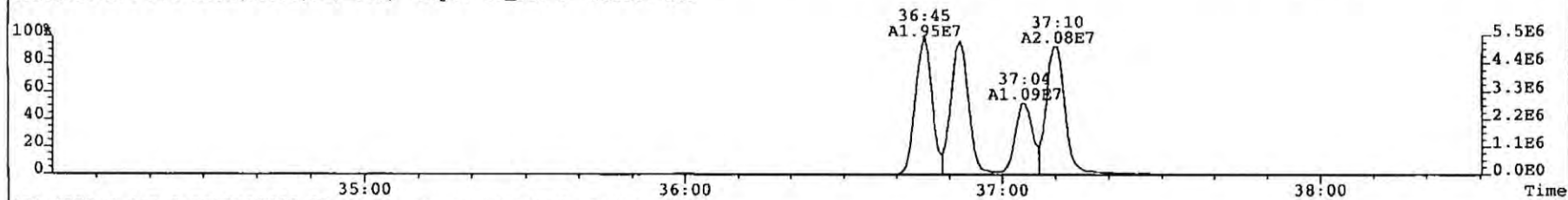
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBI_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DBS
389.8156 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 82



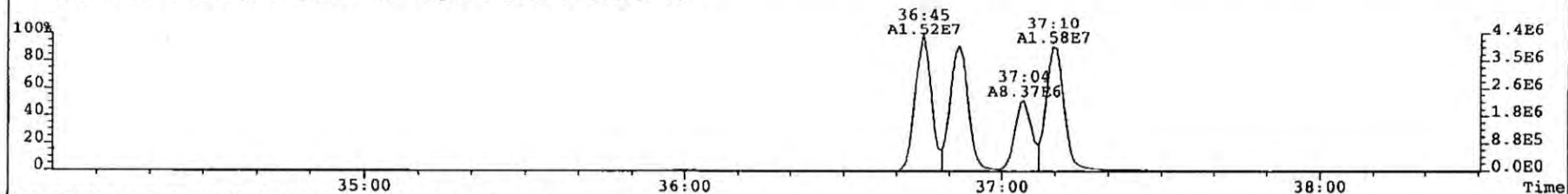
391.8127 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 92



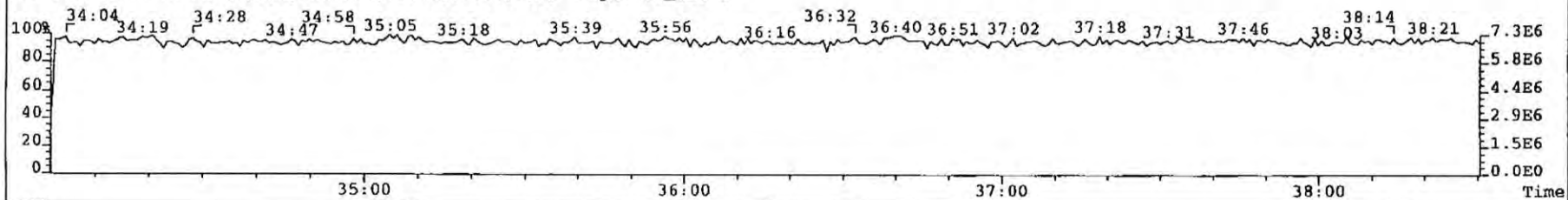
401.8559 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 109



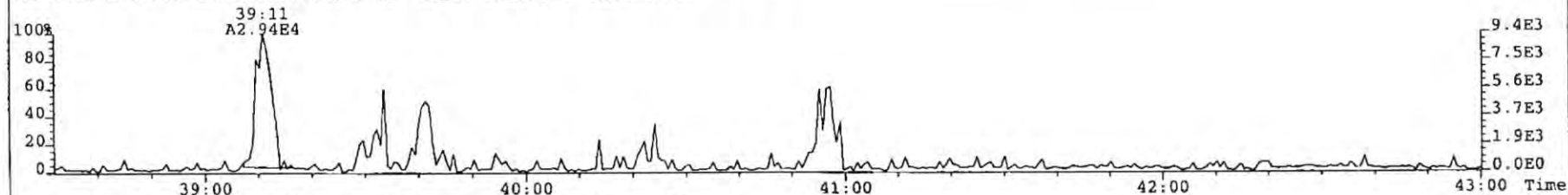
403.8530 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



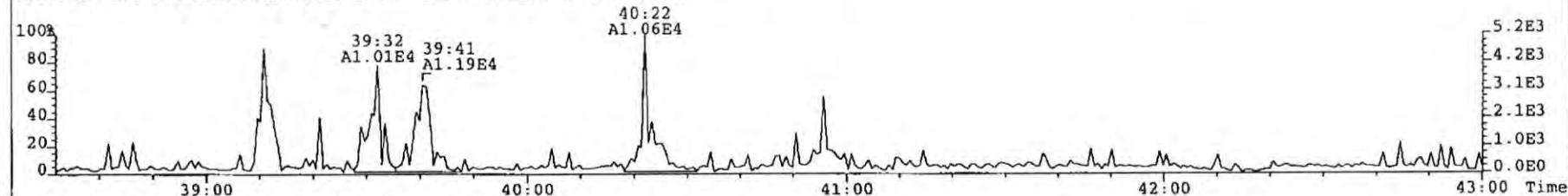
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



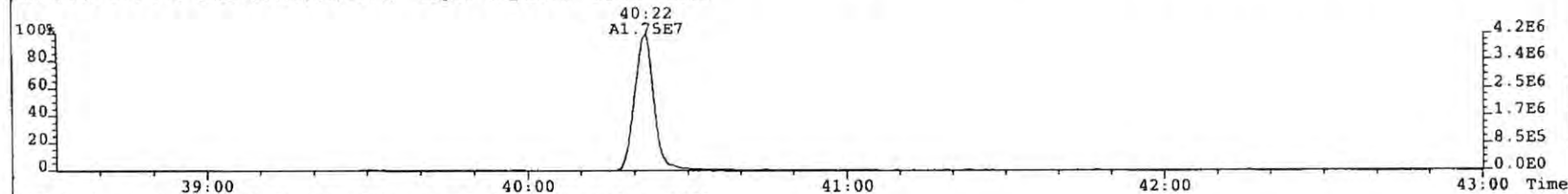
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 73



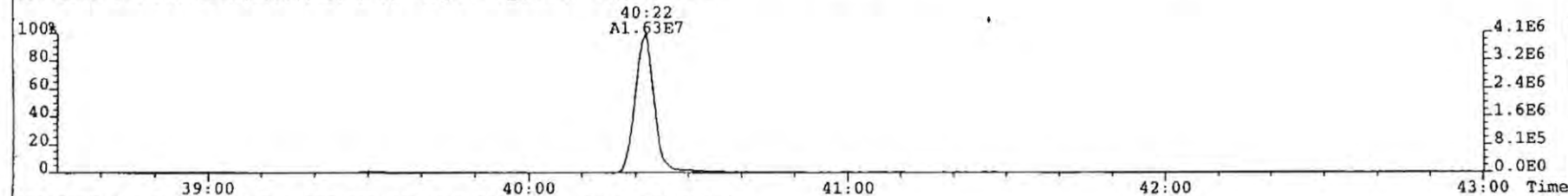
425.7737 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 76



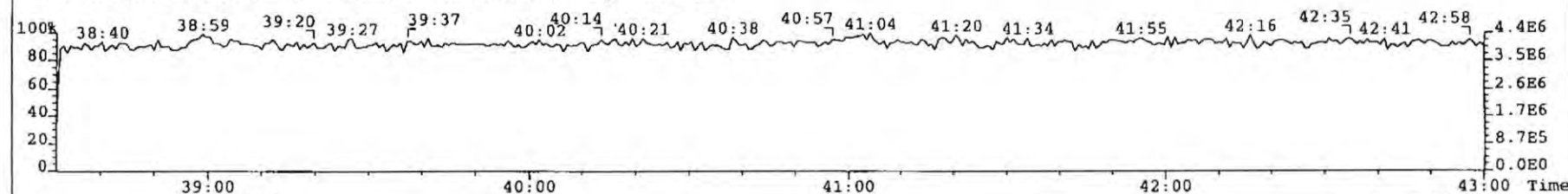
435.8169 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1609



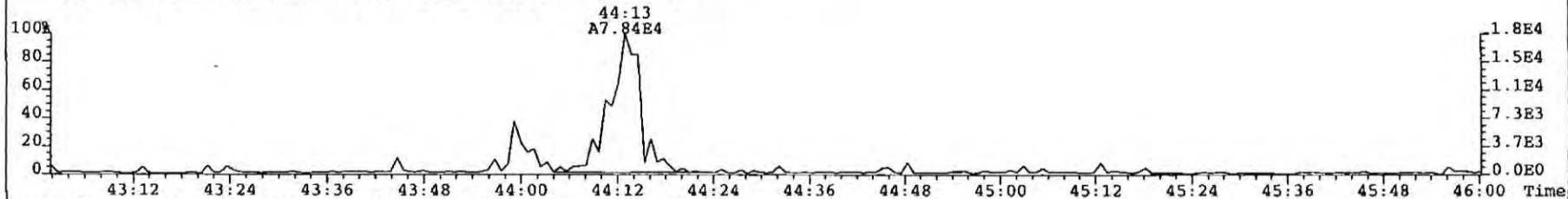
437.8140 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1485



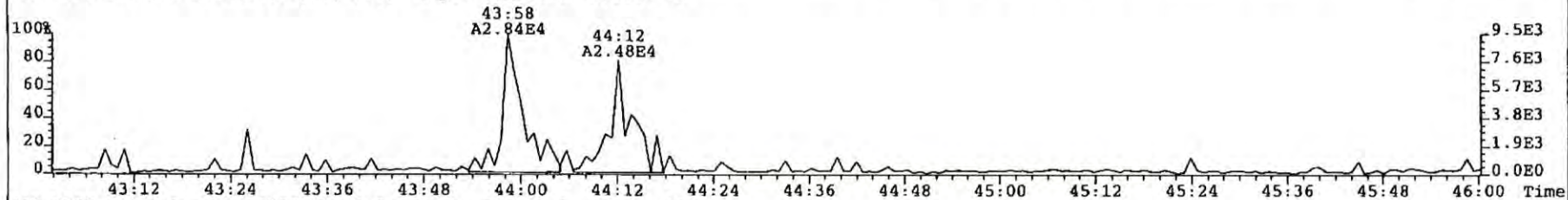
430.9728 S:4 F:4 PKD(5.5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



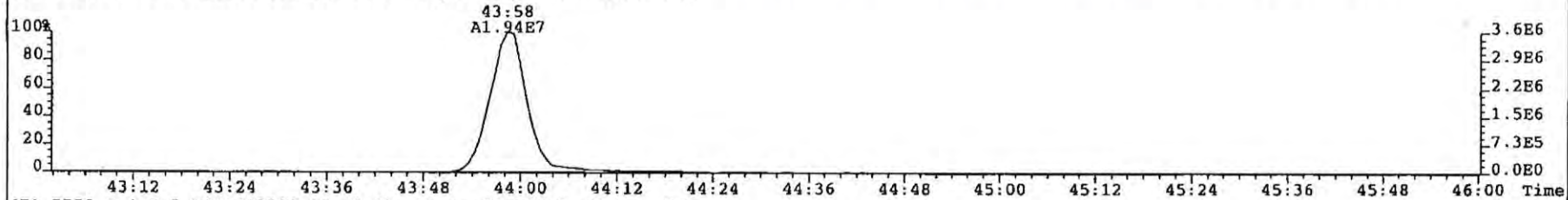
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBL_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 83



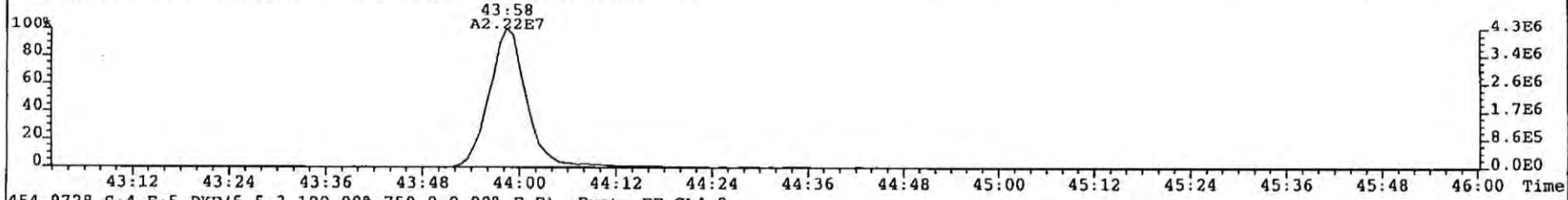
459.7348 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 79



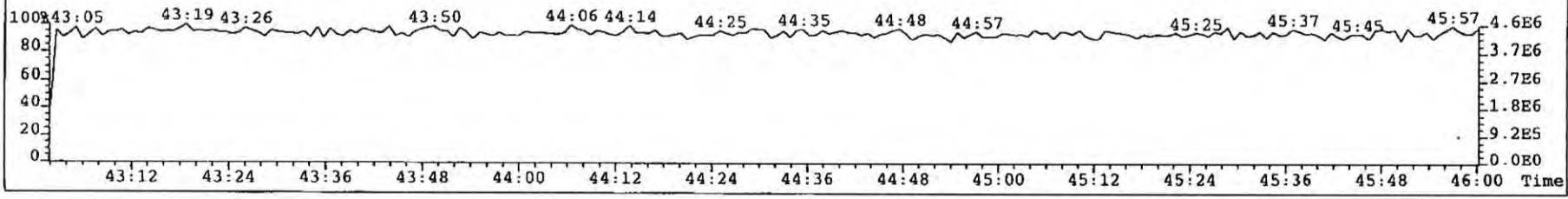
469.7780 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 100



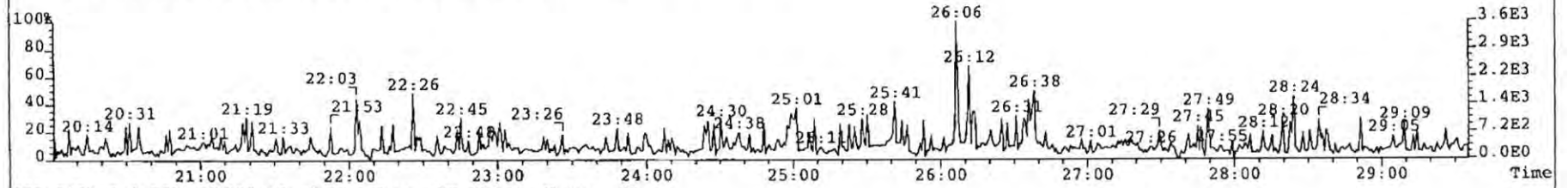
471.7750 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 278



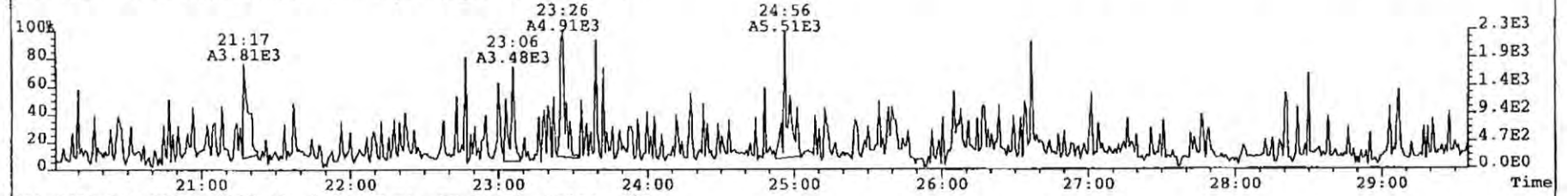
454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



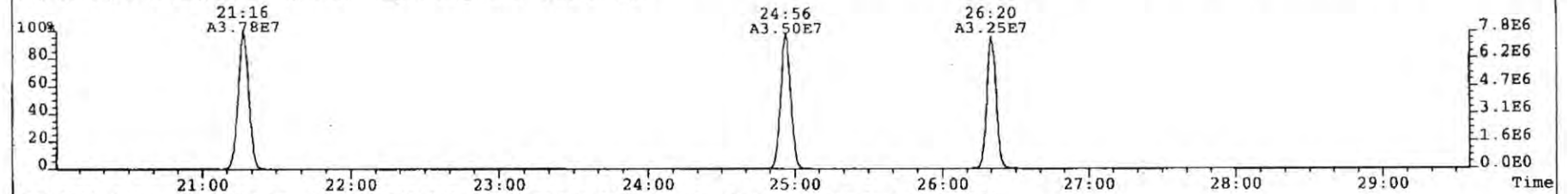
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
303.9016 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 85



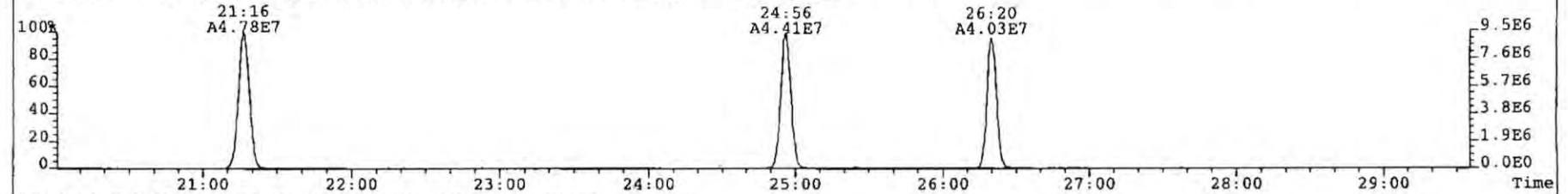
305.8987 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 83



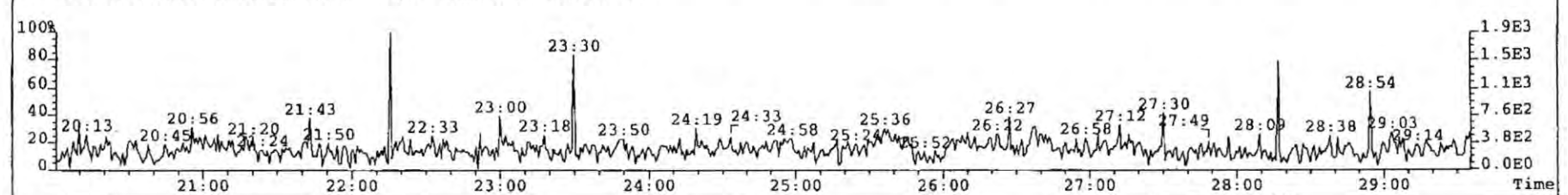
315.9419 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 107



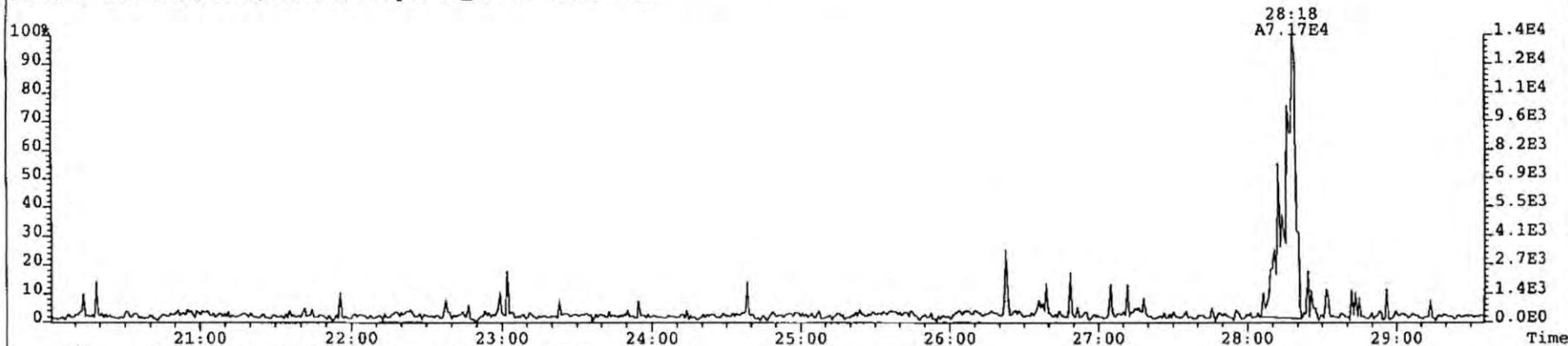
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 106



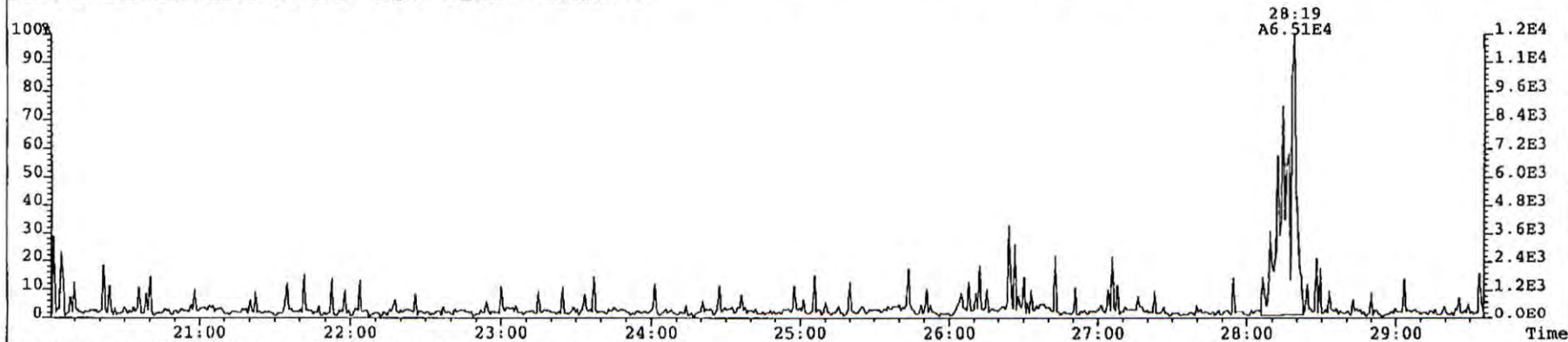
375.8364 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 87



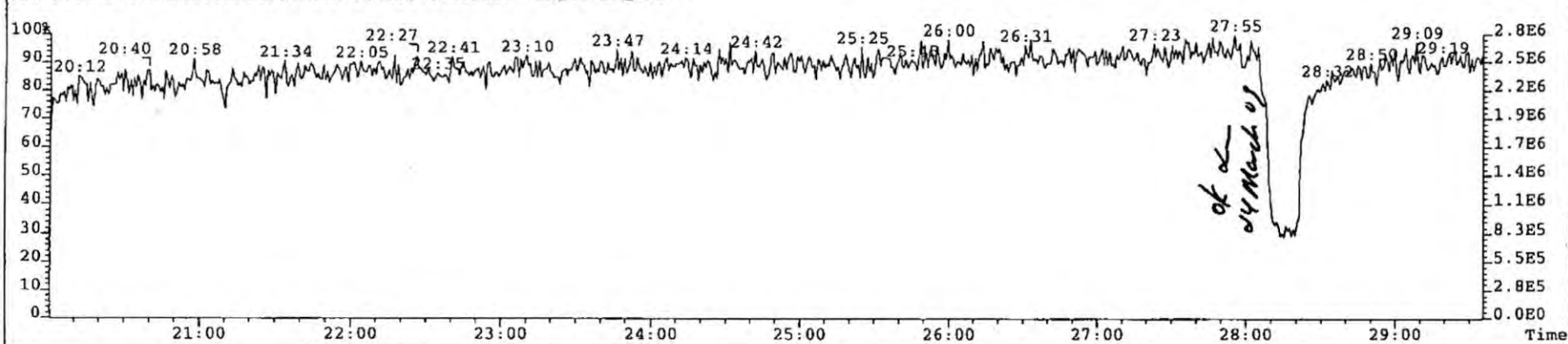
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MBI_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
339.8597 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 103



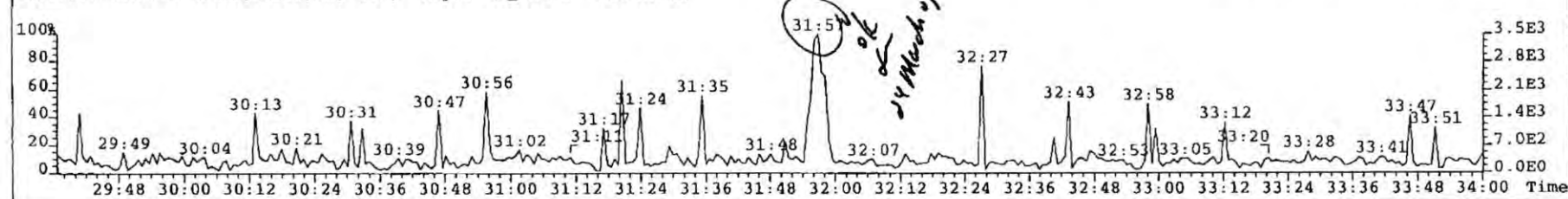
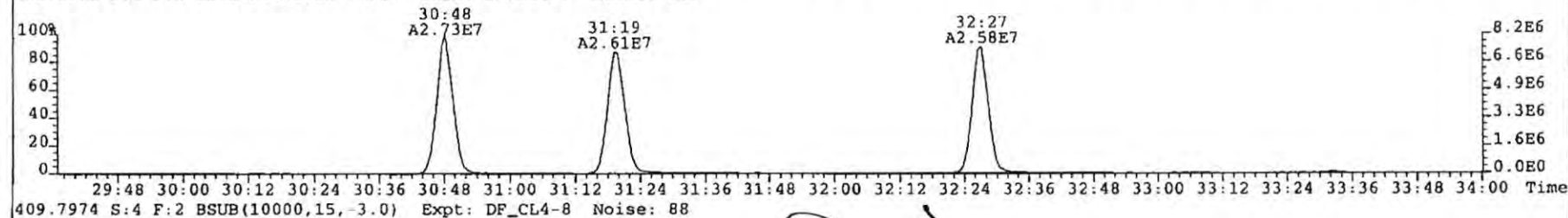
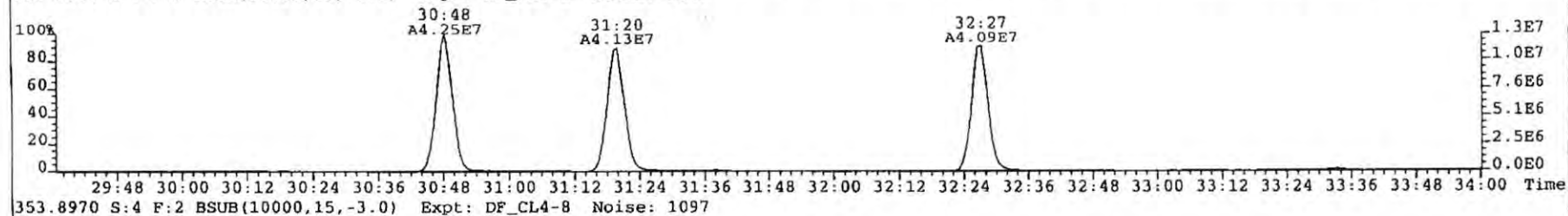
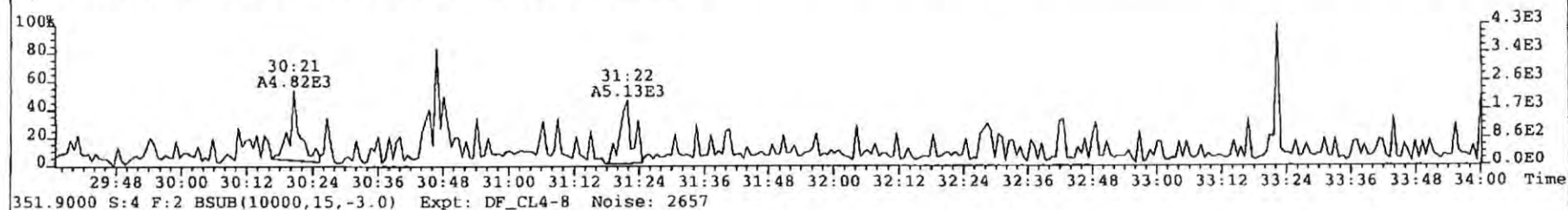
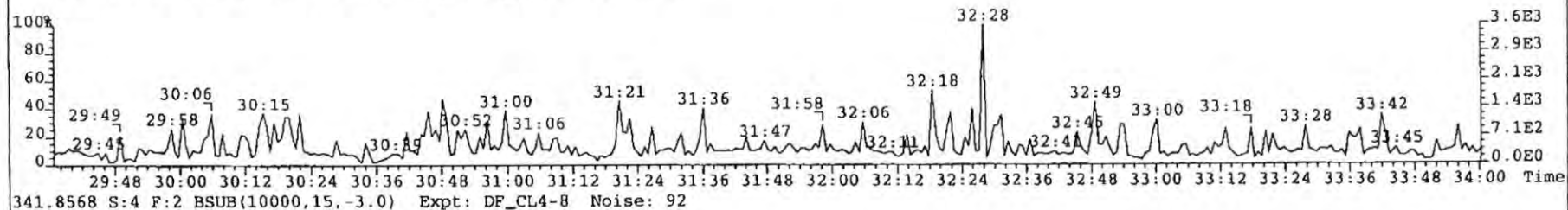
341.8568 S:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



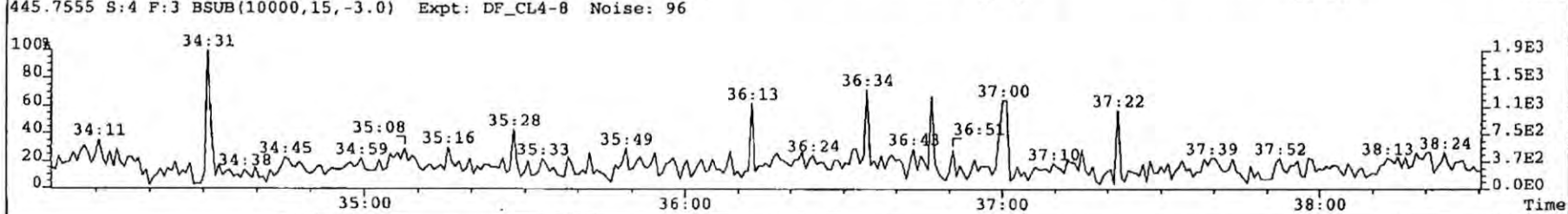
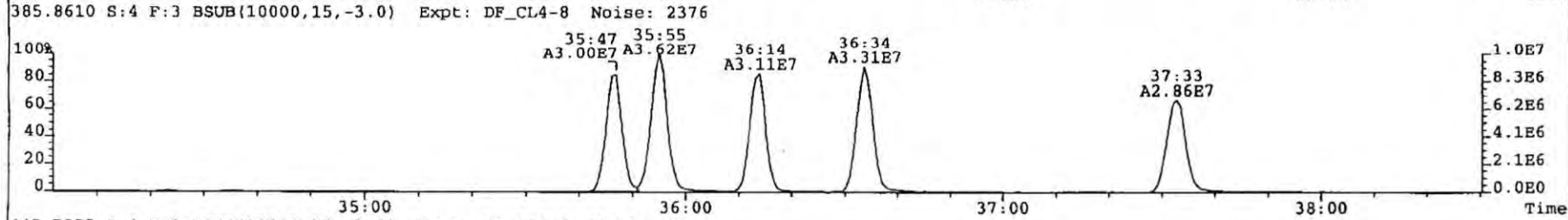
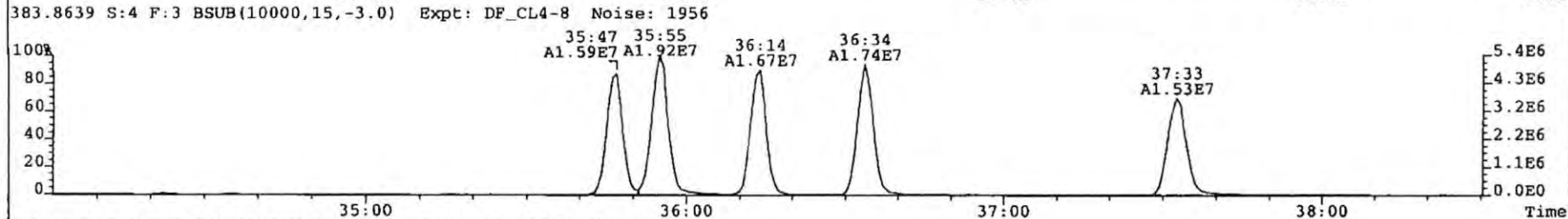
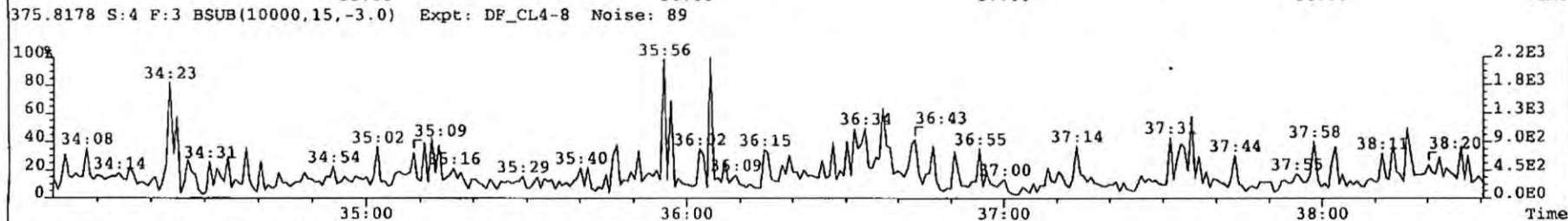
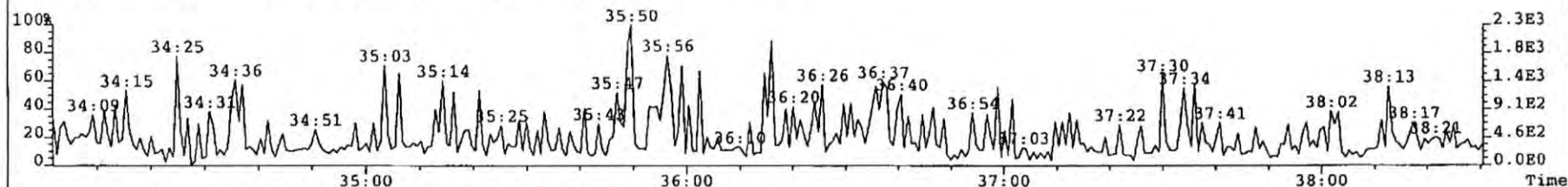
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



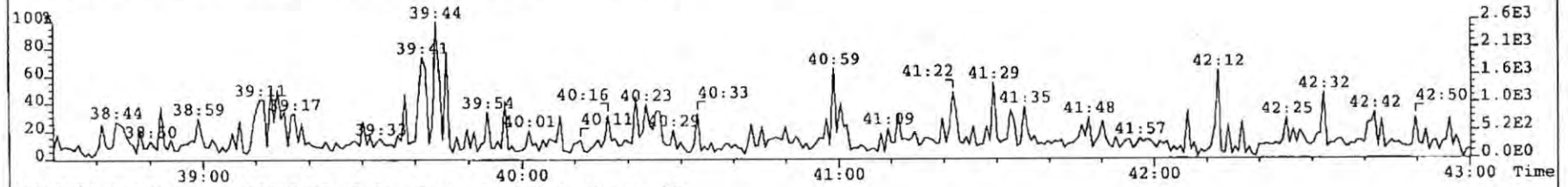
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 102



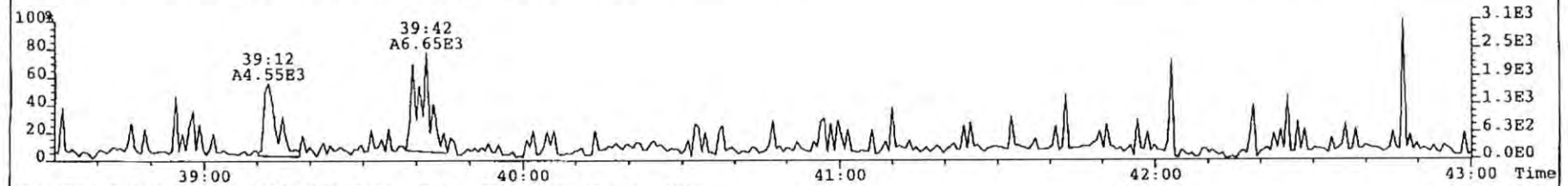
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6682_DP_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 88



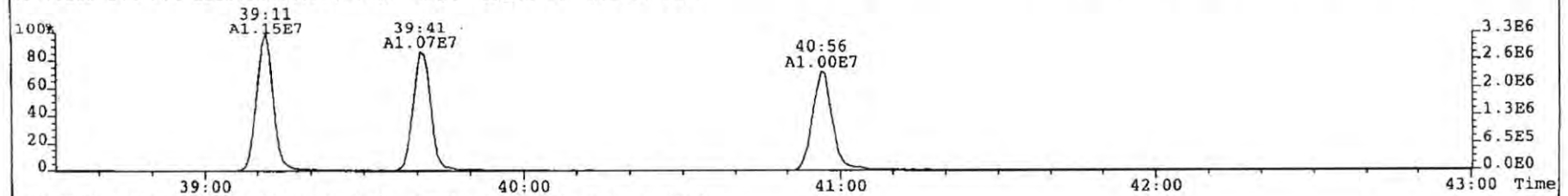
File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec UltimaE
Sample# 4 Text: MB1_6682_DF_SDS 0_6682_MB001 Vial# 31 File Text: AP DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 84



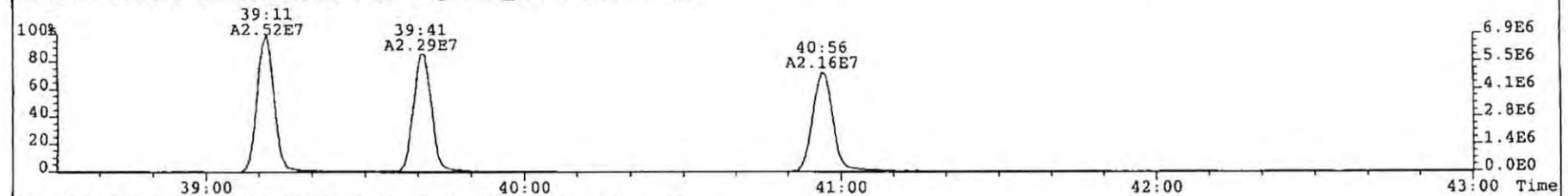
409.7788 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 71



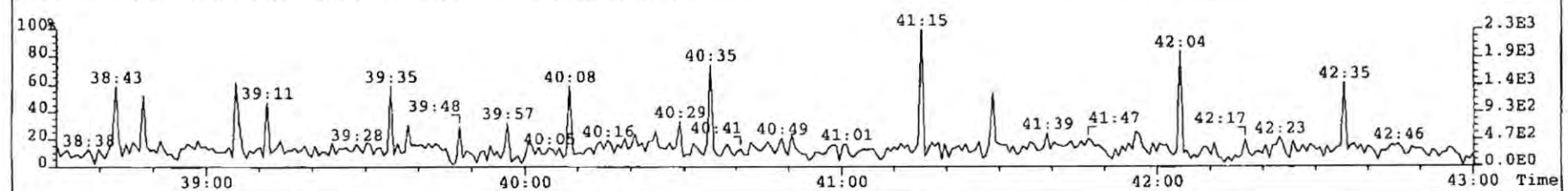
417.8253 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1811



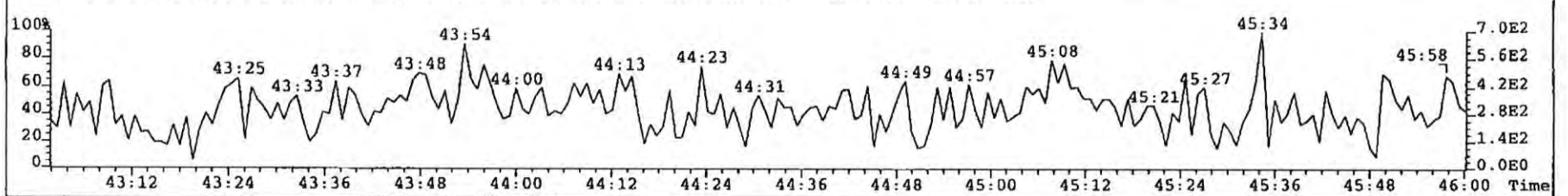
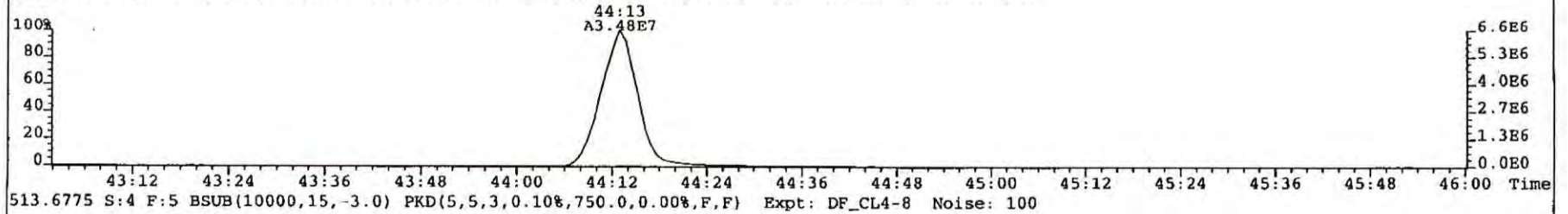
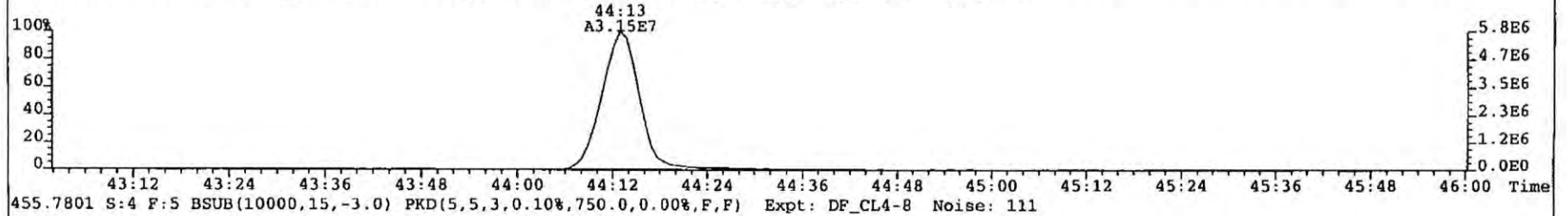
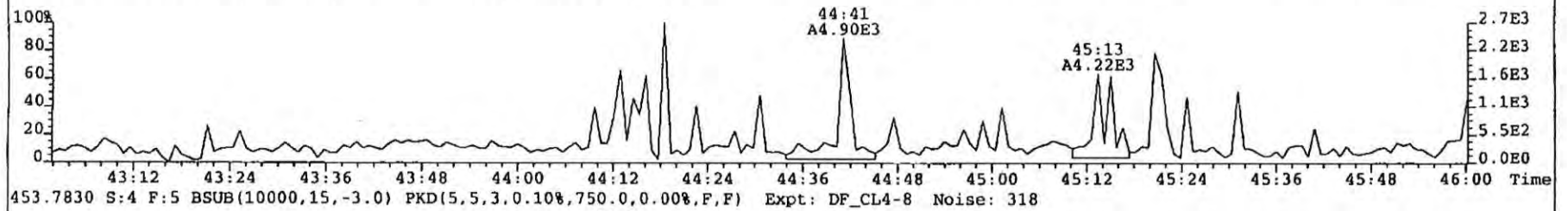
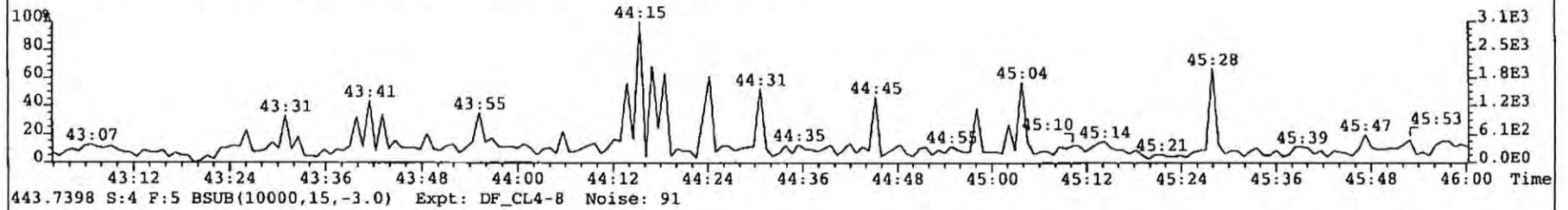
419.8220 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2858



479.7165 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



File: 090323P2 Acq: 23-MAR-2009 23:48:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: MB1_6682_DF_SDS_0_6682_MB001 Vial# 31 File Text: AP DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 87



1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-BA-26-SS-A-090226
Lab ID: P1158_6682_003
Sample text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g

Filename: 090323P2
GC column ID: db-5


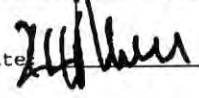
S: 5 Vial: 33 Acq: 24-MAR-09 00:38:35
Cal: MM1_DF_07012007A_25DEC08Wt/Vol: 10.37g
Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	3.48e+05	0.75 y	27:17	1.08	1.02	825	2.5	0.0466	-
Ax	1,2,3,7,8-PeCDD	1.38e+06	1.55 y	32:49	1.00	5.43	1447	2.5	0.134	-
Ax	1,2,3,4,7,8-HxCDD	2.25e+06	1.21 y	36:46	1.08	9.67	9806	2.5	0.892	-
Ax	1,2,3,6,7,8-HxCDD	1.23e+07	1.24 y	36:53	0.94	56.8	9806	2.5	0.995	-
Ax	1,2,3,7,8,9-HxCDD	4.92e+06	1.23 y	37:11	0.99	20.7	9806	2.5	0.982	-
Ax	1,2,3,4,6,7,8-HpCDD	3.75e+08	1.08 y	40:23	0.97	1640	36716	2.5	3.58	-
Ax	OCDD	2.40e+09	0.91 y	44:00	1.06	13800	98883	2.5	14.3	-
Ax2	OCDD-a	1.46e+08	2.55 y	44:00	0.06	14100	13662	2.5	33.1	-
Ax	2,3,7,8-TCDF	1.81e+06	0.80 y	26:21	1.05	3.71	1856	2.5	0.0780	-
Ax	1,2,3,7,8-PeCDF	1.71e+06	1.58 y	31:21	0.98	4.25	3096	2.5	0.173	-
Ax	2,3,4,7,8-PeCDF	3.82e+06	1.62 y	32:29	1.01	9.24	3096	2.5	0.163	-
Ax	1,2,3,4,7,8-HxCDF	8.25e+06	1.26 y	35:47	1.22	23.3	5491	2.5	0.209	-
Ax	1,2,3,6,7,8-HxCDF	3.37e+06	1.25 y	35:56	1.15	8.94	5491	2.5	0.212	-
Ax	2,3,4,6,7,8-HxCDF	4.87e+06	1.22 y	36:34	1.13	13.7	5491	2.5	0.220	-
Ax	1,2,3,7,8,9-HxCDF	1.42e+06	1.12 y	37:36	1.12	4.58	5491	2.5	0.273	-
Ax	1,2,3,4,6,7,8-HpCDF	1.01e+08	1.05 y	39:12	1.37	315	7164	2.5	0.317	-
Ax	1,2,3,4,7,8,9-HpCDF	3.47e+06	1.02 y	40:58	1.32	12.8	7164	2.5	0.419	-
Ax	OCDF	1.45e+08	0.90 y	44:15	0.94	690	19614	2.5	2.41	-
Ax2	OCDF-a	8.38e+06	2.57 y	44:14	0.05	710	2169	2.5	4.75	-
ES	13C-2,3,7,8-TCDD	6.04e+07	0.84 y	27:16	0.99	172	2036	2.5	0.124	89.3
ES	13C-1,2,3,7,8-PeCDD	4.92e+07	1.62 y	32:49	0.83	167	4715	2.5	0.342	86.5
ES	13C-1,2,3,4,7,8-HxCDD	4.14e+07	1.28 y	36:45	1.08	159	12588	2.5	1.05	82.4
ES	13C-1,2,3,6,7,8-HxCDD	4.41e+07	1.32 y	36:52	1.23	149	12588	2.5	0.931	77.5
ES	13C-1,2,3,7,8,9-HxCDD	4.62e+07	1.29 y	37:10	1.21	158	12588	2.5	0.943	82.2
ES	13C-1,2,3,4,6,7,8-HpCDD	4.52e+07	1.07 y	40:22	0.98	191	9522	2.5	0.878	99.0
ES	13C-OCDD	6.31e+07	0.85 y	43:59	0.66	398	15672	2.5	2.15	103
ES	13C-2,3,7,8-TCDF	8.99e+07	0.79 y	26:21	0.96	207	5545	2.5	0.259	107
ES	13C-1,2,3,7,8-PeCDF	7.88e+07	1.58 y	31:19	0.85	203	6467	2.5	0.339	105
ES	13C-2,3,4,7,8-PeCDF	7.88e+07	1.55 y	32:27	0.88	196	6467	2.5	0.327	102
ES	13C-1,2,3,4,7,8-HxCDF	5.60e+07	0.54 y	35:47	1.47	158	21493	2.5	1.32	81.8
ES	13C-1,2,3,6,7,8-HxCDF	6.32e+07	0.53 y	35:55	1.78	148	21493	2.5	1.10	76.6
ES	13C-2,3,4,6,7,8-HxCDF	6.07e+07	0.53 y	36:34	1.61	157	21493	2.5	1.21	81.1
ES	13C-1,2,3,7,8,9-HxCDF	5.35e+07	0.53 y	37:33	1.40	159	21493	2.5	1.39	82.2
ES	13C-1,2,3,4,6,7,8-HpCDF	4.54e+07	0.47 y	39:12	1.16	162	13634	2.5	1.06	84.2
ES	13C-1,2,3,4,7,8,9-HpCDF	3.95e+07	0.46 y	40:57	0.92	178	13634	2.5	1.34	92.2
ES	13C-OCDF	8.62e+07	0.91 y	44:14	1.04	345	14820	2.5	1.29	89.5
CS	37Cl-2,3,7,8-TCDD	2.51e+07		27:17	0.99	71.8			3.94	93.1
CS	13C-1,2,3,4,7-PeCDD	4.70e+07	1.68 y	32:18	0.77	173	4715	2.5	0.371	89.5
CS	13C-1,2,3,4,6-PeCDF	7.97e+07	1.56 y	30:48	0.79	221	6467	2.5	0.364	114
CS	13C-1,2,3,4,6,9-HxCDF	5.81e+07	0.52 y	36:14	1.41	171	21493	2.5	1.38	88.5
CS	13C-1,2,3,4,6,8,9-HpCDF	4.36e+07	0.47 y	39:41	0.91	199	13634	2.5	1.36	103
NA	n/a	*	* n	NotF>	Div0	*	975	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	6.81e+07	0.83 y	26:36	-	18.7	2036	2.5	-	-
JS	13C-1,2,3,4-TCDF	8.78e+07	0.79 y	24:56	-	15.2	5545	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.32e+07	1.27 y	37:04	-	10.3	2437	2.5	-	-

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SS	37Cl-2,3,7,8-TCDD	2.51e+07		27:17	1.00	79.9		3.94	104
SS	13C-1,2,3,4,7-PeCDD	4.70e+07	1.68 y	32:18	0.93	198	4715 2.5	0.469	103
SS	13C-1,2,3,4,6-PeCDF	7.97e+07	1.56 y	30:48	0.94	208	6467 2.5	0.379	108
SS	13C-1,2,3,4,6,9-HxCDF	5.81e+07	0.52 y	36:14	0.80	221	21493 2.5	1.19	115
SS	13C-1,2,3,4,6,8,9-HpCDF	4.36e+07	0.47 y	39:41	0.79	234	13634 2.5	1.04	121
SBS	2,4,6,8-TCDF	2.76e+06	0.81 y	22:27	1.05	5.66	1856 2.5	0.0780	-
Ay	1,3,6,8-TCDD	3.13e+06	0.77 y	23:26	1.08	9.22	825 2.5	0.0466	-
Ay	1,2,3,9-TCDD	6.92e+04	0.59 y	27:09	1.08	0.204	825 2.5	0.0466	-
Ay	1,2,8,9-TCDD	6.79e+04	1.08 y	28:19	1.08	0.200	825 2.5	0.0466	-
Ay	1,2,4,7,9-PeCDD	5.18e+06	1.61 y	30:17	1.00	20.4	1447 2.5	0.134	-
Ay	1,2,3,8,9-PeCDD	3.74e+05	1.92 y	33:16	1.00	1.47	1447 2.5	0.134	-
Ay	1,2,4,6,7,9-HxCDD	6.47e+07	1.23 y	35:04	1.00	283	9806 2.5	0.957	-
Ay	1,2,3,4,6,7,9-HpCDD	1.11e+09	1.06 y	39:32	0.97	4880	36716 2.5	3.58	-
Ay	1,3,6,8-TCDF	7.41e+05	0.80 y	21:16	1.05	1.52	1856 2.5	0.0780	-
Ay	2,3,4,8-TCDF	4.19e+05	0.82 y	26:15	1.05	0.858	1856 2.5	0.0780	-
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	1856 2.5	0.0780	-
Ay	1,3,4,6,8-PeCDF	1.96e+07	1.71 y	28:29	1.05	40.1	1313 2.5	0.0552	-
Ay	1,2,3,8,9-PeCDF	2.30e+05	1.76 y	33:34	1.00	0.564	3096 2.5	0.168	-
Ay	1,2,3,4,6,8-HxCDF	1.42e+07	1.25 y	34:24	1.15	40.6	5491 2.5	0.227	-
Tot	Total Tetra-Dioxins	1.06e+07	0.77 y	23:26	1.08	31.3	825 2.5	0.0466	-
Tot	Total Penta-Dioxins	1.78e+07	1.61 y	30:17	1.00	70.0	1447 2.5	0.134	-
Tot	Total Hexa-Dioxins	1.55e+08	1.23 y	35:04	1.00	680	9806 2.5	0.957	-
Tot	Total Hepta-Dioxins	1.49e+09	1.06 y	39:32	0.97	6530	36716 2.5	3.58	-
Tot	Total Tetra-Furans	2.48e+07	0.80 y	21:16	1.05	50.8	1856 2.5	0.0780	-
Tot	Total Penta-Furans	2.55e+07	1.61 y	30:04	1.00	62.4	3096 2.5	0.168	-
Tot	Total Hexa-Furans	1.43e+08	1.25 y	34:24	1.15	410	5491 2.5	0.227	-
Tot	Total Hepta-Furans	2.76e+08	1.05 y	39:12	1.35	908	7164 2.5	0.364	-
Tot	TCDD EMPC	1.08e+07	0.77 y	23:26	1.08	31.9	825 2.5	0.0466	-
Tot	PeCDD EMPC	1.85e+07	1.61 y	30:17	1.00	72.9	1447 2.5	0.134	-
Tot	HxCDD EMPC	1.55e+08	1.23 y	35:04	1.00	680	9806 2.5	0.957	-
Tot	HpCDD EMPC	1.49e+09	1.06 y	39:32	0.97	6530	36716 2.5	3.58	-
Tot	TCDF EMPC	2.48e+07	0.80 y	21:16	1.05	50.8	1856 2.5	0.0780	-
Tot	PeCDF EMPC	2.55e+07	1.61 y	30:04	1.00	62.4	3096 2.5	0.168	-
Tot	HxCDF EMPC	1.44e+08	1.25 y	34:24	1.15	411	5491 2.5	0.227	-
Tot	HpCDF EMPC	2.78e+08	1.05 y	39:12	1.35	915	7164 2.5	0.364	-
AS	13C-1,3,6,8-TCDD	5.62e+07	0.81 y	23:24	1.09	146	2036 2.5	0.113	75.9
AS	13C-1,3,6,8-TCDF	9.35e+07	0.79 y	21:15	1.09	189	5545 2.5	0.228	97.7
DPE	HxCDFPE	*		NotF»	-	*	-	-	-
DPE	HpCDFPE	*		NotF»	-	*	-	-	-
DPE	OCDFPE	*		NotF»	-	*	-	-	-
DPE	NCDPE	*		NotF»	-	*	-	-	-
DPE	DCDFPE	*		NotF»	-	*	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-

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Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 12 Checkcode: 0311
 File Name: 090323P2 Sample #: 5 Sample text: P1158_6682_003 PO-BA-26-SS-A-090226 10.»

Acquired: 24-MAR-09 00:38:35 Processed: 24-MAR-09 08:54:33

Total Conc.: 31.875 Unnamed Conc.: 21.232 Homolog count: 16

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:26	1.361e+06	n	1.768e+06	n	0.77	y	3.129e+06	3.129e+06	4.19e+02	y	9.22	1,3,6,8-TCDD
23:49	8.533e+05	n	1.052e+06	n	0.81	y	1.905e+06	1.905e+06	2.36e+02	y	5.61	
24:16	1.618e+05	n	2.092e+05	n	0.77	y	3.711e+05	3.711e+05	5.09e+01	y	1.09	
25:07	1.553e+05	n	1.941e+05	n	0.80	y	3.494e+05	3.494e+05	5.38e+01	y	1.03	
25:21	3.417e+05	y	4.169e+05	y	0.82	y	7.585e+05	7.585e+05	1.03e+02	y	2.23	
25:33	3.492e+05	y	4.436e+05	y	0.79	y	7.928e+05	7.928e+05	1.21e+02	y	2.33	
25:45	1.340e+05	y	1.773e+05	y	0.76	y	3.114e+05	3.114e+05	3.81e+01	y	0.917	
26:01	6.119e+04	y	6.927e+04	n	0.88	y	1.305e+05	1.305e+05	2.65e+01	y	0.384	
26:13	1.321e+05	n	1.568e+05	n	0.84	y	2.888e+05	2.888e+05	4.43e+01	y	0.851	
26:38	3.203e+05	y	3.739e+05	n	0.86	y	6.942e+05	6.942e+05	7.41e+01	y	2.04	
27:00	5.810e+05	n	7.324e+05	y	0.79	y	1.313e+06	1.313e+06	1.81e+02	y	3.87	
27:09	3.010e+04	y	5.099e+04	y	0.59	n	8.109e+04	6.919e+04	1.64e+01	y	0.204	1,2,3,9-TCDD
27:17	1.486e+05	y	1.990e+05	n	0.75	y	3.476e+05	3.476e+05	5.16e+01	y	1.02	2,3,7,8-TCDD
27:38	1.036e+05	y	1.200e+05	n	0.86	y	2.236e+05	2.236e+05	3.62e+01	y	0.659	
27:47	3.749e+04	y	3.993e+04	y	0.94	n	7.742e+04	7.068e+04	1.20e+01	y	0.208	
28:19	4.134e+04	n	3.838e+04	n	1.08	n	7.971e+04	6.793e+04	1.48e+01	y	0.200	1,2,8,9-TCDD

Totals class: PeCDD EMPC Function: 2 Run #: 12 Checkcode: 0311
 File Name: 090323P2 Sample #: 5 Sample text: P1158_6682_003 PO-BA-26-SS-A-090226 10.»

Acquired: 24-MAR-09 00:38:35 Processed: 24-MAR-09 08:54:33

Total Conc.: 72.860 Unnamed Conc.: 45.614 Homolog count: 10

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:17	3.194e+06	n	1.987e+06	n	1.61	y	5.181e+06	5.181e+06	2.65e+02	y	20.4	1,2,4,7,9-PeCDD
30:49	1.446e+06	n	8.965e+05	n	1.61	y	2.342e+06	2.342e+06	1.64e+02	y	9.20	
31:23	1.519e+06	n	9.791e+05	n	1.55	y	2.498e+06	2.498e+06	1.97e+02	y	9.81	
31:34	1.039e+06	y	6.465e+05	y	1.61	y	1.685e+06	1.685e+06	1.30e+02	y	6.62	
31:41	1.101e+06	y	7.459e+05	y	1.48	y	1.847e+06	1.847e+06	1.42e+02	y	7.25	
31:56	1.282e+06	n	8.139e+05	n	1.57	y	2.095e+06	2.095e+06	1.11e+02	y	8.23	
32:19	4.902e+05	y	3.080e+05	y	1.59	y	7.981e+05	7.981e+05	6.01e+01	y	3.14	
32:49	8.399e+05	y	5.417e+05	y	1.55	y	1.382e+06	1.382e+06	9.63e+01	y	5.43	1,2,3,7,8-PeCDD
32:56	2.432e+05	y	1.357e+05	y	1.79	n	3.789e+05	3.461e+05	3.06e+01	y	1.36	
33:16	2.813e+05	n	1.467e+05	n	1.92	n	4.280e+05	3.740e+05	3.34e+01	y	1.47	1,2,3,8,9-PeCDD

Totals class: HxCDD EMPC Function: 3 Run #: 12 Checkcode: 0311
 File Name: 090323P2 Sample #: 5 Sample text: P1158_6682_003 PO-BA-26-SS-A-090226 10.»

Acquired: 24-MAR-09 00:38:35 Processed: 24-MAR-09 08:54:33

Total Conc.: 680.01 Unnamed Conc.: 309.551 Homolog count: 8

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:04	3.568e+07	n	2.907e+07	n	1.23	y	6.474e+07	6.474e+07	8.67e+02	y	283	1,2,4,6,7,9-HxCDD
35:43	5.296e+06	n	4.268e+06	n	1.24	y	9.564e+06	9.564e+06	1.17e+02	y	41.9	
36:01	2.619e+07	n	2.144e+07	n	1.22	y	4.763e+07	4.763e+07	4.87e+02	y	208	
36:09	6.247e+06	n	4.804e+06	n	1.30	y	1.105e+07	1.105e+07	1.31e+02	y	48.4	
36:46	1.233e+06	n	1.017e+06	n	1.21	y	2.250e+06	2.250e+06	2.85e+01	y	9.67	1,2,3,4,7,8-HxCDD
36:53	6.794e+06	n	5.467e+06	n	1.24	y	1.226e+07	1.226e+07	1.53e+02	y	56.8	1,2,3,6,7,8-HxCDD
37:05	1.372e+06	n	1.121e+06	n	1.22	y	2.493e+06	2.493e+06	2.90e+01	y	10.9	
37:11	2.716e+06	n	2.207e+06	n	1.23	y	4.923e+06	4.923e+06	5.74e+01	y	20.7	1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDD EMPC Function: 4 Run #: 12 Checkcode: 0311
 File Name: 090323P2 Sample #: 5 Sample text: P1158_6682_003 PO-BA-26-SS-A-090226 10.»

Acquired: 24-MAR-09 00:38:35 Processed: 24-MAR-09 08:54:33

Total Conc.: 6528.7 Unnamed Conc.: * Homolog count: 2 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:32	5.747e+08	n	5.402e+08	n	1.06	y	1.115e+09	1.115e+09	4.00e+03	y	4880	1,2,3,4,6,7,9-HpCDD
40:23	1.945e+08	n	1.808e+08	n	1.08	y	3.753e+08	3.753e+08	1.17e+03	y	1640	1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: TCDF EMPC Function: 1 Run #: 12 Checkcode: 0311
 File Name: 090323P2 Sample #: 5 Sample text: P1158_6682_003 PO-BA-26-SS-A-090226 10.»

Acquired: 24-MAR-09 00:38:35 Processed: 24-MAR-09 08:54:33

Total Conc.: 50.782 Unnamed Conc.: 39.030 Homolog count: 21 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
21:16	3.300e+05	n	4.112e+05	n	0.80	y	7.412e+05	7.412e+05	4.67e+01	y	1.52	1,3,6,8-TCDF
21:49	4.320e+05	n	5.759e+05	n	0.75	y	1.008e+06	1.008e+06	5.89e+01	y	2.07	
22:27	1.235e+06	n	1.527e+06	n	0.81	y	2.762e+06	2.762e+06	1.45e+02	y	5.66	2,4,6,8-TCDF
22:59	1.140e+06	n	1.474e+06	n	0.77	y	2.614e+06	2.614e+06	1.05e+02	y	5.36	
23:24	1.213e+06	n	1.627e+06	n	0.75	y	2.839e+06	2.839e+06	1.37e+02	y	5.82	
23:50	7.825e+05	y	1.014e+06	y	0.77	y	1.796e+06	1.796e+06	1.05e+02	y	3.68	
23:59	2.287e+05	y	3.082e+05	y	0.74	y	5.369e+05	5.369e+05	3.55e+01	y	1.10	
24:10	4.465e+05	y	5.933e+05	y	0.75	y	1.040e+06	1.040e+06	6.55e+01	y	2.13	
24:33	1.832e+05	y	2.583e+05	y	0.71	y	4.414e+05	4.414e+05	3.09e+01	y	0.905	
24:42	3.414e+05	y	4.097e+05	y	0.83	y	7.511e+05	7.511e+05	4.96e+01	y	1.54	
24:50	8.202e+05	y	9.863e+05	y	0.83	y	1.807e+06	1.807e+06	1.17e+02	y	3.70	
24:58	4.996e+05	y	6.651e+05	y	0.75	y	1.165e+06	1.165e+06	5.82e+01	y	2.39	
25:27	7.248e+05	n	9.415e+05	n	0.77	y	1.666e+06	1.666e+06	1.03e+02	y	3.42	
25:43	2.416e+05	n	3.359e+05	n	0.72	y	5.775e+05	5.775e+05	4.10e+01	y	1.18	
25:56	1.599e+05	y	2.057e+05	n	0.78	y	3.656e+05	3.656e+05	2.00e+01	y	0.750	
26:08	2.039e+05	y	2.424e+05	y	0.84	y	4.463e+05	4.463e+05	3.02e+01	y	0.915	
26:15	1.886e+05	y	2.302e+05	y	0.82	y	4.187e+05	4.187e+05	3.92e+01	y	0.858	2,3,4,8-TCDF
26:21	8.020e+05	y	1.009e+06	y	0.80	y	1.811e+06	1.811e+06	1.19e+02	y	3.71	2,3,7,8-TCDF
26:45	7.454e+05	n	9.697e+05	n	0.77	y	1.715e+06	1.715e+06	1.15e+02	y	3.52	
27:01	8.940e+04	n	1.064e+05	n	0.84	y	1.958e+05	1.958e+05	1.18e+01	y	0.402	
27:18	3.215e+04	y	3.972e+04	y	0.81	y	7.187e+04	7.187e+04	4.10e+00	y	0.147	
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: PeCDF EMPC Function: 2 Run #: 12 Checkcode: 0311

File Name: 090323P2 Sample #: 5 Sample text: P1158_6682_003 PO-BA-26-SS-A-090226 10.*

Acquired: 24-MAR-09 00:38:35 Processed: 24-MAR-09 08:54:33

Total Conc.: 62.447 Unnamed Conc.: 48.393 Homolog count: 11 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
30:04	1.067e+06	n	6.637e+05	n	1.61	y	1.730e+06	1.730e+06	5.26e+01	y	4.24
30:14	6.529e+06	n	4.161e+06	n	1.57	y	1.069e+07	1.069e+07	3.01e+02	y	26.2
30:39	2.401e+05	n	1.741e+05	n	1.38	y	4.142e+05	4.142e+05	1.24e+01	y	1.01
30:54	2.012e+06	n	1.286e+06	n	1.56	y	3.299e+06	3.299e+06	7.73e+01	y	8.08
31:08	5.600e+05	n	3.540e+05	n	1.58	y	9.140e+05	9.140e+05	3.32e+01	y	2.24
31:21	1.050e+06	n	6.627e+05	n	1.58	y	1.712e+06	1.712e+06	6.14e+01	y	4.25 1,2,3,7,8-PeCDF
31:39	1.253e+06	n	8.489e+05	n	1.48	y	2.102e+06	2.102e+06	6.08e+01	y	5.15
32:13	6.628e+04	n	4.423e+04	n	1.50	y	1.105e+05	1.105e+05	4.70e+00	y	0.271
32:21	3.010e+05	n	2.000e+05	n	1.50	y	5.010e+05	5.010e+05	1.86e+01	y	1.23
32:29	2.365e+06	n	1.459e+06	n	1.62	y	3.824e+06	3.824e+06	8.34e+01	y	9.24 2,3,4,7,8-PeCDF
33:34	1.469e+05	n	8.356e+04	n	1.76	y	2.305e+05	2.305e+05	6.82e+00	y	0.564 1,2,3,8,9-PeCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HxCDF EMPC Function: 3 Run #: 12 Checkcode: 0311
 File Name: 090323P2 Sample #: 5 Sample text: P1158_6682_003 PO-BA-26-SS-A-090226 10.*

Acquired: 24-MAR-09 00:38:35 Processed: 24-MAR-09 08:54:33

Total Conc.: 411.04 Unnamed Conc.: 319.939 Homolog count: 11 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
34:24	7.877e+06	n	6.277e+06	n	1.25	y	1.415e+07	1.415e+07	3.46e+02	y	40.6 1,2,3,4,6,8-HxCDF
34:36	2.477e+07	n	1.976e+07	n	1.25	y	4.453e+07	4.453e+07	1.06e+03	y	128
34:51	2.152e+05	y	1.124e+05	y	1.91	n	3.276e+05	2.518e+05	4.28e+00	y	0.722
35:02	9.150e+05	n	6.665e+05	n	1.37	y	1.581e+06	1.581e+06	3.50e+01	y	4.53
35:15	3.557e+07	n	2.795e+07	n	1.27	y	6.353e+07	6.353e+07	1.49e+03	y	182
35:40	6.476e+05	y	4.935e+05	y	1.31	y	1.141e+06	1.141e+06	2.95e+01	y	3.27
35:47	4.592e+06	n	3.655e+06	y	1.26	y	8.247e+06	8.247e+06	2.04e+02	y	23.3 1,2,3,4,7,8-HxCDF
35:56	1.876e+06	y	1.497e+06	y	1.25	y	3.372e+06	3.372e+06	6.54e+01	y	8.94 1,2,3,6,7,8-HxCDF
36:14	3.473e+05	n	2.780e+05	y	1.25	y	6.253e+05	6.253e+05	1.51e+01	y	1.79
36:34	2.680e+06	y	2.194e+06	n	1.22	y	4.874e+06	4.874e+06	9.84e+01	y	13.7 2,3,4,6,7,8-HxCDF
37:36	7.491e+05	n	6.690e+05	n	1.12	y	1.418e+06	1.418e+06	2.89e+01	y	4.58 1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]											

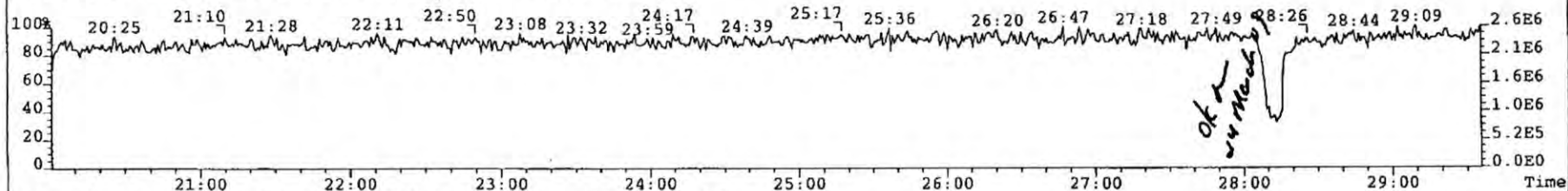
Totals class: HpCDF EMPC Function: 4 Run #: 12 Checkcode: 0311
 File Name: 090323P2 Sample #: 5 Sample text: P1158_6682_003 PO-BA-26-SS-A-090226 10.*

Acquired: 24-MAR-09 00:38:35 Processed: 24-MAR-09 08:54:33

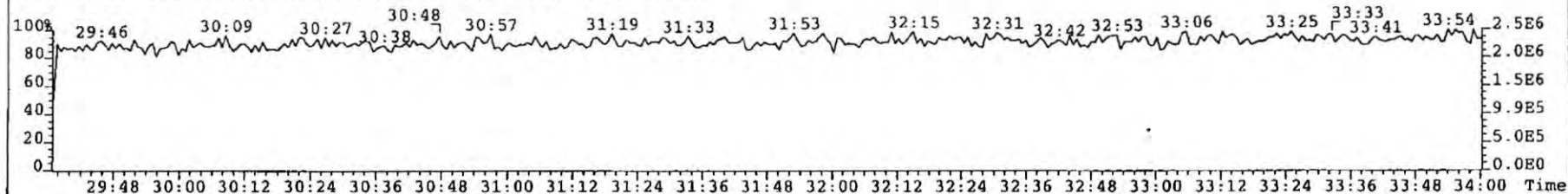
Total Conc.: 914.95 Unnamed Conc.: 587.155 Homolog count: 4 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:12	5.188e+07	n	4.931e+07	n	1.05	y	1.012e+08	1.012e+08	1.82e+03	y	315 1,2,3,4,6,7,8-HpCDF
39:32	1.547e+06	n	9.816e+05	n	1.58	n	2.529e+06	2.003e+06	3.78e+01	y	6.76
39:42	8.855e+07	n	8.328e+07	n	1.06	y	1.718e+08	1.718e+08	3.07e+03	y	580
40:58	1.750e+06	n	1.722e+06	n	1.02	y	3.472e+06	3.472e+06	5.58e+01	y	12.8 1,2,3,4,7,8,9-HpCDF

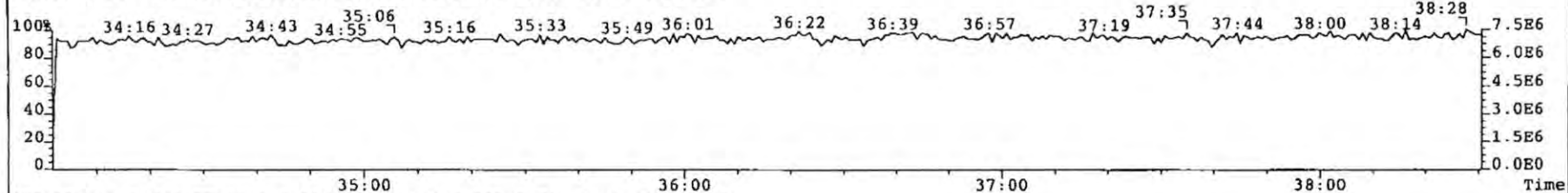
File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26/SS-A-090226 10.37g Vial# 33 File Text: AP DB5
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



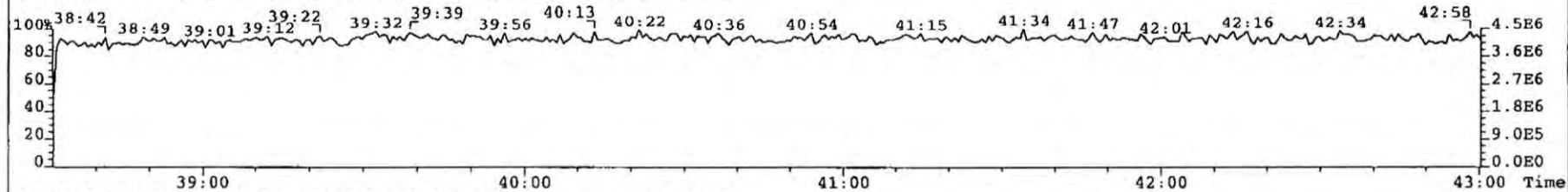
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



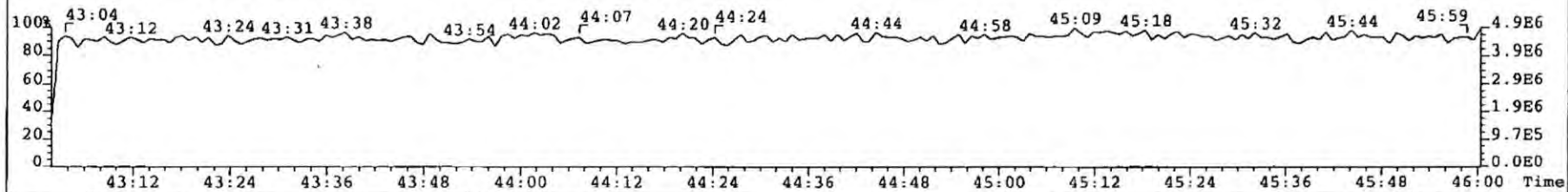
380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



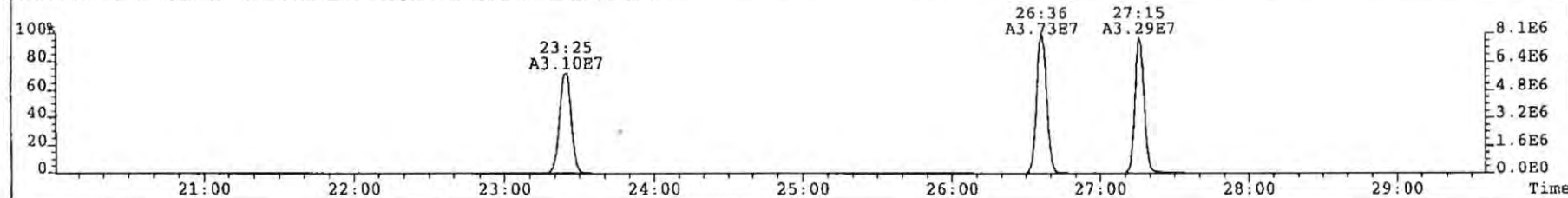
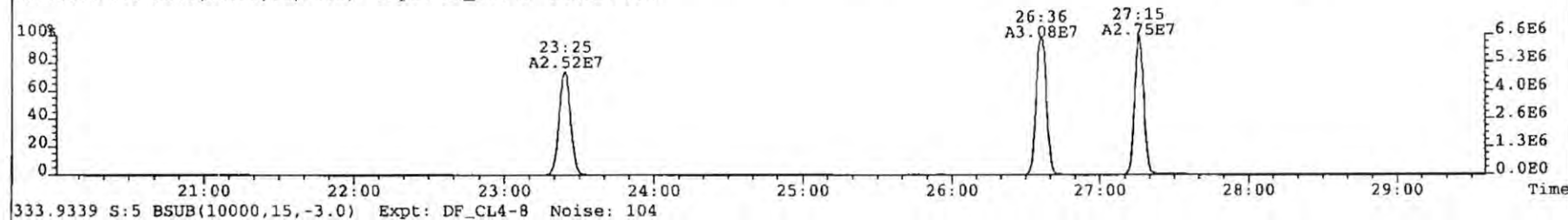
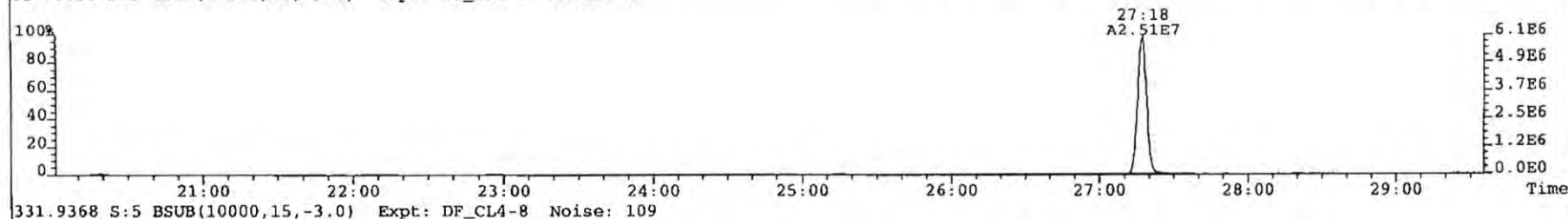
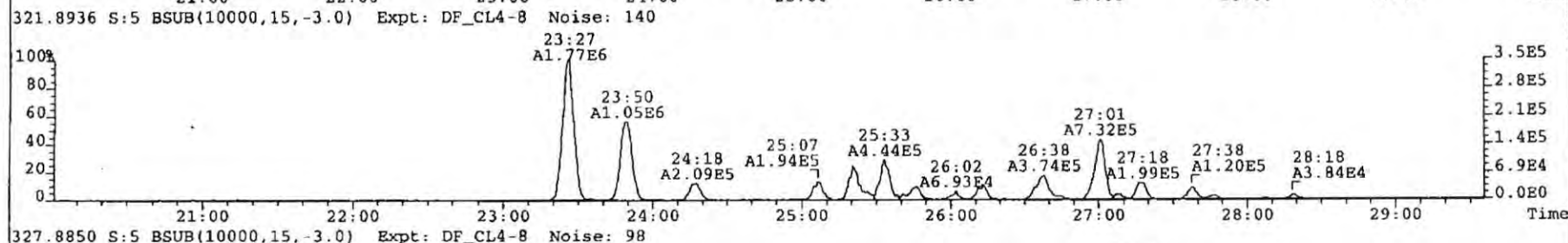
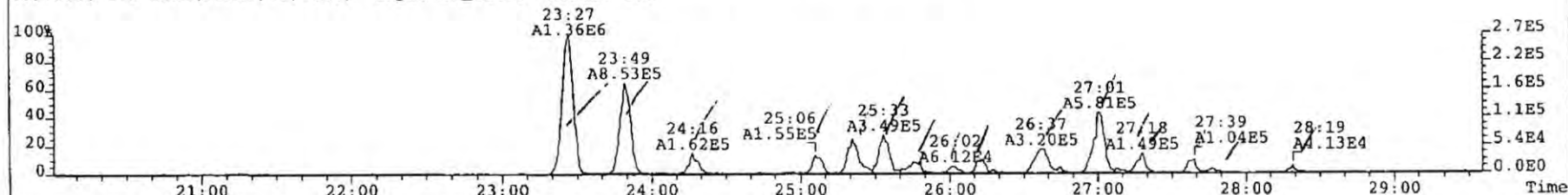
430.9728 S:5 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



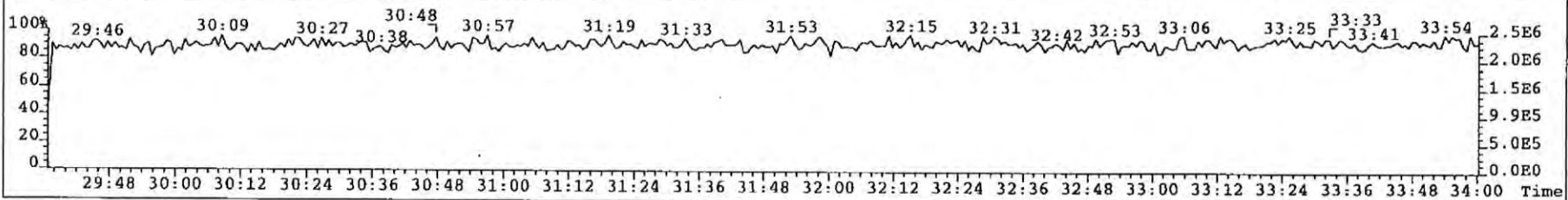
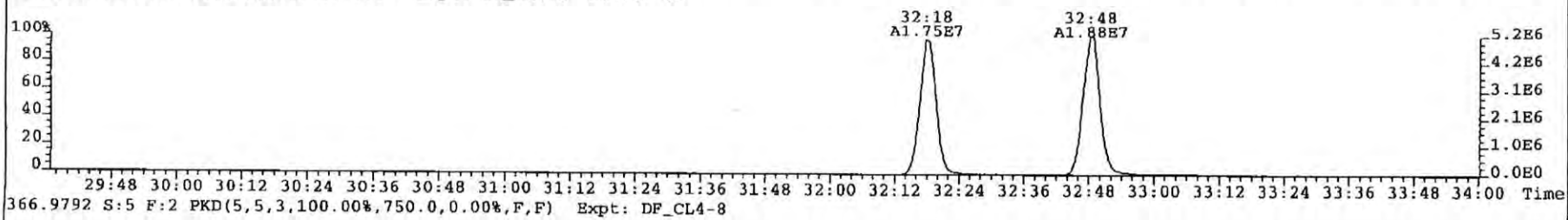
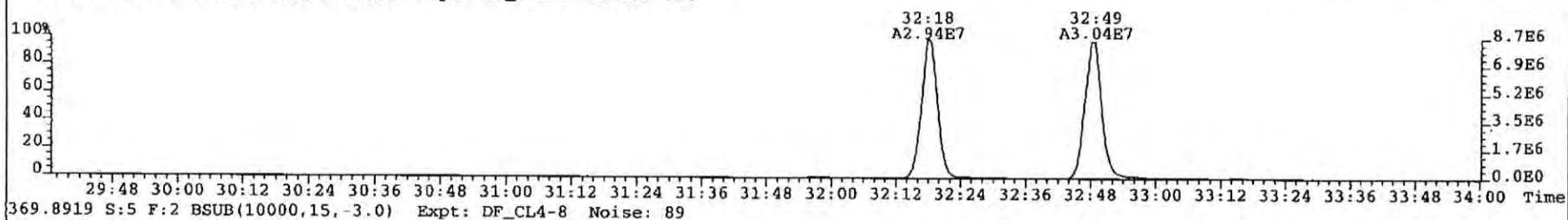
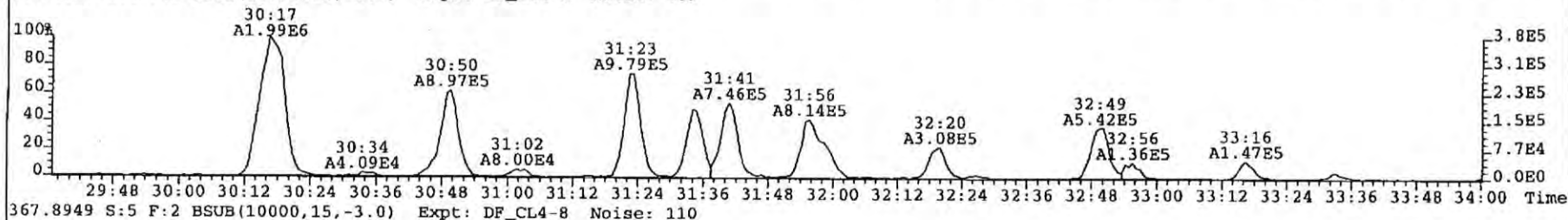
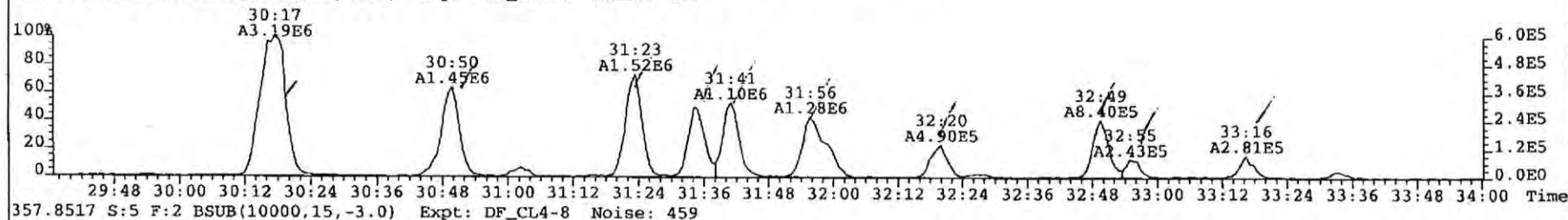
454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



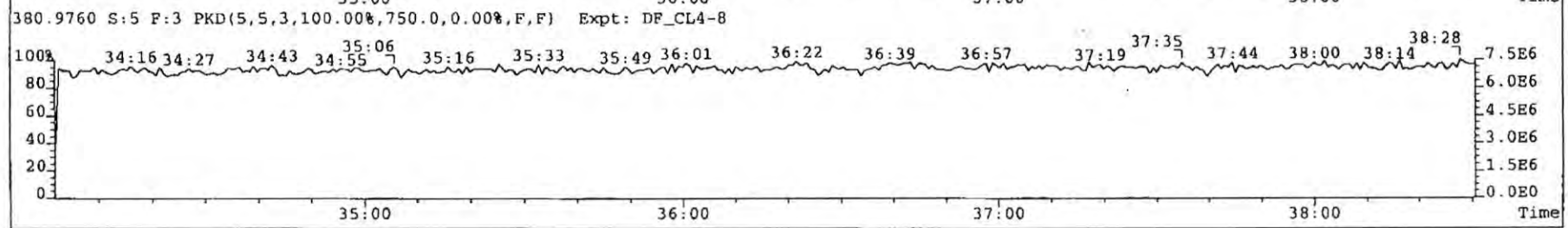
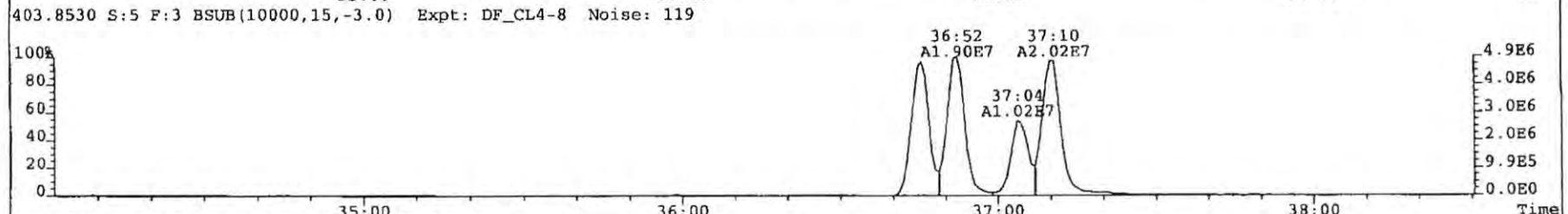
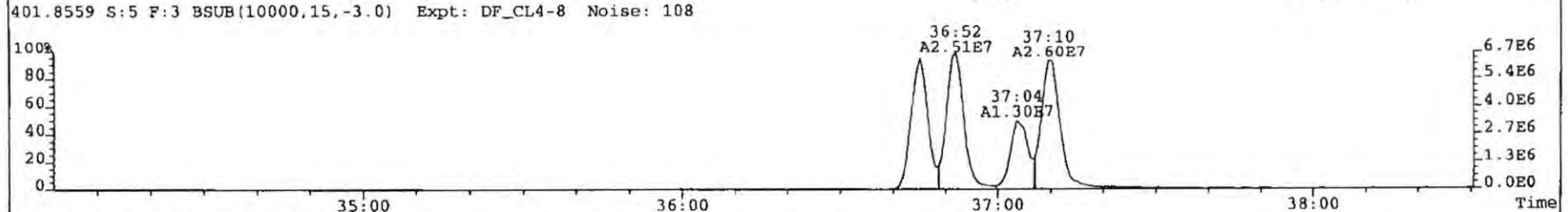
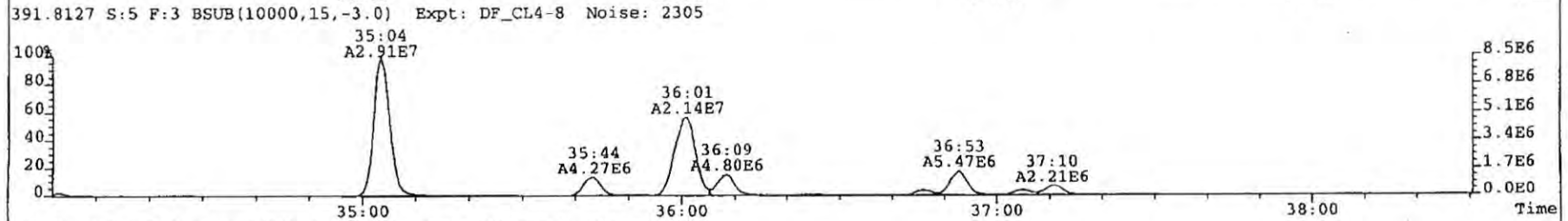
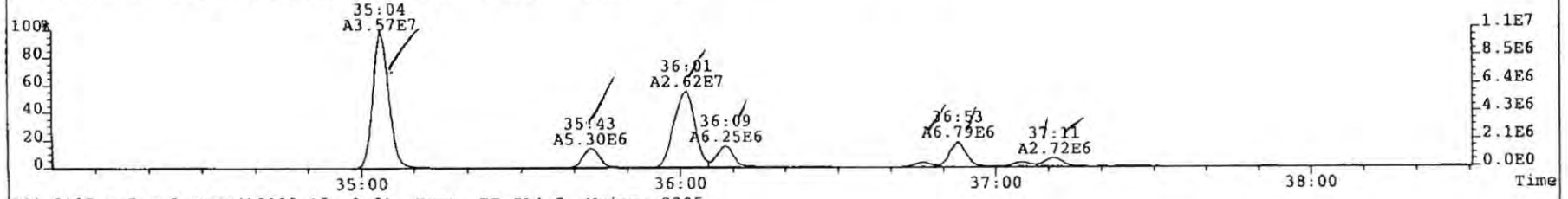
File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
319.8965 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 166



File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
355.8546 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 646



File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2583

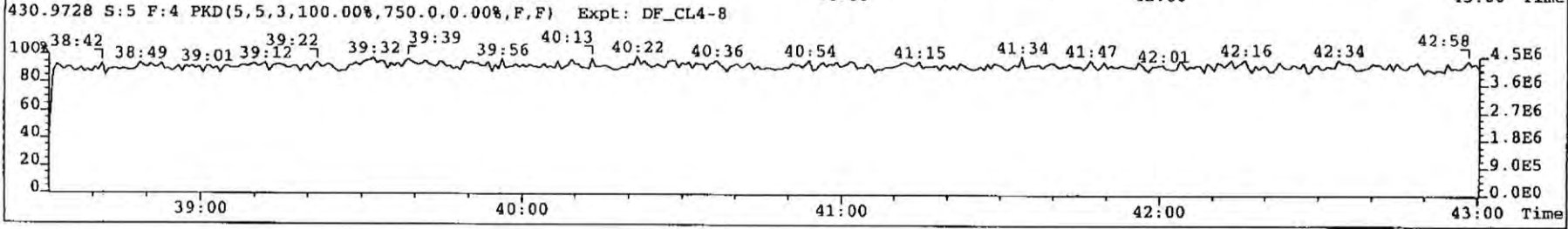
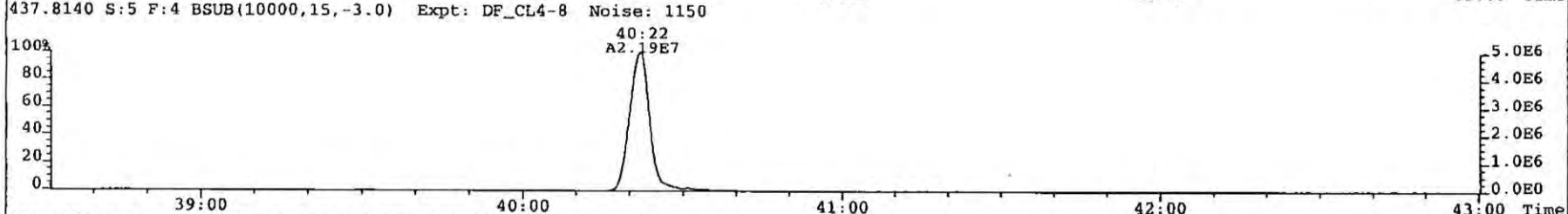
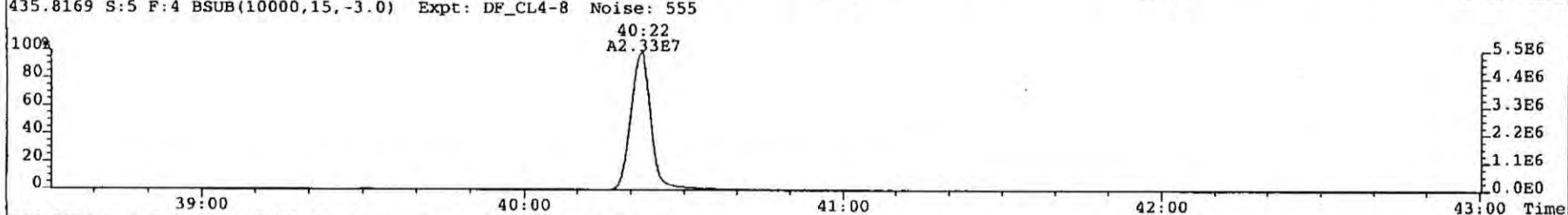
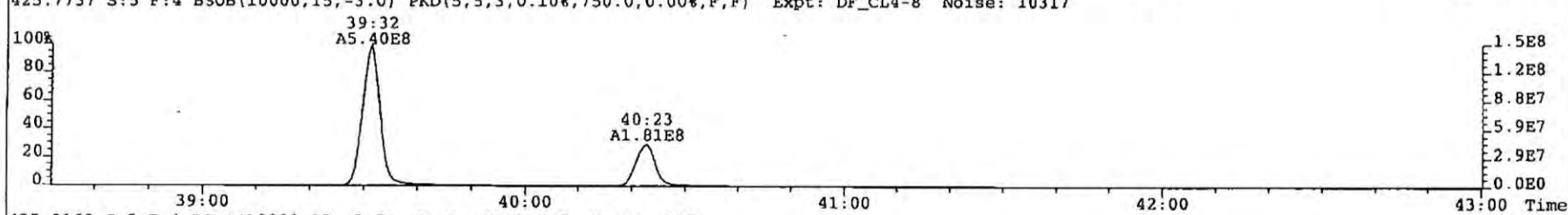
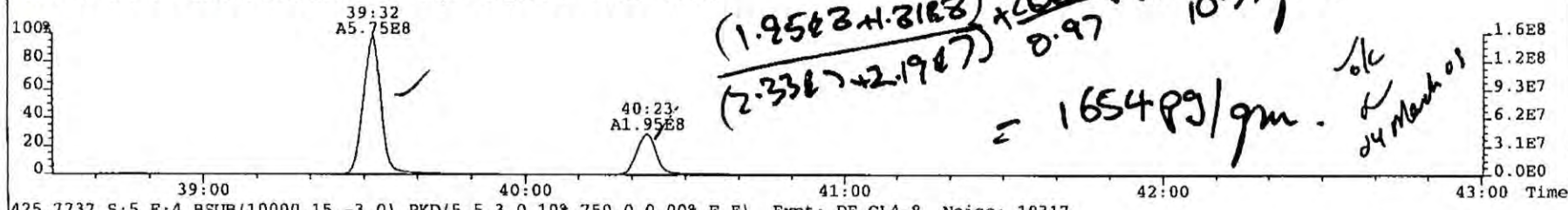


File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
 423.7767 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 10361

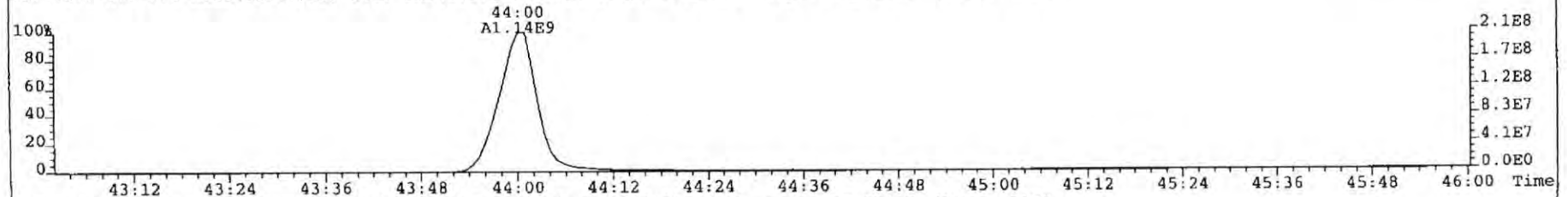
$$\frac{(1.95E8 + 1.81E8)}{(2.33E7 + 2.19E7)} \times \frac{2000 \mu\text{g}}{0.97} \times \frac{1}{10.37 \text{ gm}}$$

= 1654 $\mu\text{g/gm}$

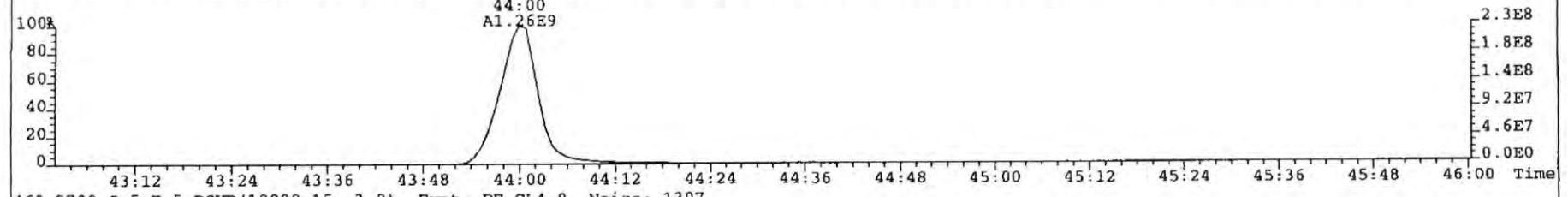
ok
 24 March 09



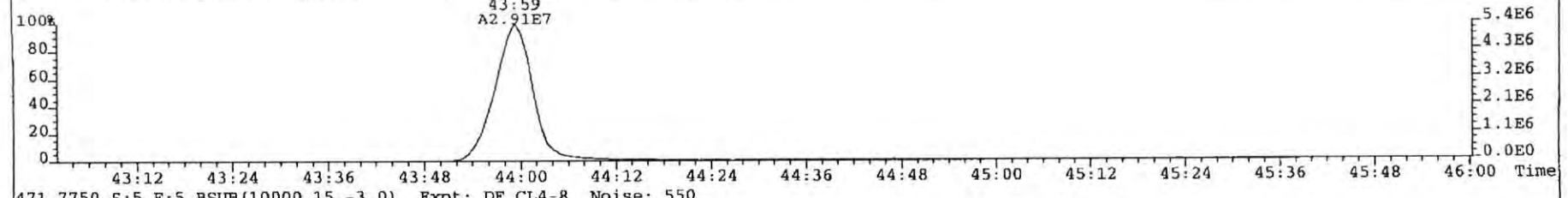
File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 5224



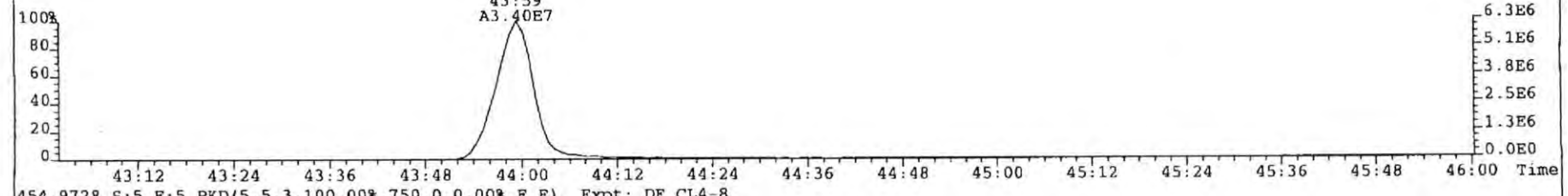
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 7198



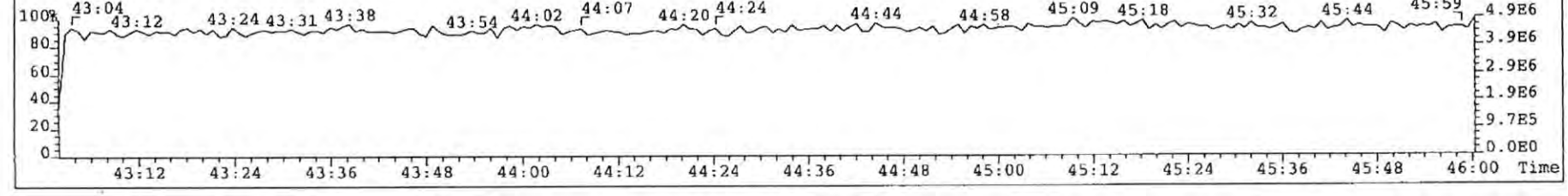
469.7780 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1307



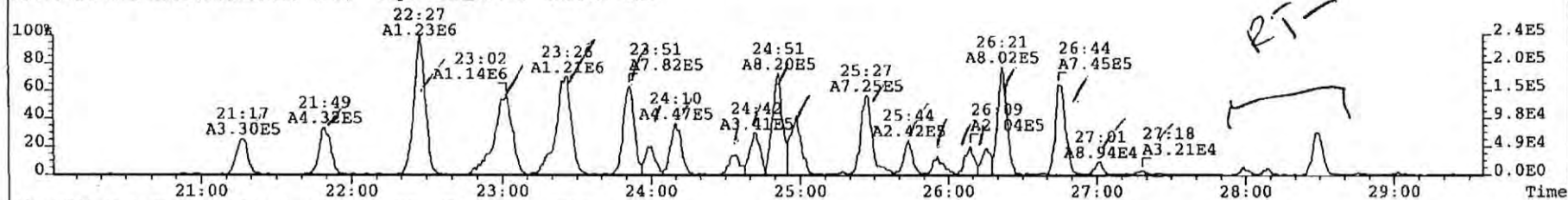
471.7750 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 550



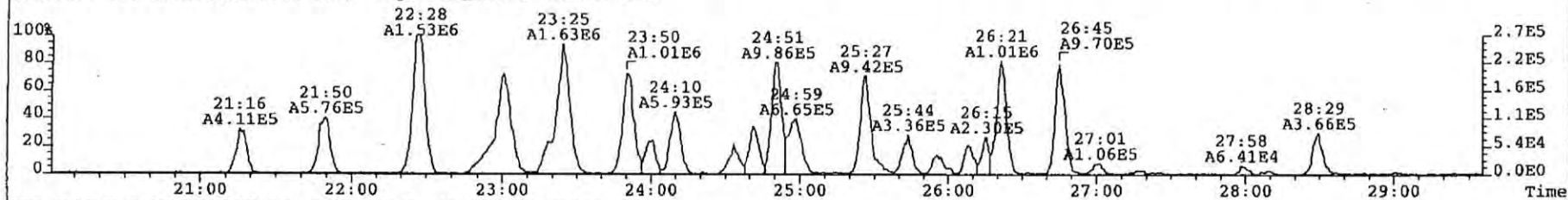
454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



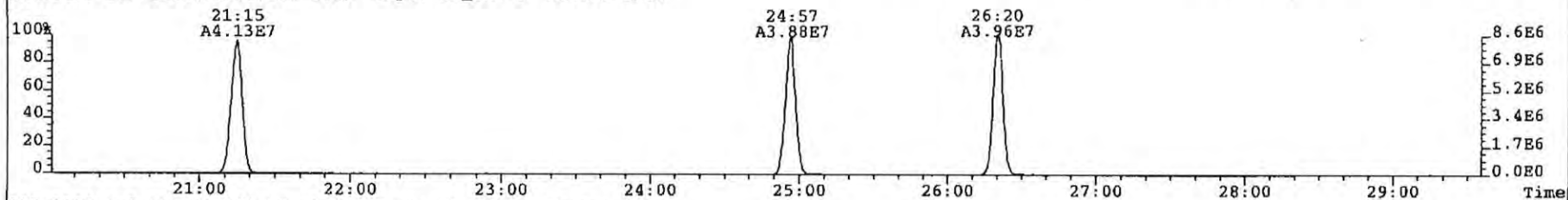
File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
303.9016 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 329



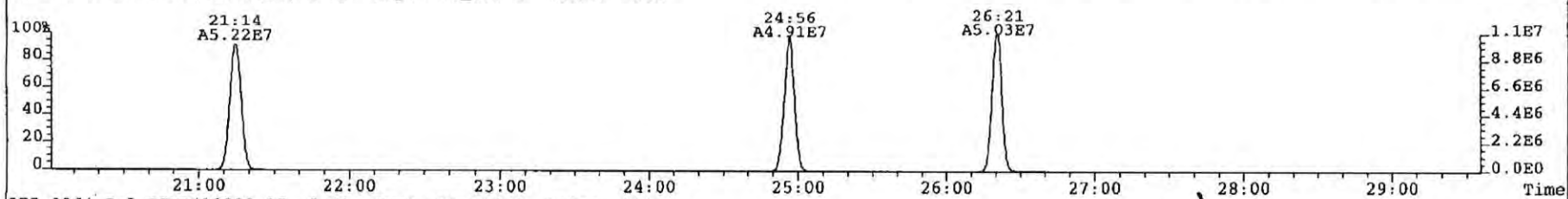
305.8987 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 419



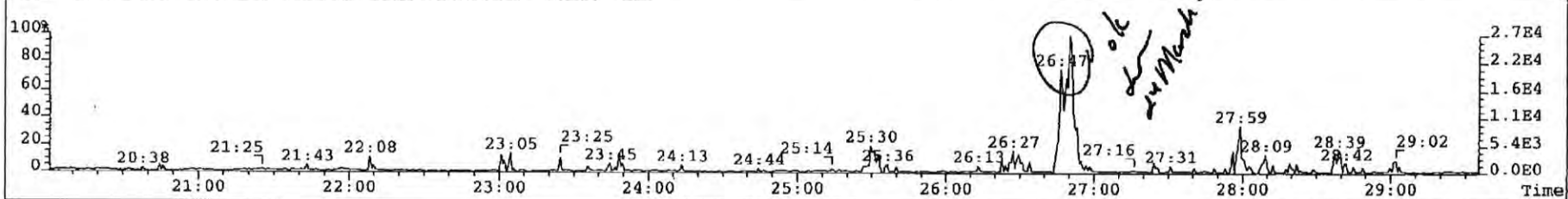
315.9419 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2825



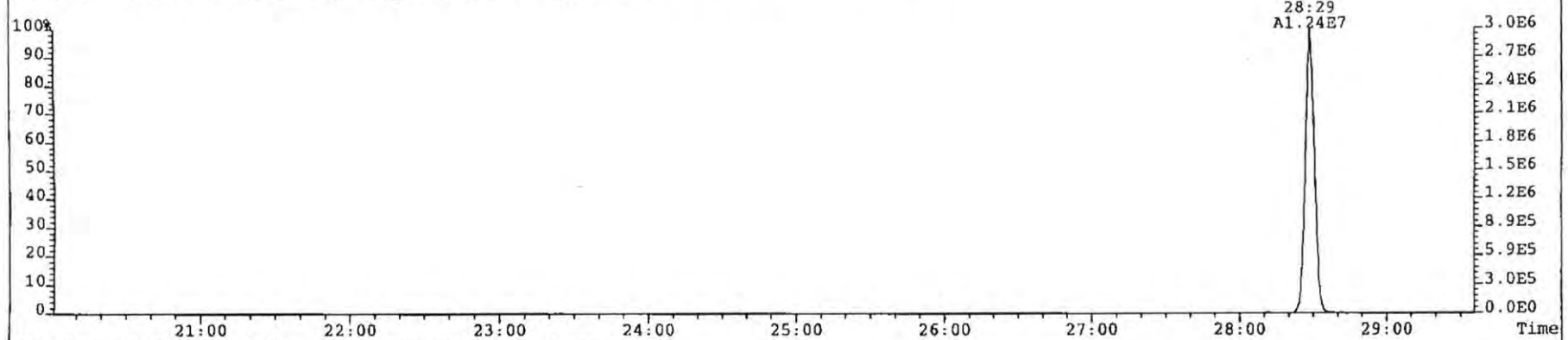
317.9389 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1242



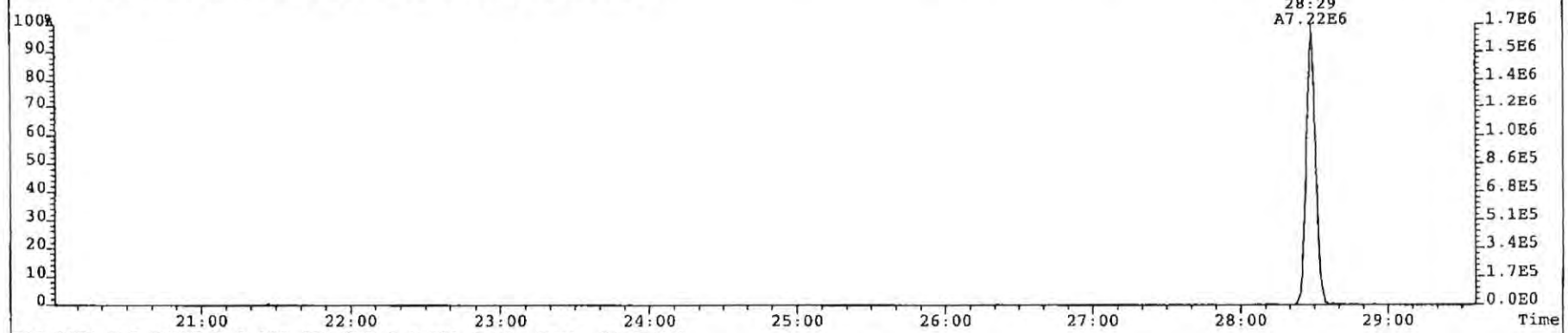
375.8364 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 114



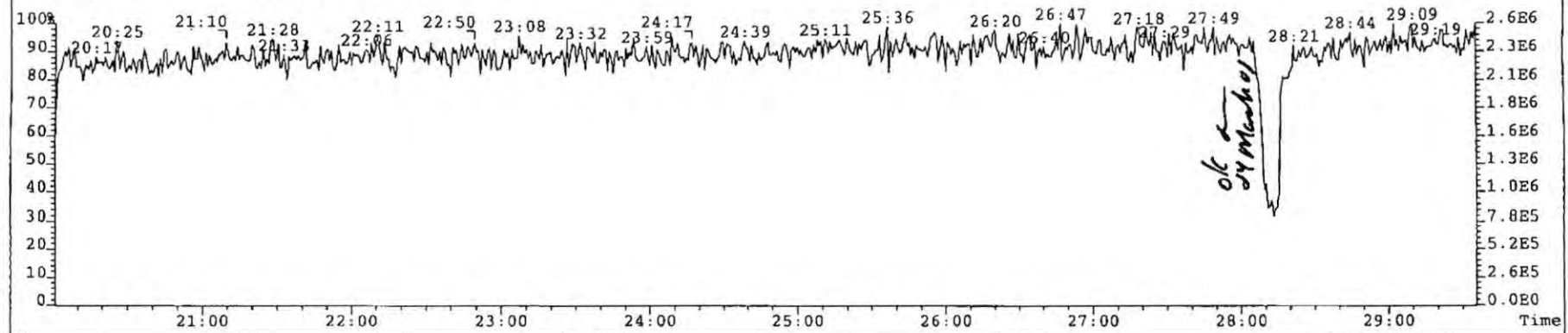
File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
339.8597 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 110



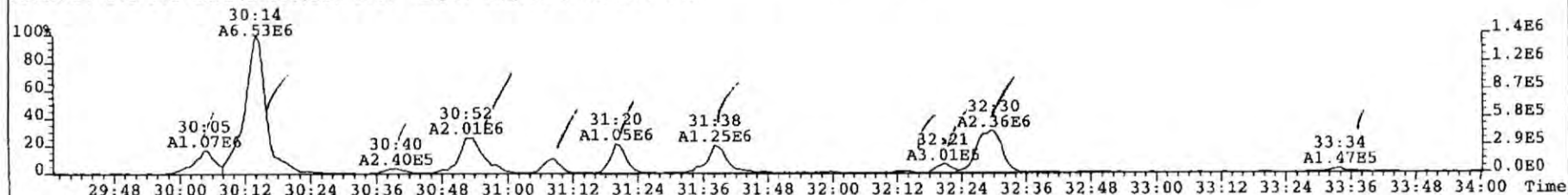
341.8568 S:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 123



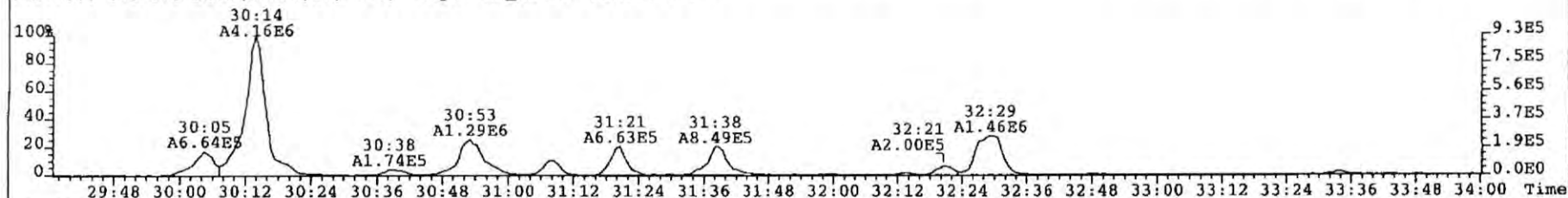
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



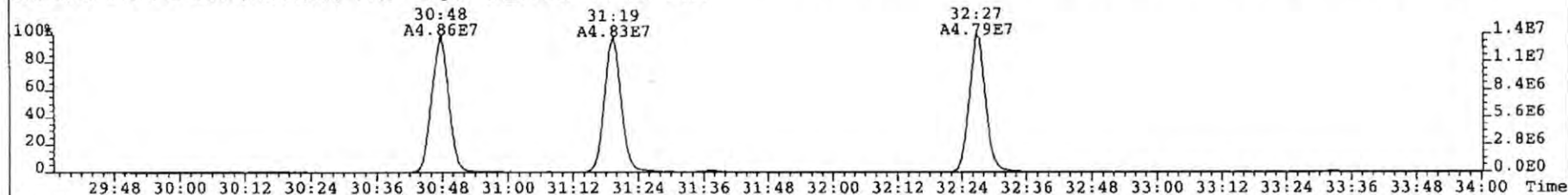
File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DBS
339.8597 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 756



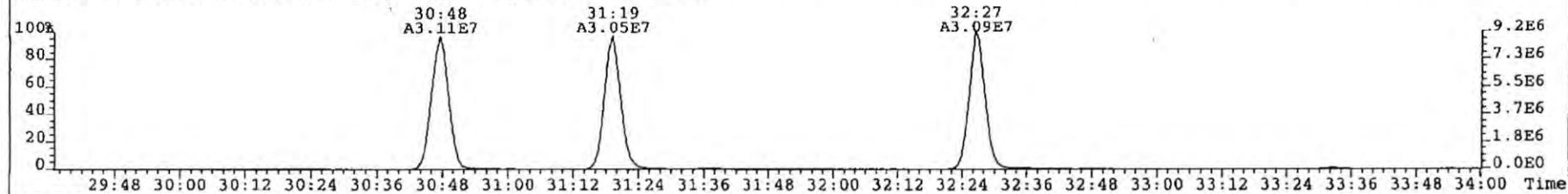
341.8568 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 776



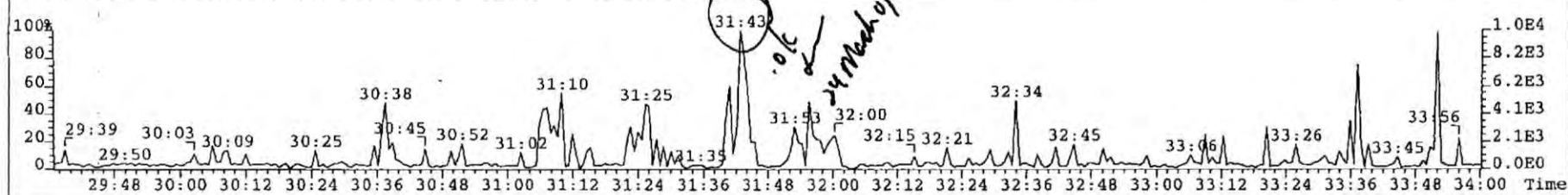
351.9000 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2393



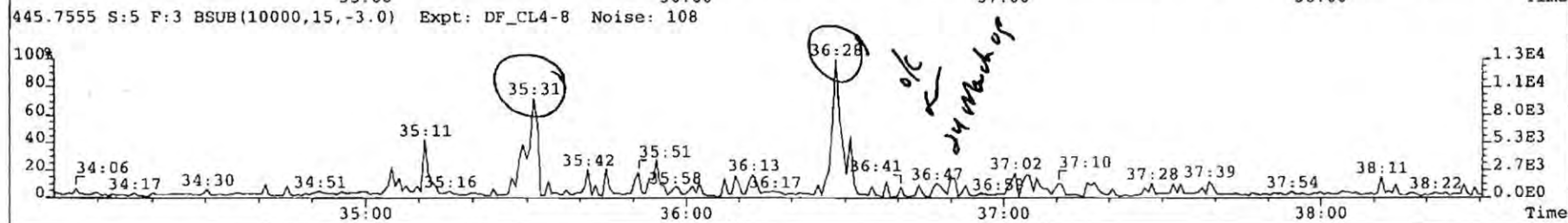
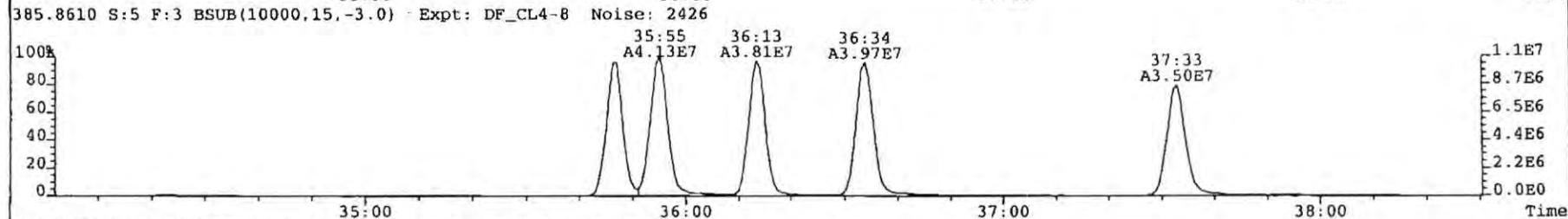
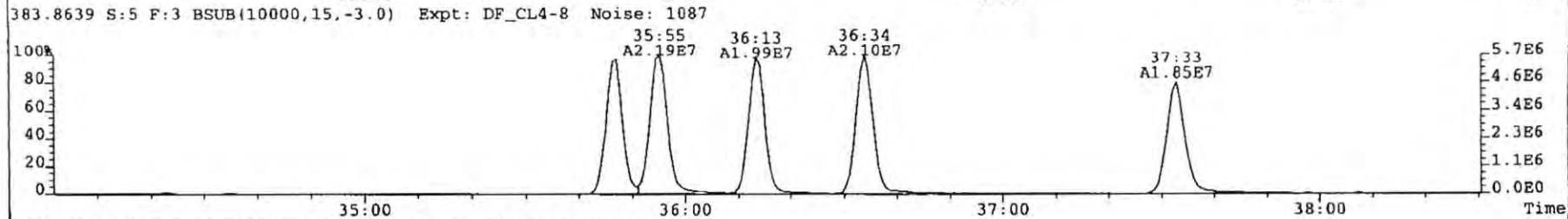
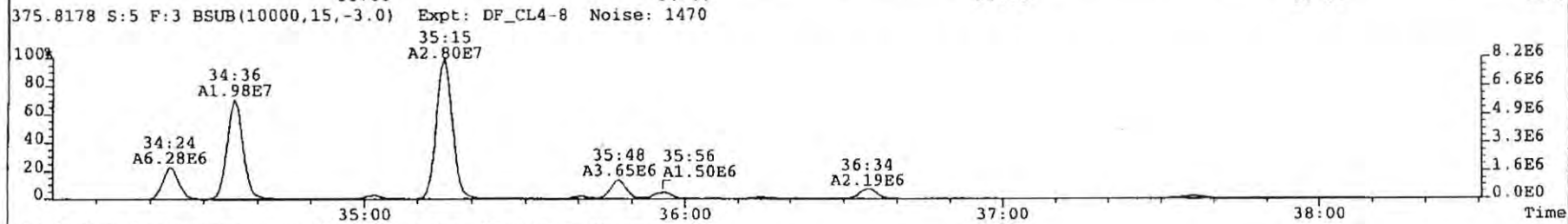
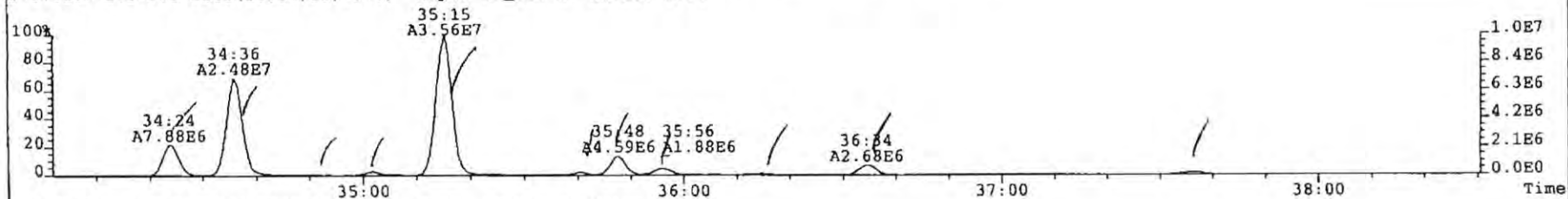
353.8970 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1973



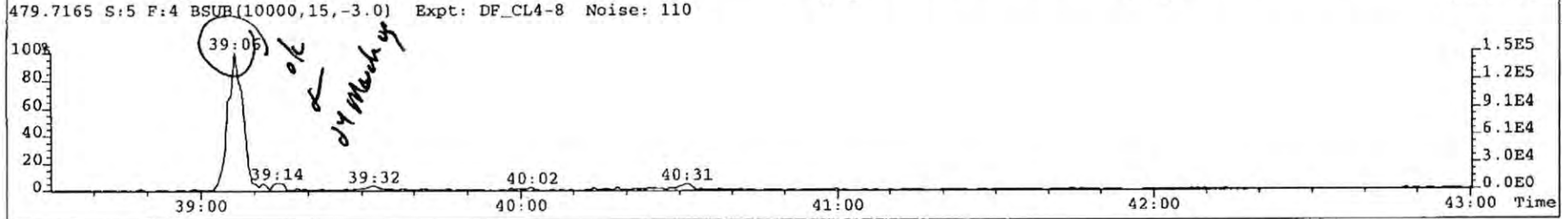
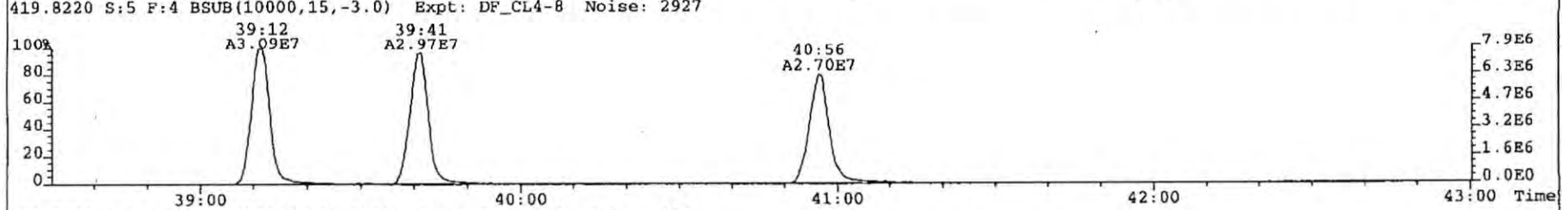
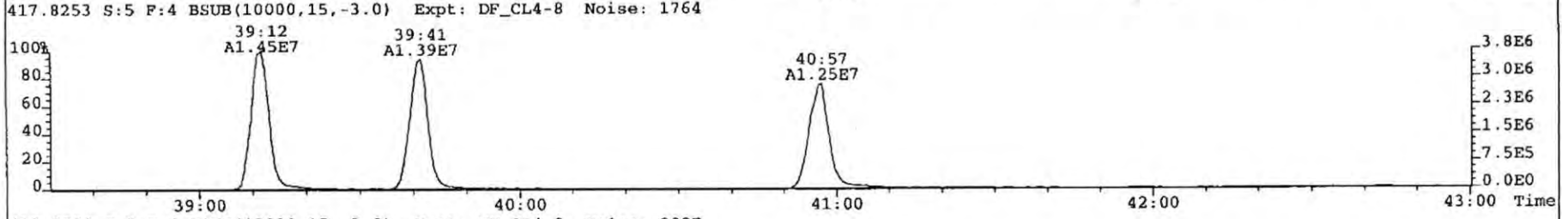
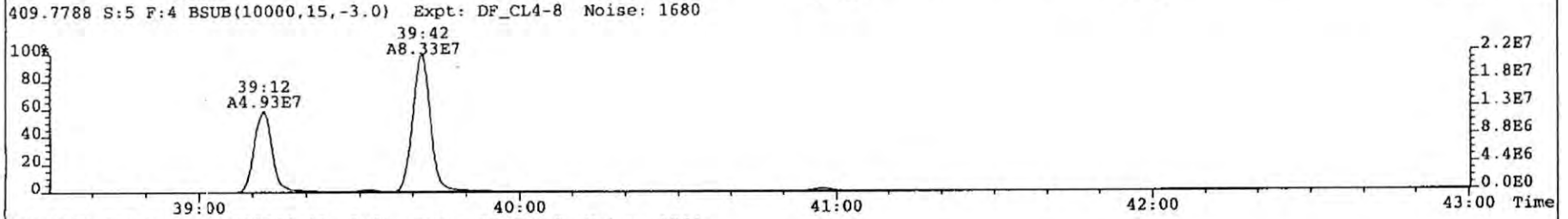
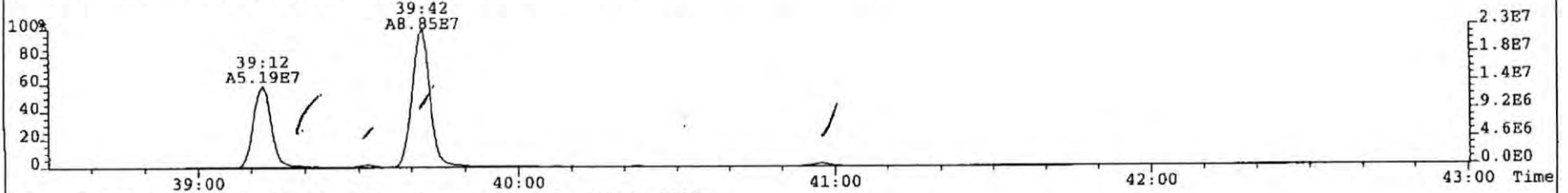
409.7974 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 90



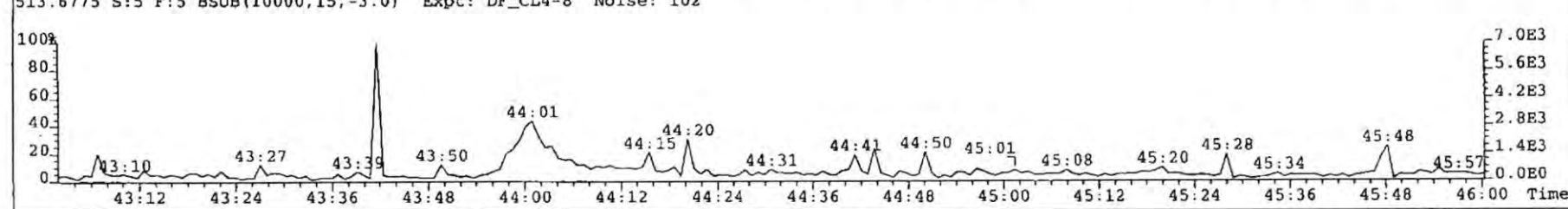
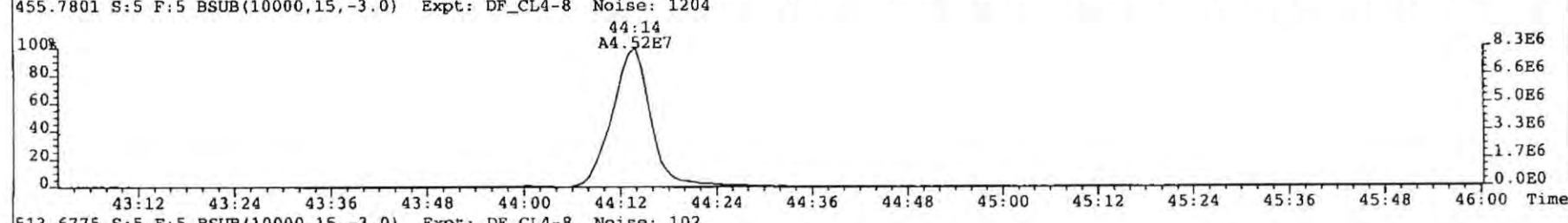
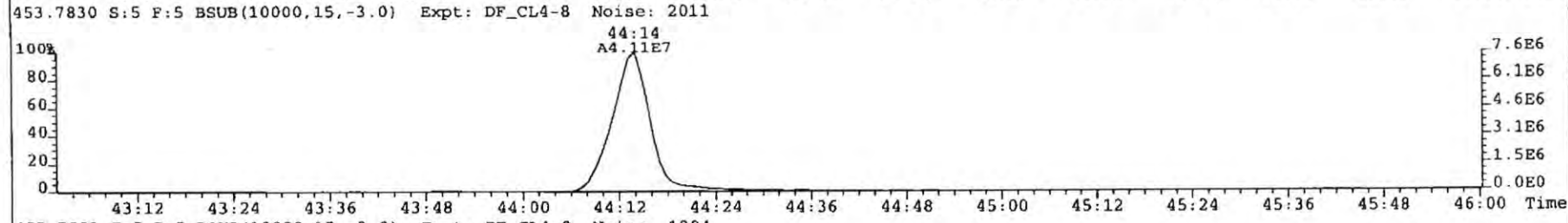
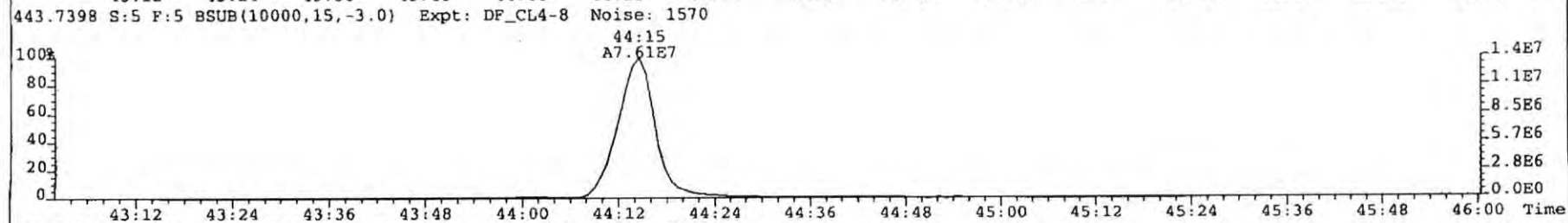
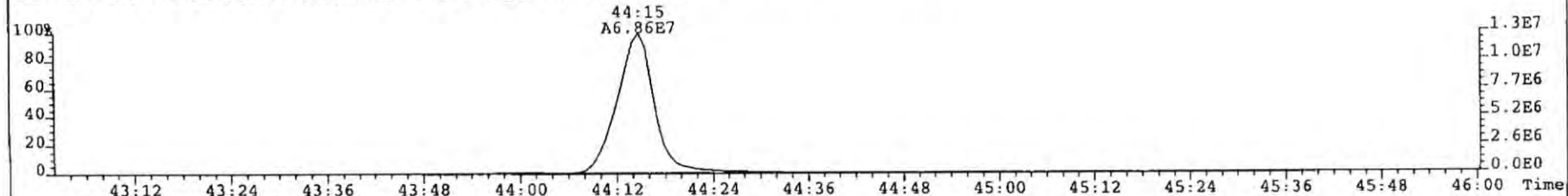
File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1174



File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1801



File: 090323P2 Acq: 24-MAR-2009 00:38:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: P1158_6682_003 PO-BA-26-SS-A-090226 10.37g Vial# 33 File Text: AP DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 347



1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-BA-26-SS-A-090226 Filename: 090311P2 S: 7 Vial: 95 Acq: 11-MAR-09 21:30:40
 Lab ID: P1158_6630_003 GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08Wt/Vol: 10.19
 Sample text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	1.03e+05	0.61 n	26:56	1.08	0.873	1188	2.5	0.197	-
Ax	1,2,3,7,8-PeCDD	4.43e+05	1.56 y	32:34	1.00	5.00	1180	2.5	0.322	-
Ax	1,2,3,4,7,8-HxCDD	8.18e+05	1.17 y	36:33	1.08	10.2	9969	2.5	2.42	-
Ax	1,2,3,6,7,8-HxCDD	4.74e+06	1.24 y	36:40	0.94	60.1	9969	2.5	2.48	-
Ax	1,2,3,7,8,9-HxCDD	1.88e+06	1.28 y	36:59	0.99	21.9	9969	2.5	2.61	-
Ax	1,2,3,4,6,7,8-HpCDD	1.36e+08	1.05 y	40:12	0.97	1750	33836	2.5	8.89	-
Ax	OCDD	9.50e+08	0.89 y	43:47	1.06	15600	25530	2.5	9.68	-
Ax2	OCDD-a	5.70e+07	2.55 y	43:47	0.06	15700	3349	2.5	21.3	-
Ax	2,3,7,8-TCDF	7.74e+05	0.80 y	26:00	1.05	3.93	1198	2.5	0.122	-
Ax	1,2,3,7,8-PeCDF	6.50e+05	1.42 y	31:04	0.98	4.22	2273	2.5	0.352	-
Ax	2,3,4,7,8-PeCDF	1.52e+06	1.55 y	32:14	1.01	9.99	2273	2.5	0.345	-
Ax	1,2,3,4,7,8-HxCDF	3.27e+06	1.23 y	35:34	1.22	24.3	5722	2.5	0.521	-
Ax	1,2,3,6,7,8-HxCDF	1.40e+06	1.25 y	35:43	1.15	9.82	5722	2.5	0.559	-
Ax	2,3,4,6,7,8-HxCDF	1.98e+06	1.27 y	36:23	1.13	14.0	5722	2.5	0.571	-
Ax	1,2,3,7,8,9-HxCDF	6.16e+05	1.22 y	37:23	1.12	5.28	5722	2.5	0.752	-
Ax	1,2,3,4,6,7,8-HpCDF	3.90e+07	1.04 y	39:02	1.37	325	7411	2.5	0.756	-
Ax	1,2,3,4,7,8,9-HpCDF	1.41e+06	1.10 y	40:46	1.32	13.3	7411	2.5	1.02	-
Ax	OCDF	5.60e+07	0.89 y	44:01	0.94	717	5709	2.5	1.73	-
Ax2	OCDF-a	3.35e+06	2.46 y	44:01	0.05	763	2880	2.5	15.5	-
ES	13C-2,3,7,8-TCDD	2.15e+07	0.83 y	26:55	0.99	75.0	1626	2.5	0.108	36.9
ES	13C-1,2,3,7,8-PeCDD	1.74e+07	1.67 y	32:34	0.98	70.0	3918	2.5	0.309	35.7
ES	13C-1,2,3,4,7,8-HxCDD	1.46e+07	1.30 y	36:33	1.08	72.6	5032	2.5	0.522	37.0
ES	13C-1,2,3,6,7,8-HxCDD	1.64e+07	1.28 y	36:39	0.98	75.6	5032	2.5	0.461	36.8
ES	13C-1,2,3,7,8,9-HxCDD	1.69e+07	1.30 y	36:58	0.98	75.6	5032	2.5	0.467	38.5
ES	13C-1,2,3,4,6,7,8-HpCDD	1.57e+07	1.08 y	40:11	0.98	88.1	4409	2.5	0.504	43.9
ES	13C-OCDD	2.25e+07	0.89 y	43:46	0.66	185	7177	2.5	1.22	47.0
ES	13C-2,3,7,8-TCDF	3.70e+07	0.79 y	25:59	0.96	75.0	1979	2.5	0.0863	38.2
ES	13C-1,2,3,7,8-PeCDF	3.07e+07	1.60 y	31:03	0.85	69.8	3112	2.5	0.152	35.6
ES	13C-2,3,4,7,8-PeCDF	2.95e+07	1.59 y	32:12	0.88	64.6	3112	2.5	0.147	32.9
ES	13C-1,2,3,4,7,8-HxCDF	2.17e+07	0.54 y	35:34	1.47	79.5	9578	2.5	0.730	40.5
ES	13C-1,2,3,6,7,8-HxCDF	2.42e+07	0.54 y	35:43	1.78	73.7	9578	2.5	0.606	37.6
ES	13C-2,3,4,6,7,8-HxCDF	2.46e+07	0.53 y	36:22	1.61	82.5	9578	2.5	0.669	42.0
ES	13C-1,2,3,7,8,9-HxCDF	2.05e+07	0.55 y	37:20	1.40	79.2	9578	2.5	0.769	40.4
ES	13C-1,2,3,4,6,7,8-HpCDF	1.73e+07	0.45 y	39:01	1.16	80.3	8128	2.5	0.787	40.9
ES	13C-1,2,3,4,7,8,9-HpCDF	1.58e+07	0.46 y	40:45	0.92	92.6	8128	2.5	0.992	47.2
ES	13C-OCDF	3.27e+07	0.89 y	44:00	1.04	170	4831	2.5	0.523	43.3
CS	37Cl-2,3,7,8-TCDD	9.75e+06		26:57	0.99	33.0			0.0237	42.1
CS	13C-1,2,3,4,7-PeCDD	1.71e+07	1.70 y	32:03	0.77	74.2	3918	2.5	0.336	37.8
CS	13C-1,2,3,4,6-PeCDF	3.38e+07	1.60 y	30:31	0.79	82.5	3112	2.5	0.163	42.0
CS	13C-1,2,3,4,6,9-HxCDF	2.30e+07	0.54 y	36:01	1.41	88.0	9578	2.5	0.762	44.9
CS	13C-1,2,3,4,6,8,9-HpCDF	1.71e+07	0.46 y	39:30	0.91	102	8128	2.5	1.00	51.8
NA	n/a	*	* n	NotF>>	Div0	*	1189	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.86e+07	0.85 y	26:14	-	16.4	1626	2.5	-	-
JS	13C-1,2,3,4-TCDF	1.01e+08	0.78 y	24:32	-	17.9	1979	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.82e+07	1.30 y	36:51	-	8.19	1700	2.5	-	-

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Analyst: _____

Date: _____

SS	37Cl-2,3,7,8-TCDD	9.75e+06		26:57	1.00	89.1		0.0636	113
SS	13C-1,2,3,4,7-PeCDD	1.71e+07	1.70 y	32:03	0.93	207	3918 2.5	1.15	105
SS	13C-1,2,3,4,6-PeCDF	3.38e+07	1.60 y	30:31	0.94	230	3112 2.5	0.507	117
SS	13C-1,2,3,4,6,9-HxCDF	2.30e+07	0.54 y	36:01	0.80	233	9578 2.5	1.34	119
SS	13C-1,2,3,4,6,8,9-HpCDF	1.71e+07	0.46 y	39:30	0.79	246	8128 2.5	1.43	126
SBS	2,4,6,8-TCDF	*	* n	NotF>	1.05	*	1198 2.5	0.122	-
Ay	1,3,6,8-TCDD	1.19e+06	0.77 y	22:58	1.08	10.0	1188 2.5	0.197	-
Ay	1,2,3,9-TCDD	3.11e+04	0.97 n	26:46	1.08	0.262	1188 2.5	0.197	-
Ay	1,2,8,9-TCDD	2.78e+04	0.84 y	27:58	1.08	0.235	1188 2.5	0.197	-
Ay	1,2,4,7,9-PeCDD	1.85e+06	1.62 y	30:00	1.00	20.8	1180 2.5	0.322	-
Ay	1,2,3,8,9-PeCDD	1.18e+05	1.81 n	33:02	1.00	1.33	1180 2.5	0.322	-
Ay	1,2,4,6,7,9-HxCDD	2.40e+07	1.25 y	34:51	1.00	294	9969 2.5	2.51	-
Ay	1,2,3,4,6,7,9-HpCDD	3.97e+08	1.07 y	39:21	0.97	5110	33836 2.5	8.89	-
Ay	1,3,6,8-TCDF	3.39e+05	0.78 y	20:49	1.05	1.72	1198 2.5	0.122	-
Ay	2,3,4,8-TCDF	1.67e+05	0.73 y	25:53	1.05	0.848	1198 2.5	0.122	-
Ay	1,2,8,9-TCDF	*	* n	NotF>	1.05	*	1198 2.5	0.122	-
Ay	1,3,4,6,8-PeCDF	7.37e+06	1.74 y	28:11	1.05	37.4	210 2.5	0.0213	-
Ay	1,2,3,8,9-PeCDF	9.79e+04	1.58 y	33:19	1.00	0.639	2273 2.5	0.348	-
Ay	1,2,3,4,6,8-HxCDF	5.59e+06	1.23 y	34:10	1.15	41.8	5722 2.5	0.594	-
Tot	Total Tetra-Dioxins	3.53e+06	0.77 y	22:58	1.08	29.8	1188 2.5	0.197	-
Tot	Total Penta-Dioxins	5.45e+06	1.62 y	30:00	1.00	61.4	1180 2.5	0.322	-
Tot	Total Hexa-Dioxins	5.74e+07	1.25 y	34:51	1.00	704	9969 2.5	2.51	-
Tot	Total Hepta-Dioxins	5.34e+08	1.07 y	39:21	0.97	6870	33836 2.5	8.89	-
Tot	Total Tetra-Furans	8.68e+06	0.78 y	20:49	1.05	44.0	1198 2.5	0.122	-
Tot	Total Penta-Furans	1.05e+07	1.62 y	29:47	1.00	68.3	2273 2.5	0.348	-
Tot	Total Hexa-Furans	5.69e+07	1.23 y	34:10	1.15	424	5722 2.5	0.594	-
Tot	Total Hepta-Furans	1.08e+08	1.04 y	39:02	1.35	938	7411 2.5	0.878	-
Tot	TCDD EMPC	3.89e+06	0.77 y	22:58	1.08	32.8	1188 2.5	0.197	-
Tot	PeCDD EMPC	6.15e+06	1.62 y	30:00	1.00	69.4	1180 2.5	0.322	-
Tot	HxCDD EMPC	5.74e+07	1.25 y	34:51	1.00	704	9969 2.5	2.51	-
Tot	HpCDD EMPC	5.34e+08	1.07 y	39:21	0.97	6870	33836 2.5	8.89	-
Tot	TCDF EMPC	1.06e+07	0.78 y	20:49	1.05	53.7	1198 2.5	0.122	-
Tot	PeCDF EMPC	1.05e+07	1.62 y	29:47	1.00	68.3	2273 2.5	0.348	-
Tot	HxCDF EMPC	5.69e+07	1.23 y	34:10	1.15	424	5722 2.5	0.594	-
Tot	HpCDF EMPC	1.08e+08	1.04 y	39:02	1.35	938	7411 2.5	0.878	-
AS	13C-1,3,6,8-TCDD	2.28e+07	0.82 y	22:57	1.09	70.3	1626 2.5	0.0987	35.8
AS	13C-1,3,6,8-TCDF	4.35e+07	0.78 y	20:47	1.09	77.5	1979 2.5	0.0758	39.5
DPE	HxCDFE	*		NotF>	-	*	-	-	-
DPE	HpCDFE	*		NotF>	-	*	-	-	-
DPE	OCDFE	*		NotF>	-	*	-	-	-
DPE	NCDFE	*		NotF>	-	*	-	-	-
DPE	DCDFE	*		NotF>	-	*	-	-	-
LMC	Fn1 check mass	*		NotF>	-	*	-	-	-
LMC	Fn2 check mass	*		NotF>	-	*	-	-	-
LMC	Fn3 check mass	*		NotF>	-	*	-	-	-
LMC	Fn4 check mass	*		NotF>	-	*	-	-	-
LMC	Fn5 check mass	*		NotF>	-	*	-	-	-

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Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 14 Checkcode: 4547
 File Name: 090311P2 Sample #: 7 Sample text: P1158_6630_003 PO-BA-26-SS-A-090226 10.»

Acquired: 11-MAR-09 21:30:40 Processed: 19-MAR-09 17:26:06

Total Conc.: 32.836 Unnamed Conc.: 21.445 Homolog count: 16

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
22:58	5.159e+05	n	6.714e+05	n	0.77	y	1.187e+06	1.187e+06	9.92e+01	y	10.0	1,3,6,8-TCDD
23:23	3.583e+05	n	4.306e+05	n	0.83	y	7.889e+05	7.889e+05	7.42e+01	y	6.66	
23:51	6.092e+04	n	6.673e+04	n	0.91	n	1.276e+05	1.181e+05	1.15e+01	y	0.997	
24:43	4.530e+04	y	5.899e+04	n	0.77	y	1.043e+05	1.043e+05	1.37e+01	y	0.880	
24:57	1.148e+05	y	1.408e+05	y	0.82	y	2.556e+05	2.556e+05	2.11e+01	y	2.16	
25:10	1.326e+05	y	1.639e+05	y	0.81	y	2.965e+05	2.965e+05	3.02e+01	y	2.50	
25:23	3.550e+04	y	4.101e+04	n	0.87	y	7.650e+04	7.650e+04	7.95e+00	y	0.646	
25:39	1.947e+04	y	2.584e+04	n	0.75	y	4.531e+04	4.531e+04	5.63e+00	y	0.382	
25:50	4.784e+04	y	5.022e+04	y	0.95	n	9.806e+04	8.888e+04	9.35e+00	y	0.750	
26:15	8.177e+04	n	1.036e+05	y	0.79	y	1.854e+05	1.854e+05	2.09e+01	y	1.56	
26:23	1.259e+04	y	9.617e+03	y	1.31	n	2.221e+04	1.702e+04	2.44e+00	n	0.144	
26:39	2.172e+05	y	2.675e+05	n	0.81	y	4.847e+05	4.847e+05	4.75e+01	y	4.09	
26:46	1.709e+04	y	1.754e+04	y	0.97	n	3.463e+04	3.105e+04	4.54e+00	y	0.262	1,2,3,9-TCDD
26:56	4.499e+04	y	7.404e+04	y	0.61	n	1.190e+05	1.034e+05	1.50e+01	y	0.873	2,3,7,8-TCDD
27:17	3.274e+04	n	4.687e+04	n	0.70	y	7.960e+04	7.960e+04	9.29e+00	y	0.672	
27:58	1.269e+04	y	1.510e+04	n	0.84	y	2.779e+04	2.779e+04	3.65e+00	y	0.672	2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 14 Checkcode: 4547
 File Name: 090311P2 Sample #: 7 Sample text: P1158_6630_003 PO-BA-26-SS-A-090226 10.»

Acquired: 11-MAR-09 21:30:40 Processed: 19-MAR-09 17:26:06

Total Conc.: 69.401 Unnamed Conc.: 42.230 Homolog count: 10

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:00	1.143e+06	n	7.049e+05	y	1.62	y	1.848e+06	1.848e+06	1.15e+02	y	20.8	1,2,4,7,9-PeCDD
30:33	4.411e+05	n	2.683e+05	n	1.64	y	7.094e+05	7.094e+05	6.22e+01	y	8.00	
31:07	5.436e+05	n	3.215e+05	n	1.69	y	8.651e+05	8.651e+05	7.48e+01	y	9.76	
31:18	3.436e+05	y	2.127e+05	y	1.62	y	5.564e+05	5.564e+05	5.37e+01	y	6.27	
31:25	4.239e+05	y	2.315e+05	y	1.83	n	6.554e+05	5.903e+05	6.06e+01	y	6.66	
31:41	3.741e+05	n	2.275e+05	n	1.64	y	6.016e+05	6.016e+05	4.04e+01	y	6.78	
32:04	1.660e+05	n	1.191e+05	n	1.39	y	2.850e+05	2.850e+05	2.81e+01	y	3.21	
32:34	2.704e+05	y	1.730e+05	y	1.56	y	4.434e+05	4.434e+05	4.09e+01	y	5.00	1,2,3,7,8-PeCDD
32:40	8.251e+04	y	5.443e+04	y	1.52	y	1.369e+05	1.369e+05	1.36e+01	y	1.54	
33:02	8.340e+04	n	4.620e+04	y	1.81	n	1.296e+05	1.178e+05	1.40e+01	y	1.33	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 14 Checkcode: 4547
 File Name: 090311P2 Sample #: 7 Sample text: P1158_6630_003 PO-BA-26-SS-A-090226 10.»

Acquired: 11-MAR-09 21:30:40 Processed: 19-MAR-09 17:26:06

Total Conc.: 703.51 Unnamed Conc.: 317.489 Homolog count: 8

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
34:51	1.336e+07	n		1.065e+07	n		1.25	y	2.400e+07	2.400e+07	3.15e+02	y	294 1,2,4,6,7,9-HxCDD
35:31	2.022e+06	n		1.612e+06	n		1.25	y	3.634e+06	3.634e+06	4.86e+01	y	44.5
35:48	9.648e+06	n		7.854e+06	n		1.23	y	1.750e+07	1.750e+07	1.75e+02	y	214
35:56	2.203e+06	n		1.672e+06	n		1.32	y	3.875e+06	3.875e+06	4.60e+01	y	47.4
36:33	4.415e+05	n		3.769e+05	n		1.17	y	8.185e+05	8.185e+05	1.08e+01	y	10.2 1,2,3,4,7,8-HxCDD
36:40	2.624e+06	n		2.117e+06	n		1.24	y	4.741e+06	4.741e+06	5.72e+01	y	60.1 1,2,3,6,7,8-HxCDD
36:52	4.874e+05	n		4.307e+05	n		1.13	y	9.180e+05	9.180e+05	1.21e+01	y	11.2
36:59	1.055e+06	n		8.216e+05	n		1.28	y	1.876e+06	1.876e+06	2.08e+01	y	21.9 1,2,3,7,8,9-HxCDD
Totals Results												Analytical Perspectives	[Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 14 Checkcode: 4547
 File Name: 090311P2 Sample #: 7 Sample text: P1158_6630_003 PO-BA-26-SS-A-090226 10.»

Acquired: 11-MAR-09 21:30:40 Processed: 19-MAR-09 17:26:06

Total Conc.: 6866.7 Unnamed Conc.: * Homolog count: 2

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:21	2.053e+08	n		1.921e+08	n		1.07	y	3.974e+08	3.974e+08	1.62e+03	y	5110 1,2,3,4,6,7,9-HpCDD
40:12	6.963e+07	n		6.656e+07	n		1.05	y	1.362e+08	1.362e+08	5.02e+02	y	1750 1,2,3,4,6,7,8-HpCDD
Totals Results												Analytical Perspectives	[Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 14 Checkcode: 4547
 File Name: 090311P2 Sample #: 7 Sample text: P1158_6630_003 PO-BA-26-SS-A-090226 10.»

Acquired: 11-MAR-09 21:30:40 Processed: 19-MAR-09 17:26:06

Total Conc.: 53.704 Unnamed Conc.: 47.213 Homolog count: 21

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
20:49	1.480e+05	n		1.908e+05	n		0.78	y	3.388e+05	3.388e+05	3.49e+01	y	1.72 1,3,6,8-TCDF
21:21	2.021e+05	n		2.594e+05	n		0.78	y	4.615e+05	4.615e+05	4.19e+01	y	2.34
21:58	5.525e+05	n		7.136e+05	n		0.77	y	1.266e+06	1.266e+06	1.17e+02	y	6.42
22:30	5.041e+05	n		6.299e+05	n		0.80	y	1.134e+06	1.134e+06	6.45e+01	y	5.75
22:56	5.541e+05	n		5.992e+05	y		0.92	n	1.153e+06	1.061e+06	7.79e+01	y	5.38
23:24	3.566e+05	y		4.506e+05	y		0.79	y	8.071e+05	8.071e+05	7.30e+01	y	4.09
23:33	1.032e+05	y		1.382e+05	y		0.75	y	2.414e+05	2.414e+05	2.12e+01	y	1.22
23:43	1.966e+05	y		2.608e+05	y		0.75	y	4.574e+05	4.574e+05	4.11e+01	y	2.32
24:08	7.955e+04	y		1.105e+05	y		0.72	y	1.900e+05	1.900e+05	2.00e+01	y	0.963
24:17	1.607e+05	y		2.057e+05	y		0.78	y	3.664e+05	3.664e+05	3.90e+01	y	1.86
24:26	3.849e+05	y		4.339e+05	y		0.89	n	8.188e+05	7.680e+05	8.08e+01	y	3.89
24:34	1.978e+05	y		2.839e+05	y		0.70	y	4.817e+05	4.817e+05	4.46e+01	y	2.44
25:03	3.251e+05	n		3.989e+05	n		0.82	y	7.241e+05	7.241e+05	6.39e+01	y	3.67
25:20	1.159e+05	n		1.428e+05	y		0.81	y	2.588e+05	2.588e+05	2.43e+01	y	1.31
25:33	5.793e+04	y		6.984e+04	n		0.83	y	1.278e+05	1.278e+05	1.29e+01	y	0.648
25:46	8.720e+04	y		1.078e+05	y		0.81	y	1.950e+05	1.950e+05	1.87e+01	y	0.988
25:53	7.086e+04	y		9.643e+04	y		0.73	y	1.673e+05	1.673e+05	2.53e+01	y	0.848 2,3,4,8-TCDF
26:00	3.435e+05	y		4.309e+05	y		0.80	y	7.743e+05	7.743e+05	7.47e+01	y	3.93 2,3,7,8-TCDF
26:23	2.942e+05	n		3.930e+05	n		0.75	y	6.871e+05	6.871e+05	6.58e+01	y	3.48
26:38	3.649e+04	n		4.074e+04	n		0.90	n	7.723e+04	7.211e+04	7.53e+00	y	0.366
26:57	1.722e+04	n		7.585e+03	y		2.27	n	2.481e+04	1.342e+04	2.02e+00	n	0.0681
Totals Results												Analytical Perspectives	[Form: TOT]

Totals class: PeCDF EMPC Function: 2 Run #: 14 Checkcode: 4547

File Name: 090311P2 Sample #: 7 Sample text: P1158_6630_003 PO-BA-26-SS-A-090226 10.»

Acquired: 11-MAR-09 21:30:40 Processed: 19-MAR-09 17:26:06

Total Conc.: 68.274 Unnamed Conc.: 53.431 Homolog count: 10

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
29:47	4.335e+05	n	2.675e+05	n	1.62 y	7.010e+05	7.010e+05	3.27e+01	y	4.58
29:57	2.834e+06	n	1.727e+06	n	1.64 y	4.561e+06	4.561e+06	1.63e+02	y	29.8
30:22	1.117e+05	n	6.685e+04	n	1.67 y	1.785e+05	1.785e+05	7.12e+00	y	1.17
30:37	8.571e+05	n	5.025e+05	n	1.71 y	1.360e+06	1.360e+06	3.90e+01	y	8.87
30:52	2.168e+05	n	1.429e+05	n	1.52 y	3.597e+05	3.597e+05	1.54e+01	y	2.35
31:04	3.818e+05	n	2.683e+05	n	1.42 y	6.501e+05	6.501e+05	3.36e+01	y	4.22 1,2,3,7,8-PeCDF
31:22	4.972e+05	n	3.020e+05	n	1.65 y	7.992e+05	7.992e+05	3.01e+01	y	5.22
32:06	1.398e+05	n	8.676e+04	n	1.61 y	2.265e+05	2.265e+05	9.94e+00	y	1.48
32:14	9.227e+05	n	5.959e+05	n	1.55 y	1.519e+06	1.519e+06	5.14e+01	y	9.99 2,3,4,7,8-PeCDF
33:19	5.995e+04	n	3.795e+04	n	1.58 y	9.790e+04	9.790e+04	4.60e+00	y	0.639 1,2,3,8,9-PeCDF

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDF EMPC Function: 3 Run #: 14 Checkcode: 4547
 File Name: 090311P2 Sample #: 7 Sample text: P1158_6630_003 PO-BA-26-SS-A-090226 10.»

Acquired: 11-MAR-09 21:30:40 Processed: 19-MAR-09 17:26:06

Total Conc.: 424.01 Unnamed Conc.: 328.854 Homolog count: 10

REJECTED

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:10	3.084e+06	n	2.504e+06	n	1.23 y	5.587e+06	5.587e+06	1.25e+02	y	41.8 1,2,3,4,6,8-HxCDF
34:23	9.593e+06	n	7.758e+06	n	1.24 y	1.735e+07	1.735e+07	3.90e+02	y	130
34:48	3.122e+05	y	2.890e+05	y	1.08 y	6.012e+05	6.012e+05	1.33e+01	y	4.49
35:02	1.412e+07	n	1.123e+07	n	1.26 y	2.534e+07	2.534e+07	5.70e+02	y	189
35:28	2.708e+05	y	2.071e+05	y	1.31 y	4.779e+05	4.779e+05	1.06e+01	y	3.57
35:34	1.803e+06	n	1.469e+06	y	1.23 y	3.272e+06	3.272e+06	7.84e+01	y	24.3 1,2,3,4,7,8-HxCDF
35:43	7.761e+05	n	6.201e+05	y	1.25 y	1.396e+06	1.396e+06	3.03e+01	y	9.82 1,2,3,6,7,8-HxCDF
36:02	1.388e+05	n	9.916e+04	y	1.40 y	2.380e+05	2.380e+05	4.13e+00	y	1.78
36:23	1.109e+06	n	8.759e+05	n	1.27 y	1.985e+06	1.985e+06	4.26e+01	y	14.0 2,3,4,6,7,8-HxCDF
37:23	3.387e+05	n	2.778e+05	n	1.22 y	6.165e+05	6.165e+05	1.19e+01	y	5.28 1,2,3,7,8,9-HxCDF

Totals Results Analytical Perspectives [Form: TOT]

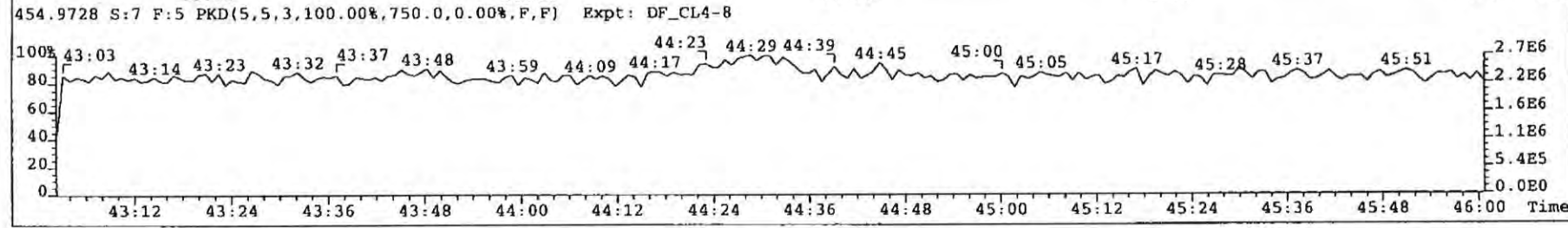
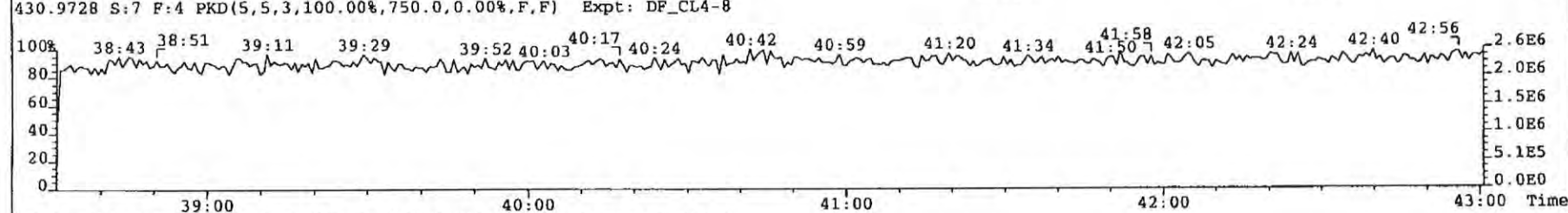
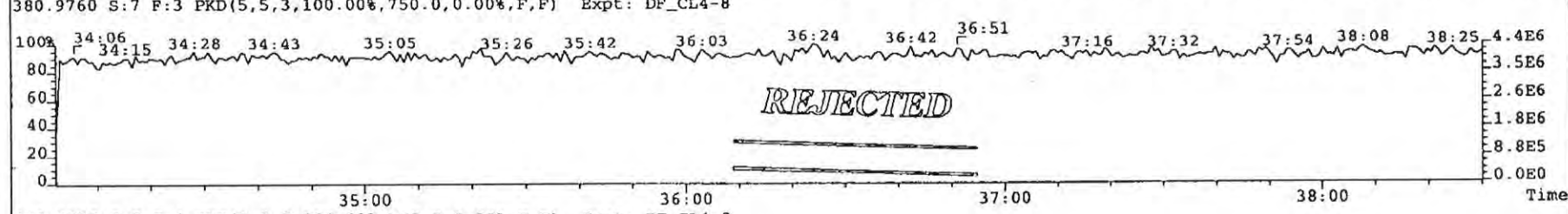
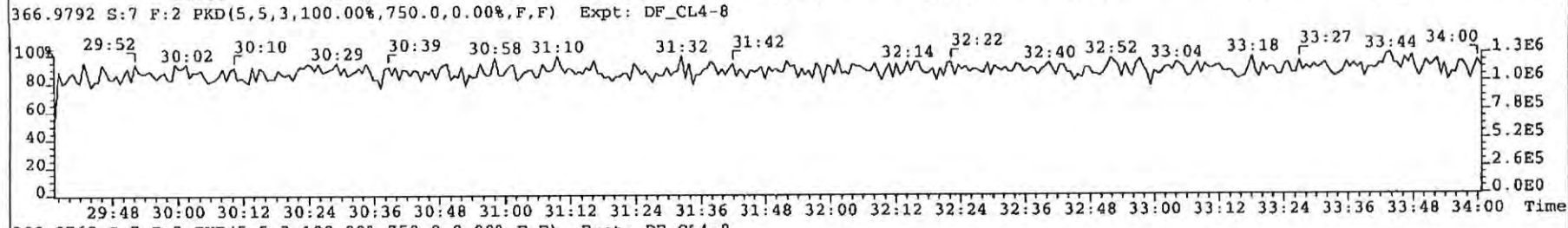
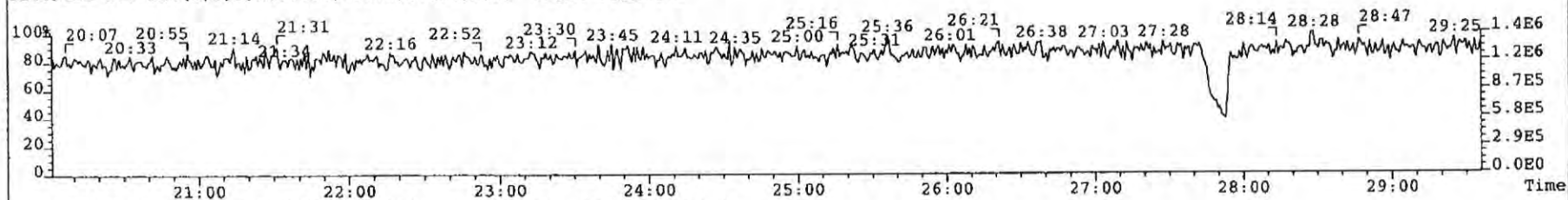
Totals class: HpCDF EMPC Function: 4 Run #: 14 Checkcode: 4547
 File Name: 090311P2 Sample #: 7 Sample text: P1158_6630_003 PO-BA-26-SS-A-090226 10.»

Acquired: 11-MAR-09 21:30:40 Processed: 19-MAR-09 17:26:06

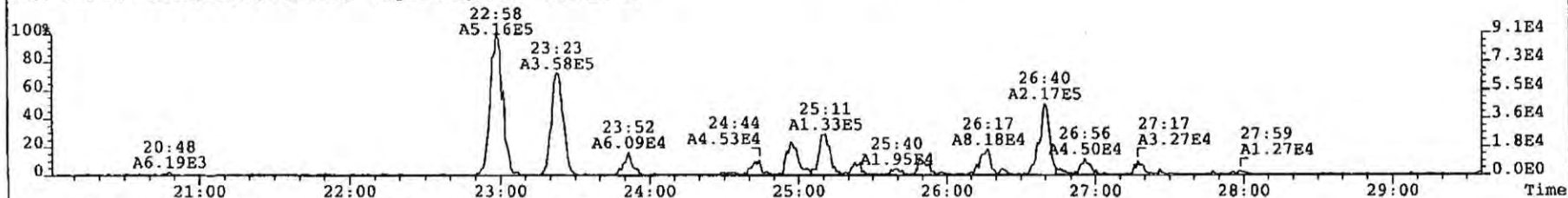
Total Conc.: 937.55 Unnamed Conc.: 599.101 Homolog count: 4

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:02	1.987e+07	n	1.915e+07	n	1.04 y	3.903e+07	3.903e+07	7.52e+02	y	325 1,2,3,4,6,7,8-HpCDF
39:21	4.027e+05	n	5.521e+05	n	0.73 n	9.547e+05	7.898e+05	1.83e+01	y	6.97
39:31	3.420e+07	n	3.288e+07	n	1.04 y	6.708e+07	6.708e+07	1.25e+03	y	592
40:46	7.369e+05	n	6.725e+05	n	1.10 y	1.409e+06	1.409e+06	2.29e+01	y	13.3 1,2,3,4,7,8,9-HpCDF

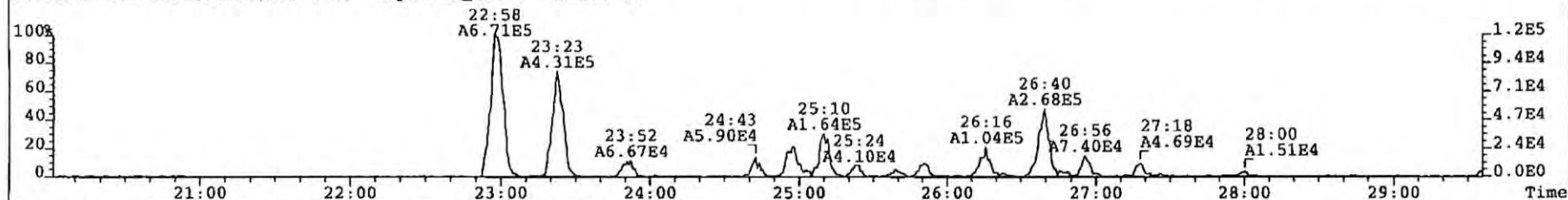
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



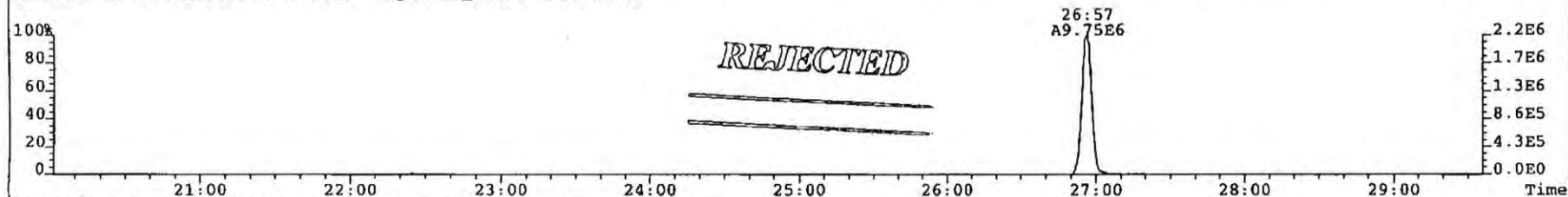
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
319.8965 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 87



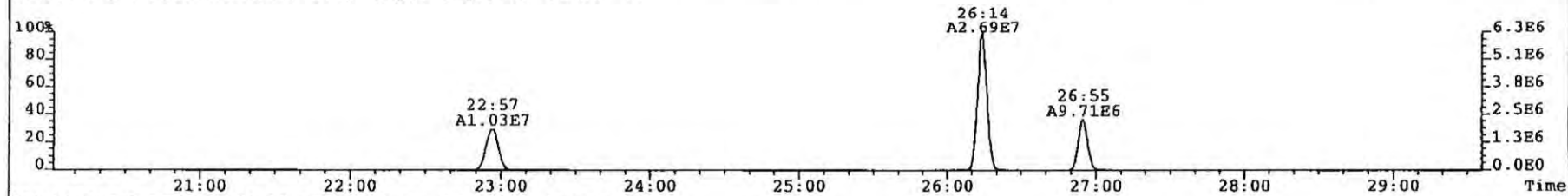
321.8936 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 68



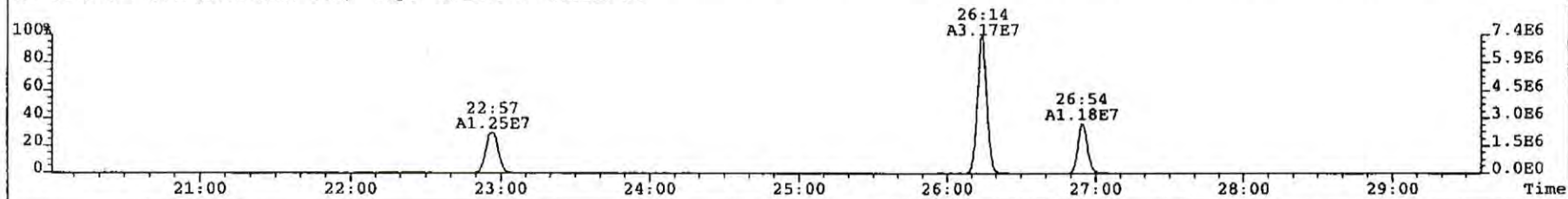
327.8850 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 90



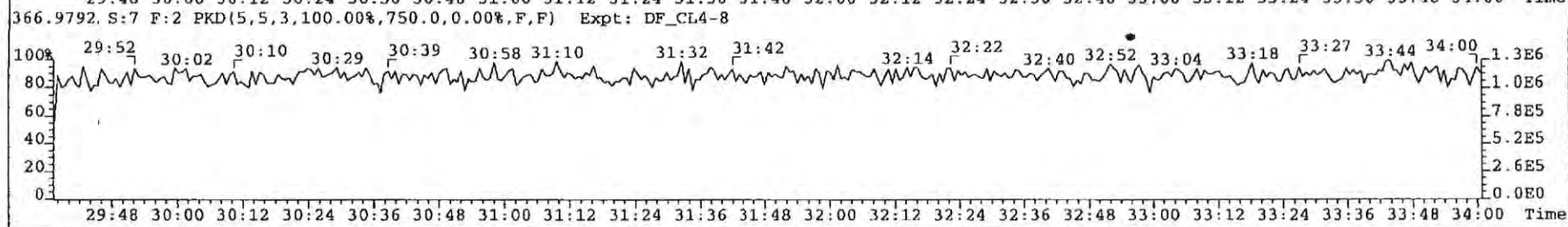
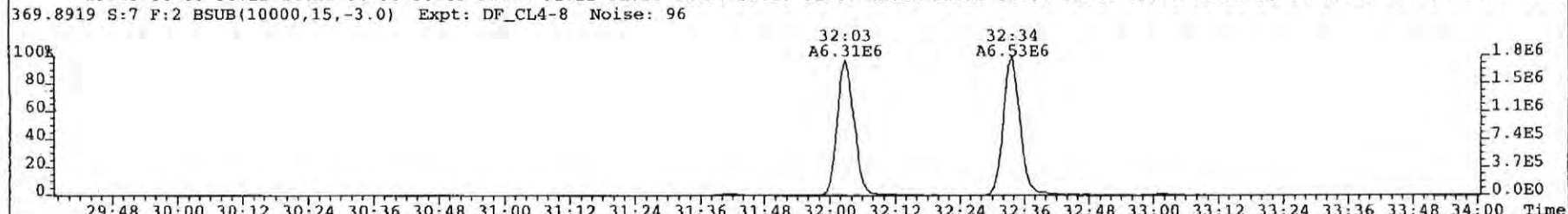
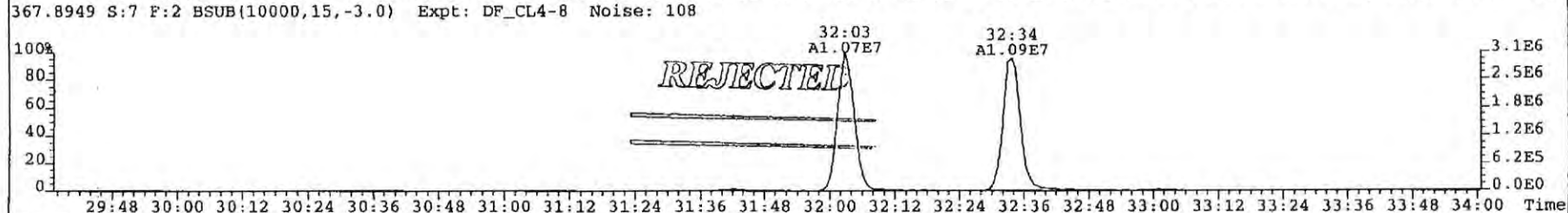
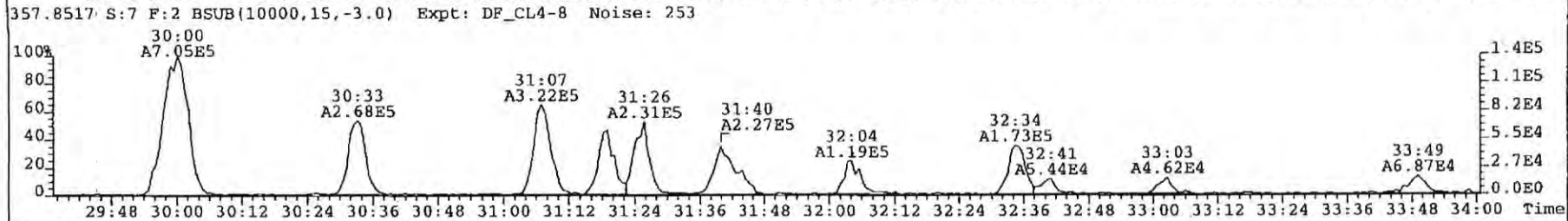
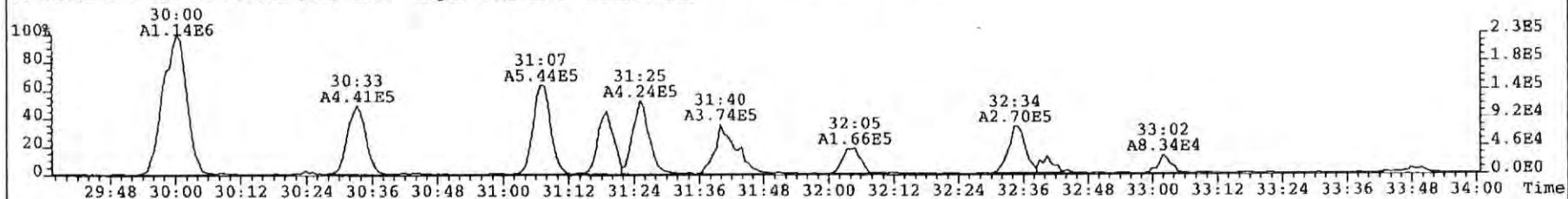
331.9368 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 78



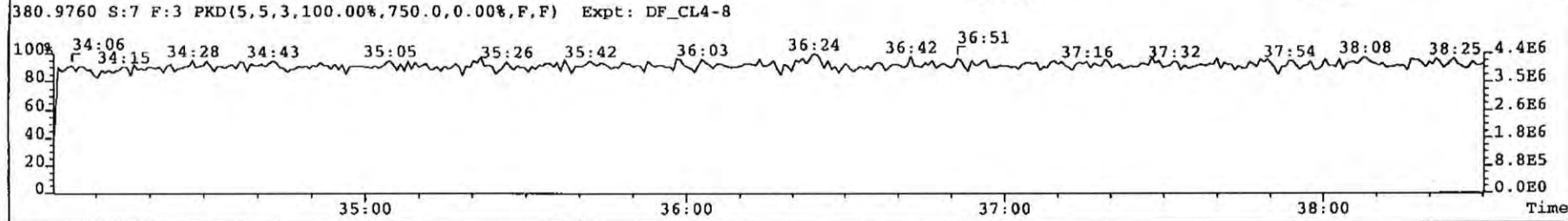
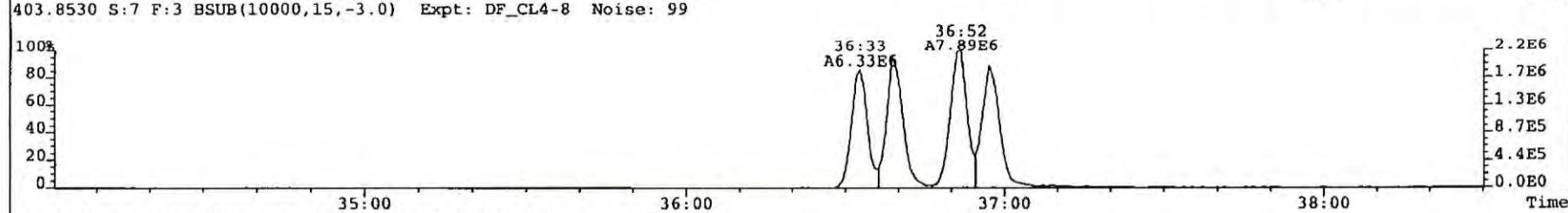
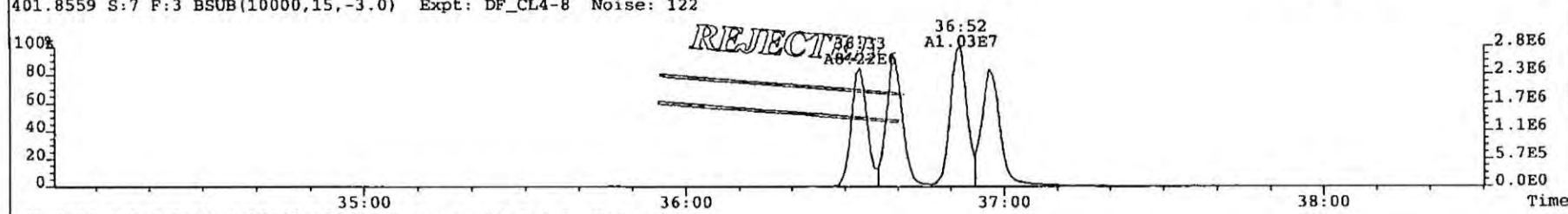
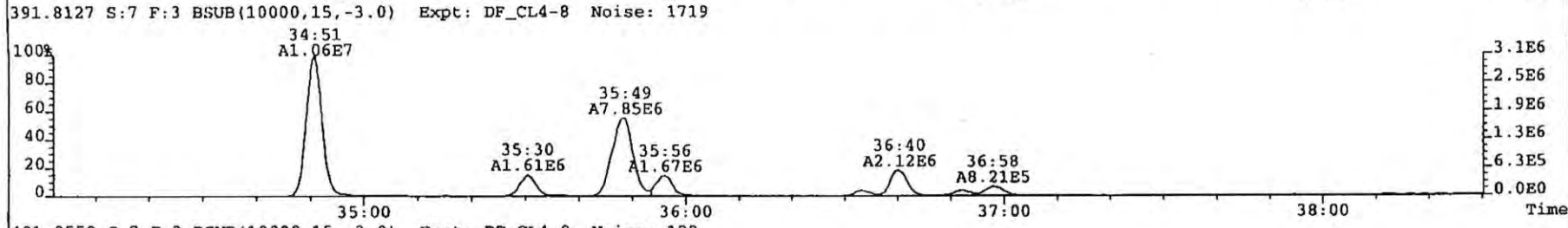
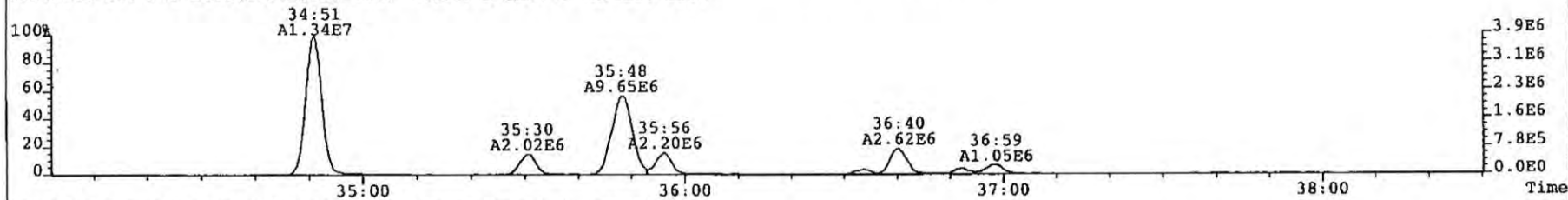
333.9339 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 94



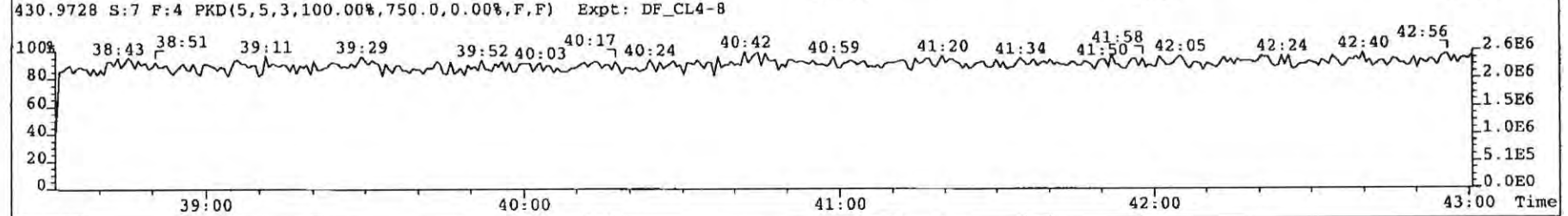
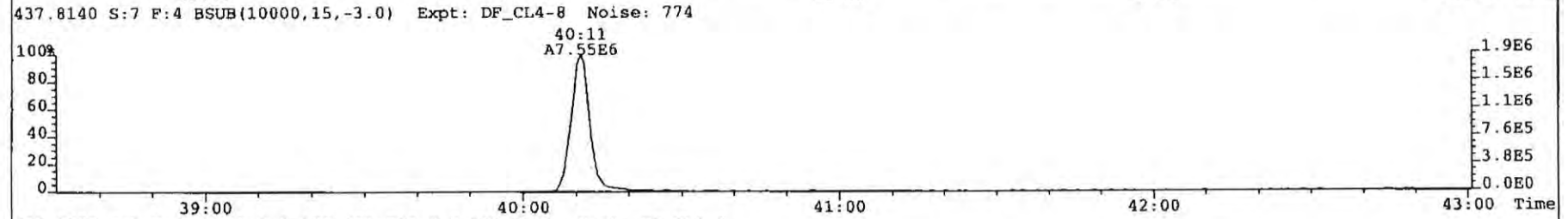
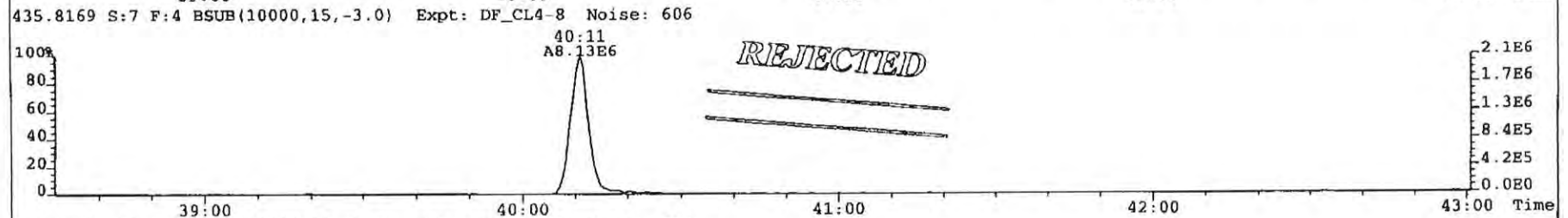
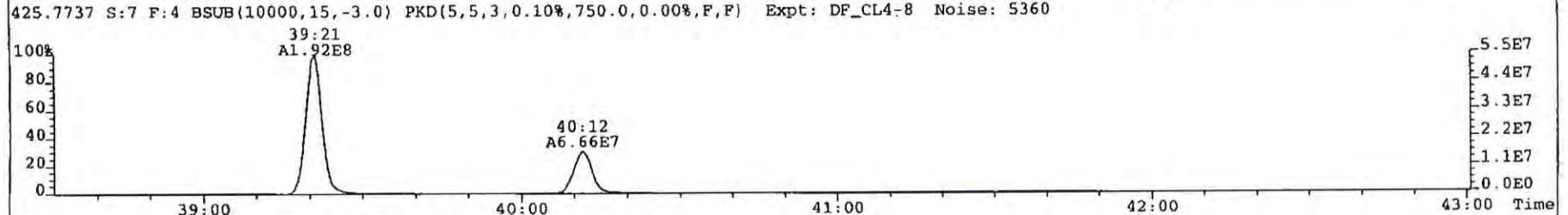
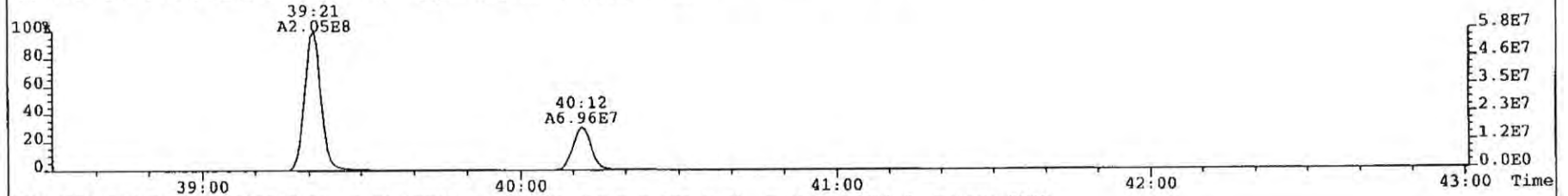
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
355.8546 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 451



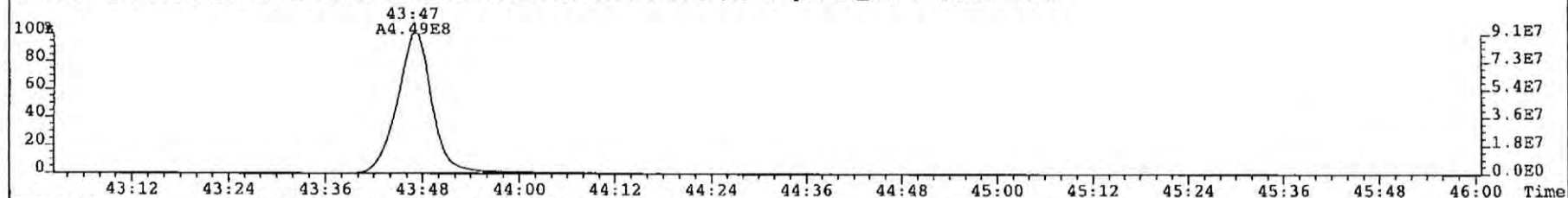
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
389.8156 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1550



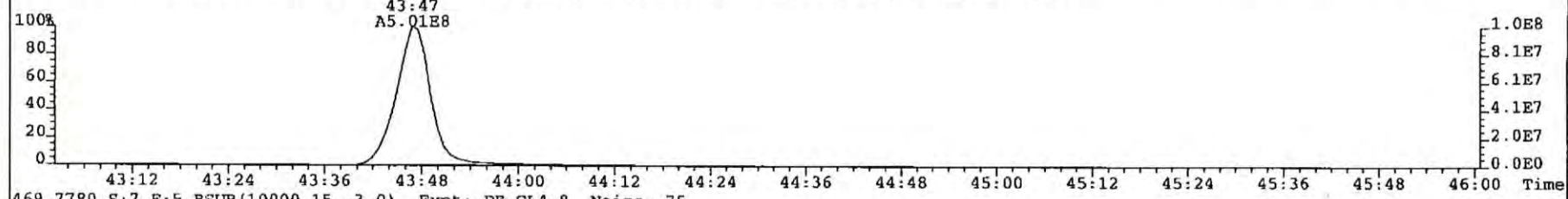
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 5560



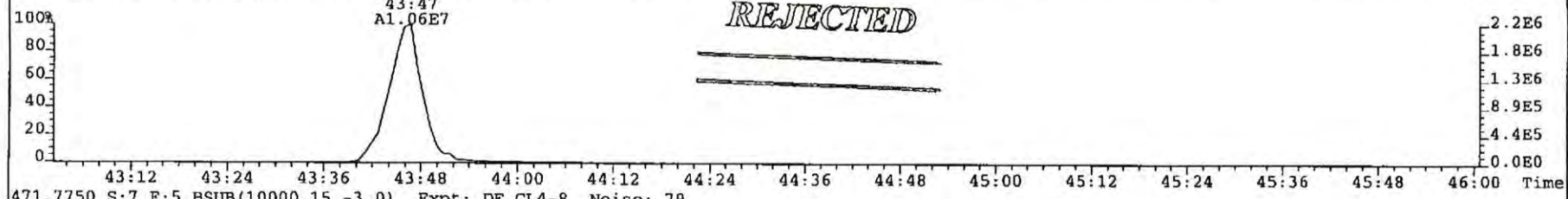
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
457.7377 S:7 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 3821



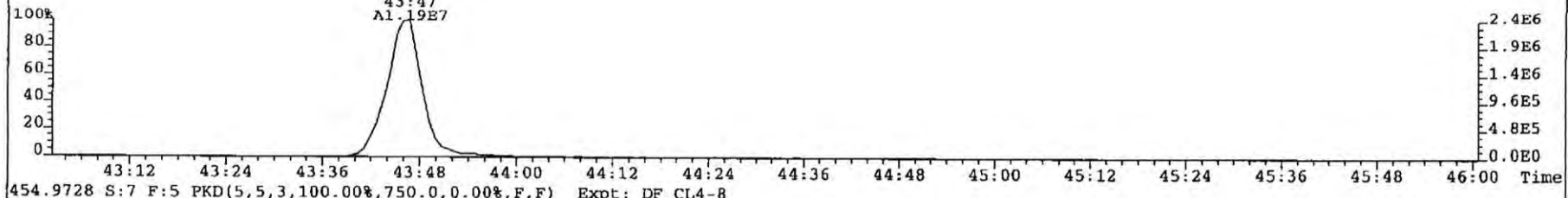
459.7348 S:7 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1263



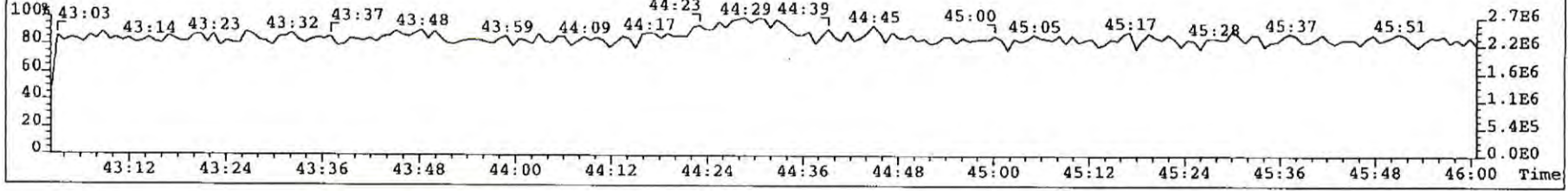
469.7780 S:7 F:5 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 75



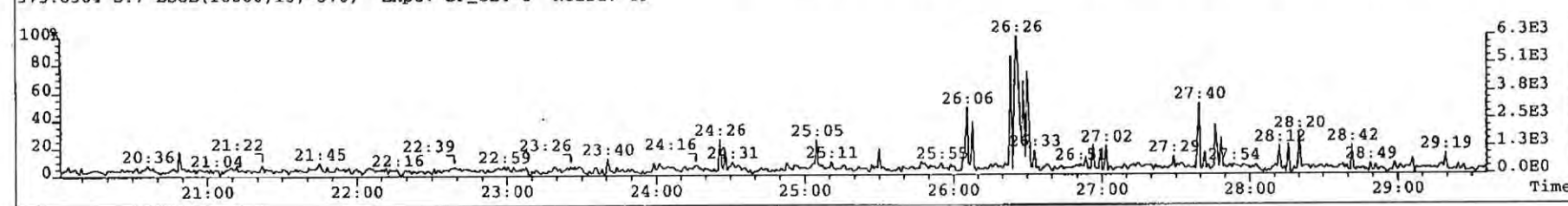
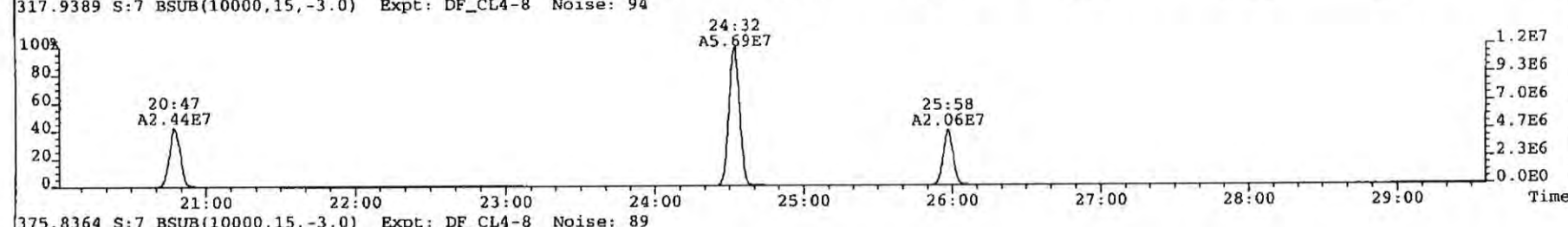
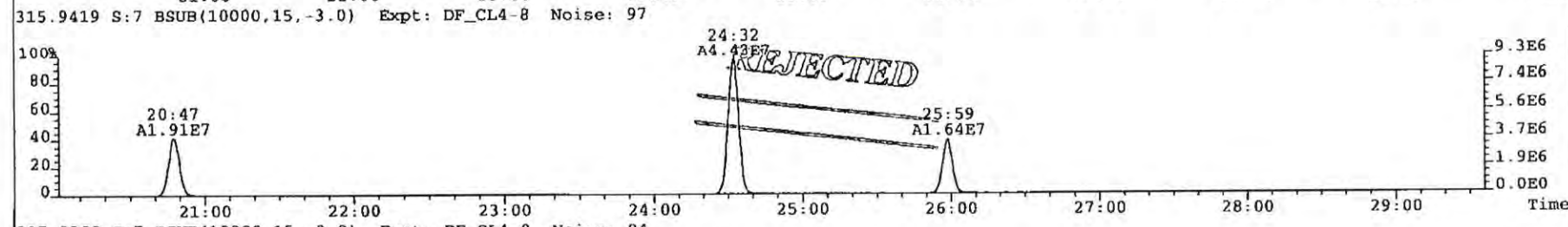
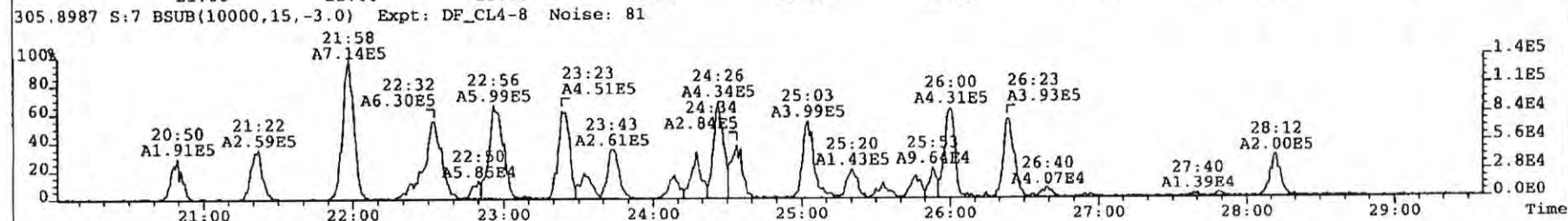
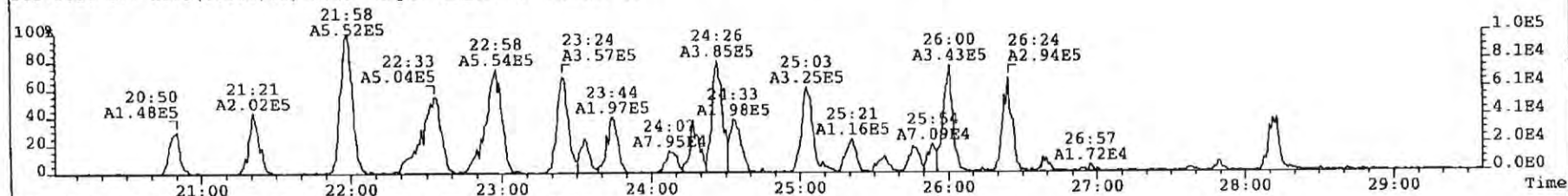
471.7750 S:7 F:5 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 79



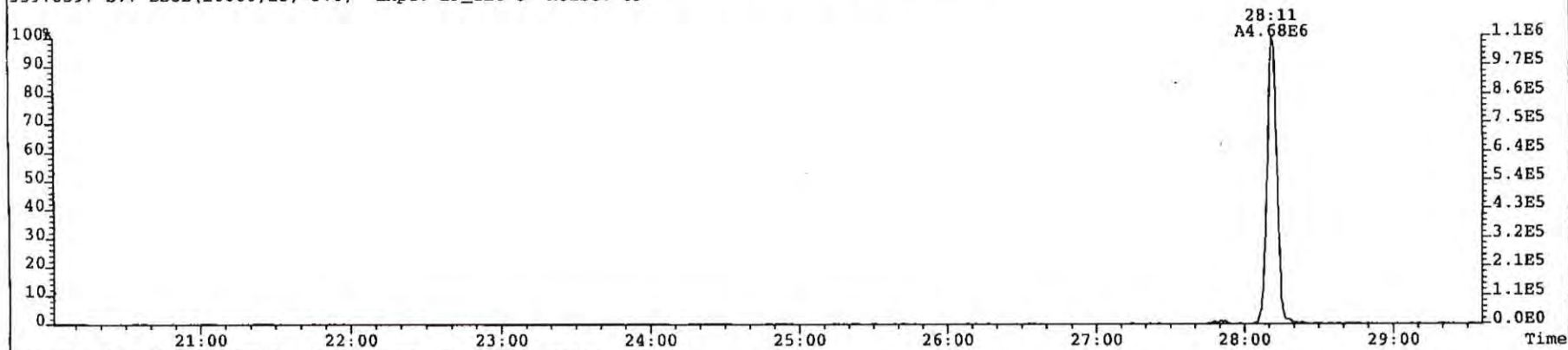
454.9728 S:7 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



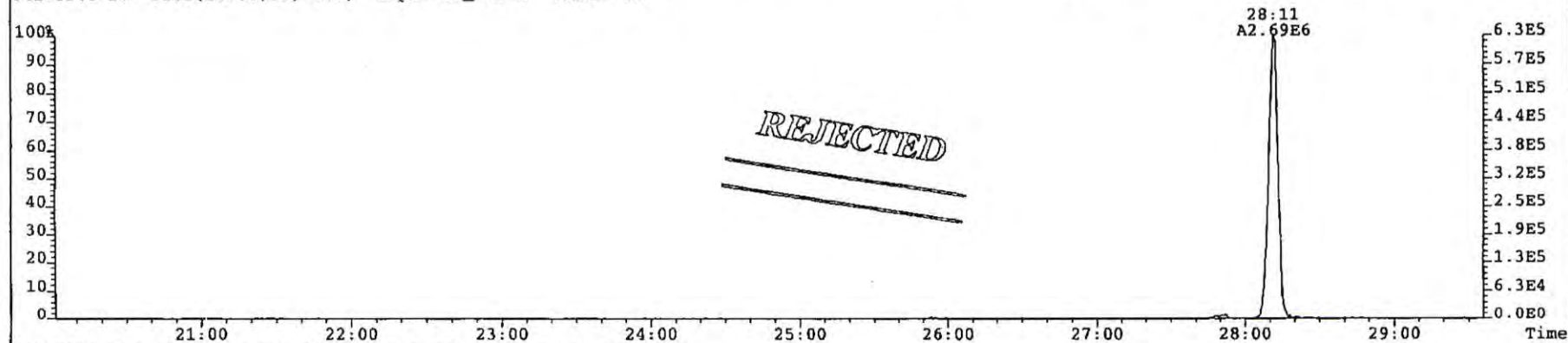
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
303.9016 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 82



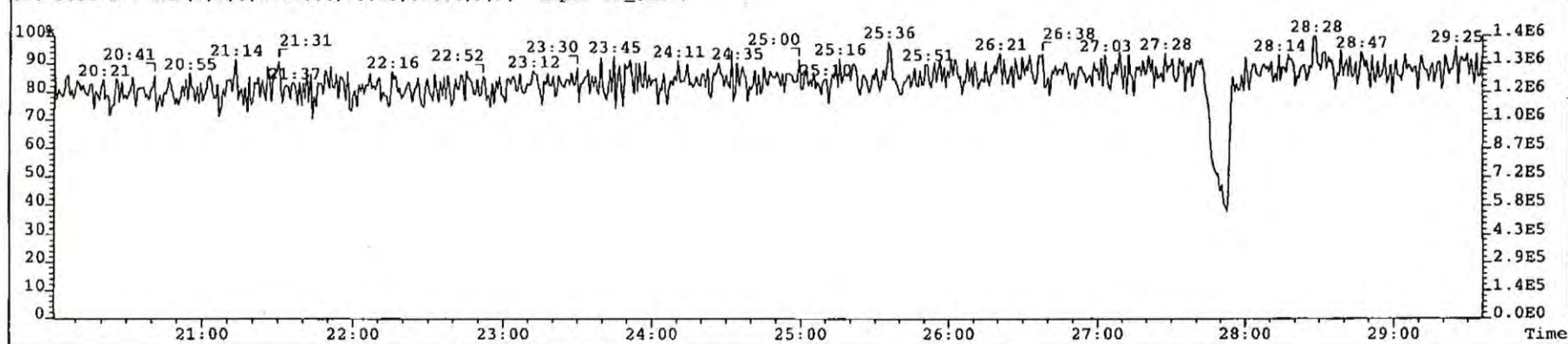
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
339.8597 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



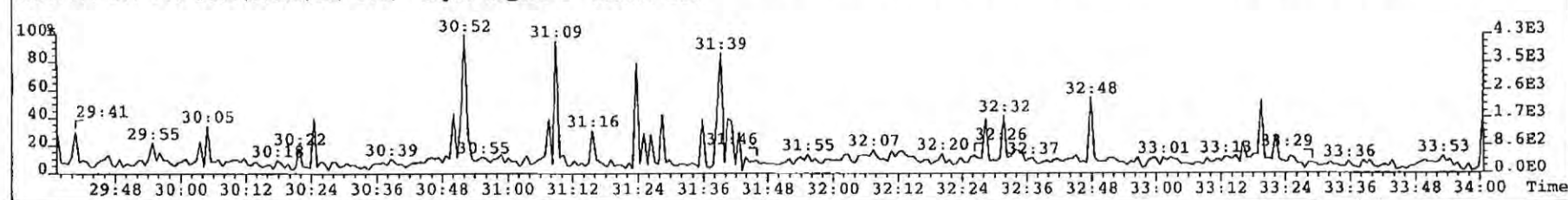
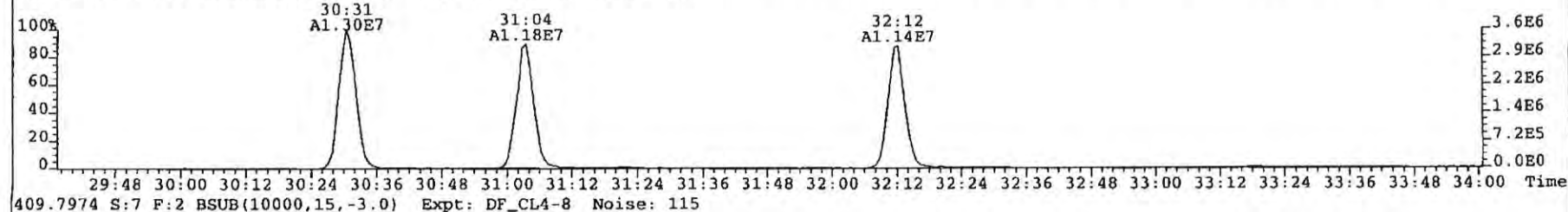
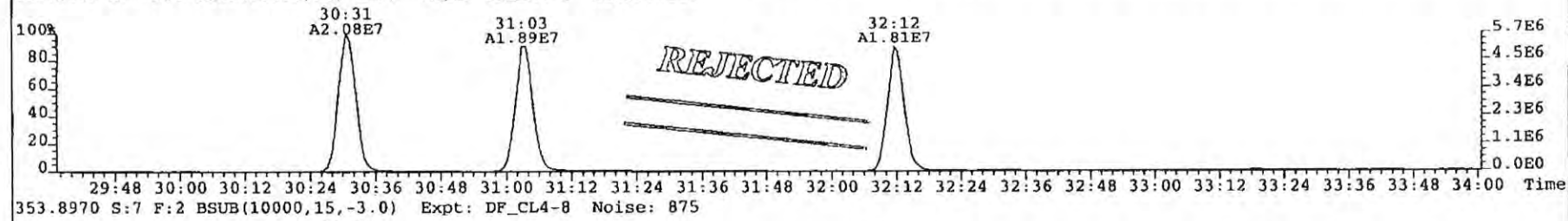
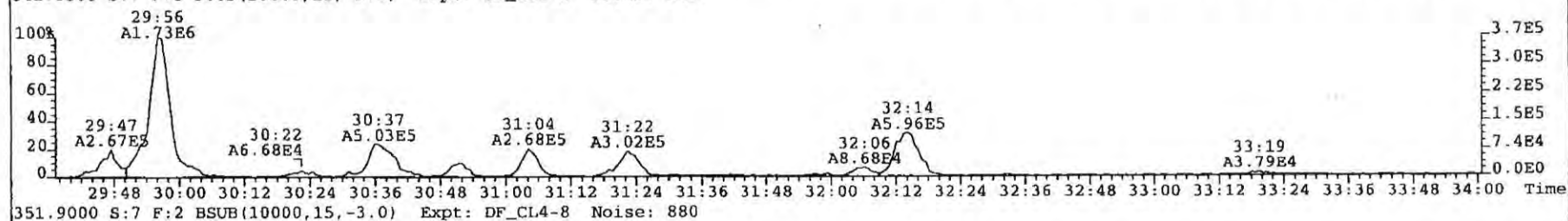
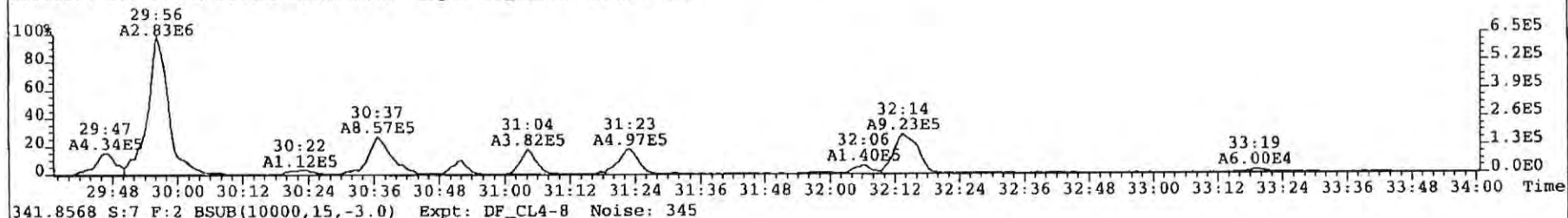
341.8568 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 88



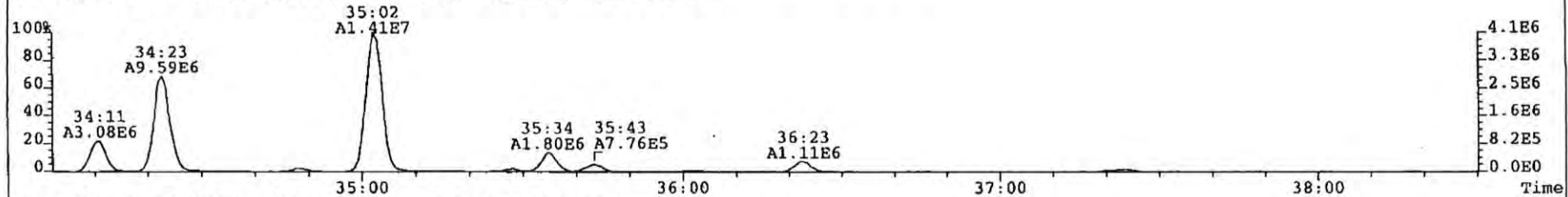
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



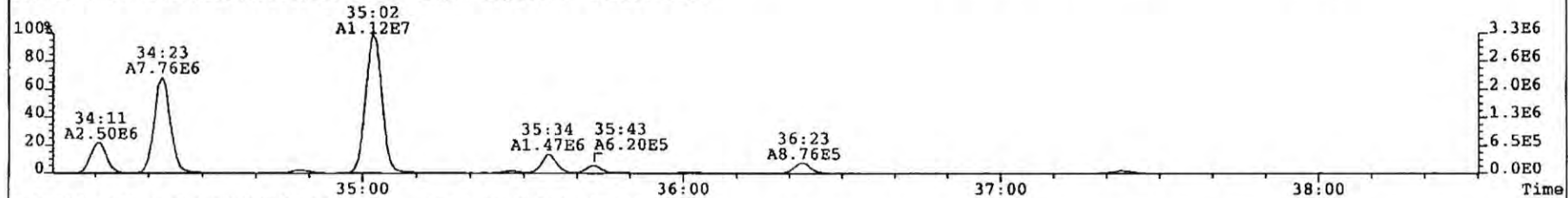
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 700



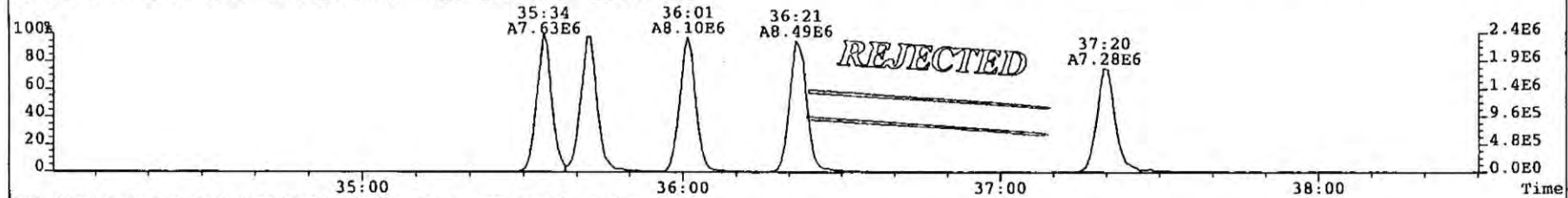
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
373.8207 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1693



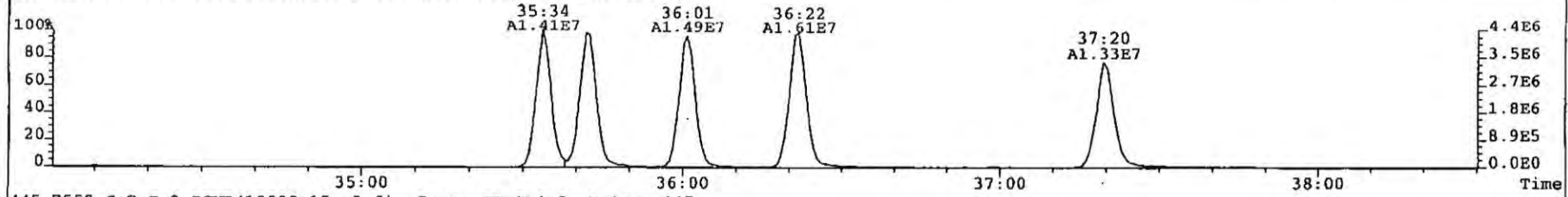
375.8178 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1426



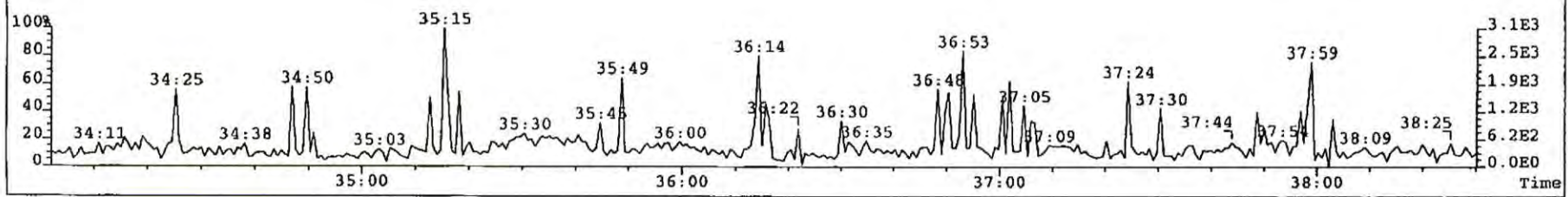
383.8639 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 168



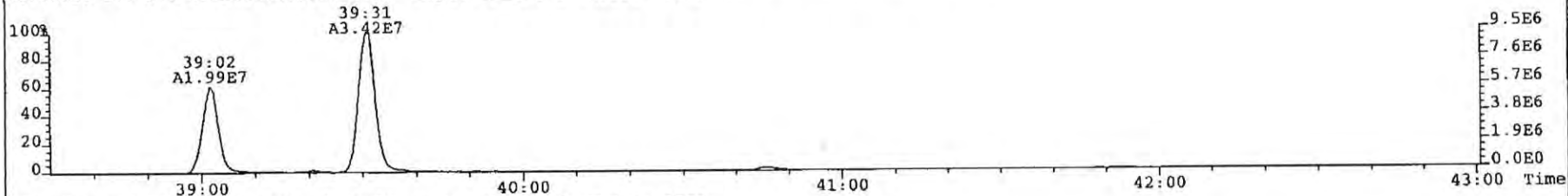
385.8610 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 669



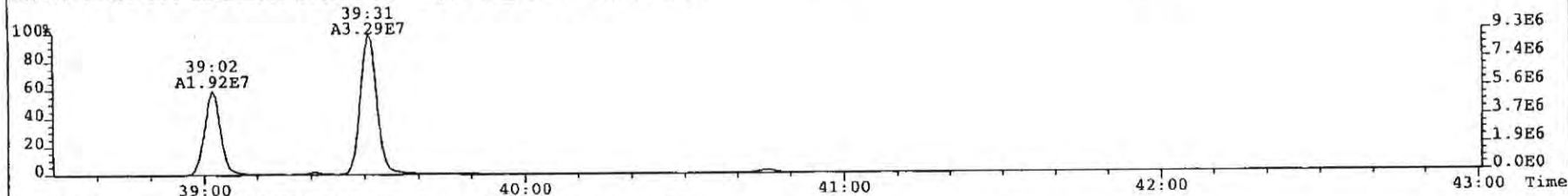
445.7555 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 117



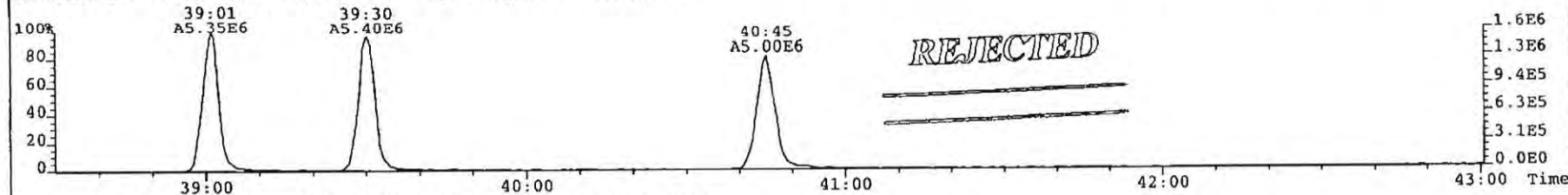
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
407.7818 S:7 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1079



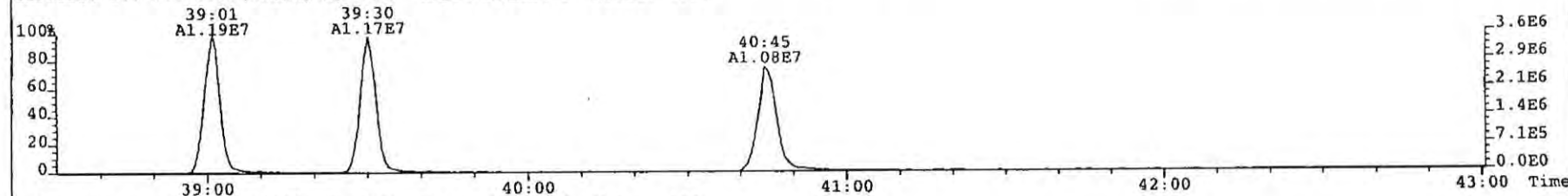
409.7788 S:7 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1799



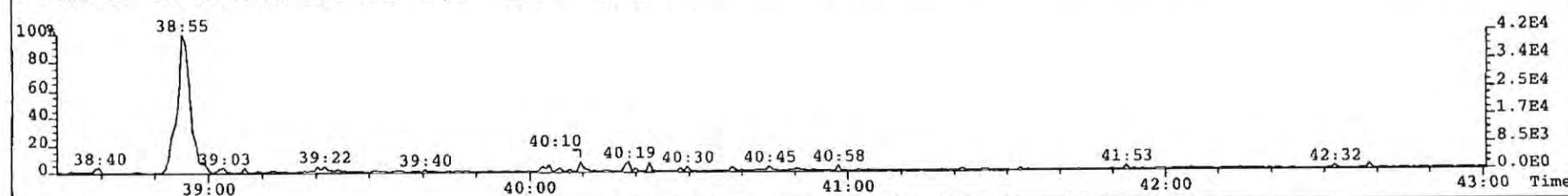
417.8253 S:7 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 761



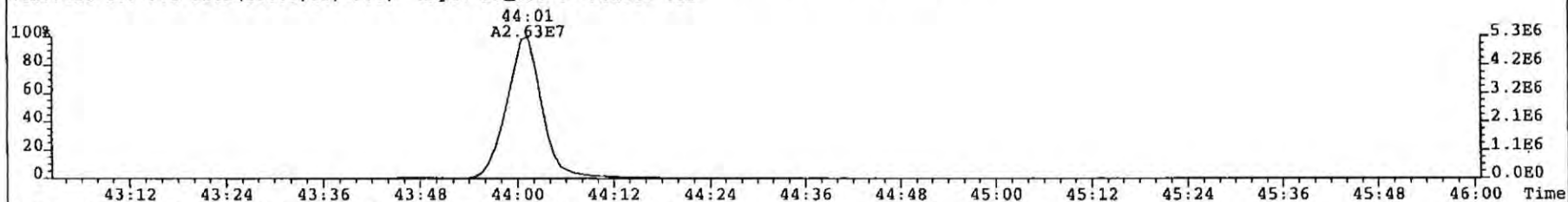
419.8220 S:7 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1898



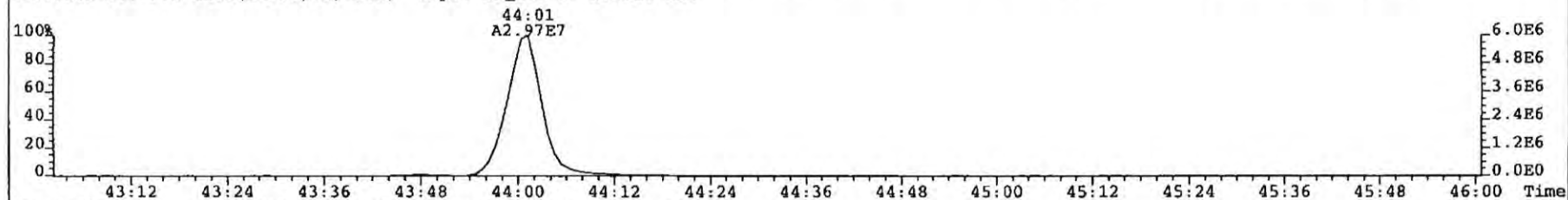
479.7165 S:7 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 103



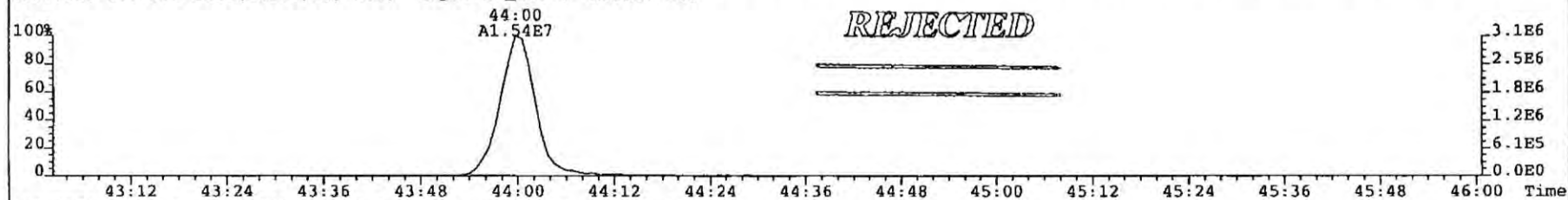
File: 090311P2 Acq: 11-MAR-2009 21:30:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: P1158_6630_003 PO-BA-26-SS-A-090226 10.19g Vial# 95 File Text: AP DB5
441.7428 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 812



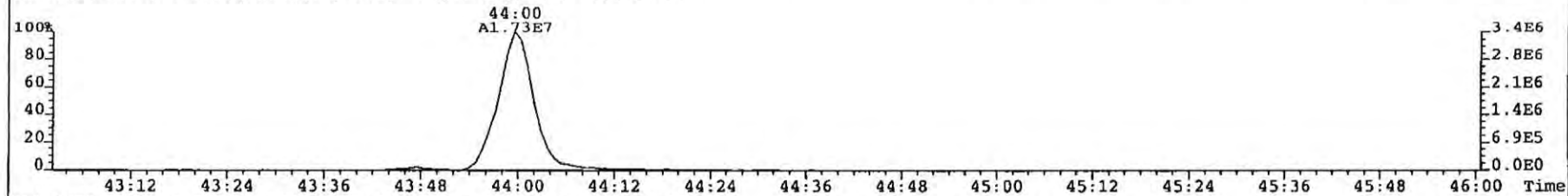
443.7398 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 833



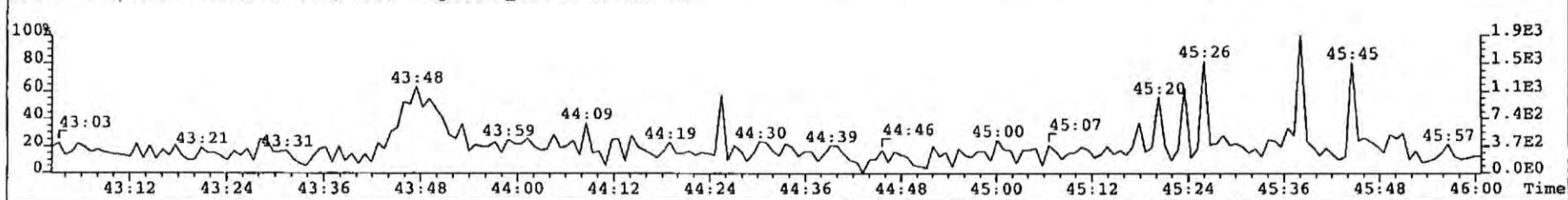
453.7830 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 102



455.7801 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



513.6775 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 98



1613/8290 Sample Summary


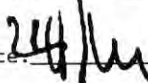
Analytical Perspectives

[Form: DF]

Client ID: PO-BA-27B-SS-A-090226 Filename: 090323P2 S: 6 Vial: 34 Acq: 24-MAR-09 01:28:40
 Lab ID: P1158_6682_004 GC column ID: db-5 Cal: MMI_DF_07012007A_25DEC08Wt/Vol: 10.26
 Sample text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	2.08e+05	0.81 y	27:16	1.08	0.784	998	2.5	0.0725	-
Ax	1,2,3,7,8-PeCDD	8.32e+05	1.53 y	32:49	1.00	4.16	1235	2.5	0.143	-
Ax	1,2,3,4,7,8-HxCDD	1.57e+06	1.20 y	36:45	1.08	7.97	4148	2.5	0.415	-
Ax	1,2,3,6,7,8-HxCDD	7.92e+06	1.21 y	36:52	0.94	43.0	4148	2.5	0.506	-
Ax	1,2,3,7,8,9-HxCDD	3.25e+06	1.24 y	37:11	0.99	16.3	4148	2.5	0.461	-
Ax	1,2,3,4,6,7,8-HpCDD	1.81e+08	1.08 y	40:23	0.97	922	22184	2.5	2.22	-
Ax	OCDD	1.18e+09	0.89 y	43:59	1.06	7340	52468	2.5	8.22	-
Ax2	OCDD-a	7.13e+07	2.56 y	43:59	0.06	7450	7542	2.5	19.8	-
Ax	2,3,7,8-TCDF	1.33e+06	0.80 y	26:21	1.05	3.31	2056	2.5	0.100	-
Ax	1,2,3,7,8-PeCDF	1.15e+06	1.64 y	31:20	0.98	3.55	1887	2.5	0.134	-
Ax	2,3,4,7,8-PeCDF	2.48e+06	1.64 y	32:29	1.01	7.30	1887	2.5	0.128	-
Ax	1,2,3,4,7,8-HxCDF	4.78e+06	1.23 y	35:47	1.22	16.1	4313	2.5	0.198	-
Ax	1,2,3,6,7,8-HxCDF	2.23e+06	1.21 y	35:56	1.15	7.12	4313	2.5	0.197	-
Ax	2,3,4,6,7,8-HxCDF	3.18e+06	1.24 y	36:34	1.13	10.5	4313	2.5	0.197	-
Ax	1,2,3,7,8,9-HxCDF	1.02e+06	1.40 y	37:36	1.12	3.91	4313	2.5	0.259	-
Ax	1,2,3,4,6,7,8-HpCDF	6.88e+07	1.05 y	39:12	1.37	247	6472	2.5	0.321	-
Ax	1,2,3,4,7,8,9-HpCDF	2.09e+06	1.01 y	40:57	1.32	8.66	6472	2.5	0.434	-
Ax	OCDF	8.41e+07	0.90 y	44:14	0.94	433	10179	2.5	1.32	-
Ax2	OCDF-a	4.81e+06	2.60 y	44:14	0.05	440	2156	2.5	4.97	-
ES	13C-2,3,7,8-TCDD	4.78e+07	0.83 y	27:15	0.99	173	2007	2.5	0.145	88.7
ES	13C-1,2,3,7,8-PeCDD	3.91e+07	1.63 y	32:48	0.83	168	6534	2.5	0.561	86.3
ES	13C-1,2,3,4,7,8-HxCDD	3.54e+07	1.29 y	36:45	1.08	171	11539	2.5	1.18	87.9
ES	13C-1,2,3,6,7,8-HxCDD	3.80e+07	1.29 y	36:51	1.23	162	11539	2.5	1.04	83.3
ES	13C-1,2,3,7,8,9-HxCDD	3.91e+07	1.25 y	37:10	1.21	169	11539	2.5	1.05	86.9
ES	13C-1,2,3,4,6,7,8-HpCDD	3.94e+07	1.09 y	40:22	0.98	210	8389	2.5	0.942	108
ES	13C-OCDD	5.89e+07	0.86 y	43:59	0.66	468	12004	2.5	2.01	120
ES	13C-2,3,7,8-TCDF	7.48e+07	0.81 y	26:20	0.96	205	1853	2.5	0.107	105
ES	13C-1,2,3,7,8-PeCDF	6.41e+07	1.57 y	31:19	0.85	197	10583	2.5	0.684	101
ES	13C-2,3,4,7,8-PeCDF	6.52e+07	1.58 y	32:26	0.88	193	10583	2.5	0.660	99.1
ES	13C-1,2,3,4,7,8-HxCDF	4.75e+07	0.54 y	35:46	1.47	168	17054	2.5	1.28	86.4
ES	13C-1,2,3,6,7,8-HxCDF	5.30e+07	0.53 y	35:54	1.78	156	17054	2.5	1.06	80.2
ES	13C-2,3,4,6,7,8-HxCDF	5.25e+07	0.54 y	36:34	1.61	171	17054	2.5	1.17	87.6
ES	13C-1,2,3,7,8,9-HxCDF	4.55e+07	0.53 y	37:33	1.40	170	17054	2.5	1.34	87.3
ES	13C-1,2,3,4,6,7,8-HpCDF	3.97e+07	0.47 y	39:11	1.16	179	17392	2.5	1.66	91.9
ES	13C-1,2,3,4,7,8,9-HpCDF	3.56e+07	0.46 y	40:57	0.92	202	17392	2.5	2.09	104
ES	13C-OCDF	8.07e+07	0.90 y	44:13	1.04	407	12869	2.5	1.37	104
CS	37Cl-2,3,7,8-TCDD	1.97e+07		27:17	0.99	71.5			0.480	91.7
CS	13C-1,2,3,4,7-PeCDD	3.71e+07	1.66 y	32:18	0.77	173	6534	2.5	0.609	88.7
CS	13C-1,2,3,4,6-PeCDF	6.65e+07	1.58 y	30:47	0.79	219	10583	2.5	0.735	112
CS	13C-1,2,3,4,6,9-HxCDF	4.74e+07	0.53 y	36:13	1.41	176	17054	2.5	1.33	90.2
CS	13C-1,2,3,4,6,8,9-HpCDF	3.77e+07	0.46 y	39:41	0.91	217	17392	2.5	2.11	111
NA	n/a	*	* n	NotF>	Div0	*	1874	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.43e+07	0.82 y	26:36	-	15.1	2007	2.5	-	-
JS	13C-1,2,3,4-TCDF	7.45e+07	0.80 y	24:56	-	13.1	1853	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.86e+07	1.27 y	37:04	-	8.34	2174	2.5	-	-

ok
 4 March 09
 ok

Analyst: 
 Date: 

ok
 24 March 09

SS	37Cl-2,3,7,8-TCDD	1.97e+07		27:17	1.00	80.1			0.520	103
SS	13C-1,2,3,4,7-PeCDD	3.71e+07	1.66 y	32:18	0.93	199	6534	2.5	0.811	102
SS	13C-1,2,3,4,6-PeCDF	6.65e+07	1.58 y	30:47	0.94	216	10583	2.5	0.792	111
SS	13C-1,2,3,4,6,9-HxCDF	4.74e+07	0.53 y	36:13	0.80	218	17054	2.5	1.12	112
SS	13C-1,2,3,4,6,8,9-HpCDF	3.77e+07	0.46 y	39:41	0.79	234	17392	2.5	1.49	120
SBS	2,4,6,8-TCDF	1.88e+06	0.80 y	22:25	1.05	4.69	2056	2.5	0.100	-
Ay	1,3,6,8-TCDD	2.95e+06	0.80 y	23:25	1.08	11.1	998	2.5	0.0725	-
Ay	1,2,3,9-TCDD	5.51e+04	0.84 y	27:08	1.08	0.207	998	2.5	0.0725	-
Ay	1,2,8,9-TCDD	5.45e+04	0.69 y	28:18	1.08	0.205	998	2.5	0.0725	-
Ay	1,2,4,7,9-PeCDD	3.65e+06	1.63 y	30:16	1.00	18.2	1235	2.5	0.143	-
Ay	1,2,3,8,9-PeCDD	2.34e+05	1.42 y	33:16	1.00	1.17	1235	2.5	0.143	-
Ay	1,2,4,6,7,9-HxCDD	2.33e+07	1.24 y	35:03	1.00	120	4148	2.5	0.460	-
Ay	1,2,3,4,6,7,9-HpCDD	2.81e+08	1.06 y	39:31	0.97	1430	22184	2.5	2.22	-
Ay	1,3,6,8-TCDF	5.41e+05	0.76 y	21:15	1.05	1.35	2056	2.5	0.100	-
Ay	2,3,4,8-TCDF	3.32e+05	0.66 y	26:13	1.05	0.827	2056	2.5	0.100	-
Ay	1,2,8,9-TCDF	*	* n	NotF*	1.05	*	2056	2.5	0.100	-
Ay	1,3,4,6,8-PeCDF	1.42e+07	1.69 y	28:28	1.05	35.3	1571	2.5	0.0766	-
Ay	1,2,3,8,9-PeCDF	1.51e+05	1.35 y	33:33	1.00	0.455	1887	2.5	0.131	-
Ay	1,2,3,4,6,8-HxCDF	9.95e+06	1.23 y	34:24	1.15	33.9	4313	2.5	0.211	-
Tot	Total Tetra-Dioxins	8.37e+06	0.80 y	23:25	1.08	31.5	998	2.5	0.0725	-
Tot	Total Penta-Dioxins	1.19e+07	1.63 y	30:16	1.00	59.4	1235	2.5	0.143	-
Tot	Total Hexa-Dioxins	6.82e+07	1.24 y	35:03	1.00	354	4148	2.5	0.460	-
Tot	Total Hepta-Dioxins	4.62e+08	1.06 y	39:31	0.97	2350	22184	2.5	2.22	-
Tot	Total Tetra-Furans	1.75e+07	0.76 y	21:15	1.05	43.6	2056	2.5	0.100	-
Tot	Total Penta-Furans	1.67e+07	1.60 y	30:03	1.00	50.4	1887	2.5	0.131	-
Tot	Total Hexa-Furans	9.40e+07	1.23 y	34:24	1.15	319	4313	2.5	0.211	-
Tot	Total Hepta-Furans	1.79e+08	1.05 y	39:12	1.35	673	6472	2.5	0.373	-
Tot	TCDD EMPC	8.74e+06	0.80 y	23:25	1.08	32.9	998	2.5	0.0725	-
Tot	PeCDD EMPC	1.21e+07	1.63 y	30:16	1.00	60.3	1235	2.5	0.143	-
Tot	HxCDD EMPC	6.82e+07	1.24 y	35:03	1.00	354	4148	2.5	0.460	-
Tot	HpCDD EMPC	4.62e+08	1.06 y	39:31	0.97	2350	22184	2.5	2.22	-
Tot	TCDF EMPC	1.84e+07	0.76 y	21:15	1.05	45.8	2056	2.5	0.100	-
Tot	PeCDF EMPC	1.68e+07	1.60 y	30:03	1.00	50.6	1887	2.5	0.131	-
Tot	HxCDF EMPC	9.40e+07	1.23 y	34:24	1.15	319	4313	2.5	0.211	-
Tot	HpCDF EMPC	1.79e+08	1.05 y	39:12	1.35	673	6472	2.5	0.373	-
AS	13C-1,3,6,8-TCDD	5.12e+07	0.82 y	23:24	1.09	169	2007	2.5	0.132	86.8
AS	13C-1,3,6,8-TCDF	8.16e+07	0.80 y	21:14	1.09	196	1853	2.5	0.0938	101
DPE	HxCDFE	*		NotF*	-	*	-		-	-
DPE	HpCDFE	*		NotF*	-	*	-		-	-
DPE	OCDFE	*		NotF*	-	*	-		-	-
DPE	NCDFE	*		NotF*	-	*	-		-	-
DPE	DCDFE	*		NotF*	-	*	-		-	-
LMC	Fn1 check mass	*		NotF*	-	*	-		-	-
LMC	Fn2 check mass	*		NotF*	-	*	-		-	-
LMC	Fn3 check mass	*		NotF*	-	*	-		-	-
LMC	Fn4 check mass	*		NotF*	-	*	-		-	-
LMC	Fn5 check mass	*		NotF*	-	*	-		-	-

no

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 13 Checkcode: 2589
 File Name: 090323P2 Sample #: 6 Sample text: P1158_6682_004 PO-BA-27B-SS-A-090226 10»

Acquired: 24-MAR-09 01:28:40 Processed: 24-MAR-09 08:54:34

Total Conc.: 32.866 Unnamed Conc.: 20.582 Homolog count: 17 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:25	1.306e+06	n	1.641e+06	n	0.80	y	2.948e+06	2.948e+06	3.09e+02	y	11.1	1,3,6,8-TCDD
23:49	8.118e+05	n	1.008e+06	n	0.81	y	1.819e+06	1.819e+06	1.97e+02	y	6.84	
24:16	1.029e+05	n	1.202e+05	n	0.86	y	2.231e+05	2.231e+05	2.21e+01	y	0.839	
25:06	9.859e+04	n	1.250e+05	n	0.79	y	2.235e+05	2.235e+05	2.81e+01	y	0.841	
25:21	2.221e+05	n	2.713e+05	n	0.82	y	4.933e+05	4.933e+05	5.20e+01	y	1.86	
25:33	2.142e+05	n	3.043e+05	n	0.70	y	5.185e+05	5.185e+05	6.60e+01	y	1.95	
25:44	1.150e+05	n	1.219e+05	n	0.94	n	2.368e+05	2.157e+05	2.46e+01	y	0.811	
26:01	3.834e+04	n	4.244e+04	n	0.90	n	8.077e+04	7.511e+04	1.26e+01	y	0.283	
26:12	8.610e+04	n	9.831e+04	n	0.88	y	1.844e+05	1.844e+05	2.39e+01	y	0.694	
26:36	2.109e+05	n	2.631e+05	n	0.80	y	4.740e+05	4.740e+05	5.62e+01	y	1.78	
26:44	2.540e+04	n	2.425e+04	n	1.05	n	4.965e+04	4.292e+04	7.56e+00	y	0.161	
26:59	4.644e+05	n	5.593e+05	n	0.83	y	1.024e+06	1.024e+06	1.20e+02	y	3.85	
27:08	2.509e+04	n	3.004e+04	n	0.84	y	5.512e+04	5.512e+04	9.90e+00	y	0.207	1,2,3,9-TCDD
27:16	9.330e+04	n	1.150e+05	n	0.81	y	2.083e+05	2.083e+05	2.79e+01	y	0.784	2,3,7,8-TCDD
27:37	6.047e+04	n	8.079e+04	n	0.75	y	1.413e+05	1.413e+05	2.24e+01	y	0.531	
27:46	1.879e+04	n	2.050e+04	n	0.92	n	3.929e+04	3.628e+04	5.01e+00	y	0.136	
28:18	2.219e+04	n	3.229e+04	n	0.69	y	5.448e+04	5.448e+04	7.73e+00	y	0.205	1,2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 13 Checkcode: 2589
 File Name: 090323P2 Sample #: 6 Sample text: P1158_6682_004 PO-BA-27B-SS-A-090226 10»

Acquired: 24-MAR-09 01:28:40 Processed: 24-MAR-09 08:54:34

Total Conc.: 60.340 Unnamed Conc.: 36.798 Homolog count: 10 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:16	2.263e+06	n	1.385e+06	n	1.63	y	3.647e+06	3.647e+06	2.17e+02	y	18.2	1,2,4,7,9-PeCDD
30:48	7.099e+05	n	4.300e+05	n	1.65	y	1.140e+06	1.140e+06	9.96e+01	y	5.69	
31:22	1.159e+06	n	7.352e+05	n	1.58	y	1.894e+06	1.894e+06	1.83e+02	y	9.46	
31:33	6.142e+05	y	3.831e+05	y	1.60	y	9.973e+05	9.973e+05	9.32e+01	y	4.98	
31:40	9.116e+05	y	5.496e+05	y	1.66	y	1.461e+06	1.461e+06	1.26e+02	y	7.30	
31:56	6.455e+05	n	3.996e+05	n	1.62	y	1.045e+06	1.045e+06	6.68e+01	y	5.22	
32:19	4.015e+05	y	2.368e+05	y	1.70	y	6.383e+05	6.383e+05	5.78e+01	y	3.19	
32:49	5.028e+05	y	3.290e+05	y	1.53	y	8.318e+05	8.318e+05	8.00e+01	y	4.16	1,2,3,7,8-PeCDD
32:55	1.459e+05	y	7.453e+04	y	1.96	n	2.204e+05	1.901e+05	1.89e+01	y	0.949	
33:16	1.371e+05	n	9.645e+04	n	1.42	y	2.336e+05	2.336e+05	2.51e+01	y	1.17	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 13 Checkcode: 2589
 File Name: 090323P2 Sample #: 6 Sample text: P1158_6682_004 PO-BA-27B-SS-A-090226 10»

Acquired: 24-MAR-09 01:28:40 Processed: 24-MAR-09 08:54:34

Total Conc.: 354.48 Unnamed Conc.: 166.708 Homolog count: 8 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:03	1.287e+07	n		1.042e+07	n		1.24 y	2.329e+07	2.329e+07	7.33e+02	y	120 1,2,4,6,7,9-HxCDD
35:43	2.950e+06	n		2.366e+06	n		1.25 y	5.316e+06	5.316e+06	1.68e+02	y	27.5
36:01	1.318e+07	n		1.061e+07	n		1.24 y	2.378e+07	2.378e+07	5.77e+02	y	123
36:09	1.221e+06	n		9.615e+05	n		1.27 y	2.183e+06	2.183e+06	5.97e+01	y	11.3
36:45	8.568e+05	n		7.124e+05	n		1.20 y	1.569e+06	1.569e+06	5.02e+01	y	7.97 1,2,3,4,7,8-HxCDD
36:52	4.331e+06	n		3.591e+06	n		1.21 y	7.922e+06	7.922e+06	2.33e+02	y	43.0 1,2,3,6,7,8-HxCDD
37:04	4.904e+05	n		4.457e+05	n		1.10 y	9.361e+05	9.361e+05	2.55e+01	y	4.84
37:11	1.795e+06	n		1.453e+06	n		1.24 y	3.248e+06	3.248e+06	9.25e+01	y	16.3 1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDD EMPC Function: 4 Run #: 13 Checkcode: 2589
 File Name: 090323P2 Sample #: 6 Sample text: P1158_6682_004 PO-BA-27B-SS-A-090226 10*

Acquired: 24-MAR-09 01:28:40 Processed: 24-MAR-09 08:54:34

Total Conc.: 2351.7 Unnamed Conc.: * Homolog count: 2 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:31	1.446e+08	n		1.364e+08	n		1.06 y	2.810e+08	2.810e+08	1.69e+03	y	1430 1,2,3,4,6,7,9-HpCDD
40:23	9.387e+07	n		8.725e+07	n		1.08 y	1.811e+08	1.811e+08	1.00e+03	y	922 1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: TCDF EMPC Function: 1 Run #: 13 Checkcode: 2589
 File Name: 090323P2 Sample #: 6 Sample text: P1158_6682_004 PO-BA-27B-SS-A-090226 10*

Acquired: 24-MAR-09 01:28:40 Processed: 24-MAR-09 08:54:34

Total Conc.: 45.827 Unnamed Conc.: 35.651 Homolog count: 21 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
21:15	2.337e+05	n		3.071e+05	n		0.76 y	5.409e+05	5.409e+05	3.17e+01	y	1.35 1,3,6,8-TCDF
21:48	3.199e+05	n		4.065e+05	n		0.79 y	7.263e+05	7.263e+05	3.57e+01	y	1.81
22:25	8.353e+05	n		1.048e+06	n		0.80 y	1.883e+06	1.883e+06	9.02e+01	y	4.69 2,4,6,8-TCDF
22:59	8.745e+05	y		1.135e+06	n		0.77 y	2.010e+06	2.010e+06	6.89e+01	y	5.01
23:23	9.009e+05	y		1.231e+06	n		0.73 y	2.132e+06	2.132e+06	9.02e+01	y	5.31
23:50	5.647e+05	y		6.868e+05	y		0.82 y	1.251e+06	1.251e+06	7.67e+01	y	3.12
23:59	1.785e+05	y		2.337e+05	y		0.76 y	4.122e+05	4.122e+05	2.42e+01	y	1.03
24:09	3.130e+05	y		4.268e+05	y		0.73 y	7.398e+05	7.398e+05	4.50e+01	y	1.84
24:32	1.518e+05	y		1.869e+05	y		0.81 y	3.387e+05	3.387e+05	2.07e+01	y	0.844
24:41	2.649e+05	y		3.550e+05	n		0.75 y	6.199e+05	6.199e+05	4.06e+01	y	1.54
24:50	6.294e+05	y		7.267e+05	y		0.87 y	1.356e+06	1.356e+06	7.96e+01	y	3.38
24:58	3.619e+05	y		5.761e+05	y		0.63 n	9.380e+05	8.319e+05	4.66e+01	y	2.07
25:26	5.480e+05	y		7.014e+05	n		0.78 y	1.249e+06	1.249e+06	6.82e+01	y	3.11
25:42	1.939e+05	y		2.408e+05	n		0.81 y	4.347e+05	4.347e+05	2.73e+01	y	1.08
25:55	1.386e+05	y		1.785e+05	n		0.78 y	3.172e+05	3.172e+05	1.87e+01	y	0.790
26:07	1.581e+05	y		2.159e+05	y		0.73 y	3.740e+05	3.740e+05	2.29e+01	y	0.932
26:13	1.317e+05	y		2.004e+05	y		0.66 y	3.321e+05	3.321e+05	2.13e+01	y	0.827 2,3,4,8-TCDF
26:21	5.890e+05	y		7.398e+05	y		0.80 y	1.329e+06	1.329e+06	8.90e+01	y	3.31 2,3,7,8-TCDF
26:44	5.832e+05	n		7.403e+05	n		0.79 y	1.324e+06	1.324e+06	7.38e+01	y	3.30
26:59	6.472e+04	y		8.326e+04	n		0.78 y	1.480e+05	1.480e+05	9.12e+00	y	0.369
27:16	2.419e+04	n		2.695e+04	n		0.90 n	5.114e+04	4.770e+04	3.34e+00	y	0.119
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: PeCDF EMPC Function: 2 Run #: 13 Checkcode: 2589
 File Name: 090323P2 Sample #: 6 Sample text: P1158_6682_004 PO-BA-27B-SS-A-090226 10»

Acquired: 24-MAR-09 01:28:40 Processed: 24-MAR-09 08:54:34

Total Conc.: 50.575 Unnamed Conc.: 39.268 Homolog count: 12 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
30:03	7.661e+05	n	4.801e+05	n	1.60	y	1.246e+06	1.246e+06	6.65e+01	y	3.76
30:13	4.041e+06	n	2.635e+06	n	1.53	y	6.676e+06	6.676e+06	2.94e+02	y	20.1
30:38	1.582e+05	n	1.087e+05	n	1.46	y	2.668e+05	2.668e+05	1.47e+01	y	0.805
30:53	1.407e+06	n	9.135e+05	n	1.54	y	2.320e+06	2.320e+06	9.07e+01	y	7.00
31:07	3.554e+05	n	2.388e+05	n	1.49	y	5.941e+05	5.941e+05	3.57e+01	y	1.79
31:20	7.155e+05	n	4.350e+05	n	1.64	y	1.151e+06	1.151e+06	6.40e+01	y	3.55 1,2,3,7,8-PeCDF
31:38	7.915e+05	n	5.036e+05	n	1.57	y	1.295e+06	1.295e+06	6.50e+01	y	3.91
31:46	3.885e+04	n	2.142e+04	n	1.81	n	6.027e+04	5.461e+04	4.74e+00	y	0.165
32:12	5.386e+04	n	3.567e+04	n	1.51	y	8.953e+04	8.953e+04	5.90e+00	y	0.270
32:20	2.974e+05	n	1.773e+05	n	1.68	y	4.747e+05	4.747e+05	2.76e+01	y	1.43
32:29	1.539e+06	n	9.360e+05	n	1.64	y	2.475e+06	2.475e+06	9.12e+01	y	7.30 2,3,4,7,8-PeCDF
33:33	8.663e+04	n	6.405e+04	n	1.35	y	1.507e+05	1.507e+05	1.14e+01	y	0.455 1,2,3,8,9-PeCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HxCDF EMPC Function: 3 Run #: 13 Checkcode: 2589
 File Name: 090323P2 Sample #: 6 Sample text: P1158_6682_004 PO-BA-27B-SS-A-090226 10»

Acquired: 24-MAR-09 01:28:40 Processed: 24-MAR-09 08:54:34

Total Conc.: 319.43 Unnamed Conc.: 247.937 Homolog count: 11 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
34:24	5.496e+06	n	4.452e+06	n	1.23	y	9.948e+06	9.948e+06	2.97e+02	y	33.9 1,2,3,4,6,8-HxCDF
34:36	1.633e+07	n	1.313e+07	n	1.24	y	2.946e+07	2.946e+07	9.13e+02	y	100
34:49	1.450e+05	n	1.281e+05	n	1.13	y	2.731e+05	2.731e+05	6.49e+00	y	0.930
35:01	6.487e+05	n	5.275e+05	n	1.23	y	1.176e+06	1.176e+06	3.31e+01	y	4.00
35:14	2.262e+07	n	1.804e+07	n	1.25	y	4.067e+07	4.067e+07	1.24e+03	y	138
35:40	4.000e+05	n	3.592e+05	n	1.11	y	7.592e+05	7.592e+05	2.39e+01	y	2.59
35:47	2.638e+06	n	2.146e+06	n	1.23	y	4.785e+06	4.785e+06	1.49e+02	y	16.1 1,2,3,4,7,8-HxCDF
35:56	1.222e+06	n	1.009e+06	n	1.21	y	2.231e+06	2.231e+06	6.27e+01	y	7.12 1,2,3,6,7,8-HxCDF
36:14	2.604e+05	n	2.188e+05	n	1.19	y	4.792e+05	4.792e+05	1.39e+01	y	1.63
36:34	1.760e+06	n	1.424e+06	n	1.24	y	3.184e+06	3.184e+06	9.19e+01	y	10.5 2,3,4,6,7,8-HxCDF
37:36	5.941e+05	n	4.239e+05	n	1.40	y	1.018e+06	1.018e+06	2.43e+01	y	3.91 1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HpCDF EMPC Function: 4 Run #: 13 Checkcode: 2589
 File Name: 090323P2 Sample #: 6 Sample text: P1158_6682_004 PO-BA-27B-SS-A-090226 10»

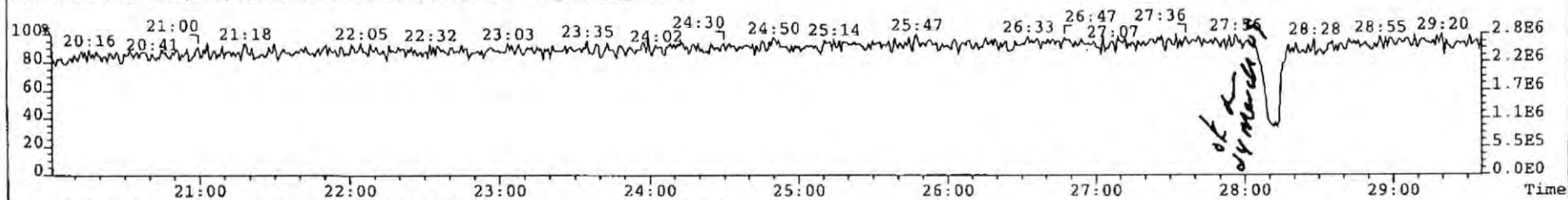
Acquired: 24-MAR-09 01:28:40 Processed: 24-MAR-09 08:54:34

Total Conc.: 673.36 Unnamed Conc.: 417.422 Homolog count: 4 ✓

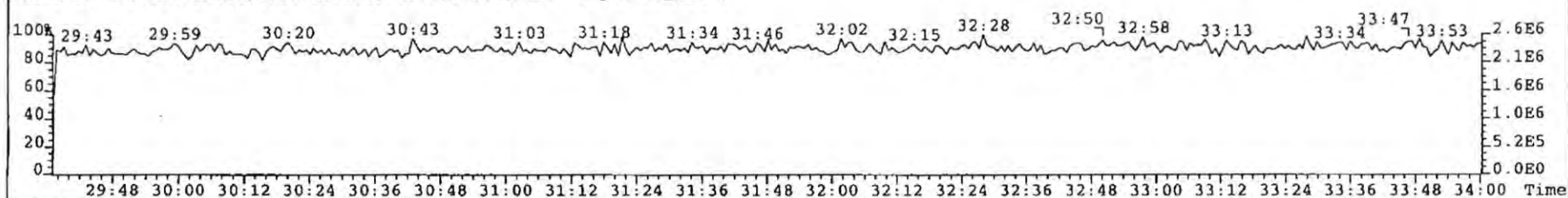
RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:12	3.516e+07	n	3.361e+07	n	1.05	y	6.877e+07	6.877e+07	1.41e+03	y	247 1,2,3,4,6,7,8-HpCDF
39:31	8.918e+05	n	8.451e+05	n	1.06	y	1.737e+06	1.737e+06	3.63e+01	y	6.68
39:41	5.489e+07	n	5.190e+07	n	1.06	y	1.068e+08	1.068e+08	2.19e+03	y	411

40:57 1.052e+06 n 1.038e+06 n 1.01 y 2.090e+06 2.090e+06 3.88e+01 y 8.66 1,2,3,4,7,8,9-HpCDF

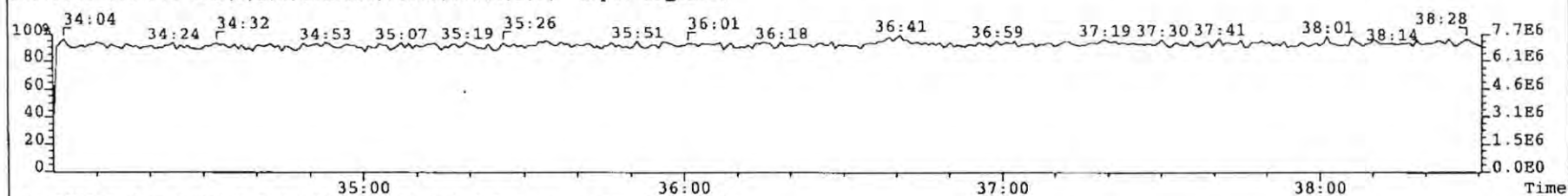
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO: BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



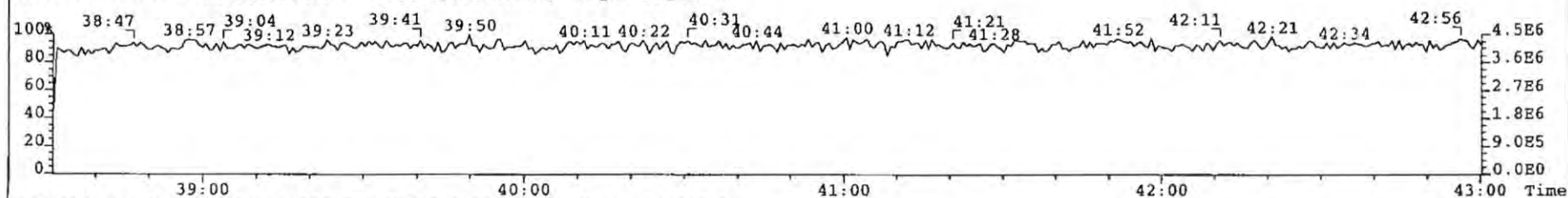
366.9792 S:6 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



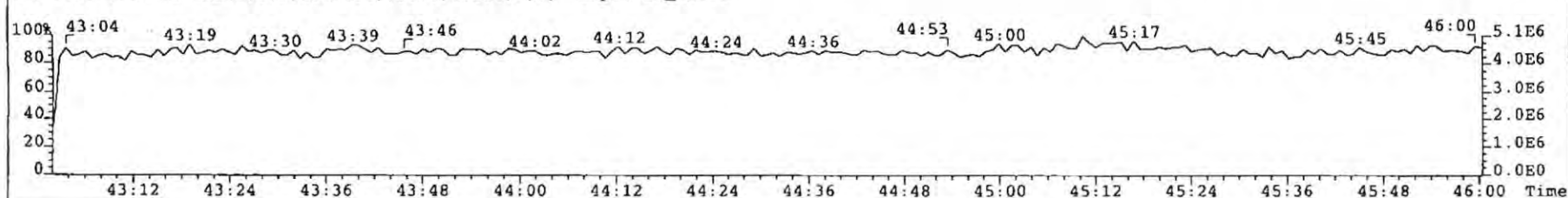
380.9760 S:6 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



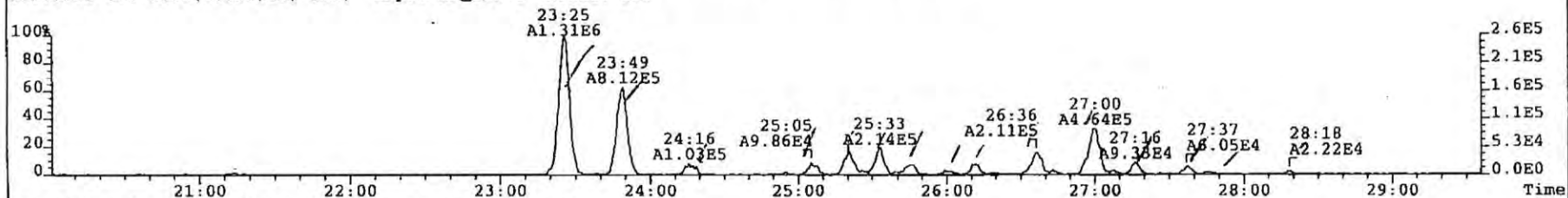
430.9728 S:6 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



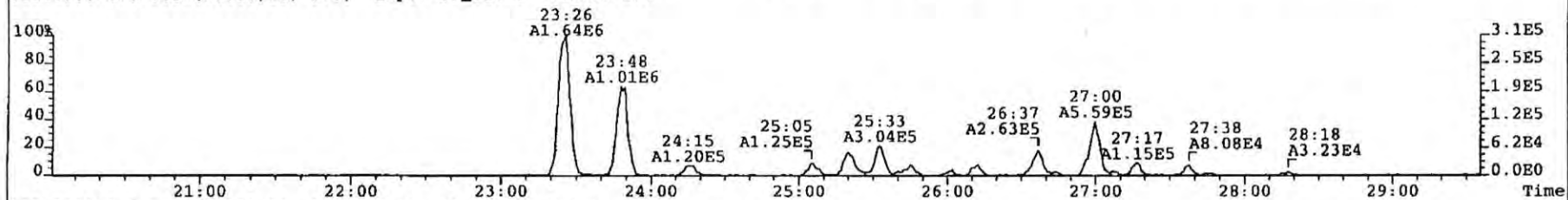
454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



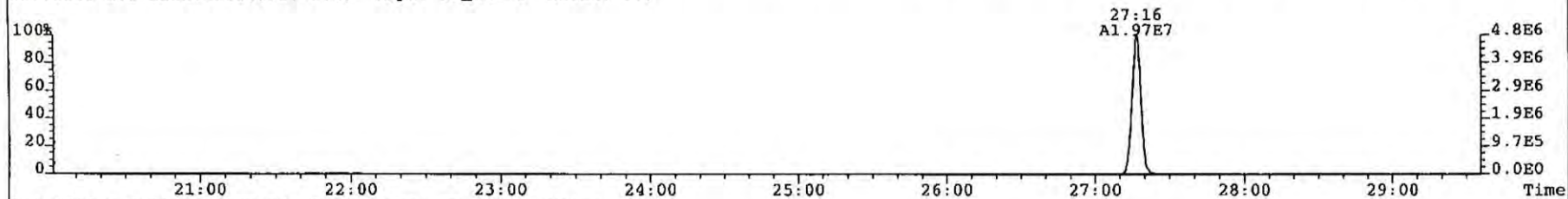
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
319.8965 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 239



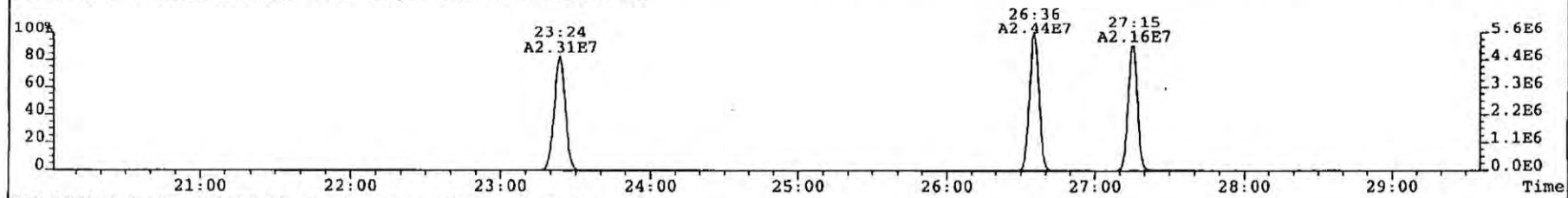
321.8936 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 274



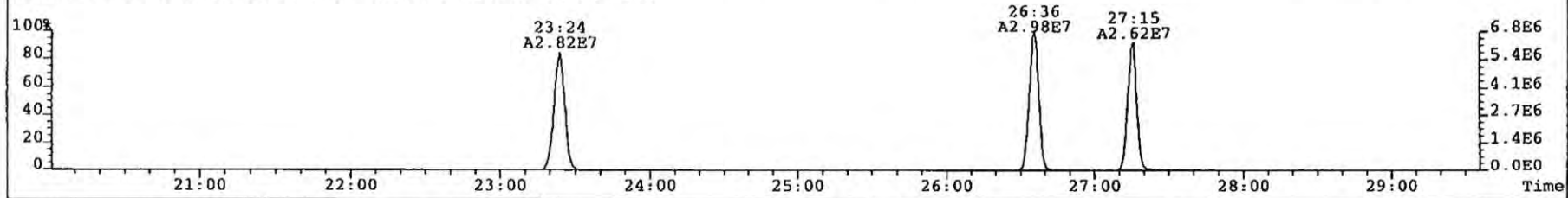
327.8850 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 173



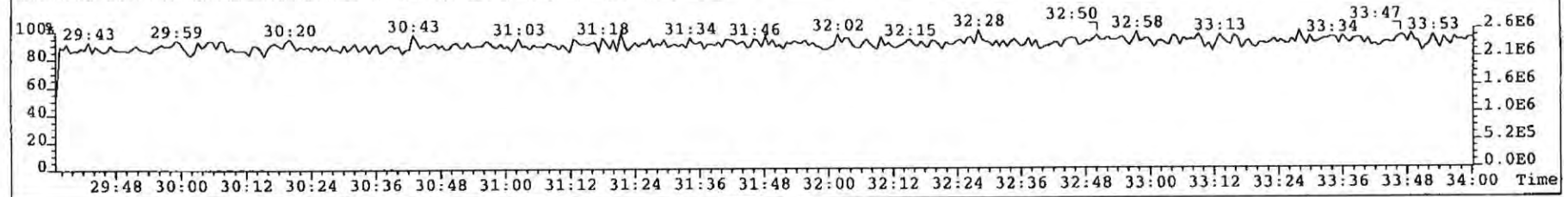
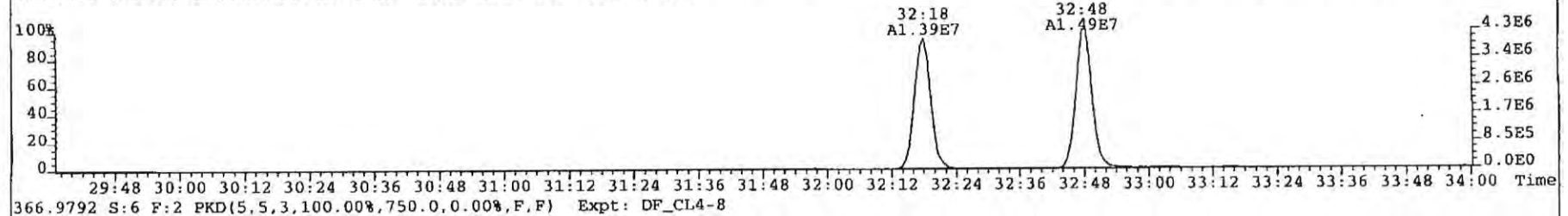
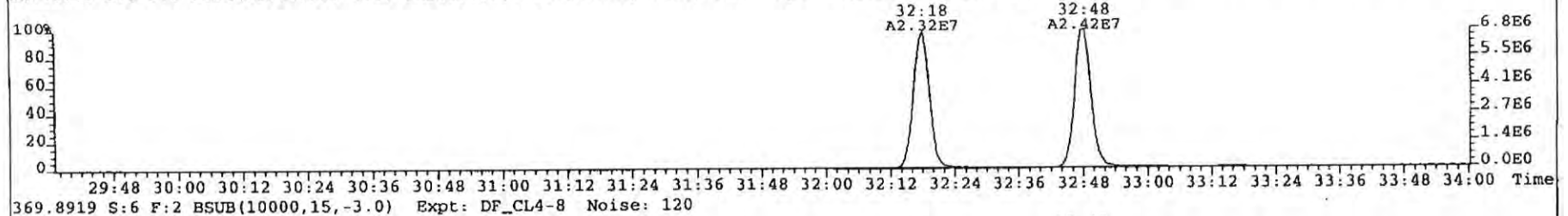
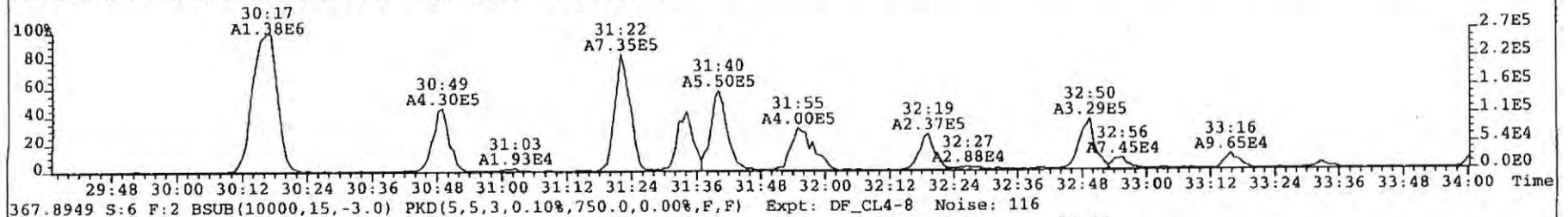
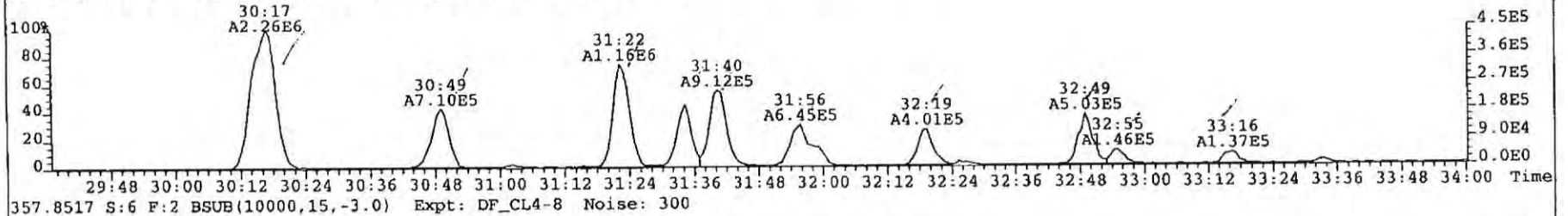
331.9368 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 180



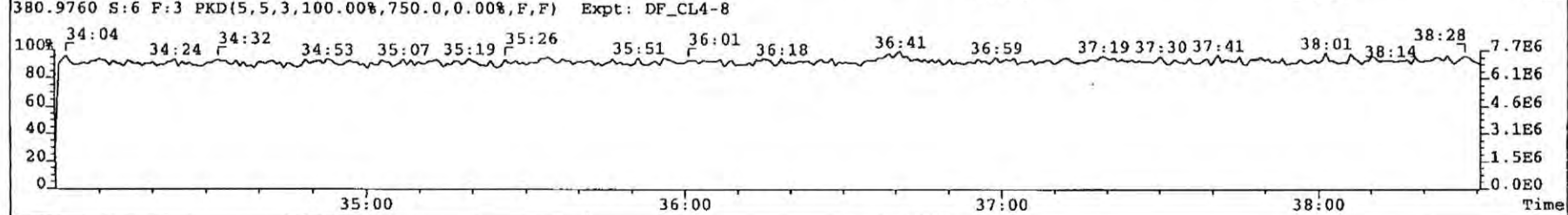
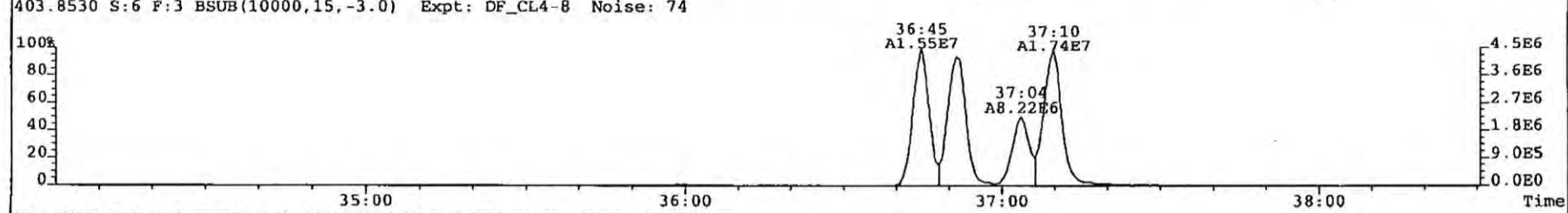
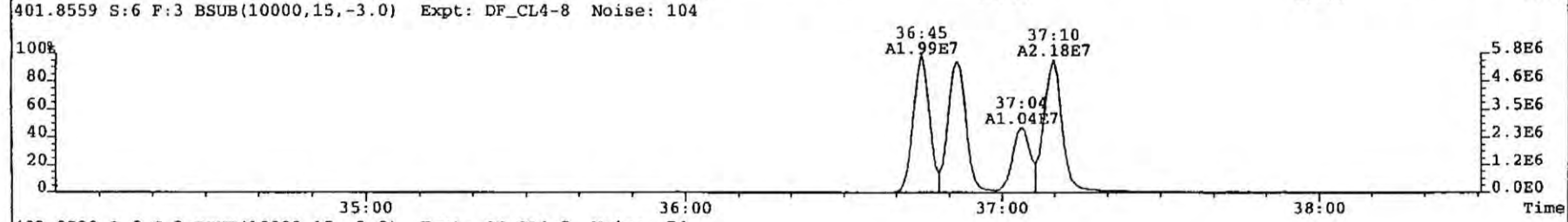
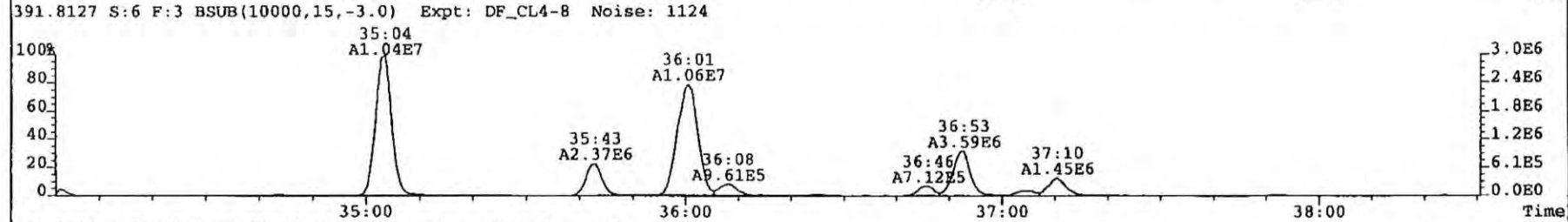
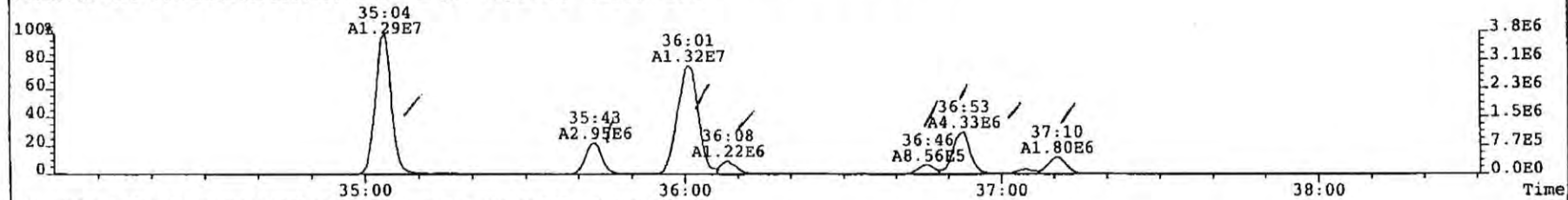
333.9339 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 181



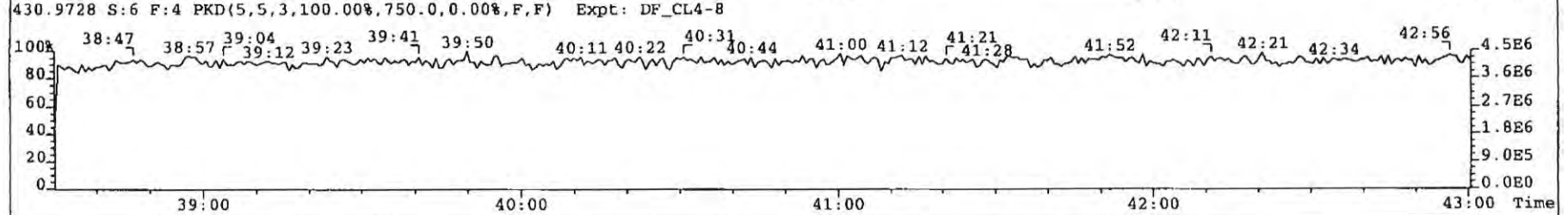
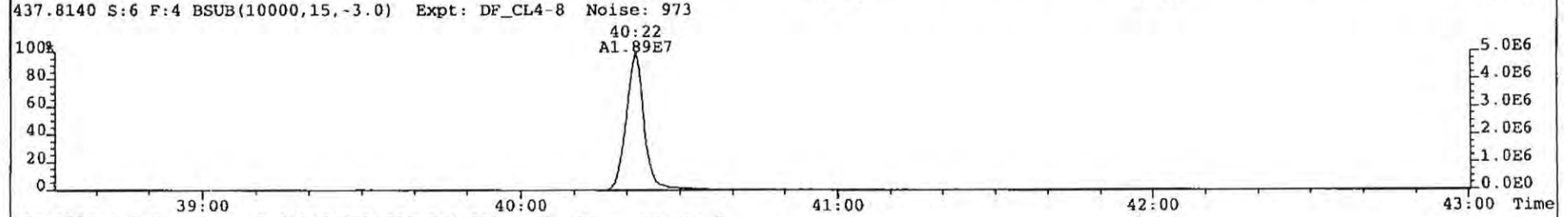
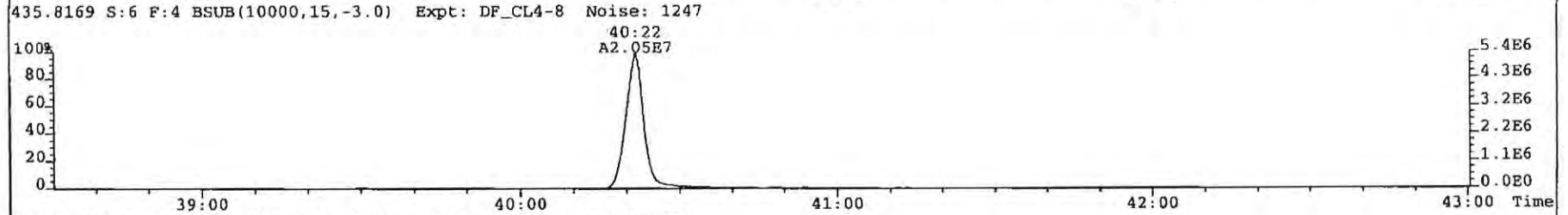
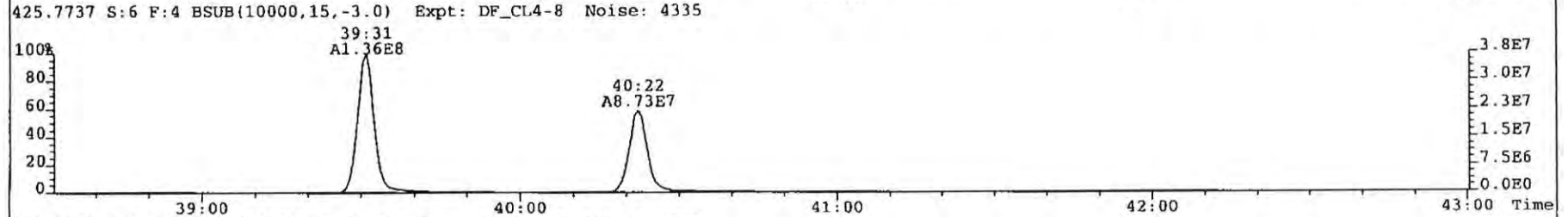
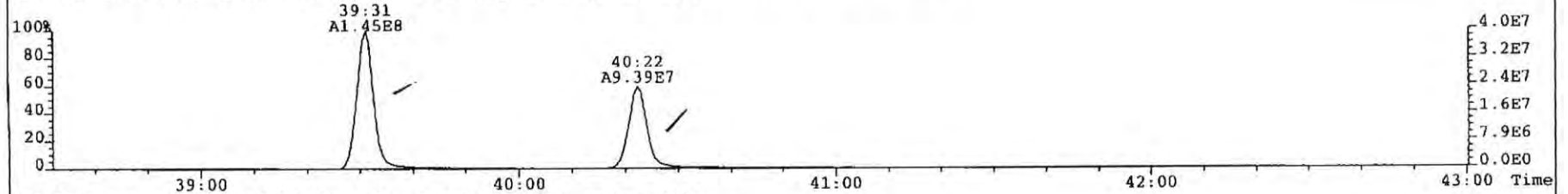
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
355.8546 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 571



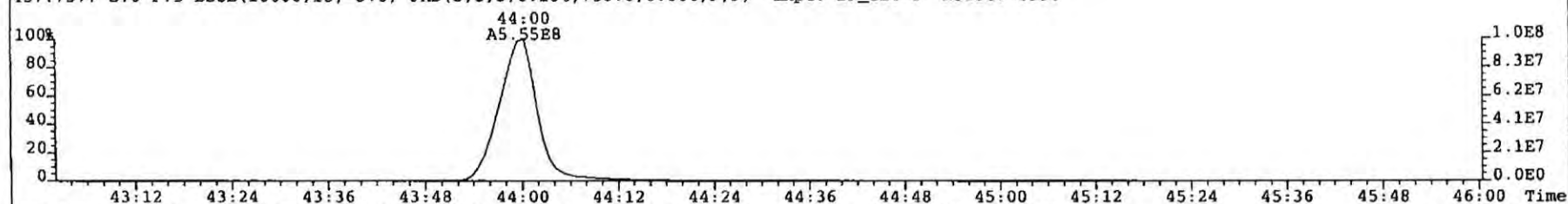
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1308



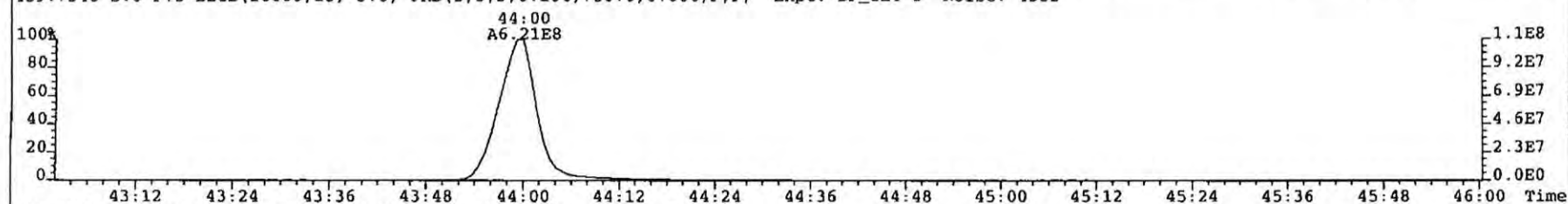
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
423.7767 S:6 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 5617



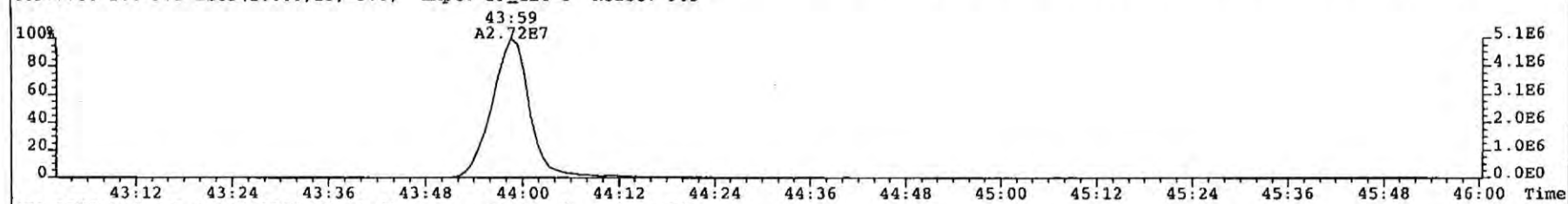
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2552



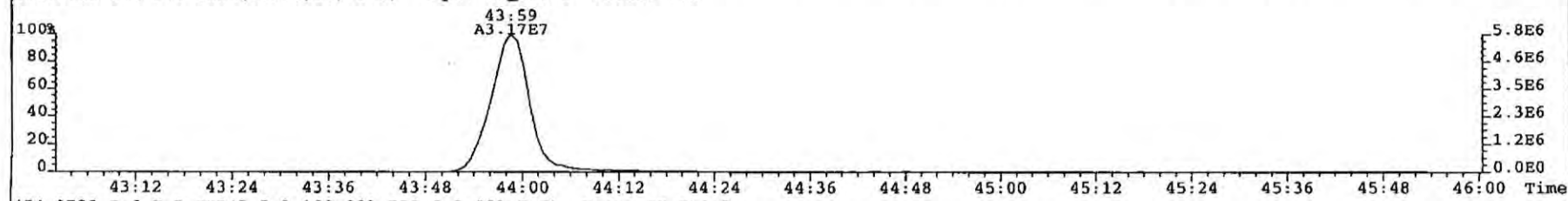
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 4352



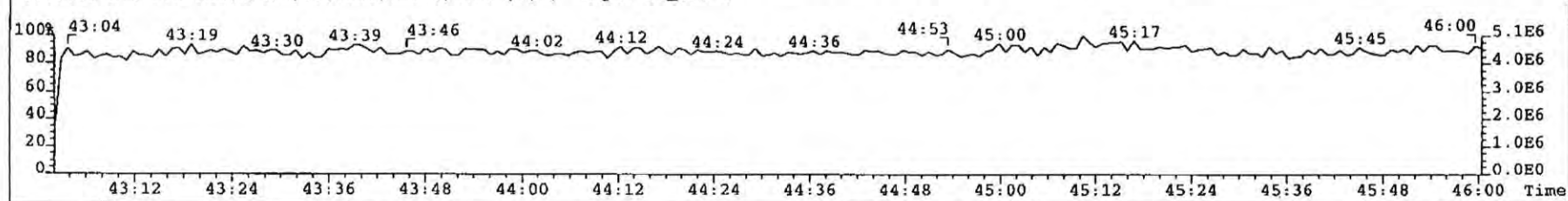
469.7780 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 905



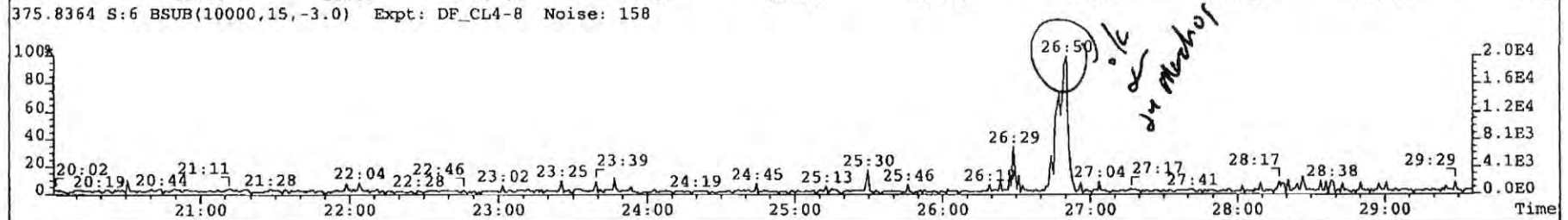
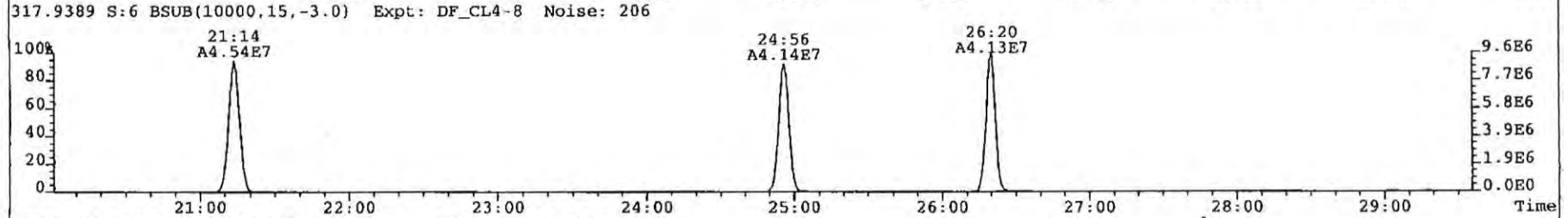
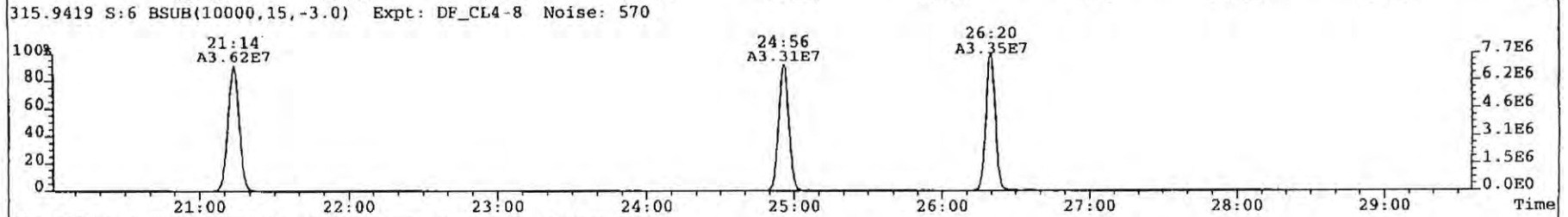
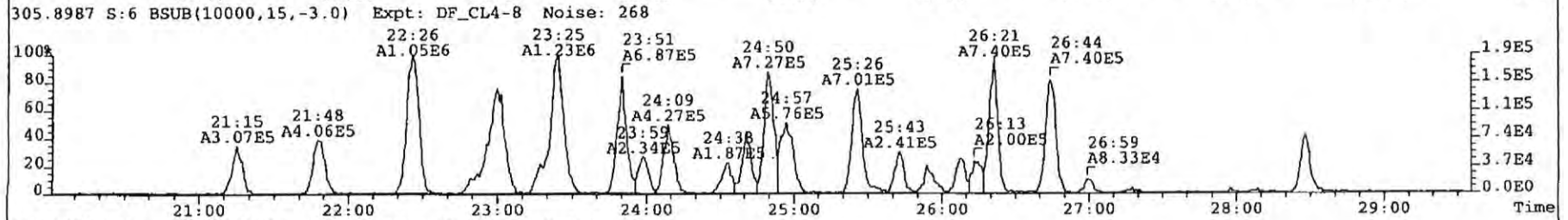
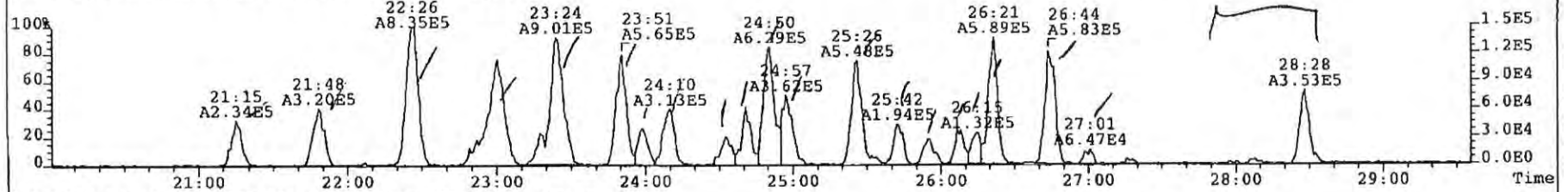
471.7750 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 701



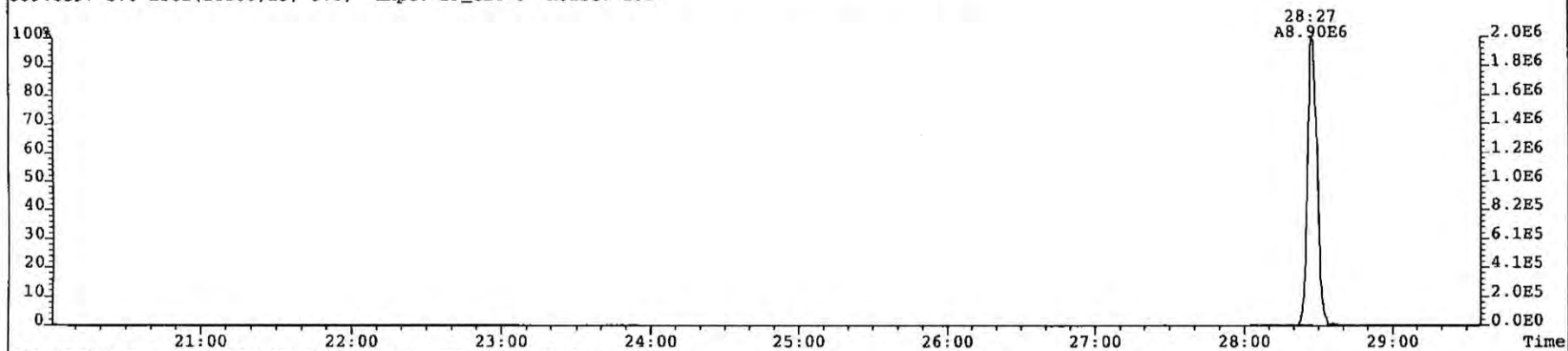
454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



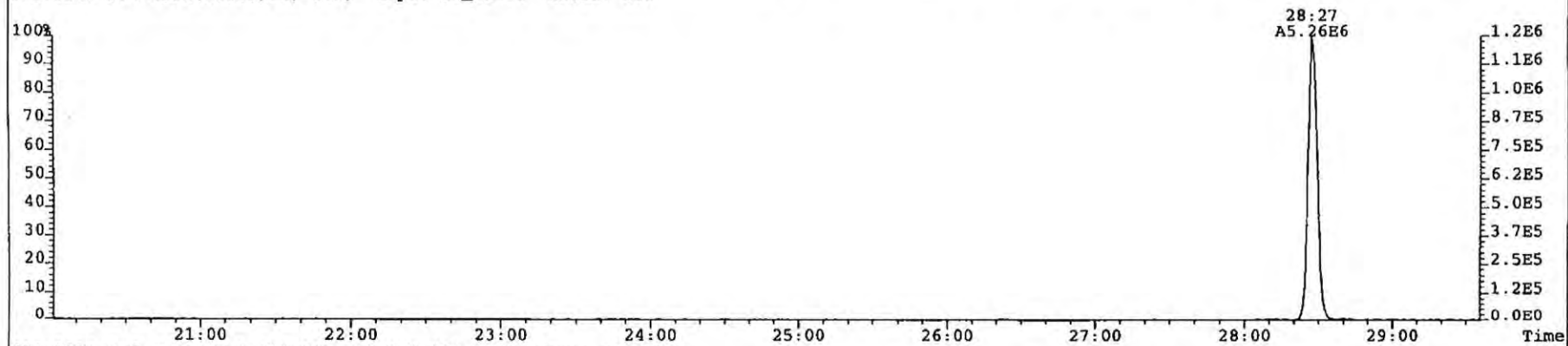
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
303.9016 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 309



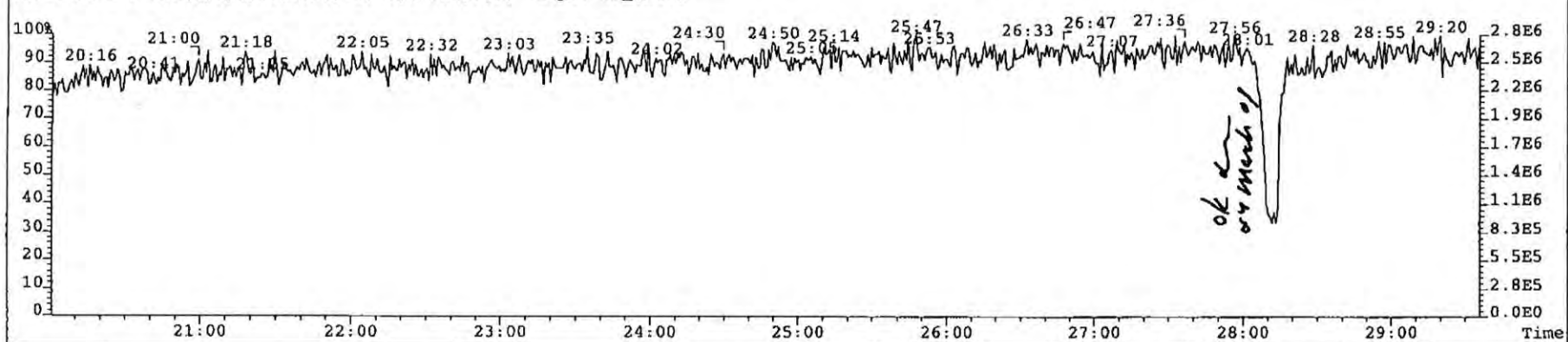
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
339.8597 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 166



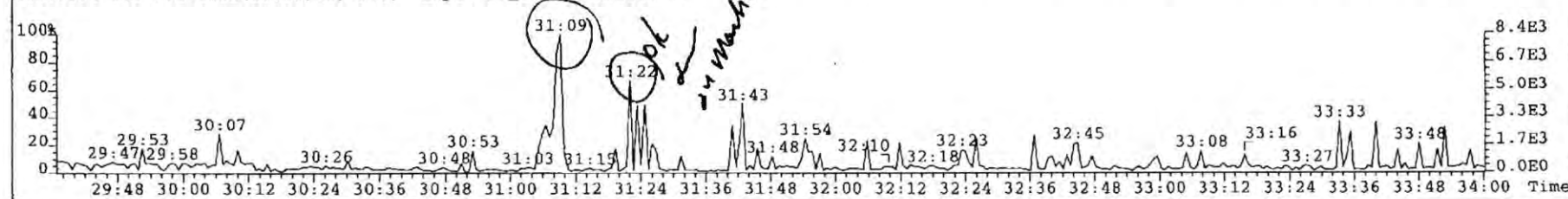
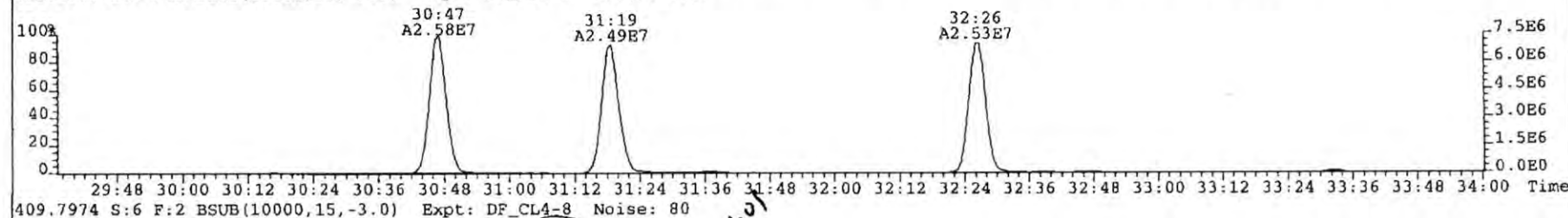
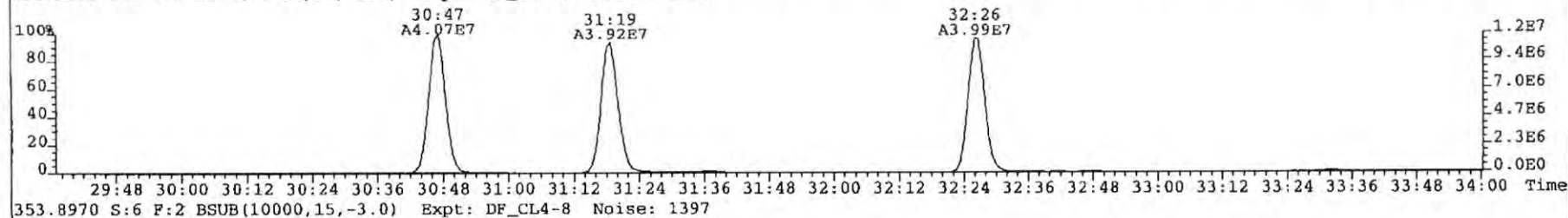
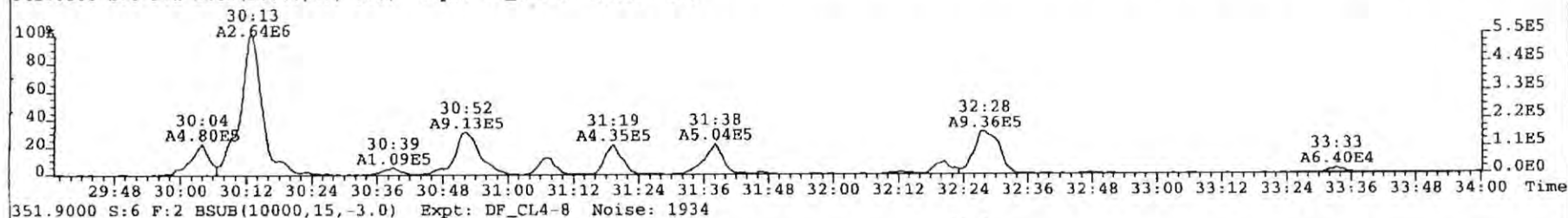
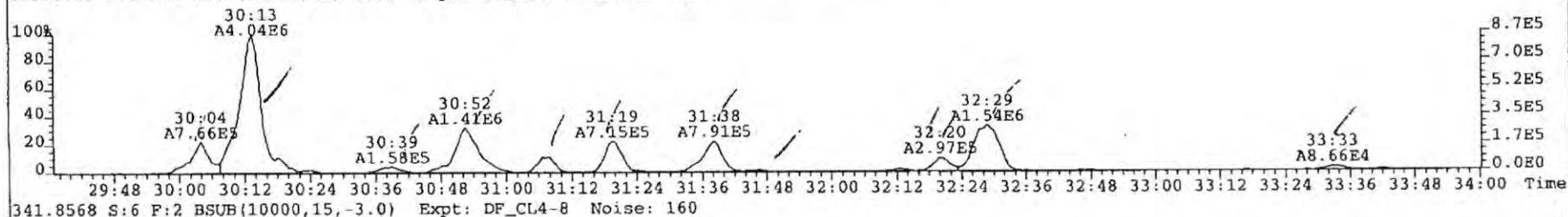
341.8568 S:6 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 180



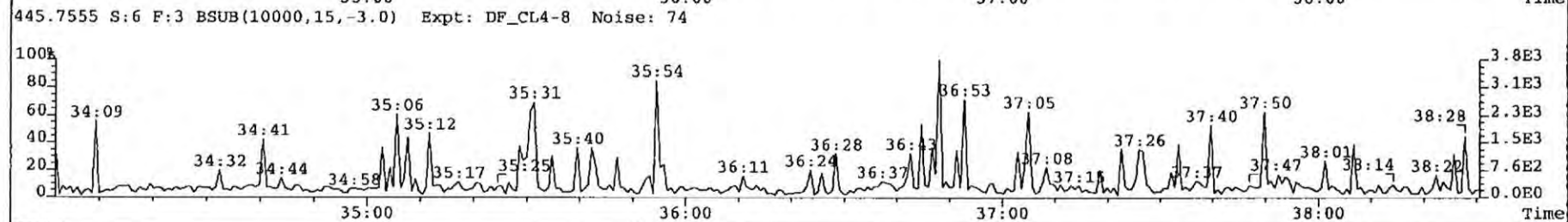
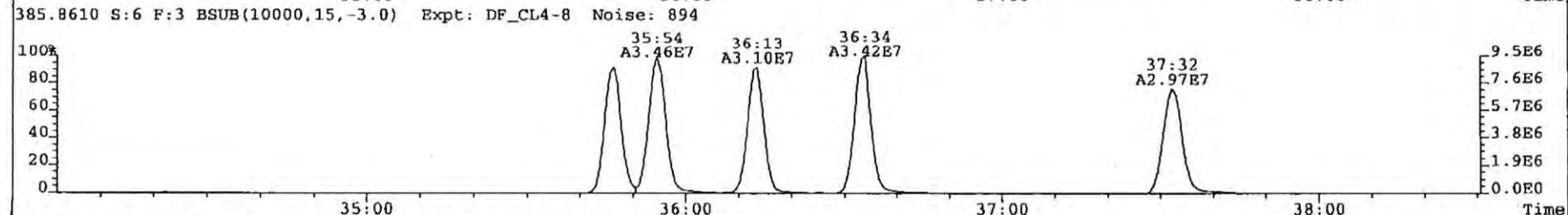
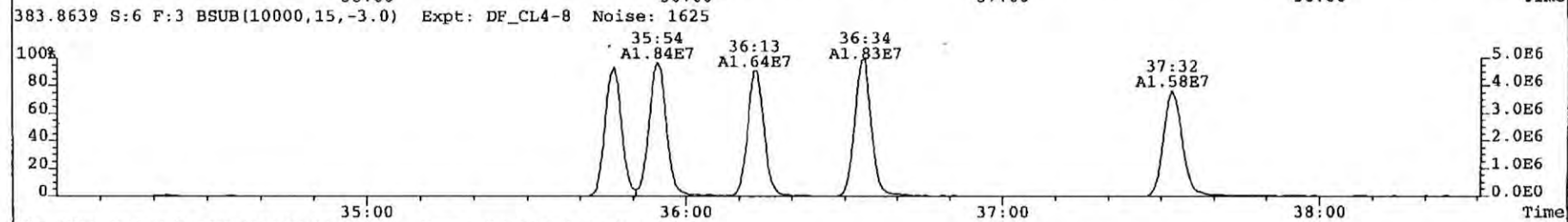
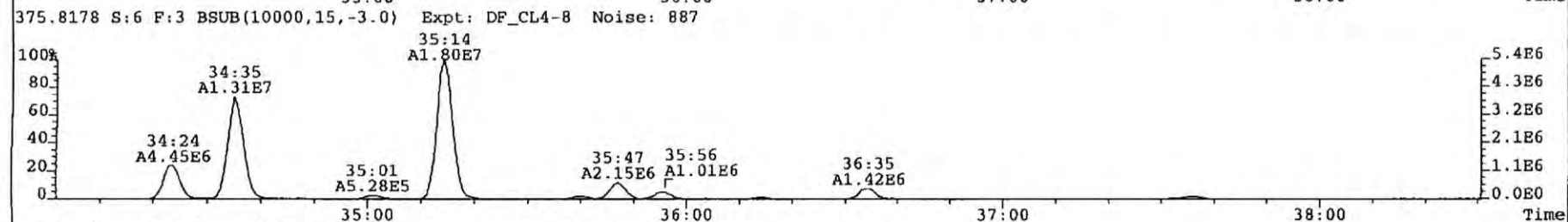
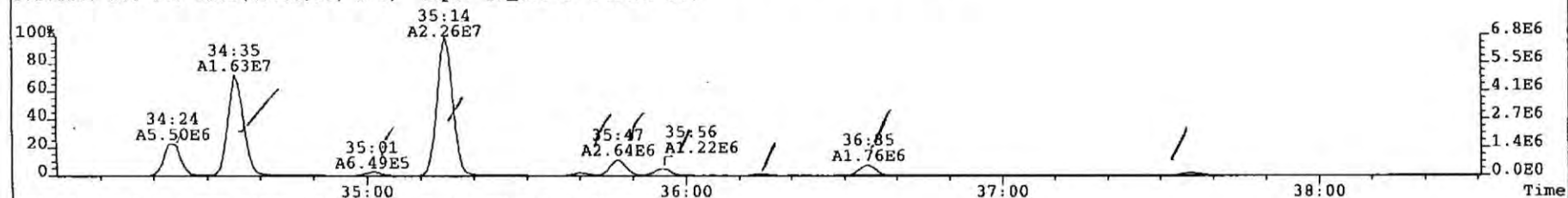
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



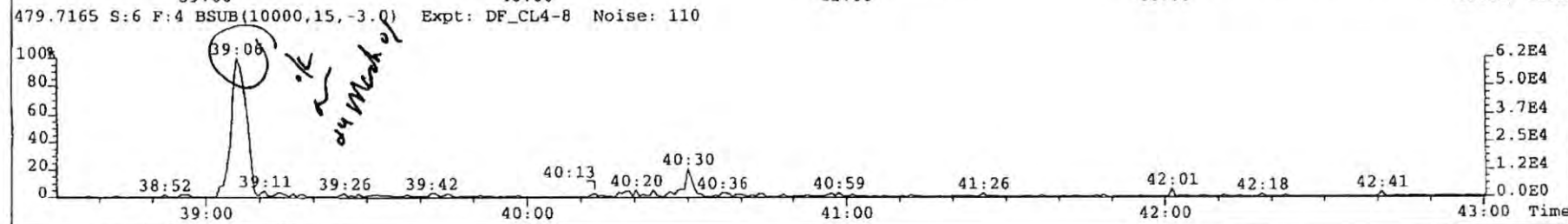
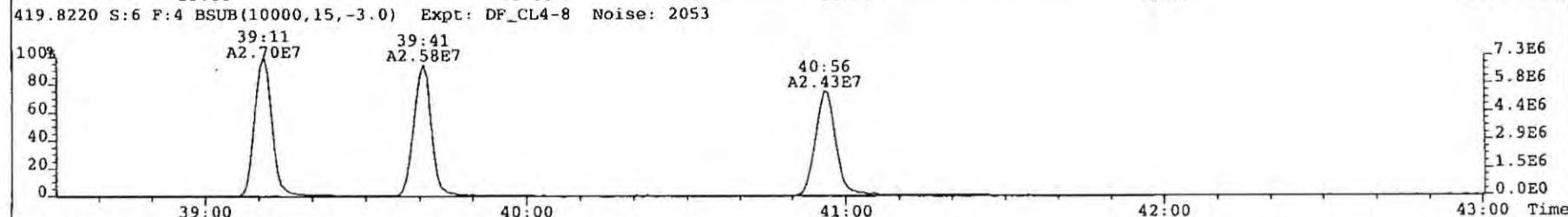
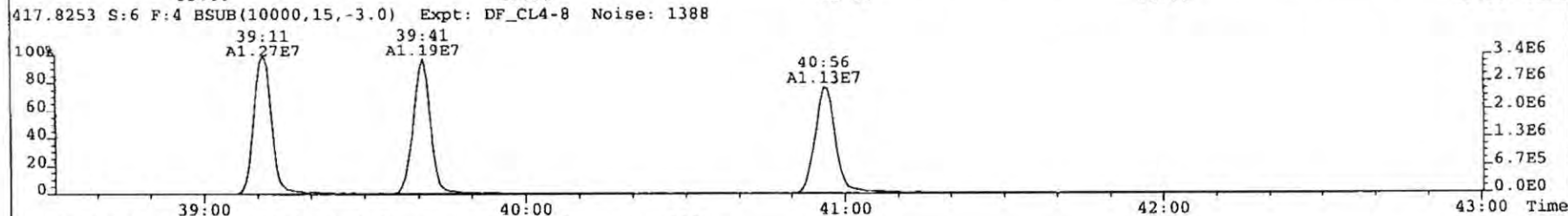
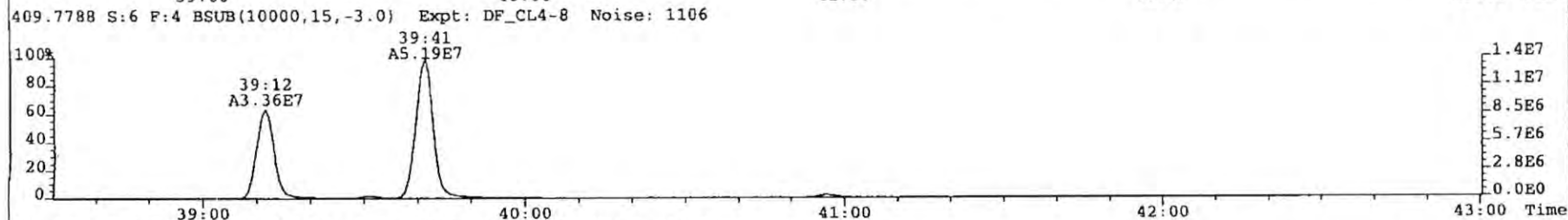
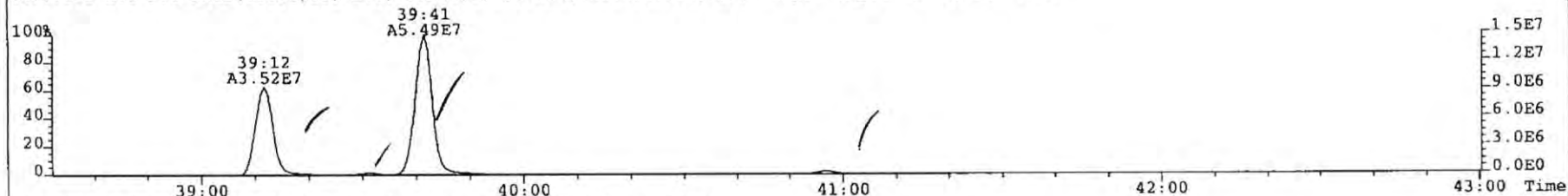
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 408



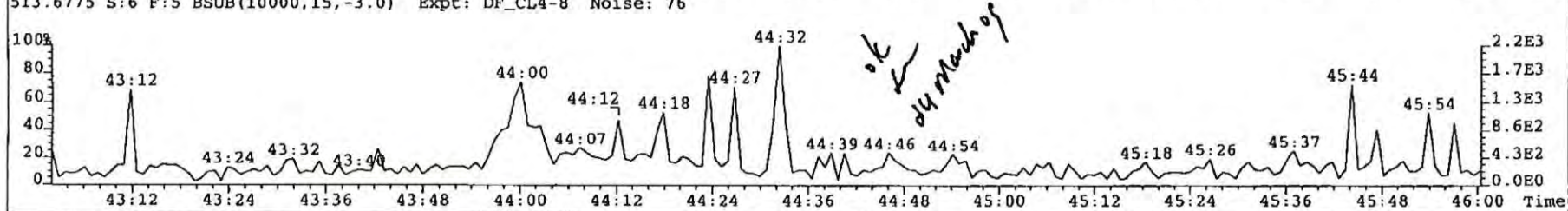
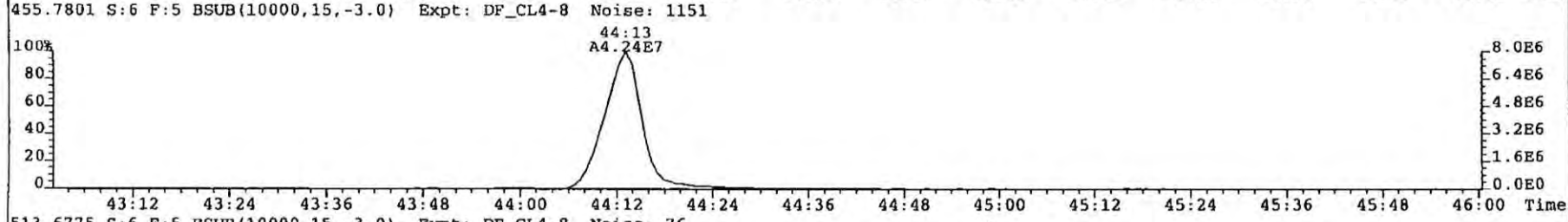
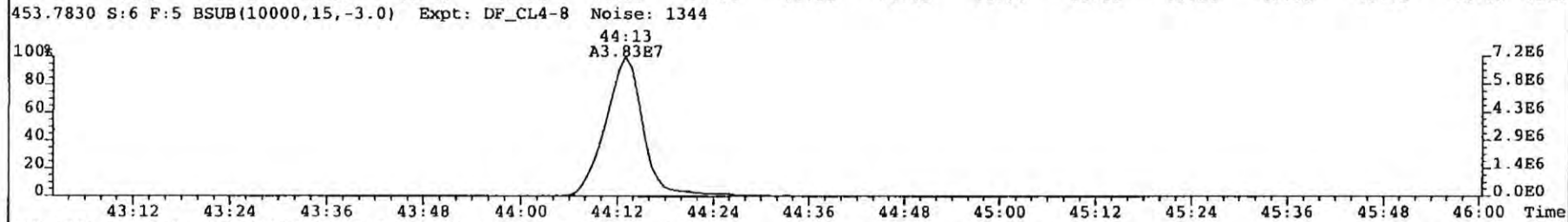
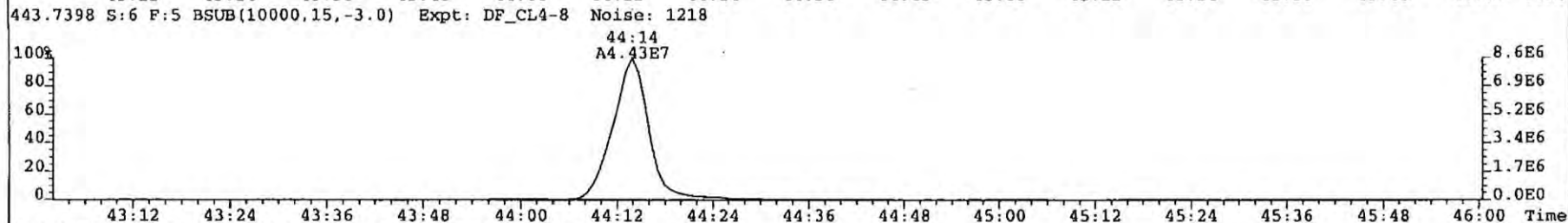
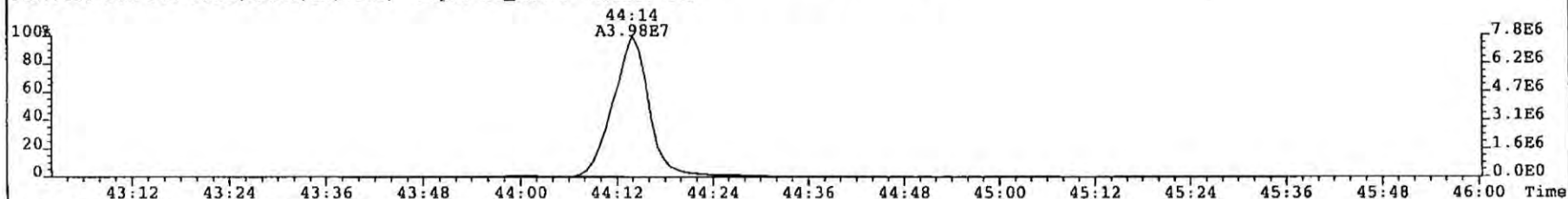
File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 804



File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1014



File: 090323P2 Acq: 24-MAR-2009 01:28:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: P1158_6682_004 PO-BA-27B-SS-A-090226 10.26g Vial# 34 File Text: AP DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 475



1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-BA-27B-SS-A-090226 Filename: 090311P2 S: 8 Vial: 96 Acq: 11-MAR-09 22:20:58
 Lab ID: P1158_6630_004 GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08Wt/Vol: 10.16
 Sample text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	1.31e+05	0.74 y	26:57	1.08	1.04	940	2.5	0.143	-
Ax	1,2,3,7,8-PeCDD	3.80e+05	1.50 y	32:34	1.00	4.09	992	2.5	0.246	-
Ax	1,2,3,4,7,8-HxCDD	6.27e+05	1.25 y	36:33	1.08	7.14	6116	2.5	1.34	-
Ax	1,2,3,6,7,8-HxCDD	3.30e+06	1.31 y	36:40	0.94	40.7	6116	2.5	1.62	-
Ax	1,2,3,7,8,9-HxCDD	1.53e+06	1.27 y	36:59	0.99	16.3	6116	2.5	1.44	-
Ax	1,2,3,4,6,7,8-HpCDD	7.34e+07	1.06 y	40:12	0.97	868	16831	2.5	3.95	-
Ax	OCDD	4.73e+08	0.90 y	43:47	1.06	7600	17898	2.5	6.80	-
Ax2	OCDD-a	2.79e+07	2.59 y	43:47	0.06	7500	3253	2.5	20.7	-
Ax	2,3,7,8-TCDF	6.99e+05	0.79 y	26:00	1.05	3.32	978	2.5	0.0924	-
Ax	1,2,3,7,8-PeCDF	5.32e+05	1.68 y	31:04	0.98	3.37	1801	2.5	0.277	-
Ax	2,3,4,7,8-PeCDF	1.15e+06	1.63 y	32:14	1.01	6.98	1801	2.5	0.251	-
Ax	1,2,3,4,7,8-HxCDF	2.27e+06	1.21 y	35:35	1.22	16.7	3510	2.5	0.327	-
Ax	1,2,3,6,7,8-HxCDF	1.04e+06	1.29 y	35:43	1.15	6.98	3510	2.5	0.319	-
Ax	2,3,4,6,7,8-HxCDF	1.73e+06	1.32 y	36:23	1.13	11.1	3510	2.5	0.308	-
Ax	1,2,3,7,8,9-HxCDF	4.22e+05	1.29 y	37:23	1.12	3.40	3510	2.5	0.444	-
Ax	1,2,3,4,6,7,8-HpCDF	3.17e+07	1.05 y	39:02	1.37	252	5256	2.5	0.530	-
Ax	1,2,3,4,7,8,9-HpCDF	1.18e+06	1.15 y	40:46	1.32	9.80	5256	2.5	0.657	-
Ax	OCDF	3.75e+07	0.89 y	44:01	0.94	457	4988	2.5	1.41	-
Ax2	OCDF-a	2.23e+06	2.35 y	44:00	0.05	484	4067	2.5	20.5	-
ES	13C-2,3,7,8-TCDD	2.30e+07	0.83 y	26:55	0.96	51.4	6368	2.5	0.282	25.7
ES	13C-1,2,3,7,8-PeCDD	1.83e+07	1.66 y	32:34	0.93	47.9	3669	2.5	0.193	24.3
ES	13C-1,2,3,4,7,8-HxCDD	1.60e+07	1.30 y	36:33	0.98	51.3	6033	2.5	0.400	26.1
ES	13C-1,2,3,6,7,8-HxCDD	1.69e+07	1.29 y	36:39	0.98	48.0	6033	2.5	0.354	24.4
ES	13C-1,2,3,7,8,9-HxCDD	1.86e+07	1.26 y	36:58	1.21	53.4	6033	2.5	0.358	27.1
ES	13C-1,2,3,4,6,7,8-HpCDD	1.71e+07	1.07 y	40:11	0.98	60.4	6660	2.5	0.486	30.8
ES	13C-OCDD	2.31e+07	0.86 y	43:46	0.66	122	3605	2.5	0.393	31.0
ES	13C-2,3,7,8-TCDF	3.96e+07	0.80 y	25:58	0.96	51.4	2569	2.5	0.0719	26.1
ES	13C-1,2,3,7,8-PeCDF	3.15e+07	1.62 y	31:03	0.85	45.9	4587	2.5	0.144	23.3
ES	13C-2,3,4,7,8-PeCDF	3.19e+07	1.58 y	32:12	0.88	44.8	4587	2.5	0.139	22.7
ES	13C-1,2,3,4,7,8-HxCDF	2.21e+07	0.54 y	35:34	1.47	52.1	12228	2.5	0.595	26.4
ES	13C-1,2,3,6,7,8-HxCDF	2.54e+07	0.54 y	35:42	1.78	49.8	12228	2.5	0.495	25.3
ES	13C-2,3,4,6,7,8-HxCDF	2.73e+07	0.53 y	36:22	1.61	59.1	12228	2.5	0.546	30.0
ES	13C-1,2,3,7,8,9-HxCDF	2.19e+07	0.52 y	37:20	1.40	54.5	12228	2.5	0.627	27.7
ES	13C-1,2,3,4,6,7,8-HpCDF	1.81e+07	0.47 y	39:01	1.16	54.4	9232	2.5	0.571	27.6
ES	13C-1,2,3,4,7,8,9-HpCDF	1.79e+07	0.47 y	40:45	0.92	67.8	9232	2.5	0.720	34.4
ES	13C-OCDF	3.44e+07	0.91 y	44:00	1.04	115	8133	2.5	0.563	29.3
CS	37C1-2,3,7,8-TCDD	1.10e+07		26:56	0.99	24.2			0.0193	30.7
CS	13C-1,2,3,4,7-PeCDD	1.95e+07	1.63 y	32:03	0.77	55.2	3669	2.5	0.210	28.1
CS	13C-1,2,3,4,6-PeCDF	3.70e+07	1.60 y	30:30	0.79	57.9	4587	2.5	0.155	29.4
CS	13C-1,2,3,4,6,9-HxCDF	2.53e+07	0.53 y	36:01	1.41	62.4	12228	2.5	0.622	31.7
CS	13C-1,2,3,4,6,8,9-HpCDF	1.91e+07	0.46 y	39:30	0.91	73.0	9232	2.5	0.729	37.1
NA	n/a	*	* n	NotF>>	Div0	*	2160	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	9.02e+07	0.84 y	26:14	-	25.3	6368	2.5	-	-
JS	13C-1,2,3,4-TCDF	1.59e+08	0.79 y	24:32	-	28.1	2569	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.83e+07	1.28 y	36:51	-	12.8	2653	2.5	-	-

REJECTED

*Low Passer
M 24/3/09*

REJECTED
 Due to low
 masses
 24 March 09

Analyst: _____

Date: _____

SS	37C1-2,3,7,8-TCDD	1.10e+07		26:56	1.00	93.7		0.0717	119
SS	13C-1,2,3,4,7-PeCDD	1.95e+07	1.63 y	32:03	0.93	226	3669 2.5	0.978	115
SS	13C-1,2,3,4,6-PeCDF	3.70e+07	1.60 y	30:30	0.94	247	4587 2.5	0.743	125
SS	13C-1,2,3,4,6,9-HxCDF	2.53e+07	0.53 y	36:01	0.80	245	12228 2.5	1.59	124
SS	13C-1,2,3,4,6,8,9-HpCDF	1.91e+07	0.46 y	39:30	0.79	262	9232 2.5	1.61	133
SBS	2,4,6,8-TCDF	*	* n	NotF*	1.05	*	978 2.5	0.0924	-
Ay	1,3,6,8-TCDD	1.51e+06	0.80 y	22:58	1.08	11.9	940 2.5	0.143	-
Ay	1,2,3,9-TCDD	2.04e+04	0.39 n	26:48	1.08	0.161	940 2.5	0.143	-
Ay	1,2,8,9-TCDD	1.98e+04	1.22 n	27:59	1.08	0.156	940 2.5	0.143	-
Ay	1,2,4,7,9-PeCDD	1.90e+06	1.68 y	29:59	1.00	20.4	992 2.5	0.246	-
Ay	1,2,3,8,9-PeCDD	1.16e+05	1.59 y	33:02	1.00	1.25	992 2.5	0.246	-
Ay	1,2,4,6,7,9-HxCDD	1.10e+07	1.25 y	34:51	1.00	125	6116 2.5	1.47	-
Ay	1,2,3,4,6,7,9-HpCDD	1.16e+08	1.06 y	39:21	0.97	1370	16831 2.5	3.95	-
Ay	1,3,6,8-TCDF	2.82e+05	0.95 n	20:47	1.05	1.34	978 2.5	0.0924	-
Ay	2,3,4,8-TCDF	1.96e+05	0.73 y	25:53	1.05	0.929	978 2.5	0.0924	-
Ay	1,2,8,9-TCDF	*	* n	NotF*	1.05	*	978 2.5	0.0924	-
Ay	1,3,4,6,8-PeCDF	5.44e+06	1.78 y	28:09	1.05	25.8	1577 2.5	0.149	-
Ay	1,2,3,8,9-PeCDF	5.72e+04	1.14 n	33:19	1.00	0.356	1801 2.5	0.264	-
Ay	1,2,3,4,6,8-HxCDF	4.22e+06	1.20 y	34:10	1.15	29.8	3510 2.5	0.345	-
Tot	Total Tetra-Dioxins	4.53e+06	0.80 y	22:58	1.08	35.7	940 2.5	0.143	-
Tot	Total Penta-Dioxins	6.05e+06	1.68 y	29:59	1.00	65.1	992 2.5	0.246	-
Tot	Total Hexa-Dioxins	3.13e+07	1.25 y	34:51	1.00	360	6116 2.5	1.47	-
Tot	Total Hepta-Dioxins	1.89e+08	1.06 y	39:21	0.97	2240	16831 2.5	3.95	-
Tot	Total Tetra-Furans	9.94e+06	0.82 y	21:20	1.05	47.2	978 2.5	0.0924	-
Tot	Total Penta-Furans	8.17e+06	1.57 y	29:45	1.00	50.7	1801 2.5	0.264	-
Tot	Total Hexa-Furans	4.31e+07	1.20 y	34:10	1.15	304	3510 2.5	0.345	-
Tot	Total Hepta-Furans	8.26e+07	1.05 y	39:02	1.35	665	5256 2.5	0.591	-
Tot	TCDD EMPC	4.68e+06	0.80 y	22:58	1.08	940	2.5	0.143	-
Tot	PeCDD EMPC	6.17e+06	1.68 y	29:59	1.00	66.3	2.5	0.246	-
Tot	HxCDD EMPC	3.13e+07	1.25 y	34:51	1.00	360	2.5	1.47	-
Tot	HpCDD EMPC	1.89e+08	1.06 y	39:21	0.97	2240	2.5	3.95	-
Tot	TCDF EMPC	1.05e+07	0.95 n	20:47	1.05	49.7	2.5	0.0924	-
Tot	PeCDF EMPC	8.42e+06	1.57 y	29:45	1.00	52.3	2.5	0.264	-
Tot	HxCDF EMPC	4.31e+07	1.20 y	34:10	1.15	304	2.5	0.345	-
Tot	HpCDF EMPC	8.26e+07	1.05 y	39:02	1.35	665	2.5	0.591	-
AS	13C-1,3,6,8-TCDD	2.53e+07	0.81 y	22:56	1.09	50.7	6368 2.5	0.258	25.8
AS	13C-1,3,6,8-TCDF	4.81e+07	0.78 y	20:45	1.09	54.8	2569 2.5	0.0631	27.9
DPE	HxCdPE	*		NotF*	-	*		-	-
DPE	HpCdPE	*		NotF*	-	*		-	-
DPE	OCdPE	*		NotF*	-	*		-	-
DPE	NCdPE	*		NotF*	-	*		-	-
DPE	DCdPE	*		NotF*	-	*		-	-
LMC	Fn1 check mass	*		NotF*	-	*		-	-
LMC	Fn2 check mass	*		NotF*	-	*		-	-
LMC	Fn3 check mass	*		NotF*	-	*		-	-
LMC	Fn4 check mass	*		NotF*	-	*		-	-
LMC	Fn5 check mass	*		NotF*	-	*		-	-

REJECTED

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 15 Checkcode: 4829
 File Name: 090311P2 Sample #: 8 Sample text: P1158_6630_004 PO-BA-27B-SS-A-090226 10»

Acquired: 11-MAR-09 22:20:58 Processed: 19-MAR-09 17:26:06

Total Conc.: 36.902 Unnamed Conc.: 23.660 Homolog count: 16

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
22:58	6.673e+05	n	8.392e+05	n	0.80	y	1.506e+06	1.506e+06	1.79e+02	y	11.9	1,3,6,8-TCDD
23:23	4.706e+05	n	5.813e+05	n	0.81	y	1.052e+06	1.052e+06	1.13e+02	y	8.30	
23:51	4.229e+04	n	6.368e+04	n	0.66	y	1.060e+05	1.060e+05	1.72e+01	y	0.836	
24:42	5.929e+04	n	6.989e+04	n	0.85	y	1.292e+05	1.292e+05	1.72e+01	y	1.02	
24:58	1.165e+05	n	1.431e+05	n	0.81	y	2.596e+05	2.596e+05	3.35e+01	y	2.05	
25:10	1.311e+05	n	1.614e+05	n	0.81	y	2.924e+05	2.924e+05	3.91e+01	y	2.31	
25:23	3.971e+04	n	4.738e+04	n	0.84	y	8.709e+04	8.709e+04	1.49e+01	y	0.687	
25:50	5.199e+04	n	6.542e+04	n	0.79	y	1.174e+05	1.174e+05	1.68e+01	y	0.927	
26:15	1.255e+05	n	1.473e+05	n	0.85	y	2.728e+05	2.728e+05	3.24e+01	y	2.15	
26:24	1.219e+04	n	1.426e+04	n	0.85	y	2.645e+04	2.645e+04	5.17e+00	y	0.209	
26:39	2.445e+05	n	3.049e+05	n	0.80	y	5.494e+05	5.494e+05	6.74e+01	y	4.34	
26:48	8.892e+03	n	2.303e+04	n	0.39	n	3.192e+04	2.044e+04	5.45e+00	y	0.161	1,2,3,9-TCDD
26:57	5.580e+04	n	7.551e+04	n	0.74	y	1.313e+05	1.313e+05	1.95e+01	y	1.04	2,3,7,8-TCDD
27:17	4.330e+04	n	4.823e+04	n	0.90	n	9.153e+04	8.537e+04	1.33e+01	y	0.674	
27:25	8.906e+03	n	1.390e+04	n	0.64	n	2.281e+04	2.047e+04	5.06e+00	y	0.06	
27:59	1.366e+04	n	1.116e+04	n	1.22	n	2.482e+04	1.976e+04	3.58e+00	y	0.156	1,2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 15 Checkcode: 4829
 File Name: 090311P2 Sample #: 8 Sample text: P1158_6630_004 PO-BA-27B-SS-A-090226 10»

Acquired: 11-MAR-09 22:20:58 Processed: 19-MAR-09 17:26:06

Total Conc.: 66.334 Unnamed Conc.: 40.585 Homolog count: 10

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
29:59	1.189e+06	n	7.089e+05	y	1.68	y	1.898e+06	1.898e+06	1.41e+02	y	20.4	1,2,4,7,9-PeCDD
30:33	3.418e+05	n	1.970e+05	n	1.74	y	5.388e+05	5.388e+05	6.29e+01	y	5.80	
31:07	6.270e+05	n	3.979e+05	n	1.58	y	1.025e+06	1.025e+06	1.06e+02	y	11.0	
31:18	2.949e+05	y	1.804e+05	y	1.63	y	4.753e+05	4.753e+05	5.57e+01	y	5.11	
31:25	4.748e+05	y	2.888e+05	y	1.64	y	7.636e+05	7.636e+05	8.36e+01	y	8.21	
31:41	3.122e+05	n	2.025e+05	n	1.54	y	5.147e+05	5.147e+05	3.95e+01	y	5.54	
32:04	2.069e+05	y	1.350e+05	y	1.53	y	3.418e+05	3.418e+05	4.03e+01	y	3.68	
32:34	2.277e+05	y	1.522e+05	y	1.50	y	3.799e+05	3.799e+05	4.54e+01	y	4.09	1,2,3,7,8-PeCDD
32:40	8.443e+04	y	4.446e+04	y	1.90	n	1.289e+05	1.134e+05	1.18e+01	y	1.22	
33:02	7.126e+04	n	4.475e+04	y	1.59	y	1.160e+05	1.160e+05	1.26e+01	y	1.25	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 15 Checkcode: 4829
 File Name: 090311P2 Sample #: 8 Sample text: P1158_6630_004 PO-BA-27B-SS-A-090226 10»

Acquired: 11-MAR-09 22:20:58 Processed: 19-MAR-09 17:26:06

Total Conc.: 359.63 Unnamed Conc.: 170.085 Homolog count: 8

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:51	6.089e+06	n	4.870e+06	n	1.25	y	1.096e+07	1.096e+07	2.35e+02	y	125	1,2,4,6,7,9-HxCDD
35:30	1.428e+06	n	1.178e+06	n	1.21	y	2.606e+06	2.606e+06	5.78e+01	y	29.8	
35:48	6.003e+06	n	4.773e+06	n	1.26	y	1.078e+07	1.078e+07	1.79e+02	y	123	
35:56	5.795e+05	n	5.027e+05	n	1.15	y	1.082e+06	1.082e+06	2.17e+01	y	12.4	
36:33	3.487e+05	n	2.780e+05	n	1.25	y	6.267e+05	6.267e+05	1.44e+01	y	7.14	1,2,3,4,7,8-HxCDD
36:40	1.869e+06	n	1.426e+06	n	1.31	y	3.295e+06	3.295e+06	6.05e+01	y	40.7	1,2,3,6,7,8-HxCDD
36:52	2.189e+05	n	1.785e+05	n	1.23	y	3.974e+05	3.974e+05	7.97e+00	y	4.55	
36:59	8.534e+05	n	6.740e+05	n	1.27	y	1.527e+06	1.527e+06	3.09e+01	y	16.3	1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDD EMPC Function: 4 Run #: 15 Checkcode: 4829
 File Name: 090311P2 Sample #: 8 Sample text: P1158_6630_004 PO-BA-27B-SS-A-090226 10»

Acquired: 11-MAR-09 22:20:58 Processed: 19-MAR-09 17:26:06

Total Conc.: 2241.4 Unnamed Conc.: * Homolog count: 2

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:21	5.962e+07	n	5.647e+07	n	1.06	y	1.161e+08	1.161e+08	9.23e+02	y	1370	1,2,3,4,6,7,9-HpCDD
40:12	3.767e+07	n	3.570e+07	n	1.06	y	7.337e+07	7.337e+07	5.23e+02	y	868	1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: TCDF EMPC Function: 1 Run #: 15 Checkcode: 4829
 File Name: 090311P2 Sample #: 8 Sample text: P1158_6630_004 PO-BA-27B-SS-A-090226 10»

Acquired: 11-MAR-09 22:20:58 Processed: 19-MAR-09 17:26:06

Total Conc.: 49.677 Unnamed Conc.: 44.092 Homolog count: 21

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
20:47	1.518e+05	n	1.591e+05	n	0.95	n	3.109e+05	2.816e+05	3.41e+01	y	1.34	1,3,6,8-TCDF
21:20	1.921e+05	n	2.335e+05	n	0.82	y	4.256e+05	4.256e+05	5.11e+01	y	2.02	
21:58	4.919e+05	n	6.236e+05	n	0.79	y	1.115e+06	1.115e+06	1.16e+02	y	5.30	
22:30	5.316e+05	n	6.457e+05	n	0.82	y	1.177e+06	1.177e+06	7.09e+01	y	5.59	
22:56	5.128e+05	n	6.587e+05	n	0.78	y	1.171e+06	1.171e+06	9.51e+01	y	5.56	
23:24	3.119e+05	y	4.028e+05	y	0.77	y	7.147e+05	7.147e+05	7.46e+01	y	3.39	
23:33	1.133e+05	y	1.361e+05	y	0.83	y	2.495e+05	2.495e+05	3.09e+01	y	1.18	
23:43	1.961e+05	y	2.422e+05	n	0.81	y	4.383e+05	4.383e+05	4.85e+01	y	2.08	
24:08	1.014e+05	y	1.174e+05	y	0.86	y	2.187e+05	2.187e+05	2.15e+01	y	1.04	
24:17	1.502e+05	y	2.010e+05	n	0.75	y	3.513e+05	3.513e+05	3.92e+01	y	1.67	
24:26	3.637e+05	y	4.363e+05	y	0.83	y	7.999e+05	7.999e+05	8.16e+01	y	3.80	
24:34	2.196e+05	y	2.738e+05	y	0.80	y	4.934e+05	4.934e+05	5.55e+01	y	2.34	
25:03	3.124e+05	n	3.663e+05	n	0.85	y	6.786e+05	6.786e+05	8.23e+01	y	3.22	
25:20	1.256e+05	n	1.490e+05	n	0.84	y	2.746e+05	2.746e+05	3.48e+01	y	1.30	
25:33	8.383e+04	y	8.471e+04	n	0.99	n	1.685e+05	1.499e+05	1.87e+01	y	0.712	
25:46	9.303e+04	y	1.103e+05	y	0.84	y	2.033e+05	2.033e+05	2.58e+01	y	0.965	
25:53	8.224e+04	y	1.134e+05	y	0.73	y	1.956e+05	1.956e+05	2.49e+01	y	0.929	2,3,4,8-TCDF
26:00	3.077e+05	y	3.913e+05	y	0.79	y	6.990e+05	6.990e+05	9.65e+01	y	3.32	2,3,7,8-TCDF
26:23	3.270e+05	n	4.062e+05	n	0.81	y	7.332e+05	7.332e+05	8.19e+01	y	3.48	
26:40	2.811e+04	y	5.417e+04	y	0.52	n	8.228e+04	6.462e+04	1.35e+01	y	0.307	
26:55	1.122e+04	y	1.786e+04	y	0.63	n	2.908e+04	2.579e+04	6.37e+00	y	0.122	
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: PeCDF EMPC Function: 2 Run #: 15 Checkcode: 4829

File Name: 090311P2 Sample #: 8 Sample text: P1158_6630_004 PO-BA-27B-SS-A-090226 10»

Acquired: 11-MAR-09 22:20:58 Processed: 19-MAR-09 17:26:06

Total Conc.: 52.252 Unnamed Conc.: 41.540 Homolog count: 10

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
29:45	3.708e+05	n	2.360e+05	y	1.57 y	6.069e+05	6.069e+05	3.50e+01	y	3.77
29:55	2.226e+06	n	1.364e+06	n	1.63 y	3.590e+06	3.590e+06	1.60e+02	y	22.3
30:22	1.154e+05	n	9.050e+04	n	1.27 n	2.059e+05	1.898e+05	1.05e+01	y	1.18
30:37	7.204e+05	n	4.411e+05	n	1.63 y	1.161e+06	1.161e+06	4.81e+01	y	7.22
30:51	1.765e+05	n	1.051e+05	n	1.68 y	2.817e+05	2.817e+05	1.56e+01	y	1.75
31:04	3.337e+05	n	1.987e+05	y	1.68 y	5.324e+05	5.324e+05	2.95e+01	y	3.37 1,2,3,7,8-PeCDF
31:22	3.870e+05	n	2.382e+05	n	1.62 y	6.251e+05	6.251e+05	2.87e+01	y	3.88
32:05	1.322e+05	n	9.781e+04	n	1.35 y	2.300e+05	2.300e+05	1.26e+01	y	1.43
32:14	7.096e+05	n	4.358e+05	y	1.63 y	1.145e+06	1.145e+06	5.05e+01	y	6.98 2,3,4,7,8-PeCDF
33:19	3.478e+04	n	3.055e+04	y	1.14 n	6.533e+04	5.722e+04	5.88e+00	y	0.356 1,2,3,8,9-PeCDF
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: HxCDF EMPC Function: 3 Run #: 15 Checkcode: 4829

File Name: 090311P2 Sample #: 8 Sample text: P1158_6630_004 PO-BA-27B-SS-A-090226 10»

Acquired: 11-MAR-09 22:20:58 Processed: 19-MAR-09 17:26:06

Total Conc.: 303.74 Unnamed Conc.: 235.807 **REJECTED** Homolog count: 10

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:10	2.307e+06	n	1.916e+06	n	1.20 y	4.223e+06	4.223e+06	1.63e+02	y	29.8 1,2,3,4,6,8-HxCDF
34:23	7.644e+06	n	6.052e+06	n	1.26 y	1.370e+07	1.370e+07	5.00e+02	y	96.7
34:48	3.152e+05	n	2.758e+05	n	1.15 y	5.920e+05	5.920e+05	2.14e+01	y	4.18
35:02	1.021e+07	n	8.236e+06	n	1.24 y	1.844e+07	1.844e+07	7.25e+02	y	130
35:27	2.278e+05	n	1.734e+05	n	1.31 y	4.013e+05	4.013e+05	1.28e+01	y	2.83
35:35	1.246e+06	n	1.027e+06	n	1.21 y	2.273e+06	2.273e+06	8.03e+01	y	16.7 1,2,3,4,7,8-HxCDF
35:43	5.841e+05	n	4.521e+05	n	1.29 y	1.036e+06	1.036e+06	3.43e+01	y	6.98 1,2,3,6,7,8-HxCDF
36:02	1.342e+05	n	1.189e+05	n	1.13 y	2.531e+05	2.531e+05	1.21e+01	y	1.79
36:23	9.859e+05	n	7.463e+05	n	1.32 y	1.733e+06	1.733e+06	6.28e+01	y	11.1 2,3,4,6,7,8-HxCDF
37:23	2.378e+05	n	1.846e+05	n	1.29 y	4.224e+05	4.224e+05	1.19e+01	y	3.40 1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: HpCDF EMPC Function: 4 Run #: 15 Checkcode: 4829

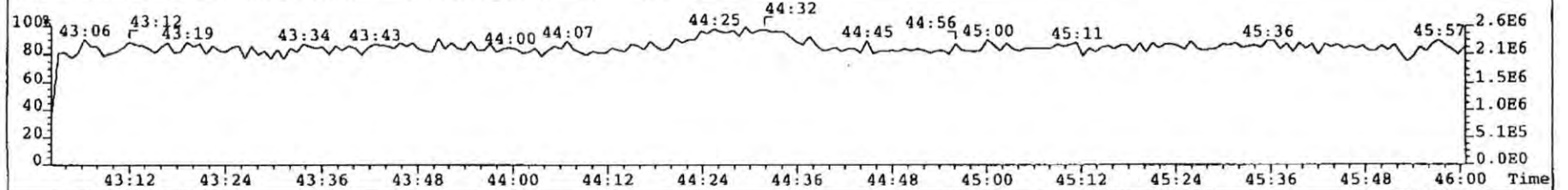
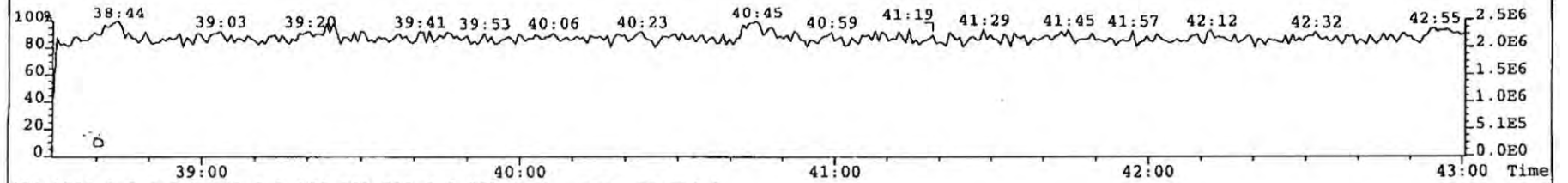
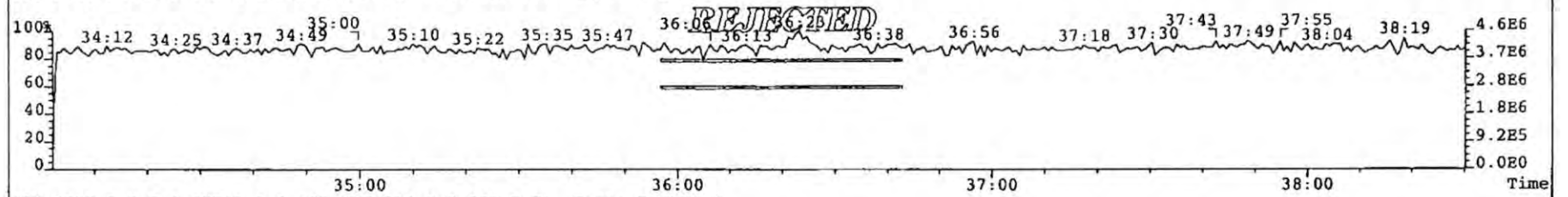
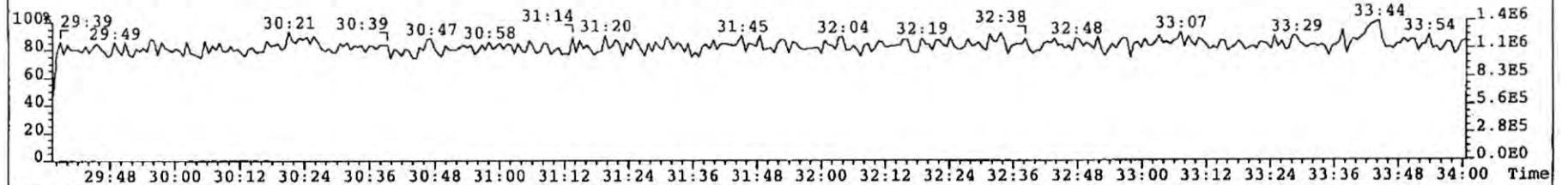
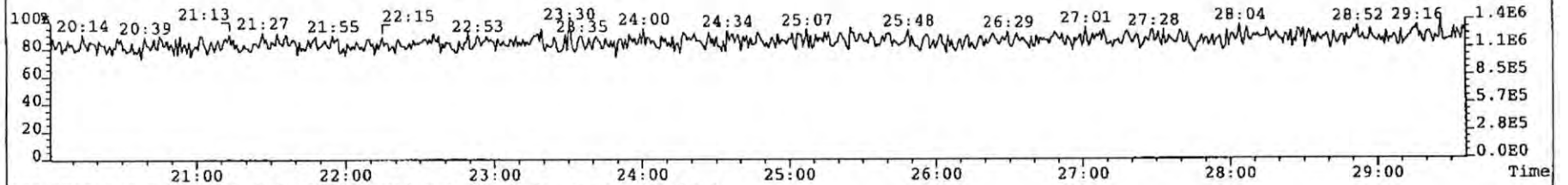
File Name: 090311P2 Sample #: 8 Sample text: P1158_6630_004 PO-BA-27B-SS-A-090226 10»

Acquired: 11-MAR-09 22:20:58 Processed: 19-MAR-09 17:26:06

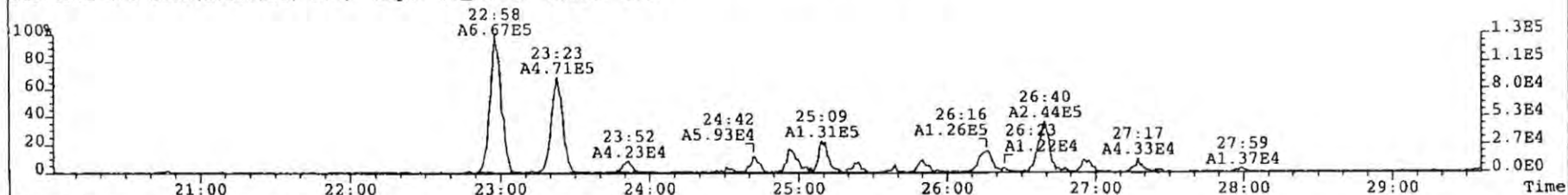
Total Conc.: 665.35 Unnamed Conc.: 403.301 Homolog count: 4

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:02	1.621e+07	n	1.549e+07	n	1.05 y	3.170e+07	3.170e+07	8.54e+02	y	252 1,2,3,4,6,7,8-HpCDF
39:20	4.562e+05	y	4.286e+05	y	1.06 y	8.848e+05	8.848e+05	1.73e+01	y	7.18
39:31	2.510e+07	n	2.373e+07	n	1.06 y	4.883e+07	4.883e+07	1.26e+03	y	396
40:46	6.298e+05	n	5.500e+05	n	1.15 y	1.180e+06	1.180e+06	2.84e+01	y	9.80 1,2,3,4,7,8,9-HpCDF

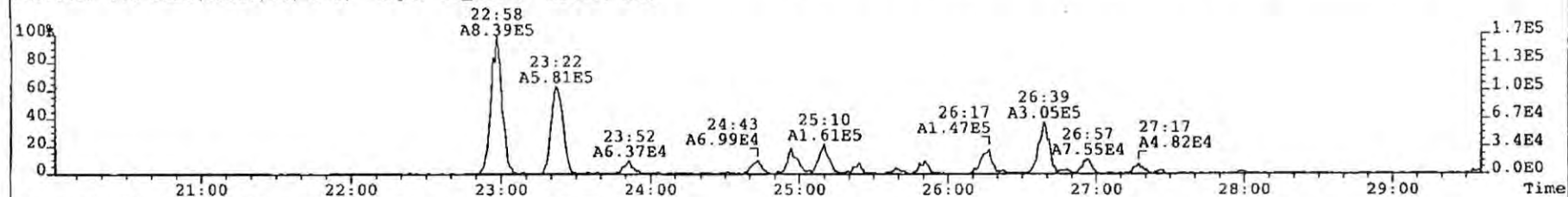
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
316.9824 S:8 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



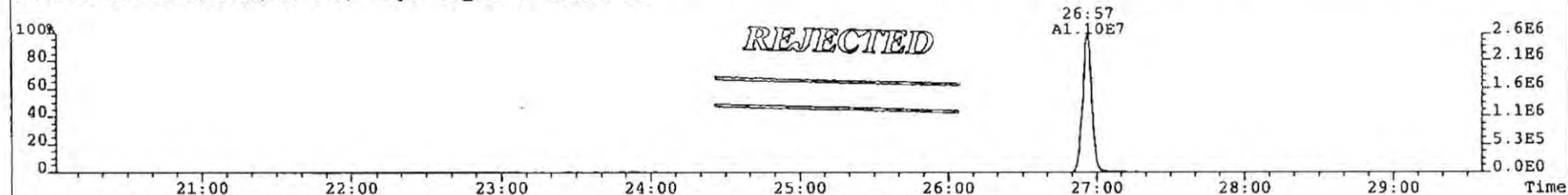
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
319.8965 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 115



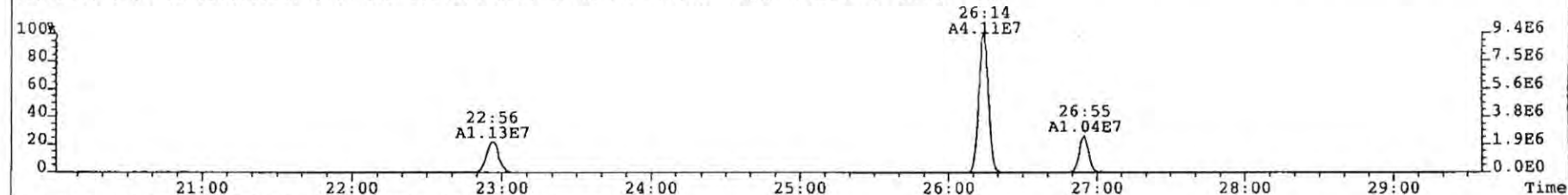
321.8936 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 122



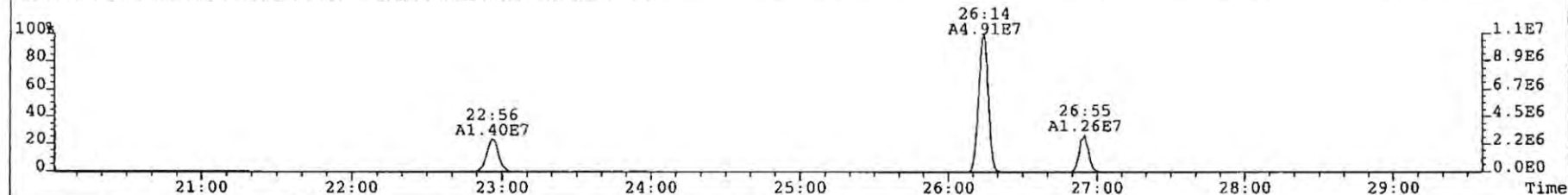
327.8850 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 119



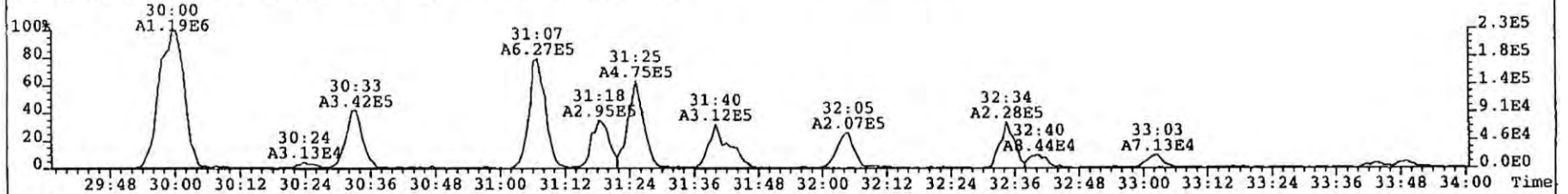
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 128



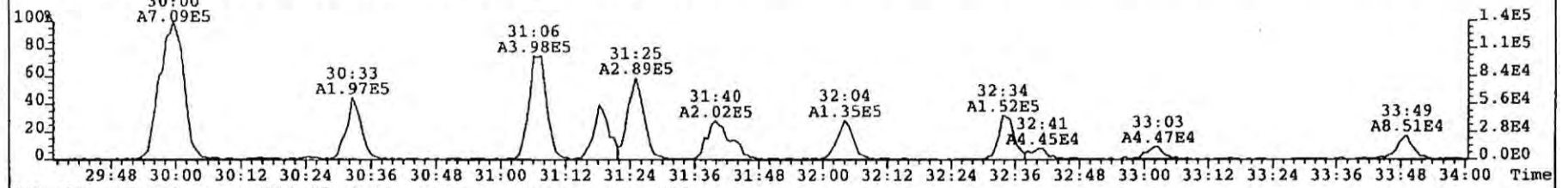
333.9339 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 135



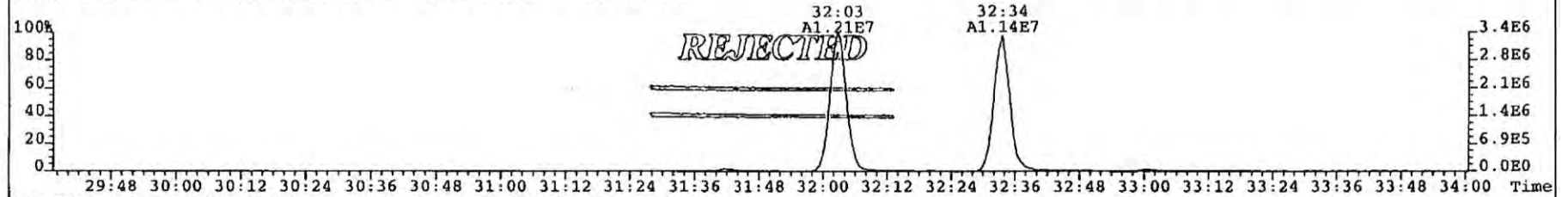
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
355.8546 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 227



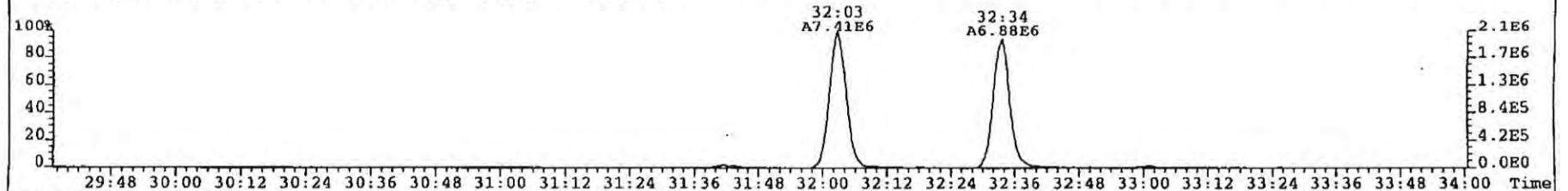
357.8517 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 92



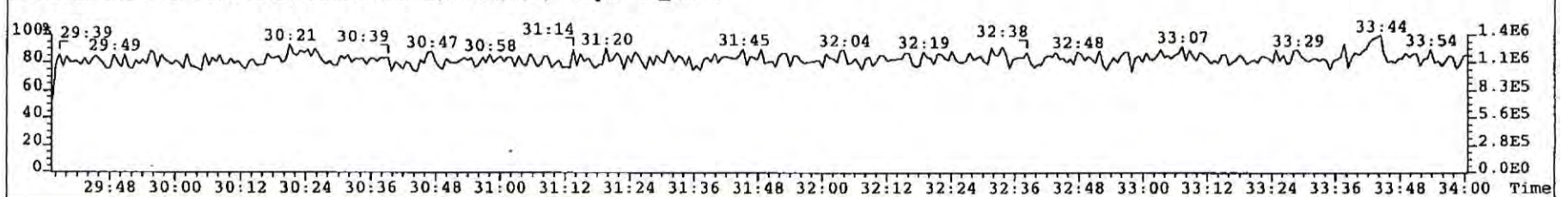
367.8949 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 109



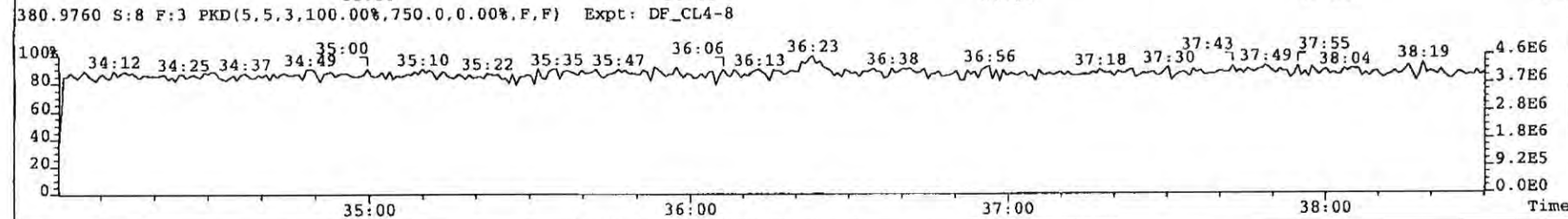
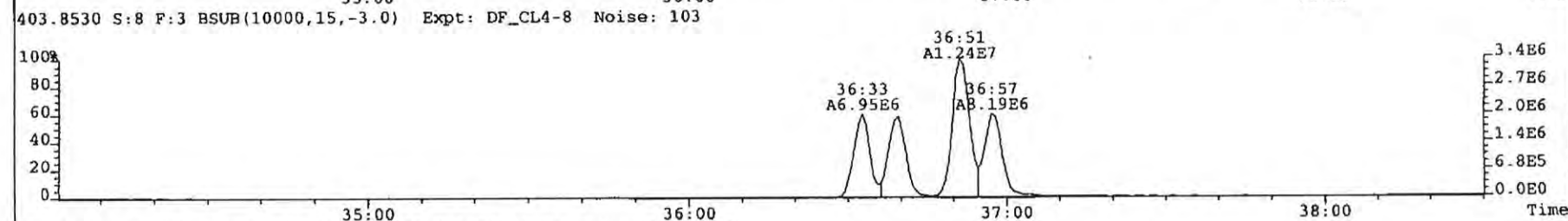
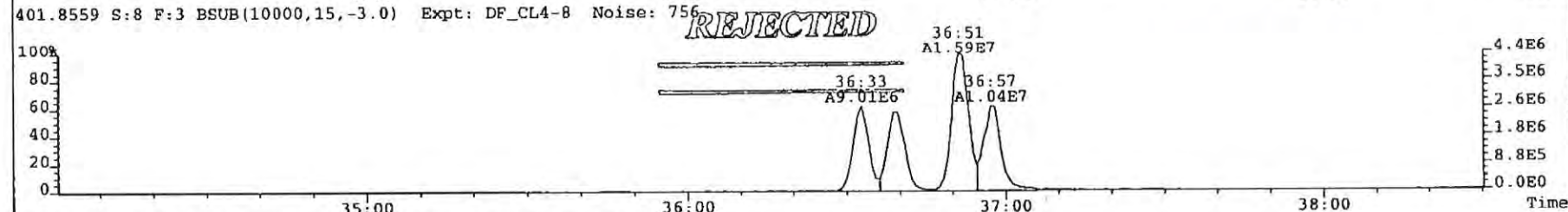
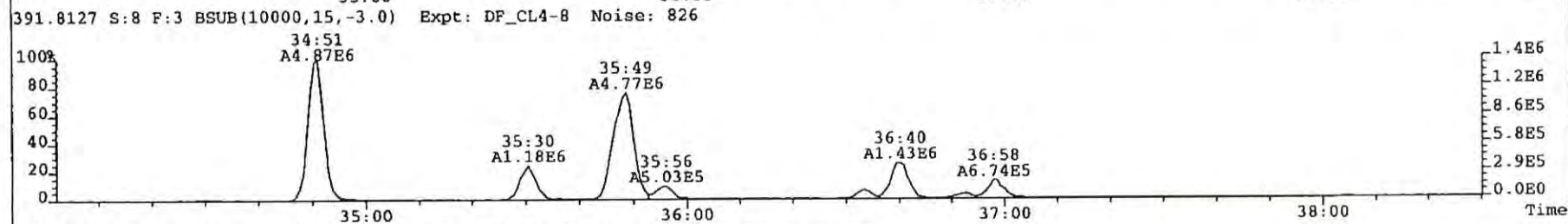
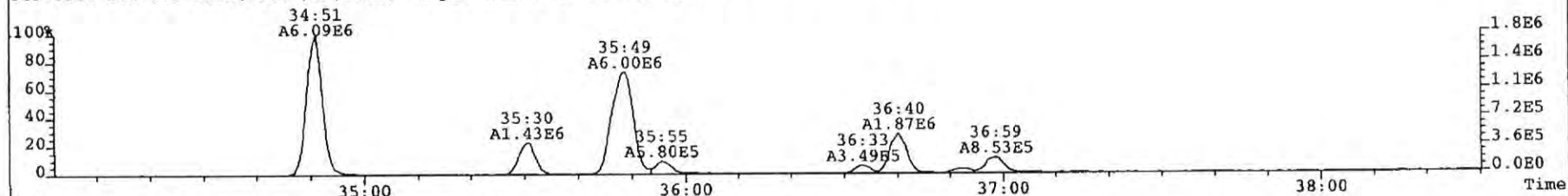
369.8919 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 94



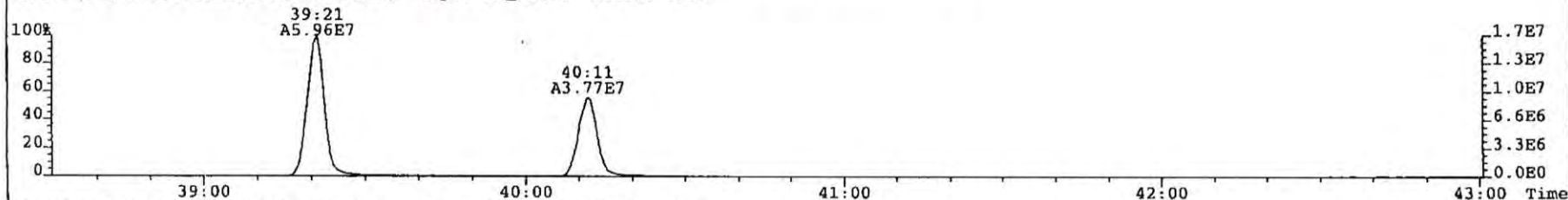
366.9792 S:8 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



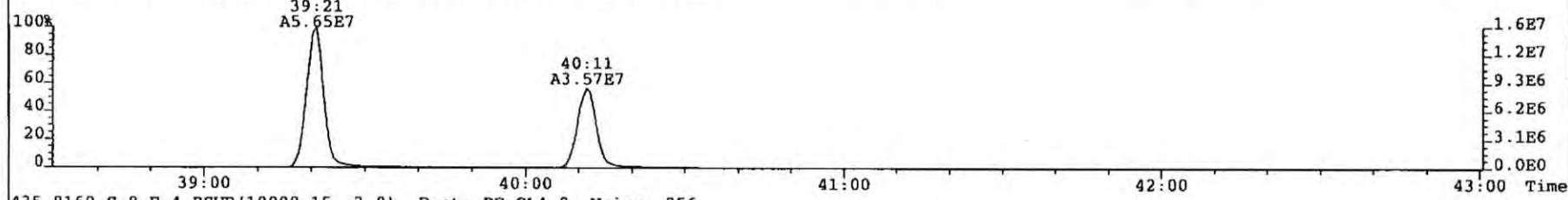
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
389.8156 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1086



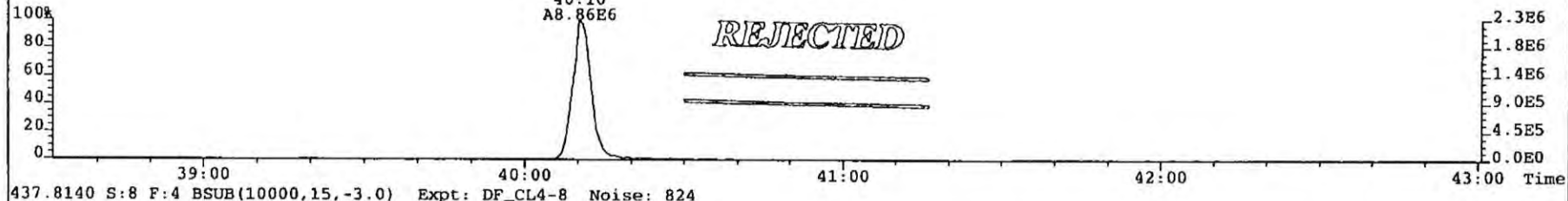
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
423.7767 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2824



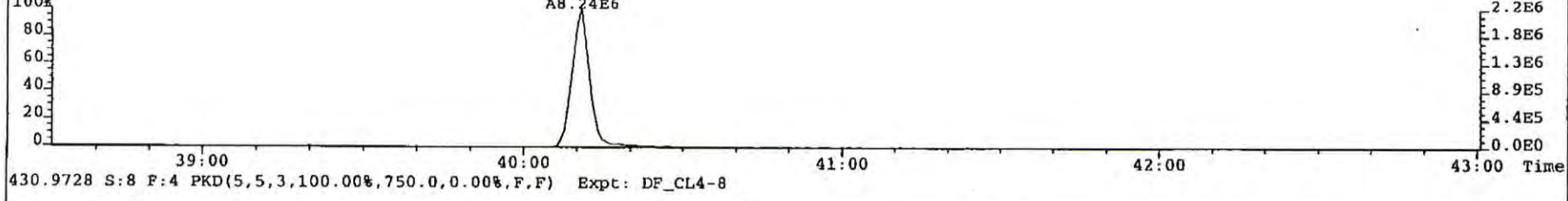
425.7737 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3613



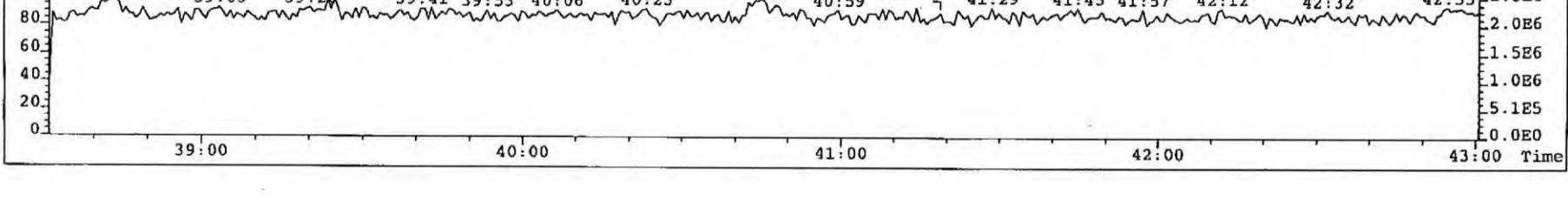
435.8169 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 256



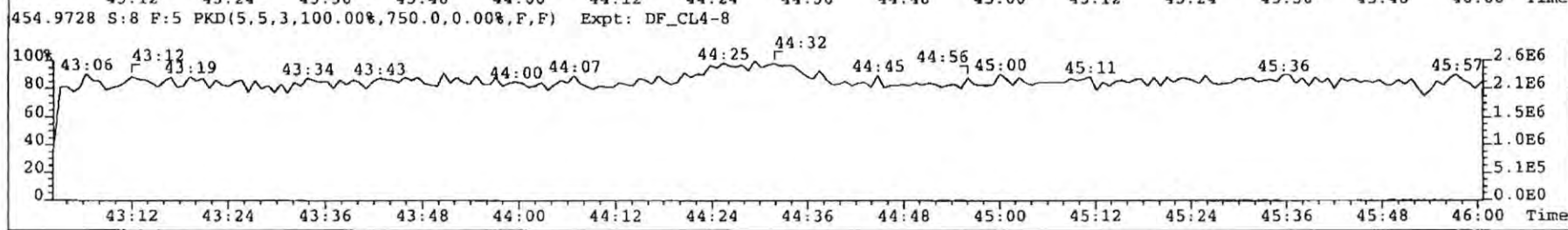
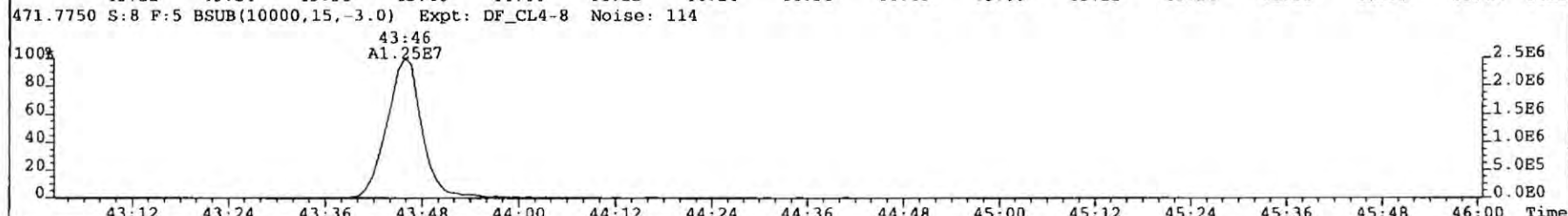
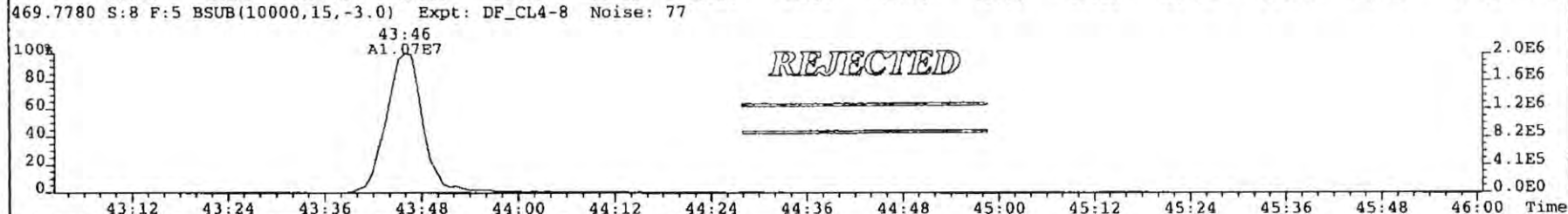
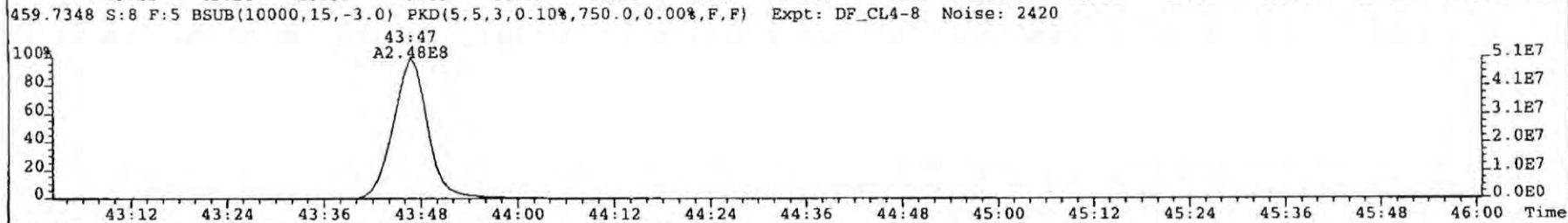
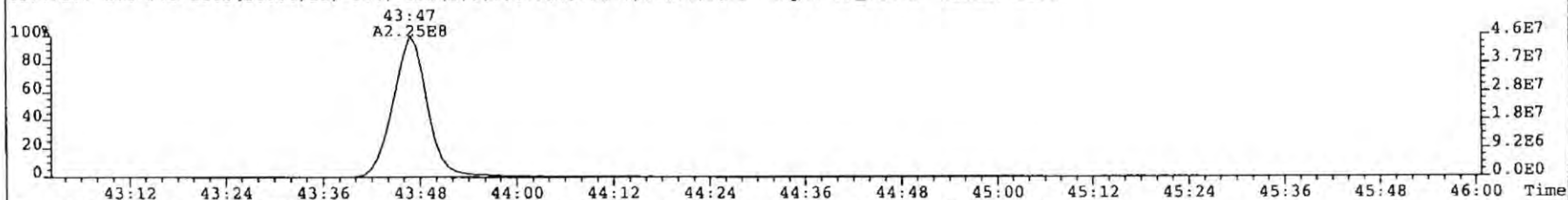
437.8140 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 824



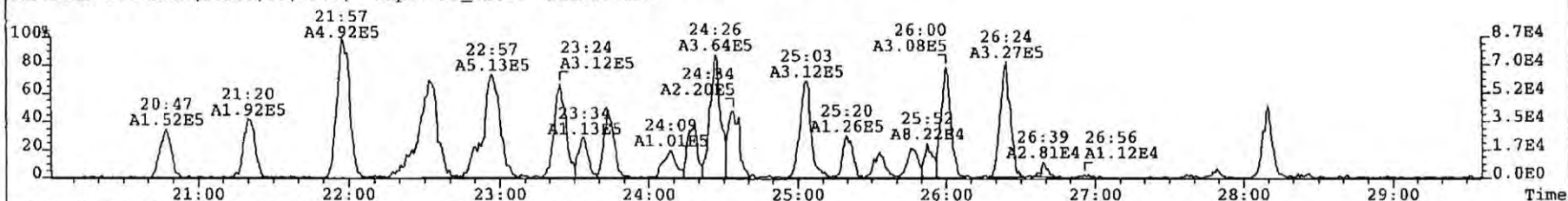
430.9728 S:8 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



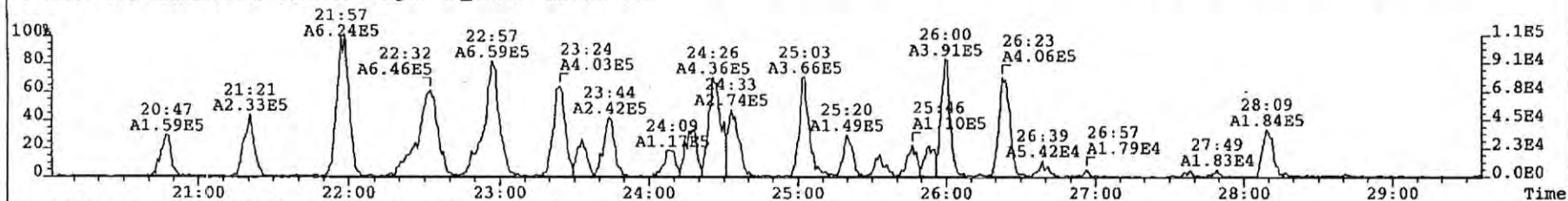
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2502



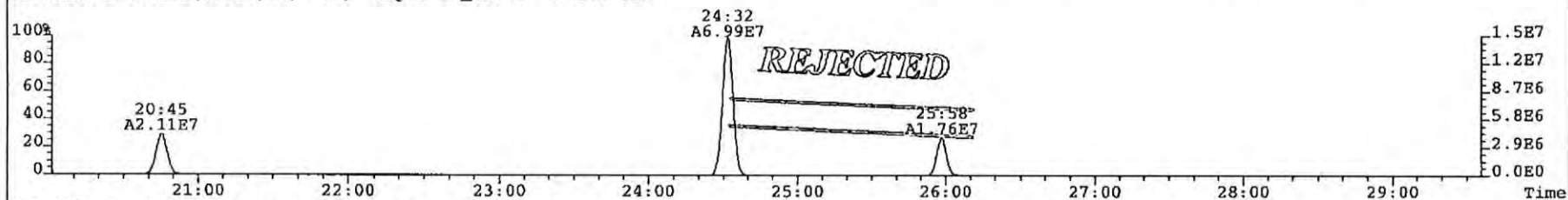
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
303.9016 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 129



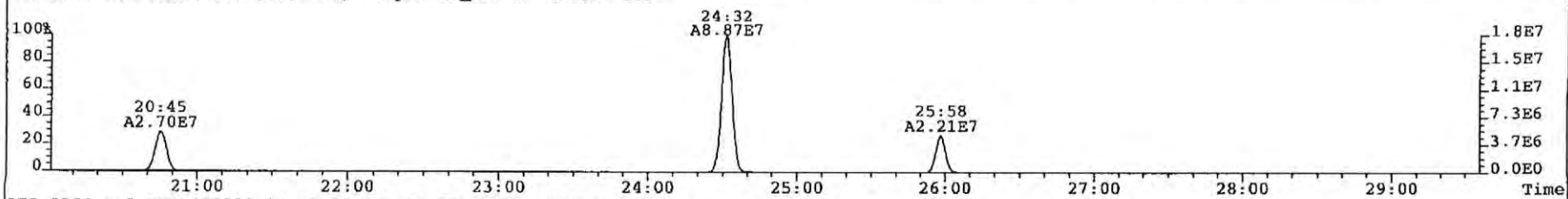
305.8987 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 118



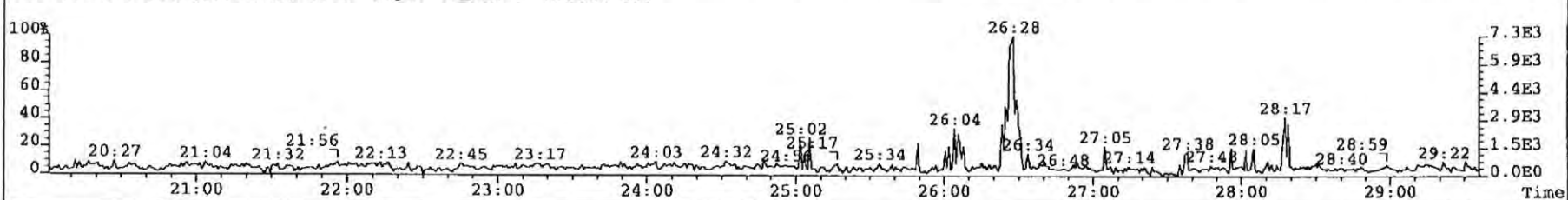
315.9419 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 129



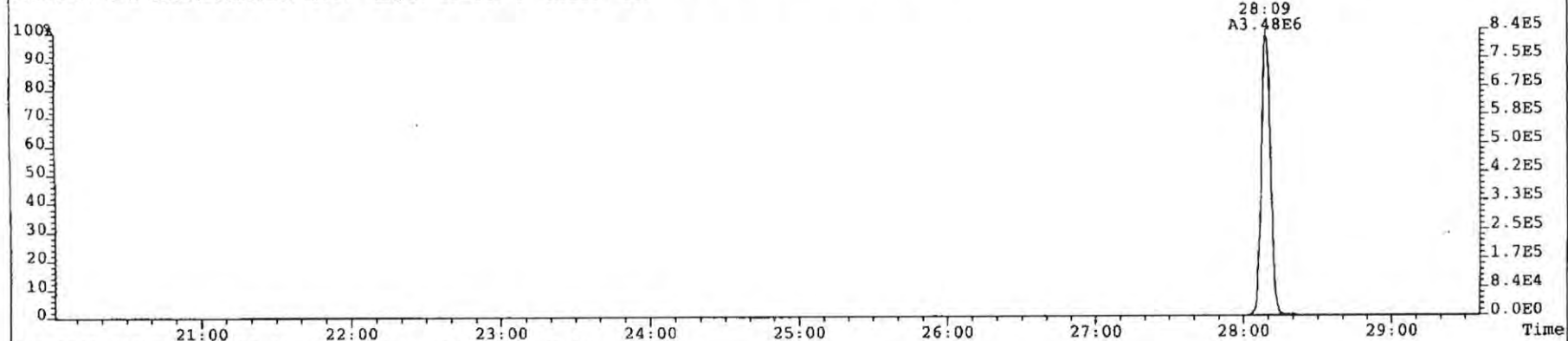
317.9389 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 145



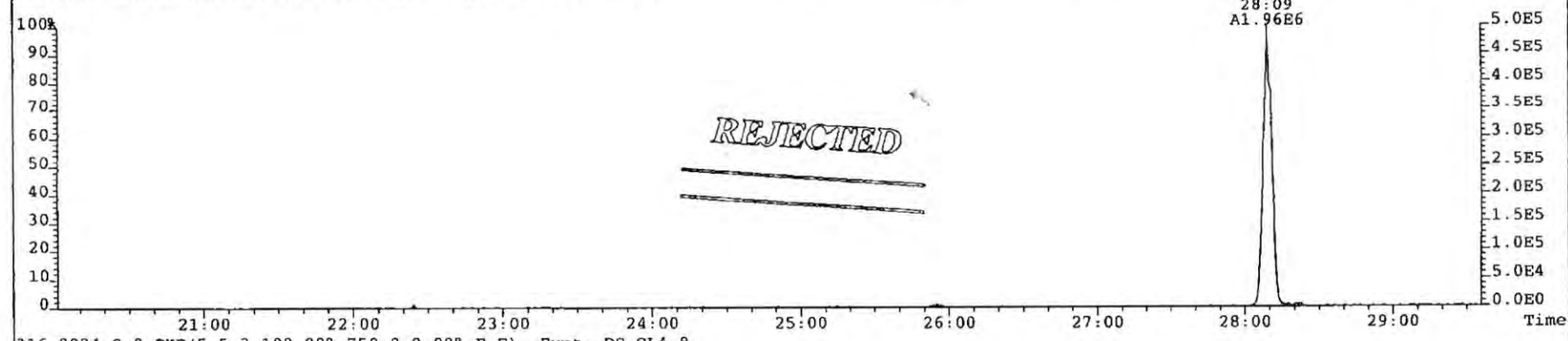
375.8364 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 124



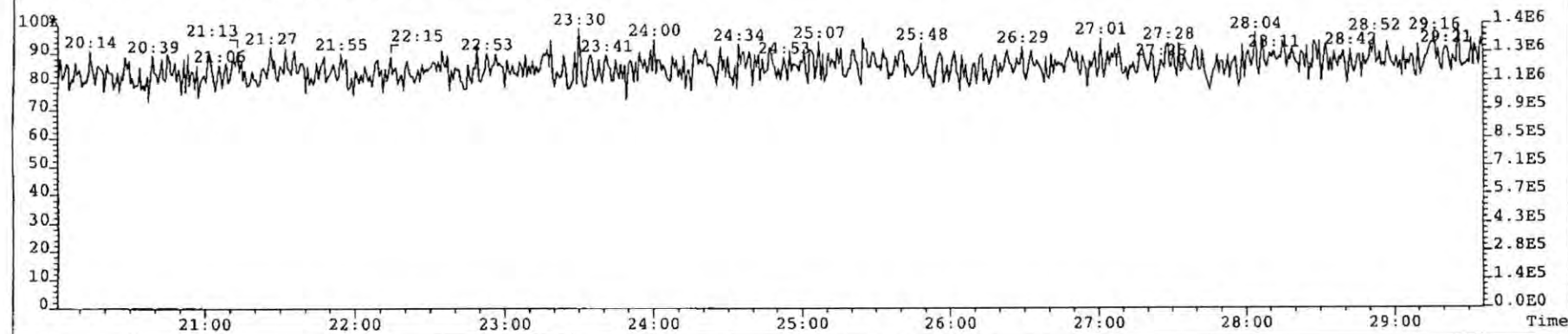
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
339.8597 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 119



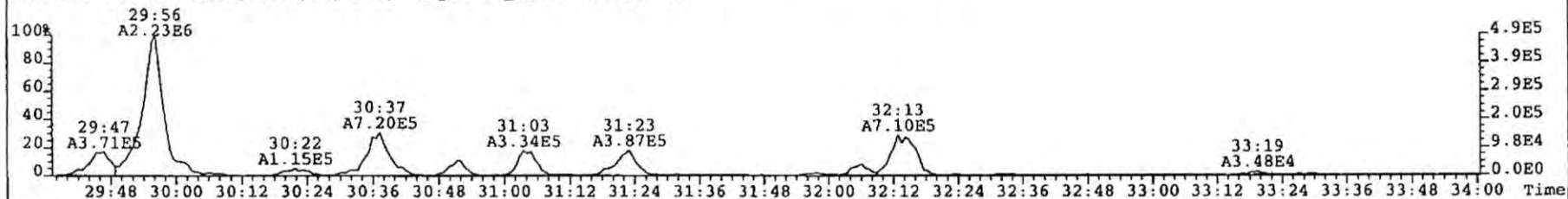
341.8568 S:8 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 124



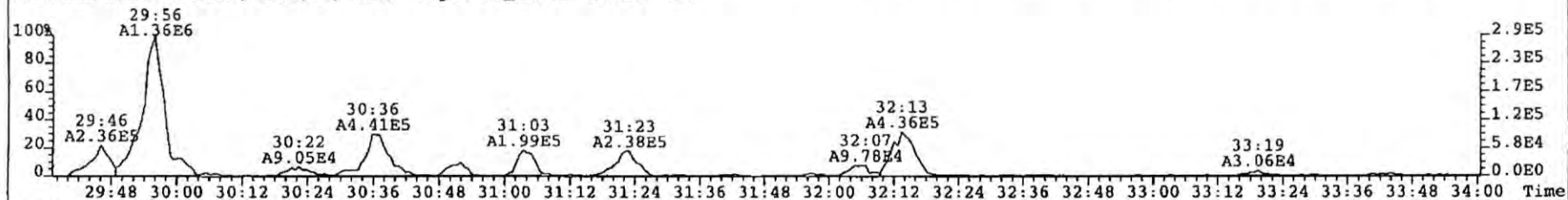
316.9824 S:8 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



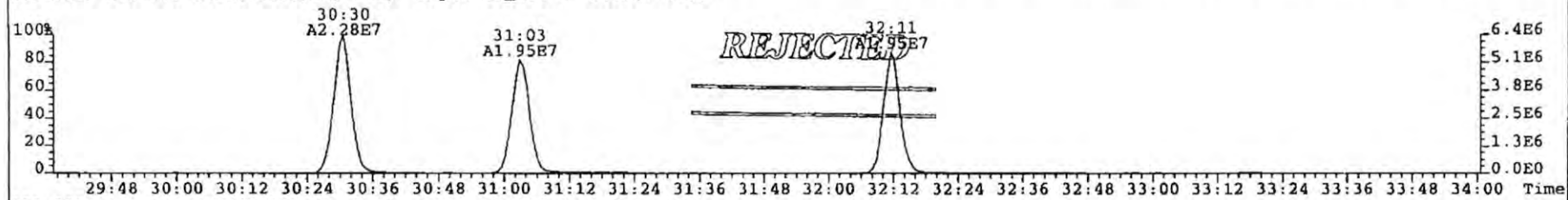
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
339.8597 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 497



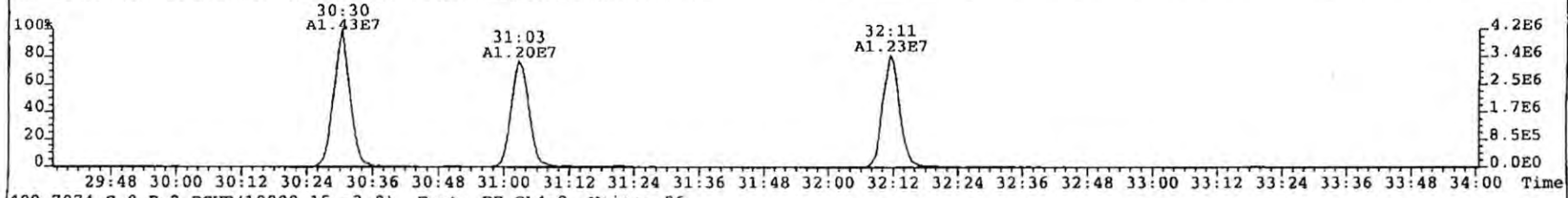
341.8568 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 400



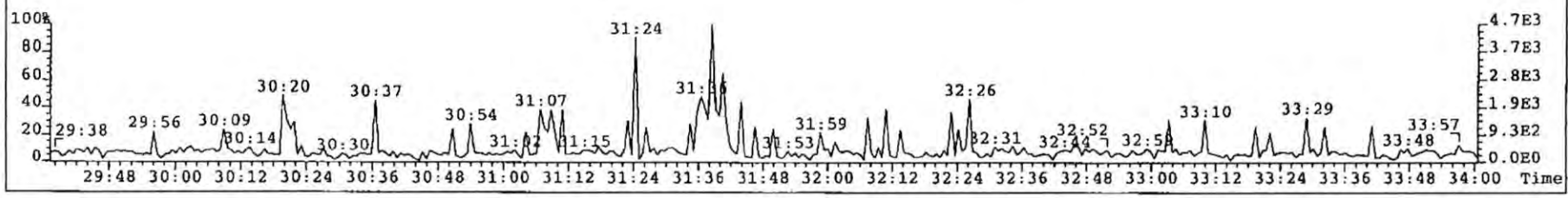
351.9000 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1266



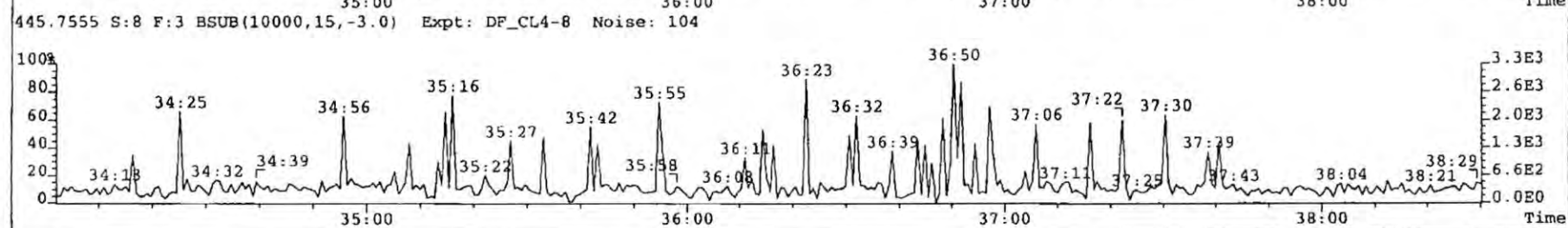
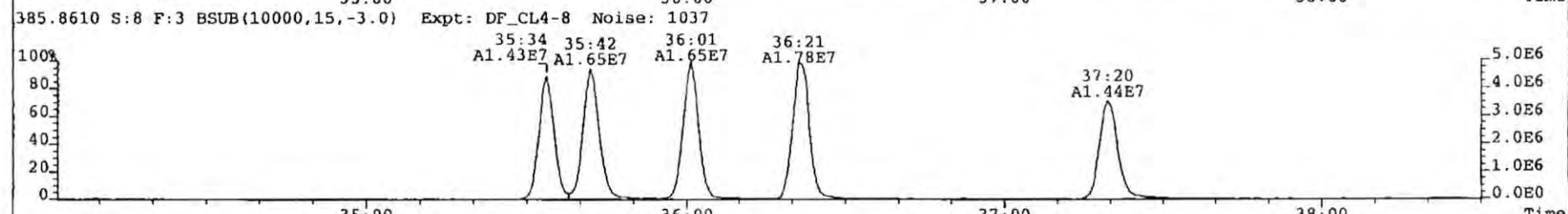
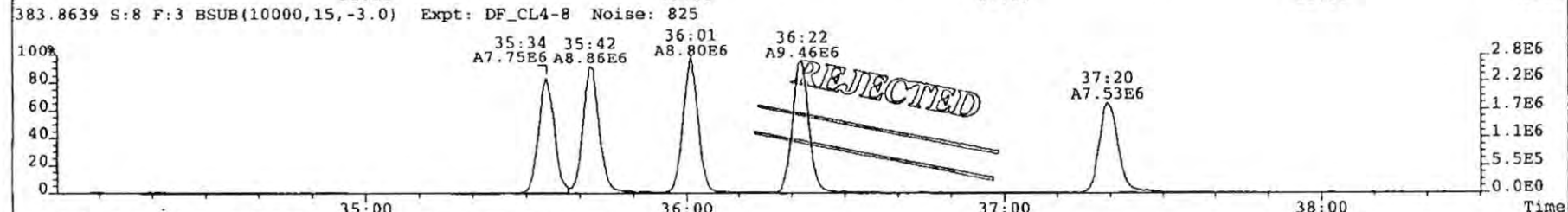
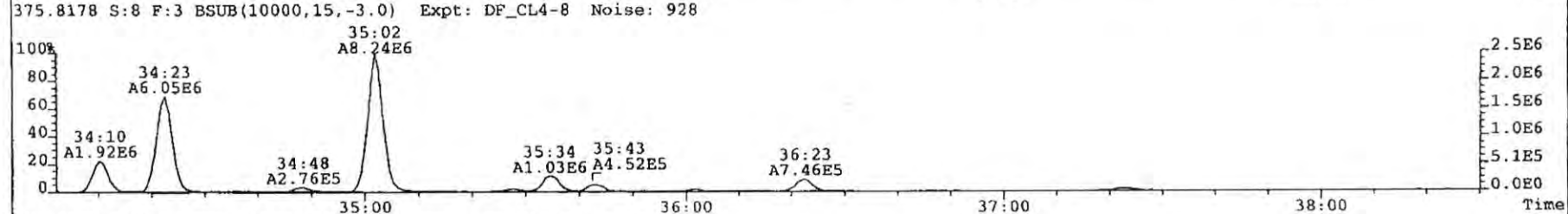
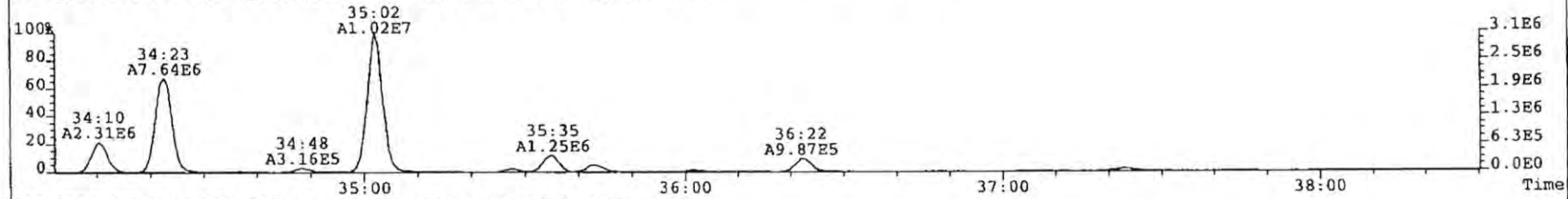
353.8970 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 889



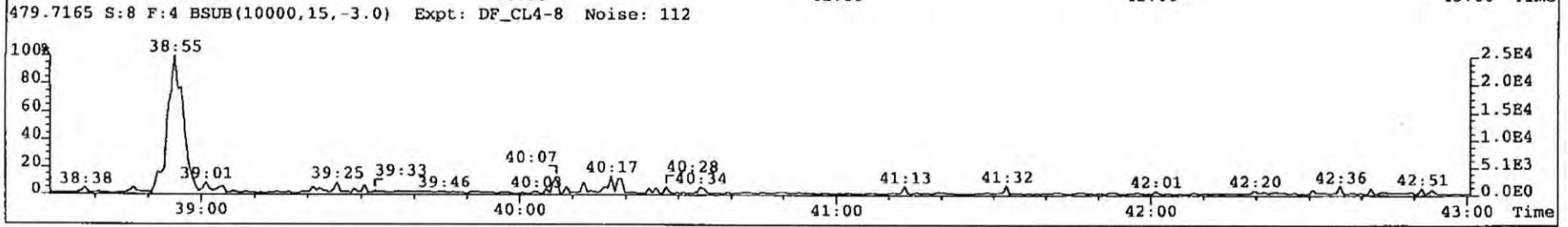
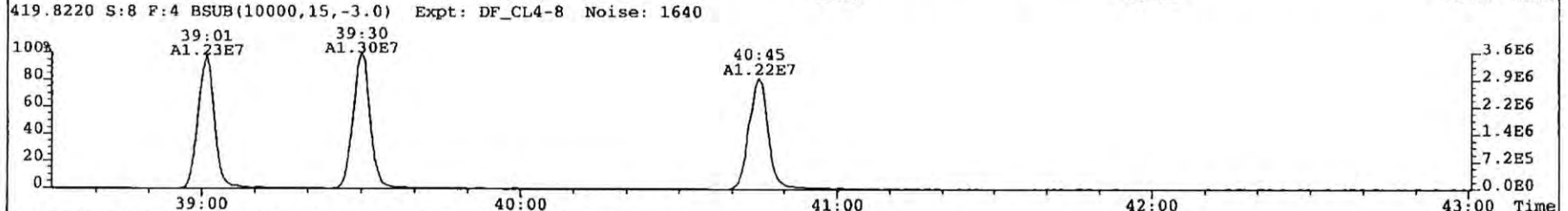
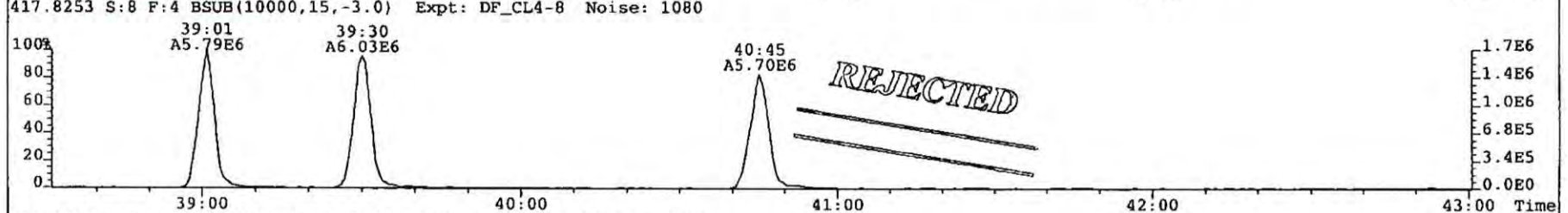
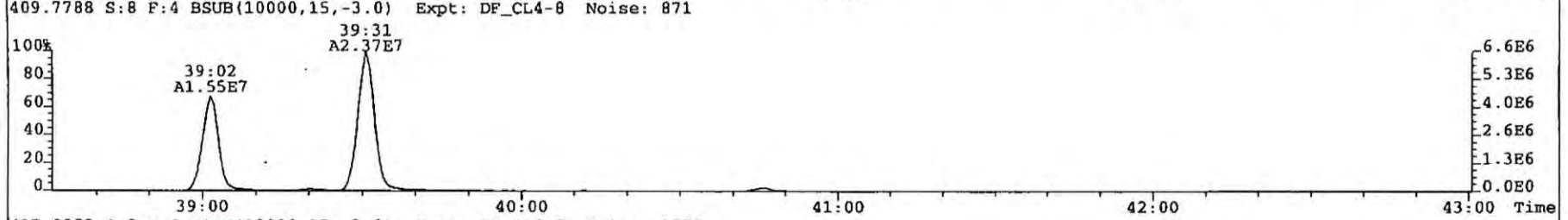
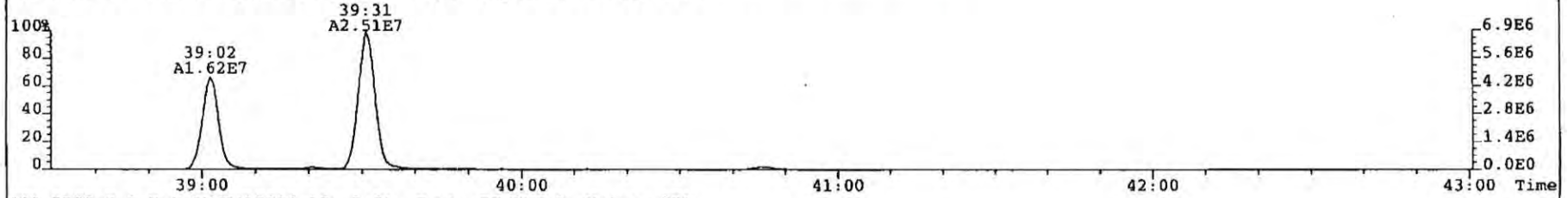
409.7974 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



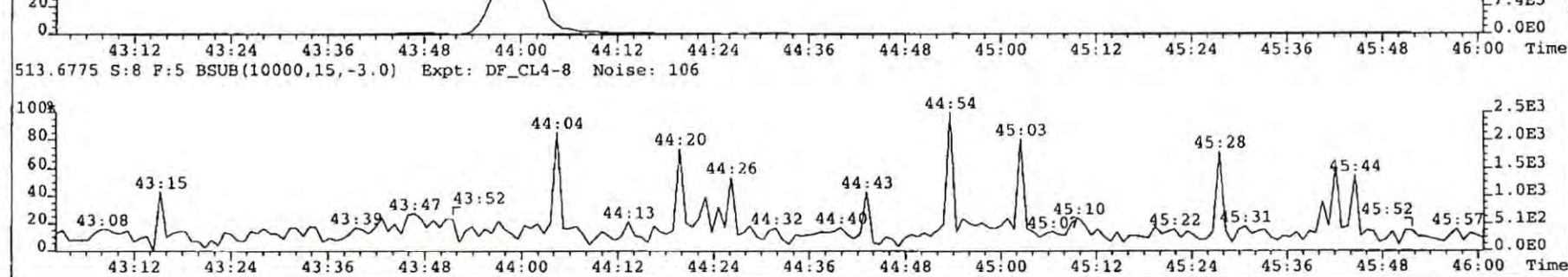
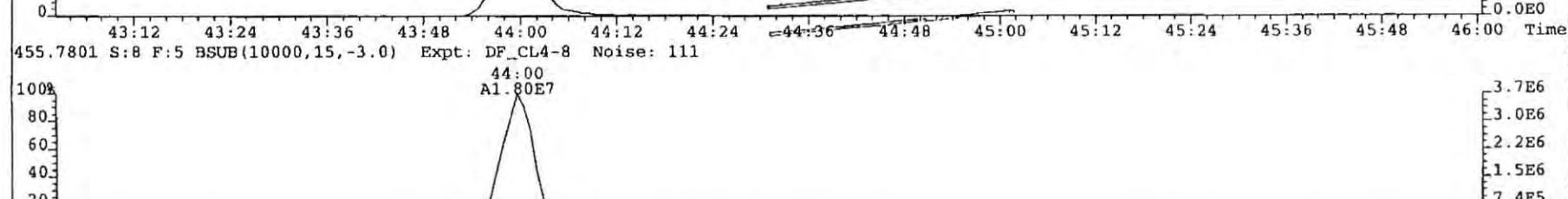
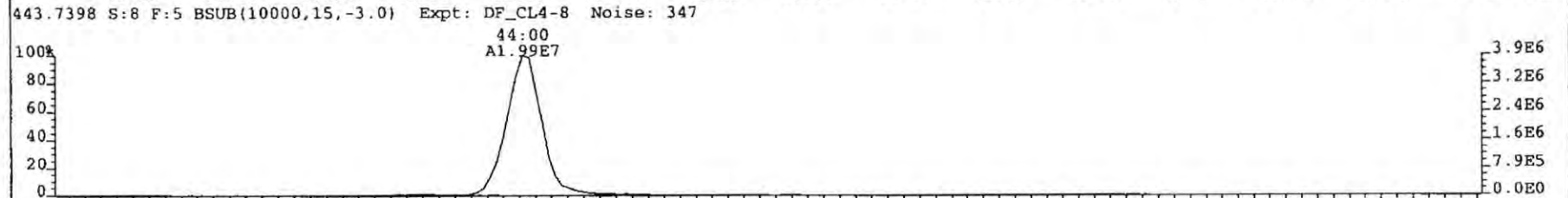
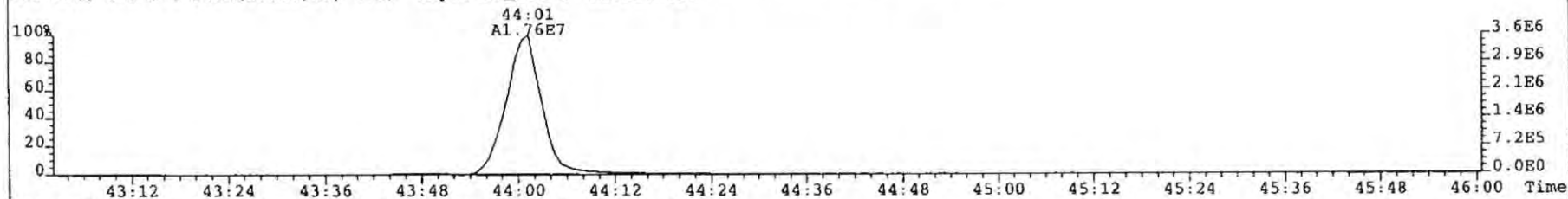
File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
373.8207 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1365



File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
407.7818 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1178



File: 090311P2 Acq: 11-MAR-2009 22:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 8 Text: P1158_6630_004 PO-BA-27B-SS-A-090226 10.16g Vial# 96 File Text: AP DB5
441.7428 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 482



FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

Contract No.: SAS No.:

Initial Calibration: MM1_DF_07012007A_25DE» ✓

GC Column ID: DB-5

VER Data Filename: 090311P2 S#1 Analysis Date: 11-MAR-09 Time: 16:29:05 ✓

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass ✓	CONC. FOUND	CONC. RANGE (3) (ng/mL) ✓
2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	10.6	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.65	1.32-1.78	y	52.9	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	53.4	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	53.2	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	53.8	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	0.88-1.20	y	52.3	43.0 - 58.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	105.3	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	10.6	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	54.3	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	54.3	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	51.5	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	51.3	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	51.2	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	52.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.05	0.88-1.20	y	50.5	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	51.6	43.0 - 58.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	101.9	63.0 - 159.0

Analyst: M. Zeller

Date: 2/24/09

(1) See Table 9, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

24 March 09

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

Contract No.: SAS No.:

Initial Calibration: MM1_DF_07012007A_25DE ✓

GC Column ID: DB-5

VER Data Filename: 090311P2 S#1 Analysis Date: 11-MAR-09 Time: 16:29:05 ✓

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.81	0.65-0.89	Y	102.6	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.64	1.32-1.78	Y	102.8	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	Y	97.4	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	Y	96.8	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.28	1.05-1.43	Y	99.3	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	Y	109.6	72.0 - 138.0
13C-OCDD	M+2/M+4	0.88	0.76-1.02	Y	214.8	96.0 - 415.0
13C-2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	Y	100.5	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	Y	104.8	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	Y	102.8	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M+2/M+4	0.54	0.43-0.59	Y	103.7	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M+2/M+4	0.53	0.43-0.59	Y	107.5	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M+2/M+4	0.54	0.43-0.59	Y	105.0	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M+2/M+4	0.53	0.43-0.59	Y	109.3	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.46	0.37-0.51	Y	111.7	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.45	0.37-0.51	Y	119.3	77.0 - 129.0
13C-OCDF	M+2/M+4	0.90	0.76-1.02	Y	219.2	96.0 - 415.0
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.2	7.9 - 12.7
13C-1,2,3,4,7-PeCDD	M+2/M+4	1.65	1.32-1.78	Y	104.6	70.0 - 130.0
13C-1,2,3,4,6-PeCDF	M+2/M+4	1.58	1.32-1.78	Y	97.3	70.0 - 130.0
13C-1,2,3,4,6,9-HxCDF	M+2/M+4	0.54	0.43-0.59	Y	100.7	70.0 - 130.0
13C-1,2,3,4,6,8,9-HpCDF	M+2/M+4	0.46	0.37-0.51	Y	112.7	70.0 - 130.0

Analyst: *MM*

Date: *24/3/09*

- (1) See Table 8, Method 1613, for m/z specifications.
- (2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (3) Contract-required concentration range, as specified in Table 6, Method 1613
- (4) No ion abundance ratio; report concentration found.

1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: SIL7-25-4
Lab ID: CS3
Sample text: CS3 SIL7-25-4

Filename: 090311P2
GC column ID: db-5

S: 1 Vial: 8 Acq: 11-MAR-09 16:29:05
Cal: MM1_DF_07012007A_25DEC08wt/Vol: 1.000
Stds: JS (split adj.): 100 CS/SS: 10.0 ES: 100

37C1-2,3,7,8-TCDD
at 10/18
CS3
24 March 09

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	5.59e+06	0.82 y	26:57	1.08	10.6	914	2.5	0.0343	-
Ax	1,2,3,7,8-PeCDD	2.16e+07	1.65 y	32:35	1.00	52.9	2558	2.5	0.147	-
Ax	1,2,3,4,7,8-HxCDD	2.06e+07	1.25 y	36:33	1.08	53.4	3466	2.5	0.169	-
Ax	1,2,3,6,7,8-HxCDD	2.01e+07	1.25 y	36:40	0.94	53.2	3466	2.5	0.194	-
Ax	1,2,3,7,8,9-HxCDD	2.16e+07	1.25 y	36:59	0.99	53.8	3466	2.5	0.200	-
Ax	1,2,3,4,6,7,8-HpCDD	1.85e+07	1.08 y	40:12	0.97	52.3	6564	2.5	0.408	-
Ax	OCDD	2.66e+07	0.90 y	43:47	1.06	105	4270	2.5	0.414	-
Ax2	OCDD-a	1.52e+06	2.64 y	43:46	0.06	101	1820	2.5	2.95	-
Ax	2,3,7,8-TCDF	8.87e+06	0.79 y	26:00	1.05	10.6	1355	2.5	0.0330	-
Ax	1,2,3,7,8-PeCDF	3.99e+07	1.63 y	31:04	0.98	54.3	4242	2.5	0.143	-
Ax	2,3,4,7,8-PeCDF	4.17e+07	1.62 y	32:13	1.01	54.3	4242	2.5	0.131	-
Ax	1,2,3,4,7,8-HxCDF	3.23e+07	1.26 y	35:35	1.22	51.5	5249	2.5	0.105	-
Ax	1,2,3,6,7,8-HxCDF	3.80e+07	1.26 y	35:43	1.15	51.3	5249	2.5	0.0962	-
Ax	2,3,4,6,7,8-HxCDF	3.30e+07	1.26 y	36:23	1.13	51.2	5249	2.5	0.118	-
Ax	1,2,3,7,8,9-HxCDF	3.01e+07	1.27 y	37:21	1.12	52.4	5249	2.5	0.143	-
Ax	1,2,3,4,6,7,8-HpCDF	2.99e+07	1.05 y	39:02	1.37	50.5	5268	2.5	0.117	-
Ax	1,2,3,4,7,8,9-HpCDF	2.53e+07	1.05 y	40:46	1.32	51.6	5268	2.5	0.175	-
Ax	OCDF	3.67e+07	0.90 y	44:01	0.94	102	6074	2.5	0.442	-
Ax2	OCDF-a	2.01e+06	2.61 y	44:00	0.05	99.5	1237	2.5	1.60	-
ES	13C-2,3,7,8-TCDD	4.86e+07	0.81 y	26:55	0.99	103	2046	2.5	0.0872	103
ES	13C-1,2,3,7,8-PeCDD	4.09e+07	1.64 y	32:34	0.83	103	5158	2.5	0.261	103
ES	13C-1,2,3,4,7,8-HxCDD	3.55e+07	1.24 y	36:33	1.08	97.4	8768	2.5	0.500	97.4
ES	13C-1,2,3,6,7,8-HxCDD	3.99e+07	1.29 y	36:39	1.23	96.8	8768	2.5	0.442	96.8
ES	13C-1,2,3,7,8,9-HxCDD	4.05e+07	1.28 y	36:58	1.21	99.3	8768	2.5	0.447	99.3
ES	13C-1,2,3,4,6,7,8-HpCDD	3.63e+07	1.07 y	40:11	0.98	110	10776	2.5	0.676	110
ES	13C-OCDD	4.77e+07	0.88 y	43:46	0.66	215	7816	2.5	0.732	107
ES	13C-2,3,7,8-TCDF	8.01e+07	0.80 y	25:59	0.96	100	1118	2.5	0.0302	100
ES	13C-1,2,3,7,8-PeCDF	7.45e+07	1.62 y	31:03	0.85	105	7460	2.5	0.226	105
ES	13C-2,3,4,7,8-PeCDF	7.57e+07	1.59 y	32:12	0.88	103	7460	2.5	0.218	103
ES	13C-1,2,3,4,7,8-HxCDF	5.15e+07	0.54 y	35:34	1.47	104	18686	2.5	0.782	104
ES	13C-1,2,3,6,7,8-HxCDF	6.43e+07	0.53 y	35:42	1.78	108	18686	2.5	0.650	108
ES	13C-2,3,4,6,7,8-HxCDF	5.69e+07	0.54 y	36:22	1.61	105	18686	2.5	0.717	105
ES	13C-1,2,3,7,8,9-HxCDF	5.16e+07	0.53 y	37:20	1.40	109	18686	2.5	0.824	109
ES	13C-1,2,3,4,6,7,8-HpCDF	4.34e+07	0.46 y	39:01	1.16	111	17697	2.5	0.942	111
ES	13C-1,2,3,4,7,8,9-HpCDF	3.72e+07	0.45 y	40:45	0.92	120	17697	2.5	1.19	120
ES	13C-OCDF	7.66e+07	0.90 y	44:00	1.04	219	10303	2.5	0.613	110
CS	37C1-2,3,7,8-TCDD	5.03e+06		26:57	0.99	10.7			0.0932	107
CS	13C-1,2,3,4,7-PeCDD	3.84e+07	1.65 y	32:03	0.77	105	5158	2.5	0.283	105
CS	13C-1,2,3,4,6-PeCDF	6.45e+07	1.58 y	30:31	0.79	97.4	7460	2.5	0.243	97.4
CS	13C-1,2,3,4,6,9-HxCDF	4.79e+07	0.54 y	36:01	1.41	101	18686	2.5	0.817	101
CS	13C-1,2,3,4,6,8,9-HpCDF	3.45e+07	0.46 y	39:30	0.91	113	17697	2.5	1.20	113
NA	n/a	*	* n	NotF*	Div0	*	264	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	4.77e+07	0.82 y	26:14	-	136	2046	2.5	-	-
JS	13C-1,2,3,4-TCDF	8.34e+07	0.79 y	24:32	-	150	1118	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.68e+07	1.28 y	36:51	-	77.4	6305	2.5	-	-

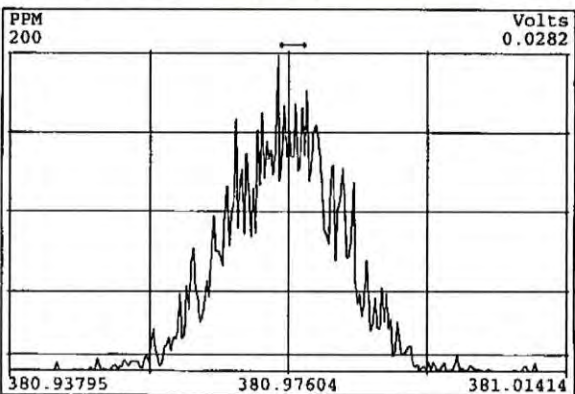
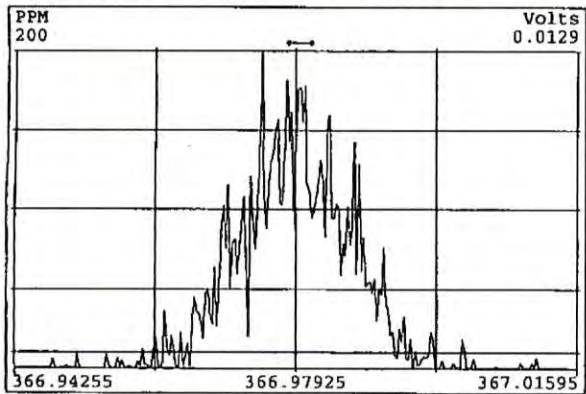
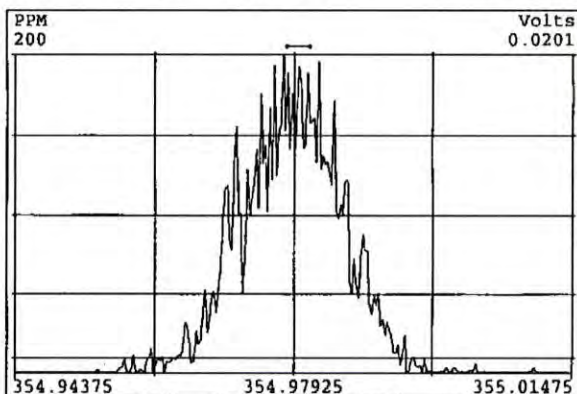
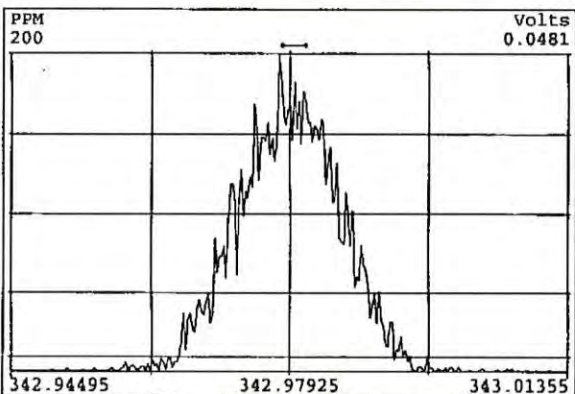
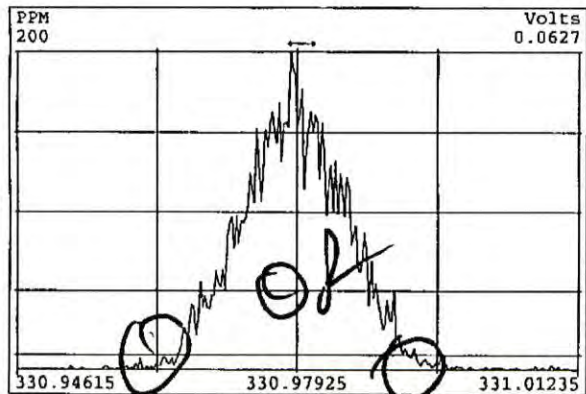
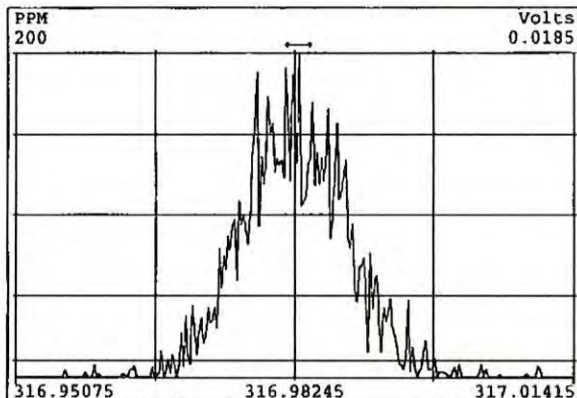
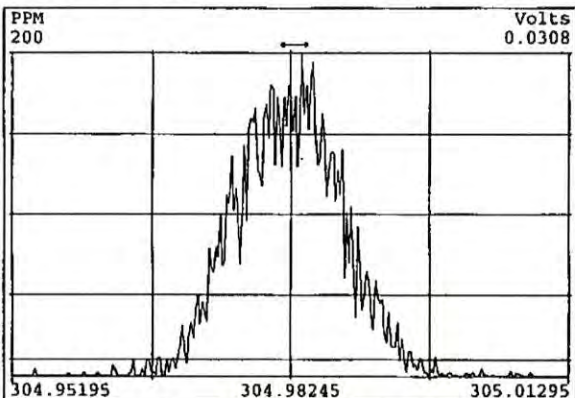
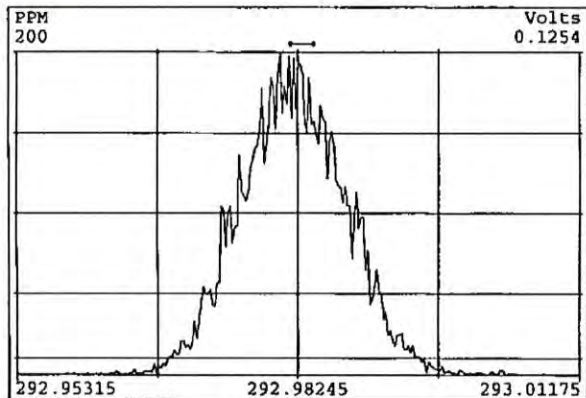
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Date: [Signature]

SS	37Cl-2,3,7,8-TCDD	5.03e+06		26:57	1.00	10.3			0.0883	103
SS	13C-1,2,3,4,7-PeCDD	3.84e+07	1.65 y	32:03	0.93	101	5158	2.5	0.318	101
SS	13C-1,2,3,4,6-PeCDF	6.45e+07	1.58 y	30:31	0.94	92.4	7460	2.5	0.264	92.4
SS	13C-1,2,3,4,6,9-HxCDF	4.79e+07	0.54 y	36:01	0.80	92.9	18686	2.5	0.492	92.9
SS	13C-1,2,3,4,6,8,9-HpCDF	3.45e+07	0.46 y	39:30	0.79	101	17697	2.5	0.676	101
SBS	2,4,6,8-TCDF	*	* n	NotF>	1.05	*	1355	2.5	0.0330	-
Ay	1,3,6,8-TCDD	*	* n	NotF>	1.08	*	914	2.5	0.0343	-
Ay	1,2,3,9-TCDD	*	* n	NotF>	1.08	*	914	2.5	0.0343	-
Ay	1,2,8,9-TCDD	*	* n	NotF>	1.08	*	914	2.5	0.0343	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF>	1.00	*	2558	2.5	0.147	-
Ay	1,2,3,8,9-PeCDD	*	* n	NotF>	1.00	*	2558	2.5	0.147	-
Ay	1,2,4,6,7,9-HxCDD	*	* n	NotF>	1.00	*	3466	2.5	0.188	-
Ay	1,2,3,4,6,7,9-HpCDD	1.61e+05	0.87 y	39:21	0.97	0.456	6564	2.5	0.408	-
Ay	1,3,6,8-TCDF	*	* n	NotF>	1.05	*	1355	2.5	0.0330	-
Ay	2,3,4,8-TCDF	8.87e+06	0.79 y	26:00	1.05	10.6	1355	2.5	0.0330	-
Ay	1,2,8,9-TCDF	*	* n	NotF>	1.05	*	1355	2.5	0.0330	-
Ay	1,3,4,6,8-PeCDF	*	* n	NotF>	1.05	*	1161	2.5	0.0283	-
Ay	1,2,3,8,9-PeCDF	3.64e+05	1.68 y	33:20	1.00	0.485	4242	2.5	0.137	-
Ay	1,2,3,4,6,8-HxCDF	*	* n	NotF>	1.15	*	5249	2.5	0.114	-
Tot	Total Tetra-Dioxins	5.59e+06	0.82 y	26:57	1.08	10.6	914	2.5	0.0343	-
Tot	Total Penta-Dioxins	2.16e+07	1.65 y	32:35	1.00	52.9	2558	2.5	0.147	-
Tot	Total Hexa-Dioxins	6.23e+07	1.25 y	36:33	1.00	160	3466	2.5	0.188	-
Tot	Total Hepta-Dioxins	1.85e+07	1.08 y	40:12	0.97	52.3	6564	2.5	0.408	-
Tot	Total Tetra-Furans	9.07e+06	0.67 y	22:32	1.05	10.8	1355	2.5	0.0330	-
Tot	Total Penta-Furans	8.26e+07	1.63 y	31:04	1.00	110	4242	2.5	0.137	-
Tot	Total Hexa-Furans	1.33e+08	1.26 y	35:35	1.15	206	5249	2.5	0.114	-
Tot	Total Hepta-Furans	5.55e+07	1.05 y	39:02	1.35	103	5268	2.5	0.143	-
Tot	TCDD EMPC	5.59e+06	0.82 y	26:57	1.08	10.6	914	2.5	0.0343	-
Tot	PeCDD EMPC	2.17e+07	3.52 y	31:19	1.00	53.1	2558	2.5	0.147	-
Tot	HxCDD EMPC	6.26e+07	1.25 y	36:33	1.00	161	3466	2.5	0.188	-
Tot	HpCDD EMPC	1.86e+07	0.87 y	39:21	0.97	52.8	6564	2.5	0.408	-
Tot	TCDF EMPC	9.14e+06	0.67 y	22:32	1.05	10.9	1355	2.5	0.0330	-
Tot	PeCDF EMPC	8.26e+07	1.63 y	31:04	1.00	110	4242	2.5	0.137	-
Tot	HxCDF EMPC	1.33e+08	1.26 y	35:35	1.15	206	5249	2.5	0.114	-
Tot	HpCDF EMPC	5.57e+07	1.05 y	39:02	1.35	103	5268	2.5	0.143	-
AS	13C-1,3,6,8-TCDD	5.16e+07	0.82 y	22:57	1.09	99.6	2046	2.5	0.0796	99.6
AS	13C-1,3,6,8-TCDF	9.08e+07	0.78 y	20:46	1.09	100	1118	2.5	0.0265	100
DPE	HxCDFPE	*		NotF>	-	*	-	-	-	-
DPE	HpCDFPE	*		NotF>	-	*	-	-	-	-
DPE	OCDFPE	*		NotF>	-	*	-	-	-	-
DPE	NCDPE	*		NotF>	-	*	-	-	-	-
DPE	DCDFPE	*		NotF>	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF>	-	*	-	-	-	-

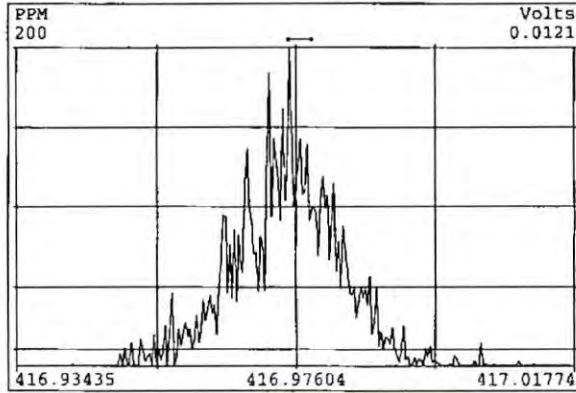
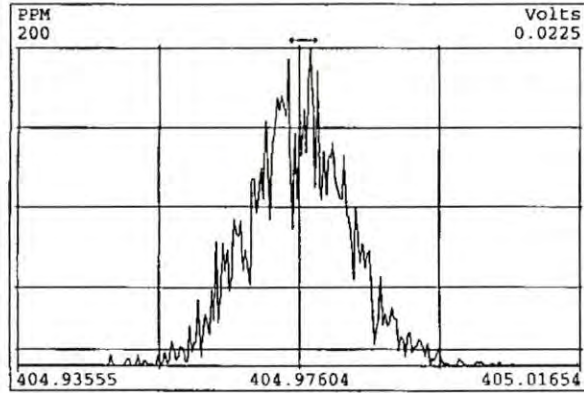
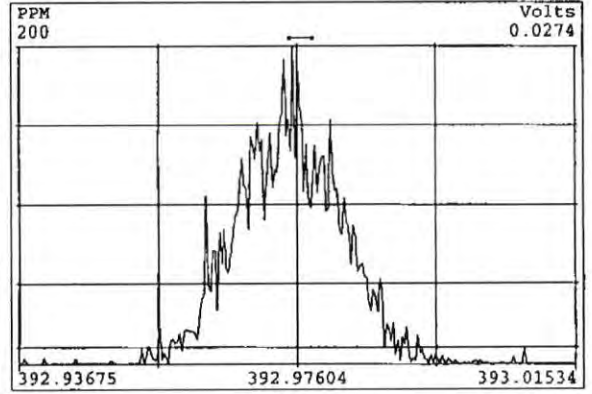
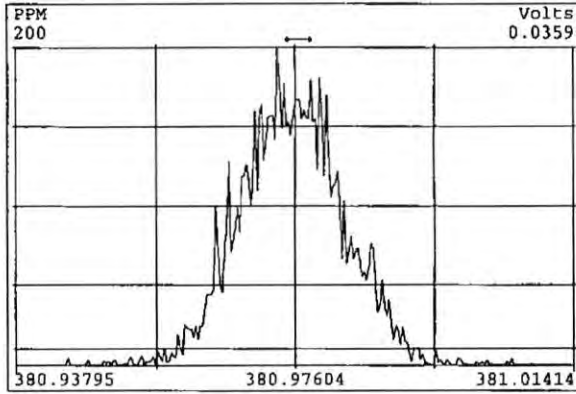
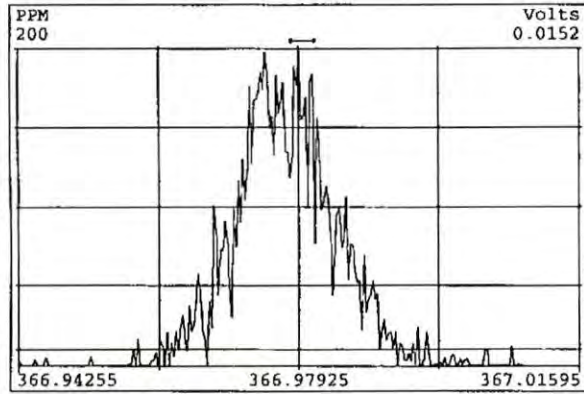
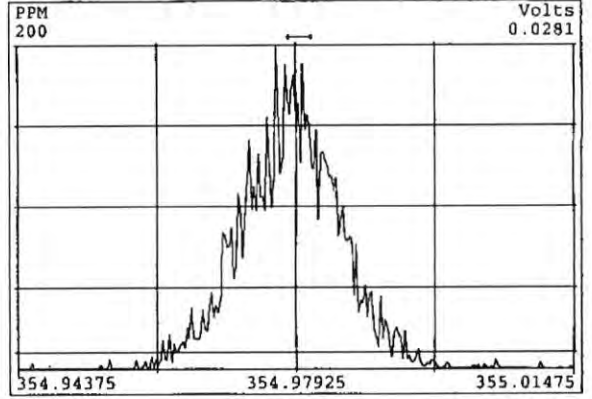
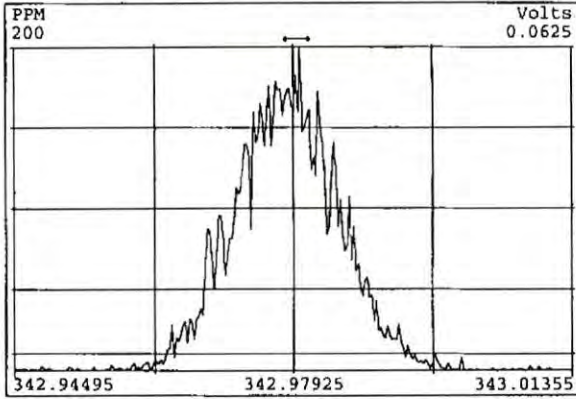
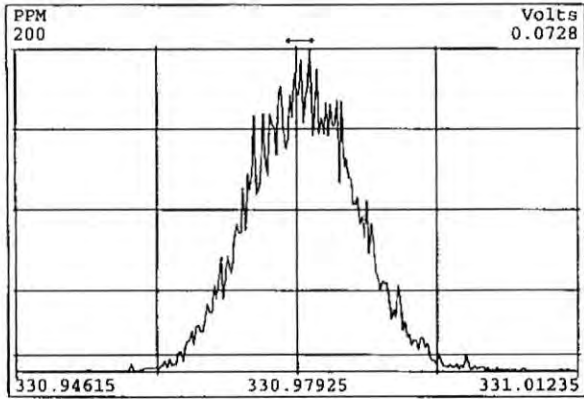
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of 24 Mech 05

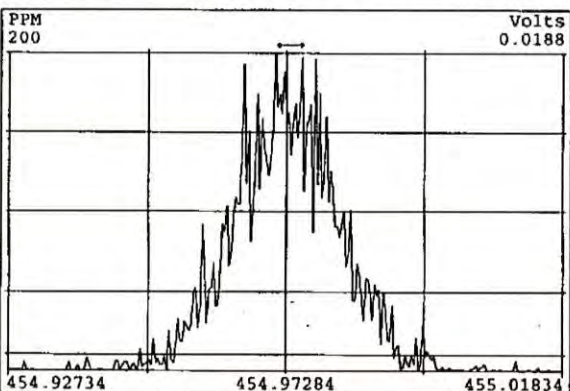
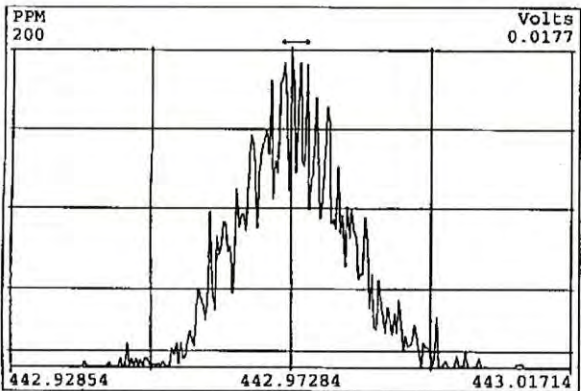
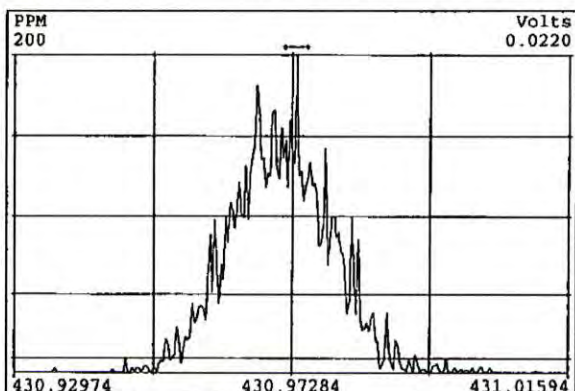
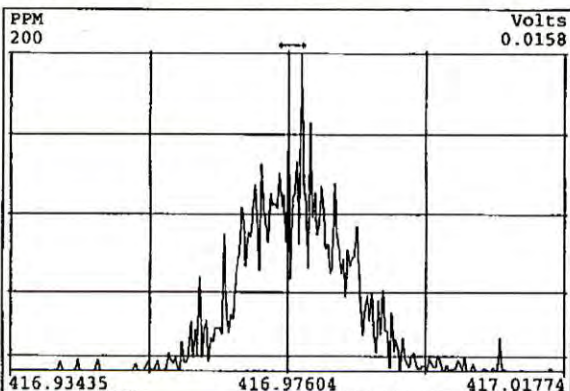
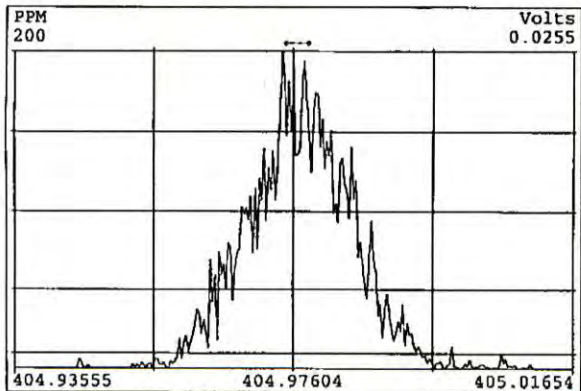
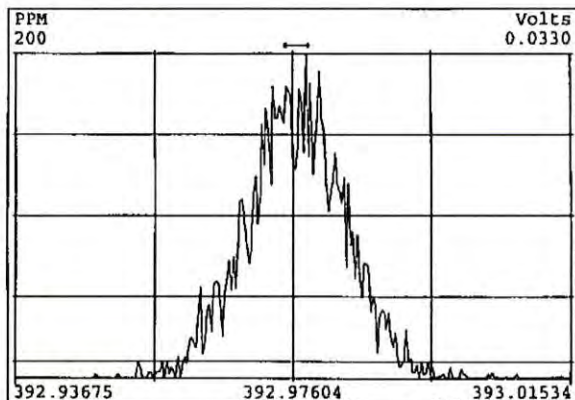
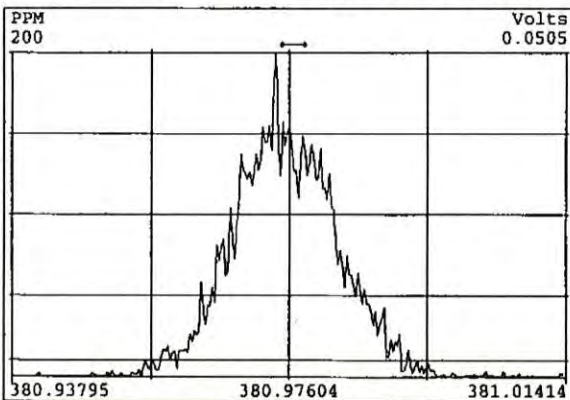
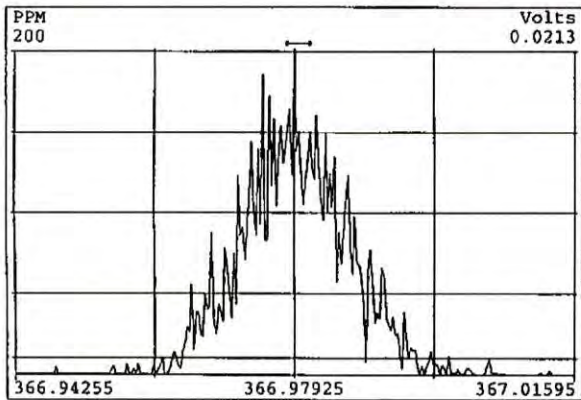
Peak Locate Examination: 11-MAR-2009:11:14 File: 090311P1
Experiment: DF_CL4-8 Function: 1 Reference: PFK2



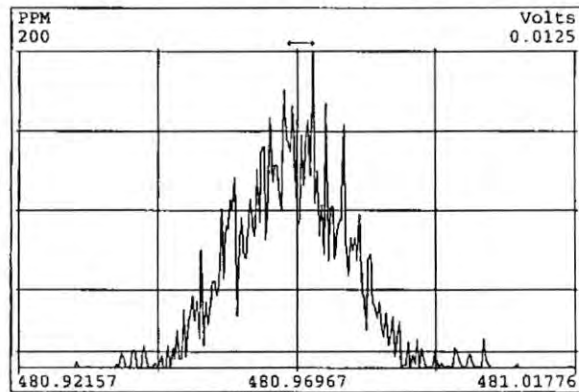
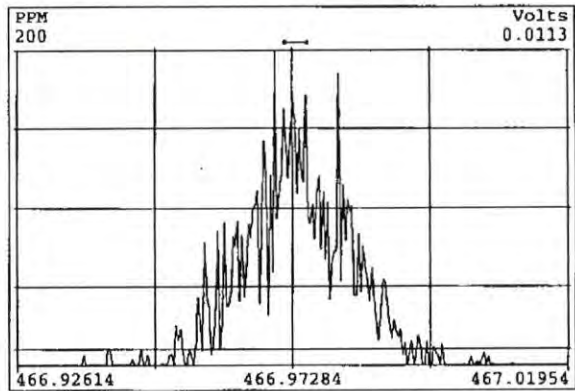
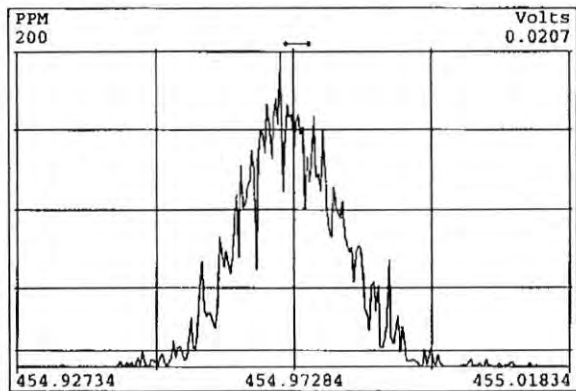
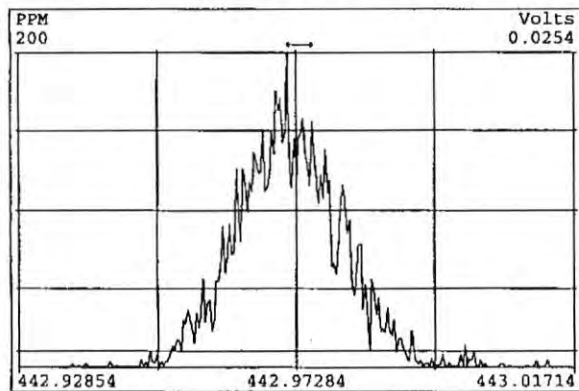
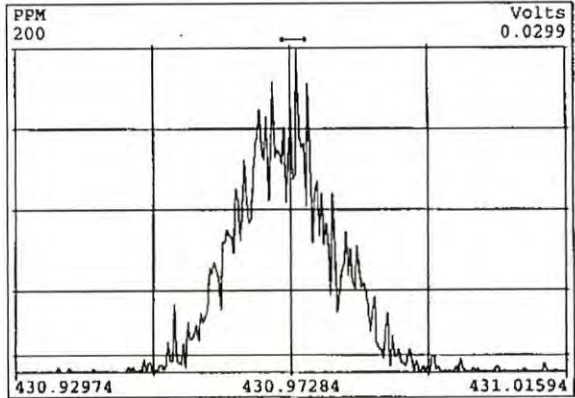
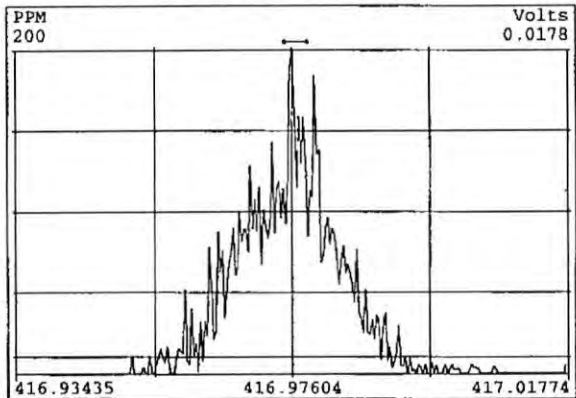
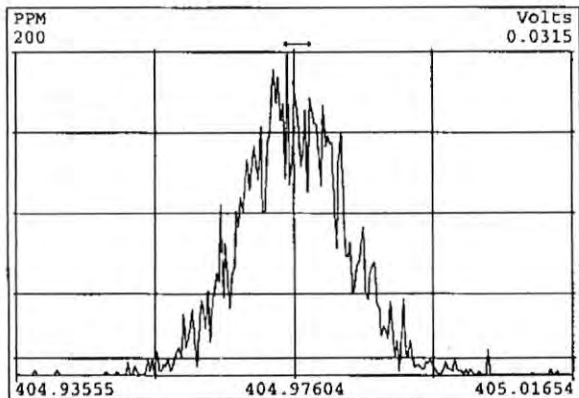
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Experiment: DF_CL4-8 Function: 2 Reference: PFK2



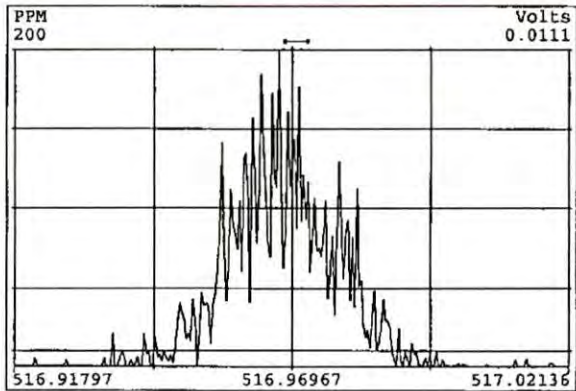
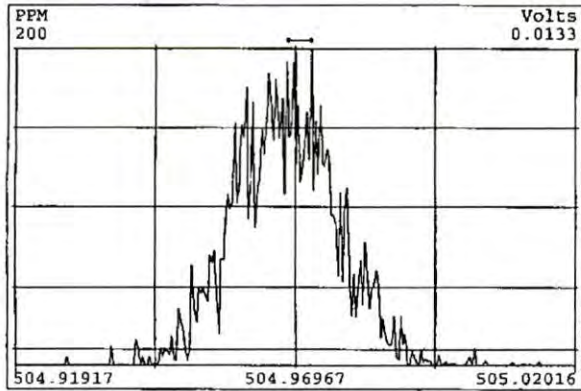
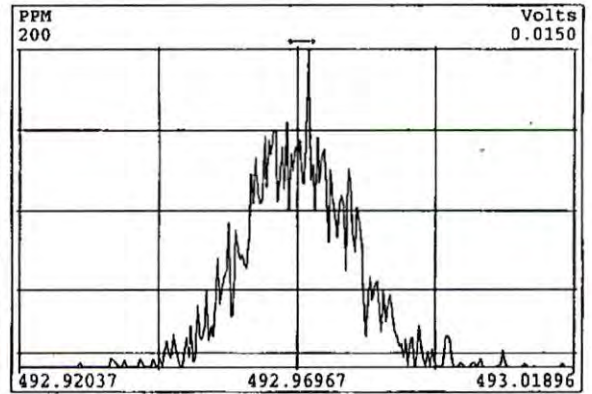
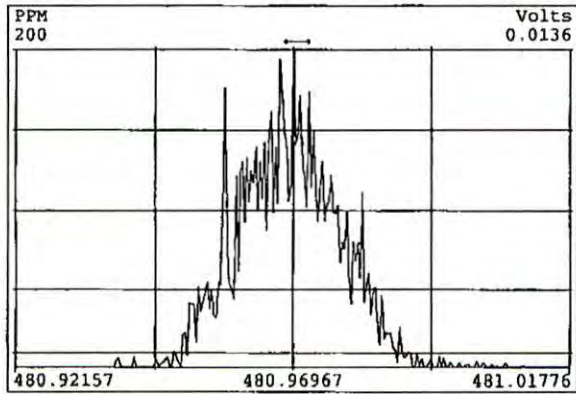
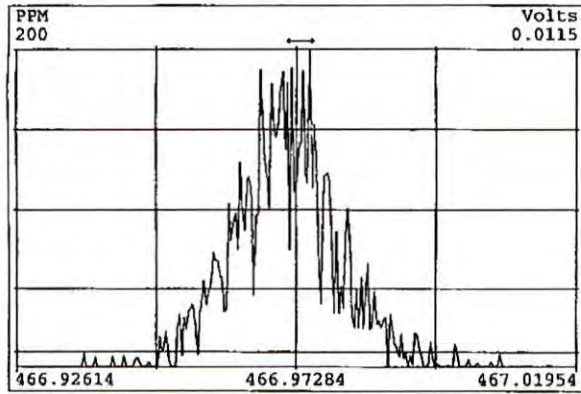
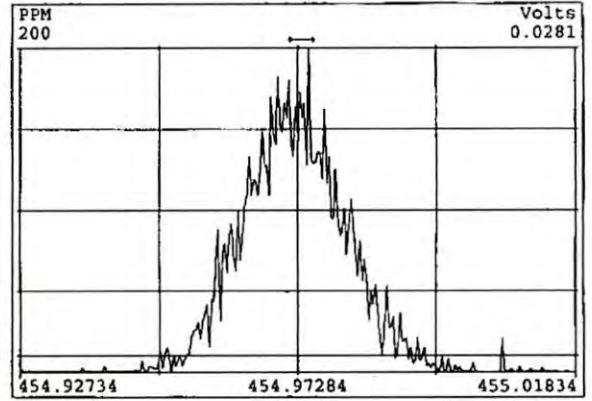
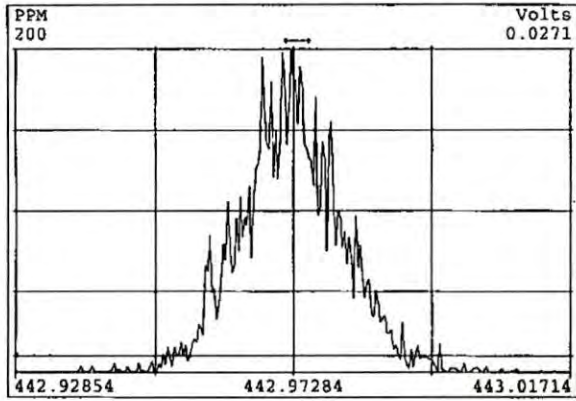
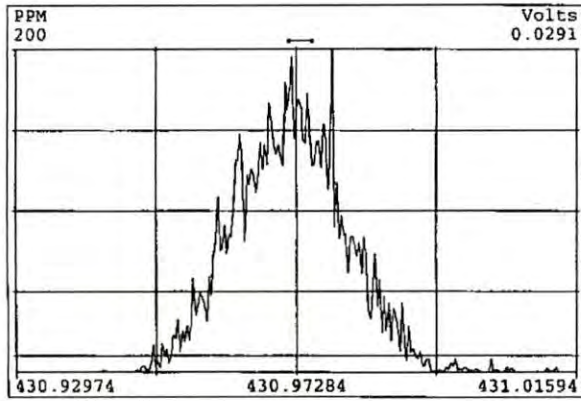
Peak Locate Examination: 11-MAR-2009:11:14 File: 090311P1
Experiment: DF_CL4-8 Function: 3 Reference: PFK2



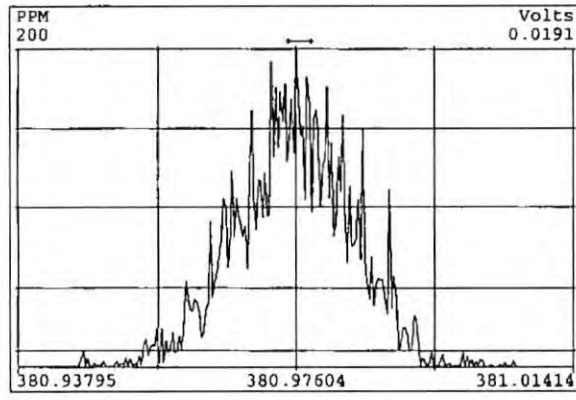
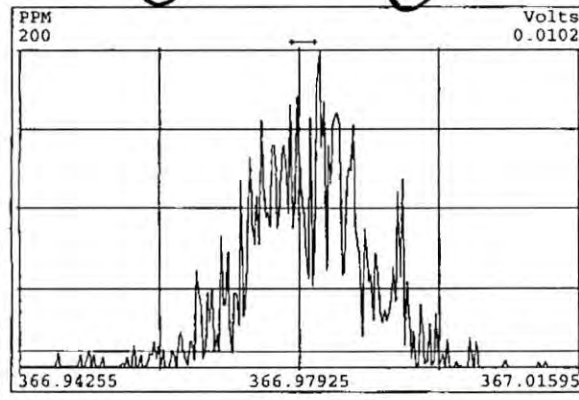
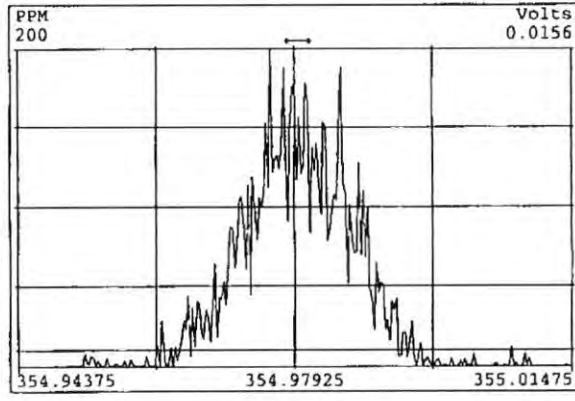
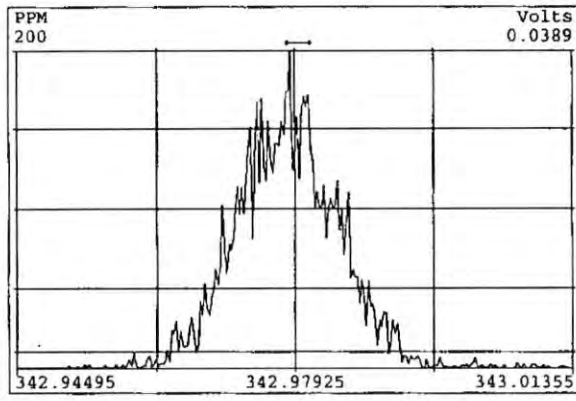
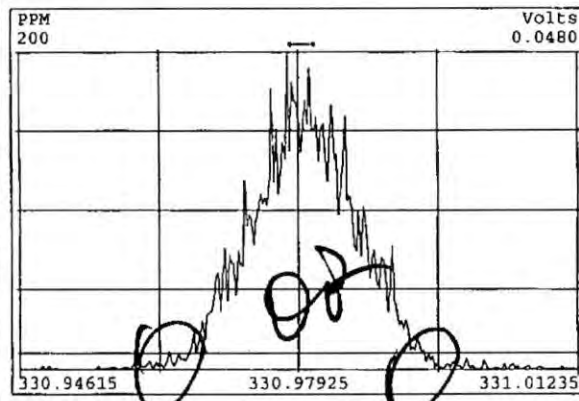
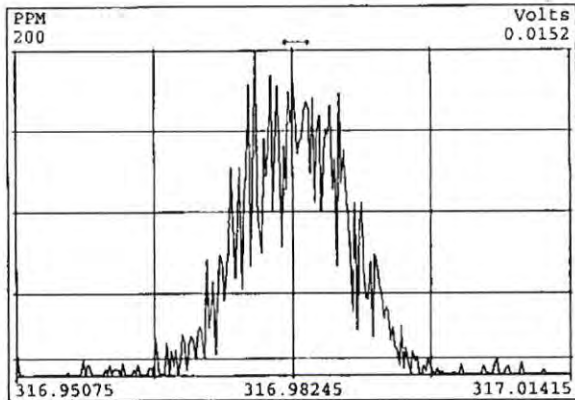
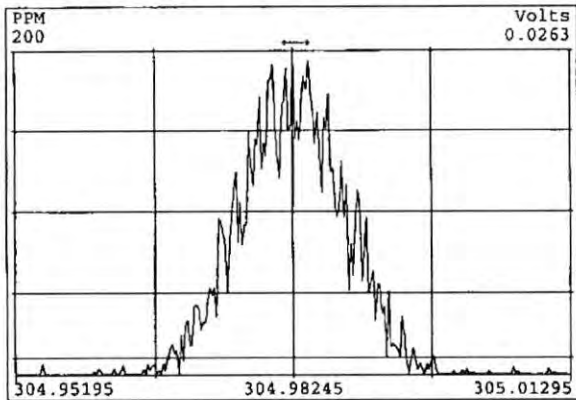
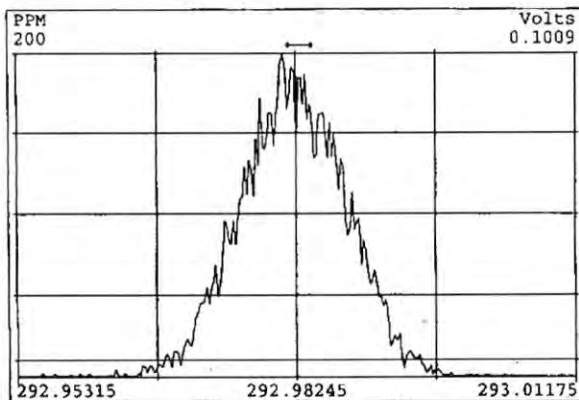
Peak Locate Examination:11-MAR-2009:11:15 File:090311P1
Experiment:DF_CL4-8 Function:4 Reference:PFK2



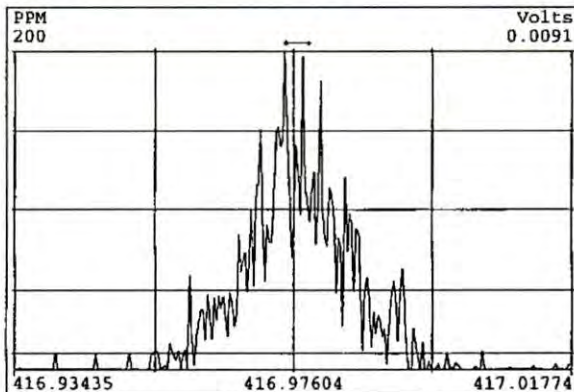
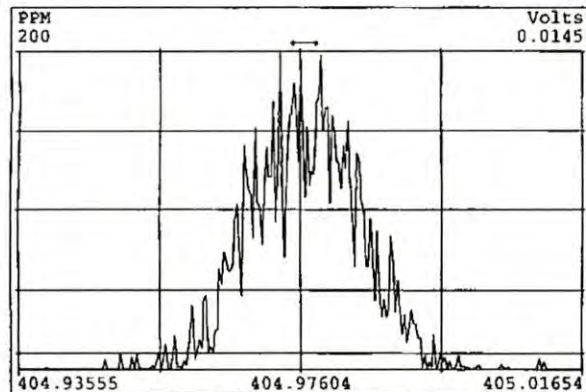
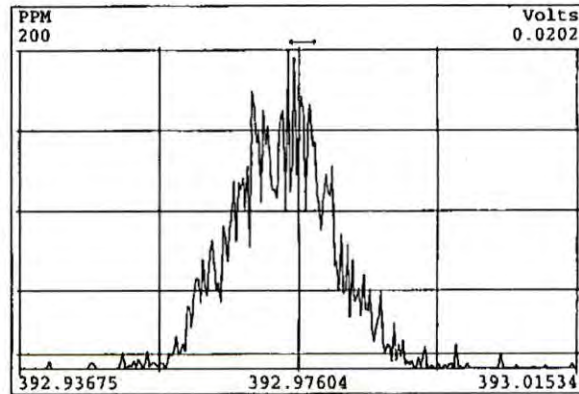
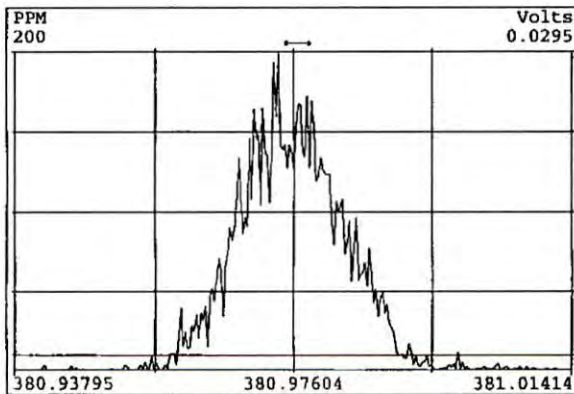
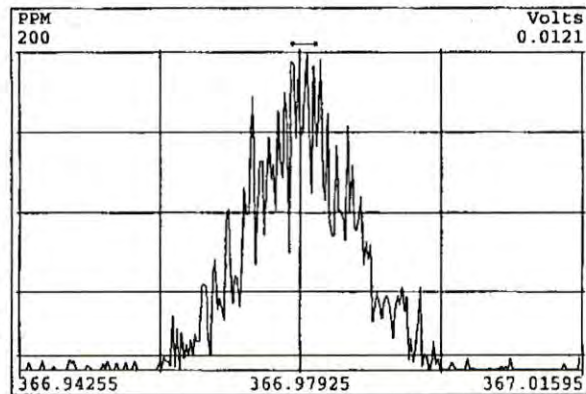
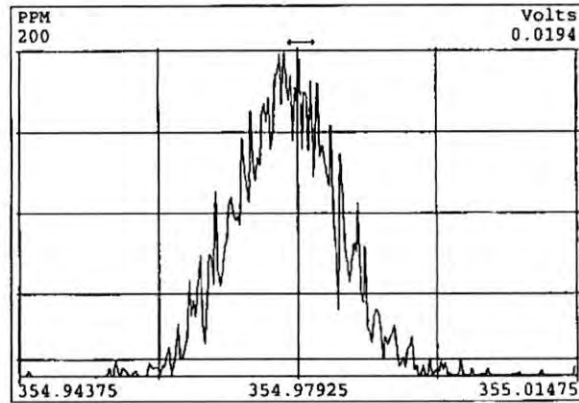
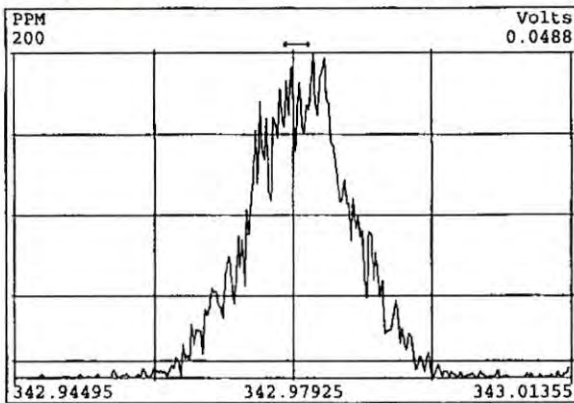
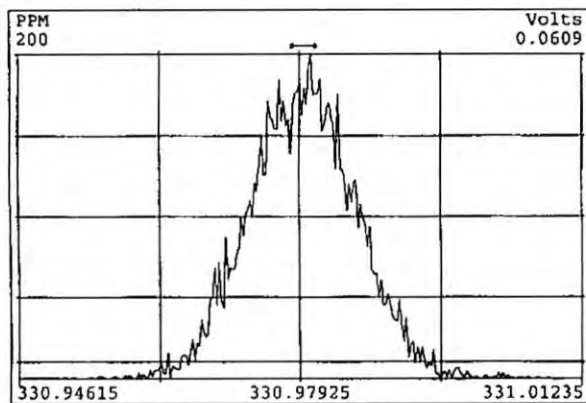
Peak Locate Examination:11-MAR-2009:11:15 File:090311P1
Experiment:DF_CL4-8 Function:5 Reference:PFK2



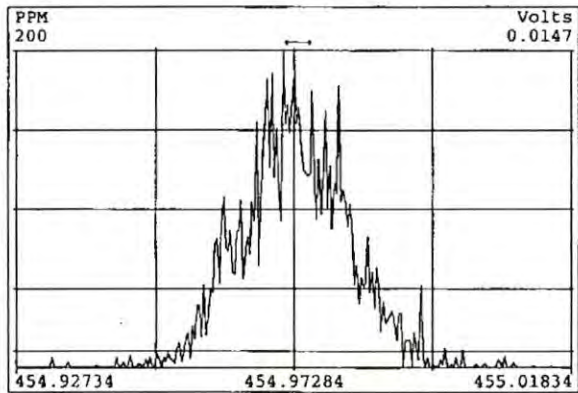
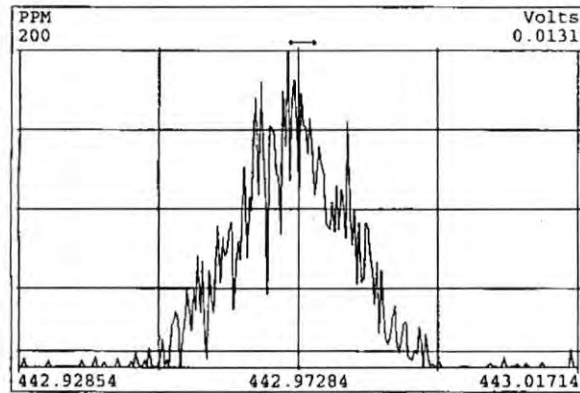
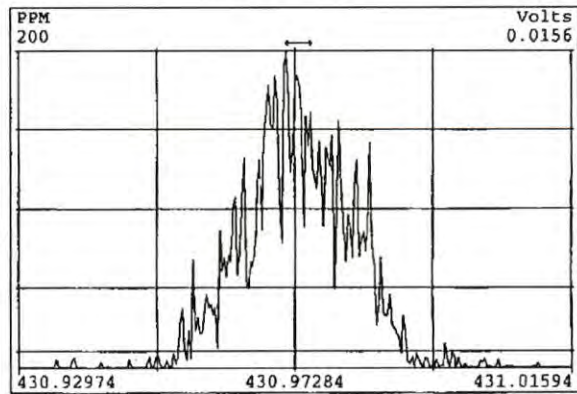
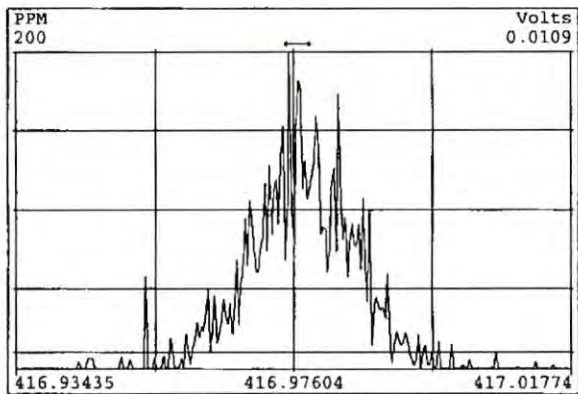
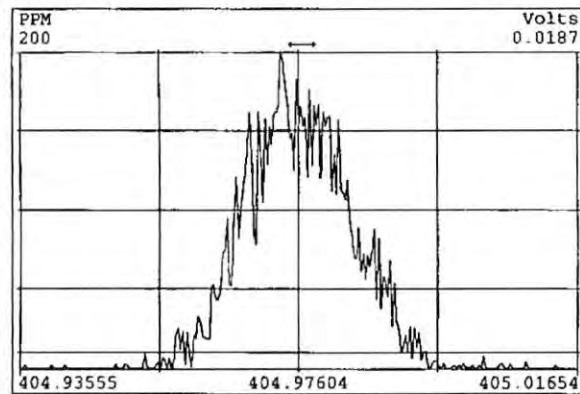
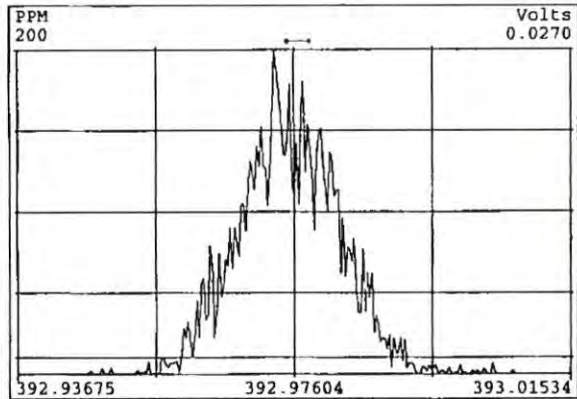
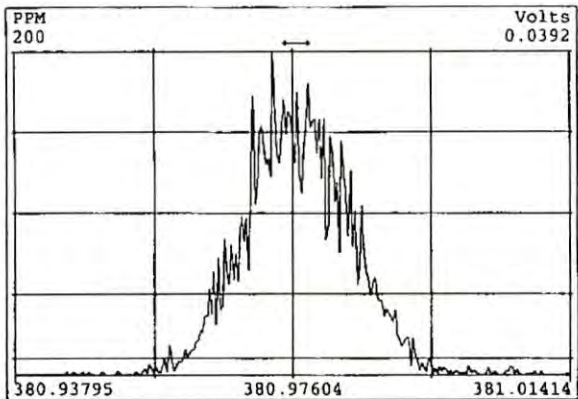
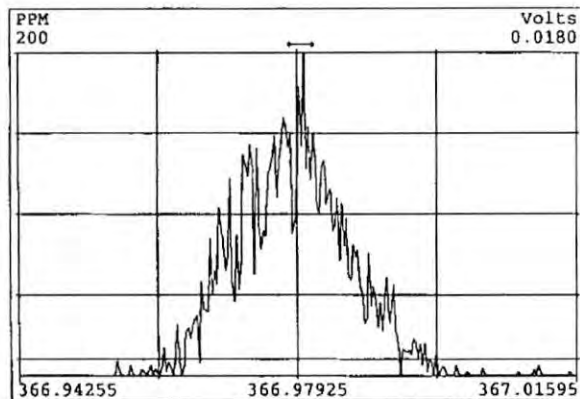
Peak Locate Examination: 11-MAR-2009:16:24 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:1 Reference:PFK2



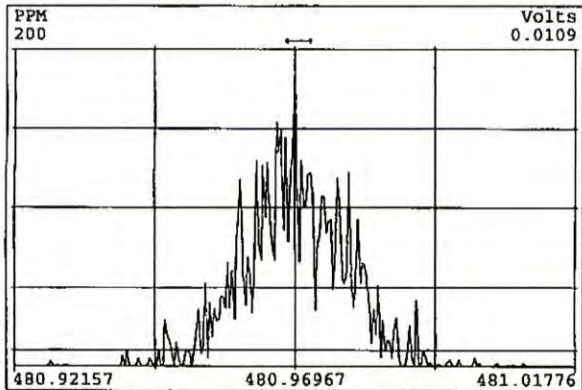
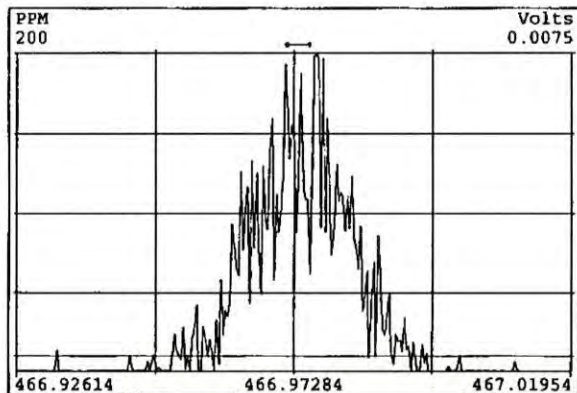
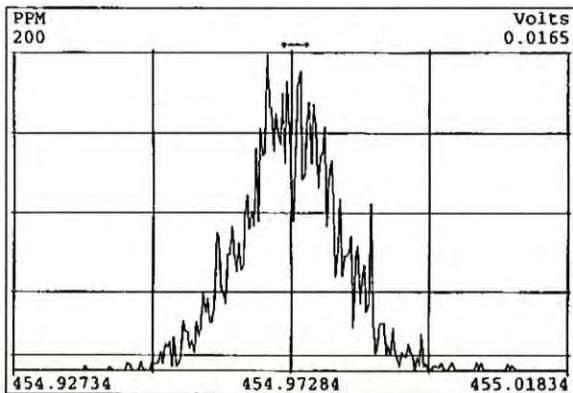
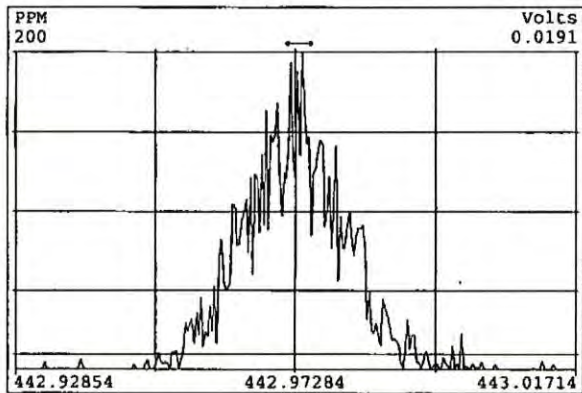
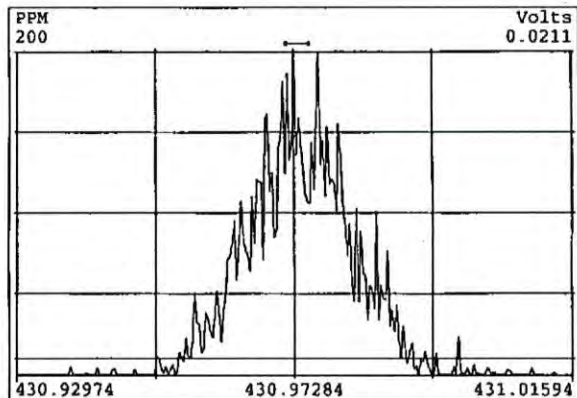
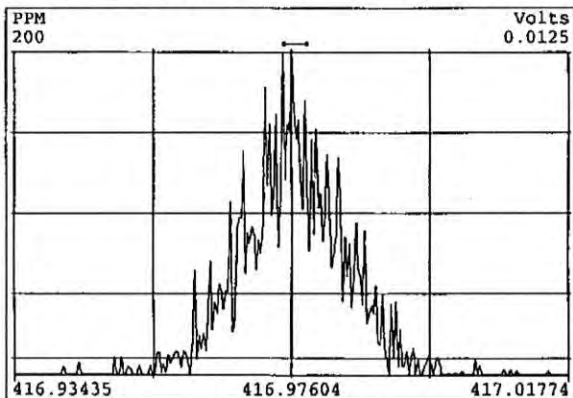
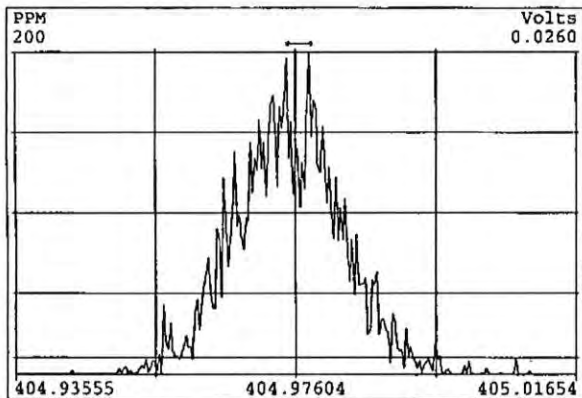
Peak Locate Examination:11-MAR-2009:16:25 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:2 Reference:PFK2



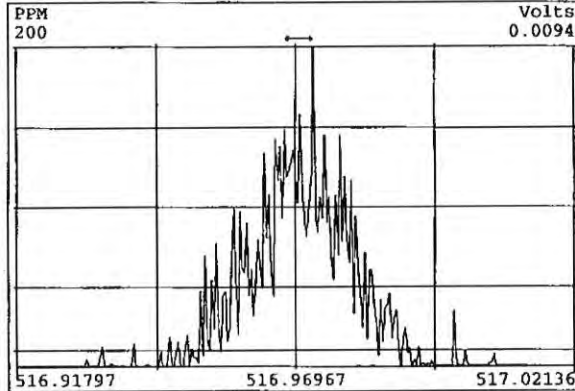
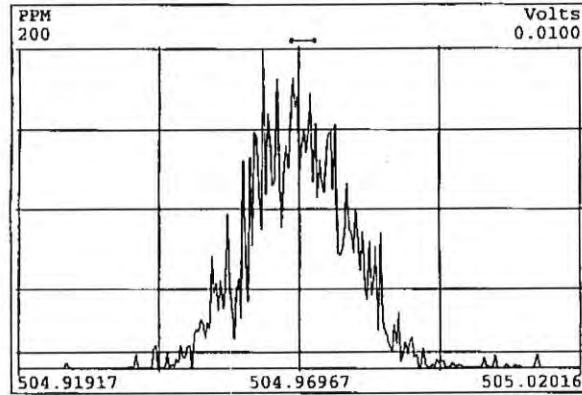
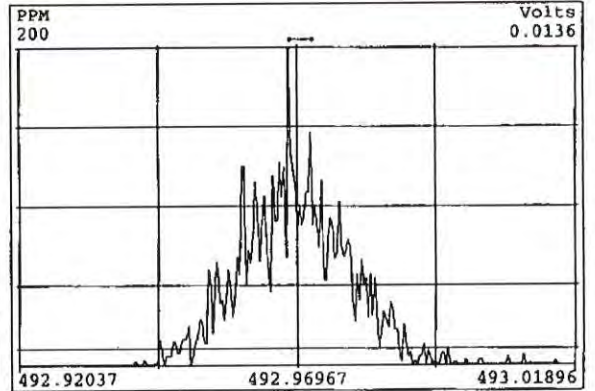
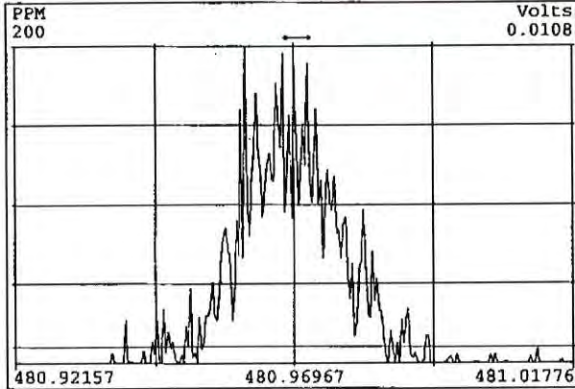
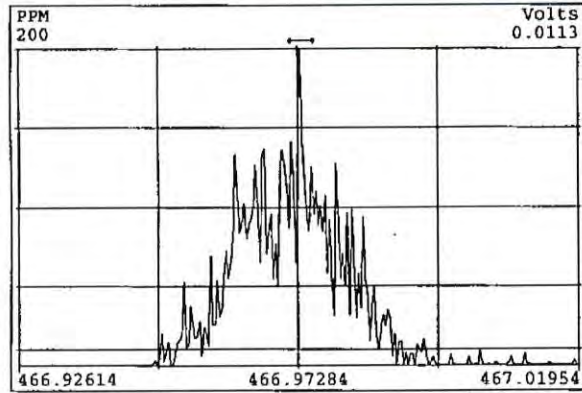
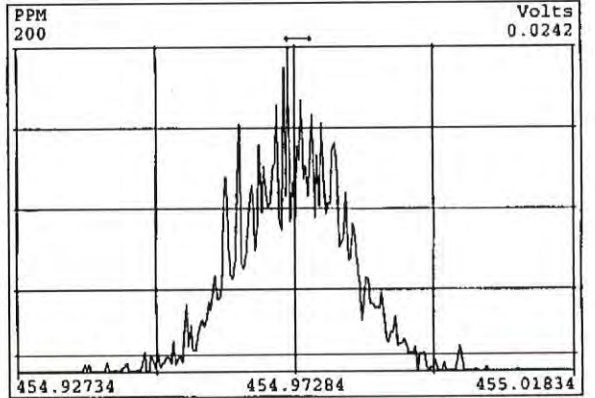
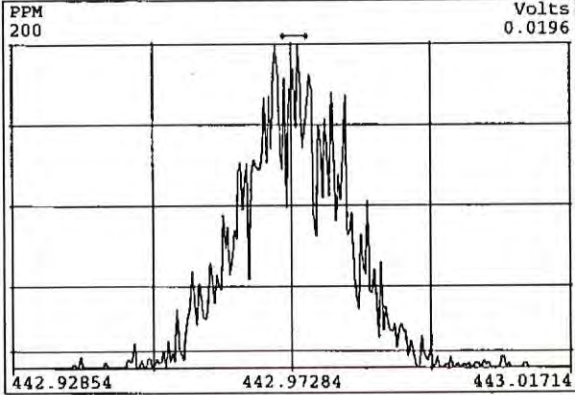
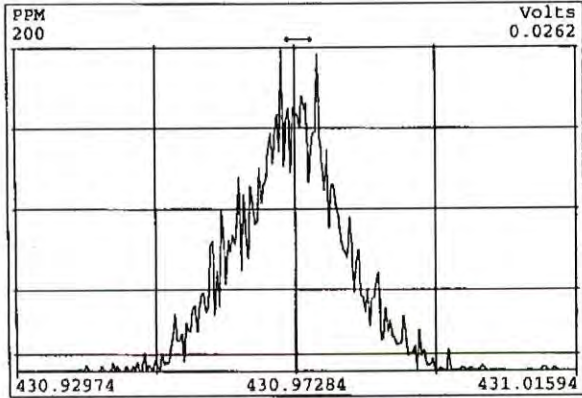
Peak Locate Examination: 11-MAR-2009:16:26 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:3 Reference:PFK2



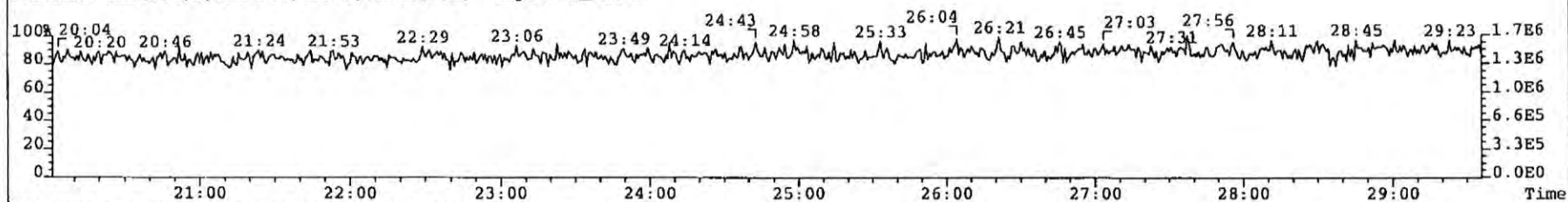
Peak Locate Examination: 11-MAR-2009:16:27 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:4 Reference:PFK2



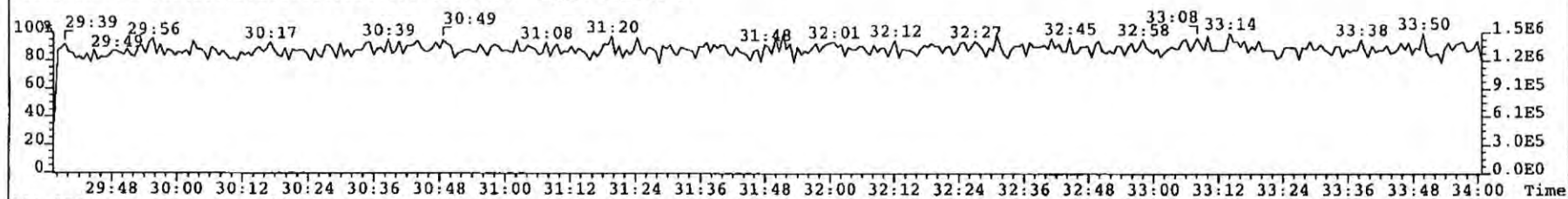
Peak Locate Examination: 11-MAR-2009:16:28 File: MM1_RES_CHECK
Experiment: DF_CL4-8 Function: 5 Reference: PFK2



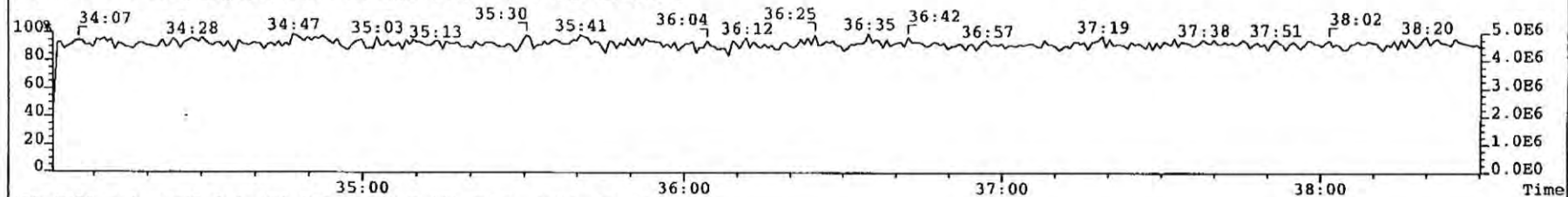
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



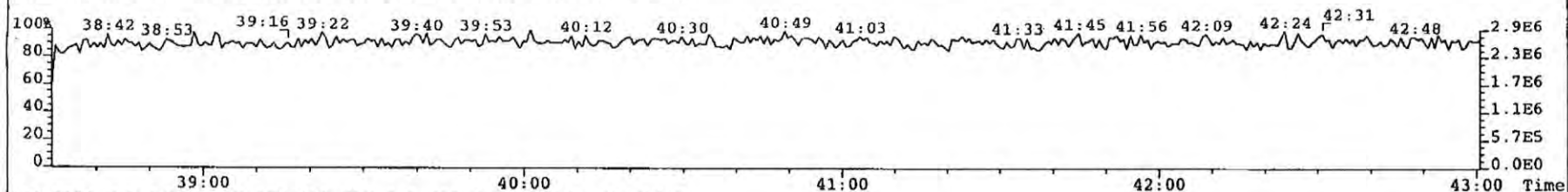
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



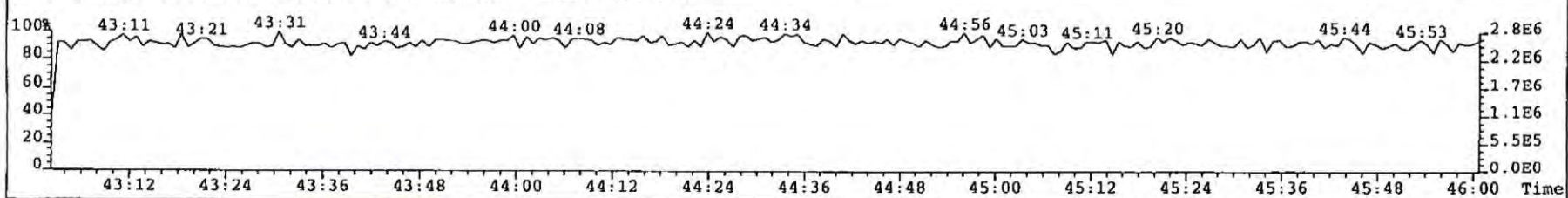
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



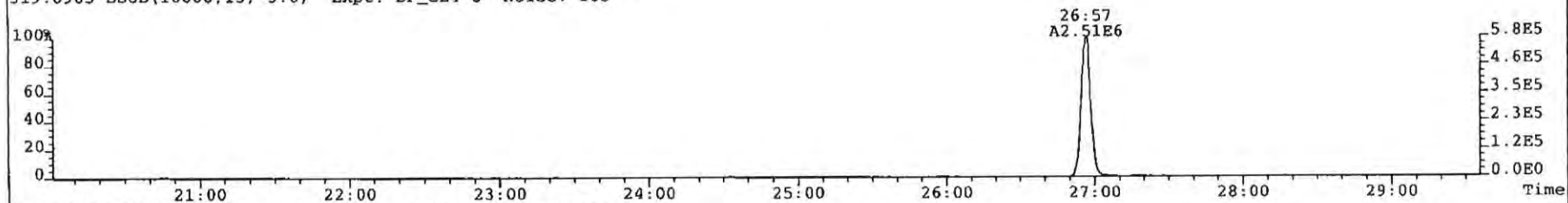
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



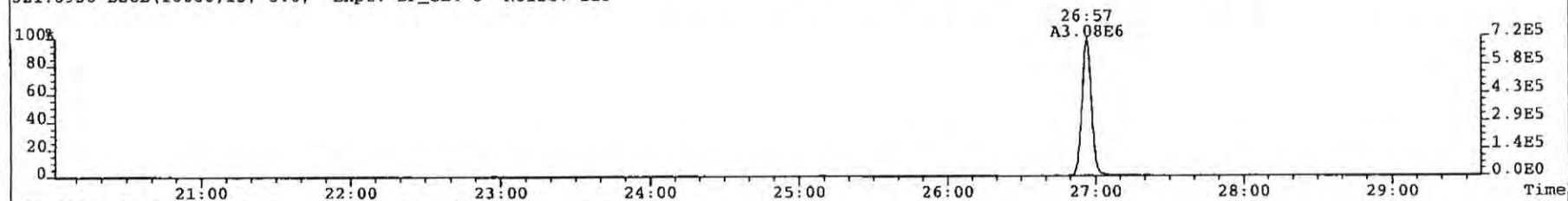
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



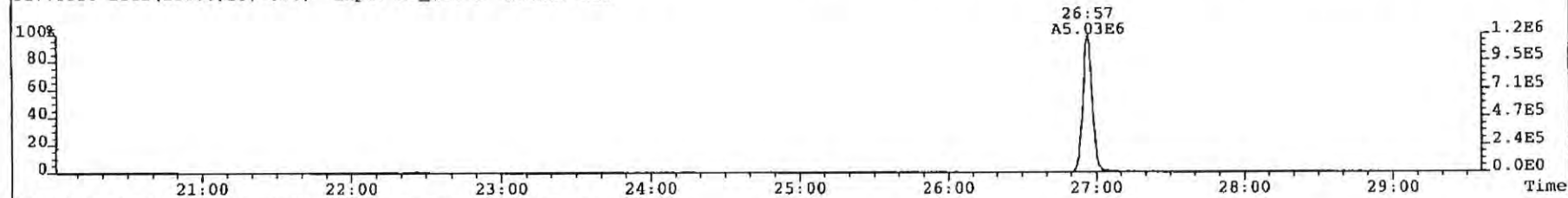
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
319.8965 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 105



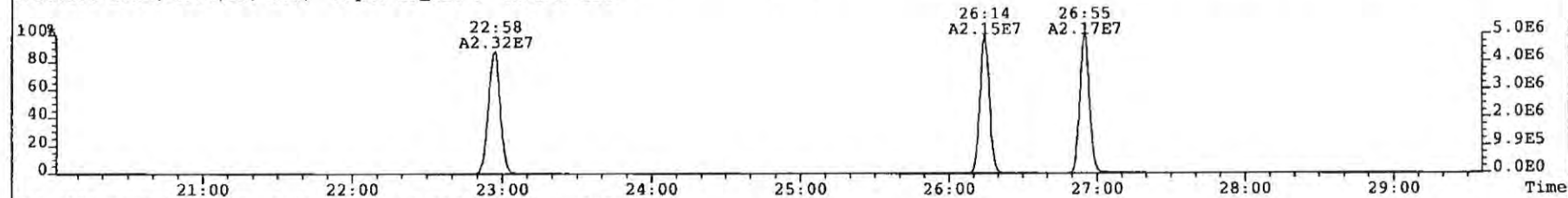
321.8936 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 113



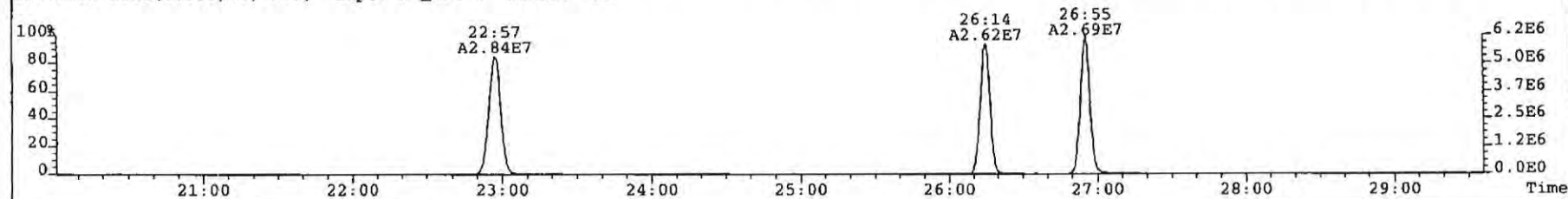
327.8850 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 113



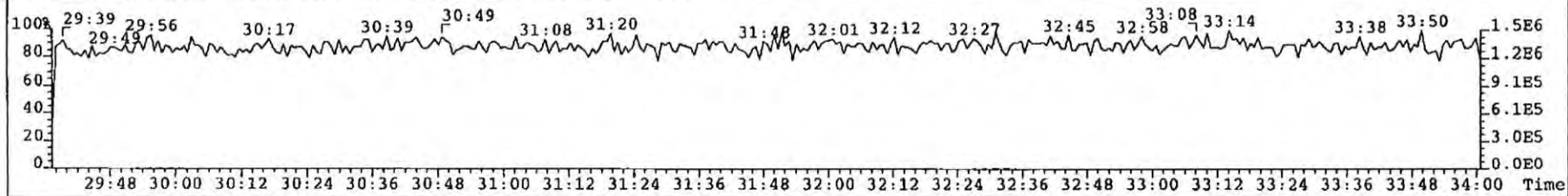
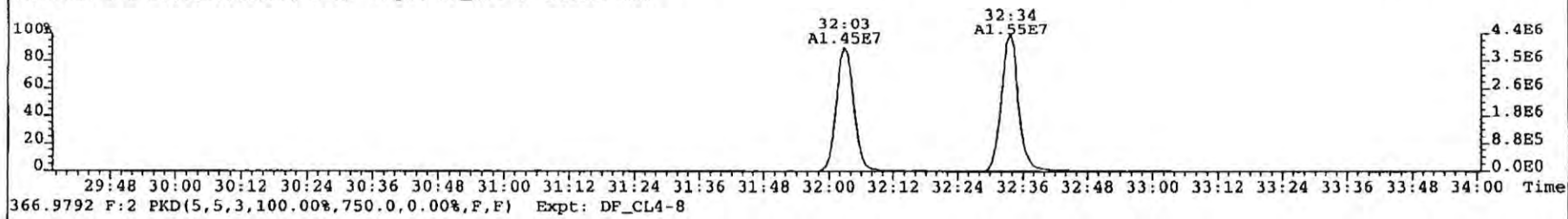
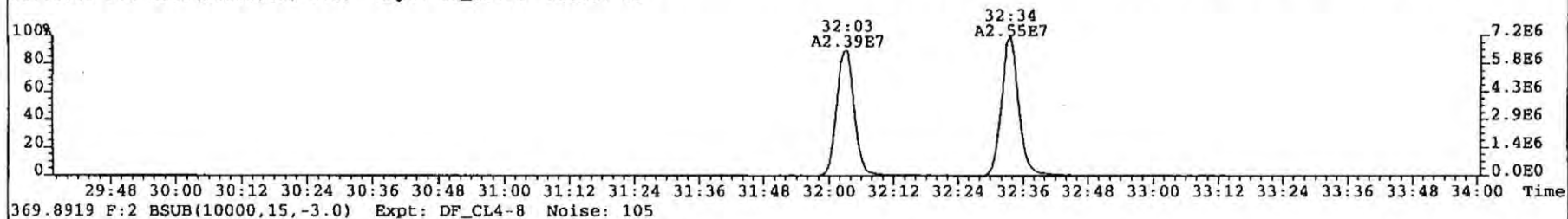
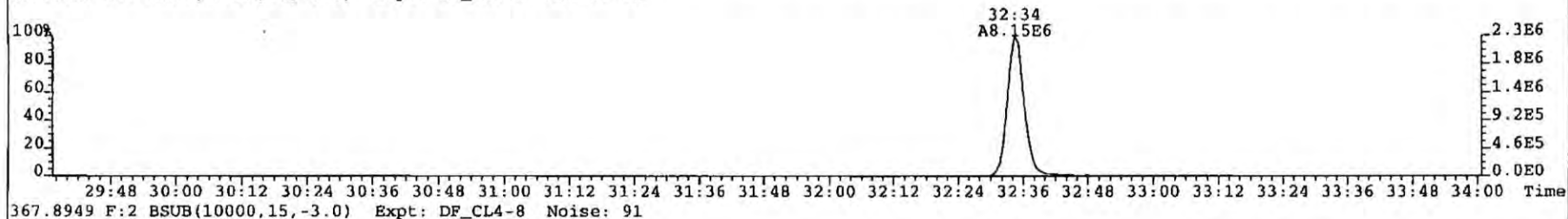
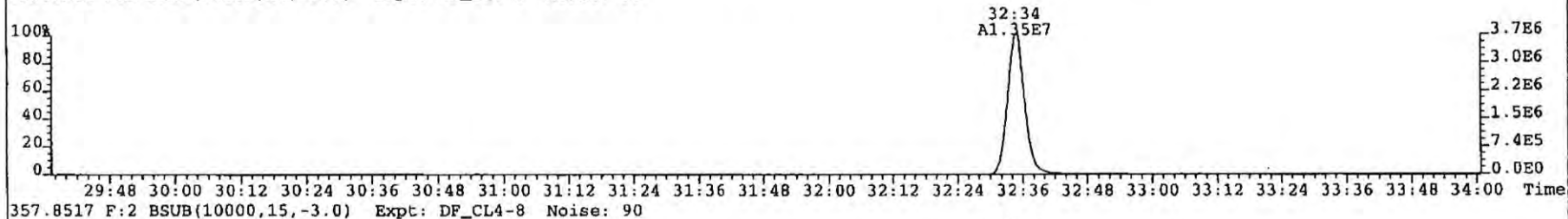
331.9368 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 114



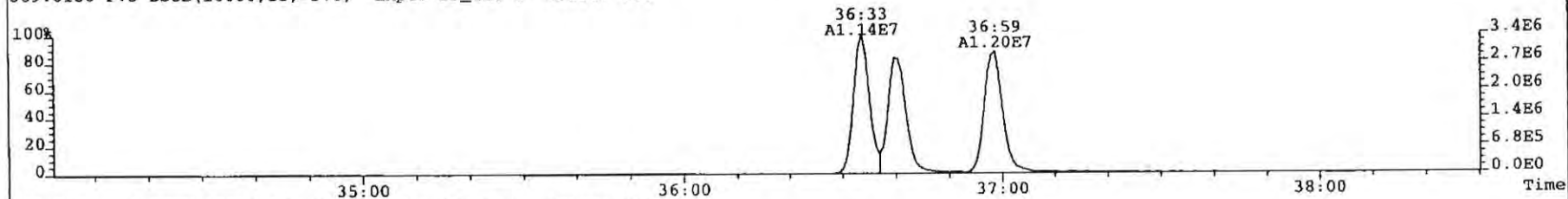
333.9339 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 128



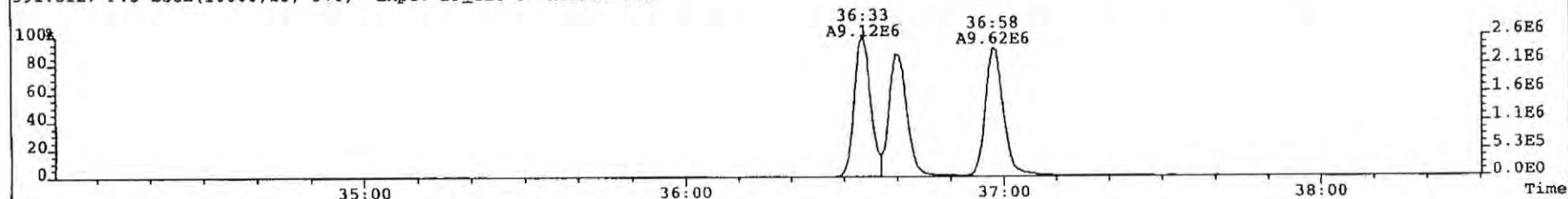
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
355.8546 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



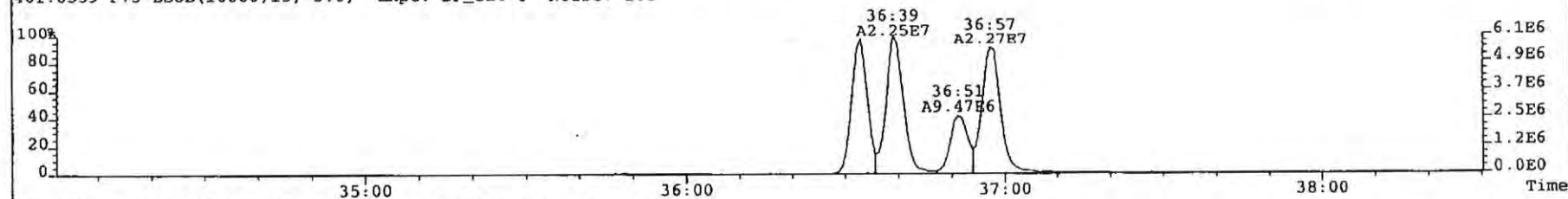
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
389.8156 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 244



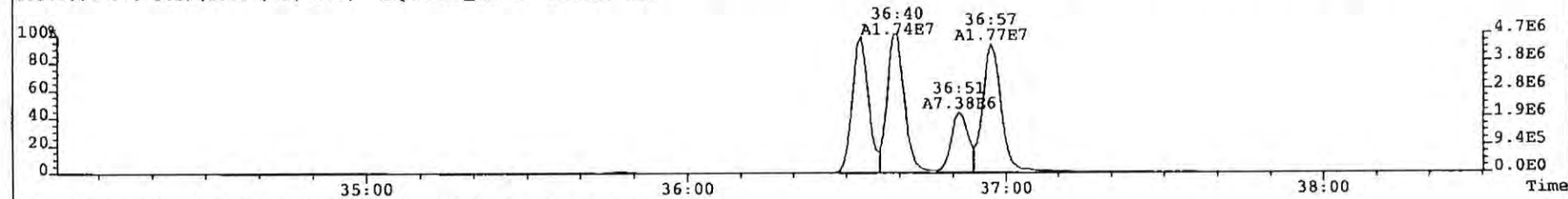
391.8127 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 141



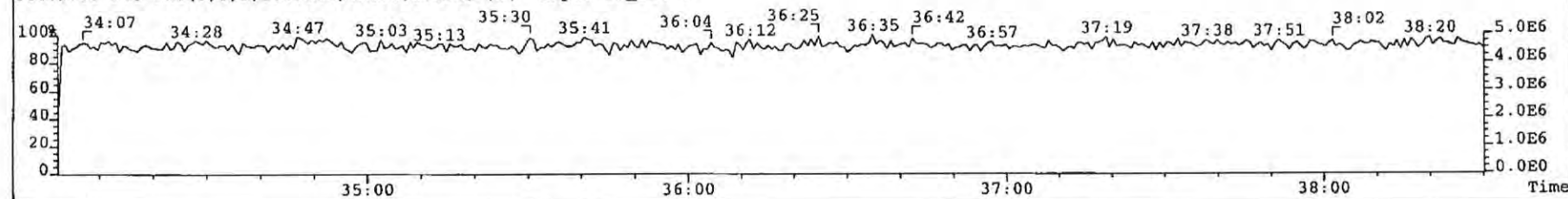
401.8559 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 168



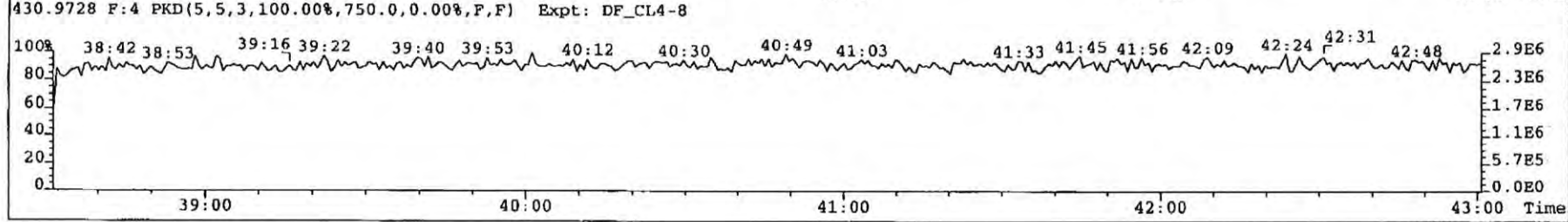
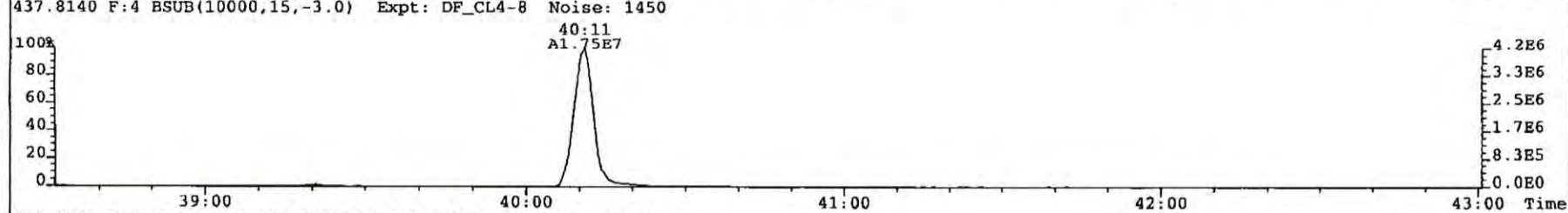
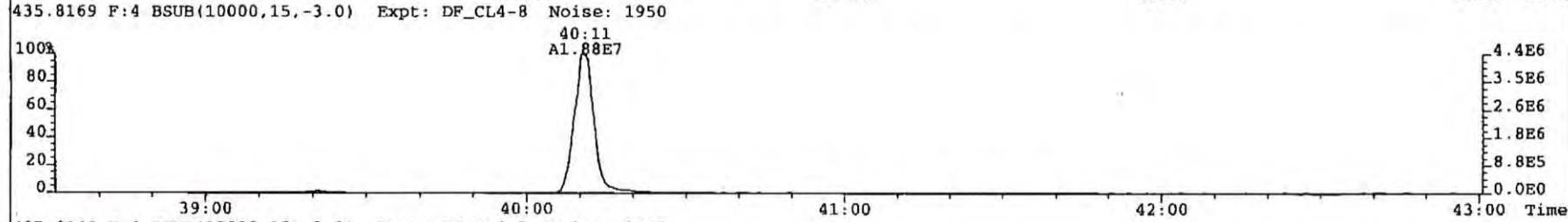
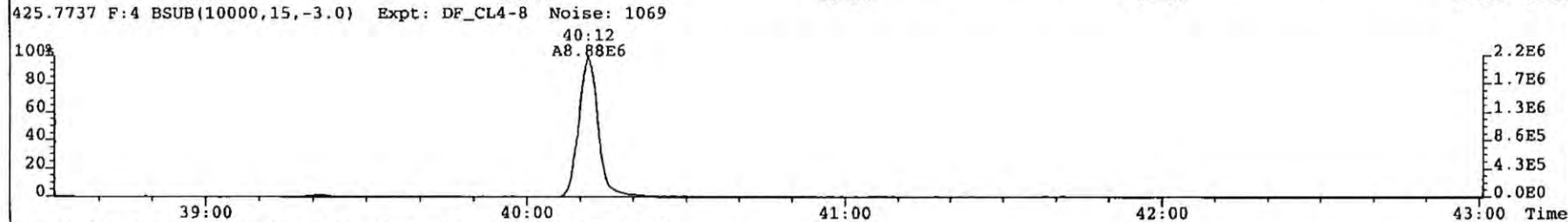
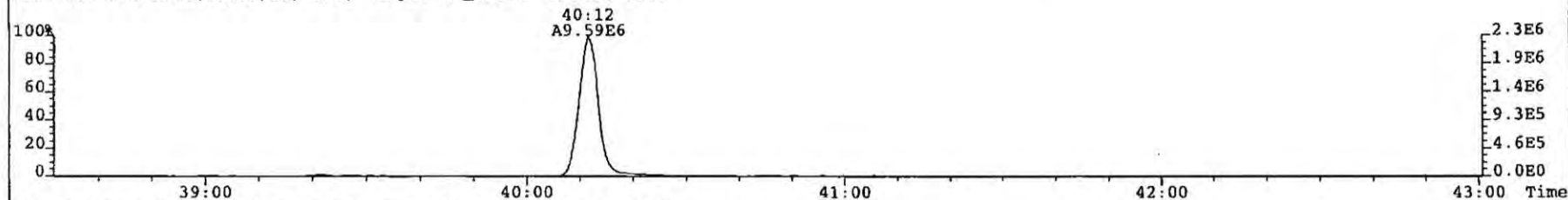
403.8530 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 116



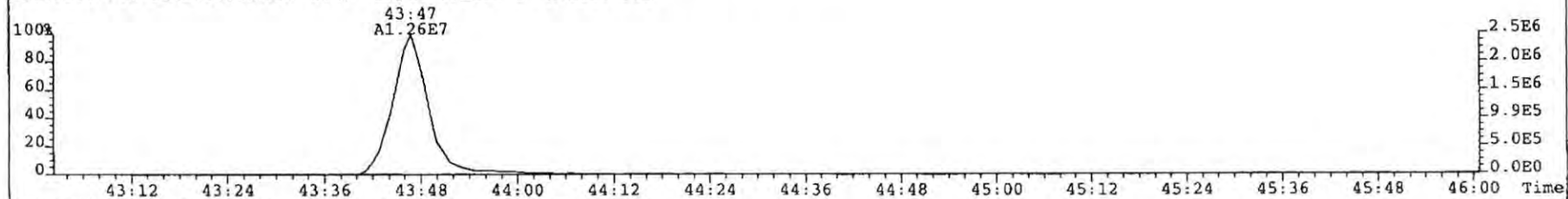
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



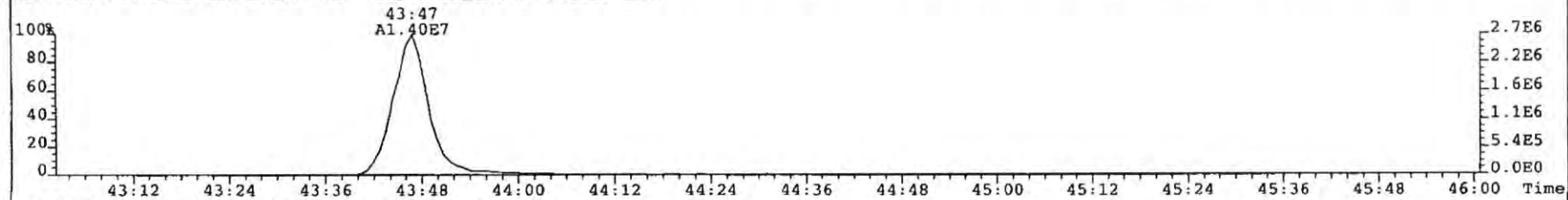
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
423.7767 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1034



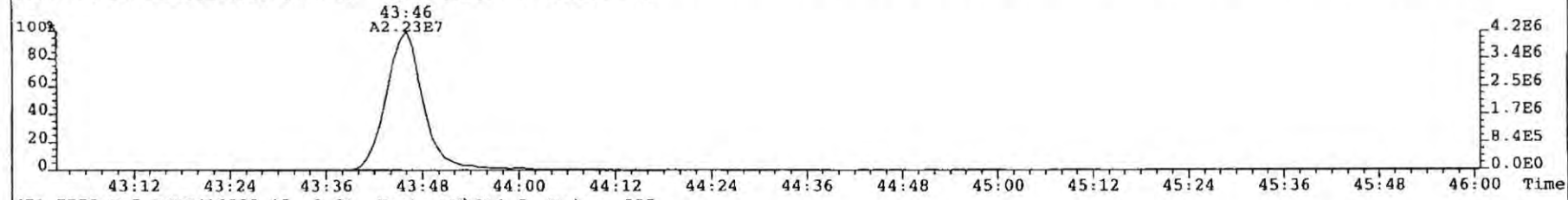
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
457.7377 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 313



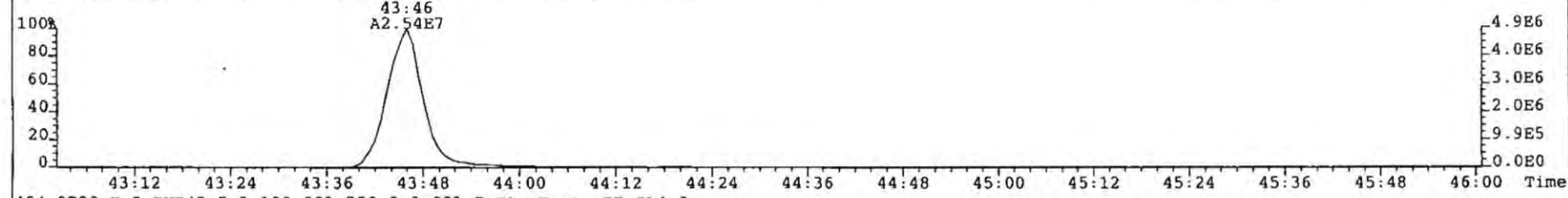
459.7348 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 244



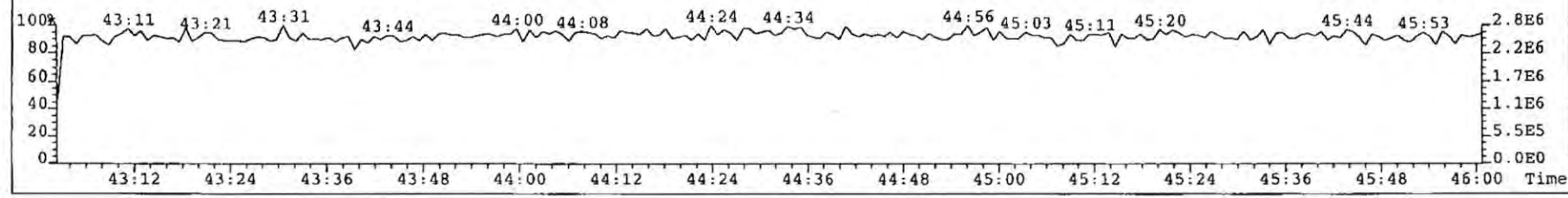
469.7780 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 100



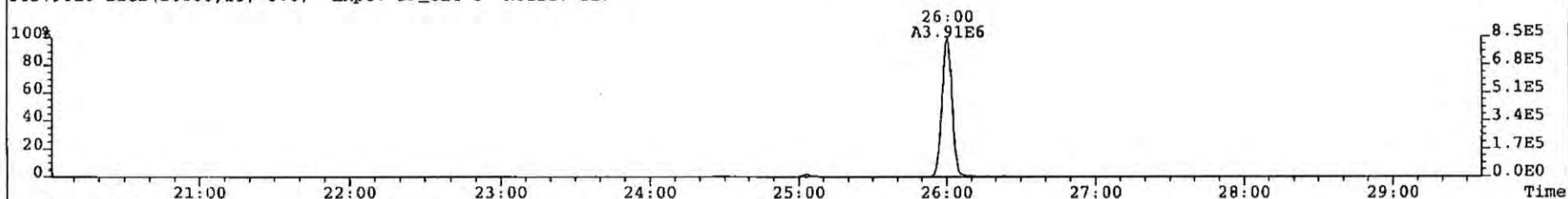
471.7750 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 395



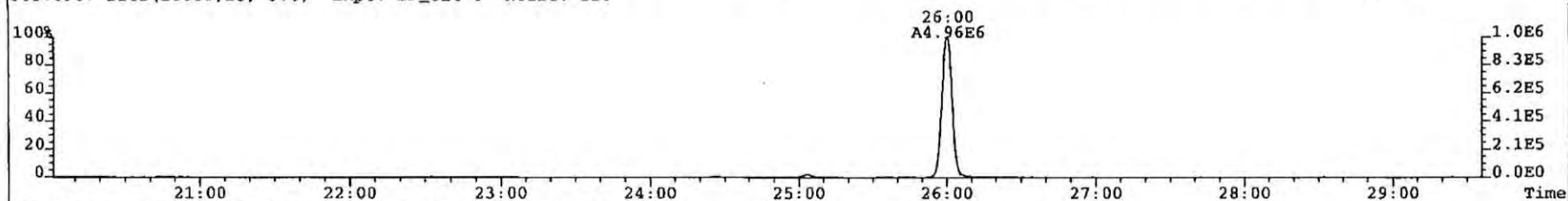
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



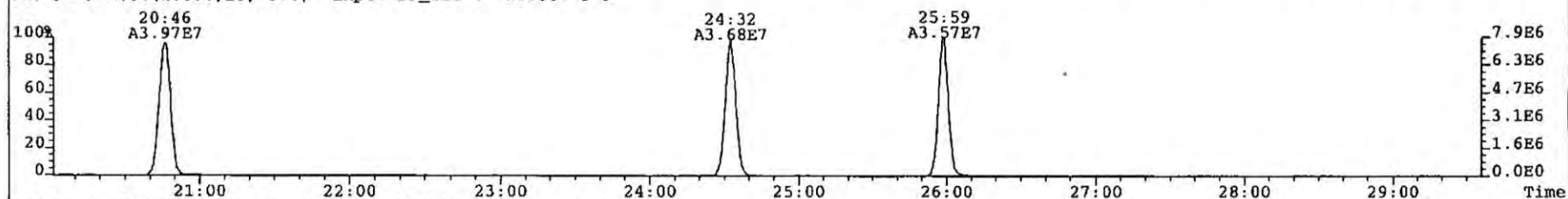
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
303.9016 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 117



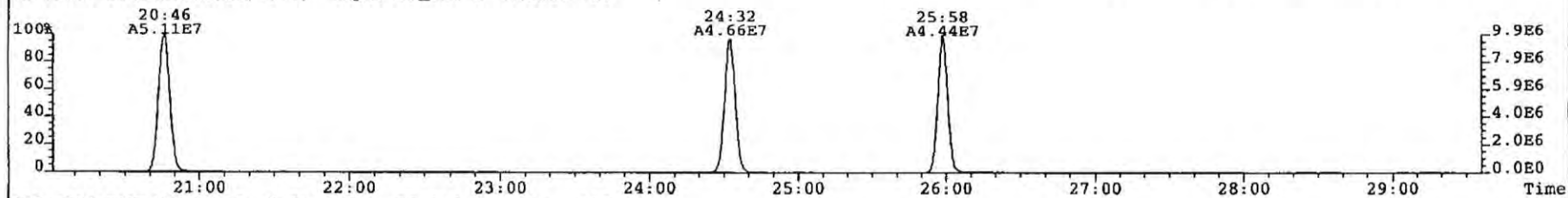
305.8987 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 120



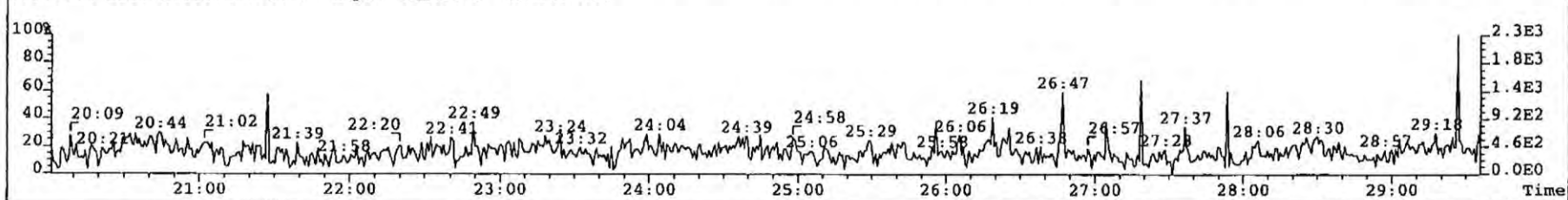
315.9419 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 573



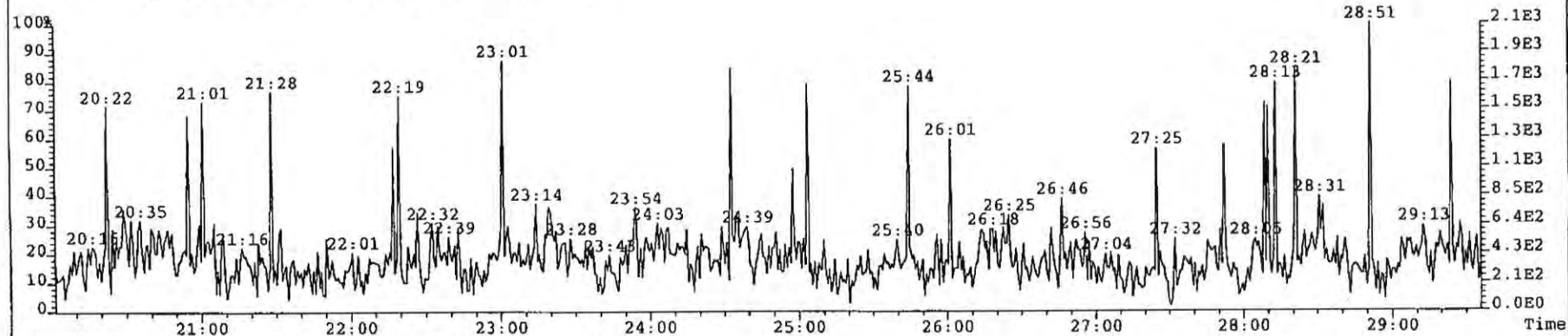
317.9389 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 610



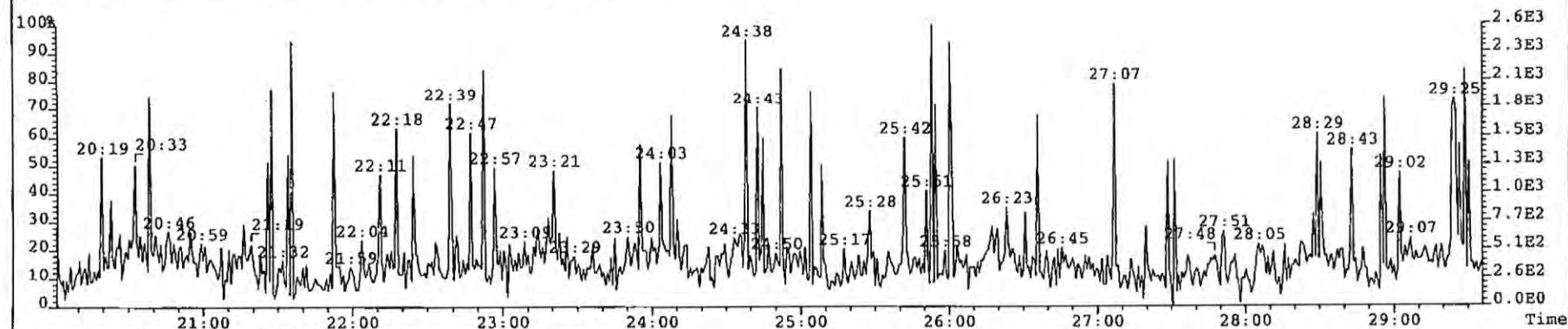
375.8364 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 118



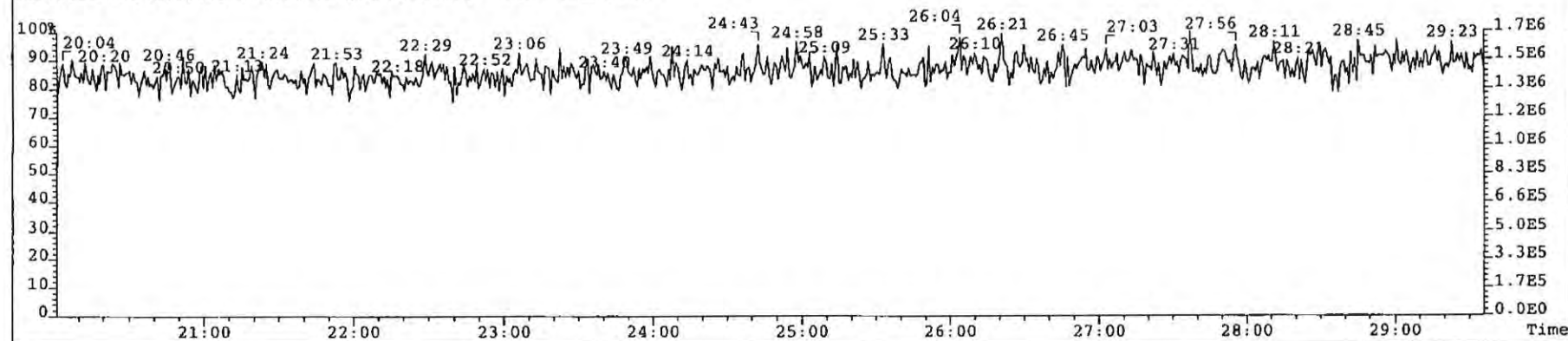
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
339.8597 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 118



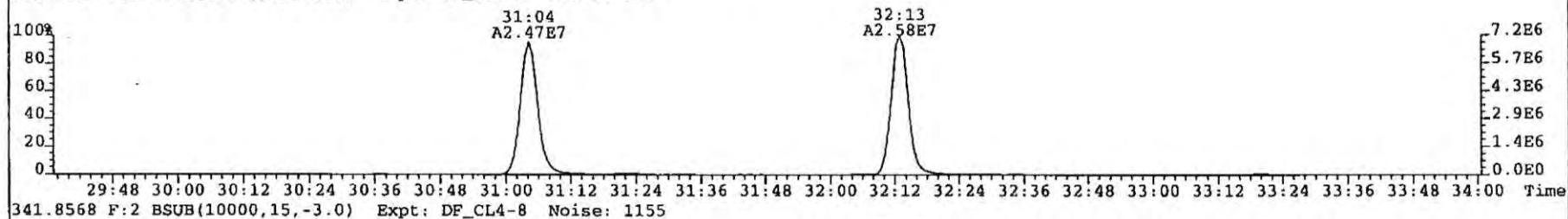
341.8568 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 117



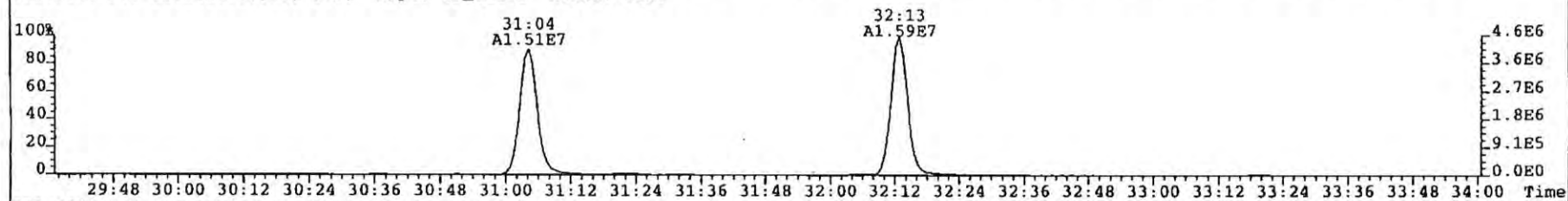
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



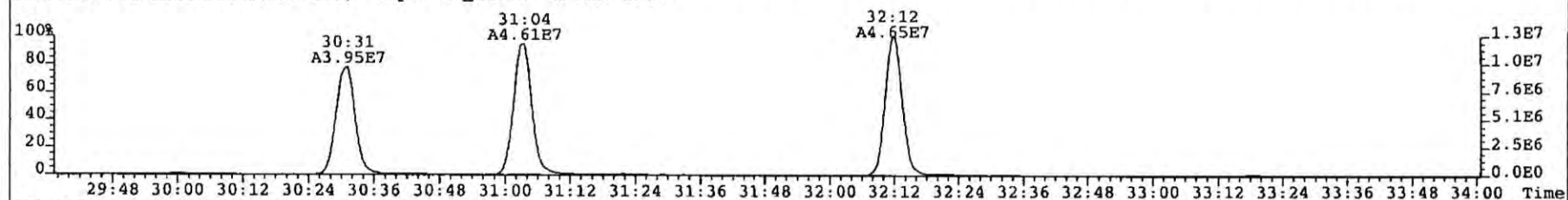
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
339.8597 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 909



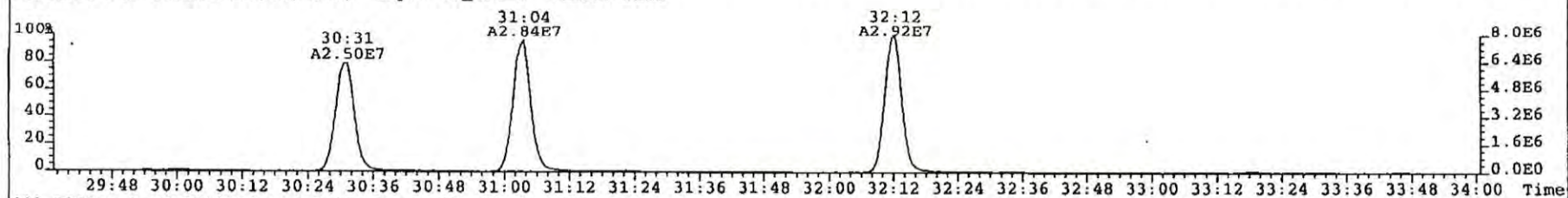
341.8568 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1155



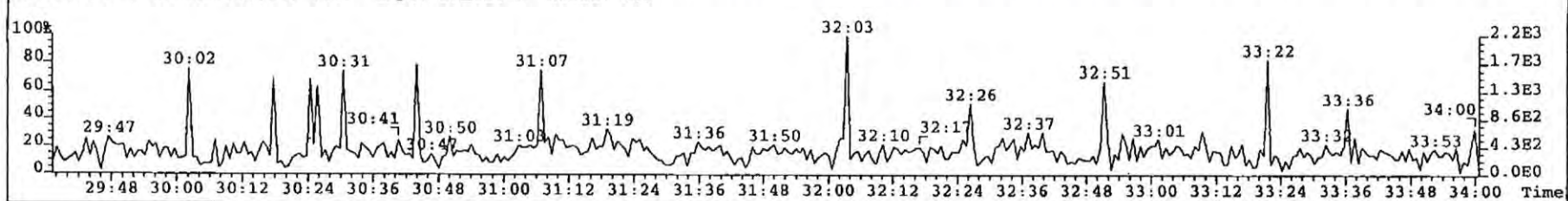
351.9000 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3324



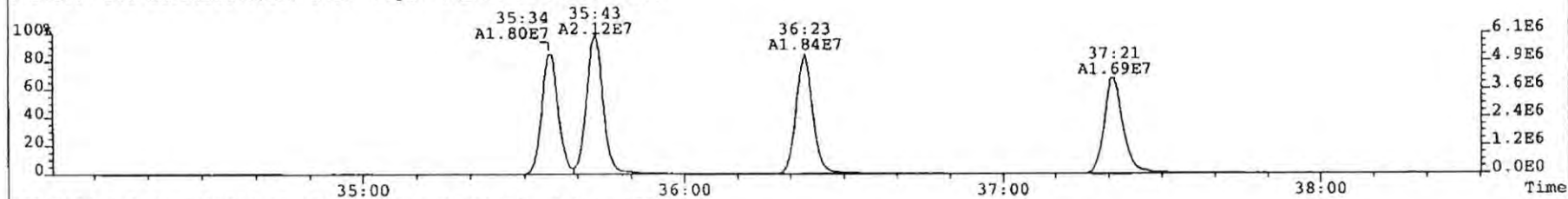
353.8970 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2212



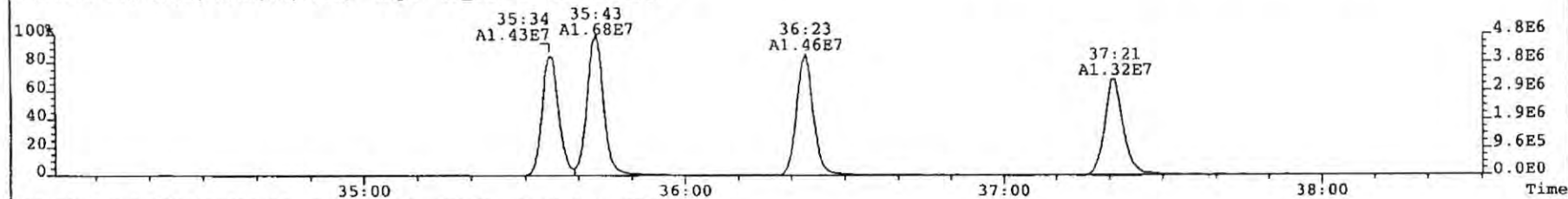
409.7974 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 109



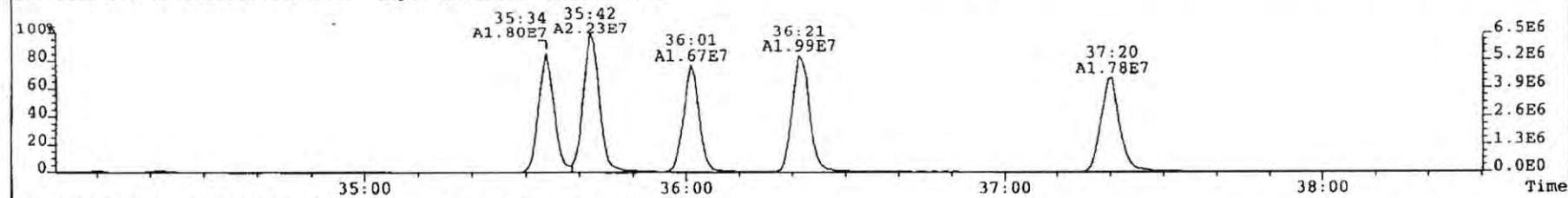
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
373.8207 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1358



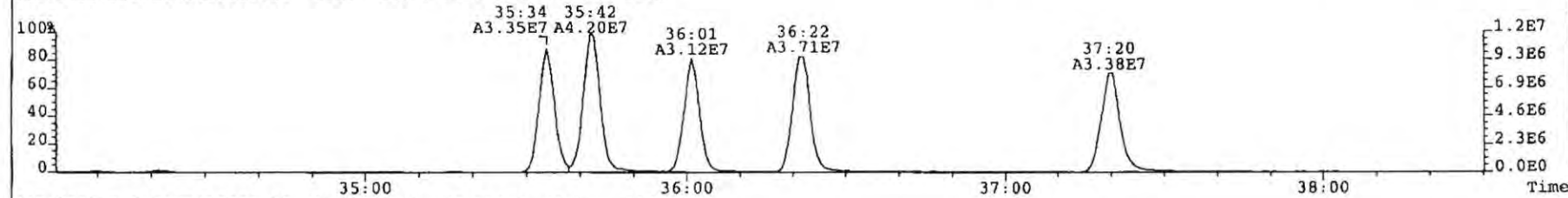
375.8178 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1263



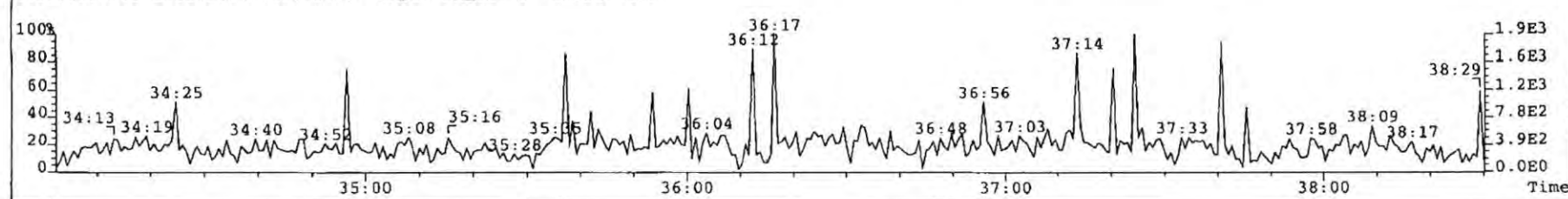
383.8639 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2142



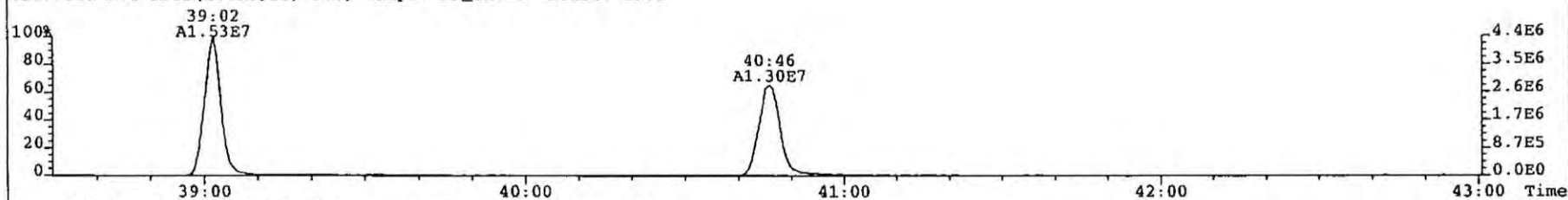
385.8610 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3266



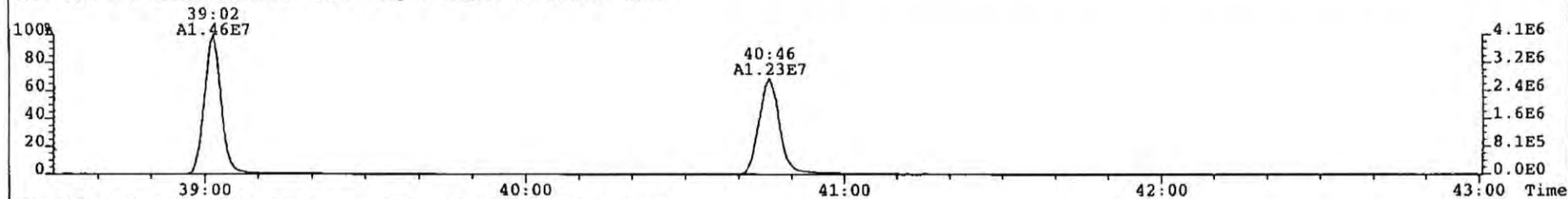
445.7555 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 110



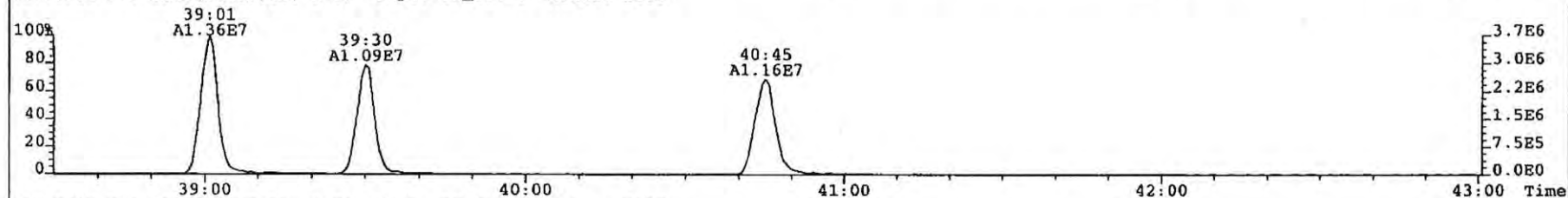
File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
407.7818 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1385



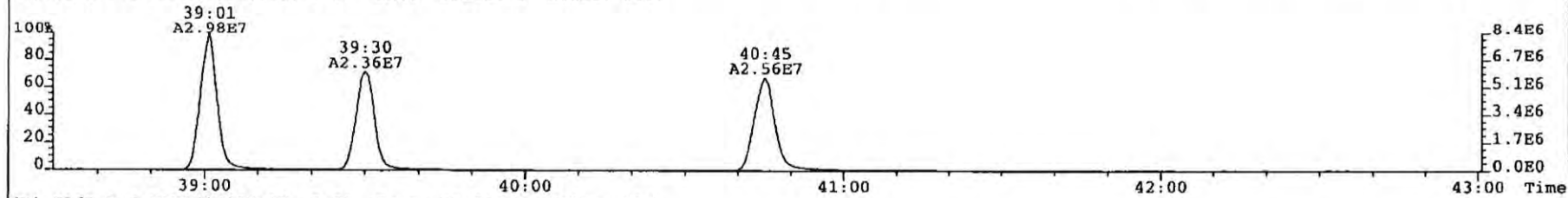
409.7788 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1062



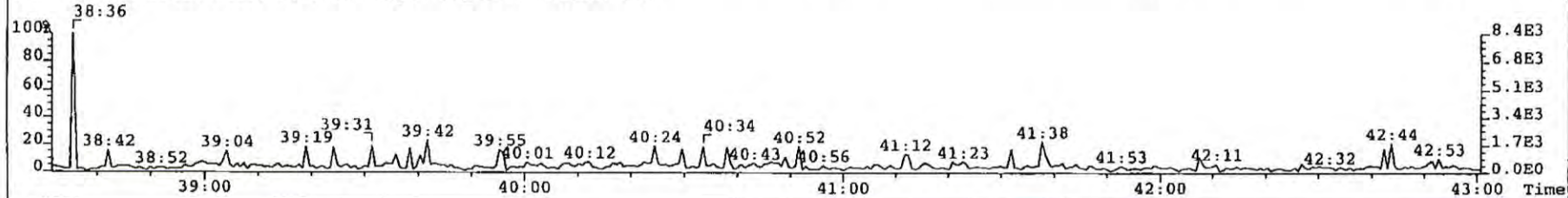
417.8253 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2168



419.8220 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3667

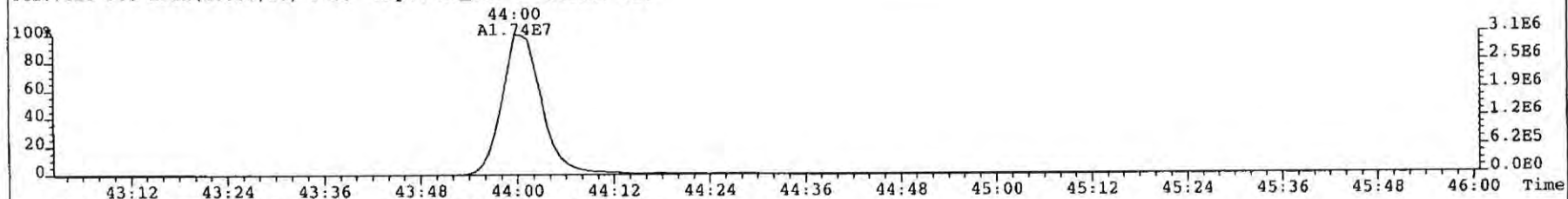


479.7165 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 114

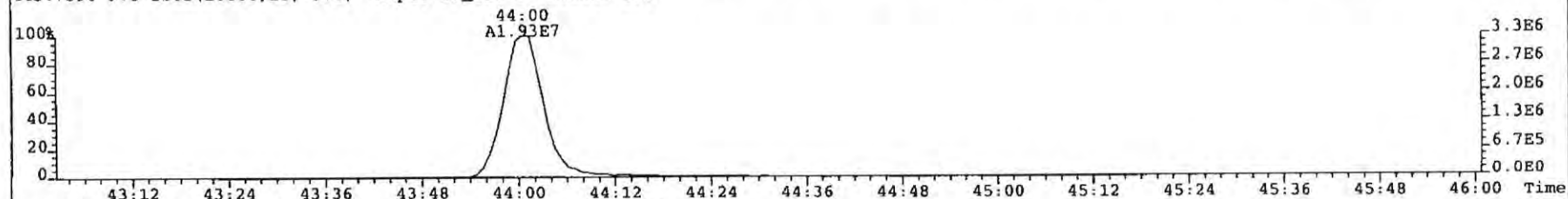


File: 090311P2 Acq: 11-MAR-2009 16:29:05 GC EI+ Voltage SIR Autospec-UltimaE

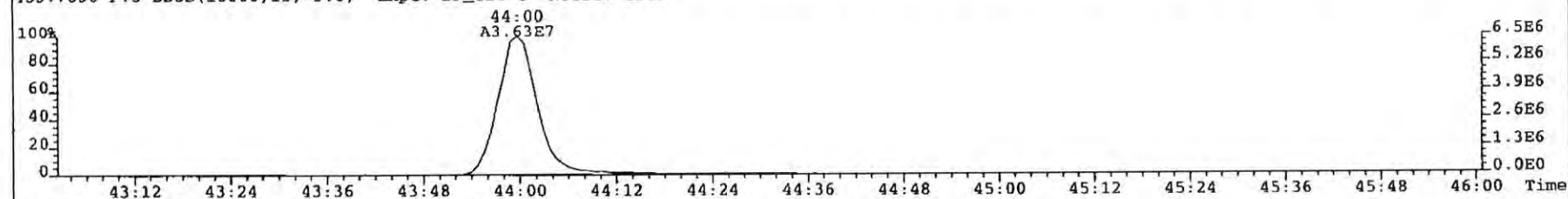
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
441.7428 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 520



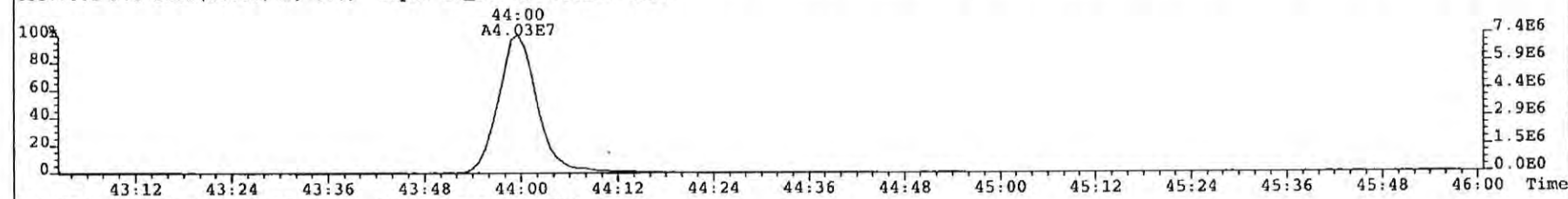
443.7398 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 393



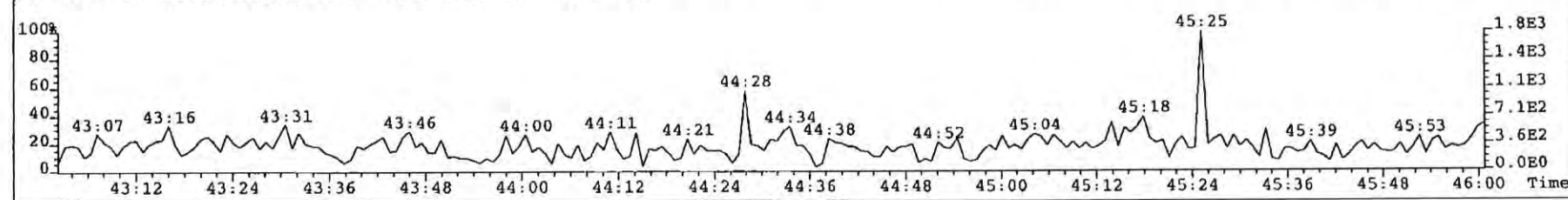
453.7830 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1309



455.7801 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1385



513.6775 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

Contract No.: SAS No.:

Initial Calibration: MM1_DF_07012007A_25DE»✓

GC Column ID: DB-5

VER Data Filename: 090323P2 S#1 Analysis Date: 23-MAR-09 Time: 21:18:18 ✓

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	y	10.2	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.62	1.32-1.78	y	51.6	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	50.7	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	51.3	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	52.3	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	50.9	43.0 - 58.0
OCDD	M+2/M+4	0.88	0.76-1.02	y	103.1	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	10.1	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	51.6	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	51.5	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	50.9	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	52.2	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	50.8	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	51.6	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88-1.20	y	50.5	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88-1.20	y	51.7	43.0 - 58.0
OCDF	M+2/M+4	0.93	0.76-1.02	y	101.0	63.0 - 159.0

Analyst: *[Signature]*
Date: *24 March 09*

- (1) See Table 9, Method 1613, for m/z specifications.
- (2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (3) Contract-required concentration range as specified in Table 6, Method 1613.

24 March 09

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

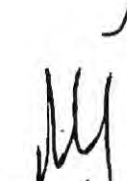
Contract No.: SAS No.:

Initial Calibration: MM1_DF_07012007A_25DE» ✓

GC Column ID: DB-5

VER Data Filename: 090323P2 S#1 Analysis Date: 23-MAR-09 Time: 21:18:18 ✓

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.83	0.65-0.89	Y	101.4	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.64	1.32-1.78	Y	110.1	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.34	1.05-1.43	Y	100.6	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	Y	96.3	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.30	1.05-1.43	Y	97.8	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	Y	113.0	72.0 - 138.0
13C-OCDD	M+2/M+4	0.84	0.76-1.02	Y	214.7	96.0 - 415.0
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	Y	101.9	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	Y	111.5	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	Y	109.0	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M+2/M+4	0.54	0.43-0.59	Y	101.3	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M+2/M+4	0.53	0.43-0.59	Y	103.3	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M+2/M+4	0.53	0.43-0.59	Y	99.9	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M+2/M+4	0.53	0.43-0.59	Y	106.1	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.46	0.37-0.51	Y	108.6	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.46	0.37-0.51	Y	116.9	77.0 - 129.0
13C-OCDF	M+2/M+4	0.90	0.76-1.02	Y	214.4	96.0 - 415.0
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.1	7.9 - 12.7
13C-1,2,3,4,7-PeCDD	M+2/M+4	1.67	1.32-1.78	Y	121.0	70.0 - 130.0
13C-1,2,3,4,6-PeCDF	M+2/M+4	1.57	1.32-1.78	Y	116.7	70.0 - 130.0
13C-1,2,3,4,6,9-HxCDF	M+2/M+4	0.54	0.43-0.59	Y	98.8	70.0 - 130.0
13C-1,2,3,4,6,8,9-HpCDF	M+2/M+4	0.46	0.37-0.51	Y	112.6	70.0 - 130.0

Analyst: 

Date: 26/3/09

- (1) See Table 8, Method 1613, for m/z specifications.
- (2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (3) Contract-required concentration range, as specified in Table 6, Method 1613
- (4) No ion abundance ratio; report concentration found.

1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]


Client ID: SIL7-25-4
Lab ID: CS3
Sample text: CS3 SIL7-25-4

Filename: 090323P2
GC column ID: db-5

S: 1 Vial: 8 Acq: 23-MAR-09 21:18:18
Cal: MM1_DF_07012007A_25DEC08WT/Vol: 1.000
Stds: JS (split adj.): 100 CS/SS: 10.0 ES: 100

37C1-2,3,7,8-TCDD
at level
24 March 09

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	5.68e+06	0.80 y	27:17	1.08	10.3	942	2.5	0.0319	-
Ax	1,2,3,7,8-PeCDD	2.39e+07	1.62 y	32:49	1.00	51.6	3881	2.5	0.204	-
Ax	1,2,3,4,7,8-HxCDD	2.31e+07	1.25 y	36:46	1.08	50.7	3470	2.5	0.164	-
Ax	1,2,3,6,7,8-HxCDD	2.21e+07	1.24 y	36:53	0.94	51.3	3470	2.5	0.170	-
Ax	1,2,3,7,8,9-HxCDD	2.38e+07	1.24 y	37:11	0.99	52.3	3470	2.5	0.184	-
Ax	1,2,3,4,6,7,8-HpCDD	2.13e+07	1.05 y	40:22	0.97	50.9	4218	2.5	0.215	-
Ax	OCDD	2.99e+07	0.88 y	44:00	1.06	103	5189	2.5	0.429	-
Ax2	OCDD-a	1.76e+06	2.39 y	43:59	0.06	102	302	2.5	0.418	-
Ax	2,3,7,8-TCDF	8.57e+06	0.80 y	26:21	1.05	10.1	657	2.5	0.0150	-
Ax	1,2,3,7,8-PeCDF	4.01e+07	1.60 y	31:20	0.98	51.6	3646	2.5	0.108	-
Ax	2,3,4,7,8-PeCDF	4.18e+07	1.62 y	32:28	1.01	51.5	3646	2.5	0.103	-
Ax	1,2,3,4,7,8-HxCDF	3.58e+07	1.25 y	35:47	1.22	50.9	7808	2.5	0.145	-
Ax	1,2,3,6,7,8-HxCDF	4.25e+07	1.26 y	35:56	1.15	52.2	7808	2.5	0.127	-
Ax	2,3,4,6,7,8-HxCDF	3.57e+07	1.25 y	36:35	1.13	50.8	7808	2.5	0.153	-
Ax	1,2,3,7,8,9-HxCDF	3.30e+07	1.25 y	37:34	1.12	51.6	7808	2.5	0.192	-
Ax	1,2,3,4,6,7,8-HpCDF	3.36e+07	1.04 y	39:12	1.37	50.5	5361	2.5	0.109	-
Ax	1,2,3,4,7,8,9-HpCDF	2.84e+07	1.03 y	40:57	1.32	51.7	5361	2.5	0.151	-
Ax	OCDF	4.07e+07	0.93 y	44:14	0.94	101	9475	2.5	0.611	-
Ax2	OCDF-a	2.35e+06	2.50 y	44:13	0.05	104	1797	2.5	2.06	-
ES	13C-2,3,7,8-TCDD	5.09e+07	0.83 y	27:15	0.99	102	2023	2.5	0.0751	102
ES	13C-1,2,3,7,8-PeCDD	4.64e+07	1.64 y	32:48	0.83	110	11330	2.5	0.500	110
ES	13C-1,2,3,4,7,8-HxCDD	4.21e+07	1.34 y	36:45	1.08	101	10318	2.5	0.506	101
ES	13C-1,2,3,6,7,8-HxCDD	4.56e+07	1.26 y	36:52	1.23	96.3	10318	2.5	0.447	96.3
ES	13C-1,2,3,7,8,9-HxCDD	4.57e+07	1.30 y	37:10	1.21	97.8	10318	2.5	0.453	97.8
ES	13C-1,2,3,4,6,7,8-HpCDD	4.29e+07	1.06 y	40:21	0.98	113	12187	2.5	0.658	113
ES	13C-OCDD	5.47e+07	0.84 y	43:58	0.66	215	6802	2.5	0.548	107
ES	13C-2,3,7,8-TCDF	8.09e+07	0.79 y	26:20	0.96	102	2305	2.5	0.0633	102
ES	13C-1,2,3,7,8-PeCDF	7.90e+07	1.59 y	31:19	0.85	112	6594	2.5	0.203	112
ES	13C-2,3,4,7,8-PeCDF	8.00e+07	1.59 y	32:26	0.88	109	6594	2.5	0.196	109
ES	13C-1,2,3,4,7,8-HxCDF	5.78e+07	0.54 y	35:46	1.47	101	27693	2.5	0.997	101
ES	13C-1,2,3,6,7,8-HxCDF	7.07e+07	0.53 y	35:55	1.78	103	27693	2.5	0.828	103
ES	13C-2,3,4,6,7,8-HxCDF	6.21e+07	0.53 y	36:34	1.61	99.9	27693	2.5	0.914	99.9
ES	13C-1,2,3,7,8,9-HxCDF	5.74e+07	0.53 y	37:33	1.40	106	27693	2.5	1.05	106
ES	13C-1,2,3,4,6,7,8-HpCDF	4.87e+07	0.46 y	39:11	1.16	109	12985	2.5	0.594	109
ES	13C-1,2,3,4,7,8,9-HpCDF	4.16e+07	0.46 y	40:56	0.92	117	12985	2.5	0.749	117
ES	13C-OCDF	8.59e+07	0.90 y	44:13	1.04	214	8292	2.5	0.425	107
CS	37C1-2,3,7,8-TCDD	5.04e+06		27:17	0.99	10.1			1.01	101
CS	13C-1,2,3,4,7-PeCDD	4.70e+07	1.67 y	32:18	0.77	121	11330	2.5	0.542	121
CS	13C-1,2,3,4,6-PeCDF	7.70e+07	1.57 y	30:47	0.79	117	6594	2.5	0.218	117
CS	13C-1,2,3,4,6,9-HxCDF	5.39e+07	0.54 y	36:13	1.41	98.8	27693	2.5	1.04	98.8
CS	13C-1,2,3,4,6,8,9-HpCDF	3.95e+07	0.46 y	39:40	0.91	113	12985	2.5	0.758	113
NA	n/a	*	* n	NotF»	Div0	*	1110	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.04e+07	0.82 y	26:35	-	144	2023	2.5	-	-
JS	13C-1,2,3,4-TCDF	8.31e+07	0.79 y	24:56	-	150	2305	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.93e+07	1.29 y	37:03	-	88.7	1293	2.5	-	-

Analyst: 

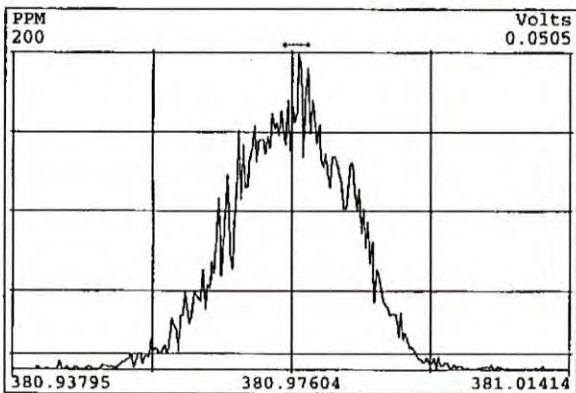
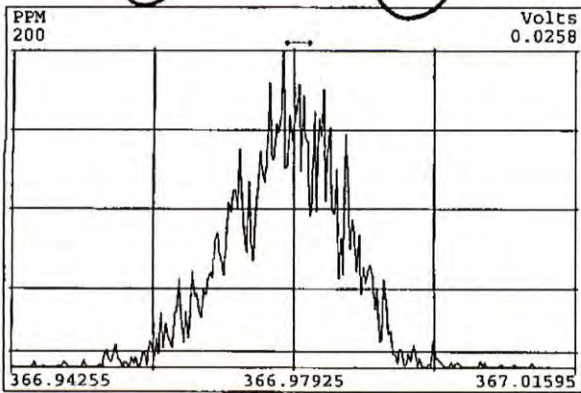
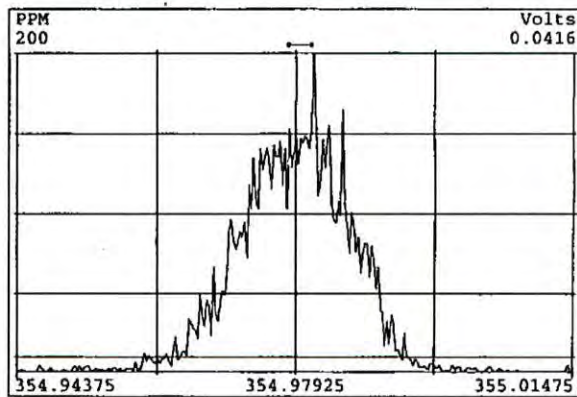
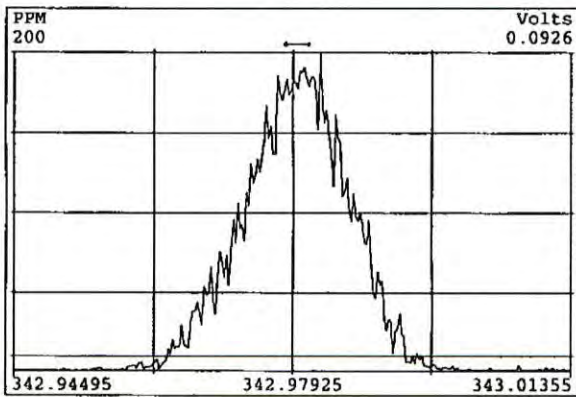
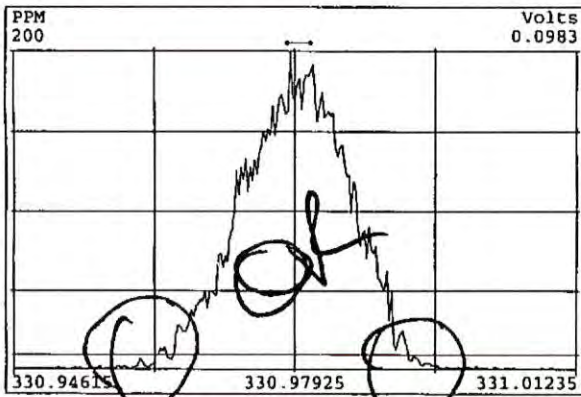
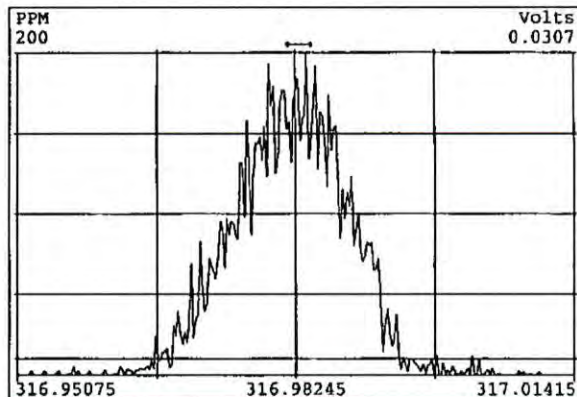
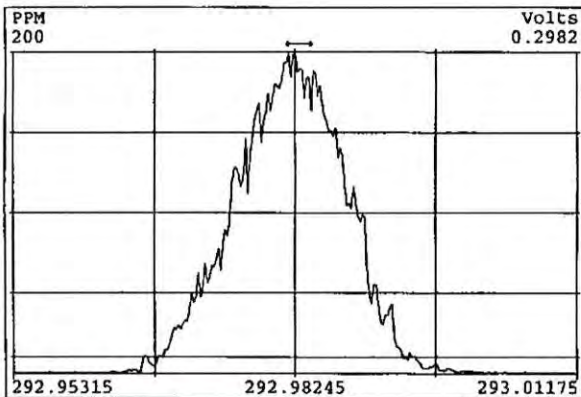
Date: 24/03/09

SS	37Cl-2,3,7,8-TCDD	5.04e+06		27:17	1.00	9.89		0.995	98.9
SS	13C-1,2,3,4,7-PeCDD	4.70e+07	1.67 y	32:18	0.93	109	11330 2.5	0.642	109
SS	13C-1,2,3,4,6-PeCDF	7.70e+07	1.57 y	30:47	0.94	104	6594 2.5	0.205	104
SS	13C-1,2,3,4,6,9-HxCDF	5.39e+07	0.54 y	36:13	0.80	95.1	27693 2.5	0.647	95.1
SS	13C-1,2,3,4,6,8,9-HpCDF	3.95e+07	0.46 y	39:40	0.79	103	12985 2.5	0.457	103
SBS	2,4,6,8-TCDF	*	* n	NotF>>	1.05	*	657 2.5	0.0150	-
Ay	1,3,6,8-TCDD	*	* n	NotF>>	1.08	*	942 2.5	0.0319	-
Ay	1,2,3,9-TCDD	*	* n	NotF>>	1.08	*	942 2.5	0.0319	-
Ay	1,2,8,9-TCDD	*	* n	NotF>>	1.08	*	942 2.5	0.0319	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF>>	1.00	*	3881 2.5	0.204	-
Ay	1,2,3,8,9-PeCDD	*	* n	NotF>>	1.00	*	3881 2.5	0.204	-
Ay	1,2,4,6,7,9-HxCDD	*	* n	NotF>>	1.00	*	3470 2.5	0.173	-
Ay	1,2,3,4,6,7,9-HpCDD	4.46e+05	1.14 y	39:31	0.97	1.07	4218 2.5	0.215	-
Ay	1,3,6,8-TCDF	*	* n	NotF>>	1.05	*	657 2.5	0.0150	-
Ay	2,3,4,8-TCDF	8.57e+06	0.80 y	26:21	1.05	10.1	657 2.5	0.0150	-
Ay	1,2,8,9-TCDF	*	* n	NotF>>	1.05	*	657 2.5	0.0150	-
Ay	1,3,4,6,8-PeCDF	*	* n	NotF>>	1.05	*	1409 2.5	0.0321	-
Ay	1,2,3,8,9-PeCDF	4.80e+05	1.77 y	33:33	1.00	0.605	3646 2.5	0.105	-
Ay	1,2,3,4,6,8-HxCDF	*	* n	NotF>>	1.15	*	7808 2.5	0.152	-
Tot	Total Tetra-Dioxins	5.75e+06	0.69 y	27:01	1.08	10.4	942 2.5	0.0319	-
Tot	Total Penta-Dioxins	2.39e+07	1.62 y	32:49	1.00	51.6	3881 2.5	0.204	-
Tot	Total Hexa-Dioxins	6.91e+07	1.23 y	36:00	1.00	155	3470 2.5	0.173	-
Tot	Total Hepta-Dioxins	2.17e+07	1.14 y	39:31	0.97	52.0	4218 2.5	0.215	-
Tot	Total Tetra-Furans	8.86e+06	0.74 y	23:00	1.05	10.5	657 2.5	0.0150	-
Tot	Total Penta-Furans	8.37e+07	1.48 y	30:12	1.00	105	3646 2.5	0.105	-
Tot	Total Hexa-Furans	1.47e+08	1.25 y	35:47	1.15	205	7808 2.5	0.152	-
Tot	Total Hepta-Furans	6.30e+07	1.04 y	39:12	1.35	104	5361 2.5	0.128	-
Tot	TCDD EMPC	5.78e+06	0.43 y	25:33	1.08	10.5	942 2.5	0.0319	-
Tot	PeCDD EMPC	2.41e+07	0.98 y	31:24	1.00	52.1	3881 2.5	0.204	-
Tot	HxCDD EMPC	6.94e+07	0.67 y	35:46	1.00	155	3470 2.5	0.173	-
Tot	HpCDD EMPC	2.17e+07	1.14 y	39:31	0.97	52.0	4218 2.5	0.215	-
Tot	TCDF EMPC	9.02e+06	0.74 y	23:00	1.05	10.7	657 2.5	0.0150	-
Tot	PeCDF EMPC	8.41e+07	1.48 y	30:12	1.00	106	3646 2.5	0.105	-
Tot	HxCDF EMPC	1.47e+08	1.25 y	35:47	1.15	205	7808 2.5	0.152	-
Tot	HpCDF EMPC	6.30e+07	1.04 y	39:12	1.35	104	5361 2.5	0.128	-
AS	13C-1,3,6,8-TCDD	5.52e+07	0.80 y	23:23	1.09	101	2023 2.5	0.0686	101
AS	13C-1,3,6,8-TCDF	9.12e+07	0.79 y	21:12	1.09	101	2305 2.5	0.0556	101
DPE	HxCdPE	*		NotF>>	-	*	-	-	-
DPE	HpCdPE	*		NotF>>	-	*	-	-	-
DPE	OCdPE	*		NotF>>	-	*	-	-	-
DPE	NCDPE	*		NotF>>	-	*	-	-	-
DPE	DCDPE	*		NotF>>	-	*	-	-	-
LMC	Fn1 check mass	*		NotF>>	-	*	-	-	-
LMC	Fn2 check mass	*		NotF>>	-	*	-	-	-
LMC	Fn3 check mass	*		NotF>>	-	*	-	-	-
LMC	Fn4 check mass	*		NotF>>	-	*	-	-	-
LMC	Fn5 check mass	*		NotF>>	-	*	-	-	-

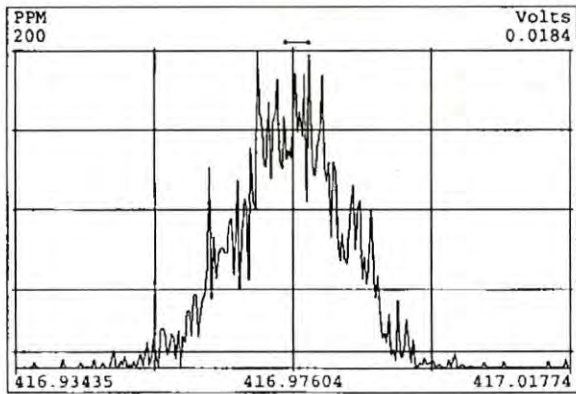
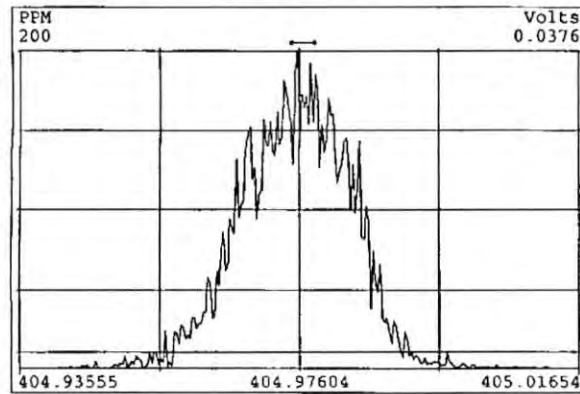
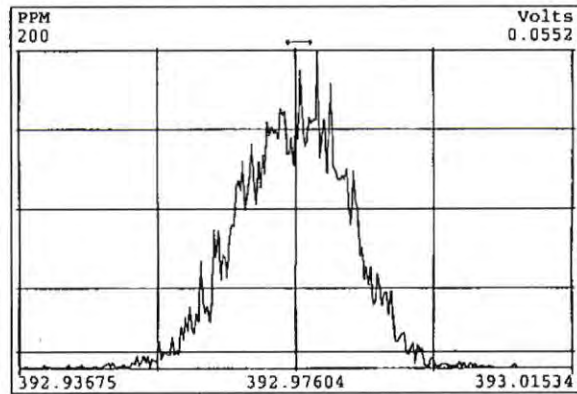
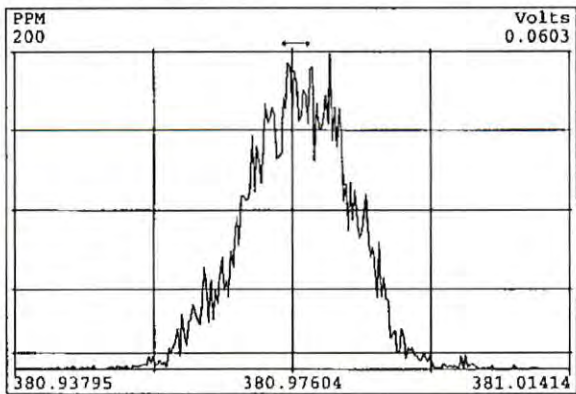
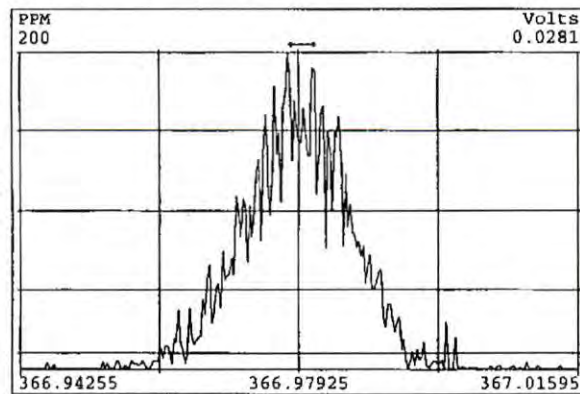
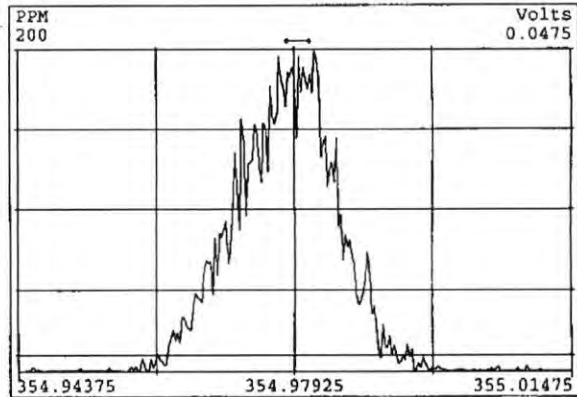
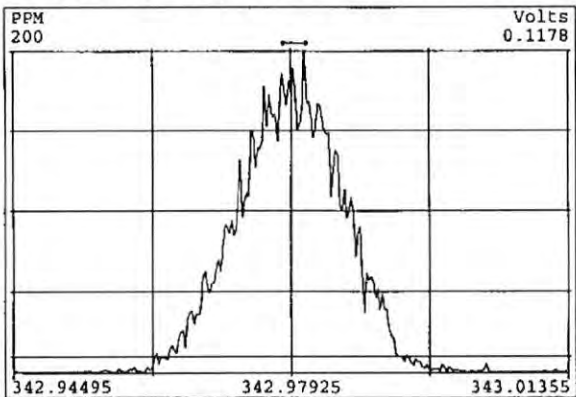
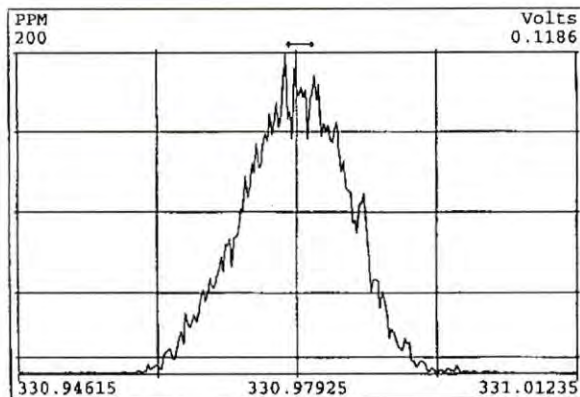
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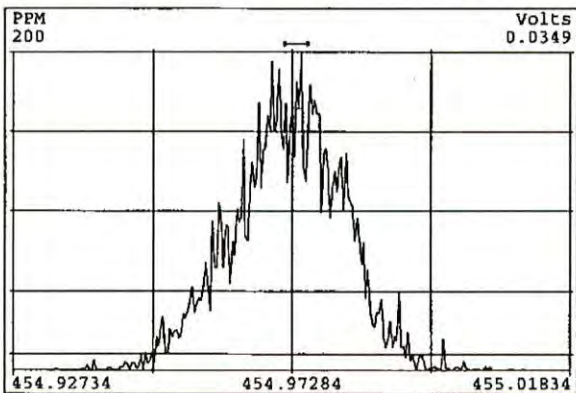
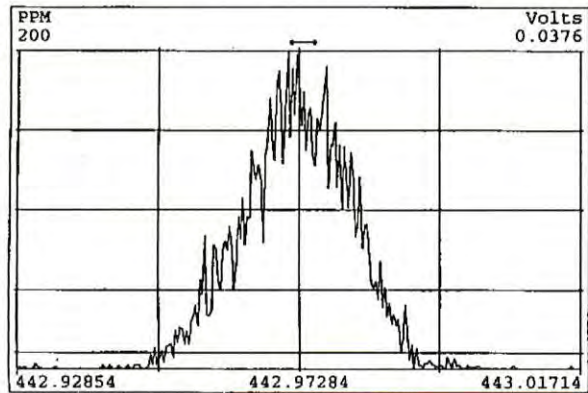
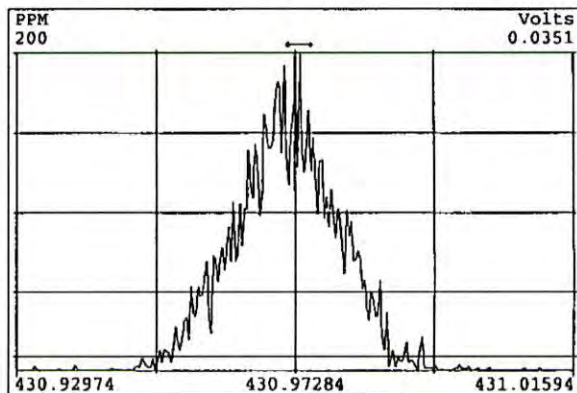
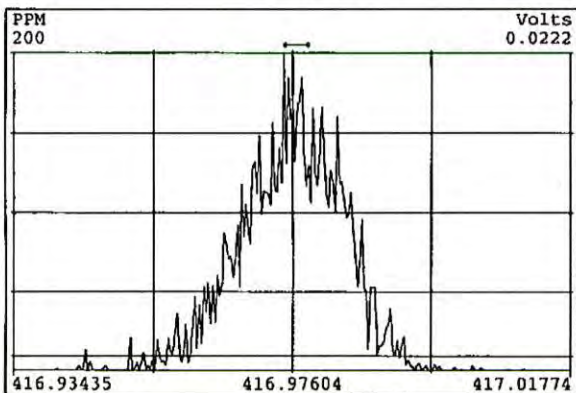
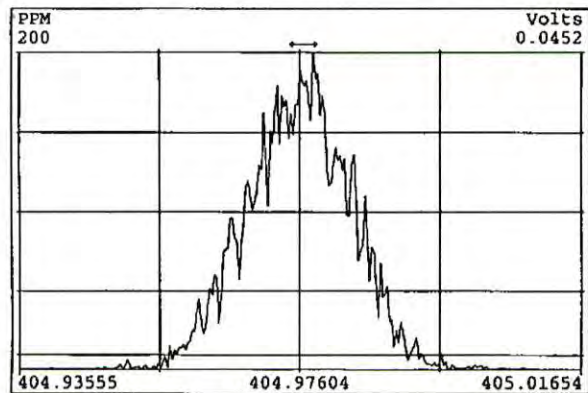
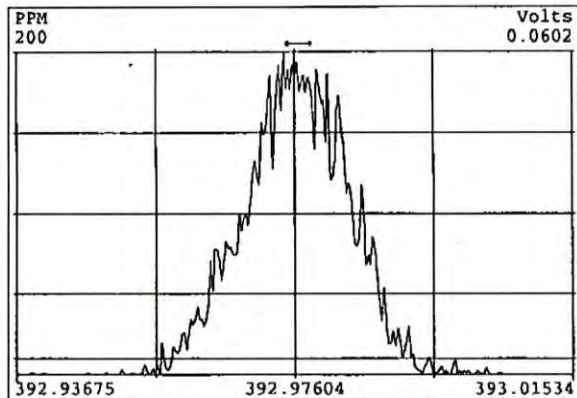
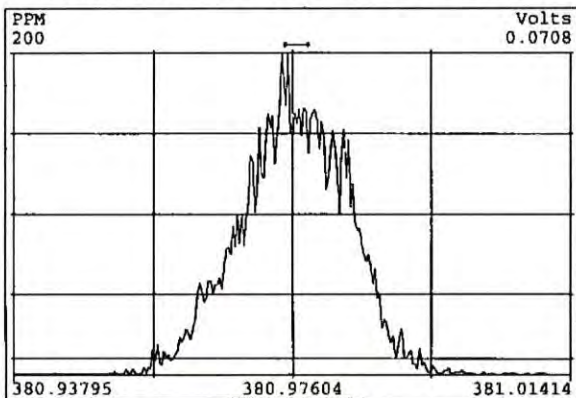
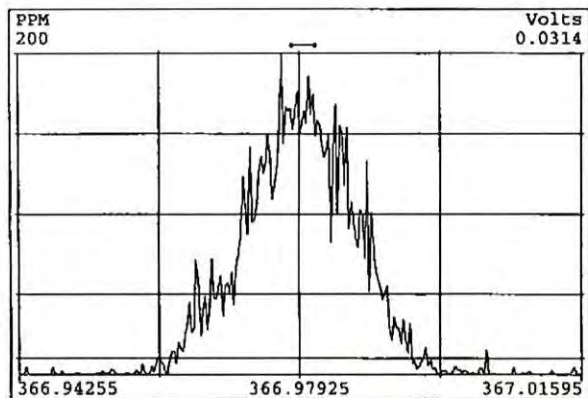
Peak Locate Examination:23-MAR-2009:21:13 File:MM1_RES_CHECK
Experiment:DP_CL4-8 Function:1 Reference:PFK2



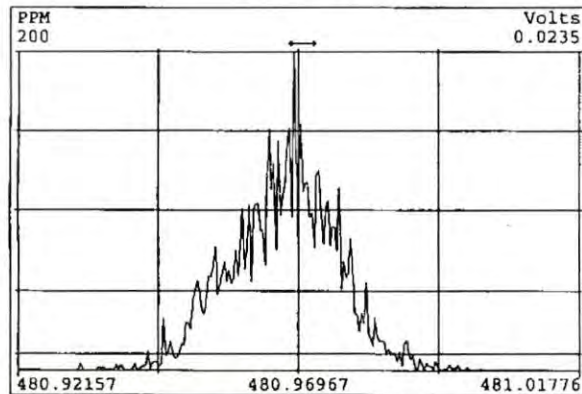
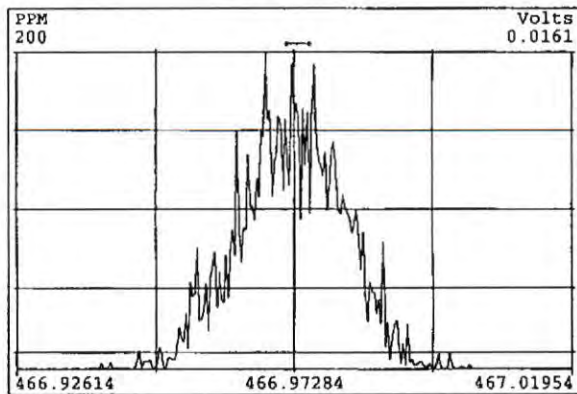
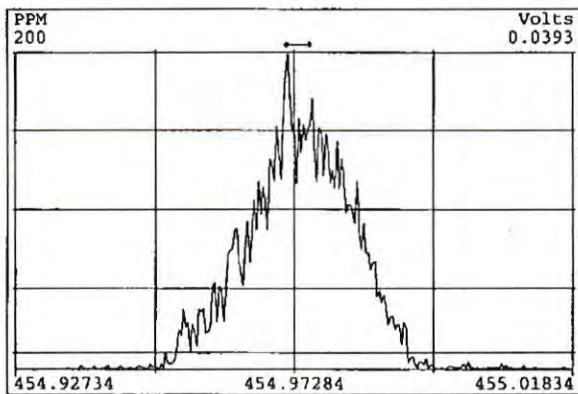
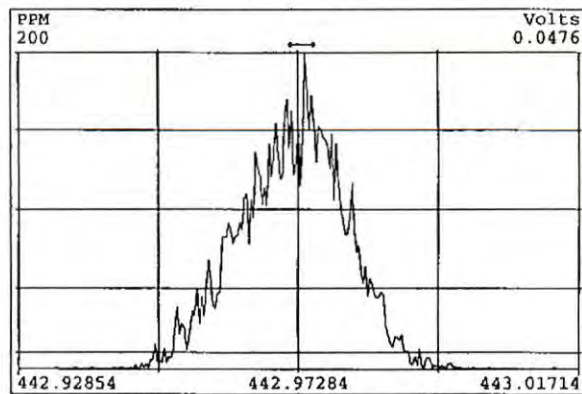
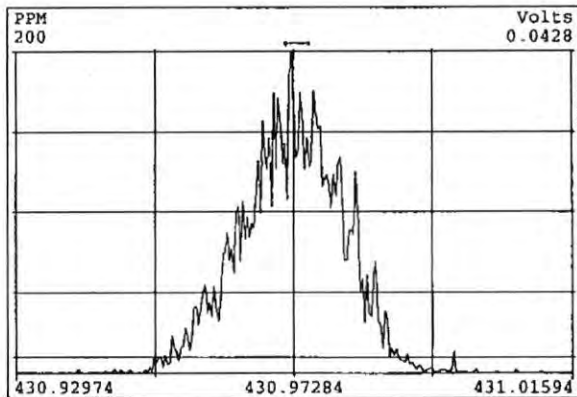
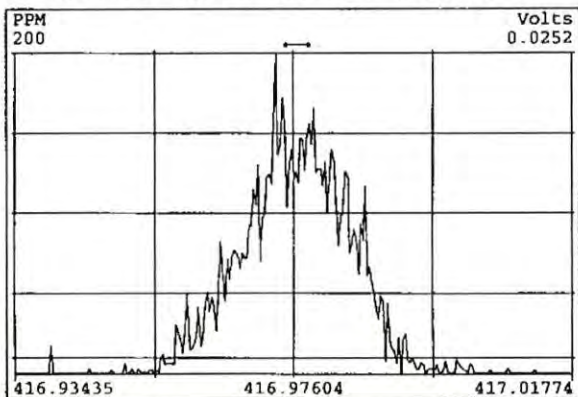
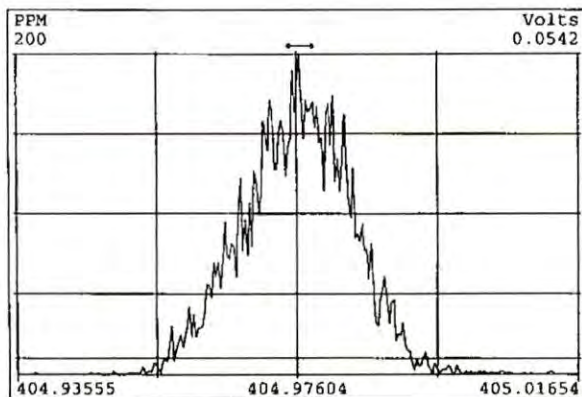
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Experiment:DF_CL4-8 Function:2 Reference:PFK2



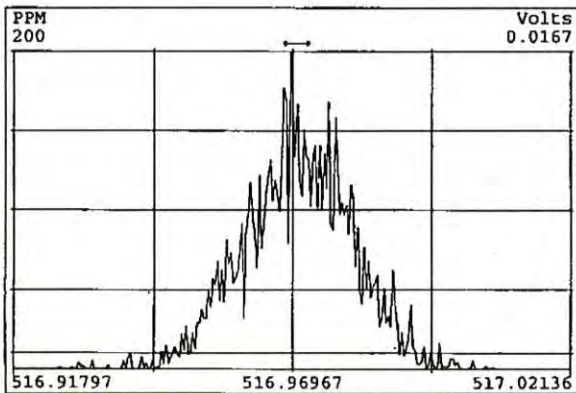
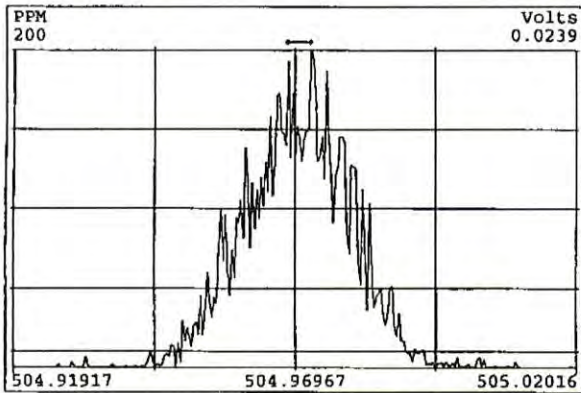
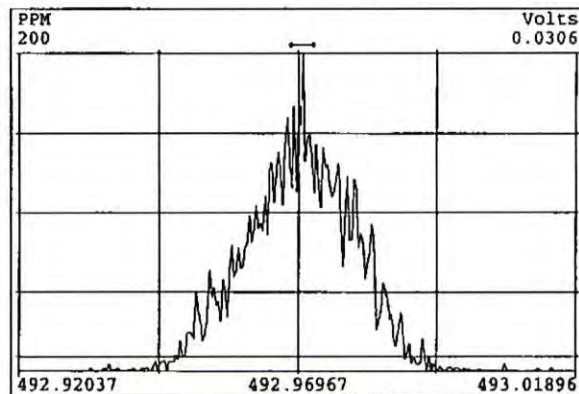
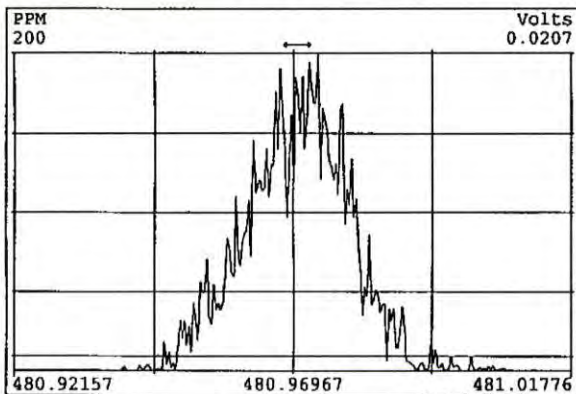
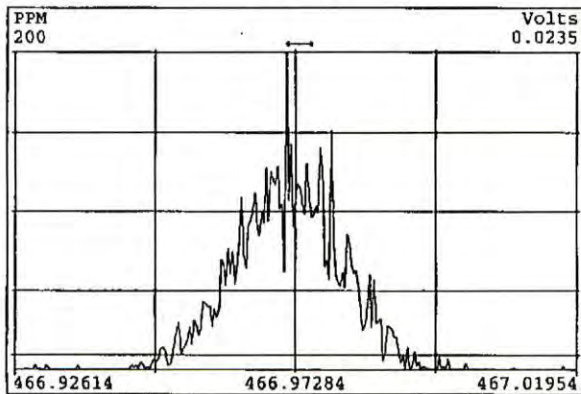
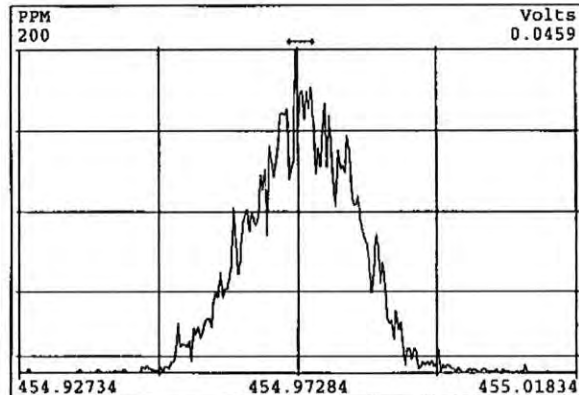
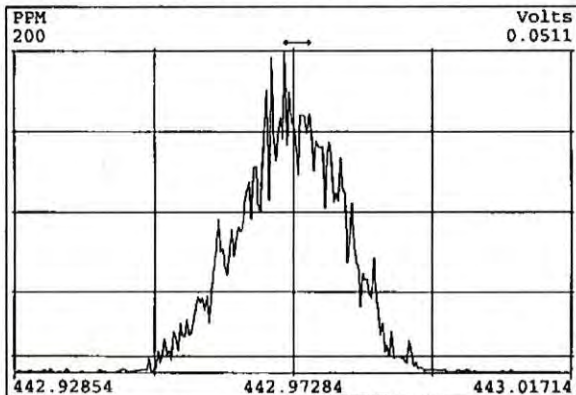
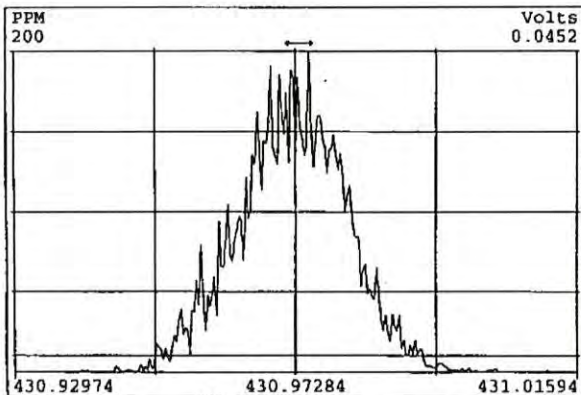
Peak Locate Examination:23-MAR-2009:21:15 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:3 Reference:PPK2



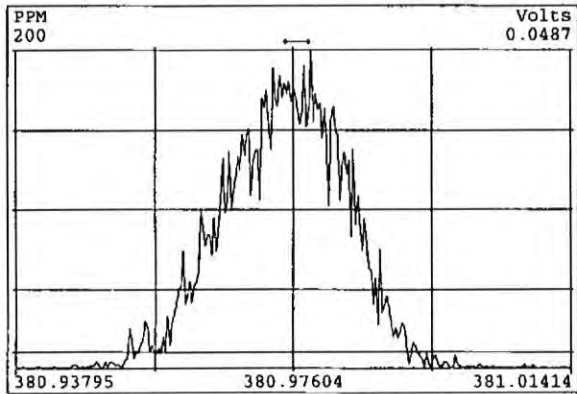
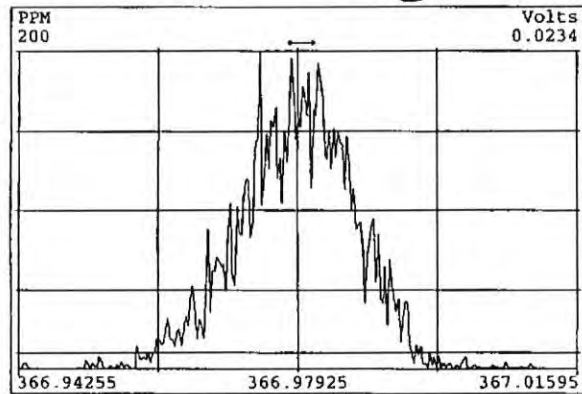
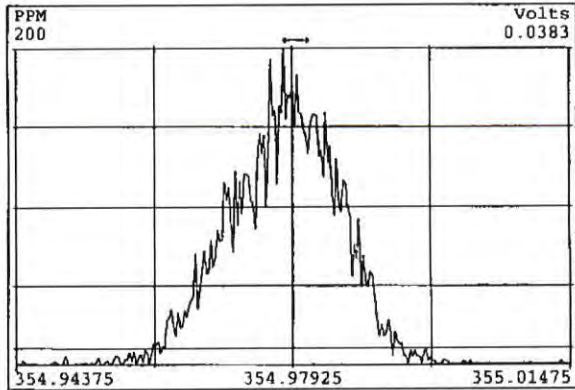
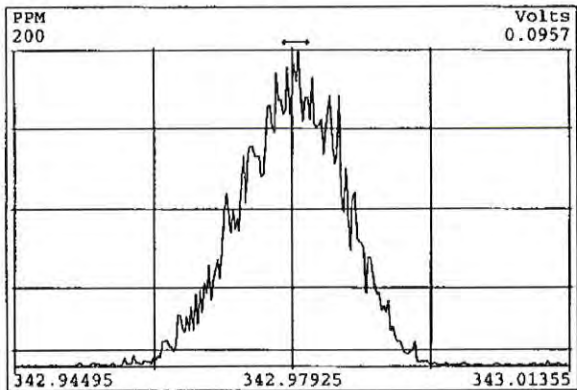
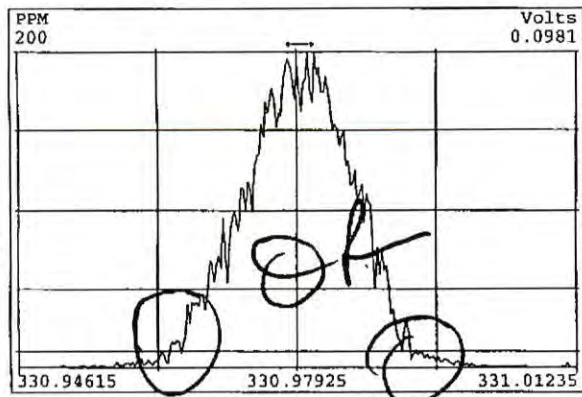
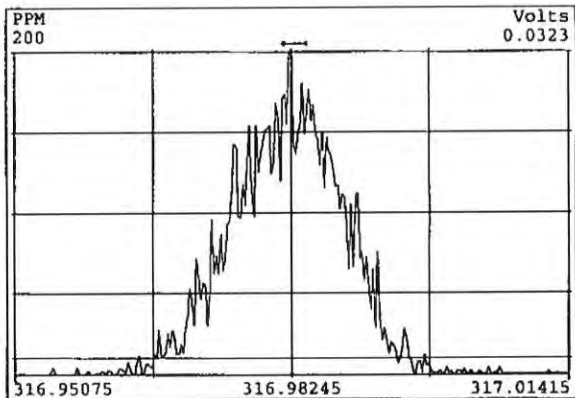
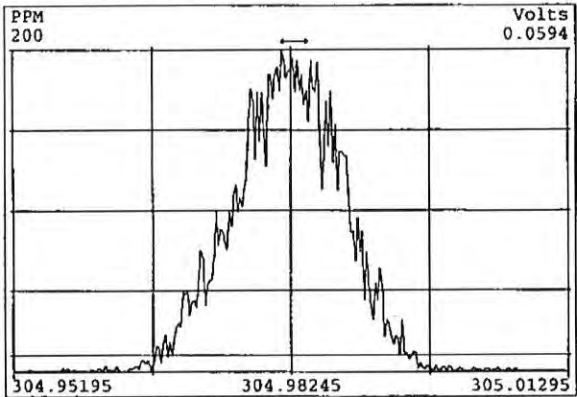
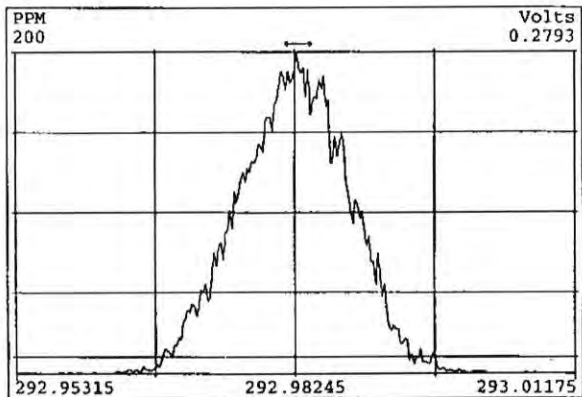
Peak Locate Examination:23-MAR-2009:21:16 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:4 Reference:PFK2



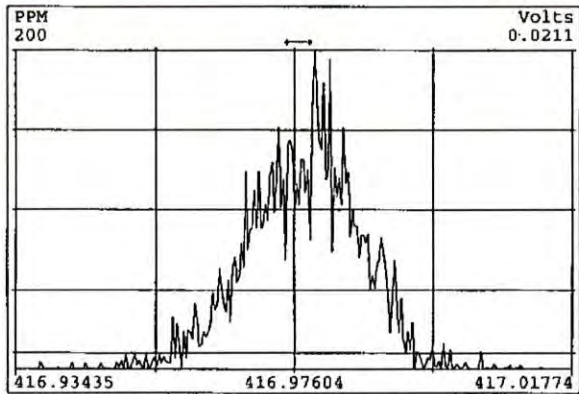
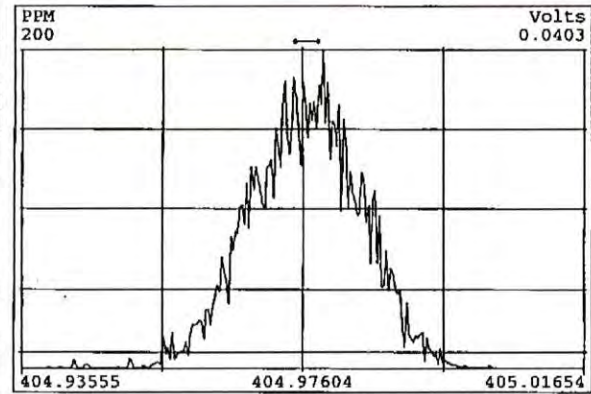
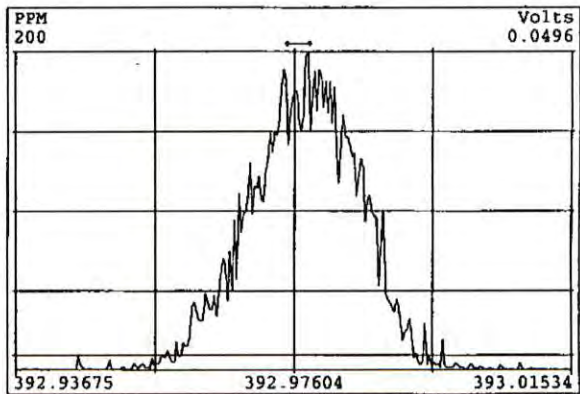
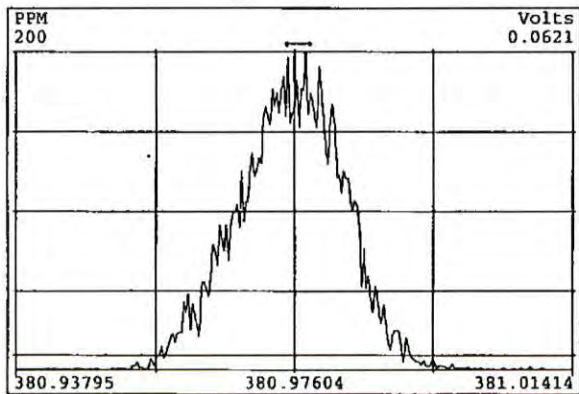
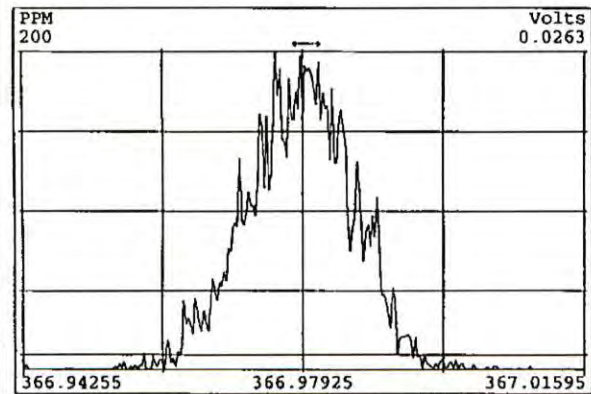
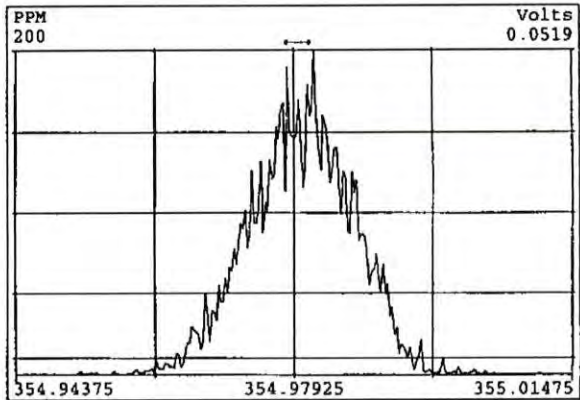
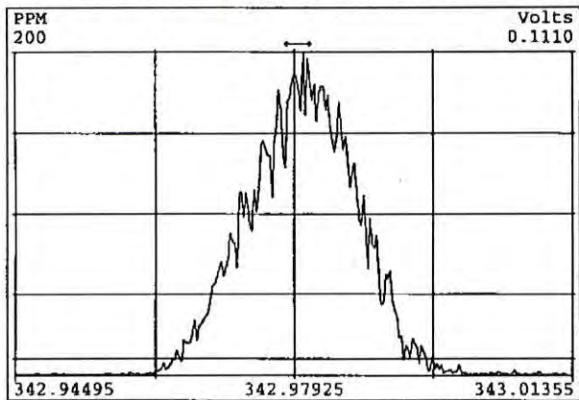
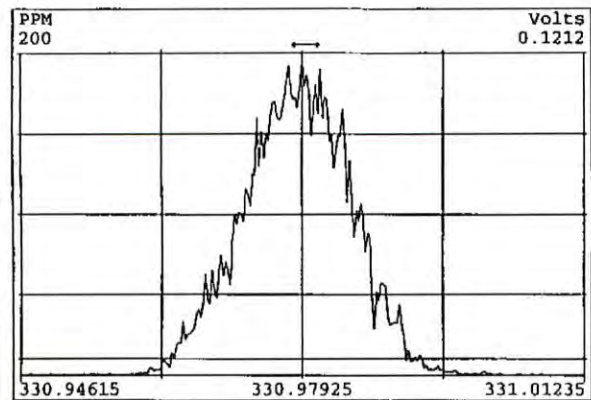
Peak Locate Examination: 23-MAR-2009:21:17 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:5 Reference:PFK2



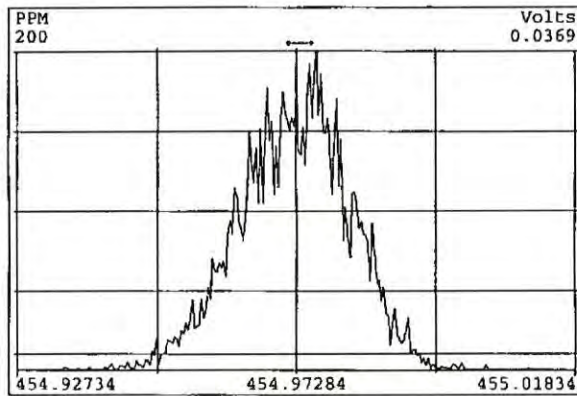
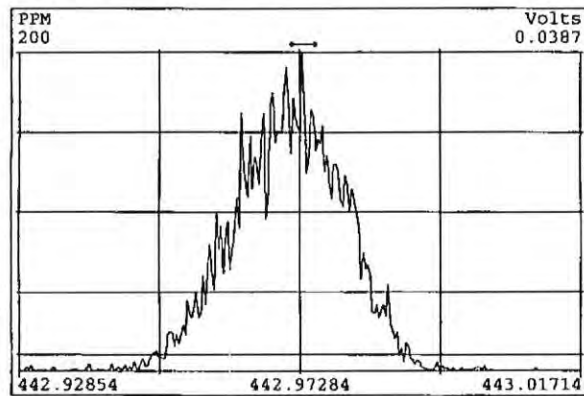
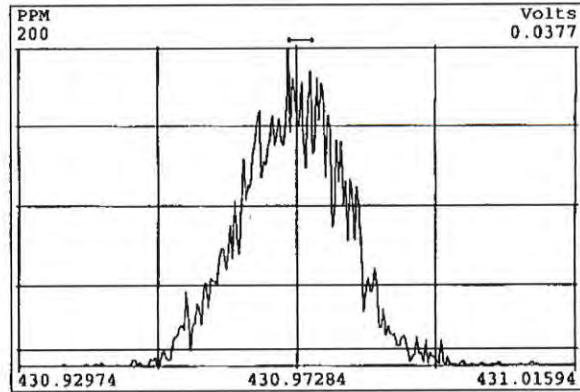
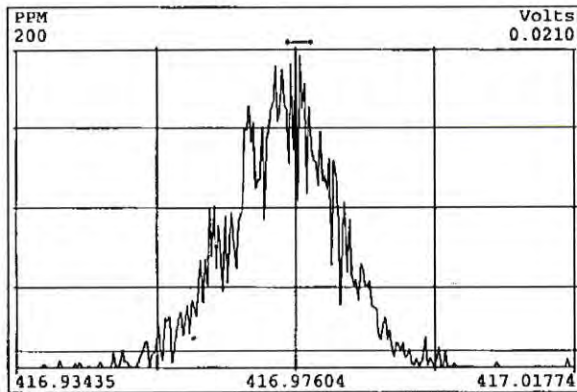
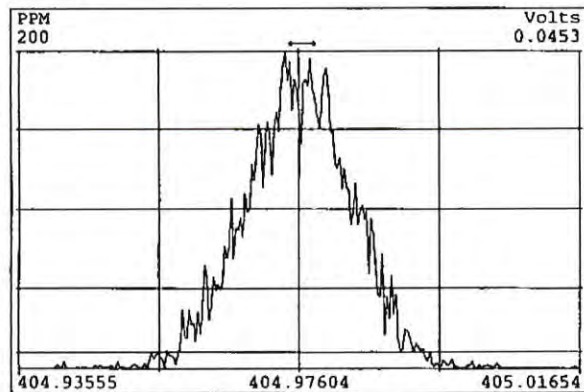
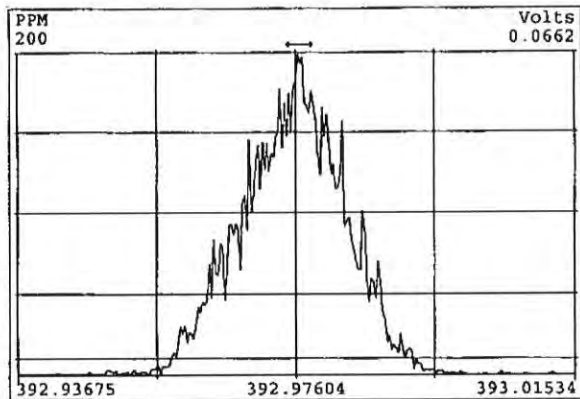
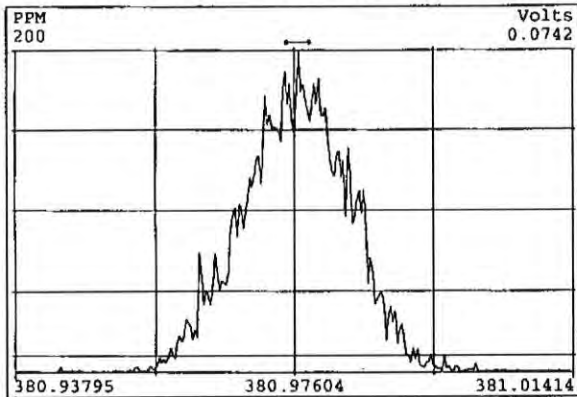
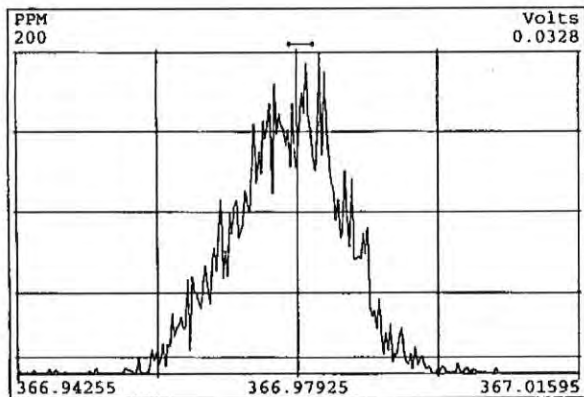
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Experiment: DF_CL4-8 Function: 1 Reference: PFK2



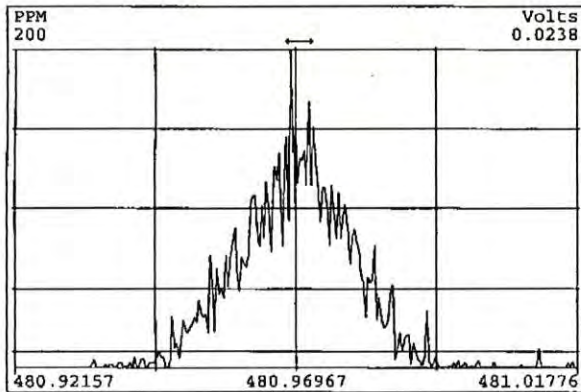
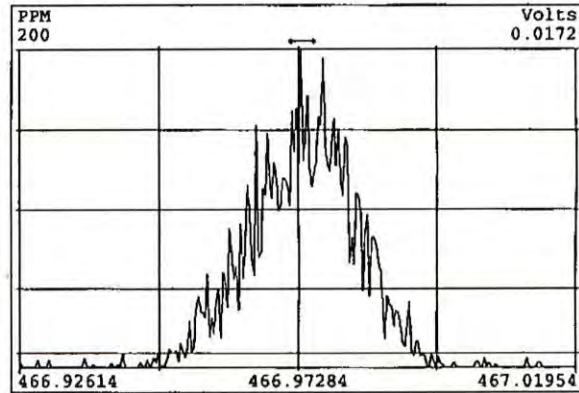
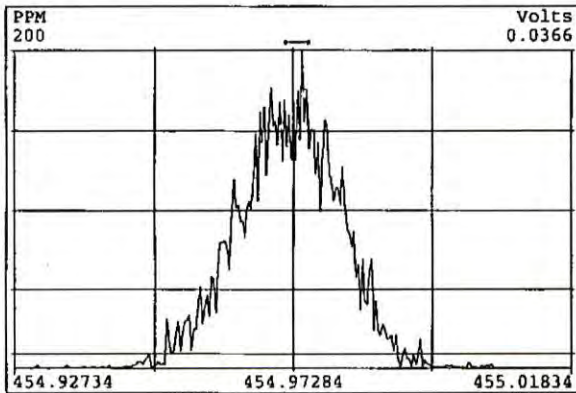
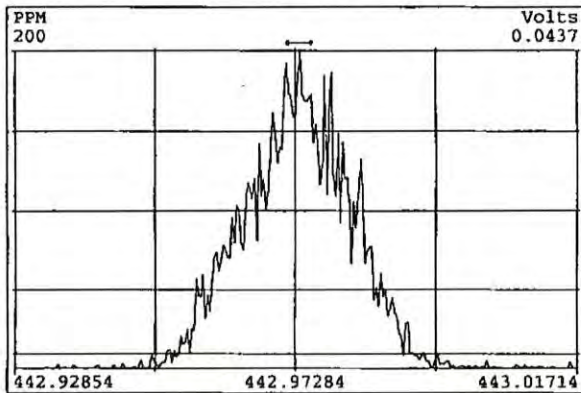
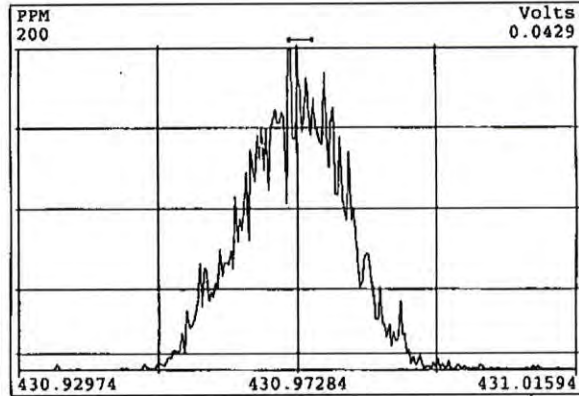
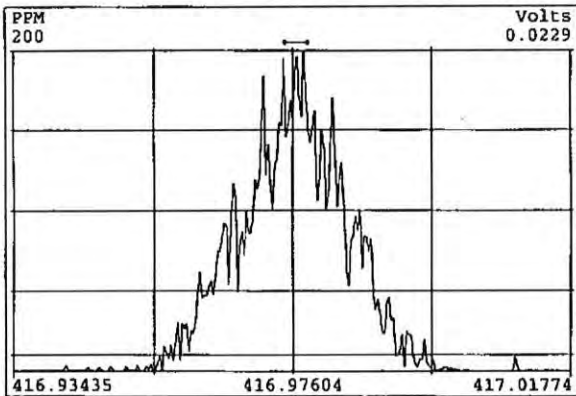
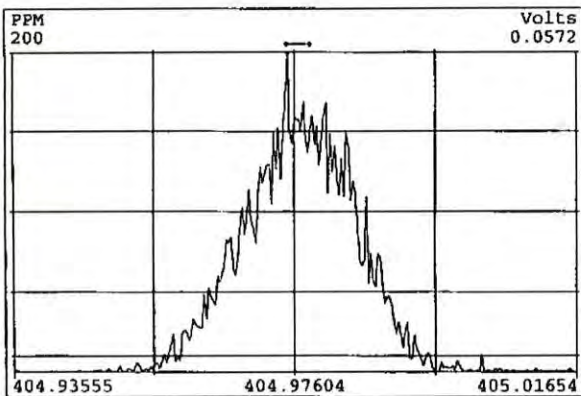
Peak Locate Examination: 24-MAR-2009:03:13 File: MML_RES_CHECK
Experiment: DF_CL4-8 Function: 2 Reference: PFK2



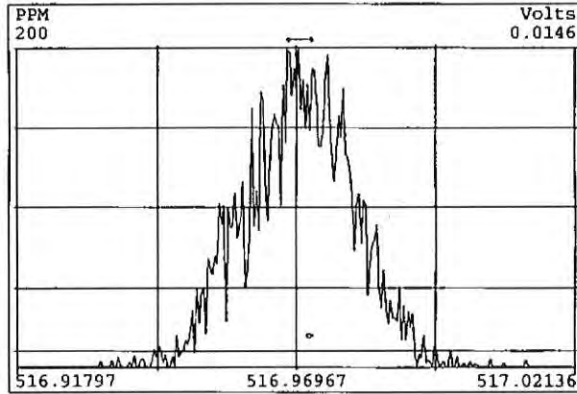
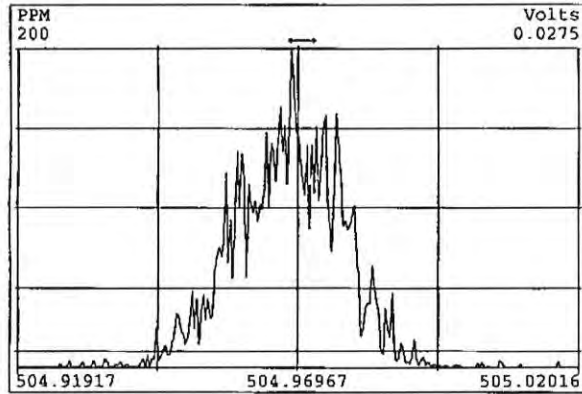
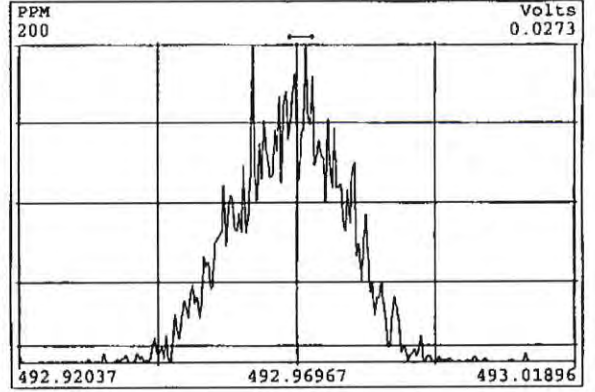
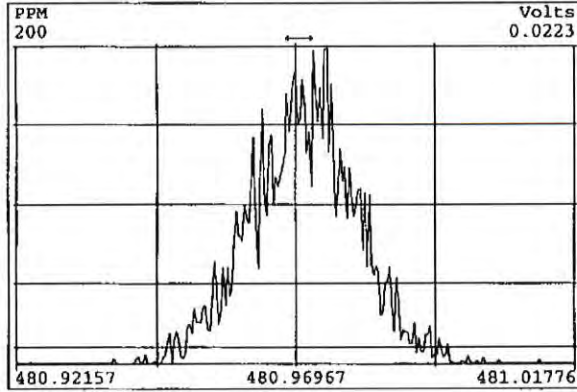
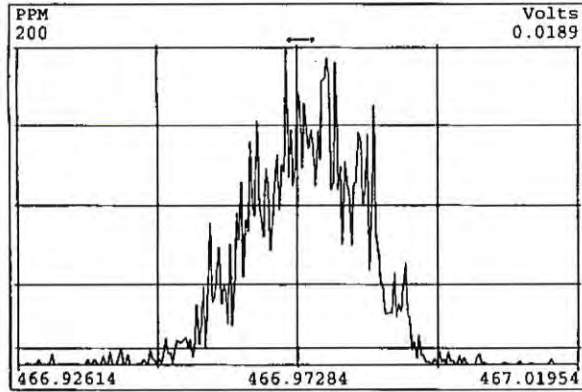
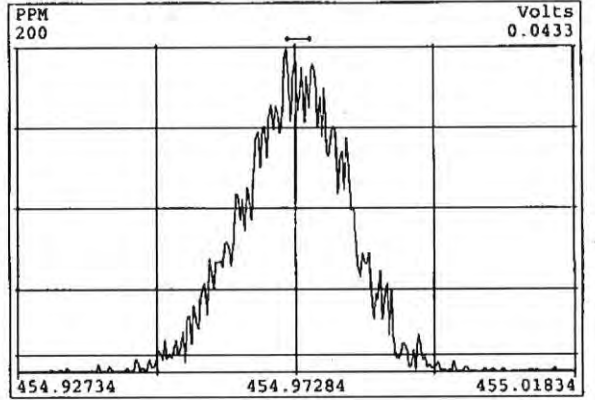
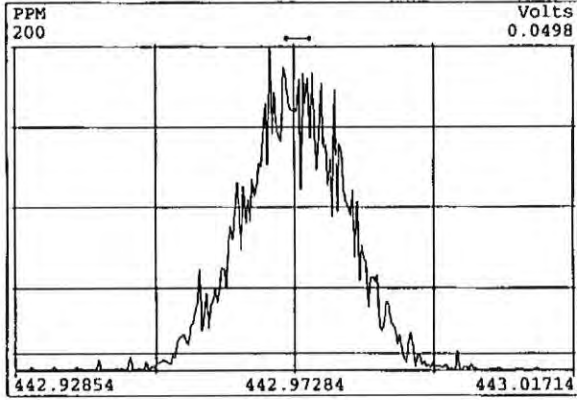
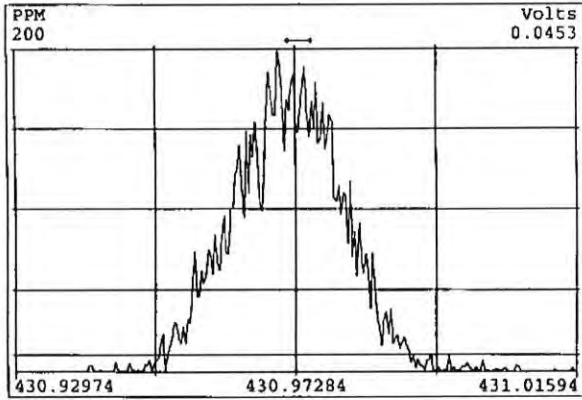
Peak Locate Examination:24-MAR-2009:03:14 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:3 Reference:PFK2



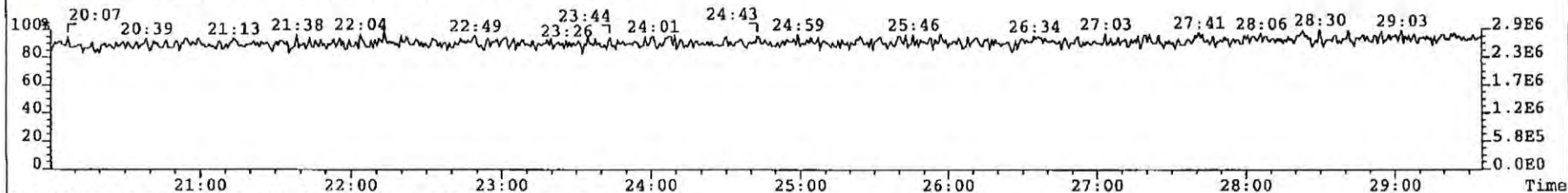
Peak Locate Examination: 24-MAR-2009:03:15 File: MM1_RES_CHECK
Experiment: DF_CL4-8 Function: 4 Reference: PFK2



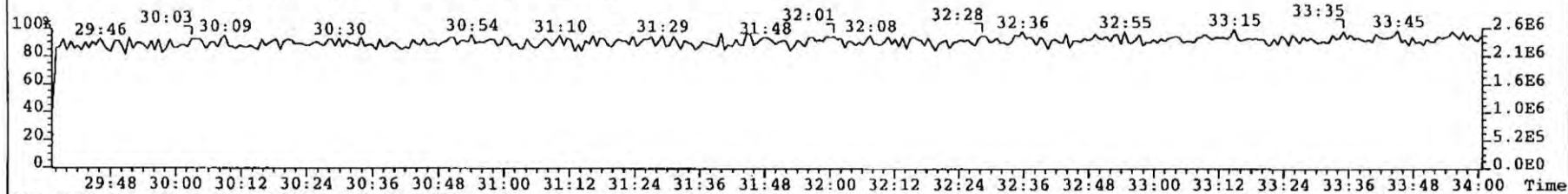
Peak Locate Examination:24-MAR-2009:03:16 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:5 Reference:PFK2



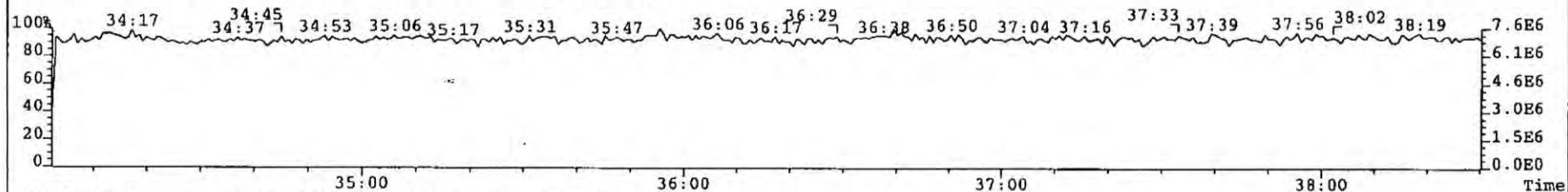
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



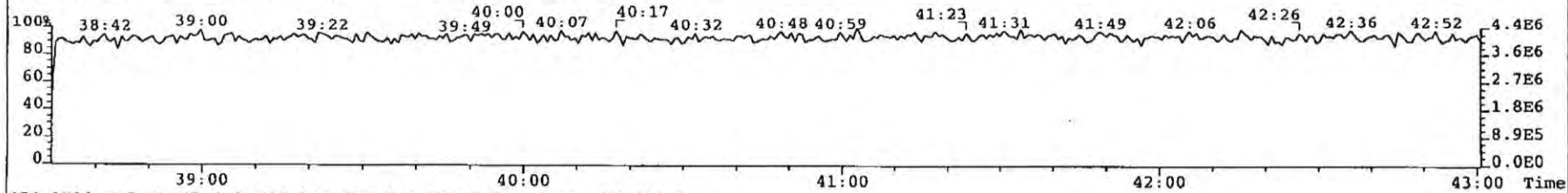
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



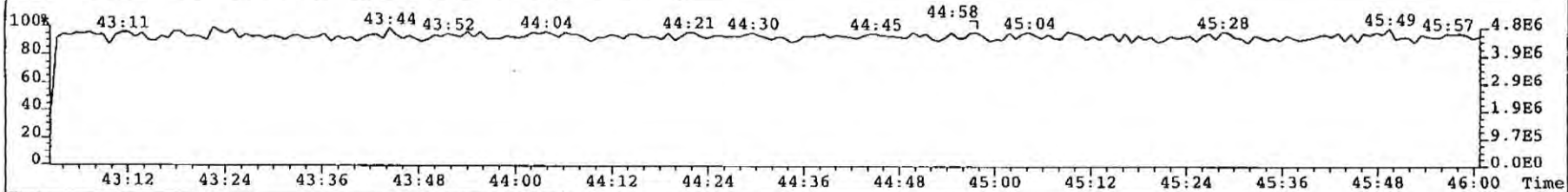
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



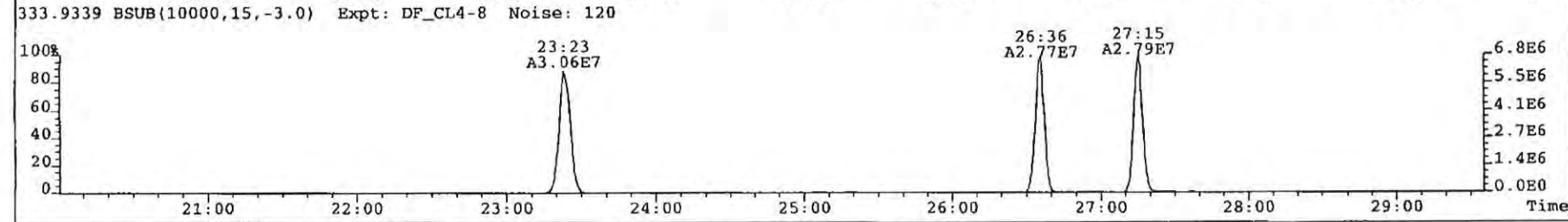
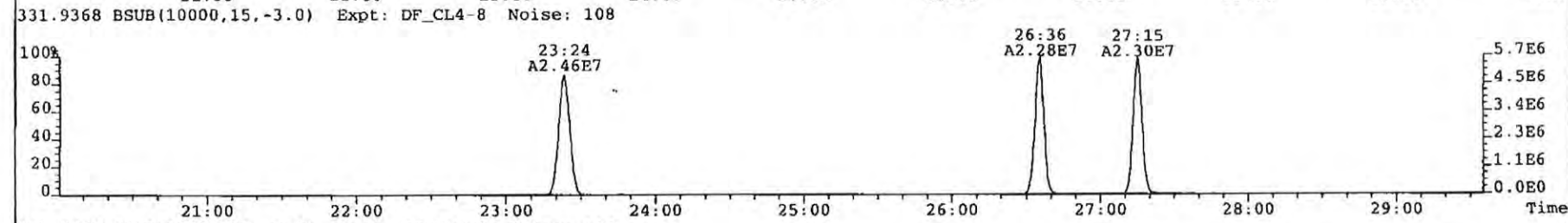
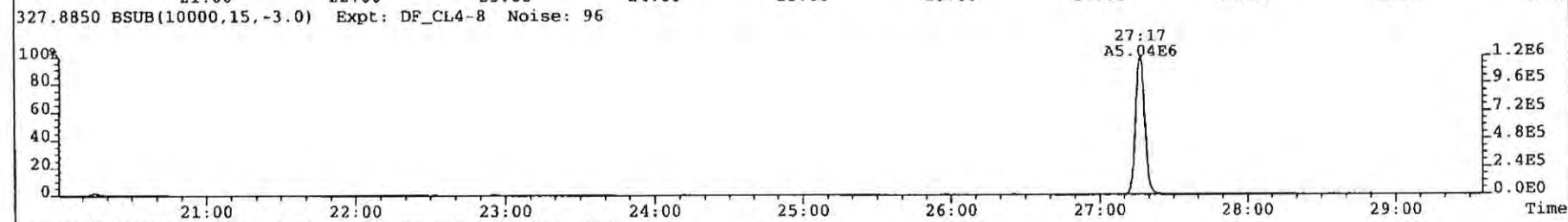
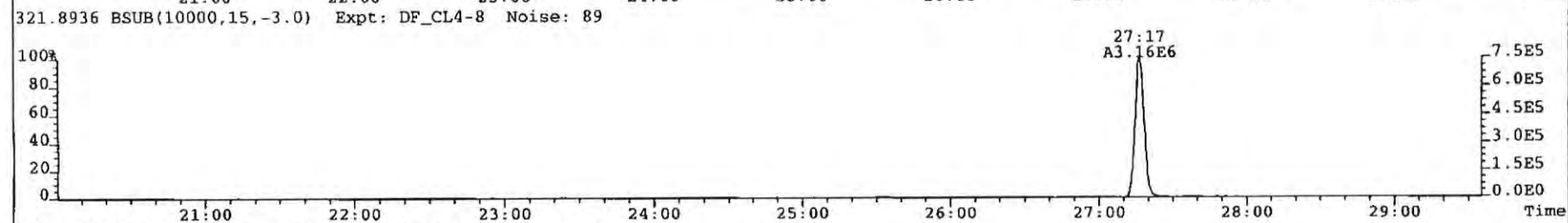
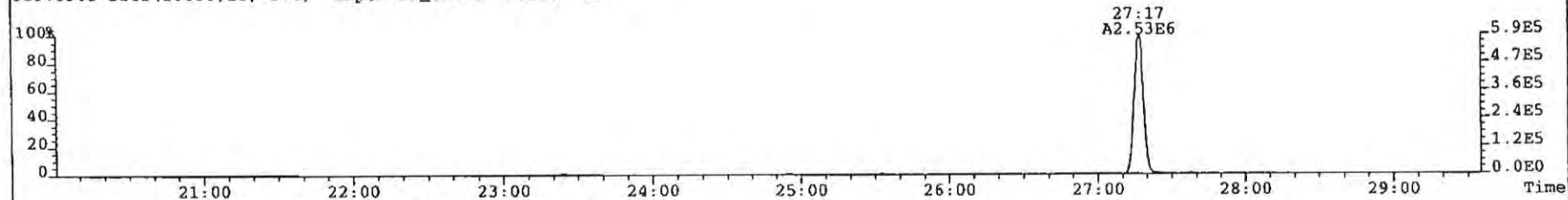
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



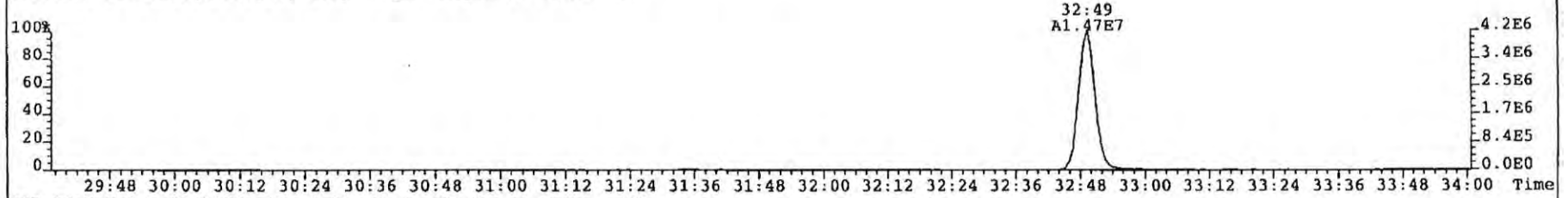
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



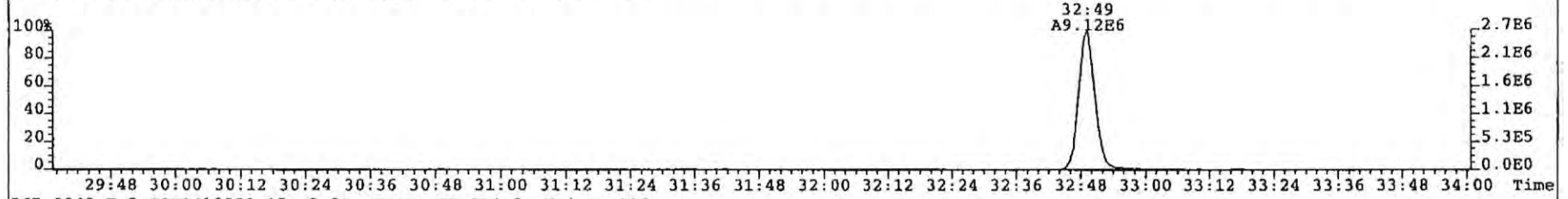
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
319.8965 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 82



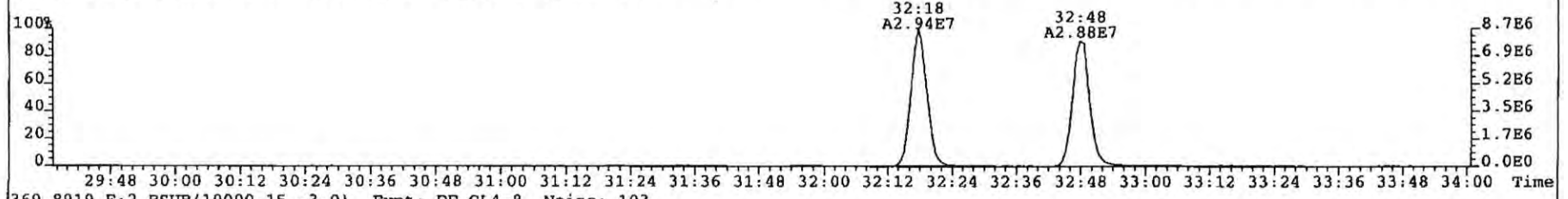
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
355.8546 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 86



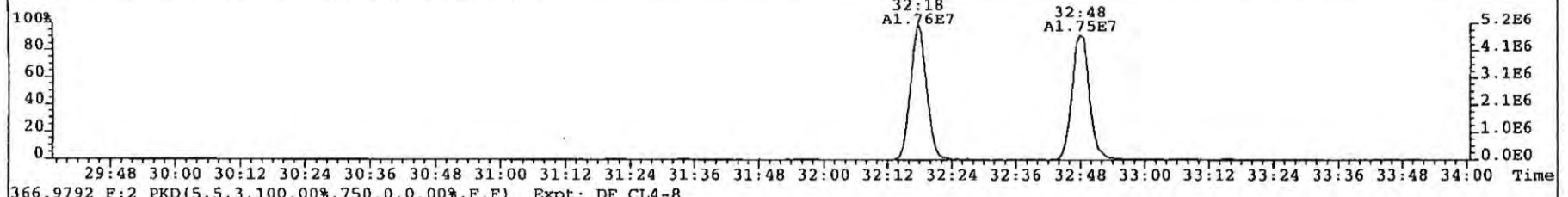
357.8517 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 102



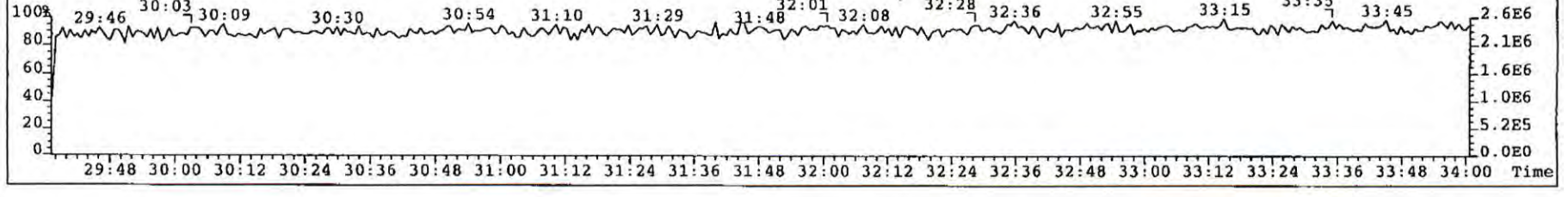
367.8949 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 114



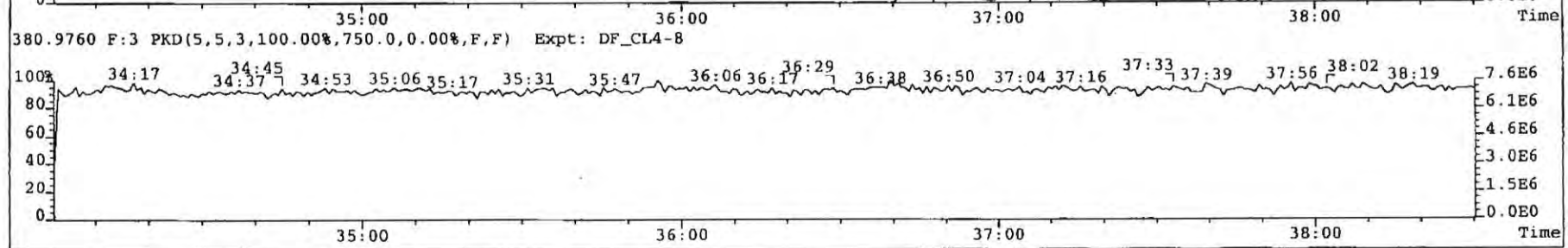
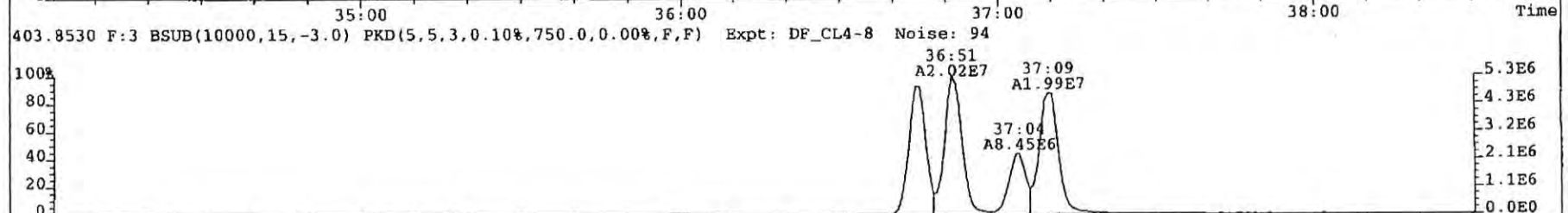
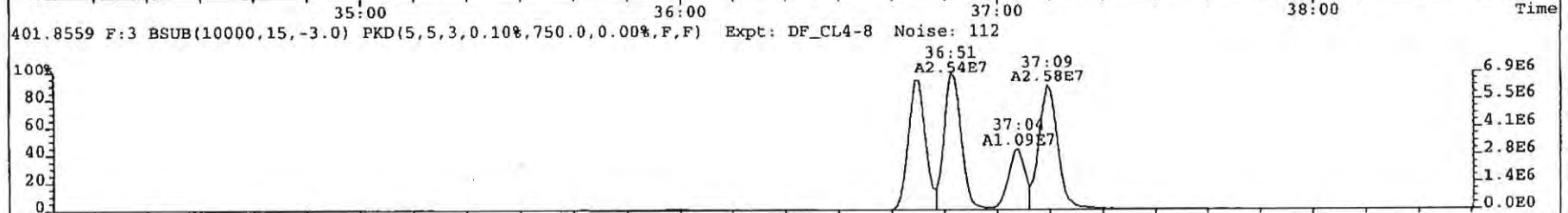
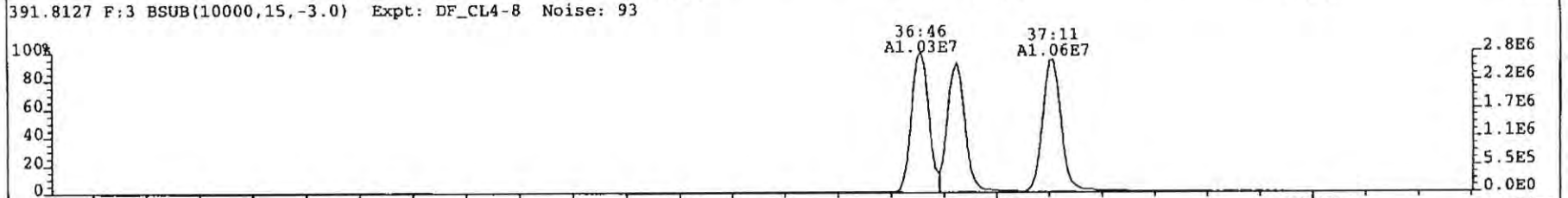
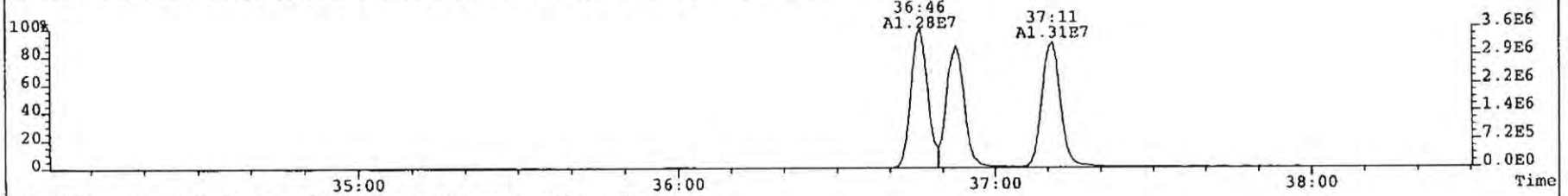
369.8919 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 103



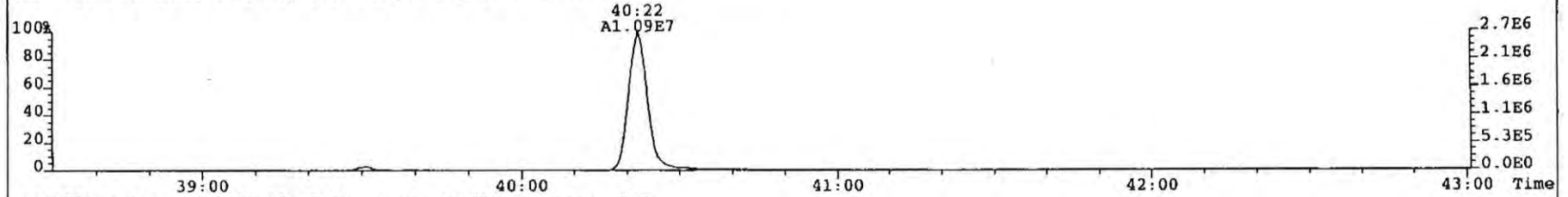
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



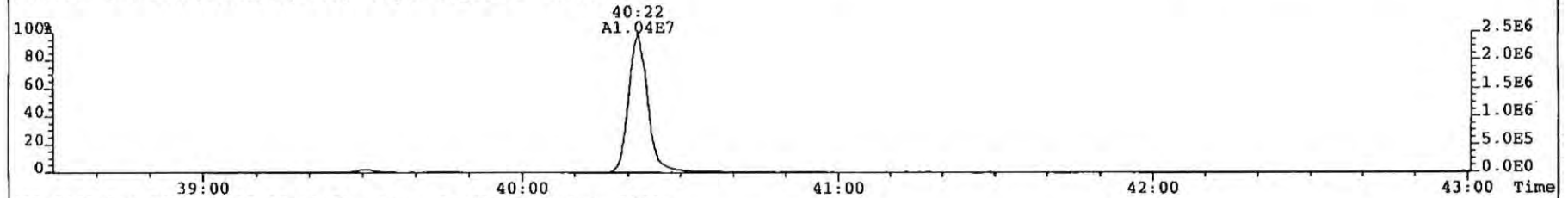
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 87



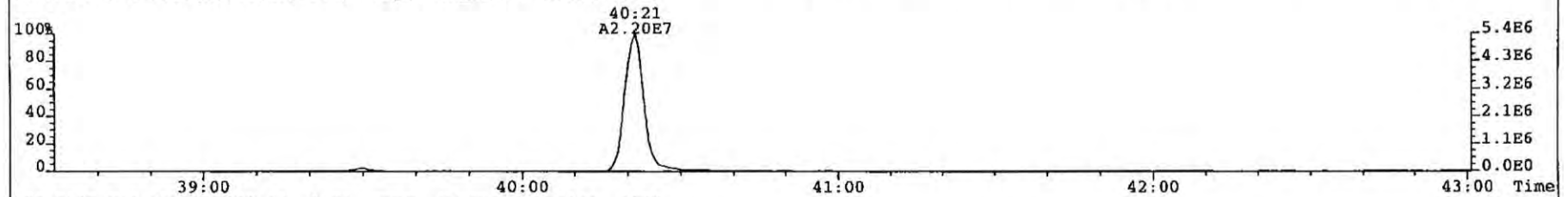
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
423.7767 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 740



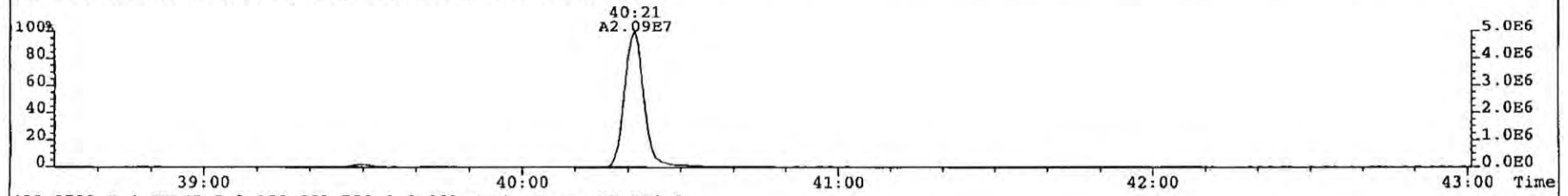
425.7737 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 948



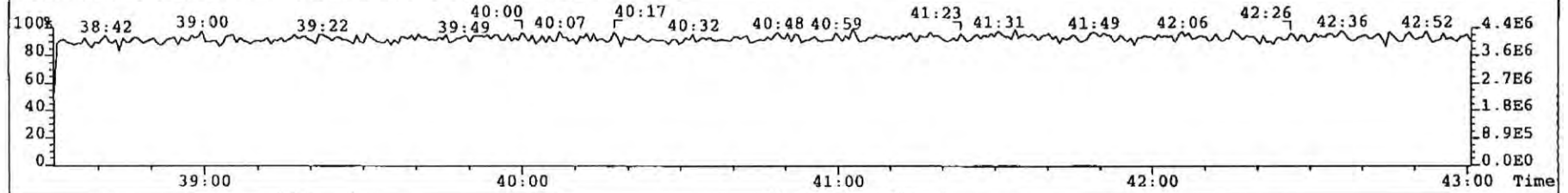
435.8169 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1999



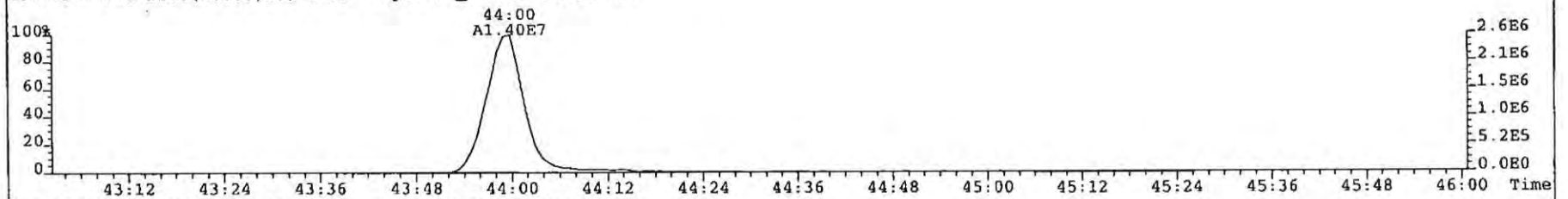
437.8140 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1266



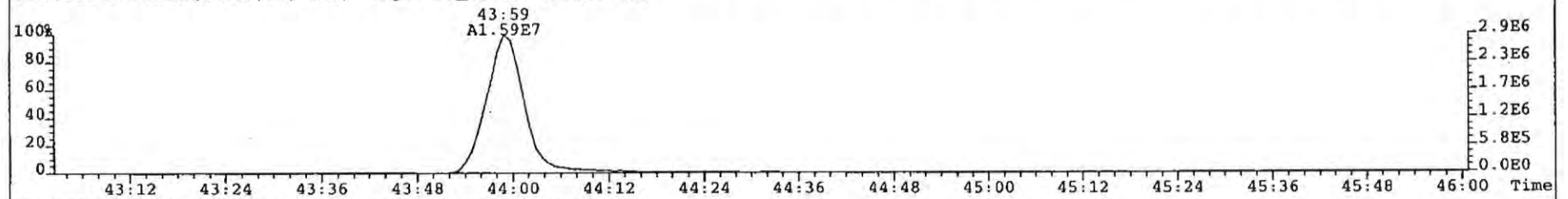
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



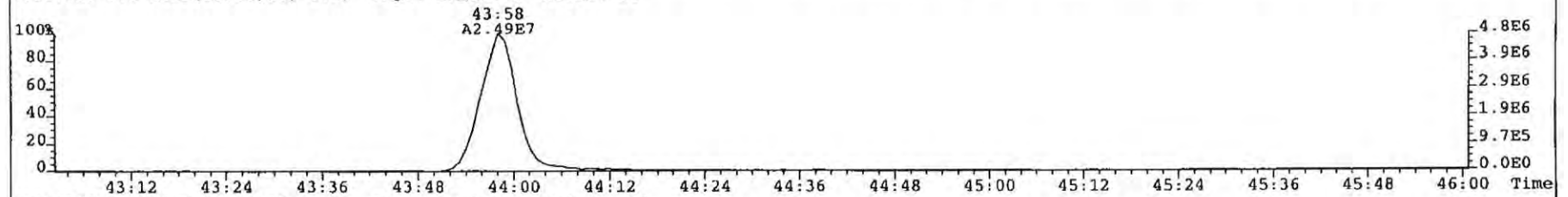
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
457.7377 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 66



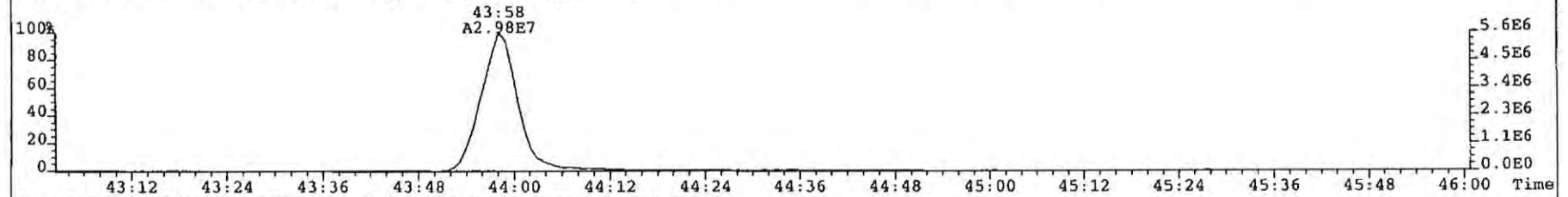
459.7348 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 230



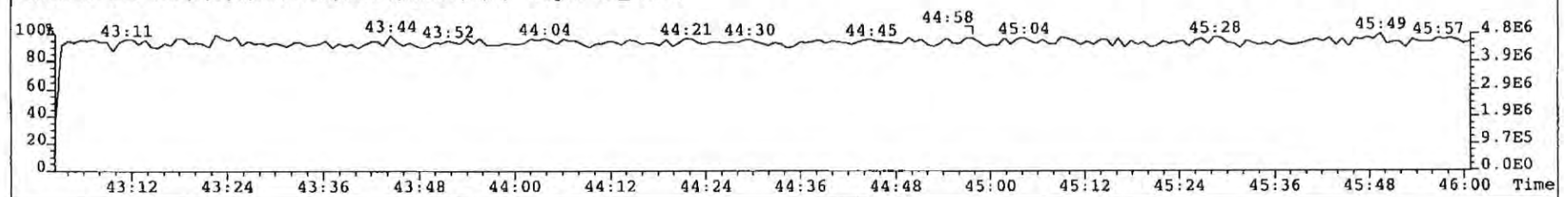
469.7780 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 84



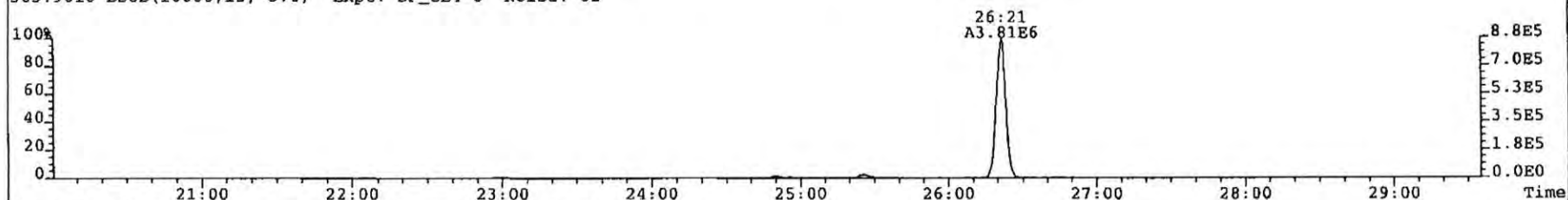
471.7750 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 626



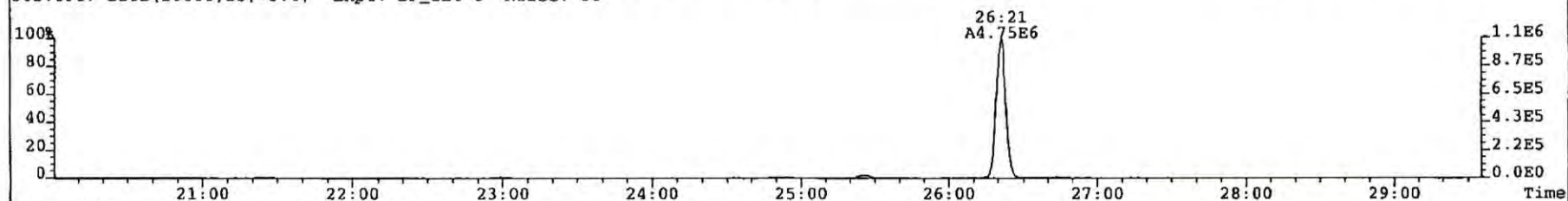
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



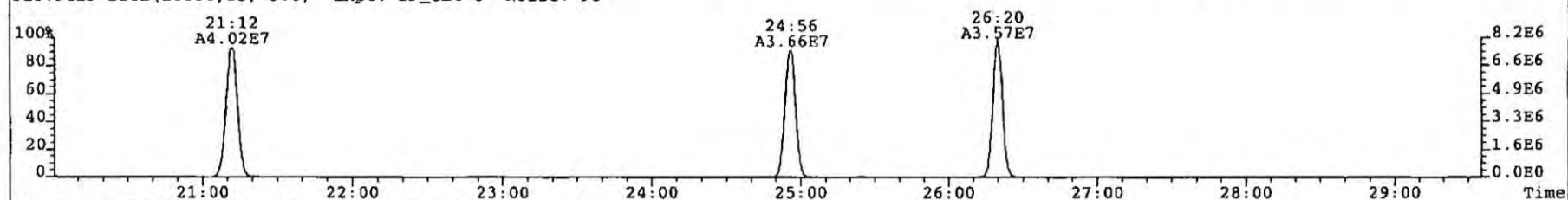
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
303.9016 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 82



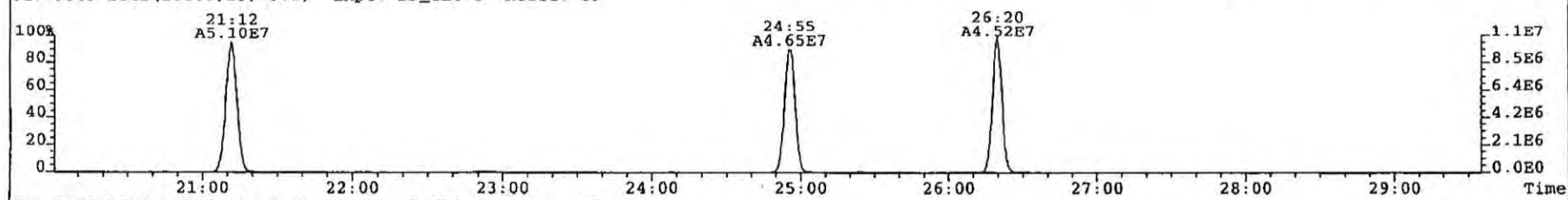
305.8987 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 86



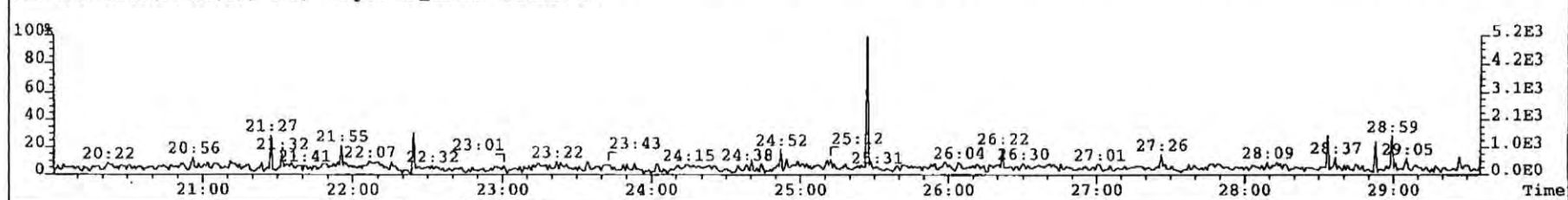
315.9419 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 95



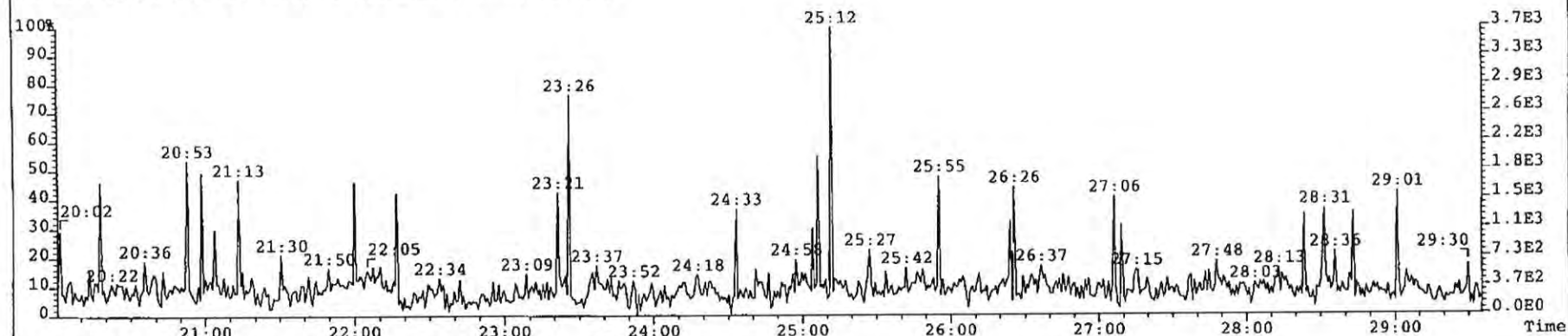
317.9389 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



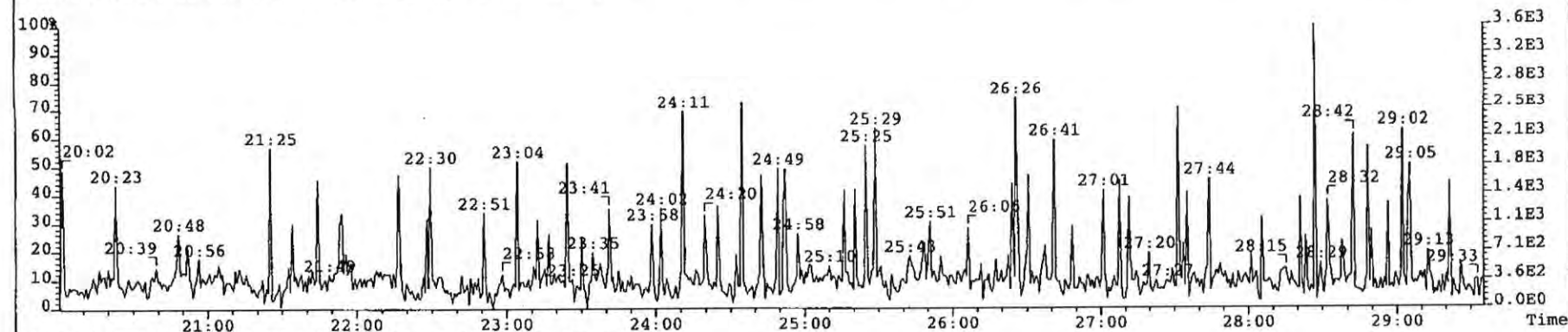
375.8364 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 87



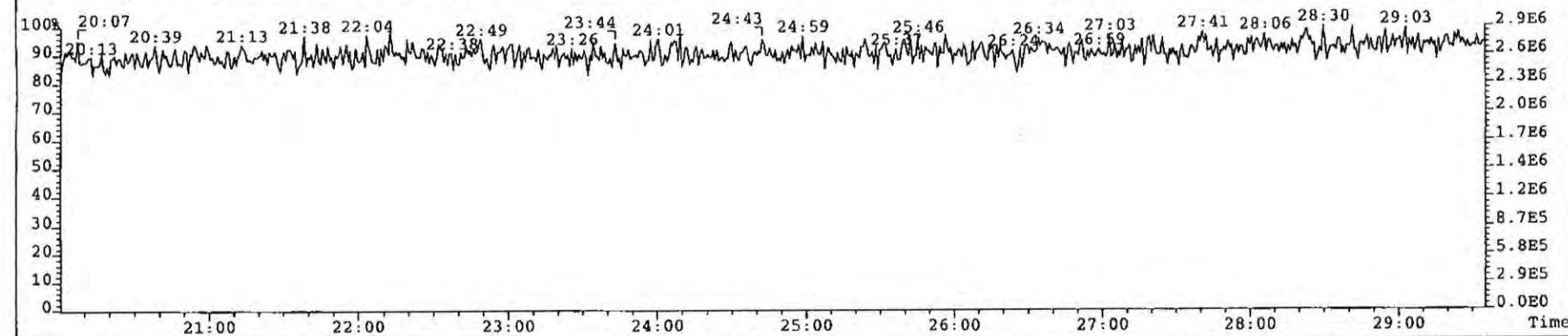
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
339.8597 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 102



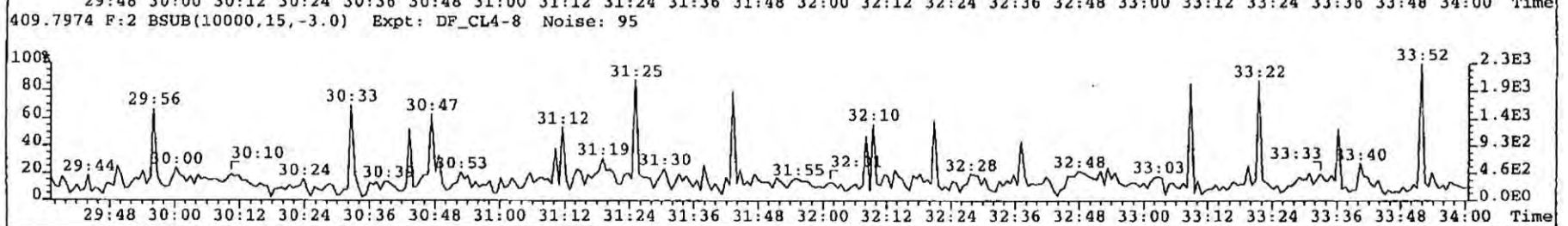
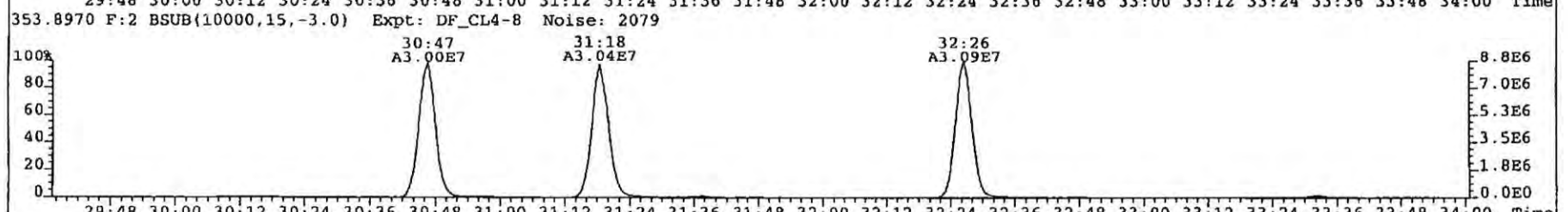
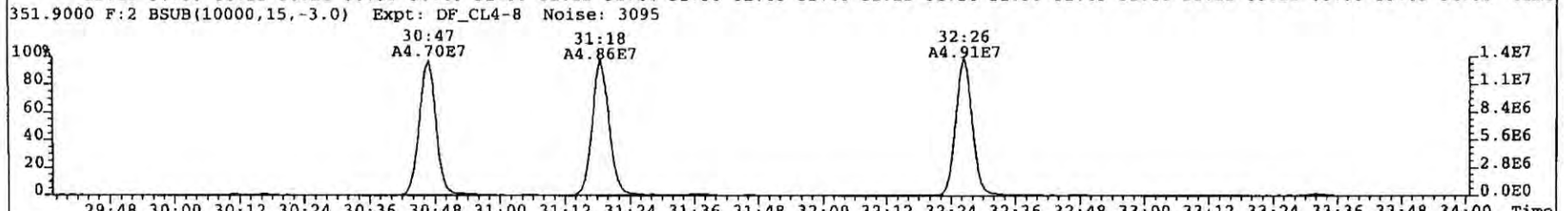
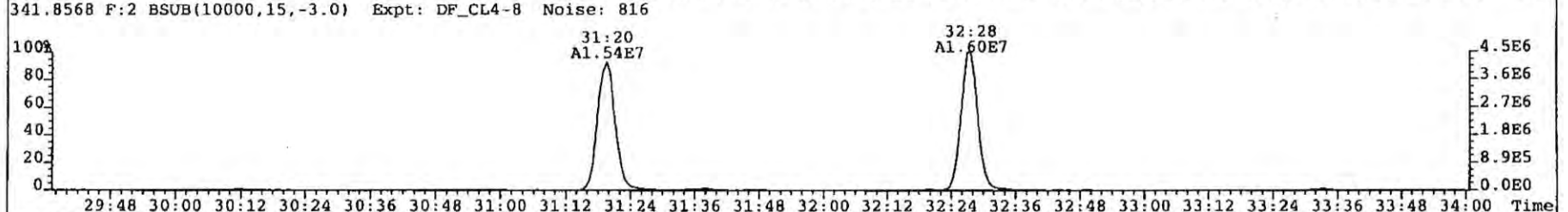
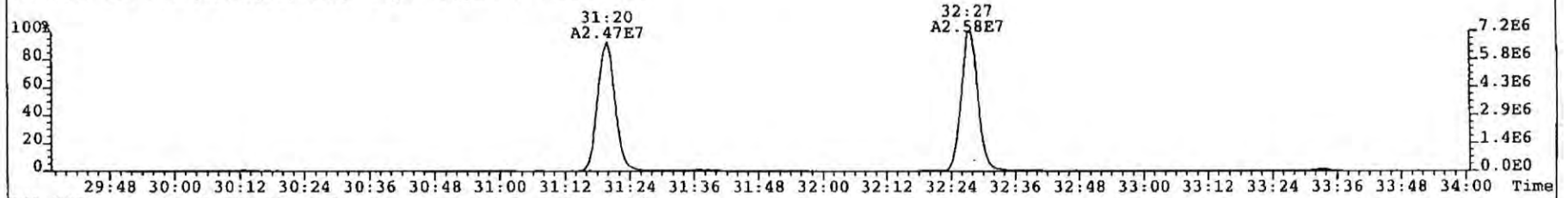
341.8568 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 103



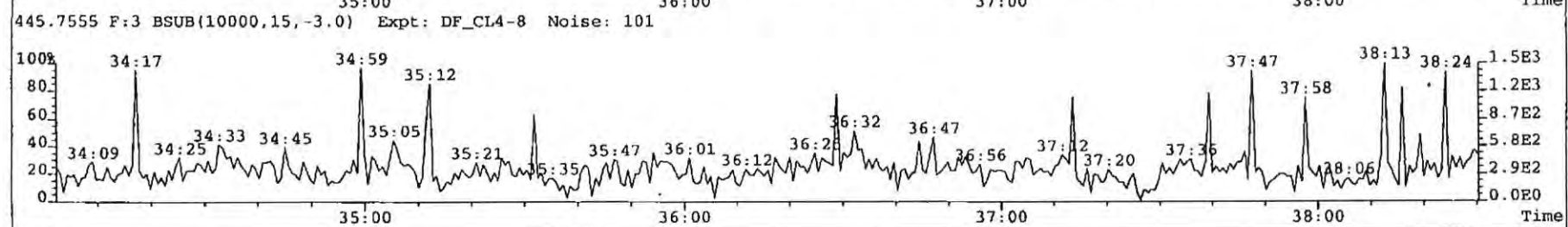
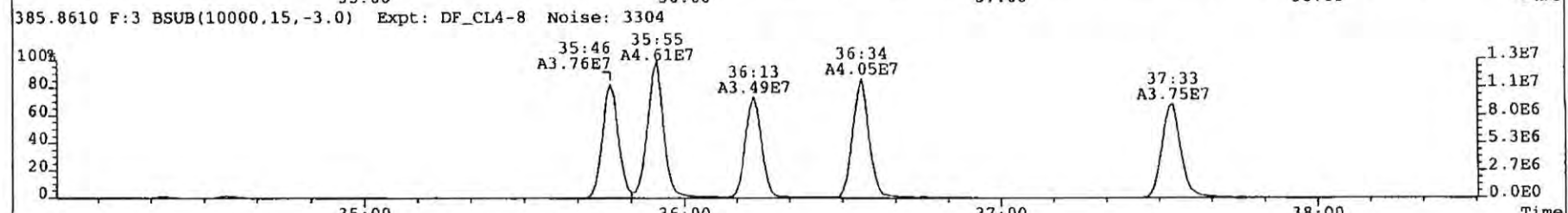
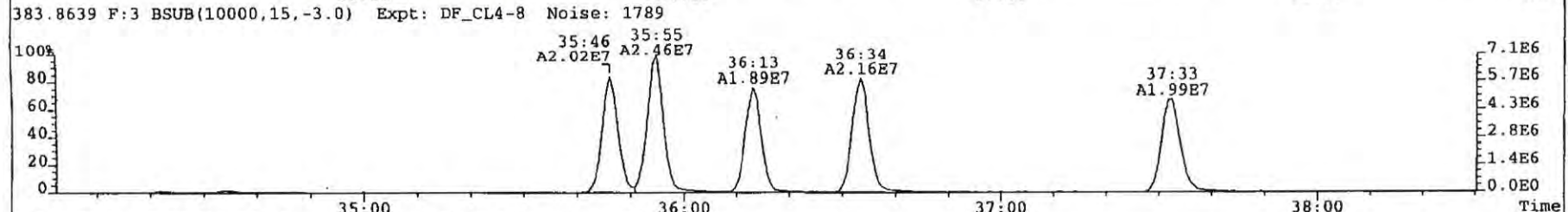
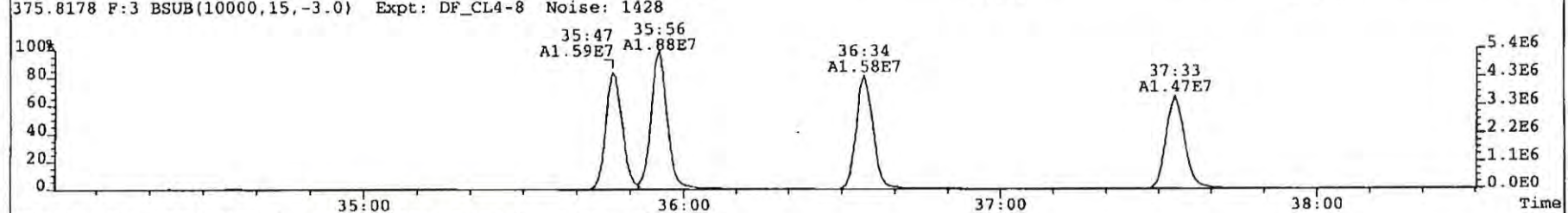
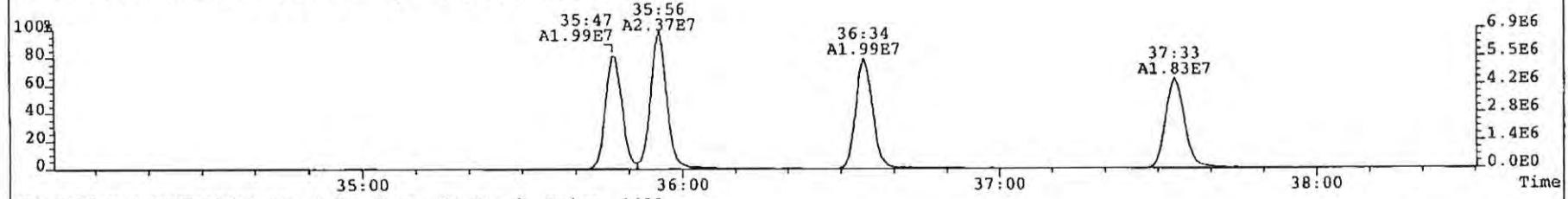
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



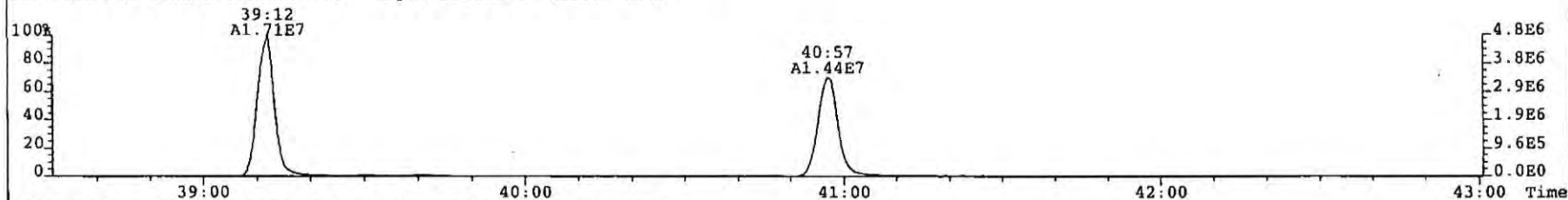
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
339.8597 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 820



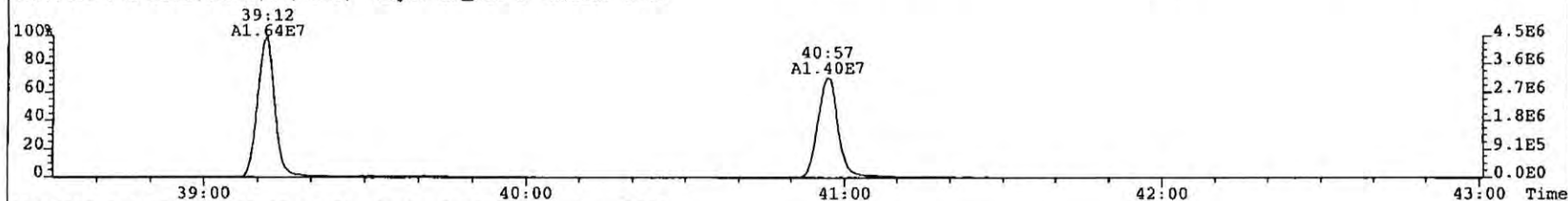
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
373.8207 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1066



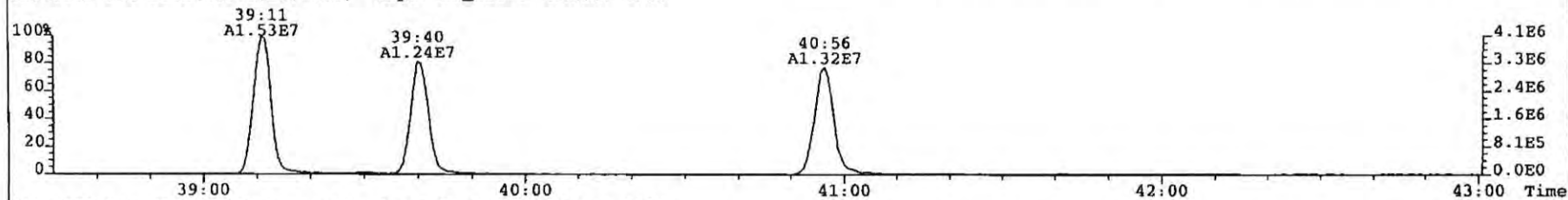
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
407.7818 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1226



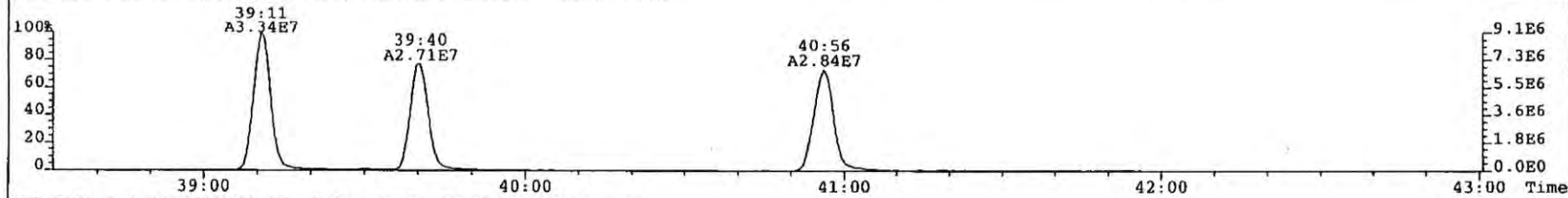
409.7788 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1059



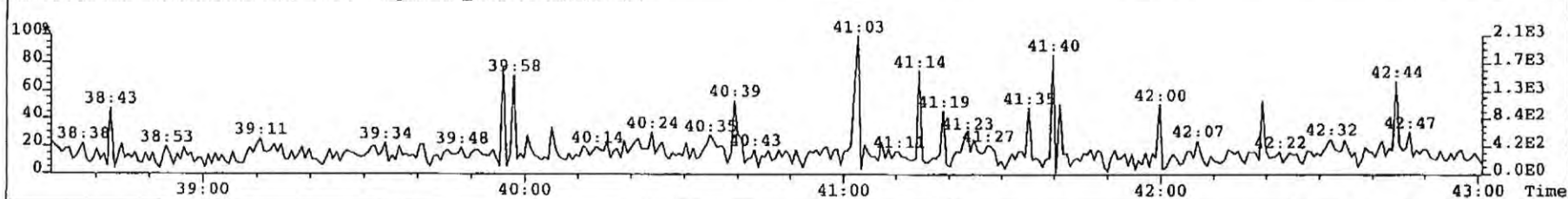
417.8253 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1788



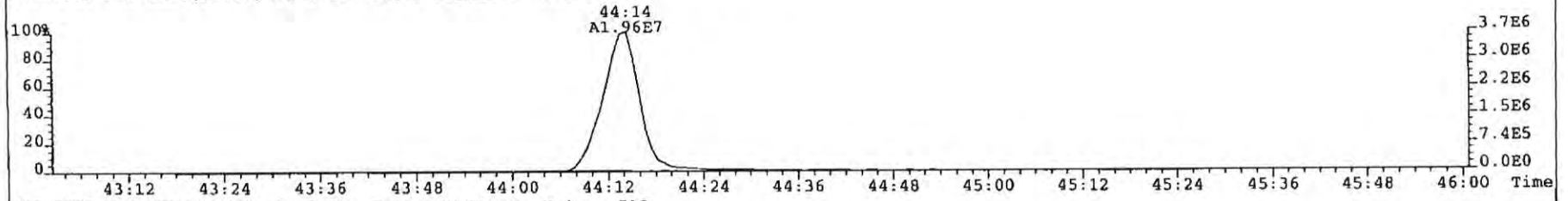
419.8220 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 3390



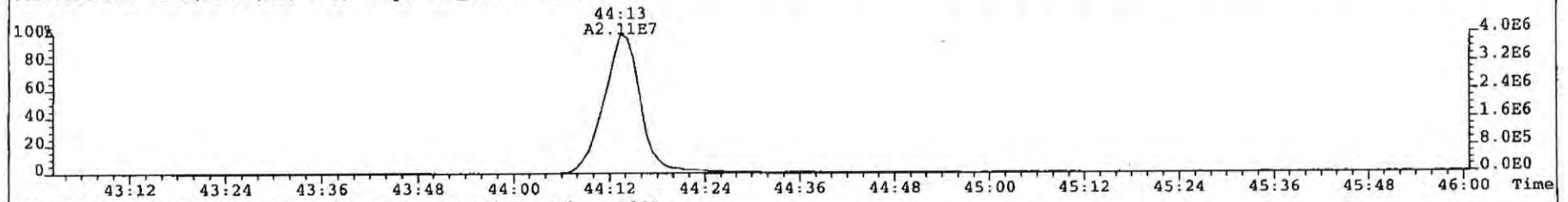
479.7165 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 94



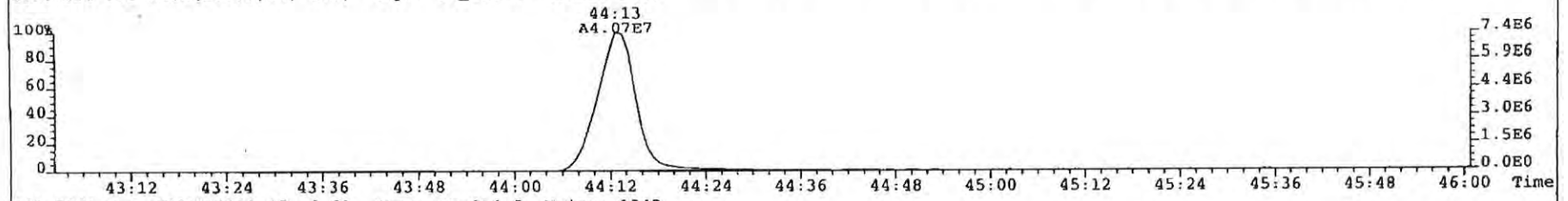
File: 090323P2 Acq: 23-MAR-2009 21:18:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5
441.7428 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 256



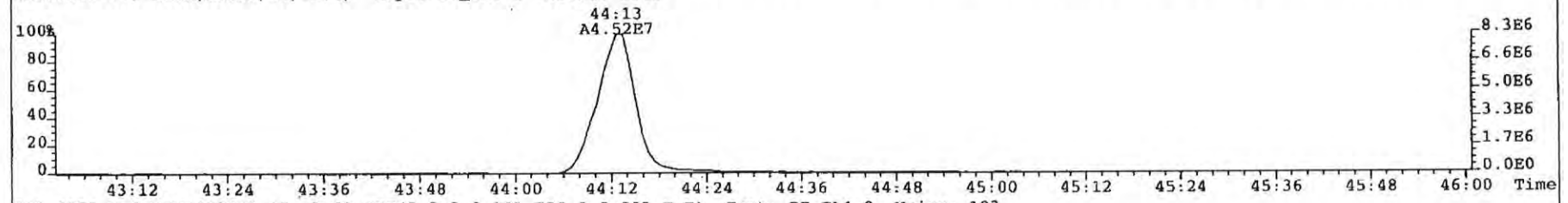
443.7398 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 518



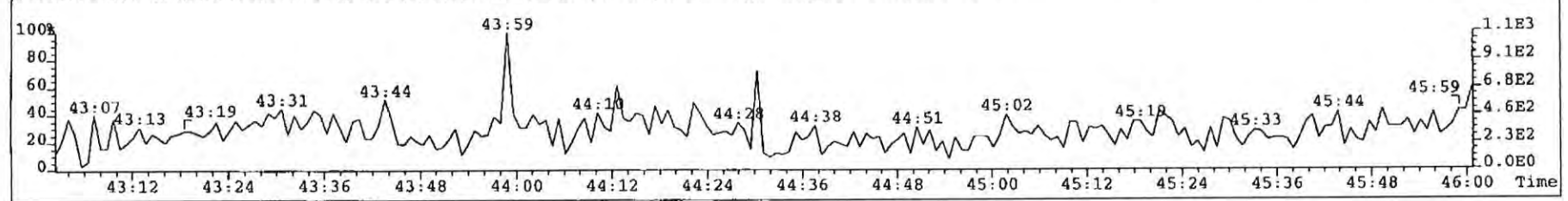
453.7830 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1305



455.7801 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1242



513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 103



OK IM 30 Dec 08

Initial Calibration RRF Summary (ICAL)

Analytical Perspectives

[Form: RRF7]

Cal filename: MM1_DF_07012007A_25DEC08


Cal date: 25-DEC-08

Data filename: 081225P1

Samp# 1 0.25 Samp# 2 0.50 Samp# 3 2.0 Samp# 4 10 Samp# 5 40 Samp# 6 200 Samp# 7 500

pg/ml

Type	Name	Mean	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
Ax	2,3,7,8-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Ax	1,2,3,7,8-PeCDD	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Ax	1,2,3,4,7,8-HxCDD	1.08	3.93 %	1.01	1.06	1.04	1.11	1.11	1.12	1.12
Ax	1,2,3,6,7,8-HxCDD	0.94	5.69 %	0.92	0.84	0.93	0.96	0.99	0.97	0.99
Ax	1,2,3,7,8,9-HxCDD	0.99	5.96 %	0.96	0.89	0.96	1.02	1.06	1.02	1.04
Ax	1,2,3,4,6,7,8-HpCDD	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
Ax	OCDD	1.06	4.85 %	1.02	1.00	1.03	1.04	1.10	1.09	1.14
Ax2	OCDD-a	0.06	7.60 %	*	*	*	0.06	0.06	0.06	0.07
Ax	2,3,7,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ax	1,2,3,7,8-PeCDF	0.98	3.53 %	0.95	0.96	0.94	0.98	1.01	1.01	1.03
Ax	2,3,4,7,8-PeCDF	1.01	2.72 %	0.99	0.97	0.99	1.03	1.04	1.02	1.05
Ax	1,2,3,4,7,8-HxCDF	1.22	4.11 %	1.19	1.14	1.18	1.23	1.26	1.24	1.28
Ax	1,2,3,6,7,8-HxCDF	1.15	5.04 %	1.07	1.09	1.12	1.17	1.21	1.18	1.22
Ax	2,3,4,6,7,8-HxCDF	1.13	3.90 %	1.08	1.09	1.10	1.13	1.14	1.18	1.19
Ax	1,2,3,7,8,9-HxCDF	1.12	4.77 %	1.04	1.06	1.08	1.13	1.15	1.16	1.18
Ax	1,2,3,4,6,7,8-HpCDF	1.37	3.84 %	1.27	1.36	1.34	1.37	1.40	1.40	1.42
Ax	1,2,3,4,7,8,9-HpCDF	1.32	6.19 %	1.22	1.22	1.28	1.37	1.36	1.39	1.41
Ax	OCDF	0.94	3.04 %	0.96	0.91	0.89	0.94	0.96	0.95	0.97
Ax2	OCDF-a	0.05	7.57 %	*	*	*	0.05	0.05	0.05	0.06
ES	13C-2,3,7,8-TCDD	0.99	3.51 %	0.98	0.96	0.98	0.98	0.98	1.05	1.04
ES	13C-1,2,3,7,8-PeCDD	0.83	10.15 %	0.78	0.77	0.80	0.77	0.81	0.93	0.98
ES	13C-1,2,3,4,7,8-HxCDD	1.08	9.62 %	1.01	1.02	1.06	1.01	1.01	1.20	1.26
ES	13C-1,2,3,6,7,8-HxCDD	1.23	10.29 %	1.15	1.15	1.13	1.15	1.18	1.38	1.43
ES	13C-1,2,3,7,8,9-HxCDD	1.21	9.75 %	1.14	1.14	1.16	1.13	1.13	1.36	1.40
ES	13C-1,2,3,4,6,7,8-HpCDD	0.98	10.32 %	0.93	0.90	0.94	0.93	0.92	1.12	1.14
ES	13C-OCDD	0.66	16.97 %	0.59	0.55	0.62	0.60	0.61	0.80	0.84
ES	13C-2,3,7,8-TCDF	0.96	2.90 %	0.94	0.93	0.94	0.95	0.95	0.99	1.00
ES	13C-1,2,3,7,8-PeCDF	0.85	9.93 %	0.79	0.77	0.83	0.81	0.83	0.97	0.98
ES	13C-2,3,4,7,8-PeCDF	0.88	10.13 %	0.81	0.81	0.85	0.83	0.86	1.01	1.02
ES	13C-1,2,3,4,7,8-HxCDF	1.47	8.67 %	1.40	1.40	1.42	1.39	1.38	1.65	1.67
ES	13C-1,2,3,6,7,8-HxCDF	1.78	10.82 %	1.68	1.65	1.65	1.65	1.68	2.04	2.07
ES	13C-2,3,4,6,7,8-HxCDF	1.61	7.86 %	1.52	1.49	1.56	1.55	1.57	1.76	1.81
ES	13C-1,2,3,7,8,9-HxCDF	1.40	10.16 %	1.31	1.25	1.37	1.33	1.35	1.58	1.62
ES	13C-1,2,3,4,6,7,8-HpCDF	1.16	11.44 %	1.08	1.04	1.11	1.09	1.09	1.34	1.36
ES	13C-1,2,3,4,7,8,9-HpCDF	0.92	13.25 %	0.84	0.82	0.87	0.84	0.88	1.06	1.13
ES	13C-OCDF	1.04	19.54 %	0.90	0.84	0.95	0.94	0.98	1.28	1.37
CS	37Cl-2,3,7,8-TCDD	0.99	4.92 %	*	0.98	0.93	0.97	0.99	1.07	*
CS	13C-1,2,3,4,7-PeCDD	0.77	2.89 %	0.75	0.76	0.78	0.74	0.78	0.79	0.80
CS	13C-1,2,3,4,6-PeCDF	0.79	2.99 %	0.77	0.77	0.80	0.77	0.81	0.83	0.80
CS	13C-1,2,3,4,6,9-HxCDF	1.41	2.94 %	1.40	1.42	1.43	1.35	1.38	1.48	1.43
CS	13C-1,2,3,4,6,8,9-HpCDF	0.91	3.79 %	0.91	0.89	0.95	0.85	0.91	0.95	0.91
NA	n/a	Div0	* %	*	*	*	*	*	*	*
JS/RT	13C-1,2,3,4-TCDD	-	- %	-	-	-	-	-	-	-
JS	13C-1,2,3,4-TCDF	-	- %	-	-	-	-	-	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	-	- %	-	-	-	-	-	-	-

Analyst: 
 Date: 26 Dec 08

SS	37Cl-2,3,7,8-TCDD	1.00	2.73 %	*	1.02	0.96	1.00	1.01	1.02	*
SS	13C-1,2,3,4,7-PeCDD	0.93	7.28 %	0.96	0.99	0.97	0.95	0.95	0.85	0.81
SS	13C-1,2,3,4,6-PeCDF	0.94	7.33 %	0.98	1.00	0.97	0.95	0.97	0.86	0.82
SS	13C-1,2,3,4,6,9-HxCDF	0.80	8.36 %	0.83	0.86	0.86	0.82	0.82	0.73	0.69
SS	13C-1,2,3,4,6,8,9-HpCDF	0.79	9.76 %	0.85	0.85	0.86	0.77	0.83	0.71	0.67
SBS	2,4,6,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	1,3,6,8-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Ay	1,2,3,9-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Ay	1,2,8,9-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Ay	1,2,4,7,9-PeCDD	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Ay	1,2,3,8,9-PeCDD	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Ay	1,2,4,6,7,9-HxCDD	1.00	4.85 %	0.96	0.93	0.98	1.03	1.05	1.03	1.05
Ay	1,2,3,4,6,7,9-HpCDD	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
Ay	1,3,6,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	2,3,4,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	1,2,8,9-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	1,3,4,6,8-PeCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	1,2,3,8,9-PeCDF	1.00	3.02 %	0.97	0.97	0.97	1.00	1.03	1.02	1.04
Ay	1,2,3,4,6,8-HxCDF	1.15	4.31 %	1.10	1.09	1.12	1.17	1.19	1.19	1.22
AS	13C-1,3,6,8-TCDD	1.09	2.09 %	1.09	1.10	1.04	1.10	1.08	1.08	1.11
AS	13C-1,3,6,8-TCDF	1.09	1.59 %	1.10	1.10	1.06	1.10	1.08	1.08	1.11

Initial Calibration RRF Summary (ICAL)

Analytical Perspectives

Run: 081225P1 Analyte: M23CMM1A Cal: MM1_DF_0701200»

Data filename: 081225P1

Samp# 1 0.25 Samp# 2 0.50 Samp# 3 2.0 Samp# 4 10 Samp# 5 40 Samp# 6 200 Samp# 7 500

pg 1/1

Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
Total Tetra-Dioxins	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Total Penta-Dioxins	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Total Hexa-Dioxins	1.00	4.85 %	0.96	0.93	0.98	1.03	1.05	1.03	1.05
Total Hepta-Dioxins	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
Total Tetra-Furans	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Total Penta-Furans	1.00	3.02 %	0.97	0.97	0.97	1.00	1.03	1.02	1.04
Total Hexa-Furans	1.15	4.31 %	1.10	1.09	1.12	1.17	1.19	1.19	1.22
Total Hepta-Furans	1.35	4.65 %	1.25	1.30	1.31	1.37	1.38	1.39	1.42
TCDD EMPC	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
PeCDD EMPC	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
HxCDD EMPC	1.00	4.85 %	0.96	0.93	0.98	1.03	1.05	1.03	1.05
HpCDD EMPC	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
TCDF EMPC	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
PeCDF EMPC	1.00	3.02 %	0.97	0.97	0.97	1.00	1.03	1.02	1.04
HxCDF EMPC	1.15	4.31 %	1.10	1.09	1.12	1.17	1.19	1.19	1.22
HpCDF EMPC	1.35	4.65 %	1.25	1.30	1.31	1.37	1.38	1.39	1.42

8290B ICALs

Ax	MM1-DF-010600-25JAN06	MM1-DF-010600-16MAR06	MM1_SIL4181_20OCT06	MM1-DF-091806B_06NO V06	MM1-DF-091806B_14MA R07	MM1-DF-091806B_16AP R07	MM1-DF-07012007A_06A ug07	MM1-DF-07012007A_26D EC07	MM1-DF-07012007A_26D EC07	RSD	Mean	sd	PD from Mean	
2,3,7,8-TCDD	1	1.06	1.12	1.13	1.03	1.18	1.1	1.13	1.14	1.08	5.0	1.12	0.06	-3%
1,2,3,7,8-PeCDD	0.88	0.93	1.1	0.94	0.9	0.93	0.97	0.99	1.03	1	5.8	0.99	0.06	1%
1,2,3,4,7,8-HxCDD	0.92	1	1.2	1.1	0.98	1.1	1.13	1.12	1.16	1.08	6.3	1.09	0.07	-1%
1,2,3,6,7,8-HxCDD	0.93	1.03	1.06	1.03	0.94	1.03	1.04	1	1.04	0.94	6.4	1.05	0.07	-11%
1,2,3,7,8,9-HxCDD	0.91	0.99	1.07	1	0.9	1.03	1	1.08	1.1	0.99	5.5	1.01	0.06	-2%
1,2,3,4,6,7,8-HpCDD	0.83	0.9	1.08	0.87	0.75	0.94	0.91	0.98	1	0.97	7.7	0.95	0.07	2%
OCDD	0.98	1.04	1.1	0.9	0.81	0.93	0.94	1.1	1.11	1.06	7.6	1.00	0.08	6%
2,3,7,8-TCDF	0.86	0.99	1.09	1.05	0.97	1.07	1.03	1.04	1.15	1.05	6.9	1.02	0.07	3%
1,2,3,7,8-PeCDF	0.79	0.89	1.18	0.9	0.83	0.97	0.96	0.96	1.05	0.98	9.3	0.98	0.09	0%
2,3,4,7,8-PeCDF	0.94	1.08	1.15	0.94	0.87	1	0.99	1	1.09	1.01	6.8	1.01	0.07	0%
1,2,3,4,7,8-HxCDF	1.02	1.17	1.30	1.03	0.96	1.11	1.13	1.22	1.28	1.22	8.0	1.15	0.09	7%
1,2,3,6,7,8-HxCDF	0.99	1.12	1.27	1.02	0.94	1.12	1.12	1.17	1.2	1.15	7.2	1.14	0.08	1%
2,3,4,6,7,8-HxCDF	0.95	1.1	1.24	0.99	0.9	1.07	1.06	1.14	1.18	1.13	8.2	1.09	0.09	4%
1,2,3,7,8,9-HxCDF	1.03	1.19	1.24	1.03	0.94	1.12	1.12	1.14	1.19	1.12	6.4	1.12	0.07	0%
1,2,3,4,6,7,8-HpCDF	1.17	1.32	1.46	1.15	0.99	1.18	1.2	1.39	1.42	1.37	9.2	1.32	0.12	4%
1,2,3,4,7,8,9-HpCDF	1.22	1.37	1.51	1.16	1	1.21	1.2	1.37	1.4	1.32	8.8	1.32	0.12	0%
OCDF	0.86	0.99	1.07	0.78	0.72	0.86	0.83	0.95	0.97	0.94	9.1	0.94	0.09	0%
ES														
2,3,7,8-TCDD	1.03	1.03	1.05	1.11	1.1	1.12	1.09	1.05	1.02	0.99	4.8	1.10	0.05	-10%
1,2,3,7,8-PeCDD	0.77	0.83	0.95	1.05	1.02	1	1.02	0.92	0.96	0.83	8.1	0.95	0.08	-13%
1,2,3,4,7,8-HxCDD	1.06	1.09	1.19	1.06	1.04	1.1	1.06	1.09	1.12	1.08	4.1	1.06	0.04	2%
1,2,3,6,7,8-HxCDD	1.22	1.2	1.3	1.16	1.19	1.16	1.2	1.13	1.23	1.23	5.8	1.15	0.07	7%
1,2,3,7,8,9-HxCDD	1.26	1.22	1.35	1.24	1.25	1.23	1.25	1.17	1.23	1.21	4.1	1.22	0.05	-1%
1,2,3,4,6,7,8-HpCDD	0.92	0.94	1.11	1.17	1.04	1.01	1.09	1.03	1.14	0.98	10.2	0.88	0.10	0%
OCDD	0.7	0.68	0.85	0.98	0.8	0.72	0.83	0.68	0.72	0.66	12.7	0.77	0.10	-14%
2,3,7,8-TCDF	0.94	0.96	1.02	1.04	0.97	1.04	1	0.99	0.94	0.96	3.5	1.00	0.04	-4%
1,2,3,7,8-PeCDF	0.73	0.8	0.96	1.05	1.01	0.91	0.9	0.91	0.97	0.85	10.0	0.86	0.09	-1%
2,3,4,7,8-PeCDF	0.67	0.73	0.96	1.05	1.04	0.94	1	0.89	0.97	0.88	10.6	0.89	0.10	-2%
1,2,3,4,7,8-HxCDF	1.24	1.4	1.58	1.65	1.39	1.73	1.64	1.57	1.66	1.47	9.1	1.52	0.14	-3%
1,2,3,6,7,8-HxCDF	1.43	1.55	1.79	1.89	1.65	1.86	1.88	1.71	1.99	1.78	10.0	1.68	0.17	6%
2,3,4,6,7,8-HxCDF	1.32	1.44	1.66	1.71	1.5	1.75	1.74	1.61	1.77	1.61	8.6	1.57	0.13	2%
1,2,3,7,8,9-HxCDF	1.16	1.29	1.5	1.52	1.26	1.58	1.53	1.45	1.57	1.4	10.4	1.35	0.14	4%
1,2,3,4,6,7,8-HpCDF	0.86	1.06	1.28	1.3	1.03	1.28	1.32	1.23	1.35	1.16	12.9	1.13	0.15	3%
1,2,3,4,7,8,9-HpCDF	0.7	0.83	1.04	1.12	0.85	1.04	1.11	1.01	1.09	0.92	15.0	0.92	0.14	1%
OCDF	0.85	0.95	1.2	1.39	1.05	1.08	1.26	1.06	1.16	1.04	14.6	1.08	0.16	-4%

8290B/23 ICAL (pg/μL)

ANALYTICAL PERSPECTIVES	CS						
	CS0	CS2	CS3	CS4	CS5	CS6	
Unlabeled Analytes							
2,3,7,8-TCDD	0.25	0.5	2	10	40	200	500
2,3,7,8-TCDF	0.25	0.5	2	10	40	200	500
1,2,3,7,8-PeCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,7,8-PeCDF	1.25	2.5	10	50	200	1000	2500
2,3,4,7,8-PeCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,4,7,8-HxCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,6,7,8-HxCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,7,8,9-HxCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,4,7,8-HxCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,6,7,8-HxCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,7,8,9-HxCDF	1.25	2.5	10	50	200	1000	2500
2,3,4,6,7,8-HxCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,4,6,7,8-HpCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,4,6,7,8-HpCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,4,7,8,9-HpCDF	1.25	2.5	10	50	200	1000	2500
OCDD	2.5	5	20	100	400	2000	5000
OCDF	2.5	5	20	100	400	2000	5000
Extraction Standards							
¹³ C ₁₂ -2,3,7,8-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,7,8-TCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -OCDD	200	200	200	200	200	200	200
¹³ C ₁₂ -OCDF	200	200	200	200	200	200	200
Cleanup Standards							
³⁷ Cl ₄ -2,3,7,8-TCDD	-	0.5	2	10	40	200	-
¹³ C ₁₂ -1,2,3,4,7-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,8,9-HpCDF	100	100	100	100	100	100	100
Alternate Standards							
¹³ C ₁₂ -1,3,6,8-TCDD				100			
¹³ C ₁₂ -1,3,6,8-TCDF				100			
Injection Standards							
¹³ C ₁₂ -1,2,3,4-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4-TCDF	100	100	100	100	100	100	100
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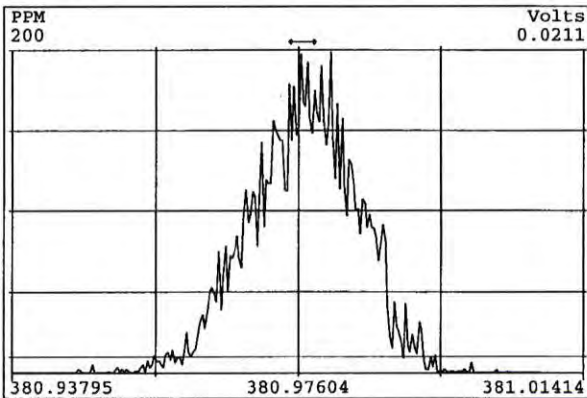
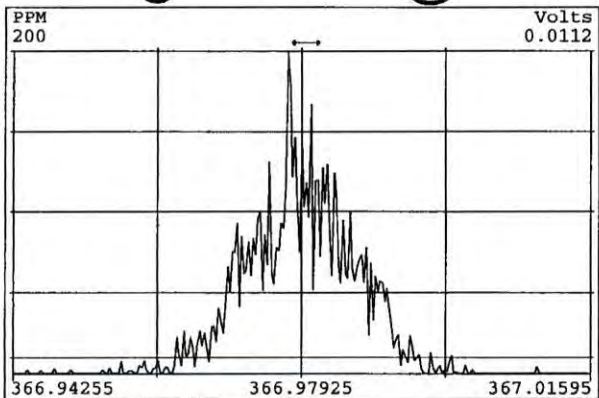
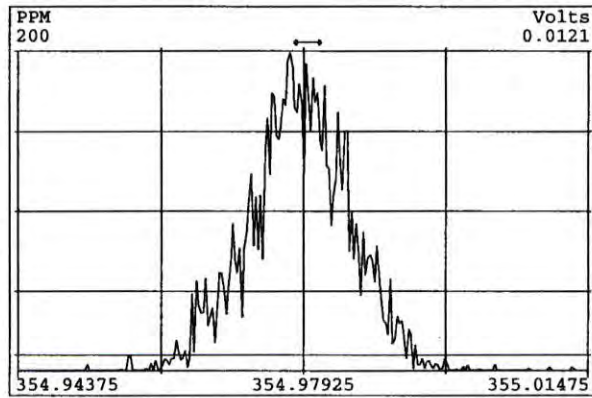
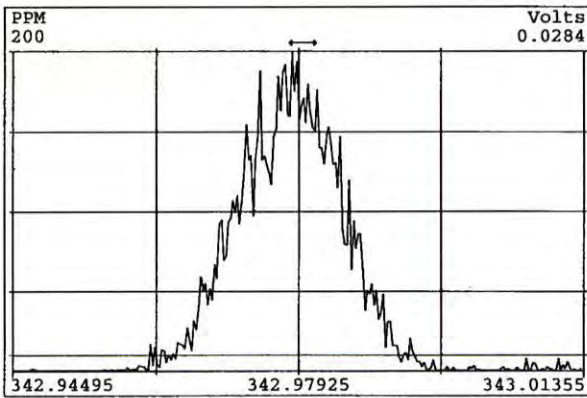
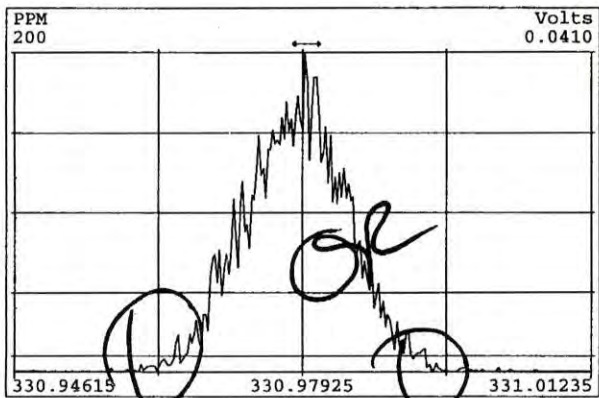
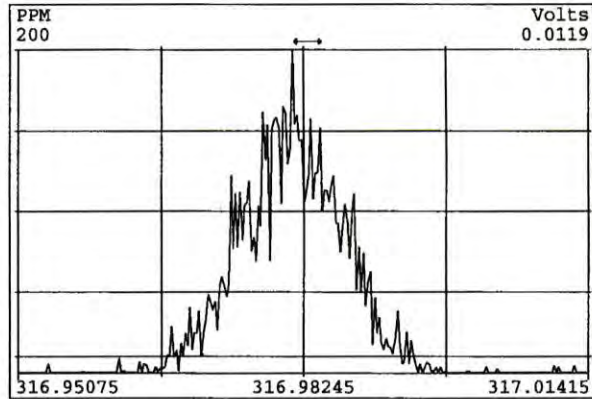
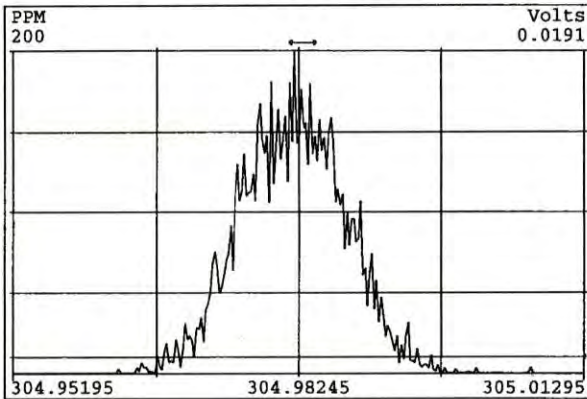
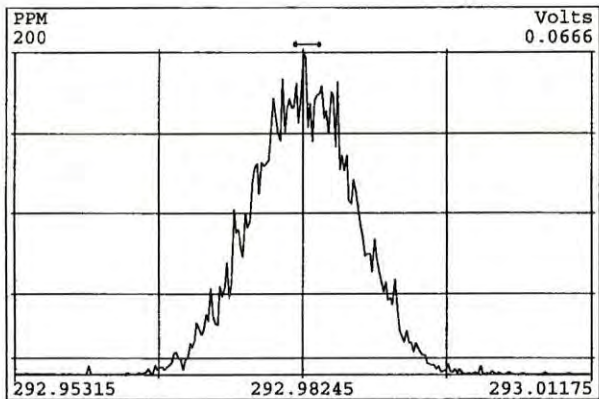
Analytical Perspectives - Injection Log

Analyst: MC
MS Method: DF_CL4-8

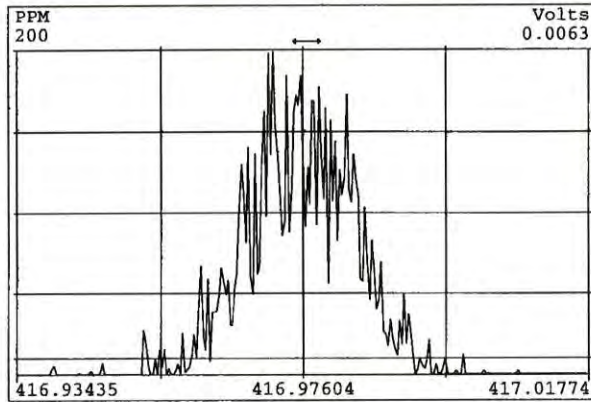
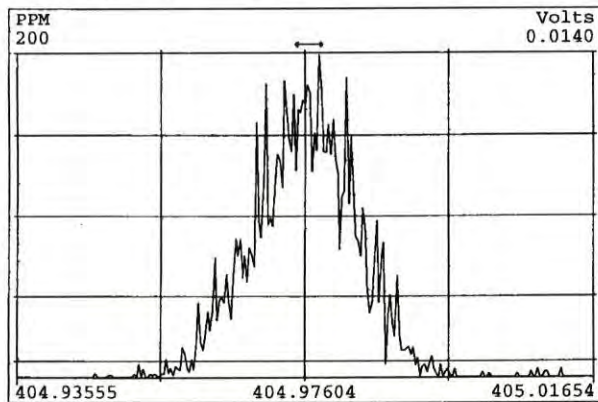
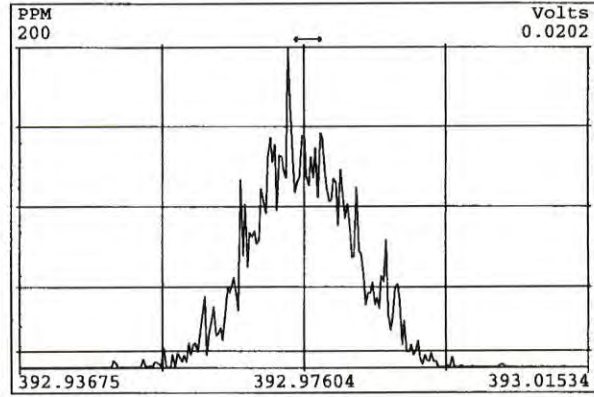
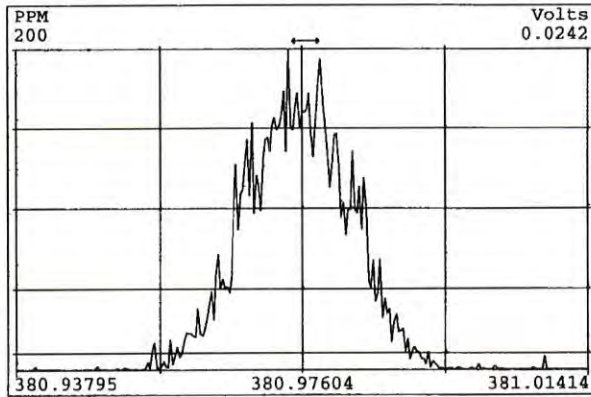
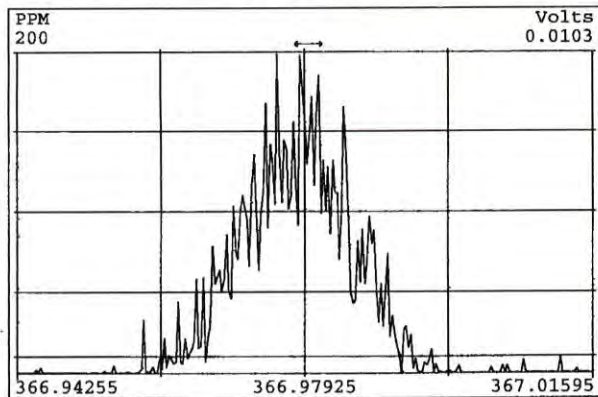
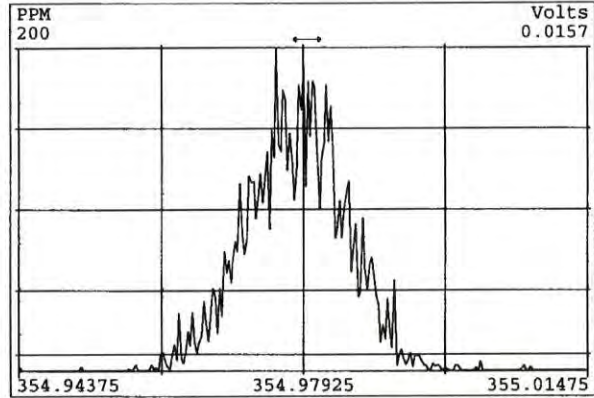
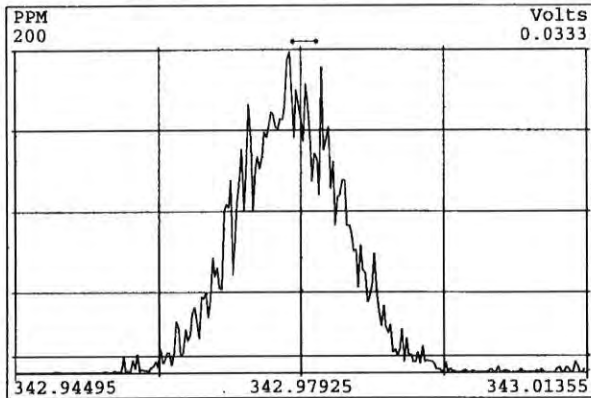
GC Column: db-5
GC Method: DB5MS_60M

Data file S#	Vial#	Lab ID	Sample ID (Chrom. Text)	Wt/Vol	ES	Check	Acq date	Acq time
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081225P1	2	17	SIL7-26-2 NEW ICAL CS1	1.0000	100		25-DEC-08	11:02:27
081225P1	3	18	SIL7-26-1 NEW ICAL CS2	1.0000	100		25-DEC-08	11:52:35
081225P1	4	19	SIL7-25-4 NEW ICAL CS3	1.0000	100		25-DEC-08	12:42:45
081225P1	5	20	SIL7-25-3 NEW ICAL CS4	1.0000	100		25-DEC-08	13:32:54
081225P1	6	21	SIL7-25-2 NEW ICAL CS5	1.0000	100		25-DEC-08	14:23:03
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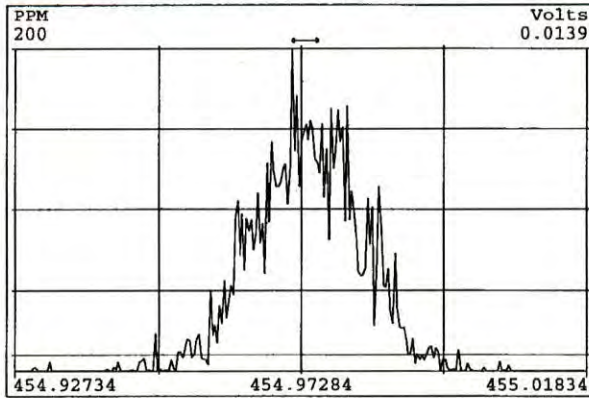
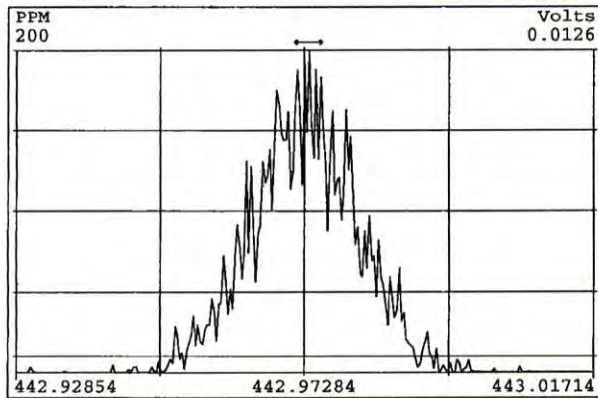
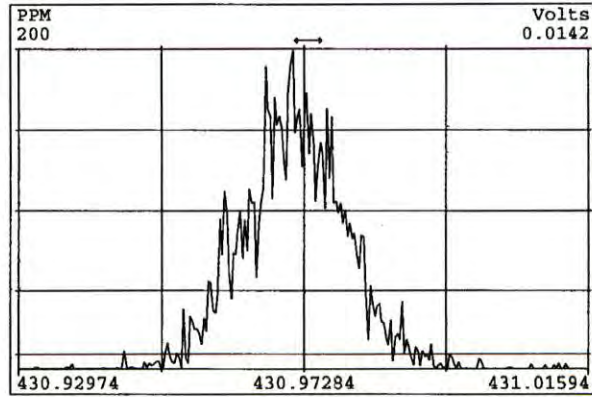
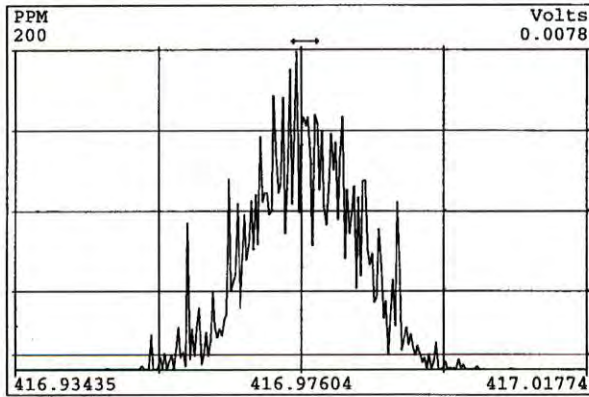
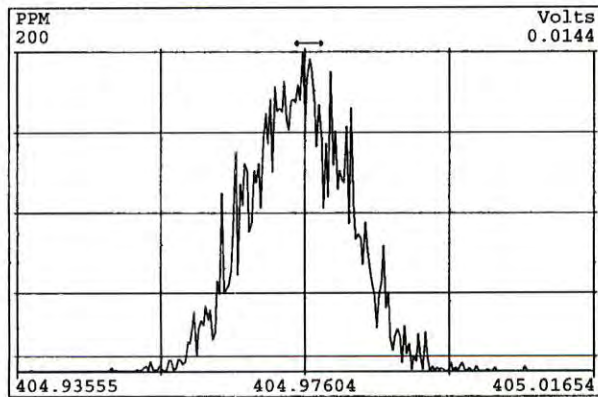
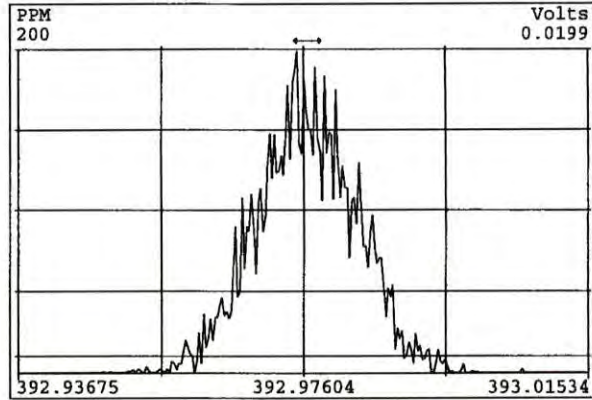
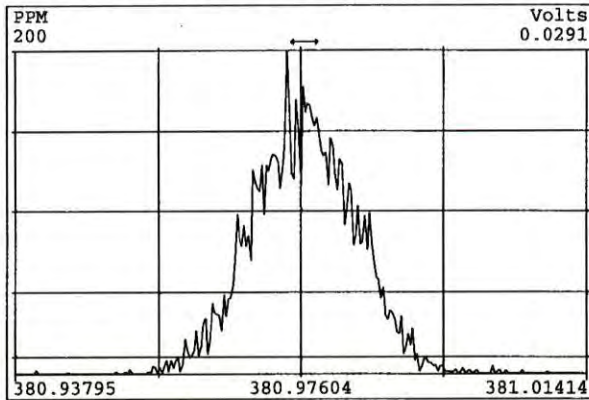
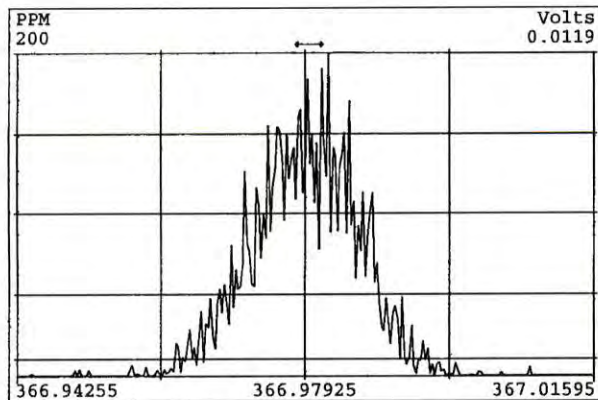
Peak Locate Examination:25-DEC-2008:10:10 File:081225P1
Experiment:DF_CL4-8 Function:1 Reference:PFK2



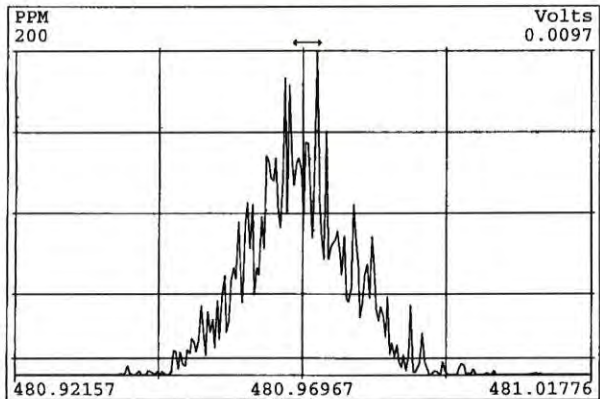
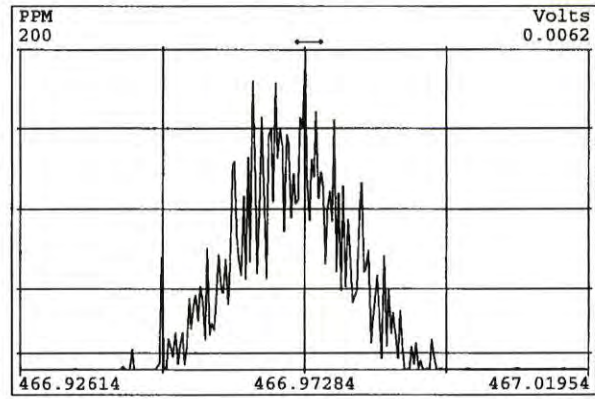
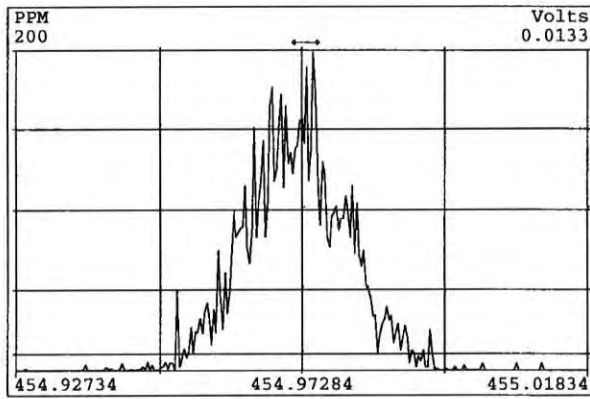
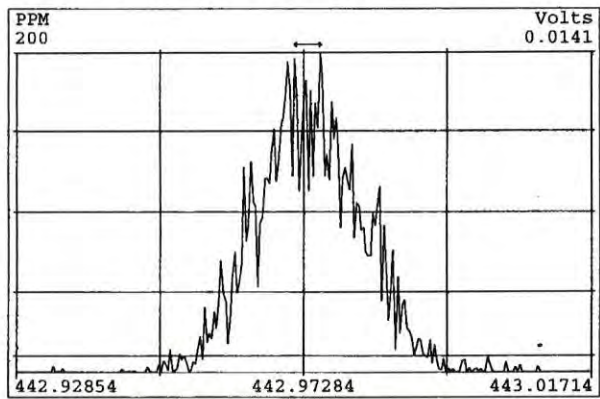
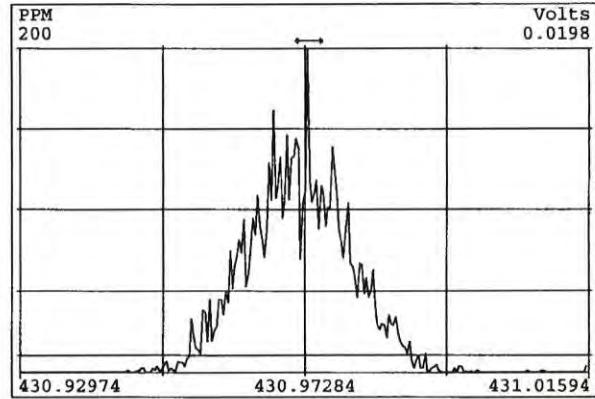
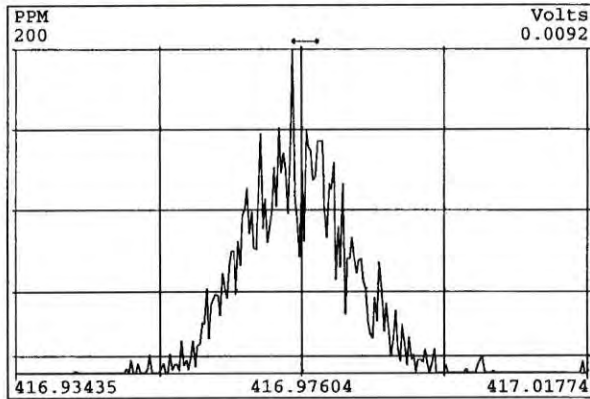
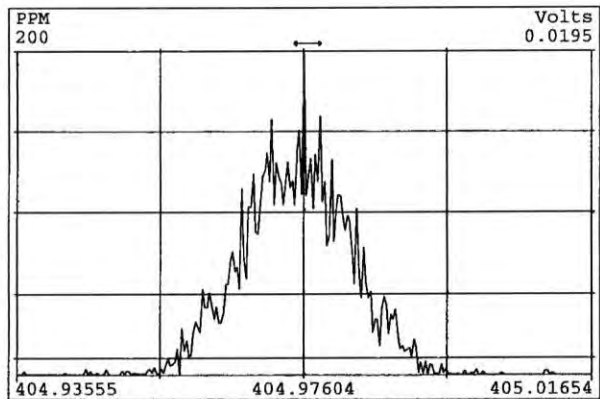
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Experiment:DF_CL4-8 Function:2 Reference:PFK2



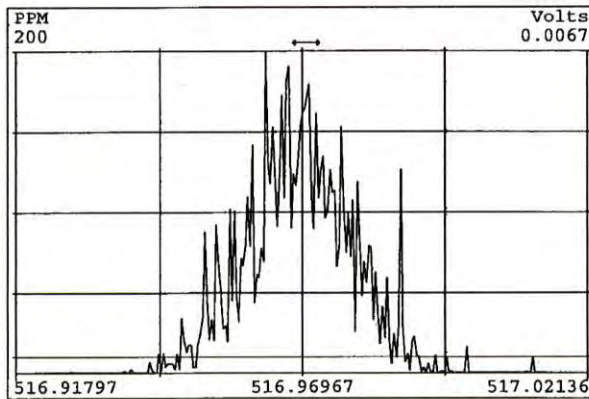
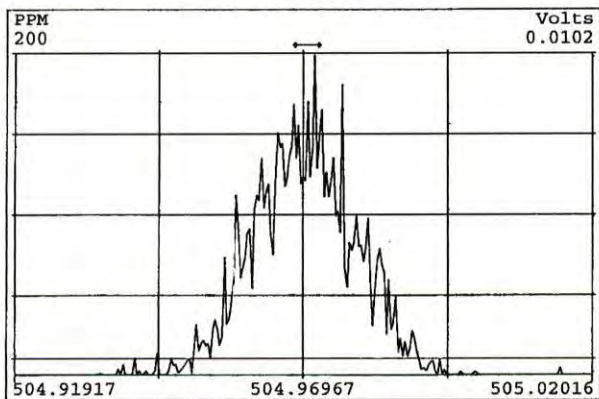
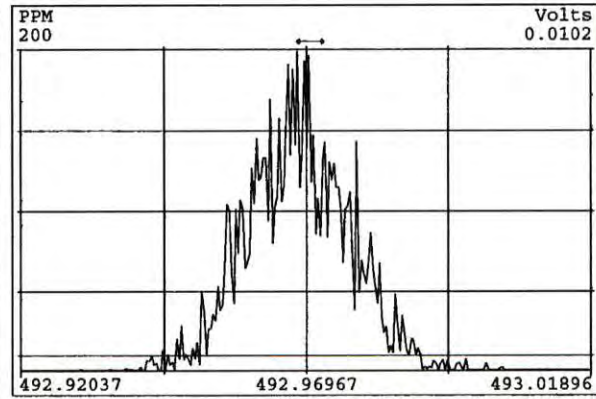
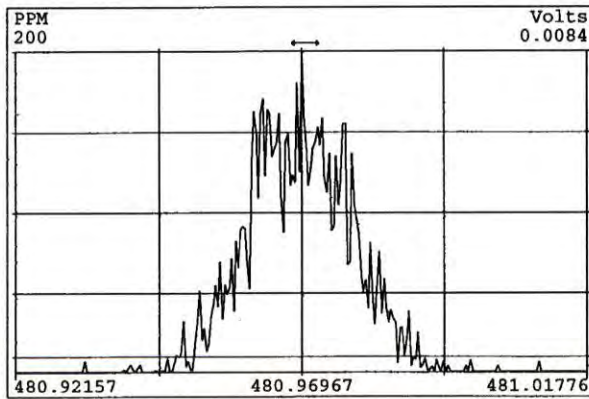
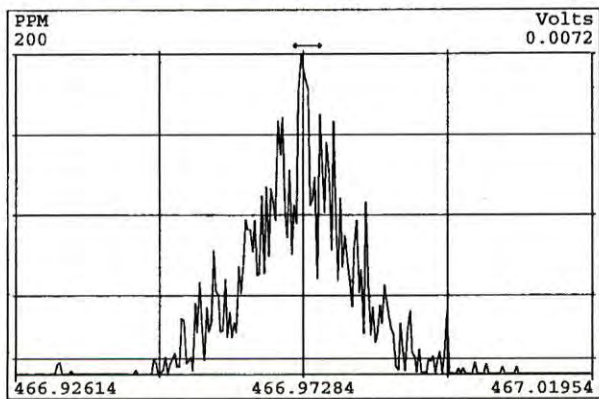
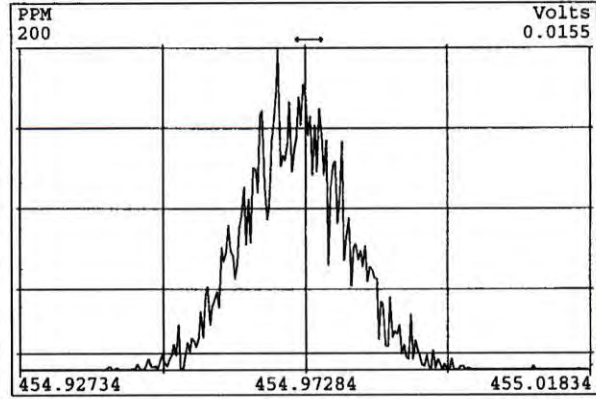
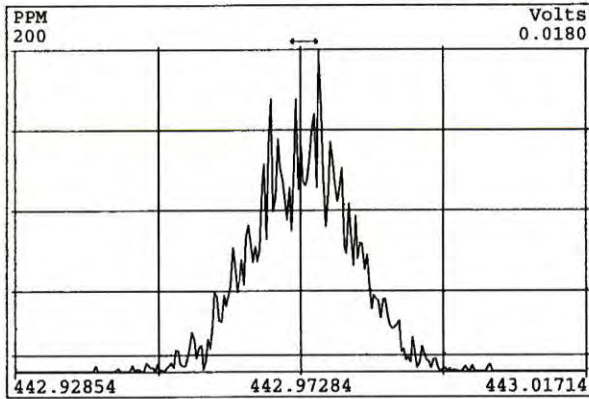
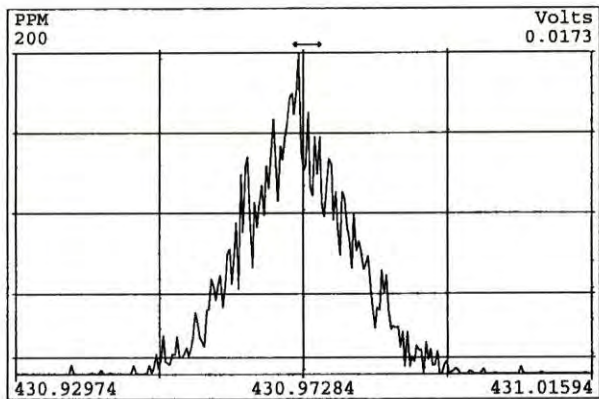
Peak Locate Examination:25-DEC-2008:10:11 File:081225P1
Experiment:DF_CL4-8 Function:3 Reference:PFK2



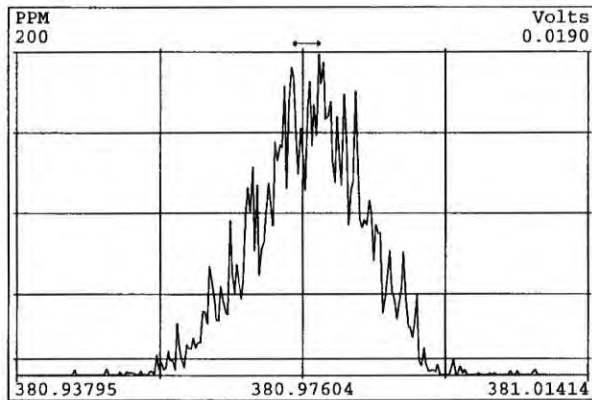
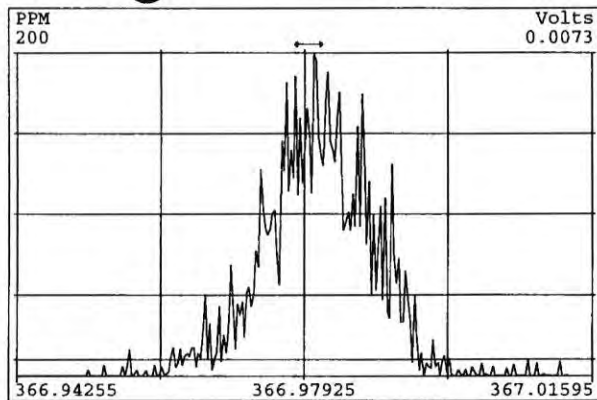
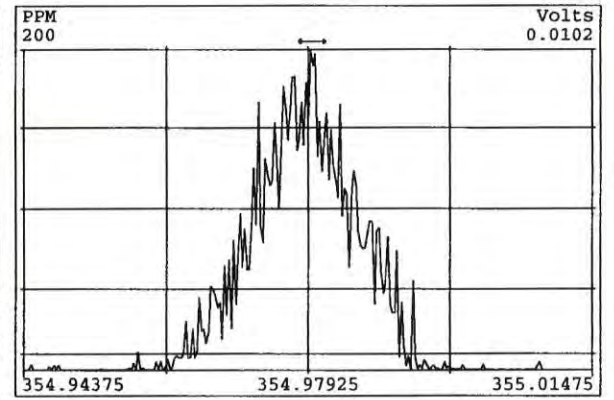
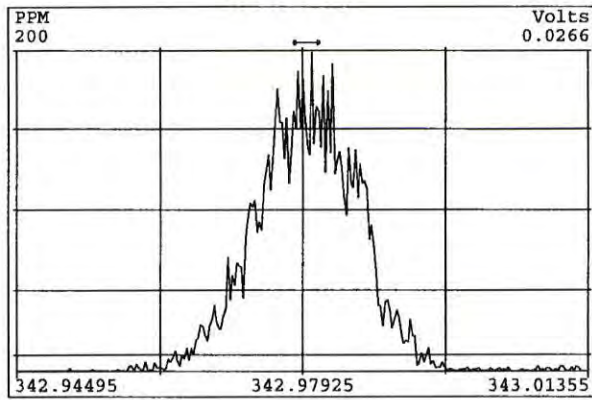
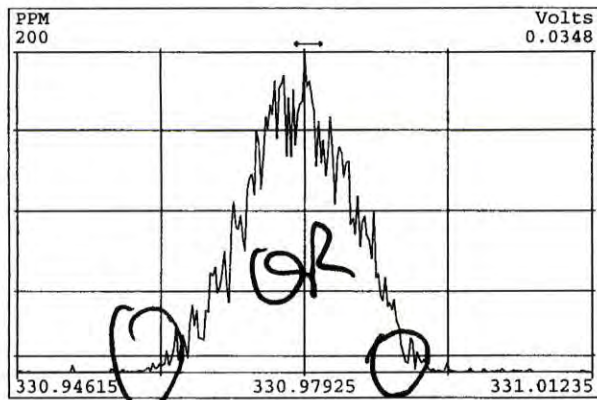
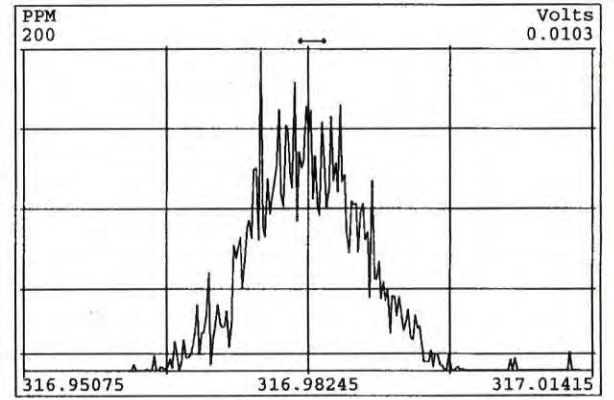
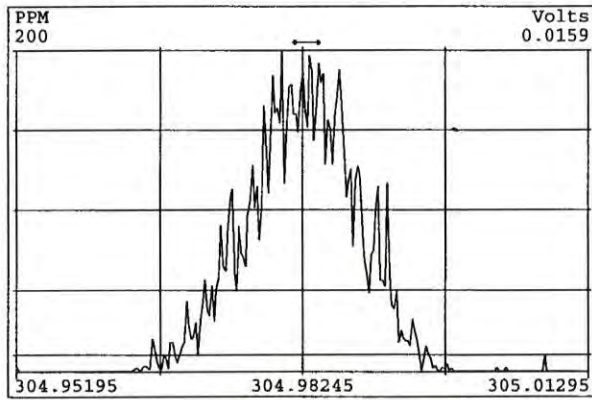
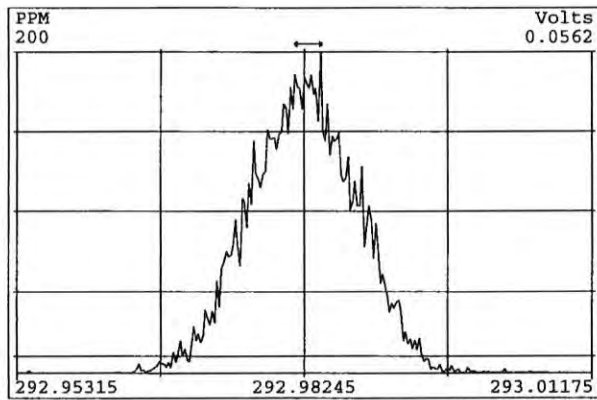
Peak Locate Examination:25-DEC-2008:10:11 File:081225P1
Experiment:DF_CL4-8 Function:4 Reference:PFK2



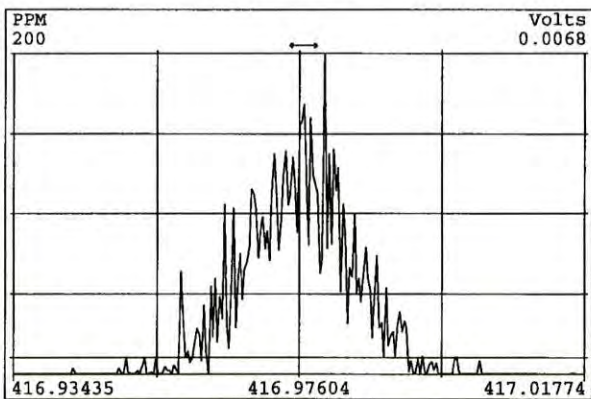
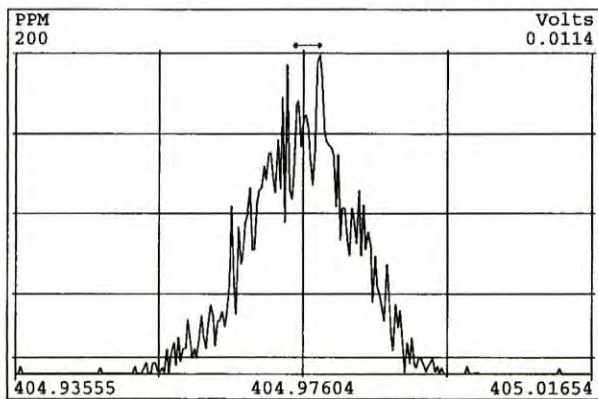
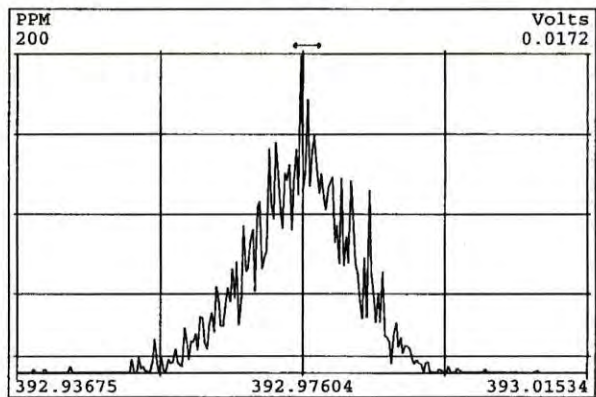
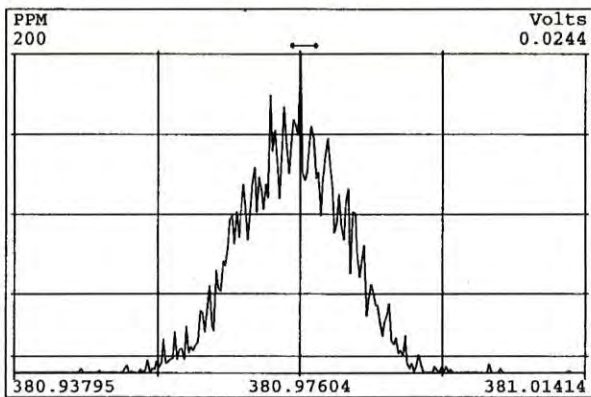
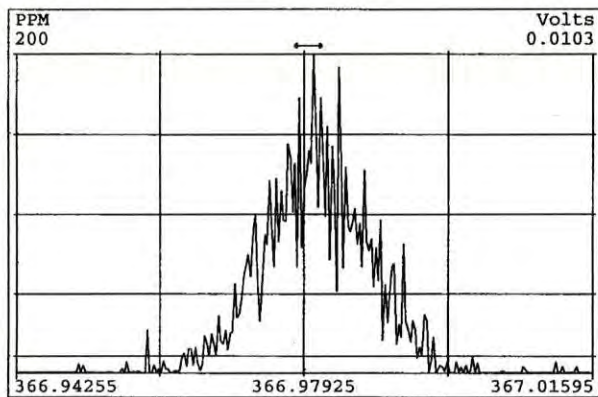
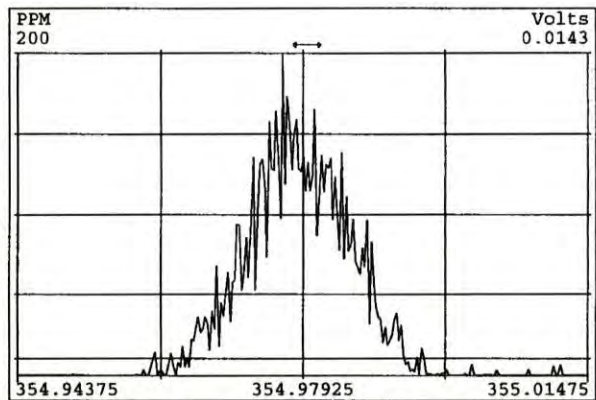
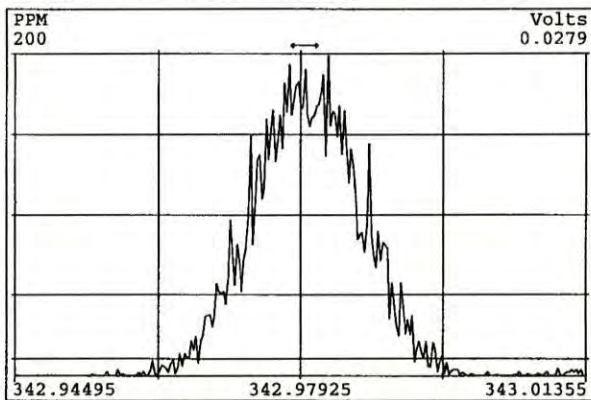
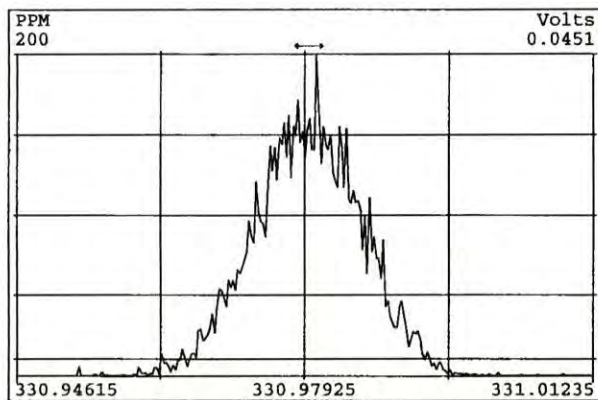
Peak Locate Examination:25-DEC-2008:10:11 File:081225P1
Experiment:DF_CL4-8 Function:5 Reference:PFK2



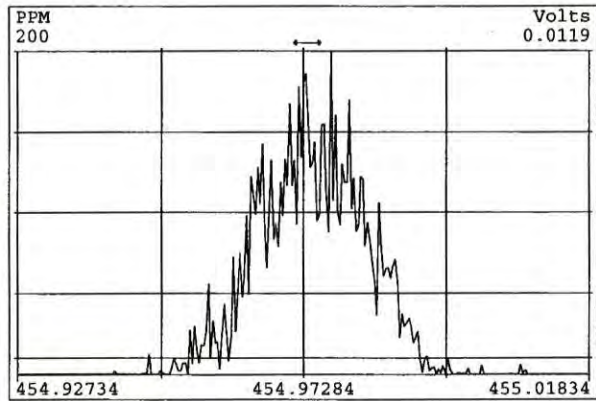
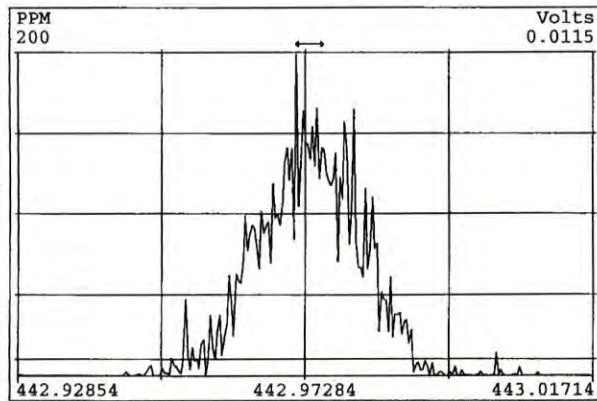
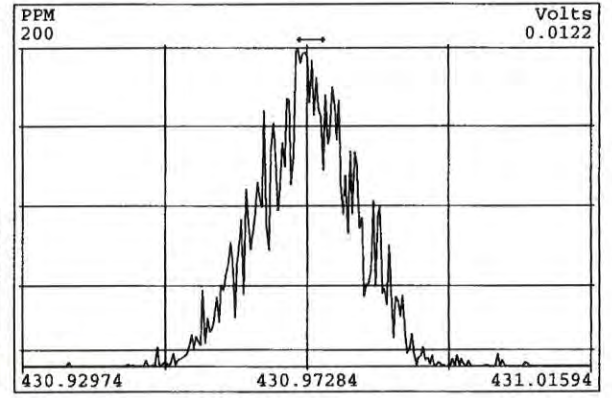
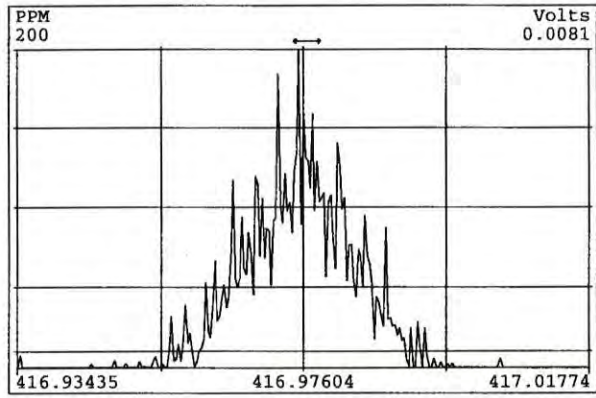
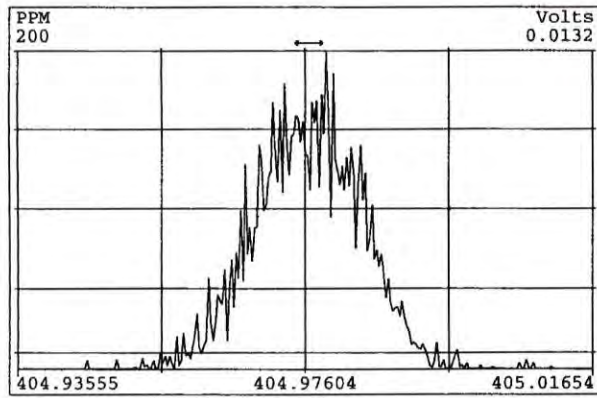
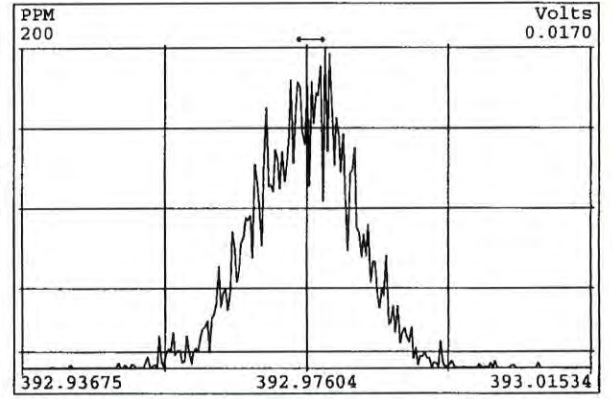
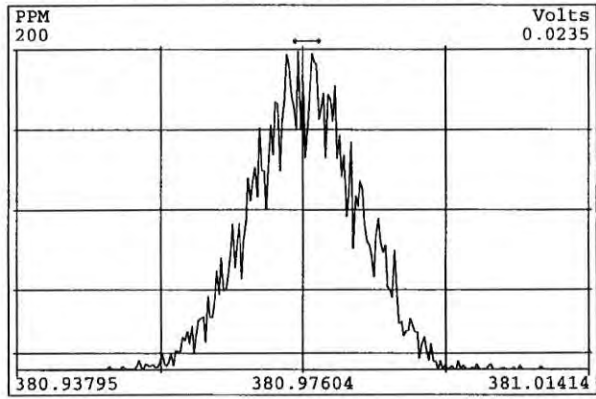
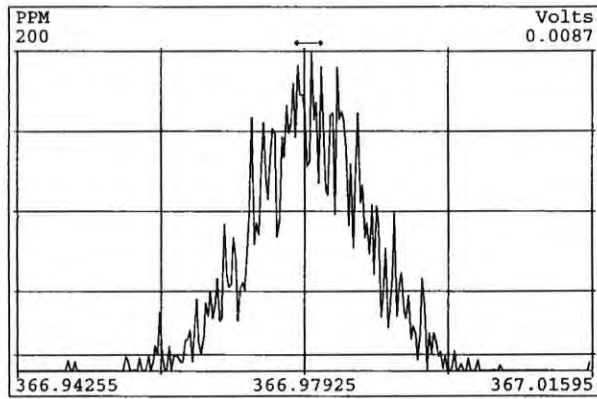
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Experiment:DF_CL4-8 Function:1 Reference:PFK2



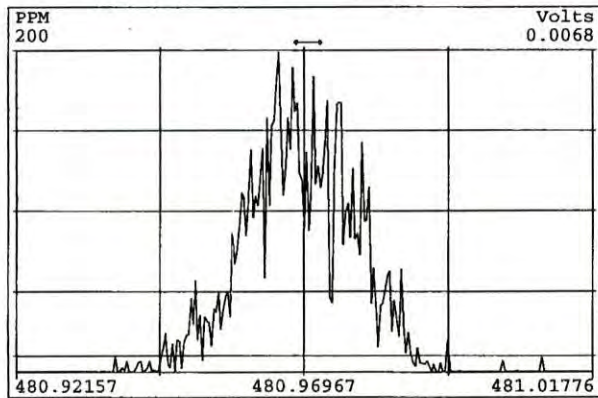
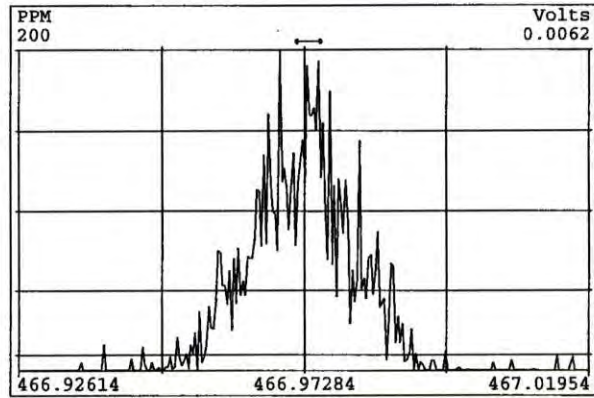
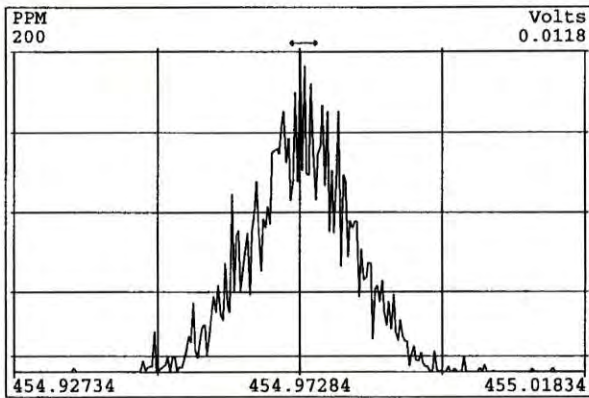
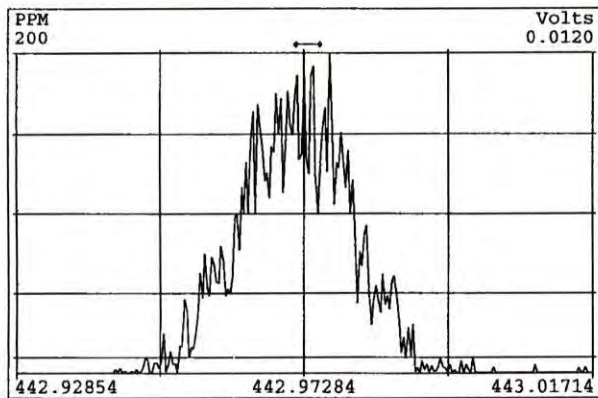
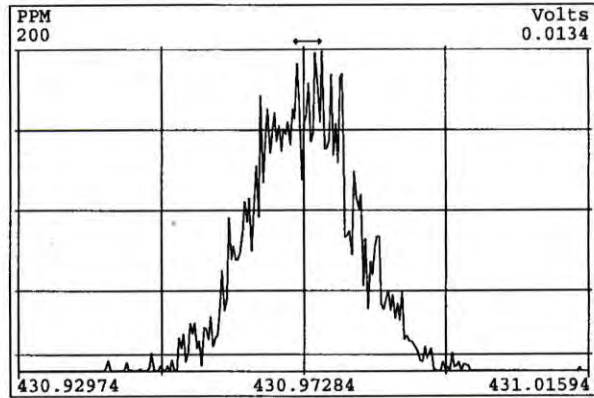
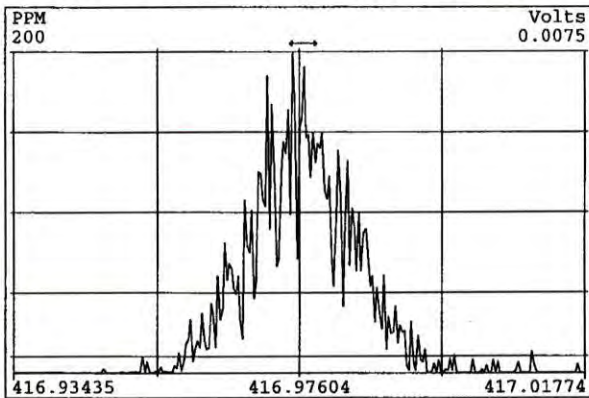
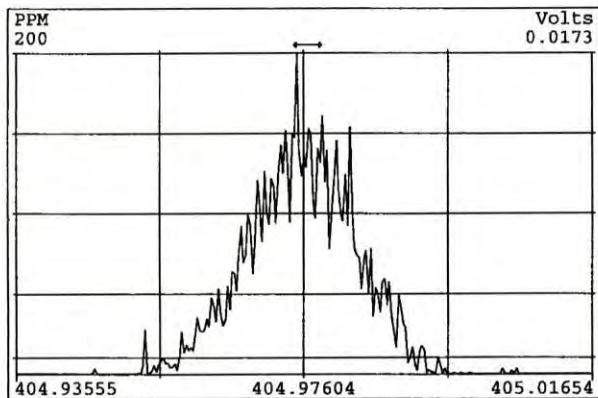
Peak Locate Examination:25-DEC-2008:16:07 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:2 Reference:PFK2



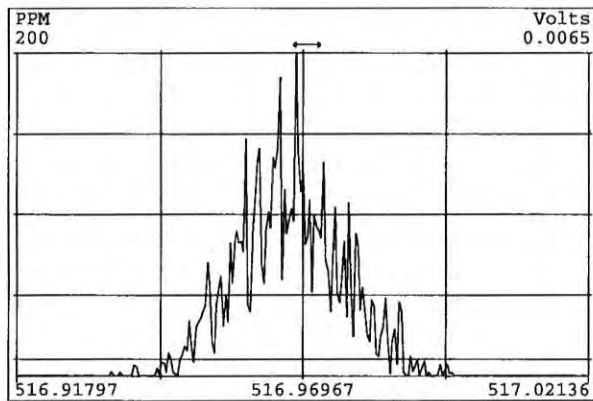
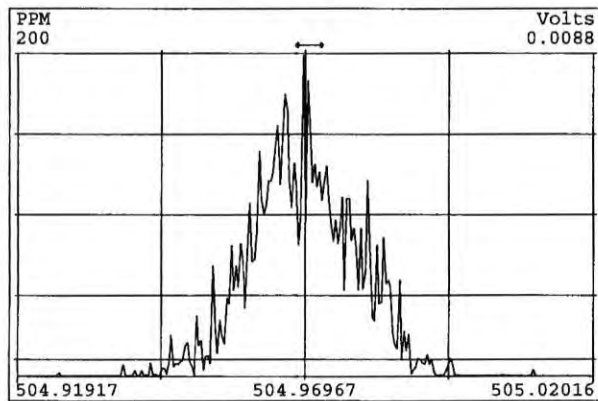
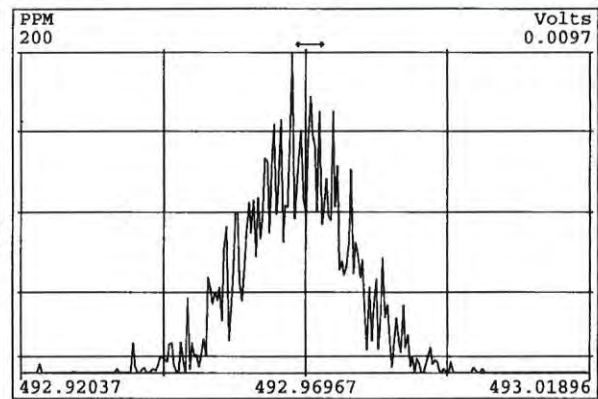
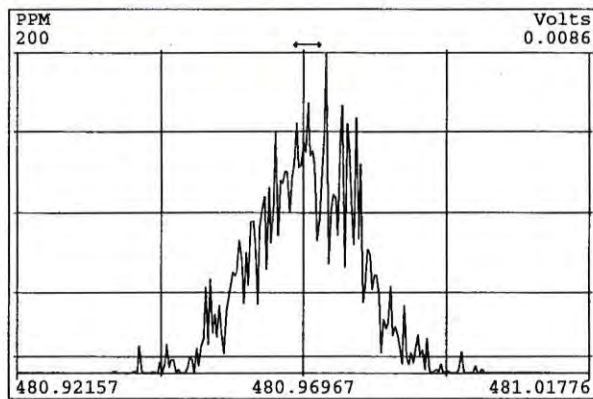
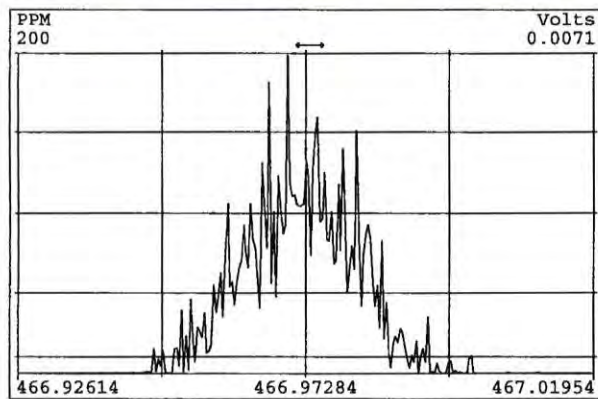
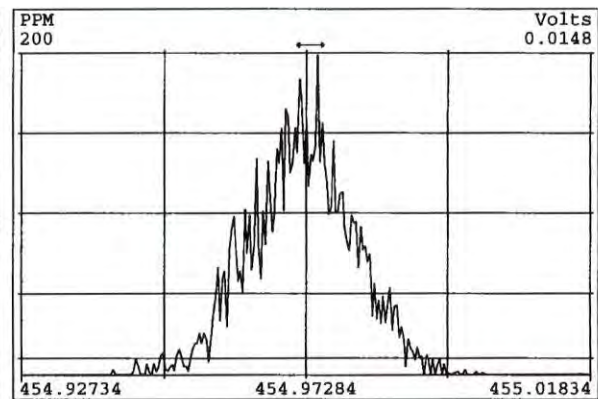
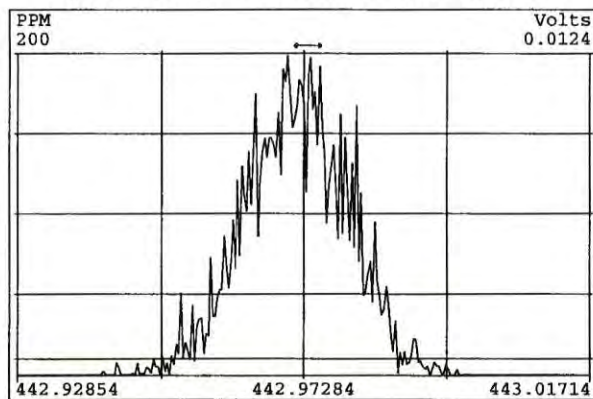
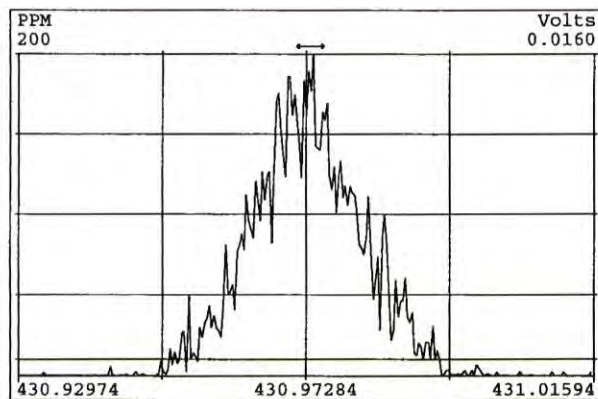
Peak Locate Examination:25-DEC-2008:16:08 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:3 Reference:PFK2



Peak Locate Examination:25-DEC-2008:16:09 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:4 Reference:PFK2



Peak Locate Examination:25-DEC-2008:16:10 File:MM1_RES_CHECK
Experiment:DF_CL4-8 Function:5 Reference:PFK2



TM 30 Dec 08

Calibration Summary

Analytical Perspectives


[Form: CAL]

Client ID: NEW ICAL CS0
 Lab ID: SIL7-26-3
 Sample text: SIL7-26-3 NEW ICAL CS0

Filename: 081225P1 S: 1 Acq: 25-DEC-08 10:12:17
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 Vial: 16

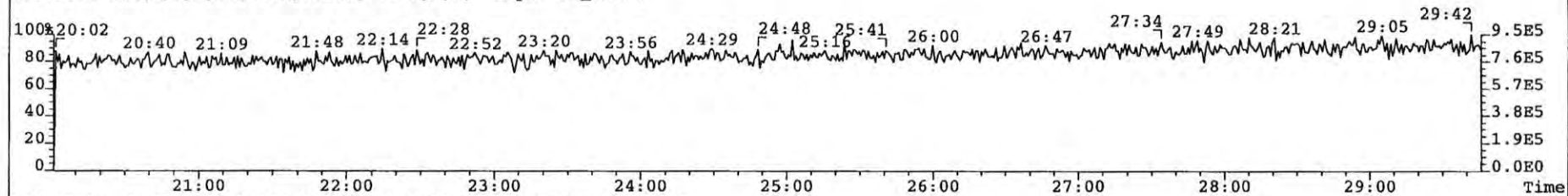
Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	0.25	1.01e+05	0.70 y	27:06	-	1.08
2	Ax 1,2,3,7,8-PeCDD	1.25	3.69e+05	1.50 y	32:41	-	0.99
3	Ax 1,2,3,4,7,8-HxCDD	1.25	2.90e+05	1.28 y	36:38	-	1.01
4	Ax 1,2,3,6,7,8-HxCDD	1.25	3.01e+05	1.24 y	36:45	-	0.92
5	Ax 1,2,3,7,8,9-HxCDD	1.25	3.08e+05	1.06 y	37:03	-	0.96
6	Ax 1,2,3,4,6,7,8-HpCDD	1.25	2.45e+05	1.14 y	40:15	-	0.93
7	Ax OCDD	2.50	3.39e+05	0.93 y	43:49	-	1.02
8	Ax2 OCDD-a	2.50	*	* n	NotF>	-	*
9	Ax 2,3,7,8-TCDF	0.25	1.47e+05	0.75 y	26:10	-	1.03
10	Ax 1,2,3,7,8-PeCDF	1.25	5.70e+05	1.66 y	31:11	-	0.95
11	Ax 2,3,4,7,8-PeCDF	1.25	6.13e+05	1.59 y	32:19	-	0.99
12	Ax 1,2,3,4,7,8-HxCDF	1.25	4.71e+05	1.34 y	35:39	-	1.19
13	Ax 1,2,3,6,7,8-HxCDF	1.25	5.08e+05	1.25 y	35:48	-	1.07
14	Ax 2,3,4,6,7,8-HxCDF	1.25	4.61e+05	1.14 y	36:27	-	1.08
15	Ax 1,2,3,7,8,9-HxCDF	1.25	3.85e+05	1.21 y	37:25	-	1.04
16	Ax 1,2,3,4,6,7,8-HpCDF	1.25	3.86e+05	1.10 y	39:05	-	1.27
17	Ax 1,2,3,4,7,8,9-HpCDF	1.25	2.90e+05	1.11 y	40:49	-	1.22
18	Ax OCDF	2.50	4.83e+05	0.90 y	44:03	-	0.96
19	Ax2 OCDF-a	2.50	*	* n	NotF>	-	*
20	ES 13C-2,3,7,8-TCDD	100.00	3.76e+07	0.81 y	27:04	-	0.98
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.99e+07	1.66 y	32:40	-	0.78
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.29e+07	1.28 y	36:37	-	1.01
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.60e+07	1.27 y	36:44	-	1.15
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.57e+07	1.27 y	37:02	-	1.14
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.11e+07	1.05 y	40:14	-	0.93
26	ES 13C-OCDD	200.00	2.67e+07	0.87 y	43:49	-	0.59
27	ES 13C-2,3,7,8-TCDF	100.00	5.72e+07	0.80 y	26:08	-	0.94
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.79e+07	1.54 y	31:10	-	0.79
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.94e+07	1.58 y	32:18	-	0.81
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.16e+07	0.53 y	35:38	-	1.40
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.79e+07	0.54 y	35:47	-	1.68
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.42e+07	0.53 y	36:26	-	1.52
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.95e+07	0.53 y	37:25	-	1.31
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.44e+07	0.46 y	39:04	-	1.08
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.90e+07	0.45 y	40:49	-	0.84
36	ES 13C-OCDF	200.00	4.04e+07	0.90 y	44:03	-	0.90
37	CS 37Cl-2,3,7,8-TCDD	0.25	*		NotF>	-	*
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.88e+07	1.65 y	32:09	-	0.75
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.70e+07	1.59 y	30:38	-	0.77
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	3.17e+07	0.52 y	36:06	-	1.40
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	2.06e+07	0.44 y	39:34	-	0.91
42	NA n/a	100.00	*	* n	NotF>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.85e+07	0.83 y	26:24	3.85e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	6.08e+07	0.78 y	24:43	6.08e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.13e+07	1.26 y	36:56	2.26e+05	-

0.25 pg/ml

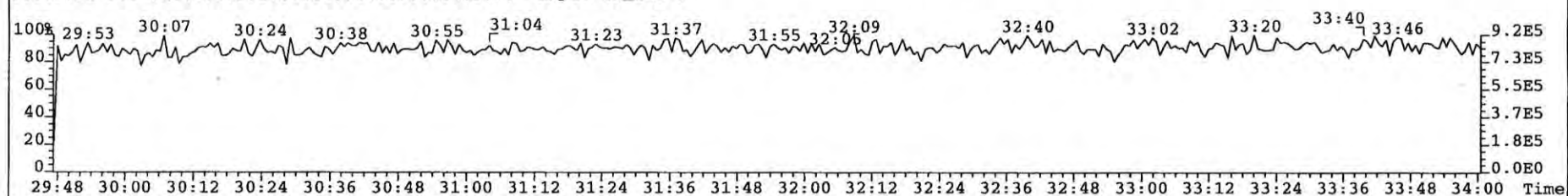
Analyst: 
 Date: 25 Dec 08

46	SS	37Cl-2,3,7,8-TCDD	0.25	*		NotF»	-	*
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.88e+07	1.65 y	32:09	-	0.96
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.70e+07	1.59 y	30:38	-	0.98
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.17e+07	0.52 y	36:06	-	0.83
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.06e+07	0.44 y	39:34	-	0.85 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.03
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.08 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.08
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.08
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	0.99 ✓
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	0.99
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	0.96
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.93
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.03
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.03
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.03
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.03 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	0.97
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.10
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.08 ✓
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	0.99
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	0.96
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.93 ✓
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.03
70	Tot	Total Penta-Furans	-	-	- n	-	-	0.97
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.10
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.25 ✓
73	Tot	TCDD EMPC	-	-	- n	-	-	1.08 ✓
74	Tot	PeCDD EMPC	-	-	- n	-	-	0.99
75	Tot	HxCDD EMPC	-	-	- n	-	-	0.96
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.93 ✓
77	Tot	TCDF EMPC	-	-	- n	-	-	1.03
78	Tot	PeCDF EMPC	-	-	- n	-	-	0.97
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.10
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.25 ✓
81	AS	13C-1,3,6,8-TCDD	100.00	4.21e+07	0.82 y	23:09	-	1.09
82	AS	13C-1,3,6,8-TCDF	100.00	6.69e+07	0.78 y	20:57	-	1.10 ✓
83	DPE	HxCDF	-	1.87e+04		26:22	-	-
84	DPE	HpCDF	-	7.50e+03		31:07	-	-
85	DPE	OCDF	-	1.72e+04		34:48	-	-
86	DPE	NCDF	-	6.93e+03		40:03	-	-
87	DPE	DCDF	-	*		NotF»	-	-
88	LMC	Fn1 check mass	-	*		NotF»	-	-
89	LMC	Fn2 check mass	-	*		NotF»	-	-
90	LMC	Fn3 check mass	-	*		NotF»	-	-
91	LMC	Fn4 check mass	-	*		NotF»	-	-
92	LMC	Fn5 check mass	-	*		NotF»	-	-

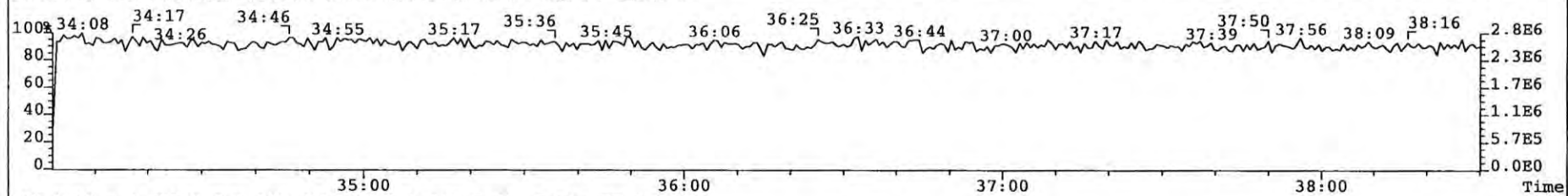
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



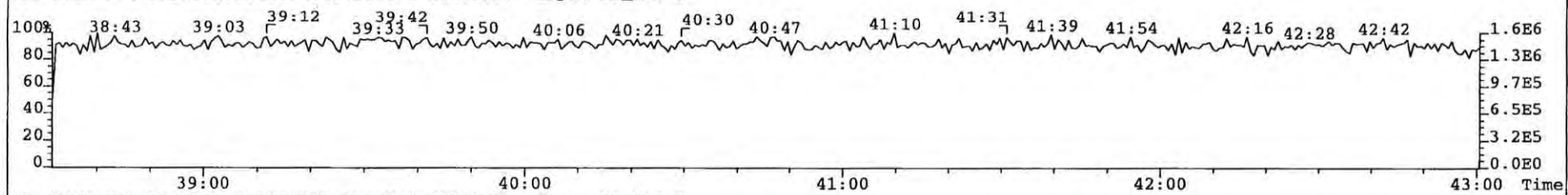
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



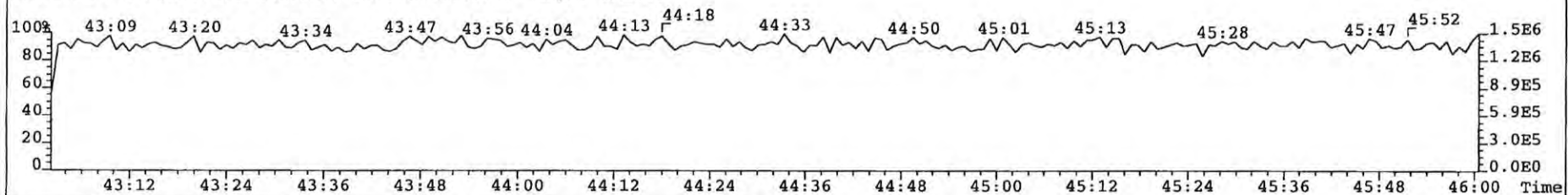
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



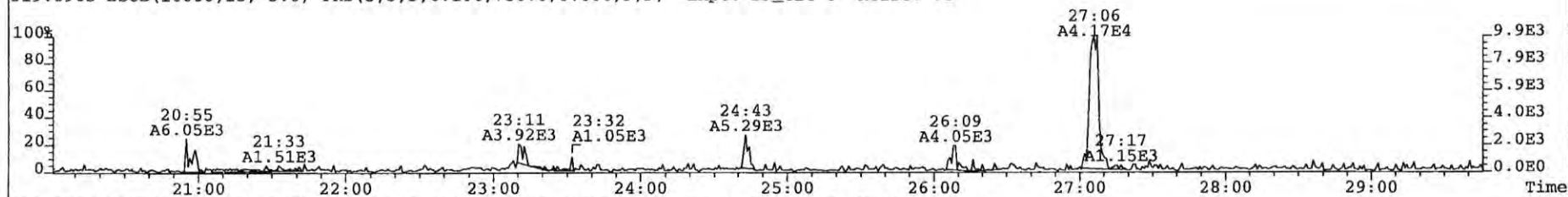
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



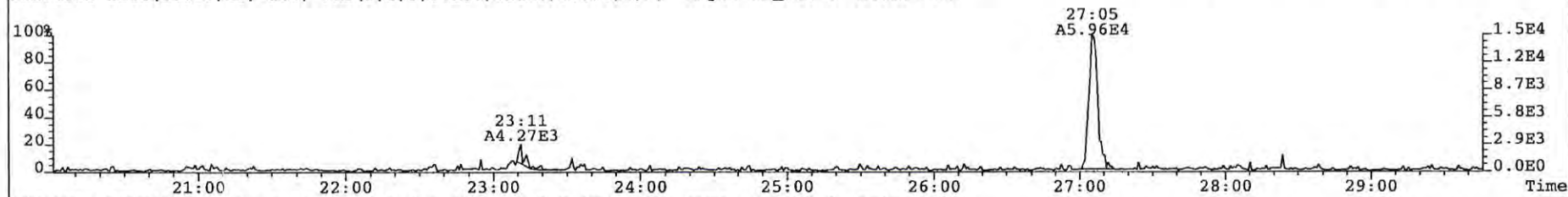
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



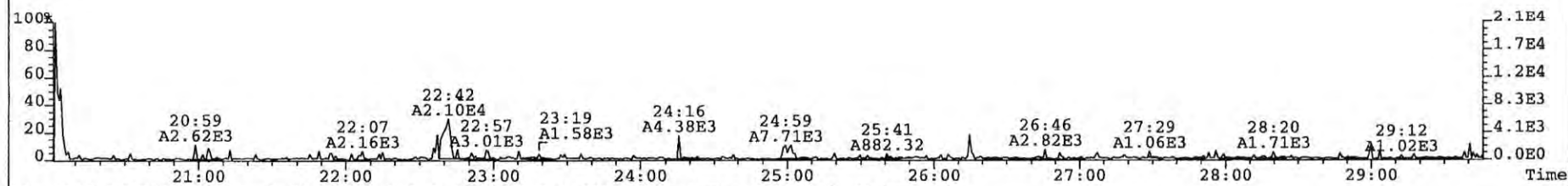
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 73



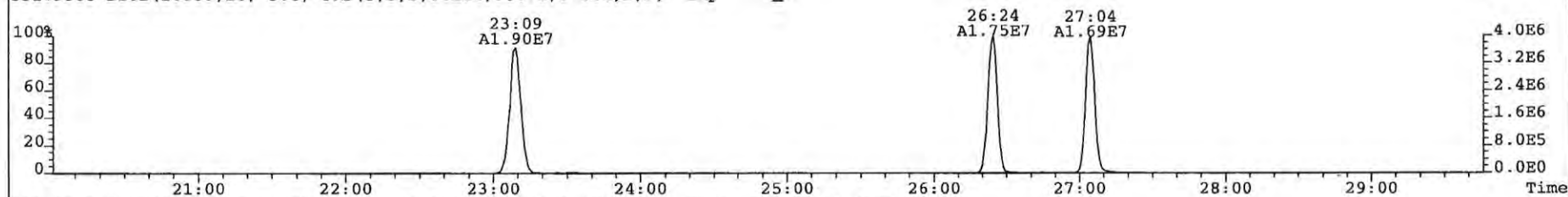
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 72



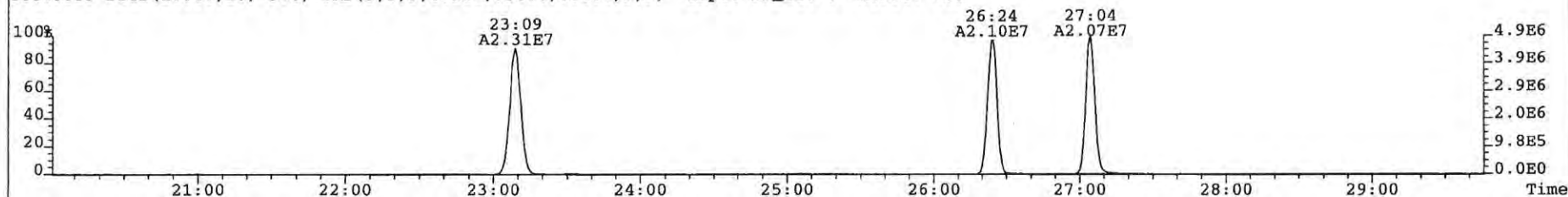
327.8850 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



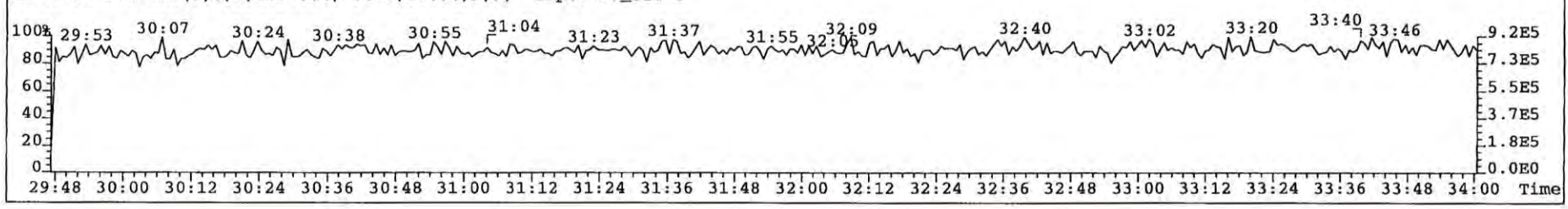
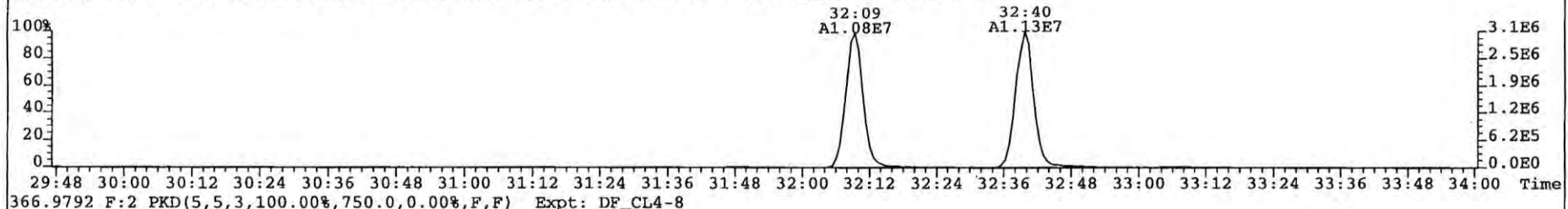
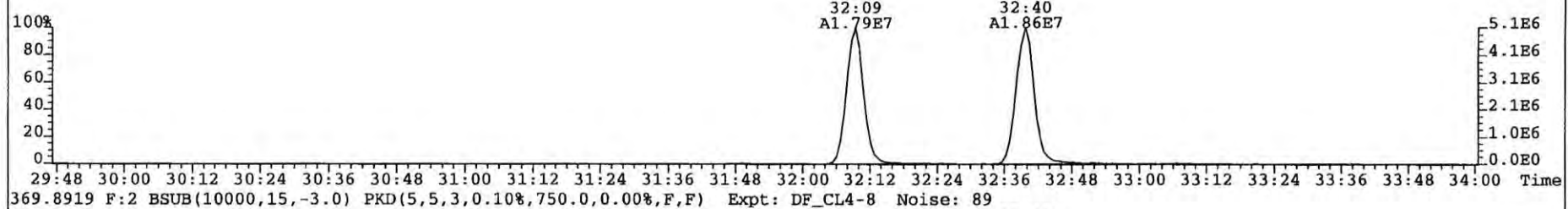
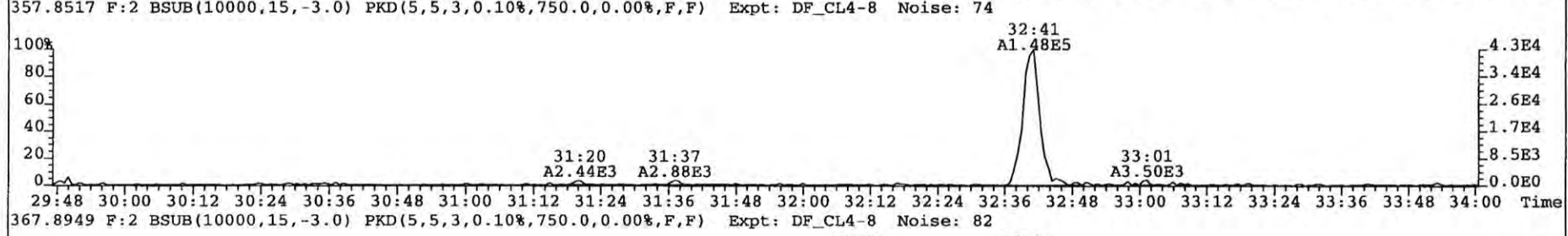
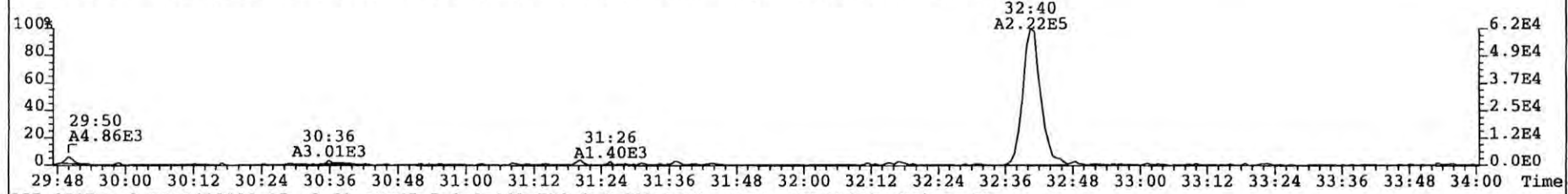
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 89



333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 105



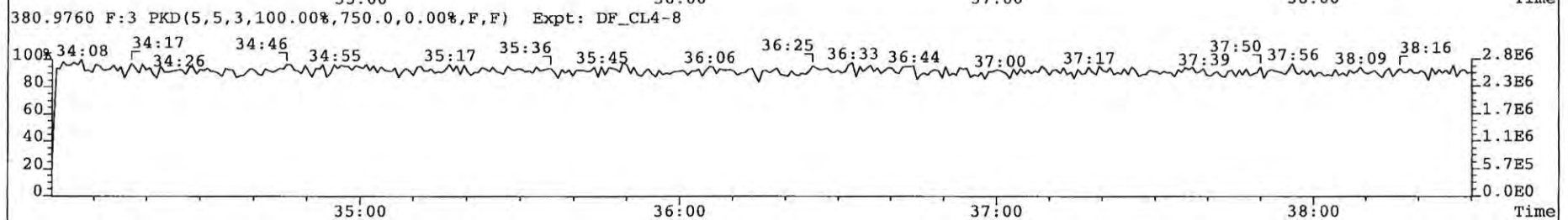
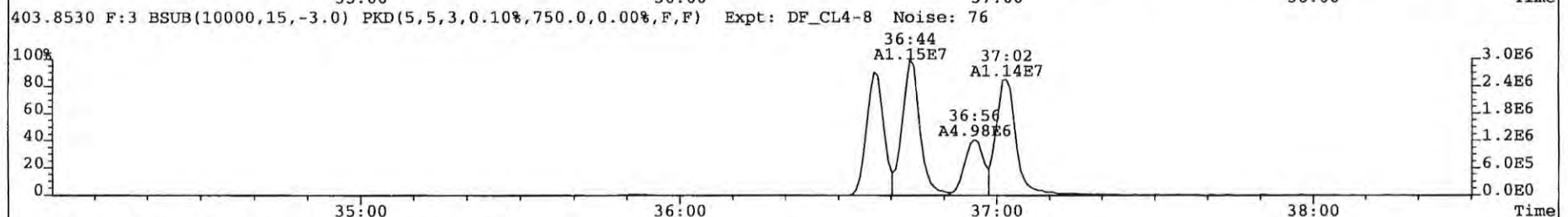
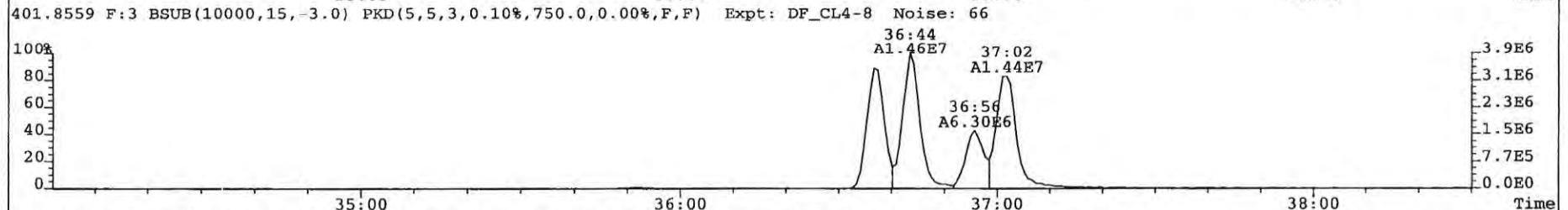
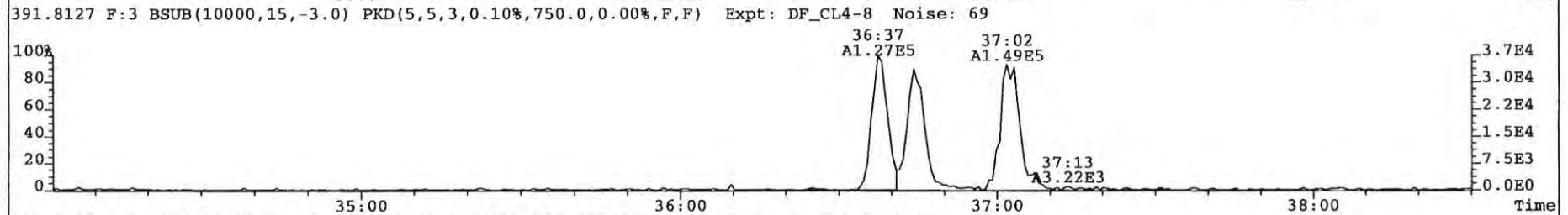
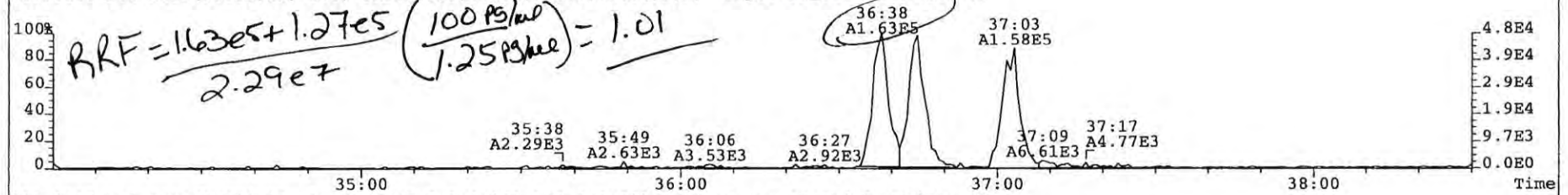
File: 08I225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 73



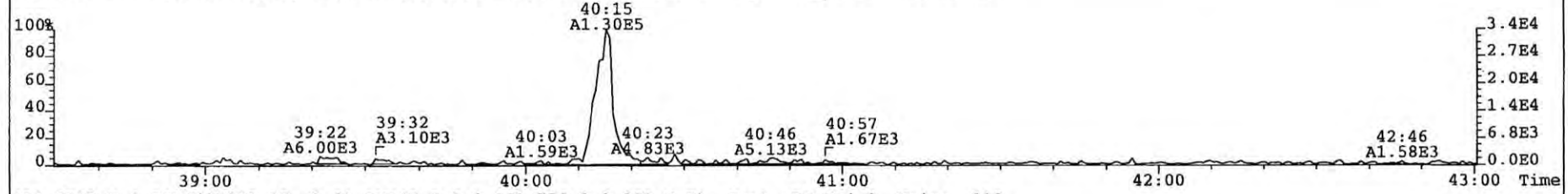
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5

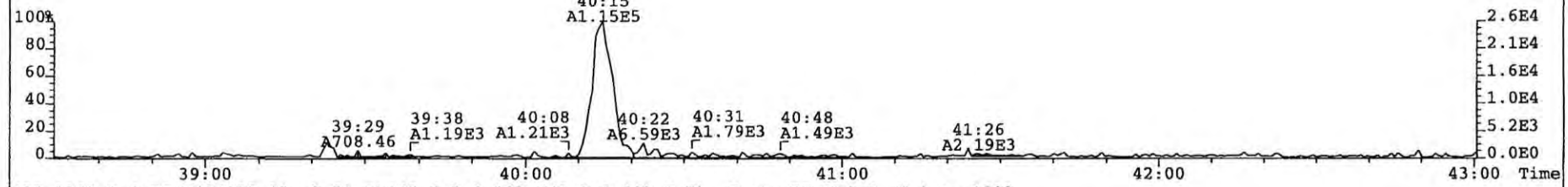
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 81



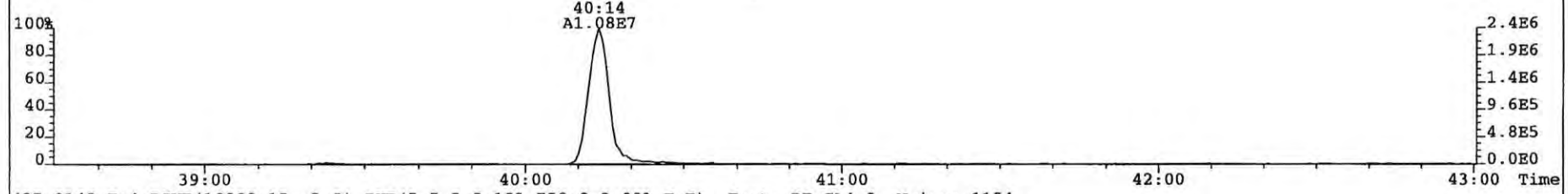
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 137



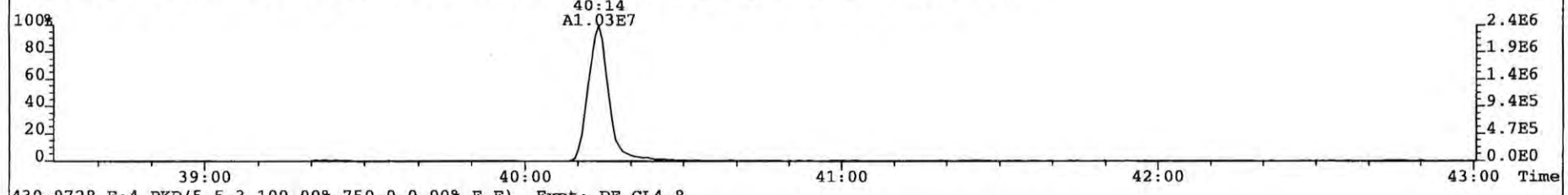
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 112



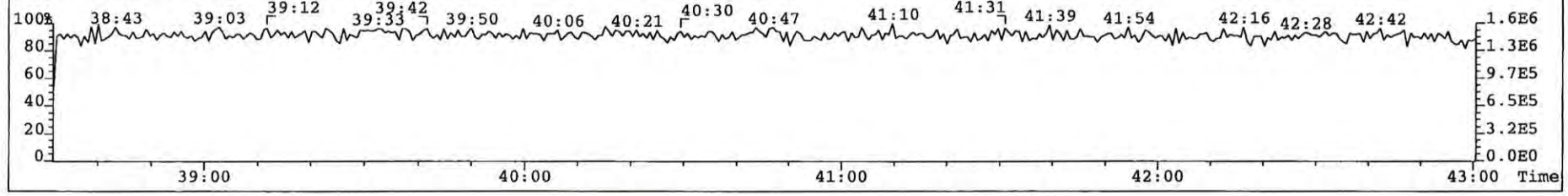
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1083



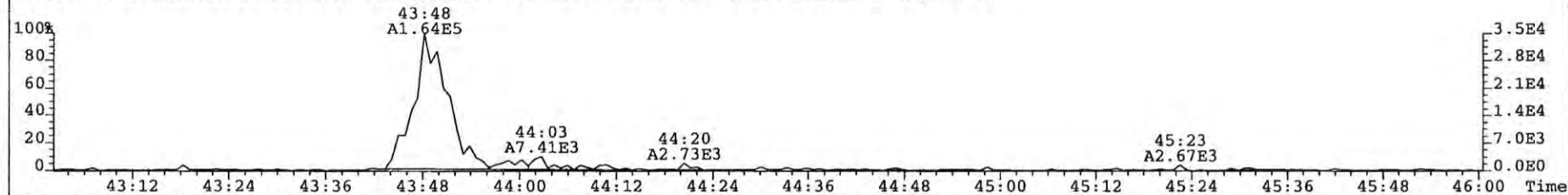
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1154



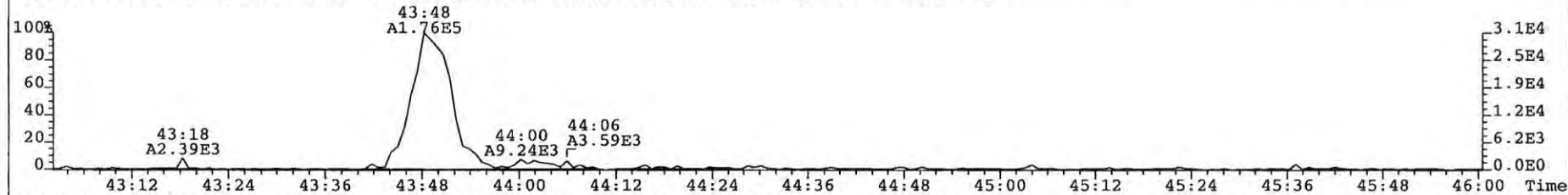
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



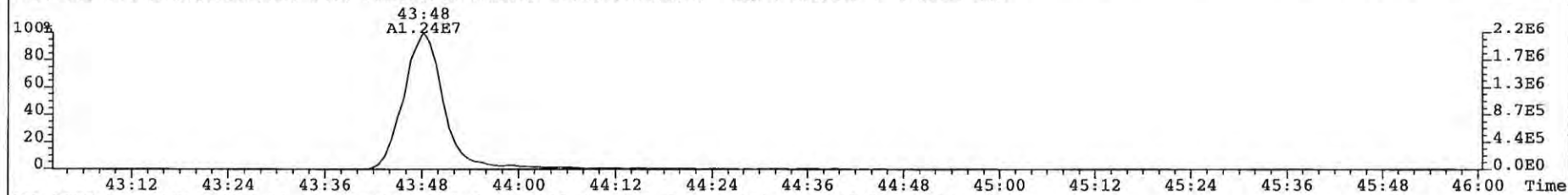
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 75



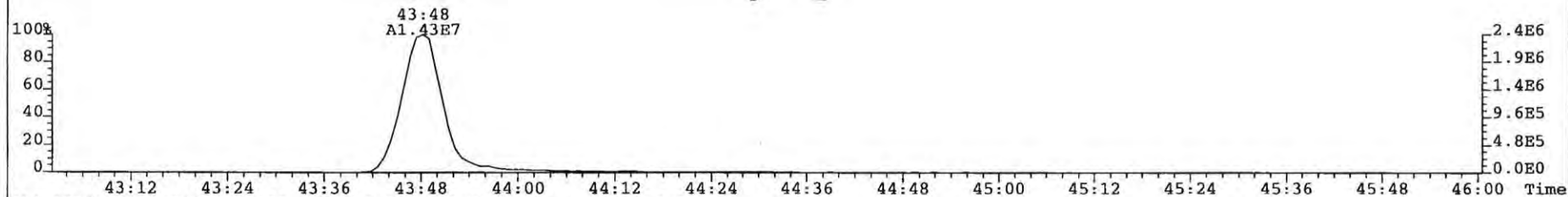
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 63



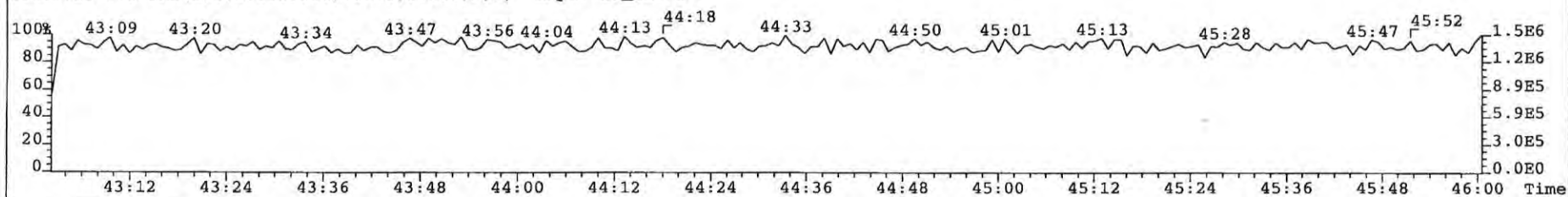
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 338



471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 346



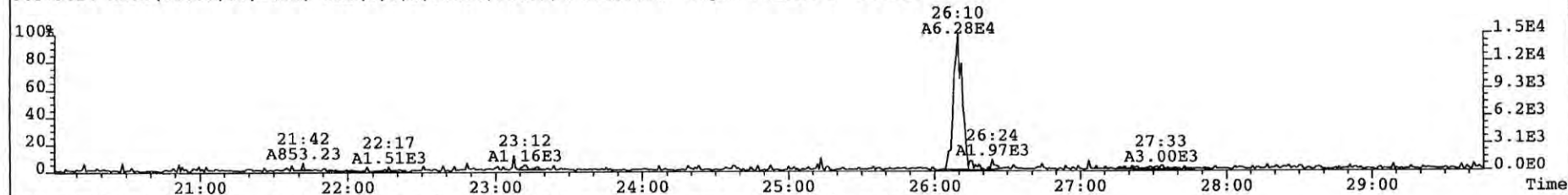
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



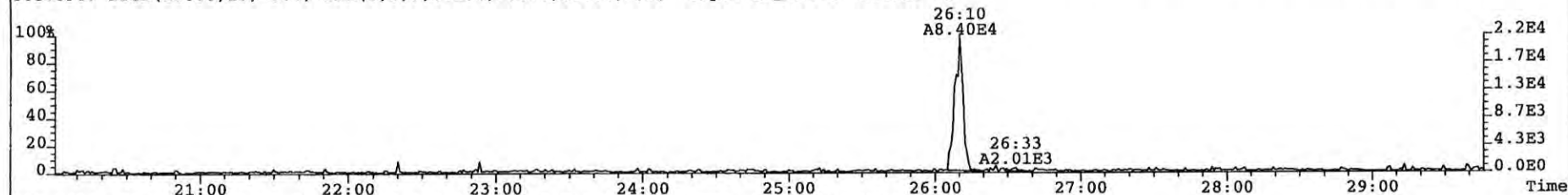
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5

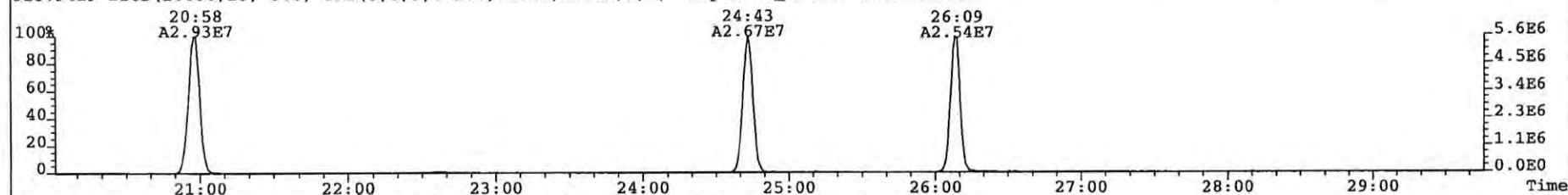
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



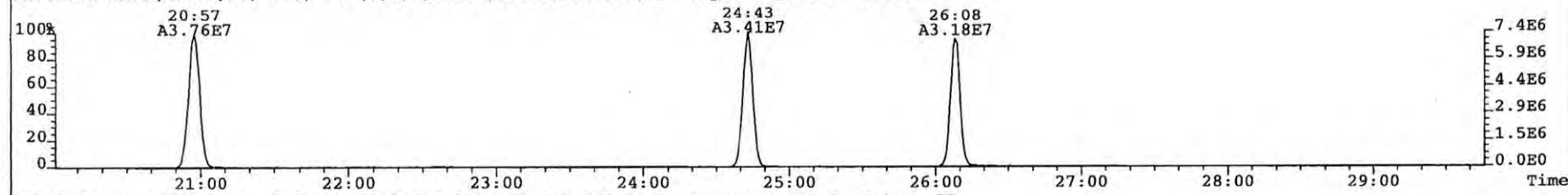
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 75



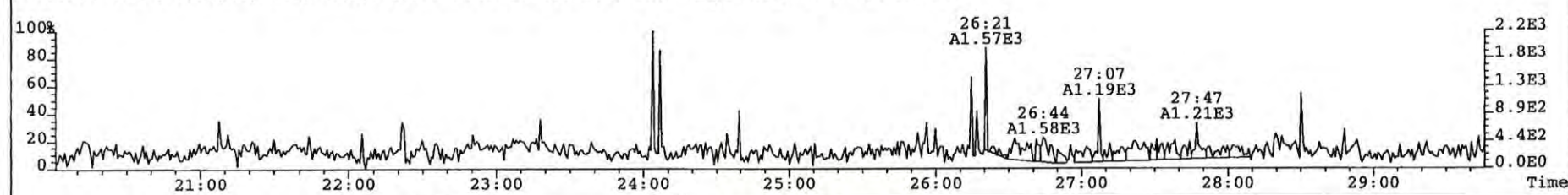
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 109



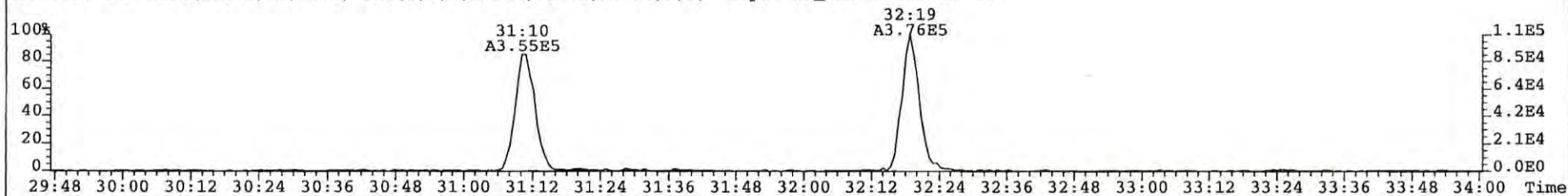
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



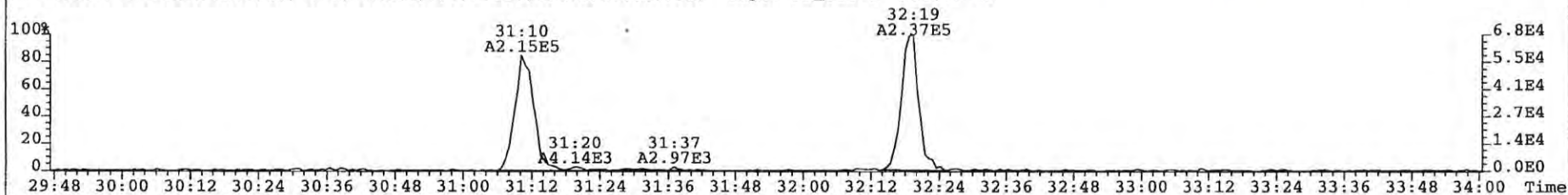
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



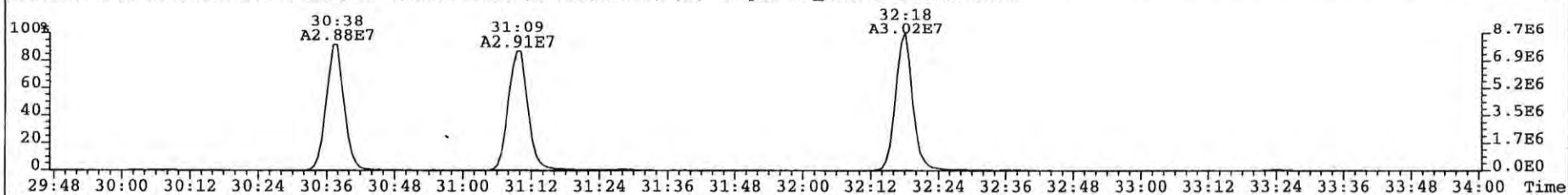
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78



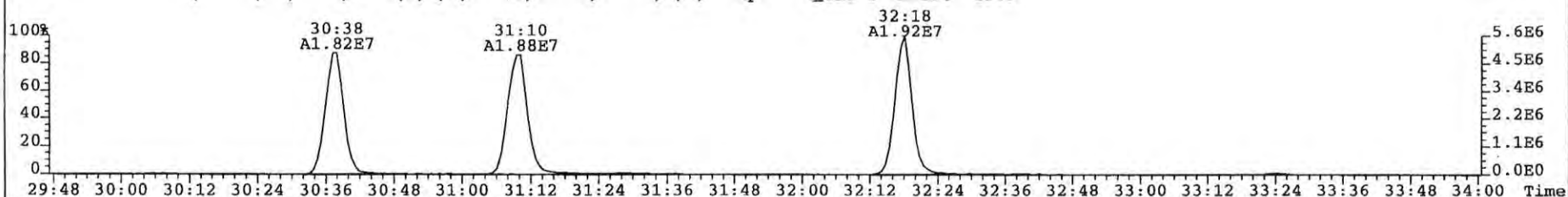
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



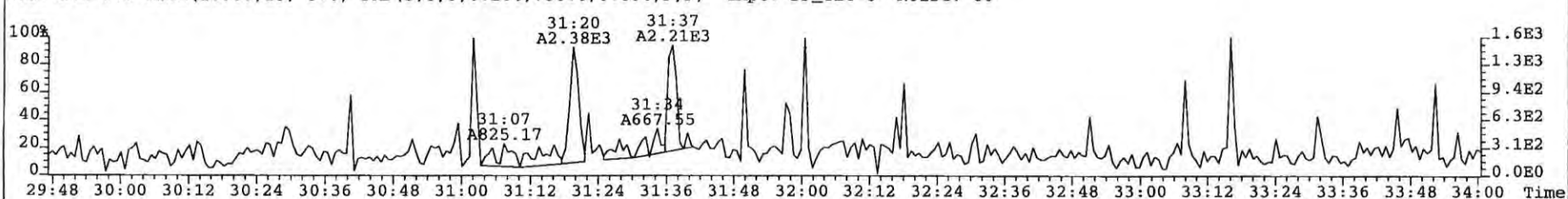
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1837



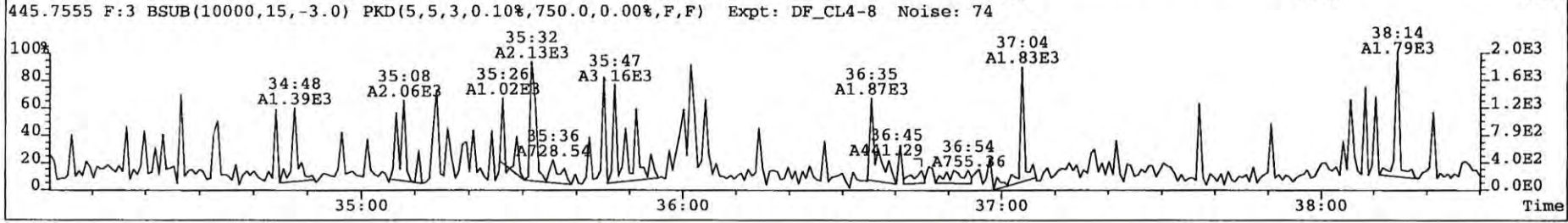
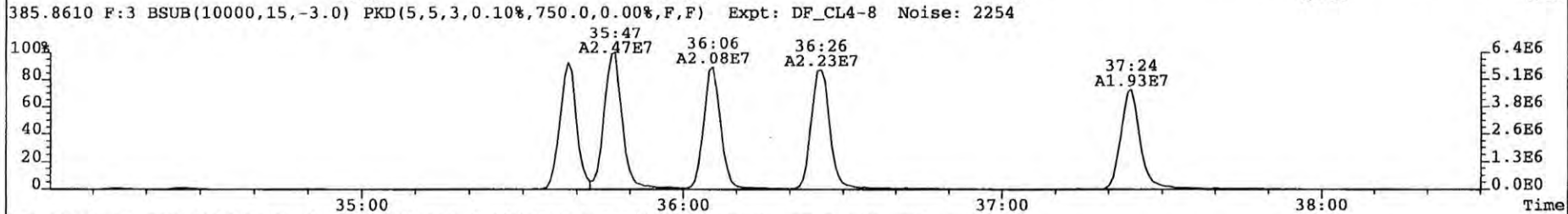
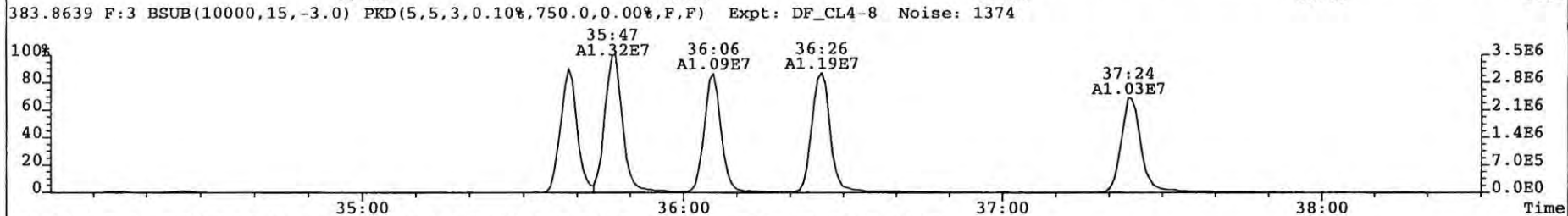
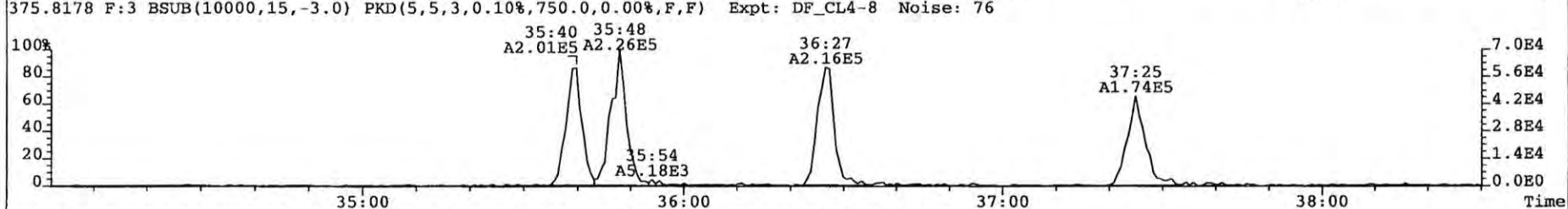
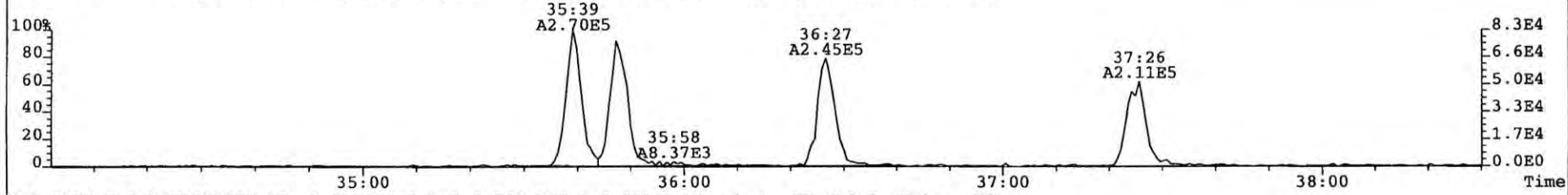
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1363



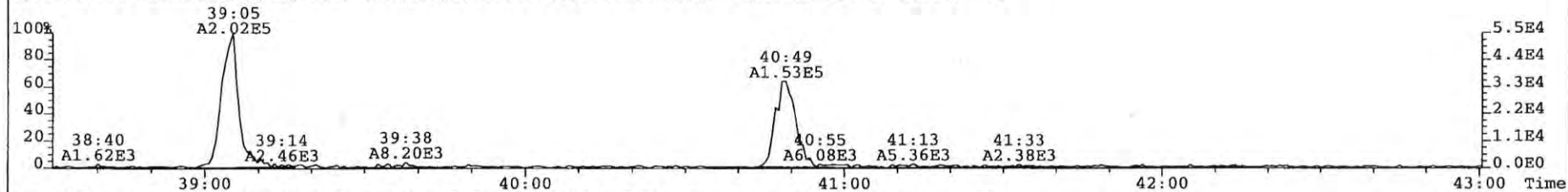
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



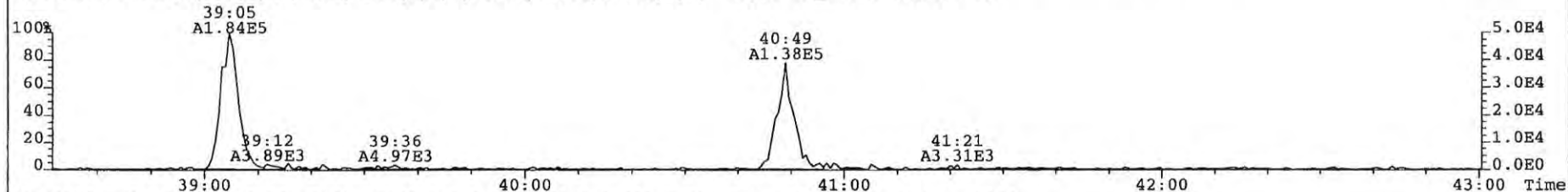
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



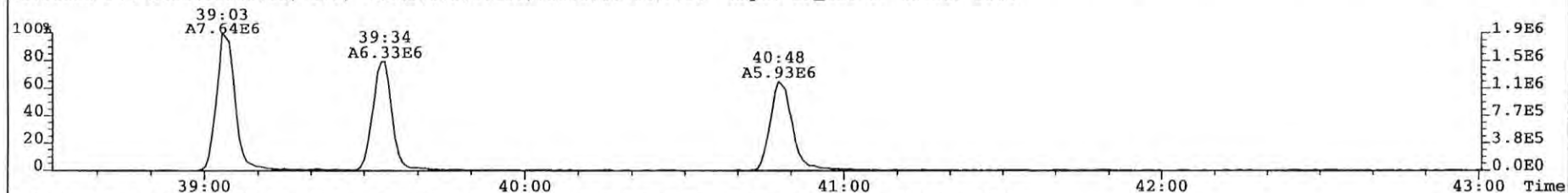
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 161



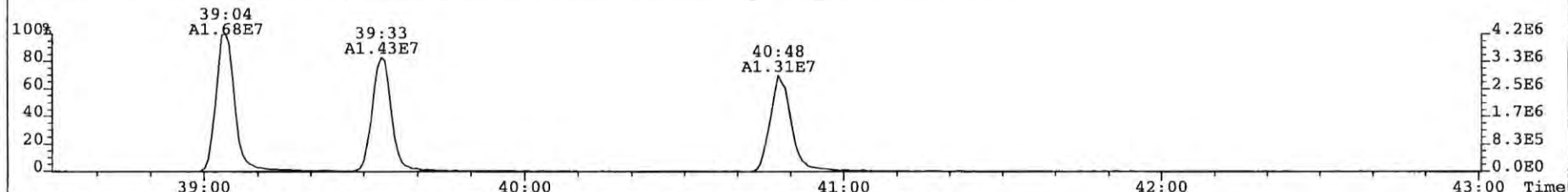
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



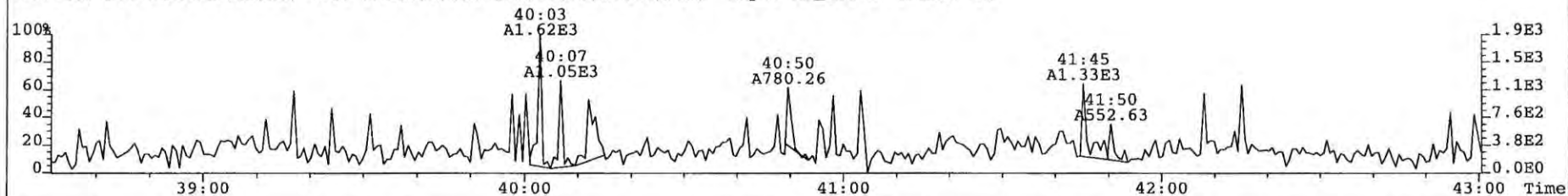
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1304



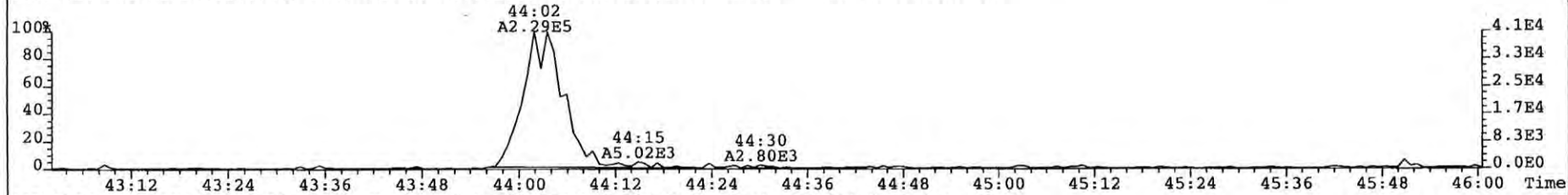
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1876



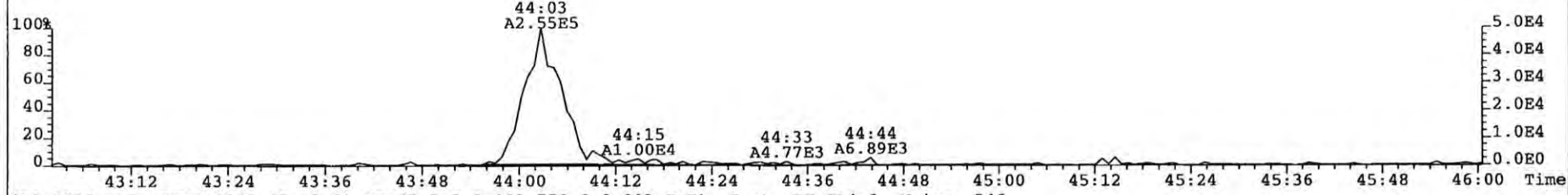
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 93



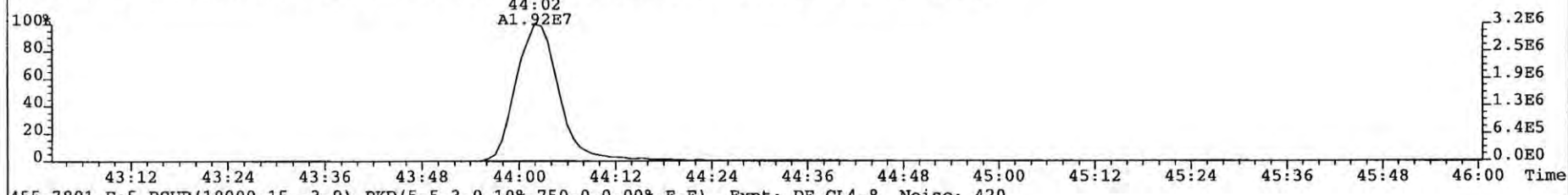
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 75



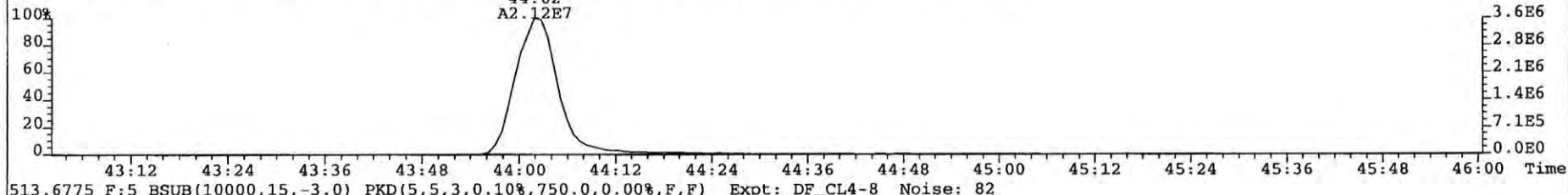
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 67



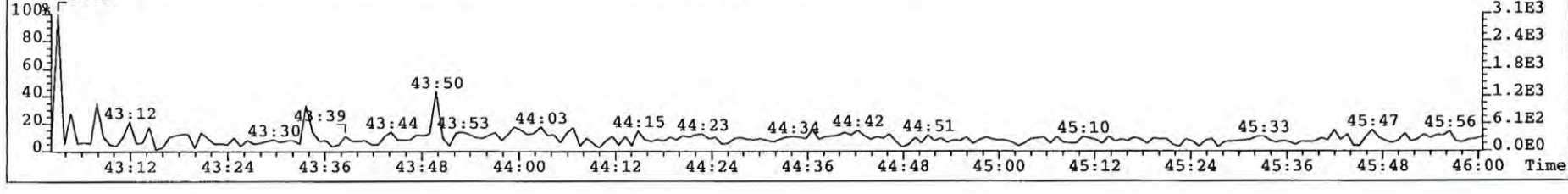
453.7830 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 246



455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 420



513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 82



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS1 ✓
 Lab ID: SIL7-26-2
 Sample text: SIL7-26-2 NEW ICAL CS1

Filename: 081225P1 S: 2 Acq: 25-DEC-08 11:02:27 ✓
 GC Column ID: db-5 ICal: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 17

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	0.50	1.83e+05	0.88 y	27:06	-	1.00 ✓
2	Ax 1,2,3,7,8-PeCDD	2.50	6.90e+05	1.55 y	32:41	-	0.94
3	Ax 1,2,3,4,7,8-HxCDD	2.50	6.09e+05	1.22 y	36:38	-	1.06
4	Ax 1,2,3,6,7,8-HxCDD	2.50	5.43e+05	1.32 y	36:45	-	0.84 ✓
5	Ax 1,2,3,7,8,9-HxCDD	2.50	5.73e+05	1.26 y	37:03	-	0.89
6	Ax 1,2,3,4,6,7,8-HpCDD	2.50	4.74e+05	1.06 y	40:15	-	0.94
7	Ax OCDD	5.00	6.22e+05	0.82 y	43:49	-	1.00 ✓
8	Ax2 OCDD-a	5.00	*	* n	NotF>	-	*
9	Ax 2,3,7,8-TCDF	0.50	2.95e+05	0.78 y	26:09	-	1.03 ✓
10	Ax 1,2,3,7,8-PeCDF	2.50	1.13e+06	1.57 y	31:11	-	0.96
11	Ax 2,3,4,7,8-PeCDF	2.50	1.21e+06	1.57 y	32:19	-	0.97
12	Ax 1,2,3,4,7,8-HxCDF	2.50	8.96e+05	1.22 y	35:40	-	1.14 ✓
13	Ax 1,2,3,6,7,8-HxCDF	2.50	1.01e+06	1.36 y	35:48	-	1.09
14	Ax 2,3,4,6,7,8-HxCDF	2.50	9.19e+05	1.29 y	36:27	-	1.09
15	Ax 1,2,3,7,8,9-HxCDF	2.50	7.42e+05	1.35 y	37:25	-	1.06
16	Ax 1,2,3,4,6,7,8-HpCDF	2.50	7.99e+05	1.05 y	39:05	-	1.36 ✓
17	Ax 1,2,3,4,7,8,9-HpCDF	2.50	5.60e+05	0.99 y	40:49	-	1.22
18	Ax OCDF	5.00	8.65e+05	0.84 y	44:03	-	0.91 ✓
19	Ax2 OCDF-a	5.00	*	* n	NotF>	-	*
20	ES 13C-2,3,7,8-TCDD	100.00	3.65e+07	0.82 y	27:04	-	0.96 ✓
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.95e+07	1.66 y	32:40	-	0.77
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.29e+07	1.26 y	36:37	-	1.02 ✓
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.58e+07	1.29 y	36:44	-	1.15 ✓
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.57e+07	1.32 y	37:02	-	1.14 ✓
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.02e+07	1.05 y	40:14	-	0.90 ✓
26	ES 13C-OCDD	200.00	2.49e+07	0.86 y	43:49	-	0.55 ✓
27	ES 13C-2,3,7,8-TCDF	100.00	5.71e+07	0.78 y	26:08	-	0.93 ✓
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.70e+07	1.58 y	31:10	-	0.77
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.95e+07	1.60 y	32:18	-	0.81
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.15e+07	0.53 y	35:39	-	1.40
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.72e+07	0.53 y	35:47	-	1.65 ✓
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.36e+07	0.53 y	36:26	-	1.49
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.81e+07	0.52 y	37:25	-	1.25
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.35e+07	0.46 y	39:04	-	1.04 ✓
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.84e+07	0.45 y	40:49	-	0.82
36	ES 13C-OCDF	200.00	3.80e+07	0.90 y	44:03	-	0.84 ✓
37	CS 37Cl-2,3,7,8-TCDD	0.50	1.87e+05		27:06	-	0.98 ✓
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.91e+07	1.68 y	32:10	-	0.76
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.72e+07	1.59 y	30:38	-	0.77
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	3.19e+07	0.53 y	36:06	-	1.42
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	2.00e+07	0.46 y	39:34	-	0.89 ✓
42	NA n/a	100.00	*	* n	NotF>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.81e+07	0.83 y	26:24	3.81e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	6.14e+07	0.78 y	24:43	6.14e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.13e+07	1.18 y	36:56	2.25e+05	-

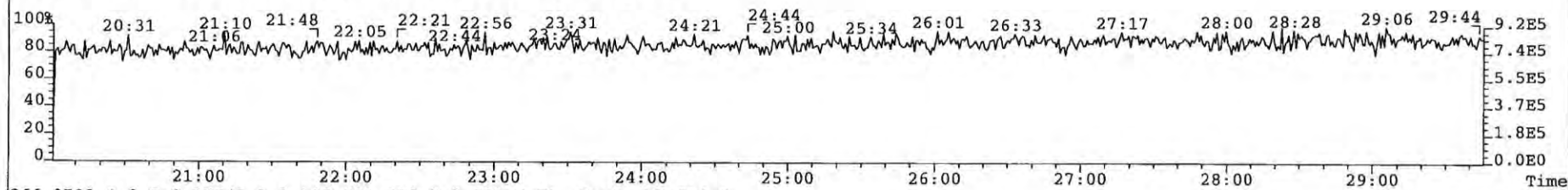
0.50 pg/ml

calc.

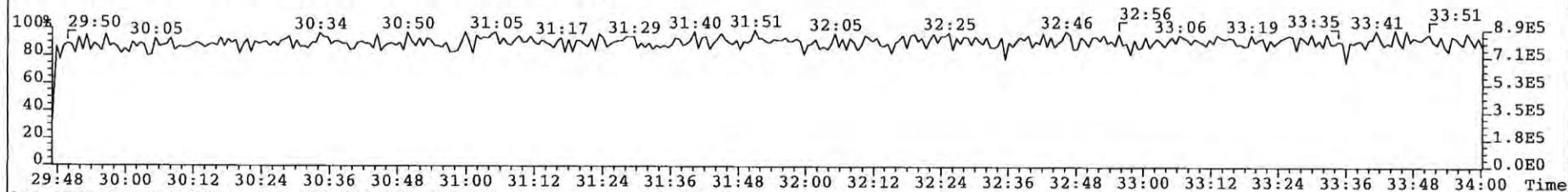
Analyst: *[Signature]*
 Date: 25/12/08

46	SS	37C1-2,3,7,8-TCDD	0.50	1.87e+05		27:06	-	1.02 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.91e+07	1.68 y	32:10	-	0.99
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.72e+07	1.59 y	30:38	-	1.00
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.19e+07	0.53 y	36:06	-	0.86
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.00e+07	0.46 y	39:34	-	0.85 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.03 •
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.00 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.00
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.00
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	0.94
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	0.94
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	0.93
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.94 ✓
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.03
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.03
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.03
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.03
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	0.97
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.09 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.00
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	0.94
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	0.93
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.94
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.03
70	Tot	Total Penta-Furans	-	-	- n	-	-	0.97
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.09
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.30
73	Tot	TCDD EMPC	-	-	- n	-	-	1.00
74	Tot	PeCDD EMPC	-	-	- n	-	-	0.94
75	Tot	HxCDD EMPC	-	-	- n	-	-	0.93
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.94
77	Tot	TCDF EMPC	-	-	- n	-	-	1.03
78	Tot	PeCDF EMPC	-	-	- n	-	-	0.97
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.09
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.30
81	AS	13C-1,3,6,8-TCDD	100.00	4.21e+07	0.82 y	23:09	-	1.10 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.72e+07	0.78 y	20:57	-	1.10 ✓
83	DPE	HxCDPE	-	1.47e+04		24:40	-	-
84	DPE	HpCDPE	-	1.68e+04		31:36	-	-
85	DPE	OCdPE	-	1.68e+04		34:37	-	-
86	DPE	NCDPE	-	*		NotF»	-	-
87	DPE	DCDPE	-	*		NotF»	-	-
88	LMC	Fn1 check mass	-	*		NotF»	-	-
89	LMC	Fn2 check mass	-	*		NotF»	-	-
90	LMC	Fn3 check mass	-	*		NotF»	-	-
91	LMC	Fn4 check mass	-	*		NotF»	-	-
92	LMC	Fn5 check mass	-	*		NotF»	-	-

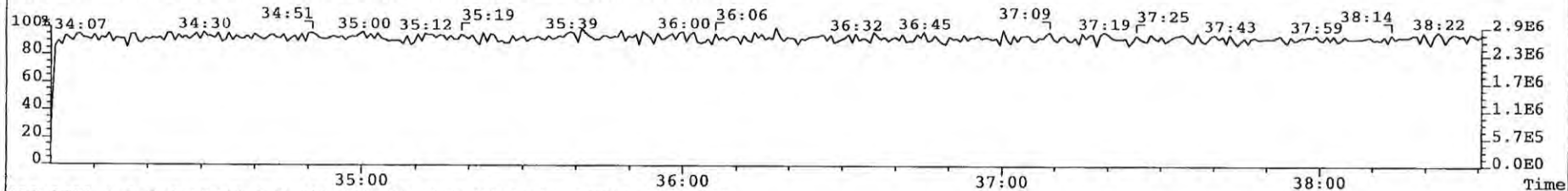
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



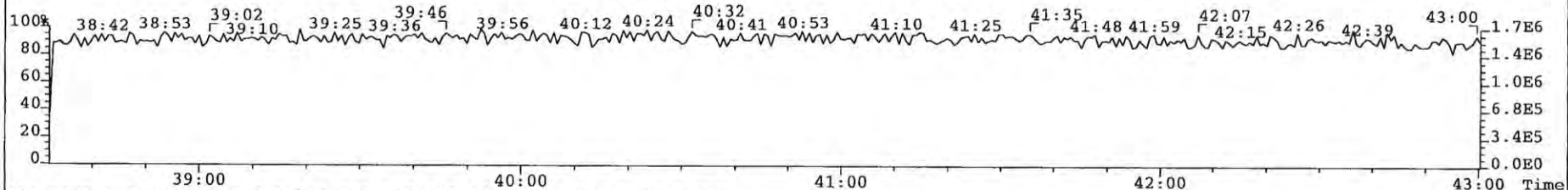
366.9792 S:2 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



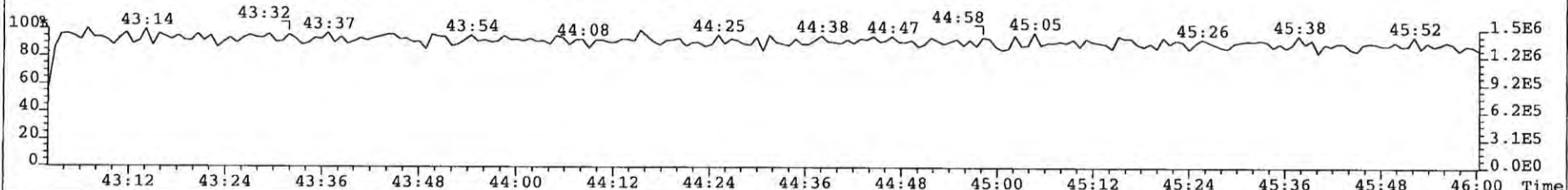
380.9760 S:2 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



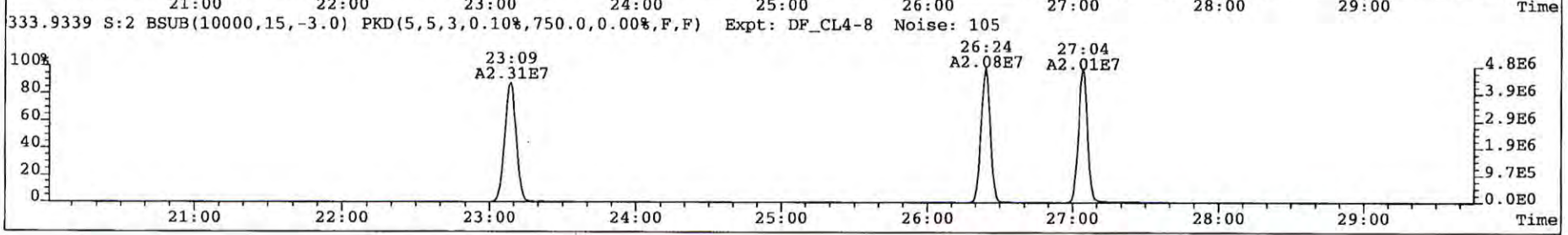
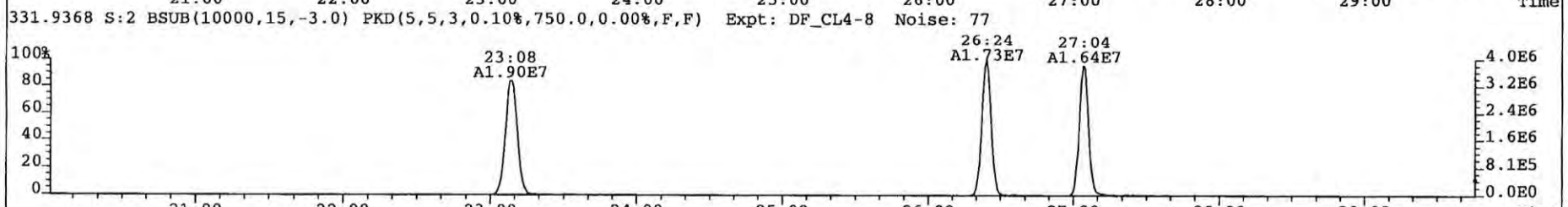
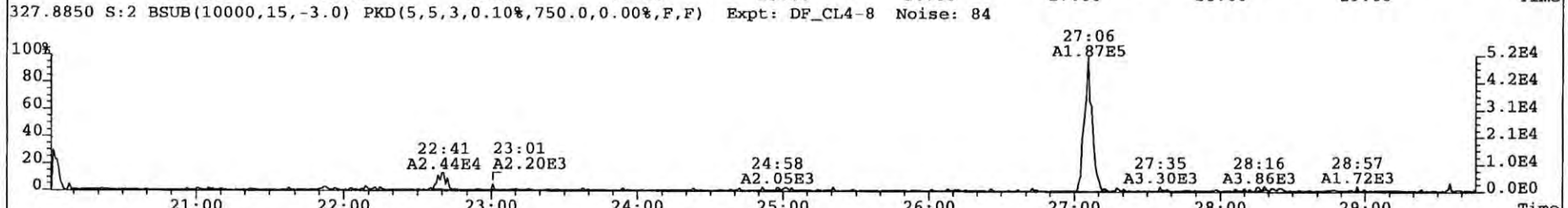
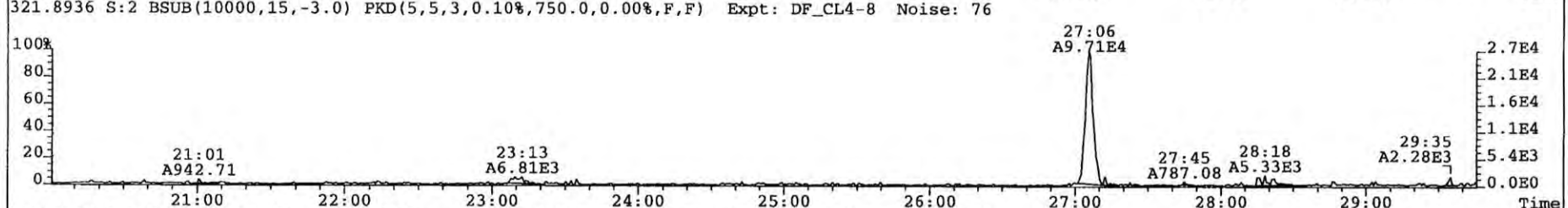
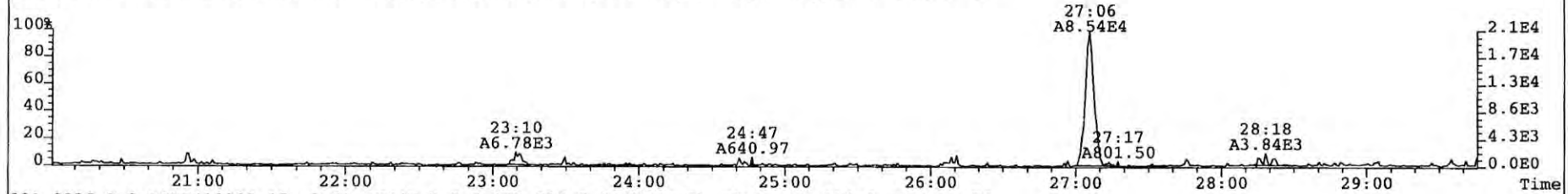
430.9728 S:2 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



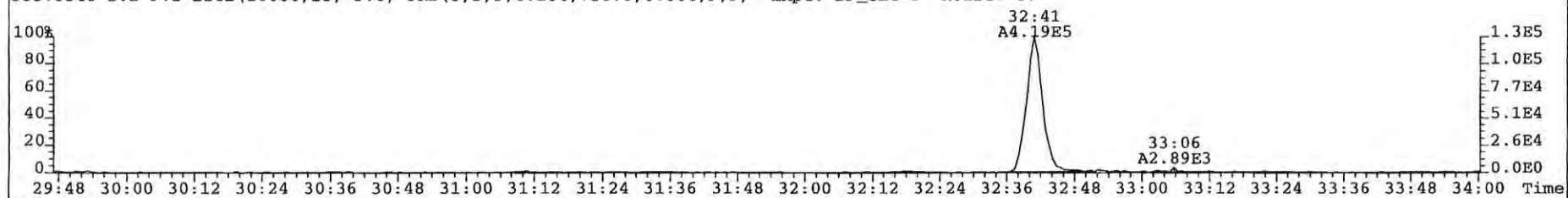
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 81



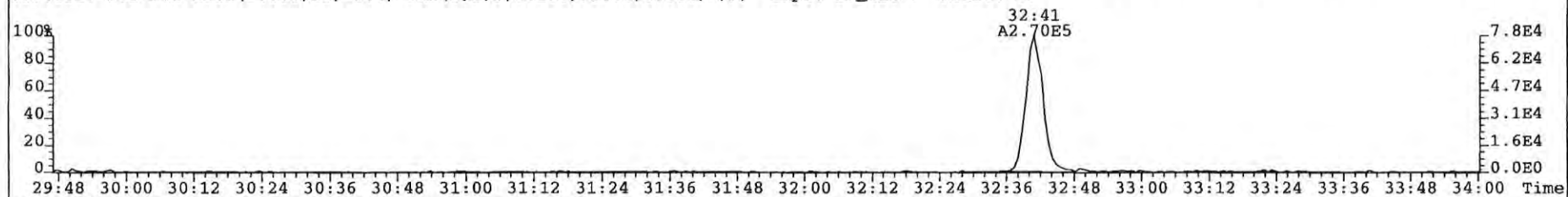
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5

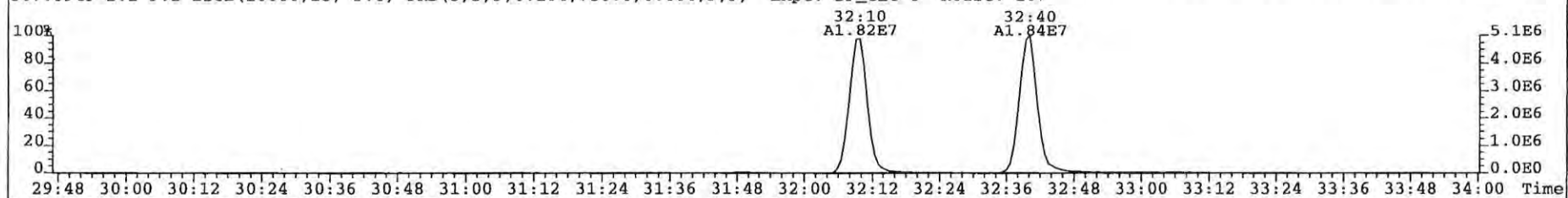
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 87



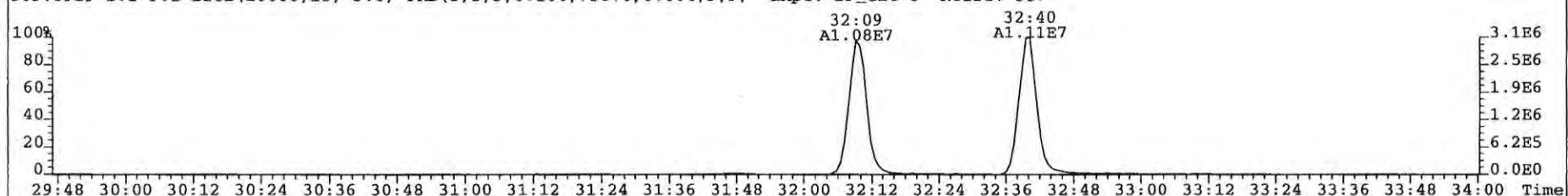
357.8517 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 83



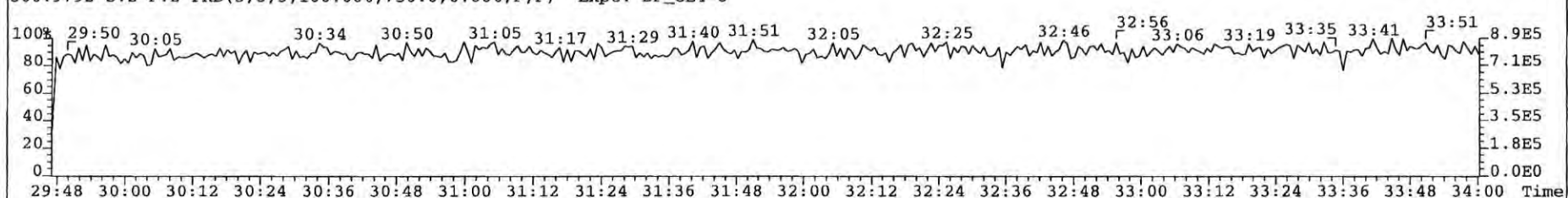
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 107



369.8919 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 357



366.9792 S:2 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8

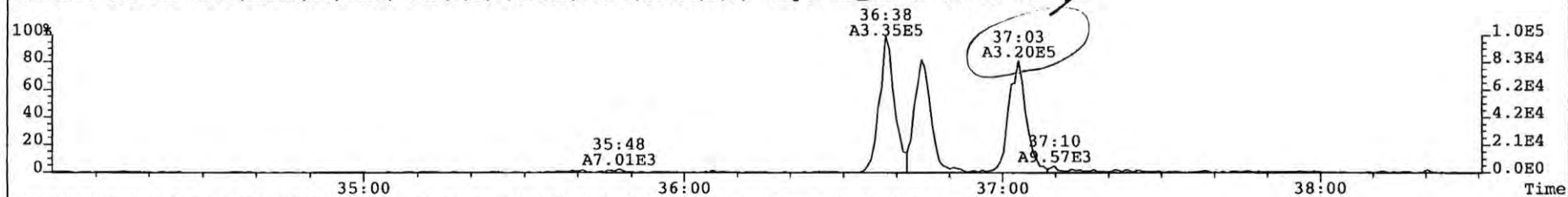


EE 7m 30 Dec 08
RF

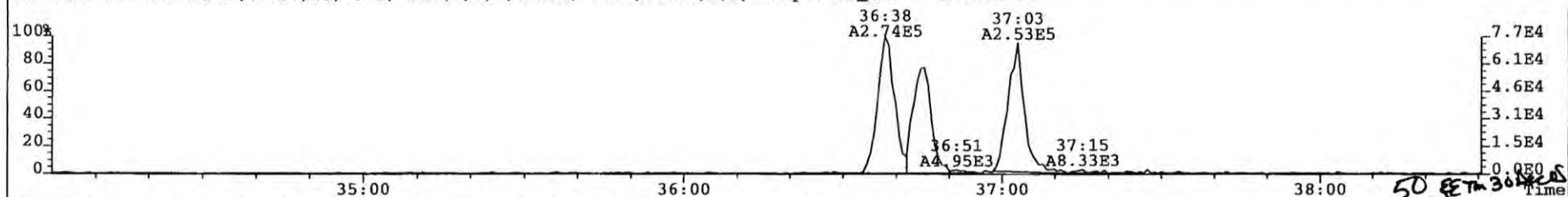
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5

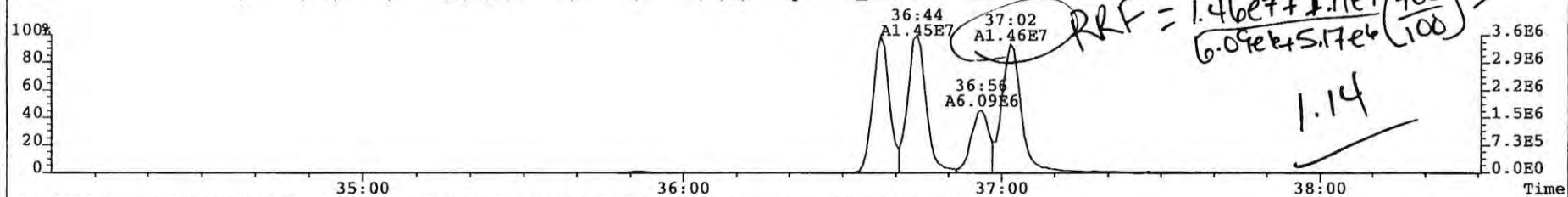
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 72



391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78

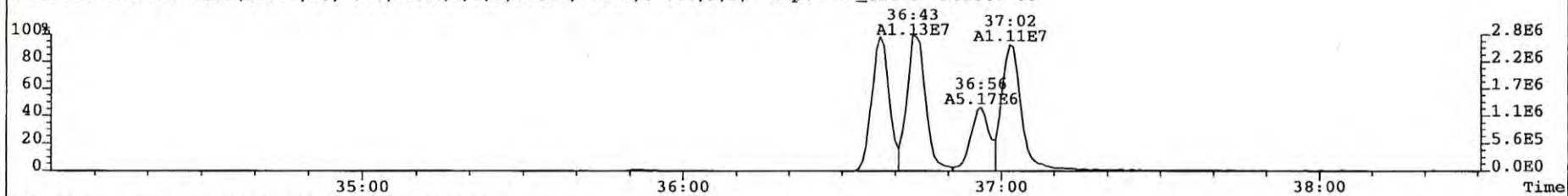


401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 104

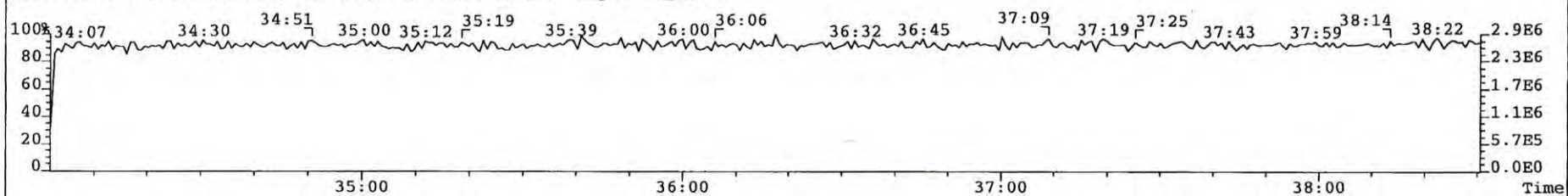


RF = $\frac{1.46e7 + 1.1e7}{6.09e6 + 5.17e6} \left(\frac{50}{100} \right) = 1.14$

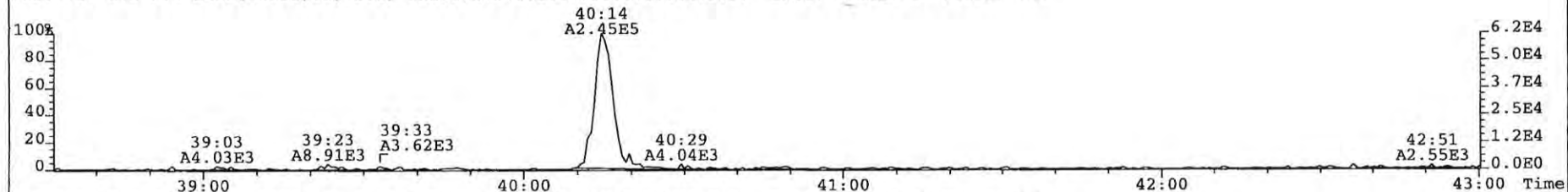
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 85



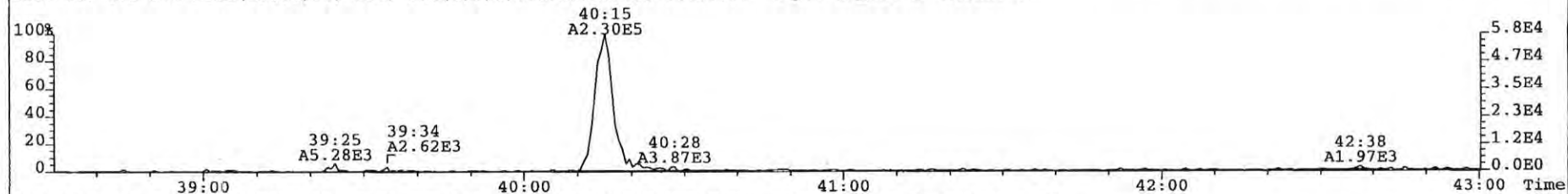
380.9760 S:2 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



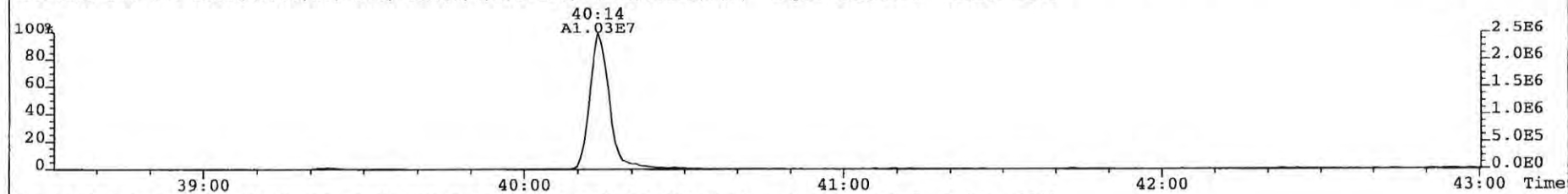
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 108



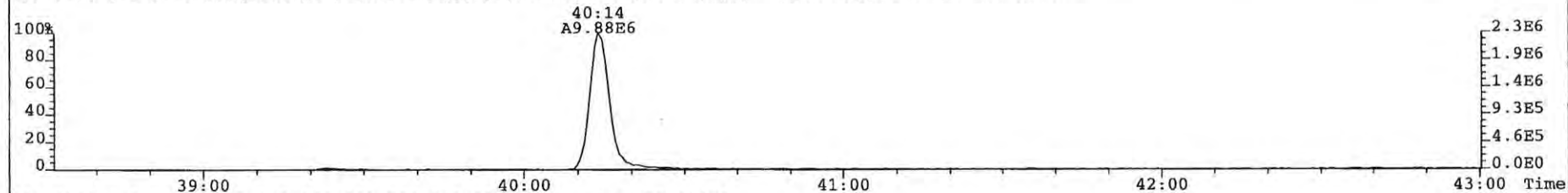
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



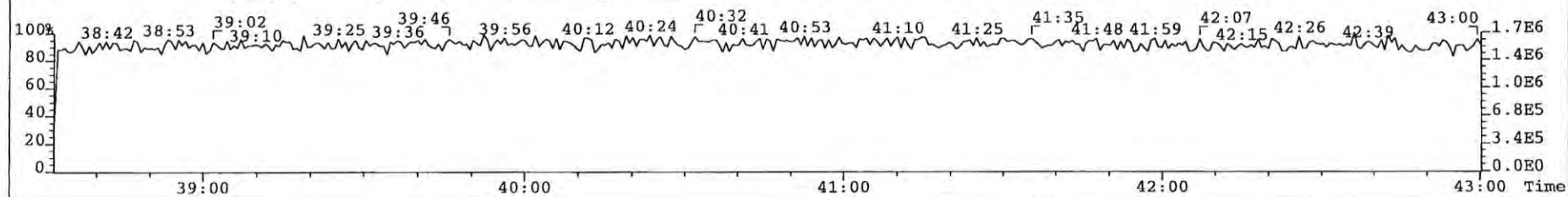
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1108



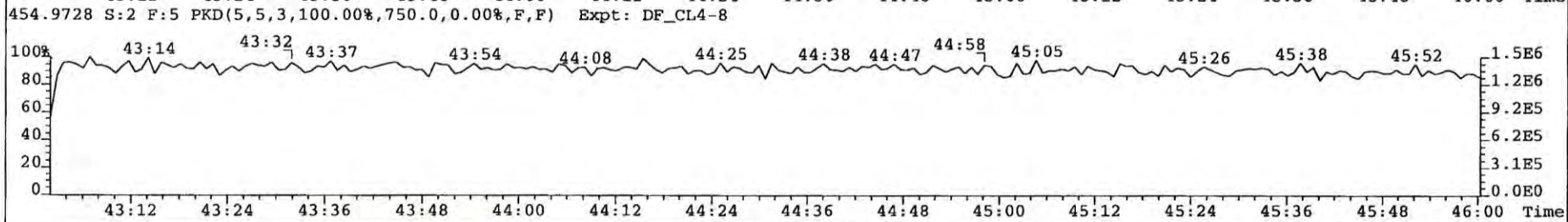
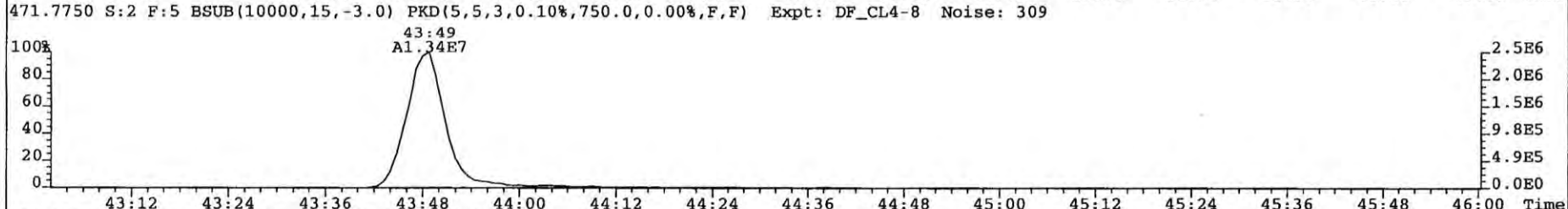
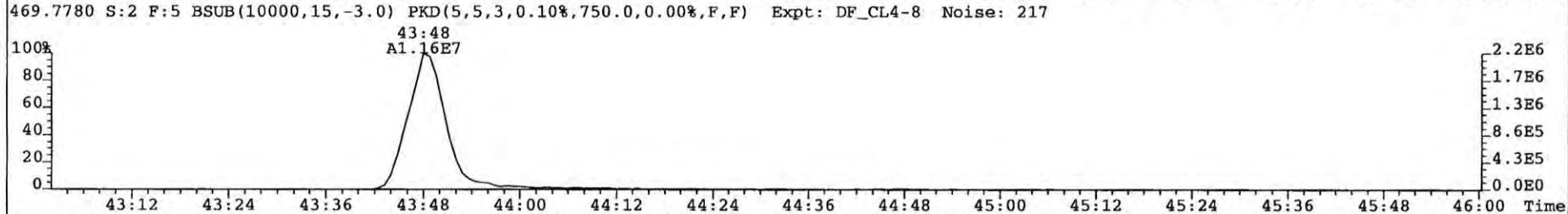
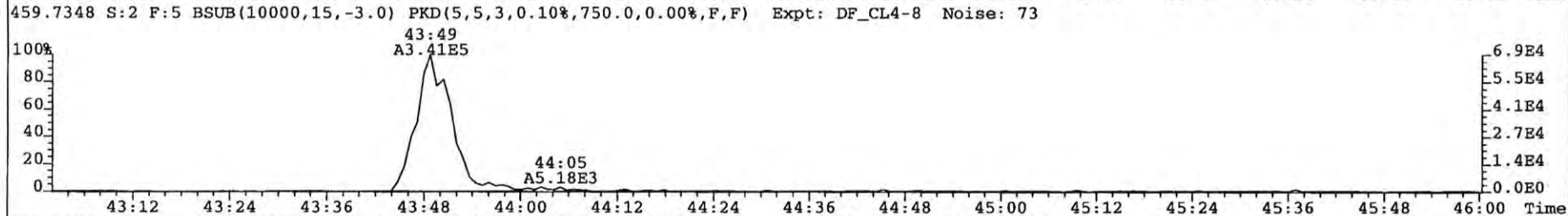
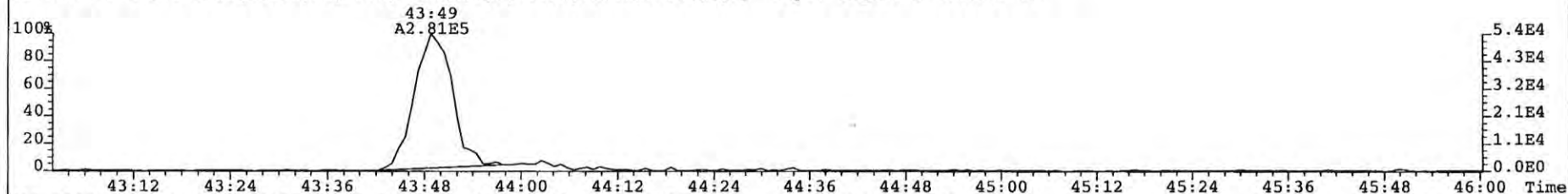
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1219



430.9728 S:2 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



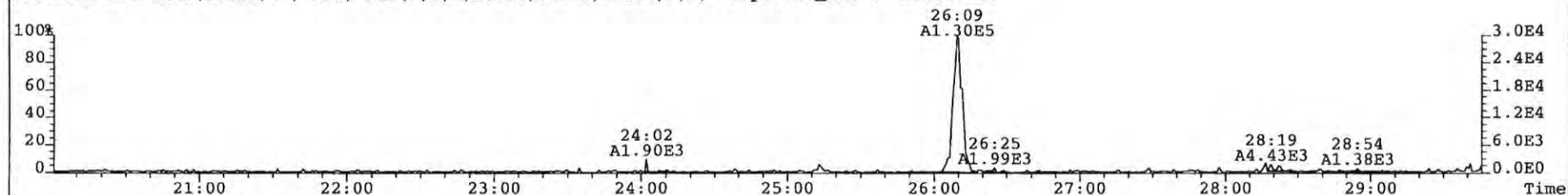
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CSI Vial# 17 File Text: AP DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 72



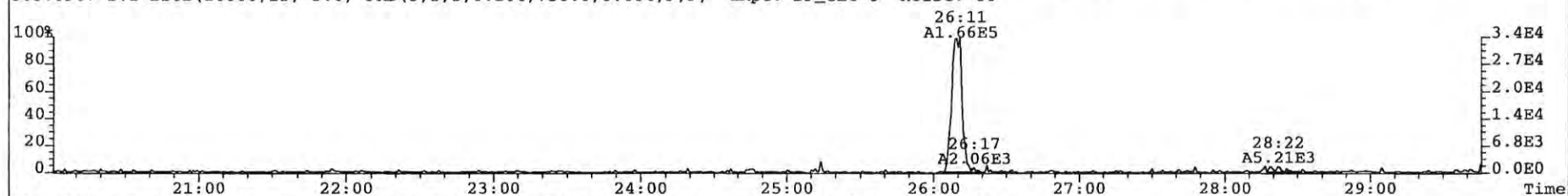
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5

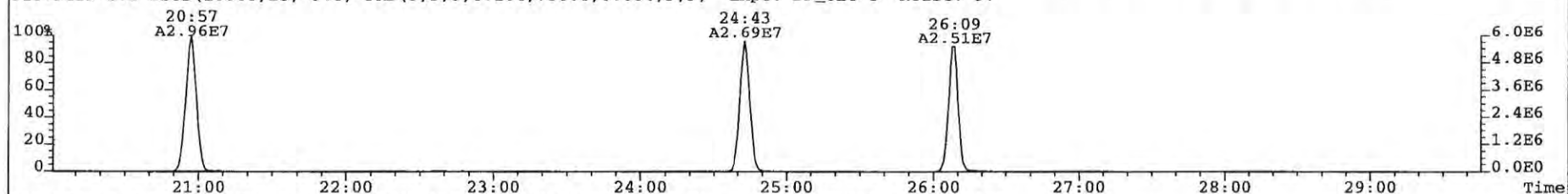
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 82



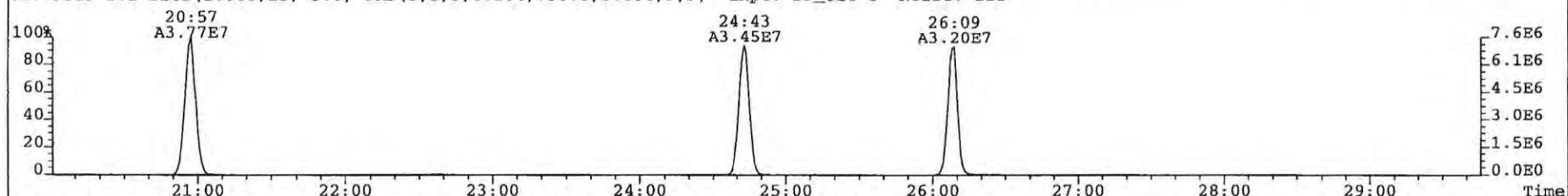
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 86



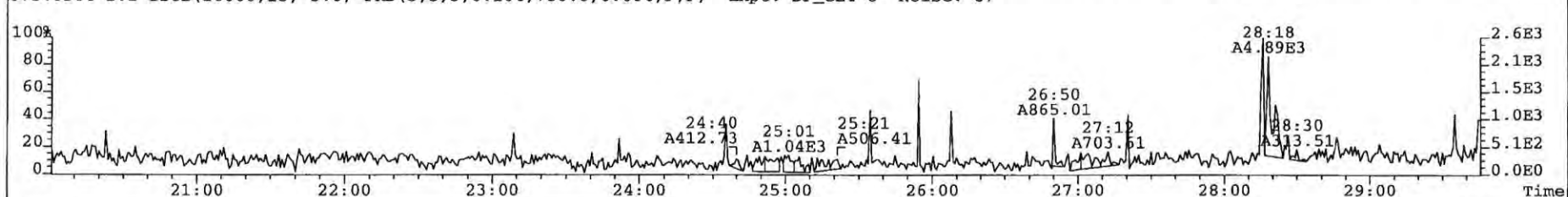
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 97



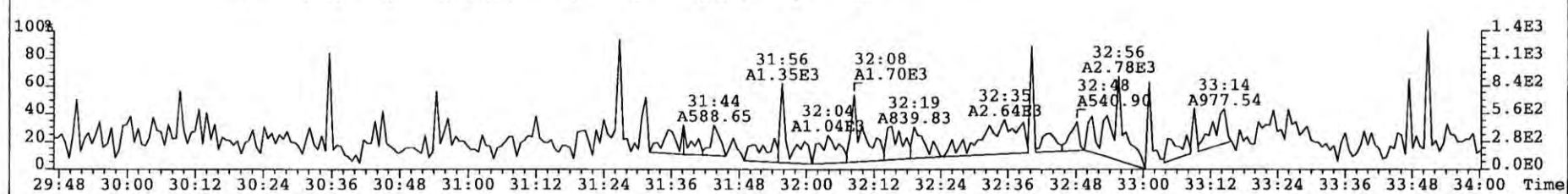
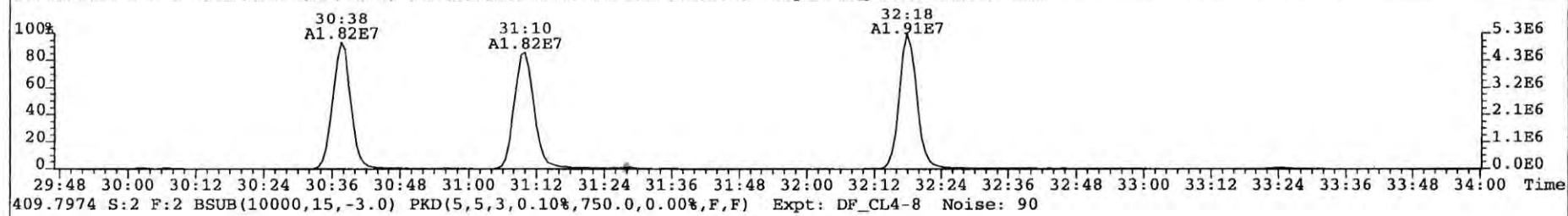
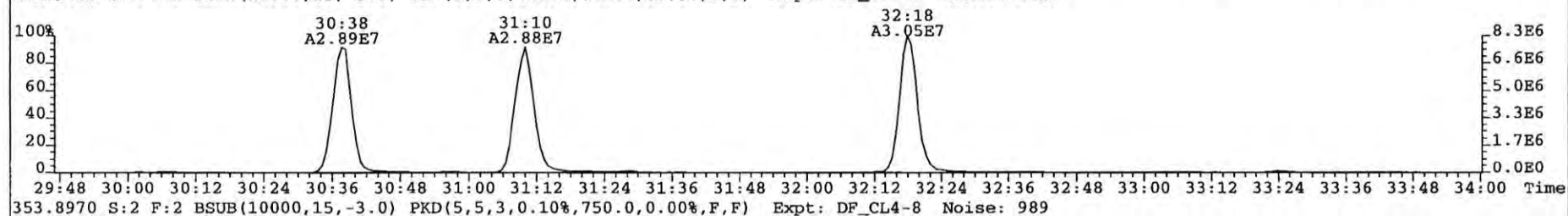
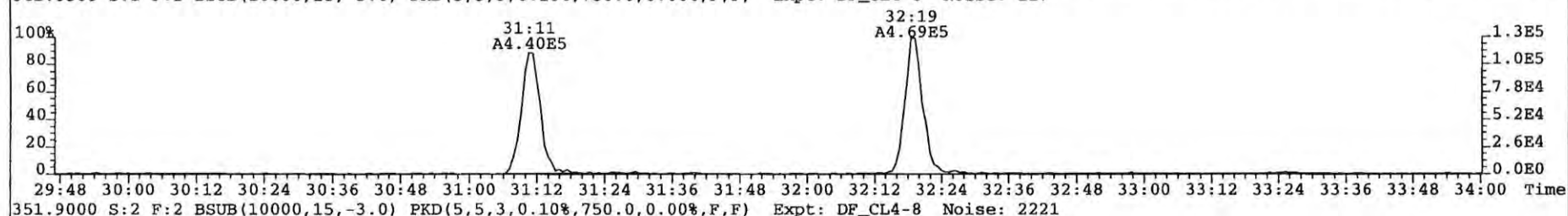
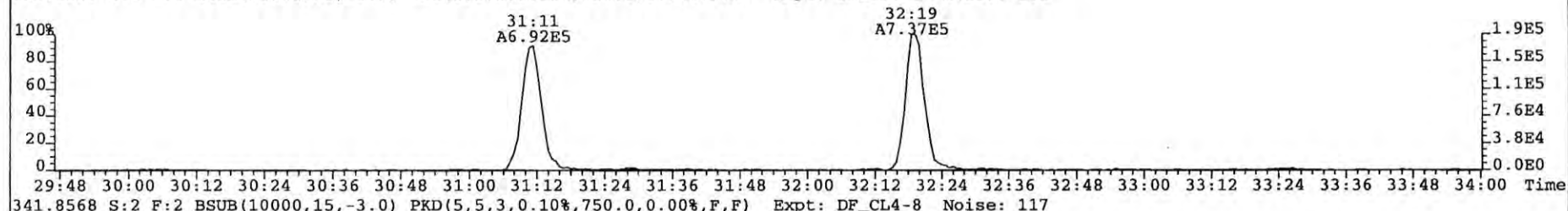
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 111



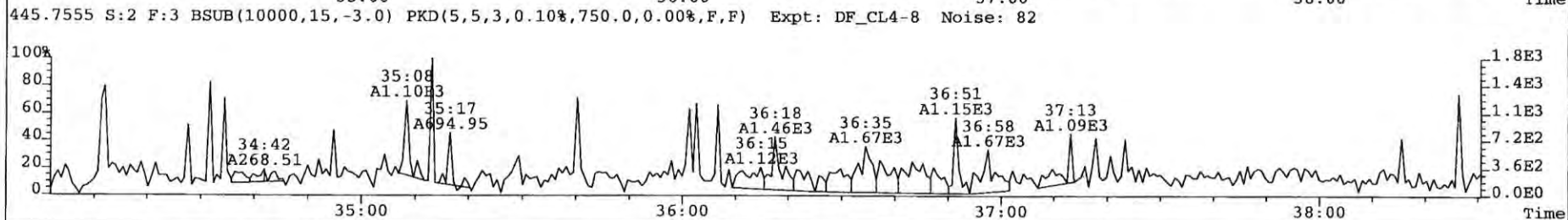
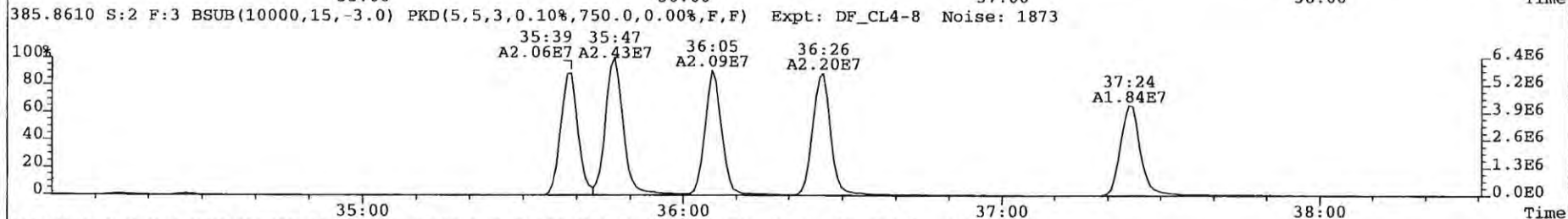
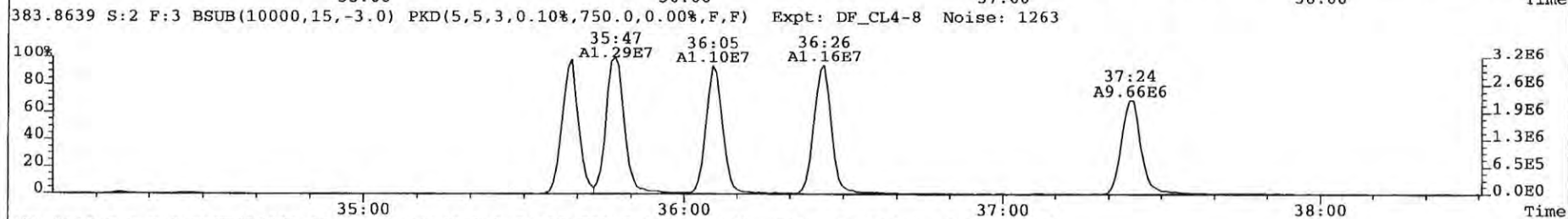
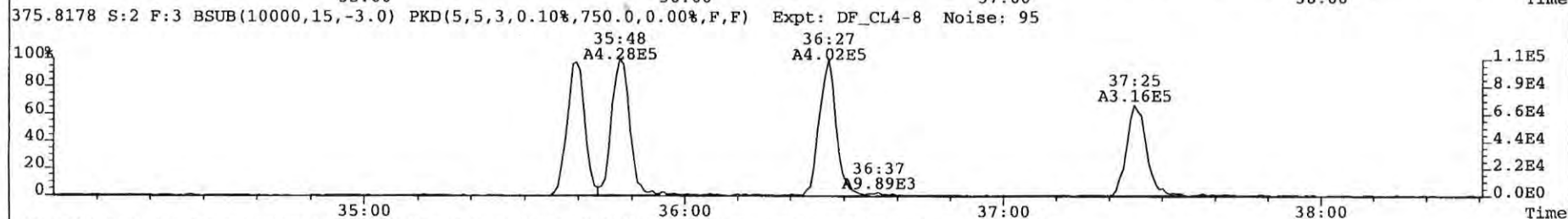
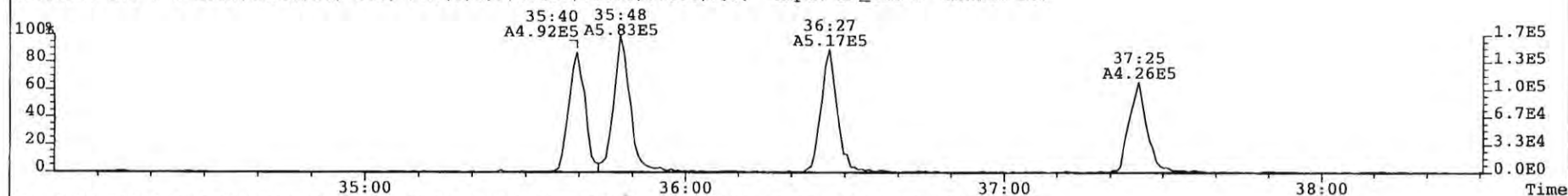
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 87



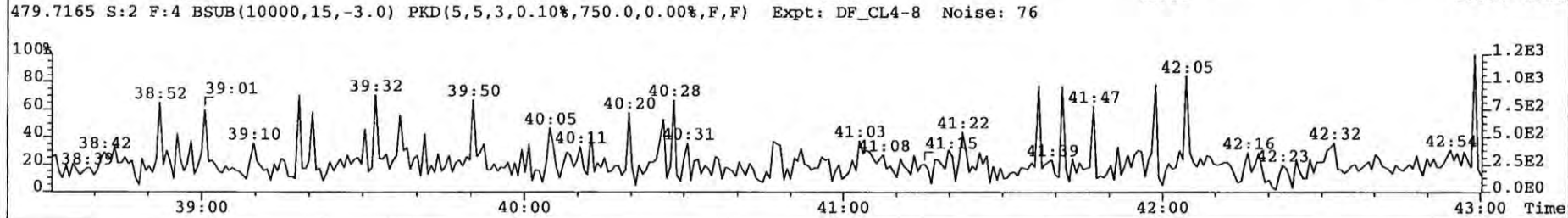
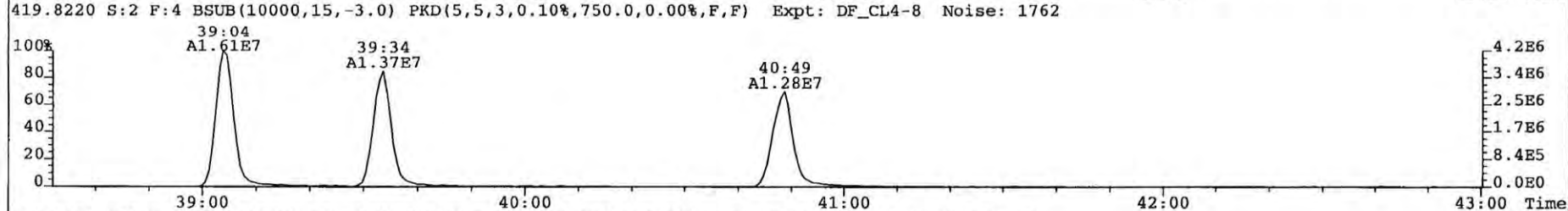
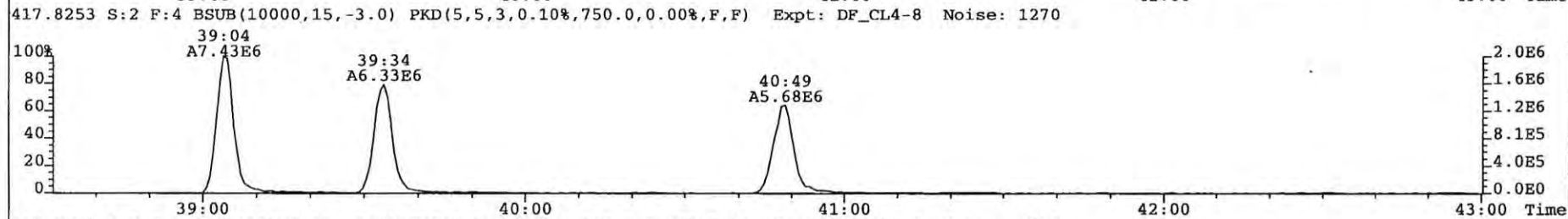
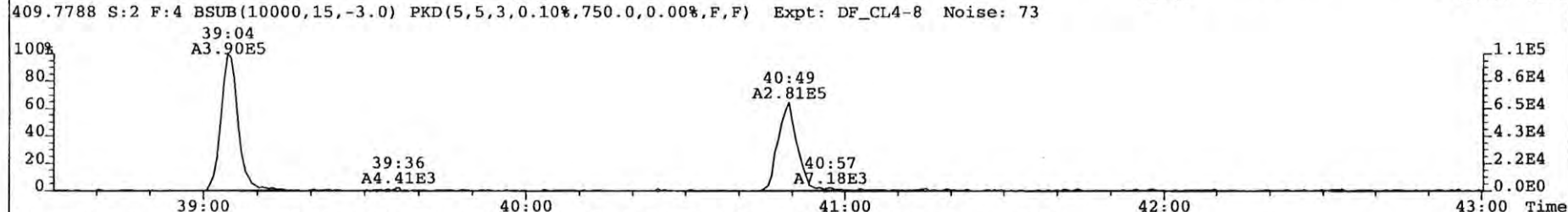
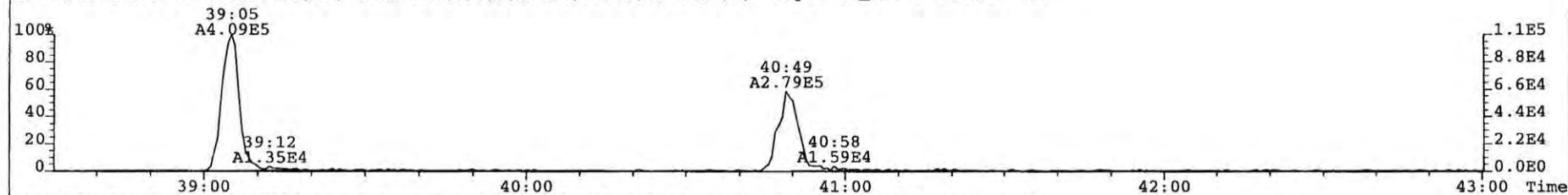
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 101



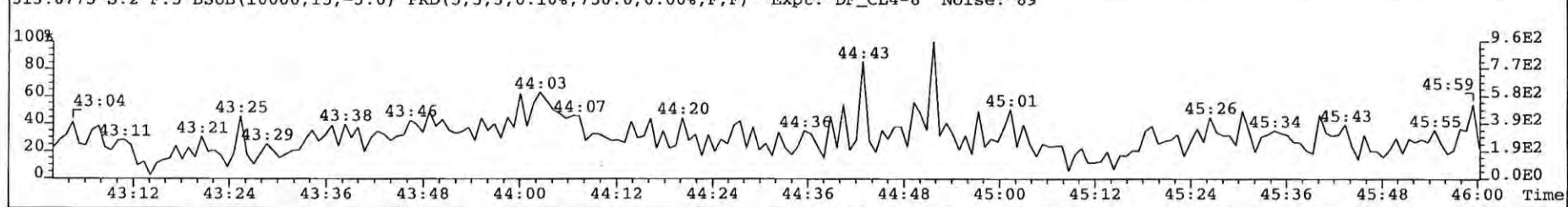
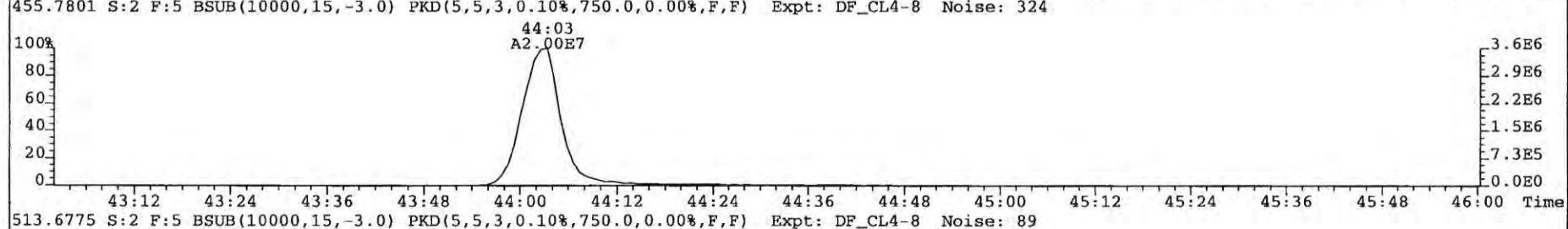
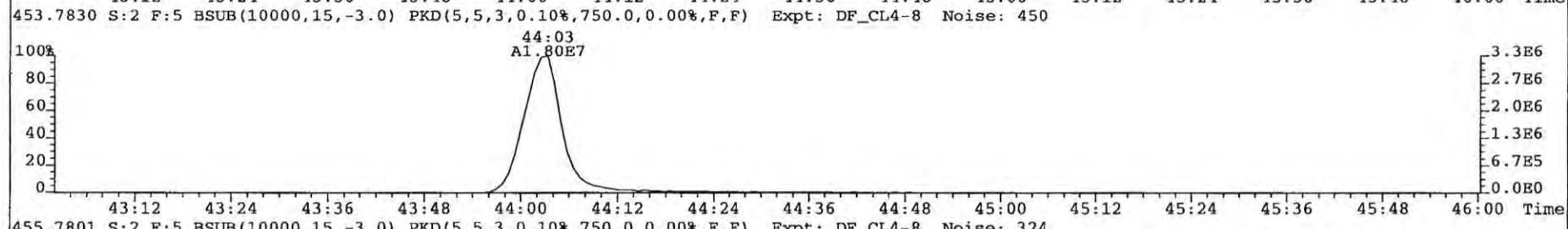
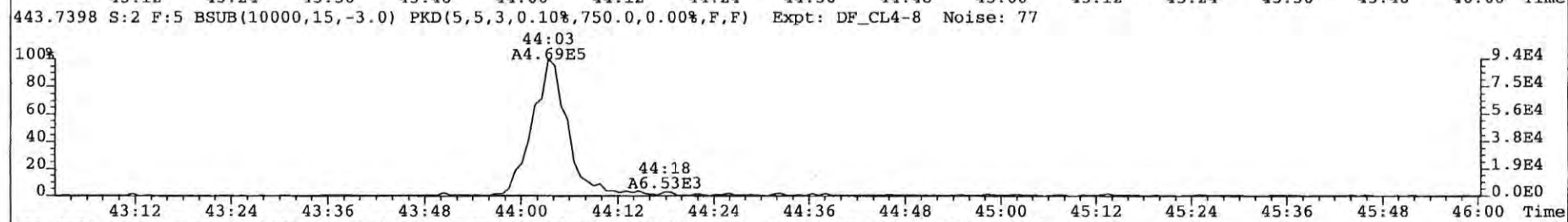
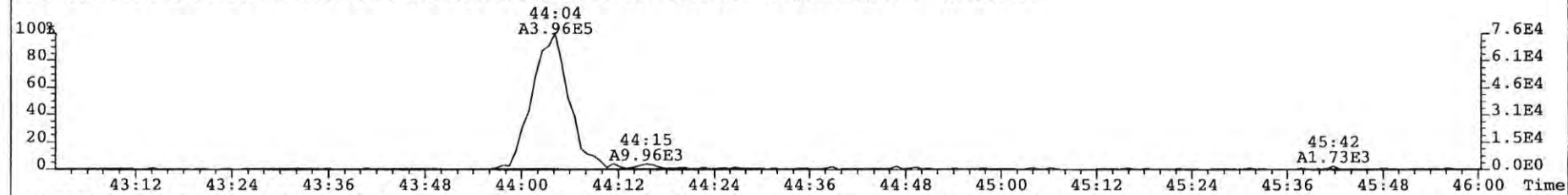
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
373.8207 S:2 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 187



File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 127



File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



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Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS2 ✓
 Lab ID: SIL7-26-1
 Sample text: SIL7-26-1 NEW ICAL CS2

Filename: 081225P1
 GC Column ID: db-5

S: 3 ✓ Acq: 25-DEC-08 11:52:35
 ICal: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 18

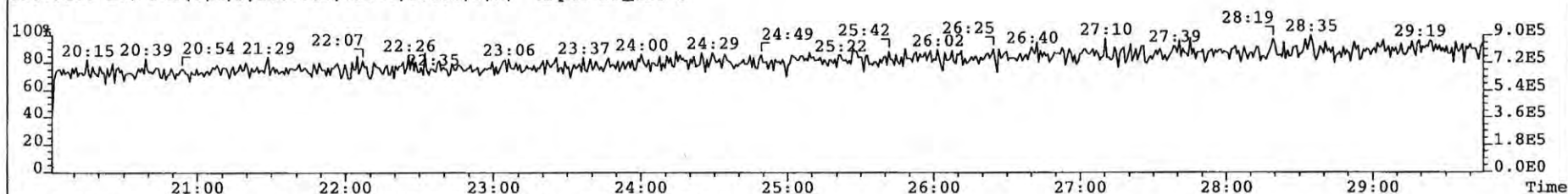
Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	2.00	6.34e+05	0.79 y	27:06	-	1.03 ✓
2	Ax 1,2,3,7,8-PeCDD	10.00	2.42e+06	1.62 y	32:41	-	0.96
3	Ax 1,2,3,4,7,8-HxCDD	10.00	2.18e+06	1.32 y	36:38	-	1.04
4	Ax 1,2,3,6,7,8-HxCDD	10.00	2.05e+06	1.25 y	36:45	-	0.93 ✓
5	Ax 1,2,3,7,8,9-HxCDD	10.00	2.19e+06	1.21 y	37:03	-	0.96
6	Ax 1,2,3,4,6,7,8-HpCDD	10.00	1.71e+06	1.07 y	40:15	-	0.92
7	Ax OCDD	20.00	2.48e+06	0.91 y	43:50	-	1.03 ✓
8	Ax2 OCDD-a	20.00	*	* n	NotF>	-	*
9	Ax 2,3,7,8-TCDF	2.00	9.40e+05	0.80 y	26:10	-	1.01 ✓
10	Ax 1,2,3,7,8-PeCDF	10.00	3.87e+06	1.57 y	31:11	-	0.94
11	Ax 2,3,4,7,8-PeCDF	10.00	4.19e+06	1.64 y	32:19	-	0.99 ✓ calc
12	Ax 1,2,3,4,7,8-HxCDF	10.00	3.30e+06	1.26 y	35:40	-	1.18
13	Ax 1,2,3,6,7,8-HxCDF	10.00	3.64e+06	1.24 y	35:48	-	1.12
14	Ax 2,3,4,6,7,8-HxCDF	10.00	3.36e+06	1.21 y	36:27	-	1.10 ✓
15	Ax 1,2,3,7,8,9-HxCDF	10.00	2.91e+06	1.30 y	37:26	-	1.08
16	Ax 1,2,3,4,6,7,8-HpCDF	10.00	2.89e+06	1.03 y	39:05	-	1.34
17	Ax 1,2,3,4,7,8,9-HpCDF	10.00	2.18e+06	1.08 y	40:50	-	1.28
18	Ax OCDF	20.00	3.32e+06	0.92 y	44:04	-	0.89 ✓
19	Ax2 OCDF-a	20.00	*	* n	NotF>	-	*
20	ES 13C-2,3,7,8-TCDD	100.00	3.07e+07	0.81 y	27:04	-	0.98 ✓
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.52e+07	1.64 y	32:40	-	0.80
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.08e+07	1.30 y	36:37	-	1.06
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.21e+07	1.27 y	36:44	-	1.13 ✓
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.28e+07	1.27 y	37:02	-	1.16
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	1.85e+07	1.06 y	40:15	-	0.94
26	ES 13C-OCDD	200.00	2.41e+07	0.85 y	43:49	-	0.62 ✓
27	ES 13C-2,3,7,8-TCDF	100.00	4.65e+07	0.81 y	26:08	-	0.94 ✓
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.11e+07	1.59 y	31:10	-	0.83
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.22e+07	1.56 y	32:18	-	0.85
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	2.79e+07	0.54 y	35:38	-	1.42 ✓
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.24e+07	0.53 y	35:47	-	1.65
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.06e+07	0.54 y	36:26	-	1.56
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.68e+07	0.55 y	37:25	-	1.37 ✓
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.17e+07	0.45 y	39:05	-	1.11
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.70e+07	0.44 y	40:49	-	0.87
36	ES 13C-OCDF	200.00	3.72e+07	0.91 y	44:03	-	0.95 ✓
37	CS 37C1-2,3,7,8-TCDD	2.00	5.88e+05		27:06	-	0.93 ✓
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.45e+07	1.68 y	32:09	-	0.78
39	CS 13C-1,2,3,4,6-PeCDF	100.00	3.99e+07	1.58 y	30:38	-	0.80 ✓
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	2.79e+07	0.54 y	36:06	-	1.43 ✓
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	1.86e+07	0.46 y	39:34	-	0.95 ✓
42	NA n/a	100.00	*	* n	NotF>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.15e+07	0.81 y	26:24	3.15e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	4.96e+07	0.79 y	24:42	4.96e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	9.80e+06	1.31 y	36:56	1.96e+05	-

2.0 pg/ml

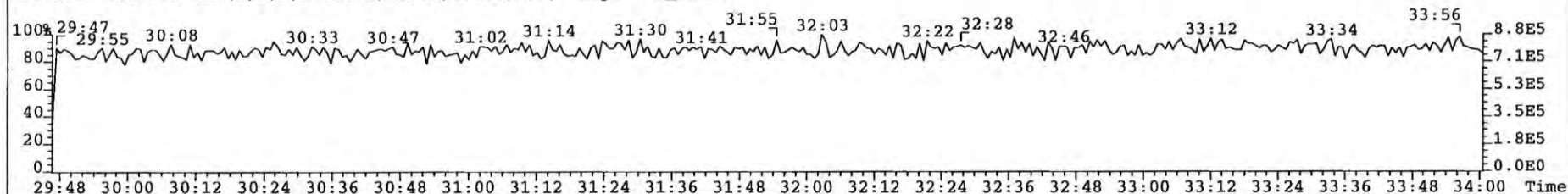
Analyst: *[Signature]*
 Date: *27 Dec 08*

46	SS	37Cl-2,3,7,8-TCDD	2.00	5.88e+05		27:06	-	0.96 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.45e+07	1.68 y	32:09	-	0.97
48	SS	13C-1,2,3,4,6-PeCDF	100.00	3.99e+07	1.58 y	30:38	-	0.97 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	2.79e+07	0.54 y	36:06	-	0.86
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.86e+07	0.46 y	39:34	-	0.86 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.01 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.03 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.03
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.03
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	0.96
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	0.96
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	0.98 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.92
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.01
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.01
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.01
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.01
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	0.97 ✓
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.12 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.03
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	0.96
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	0.98
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.92
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.01
70	Tot	Total Penta-Furans	-	-	- n	-	-	0.97
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.12
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.31
73	Tot	TCDD EMPC	-	-	- n	-	-	1.03
74	Tot	PeCDD EMPC	-	-	- n	-	-	0.96
75	Tot	HxCDD EMPC	-	-	- n	-	-	0.98
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.92
77	Tot	TCDF EMPC	-	-	- n	-	-	1.01
78	Tot	PeCDF EMPC	-	-	- n	-	-	0.97
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.12
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.31
81	AS	13C-1,3,6,8-TCDD	100.00	3.29e+07	0.81 y	23:08	-	1.04 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	5.25e+07	0.79 y	20:57	-	1.06 ✓
83	DPE	HxCDPE	-	3.70e+03		23:42	-	-
84	DPE	HpCDPE	-	1.56e+03		30:47	-	-
85	DPE	OCdPE	-	9.51e+03		35:09	-	-
86	DPE	NCDPE	-	1.34e+04		40:20	-	-
87	DPE	DCDPE	-	*		NotF>	-	-
88	LMC	Fn1 check mass	-	*		NotF>	-	-
89	LMC	Fn2 check mass	-	*		NotF>	-	-
90	LMC	Fn3 check mass	-	*		NotF>	-	-
91	LMC	Fn4 check mass	-	*		NotF>	-	-
92	LMC	Fn5 check mass	-	*		NotF>	-	-

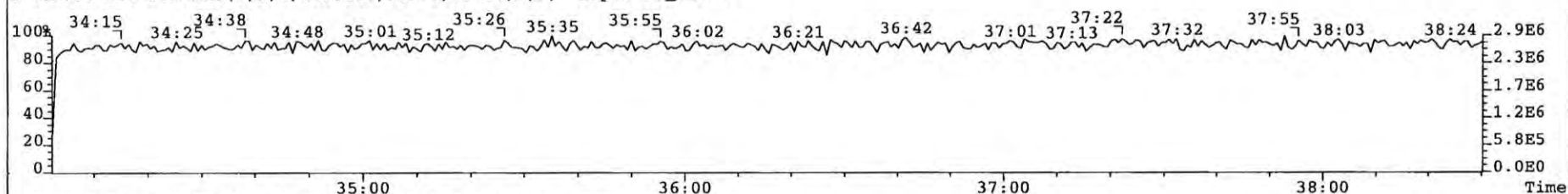
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



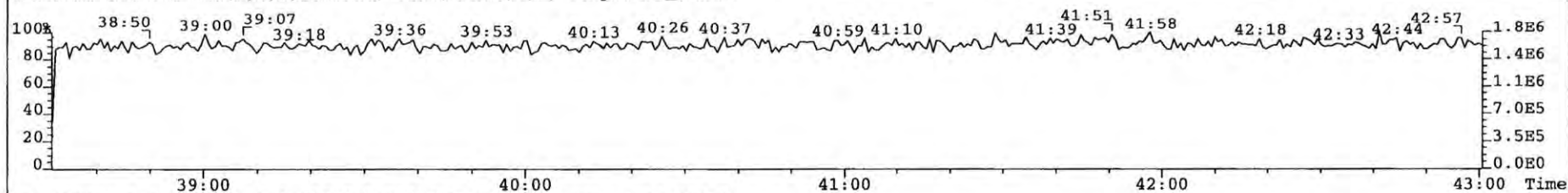
366.9792 S:3 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



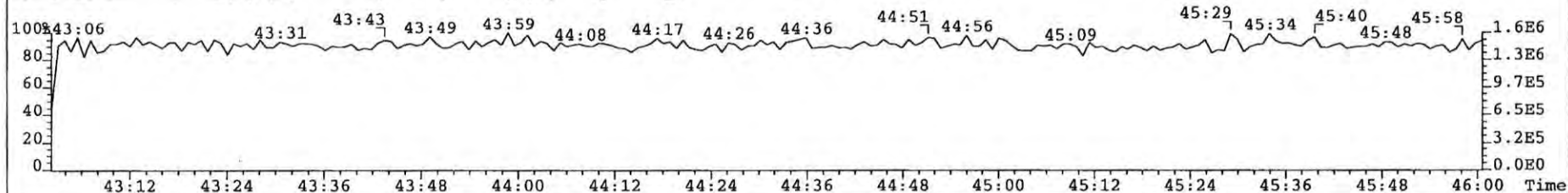
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



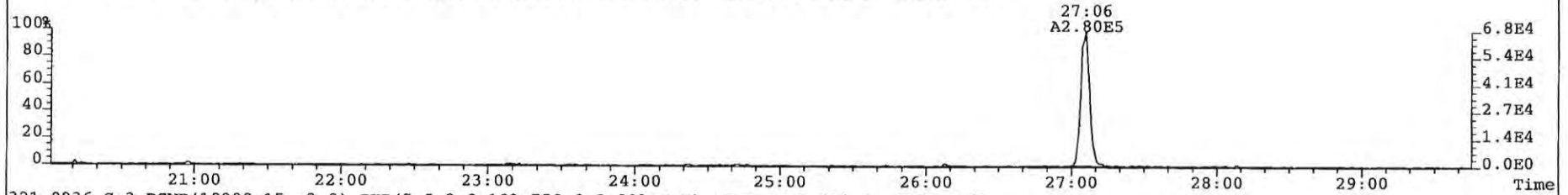
430.9728 S:3 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



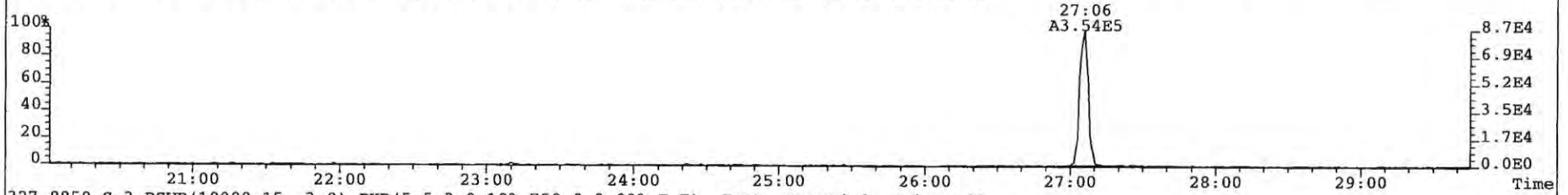
454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



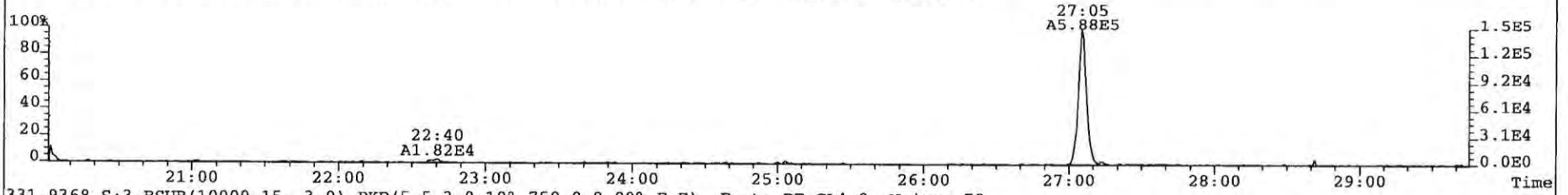
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 66



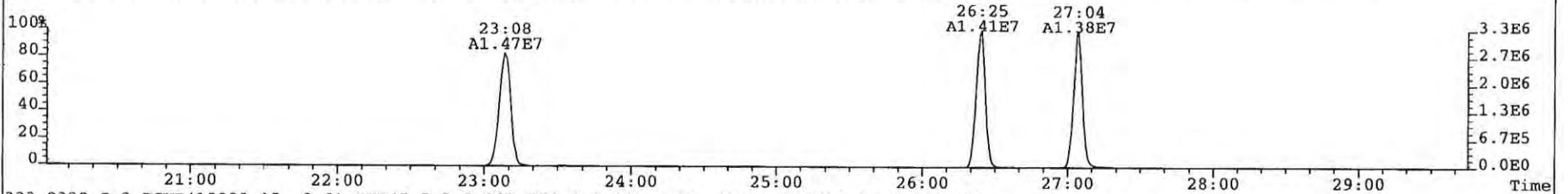
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 65



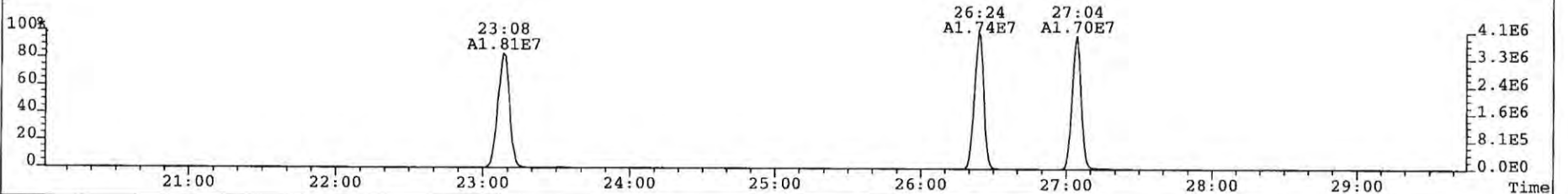
327.8850 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78



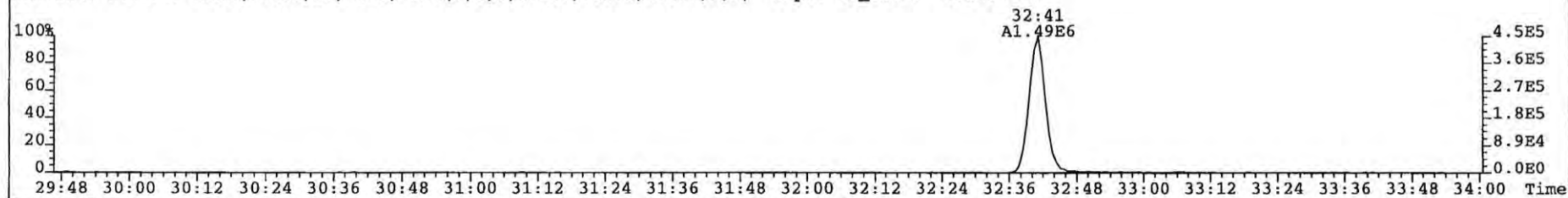
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



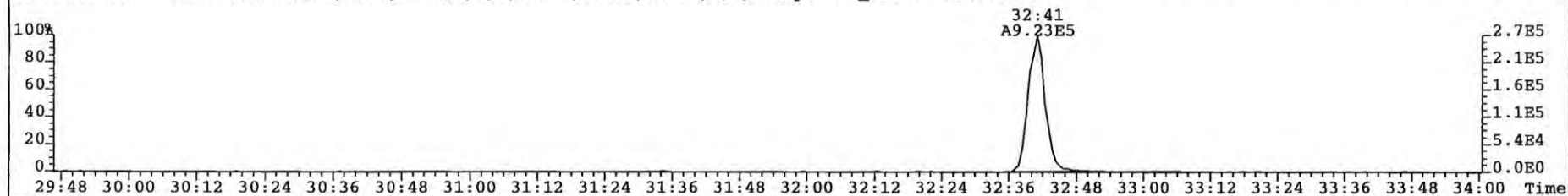
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

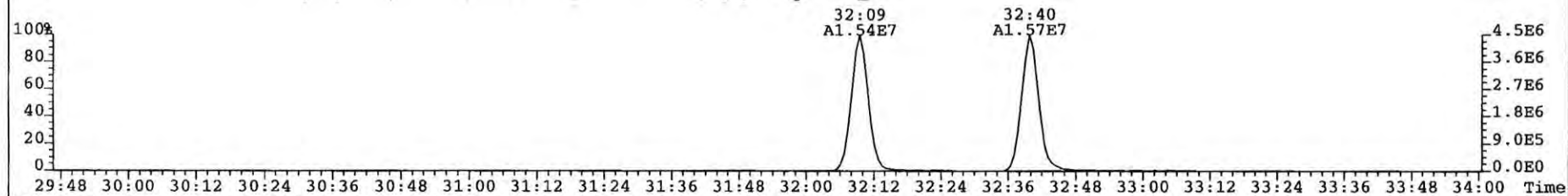
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 76



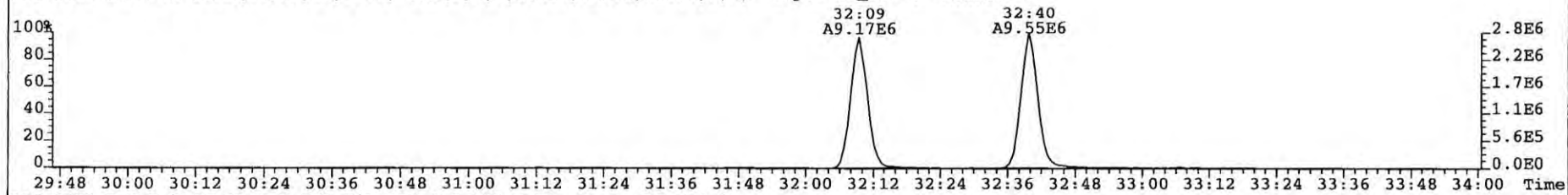
357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 82



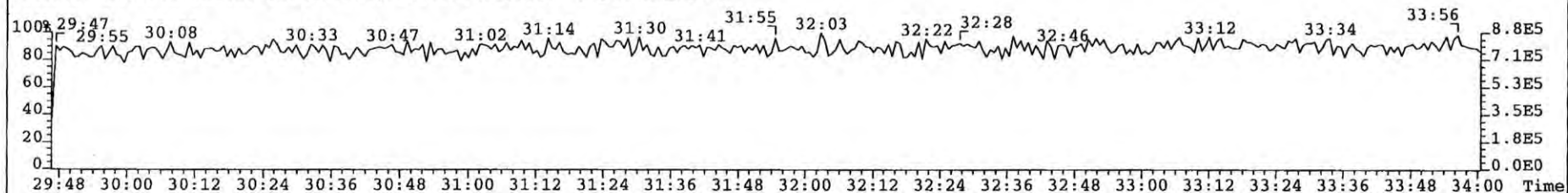
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 85



369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



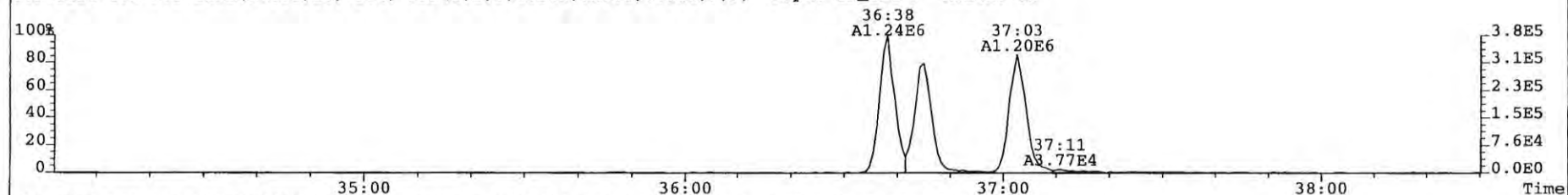
366.9792 S:3 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



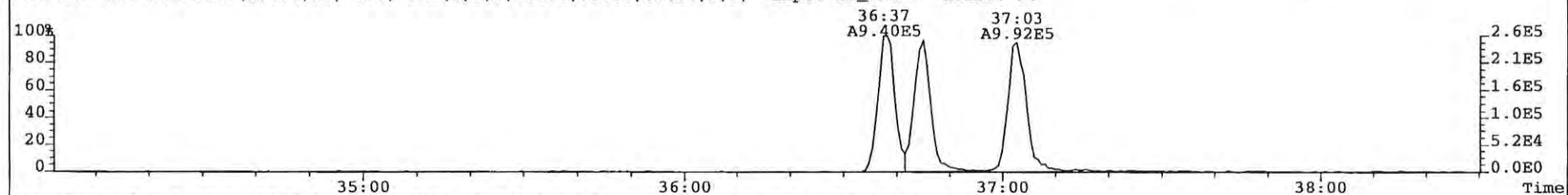
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

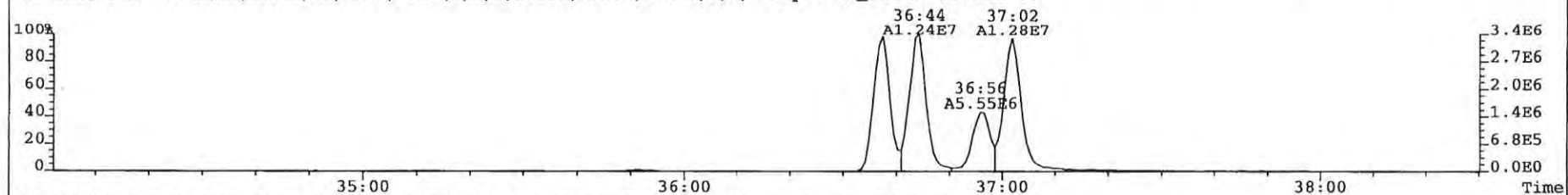
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



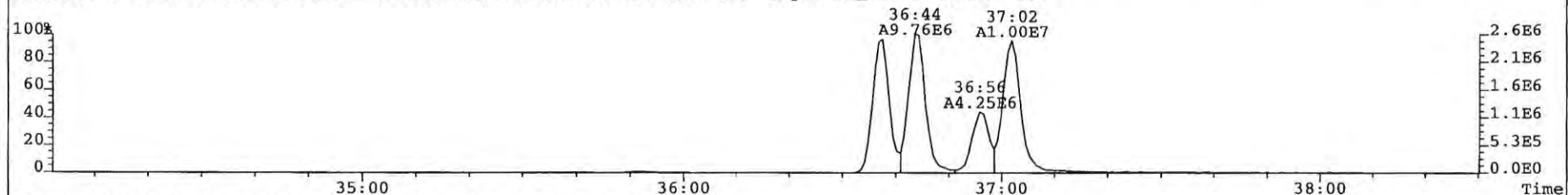
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 90



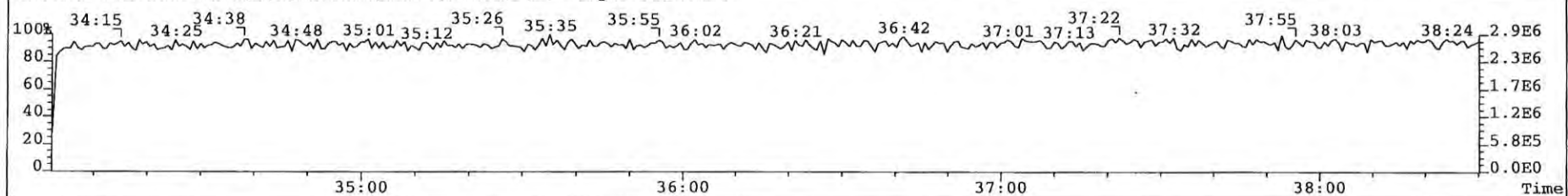
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 93



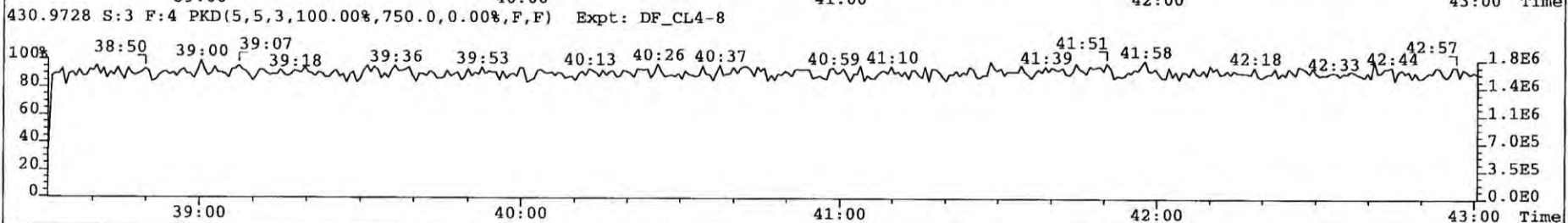
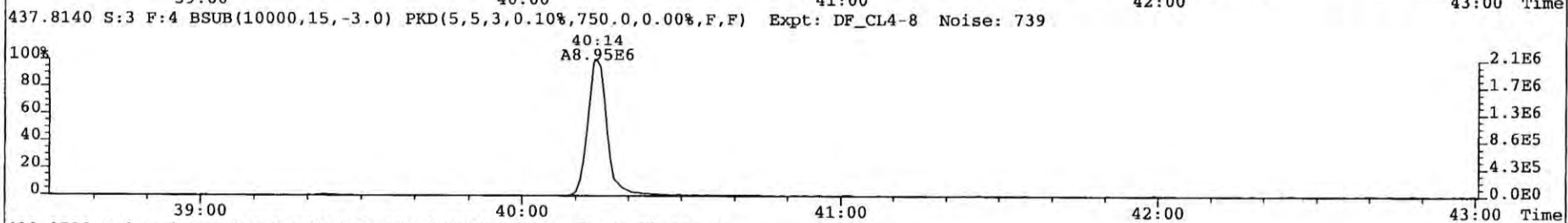
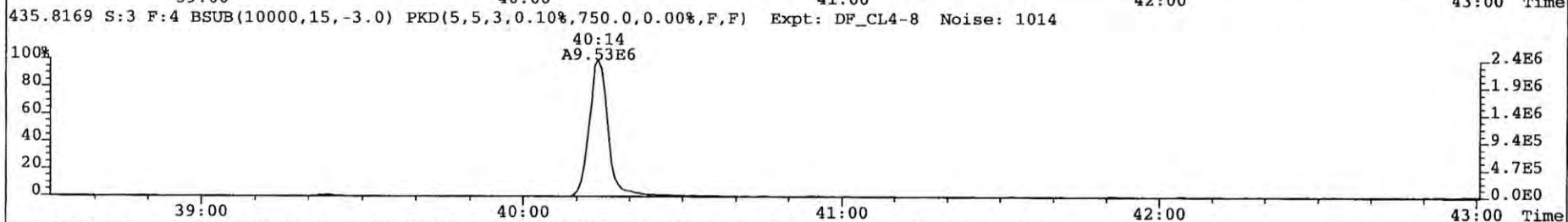
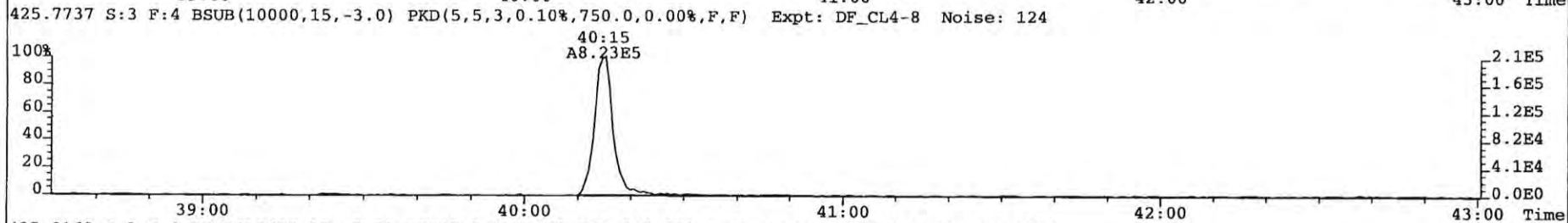
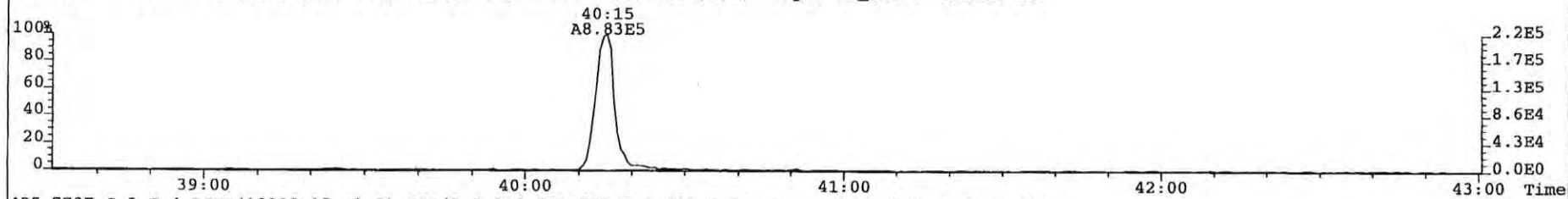
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 101



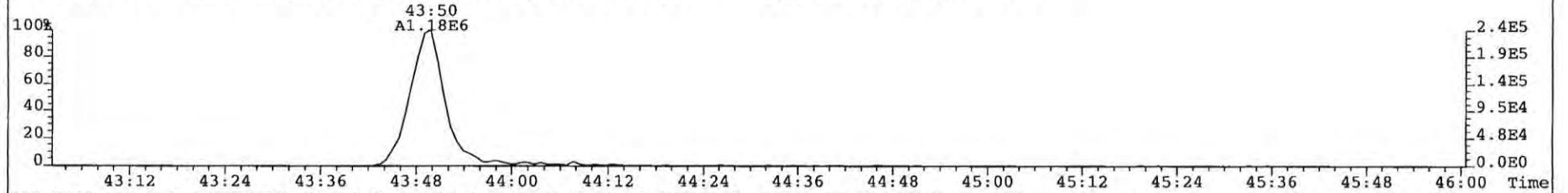
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



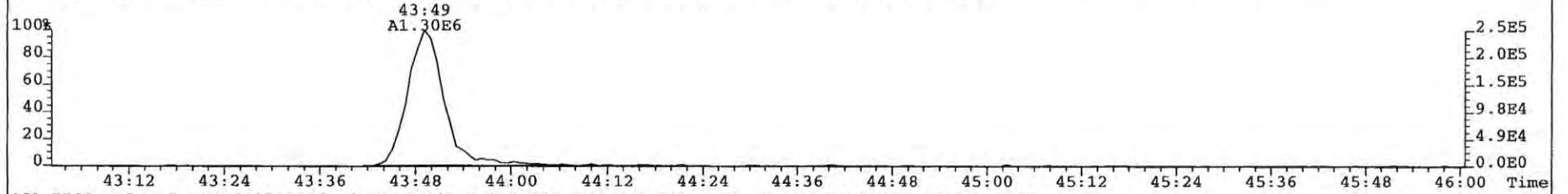
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 207



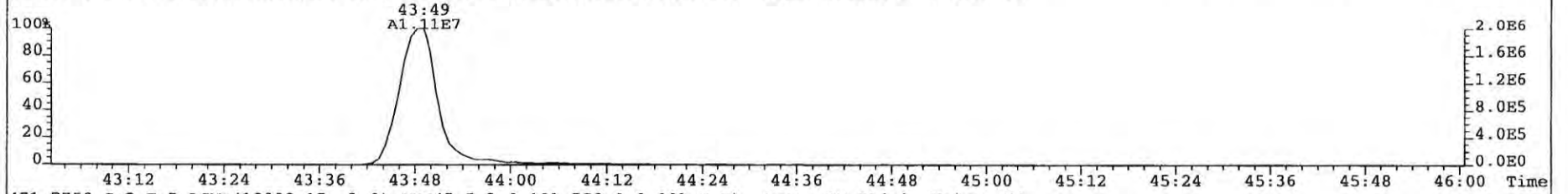
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 68



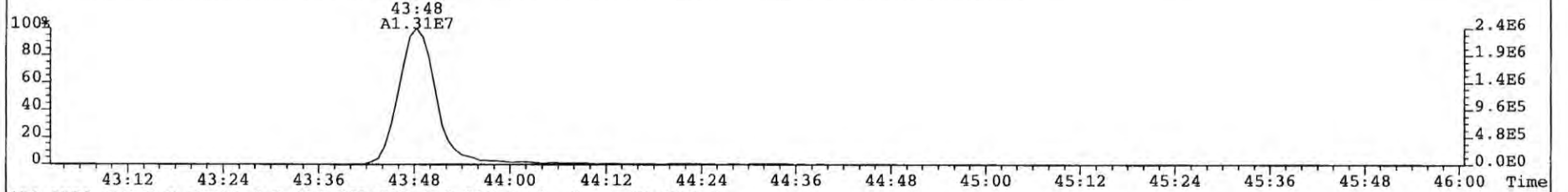
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 81



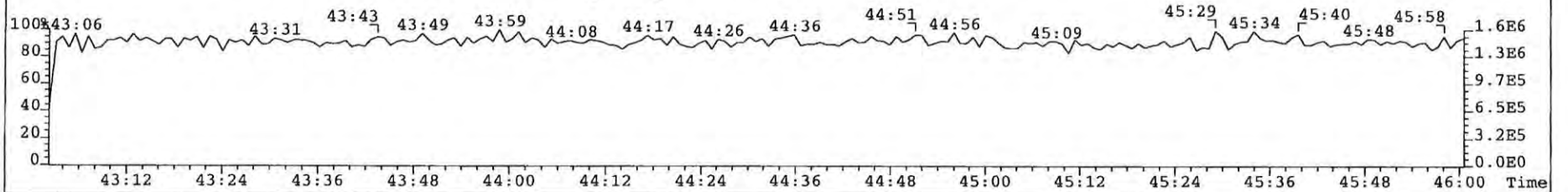
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 282



471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 76



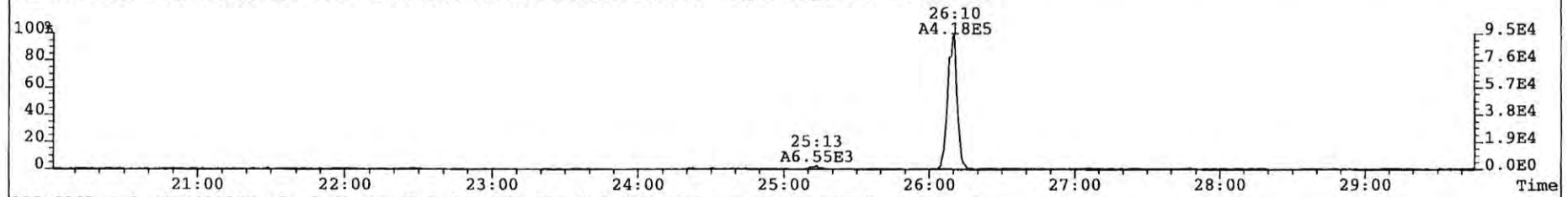
454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



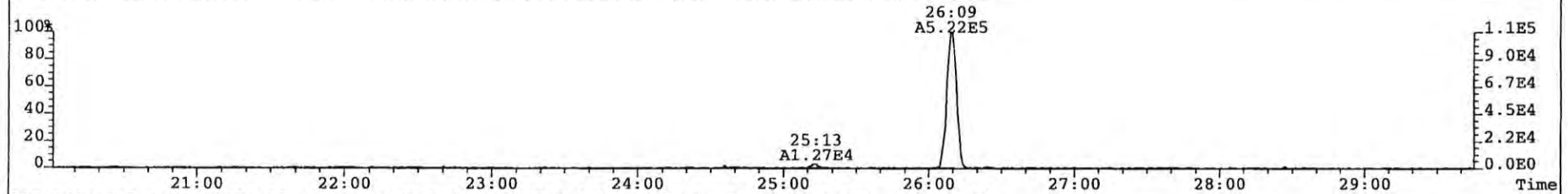
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

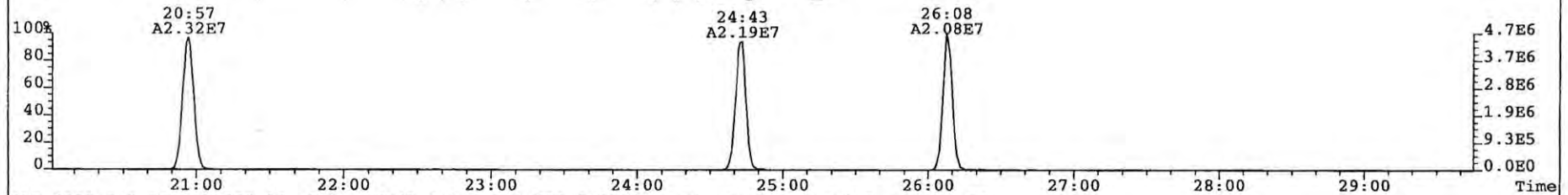
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 69



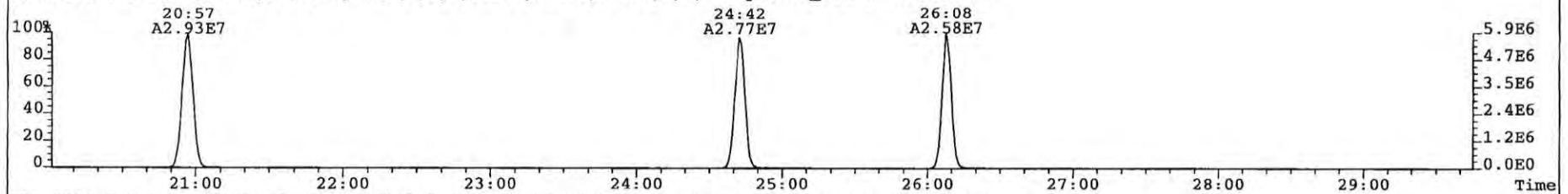
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 68



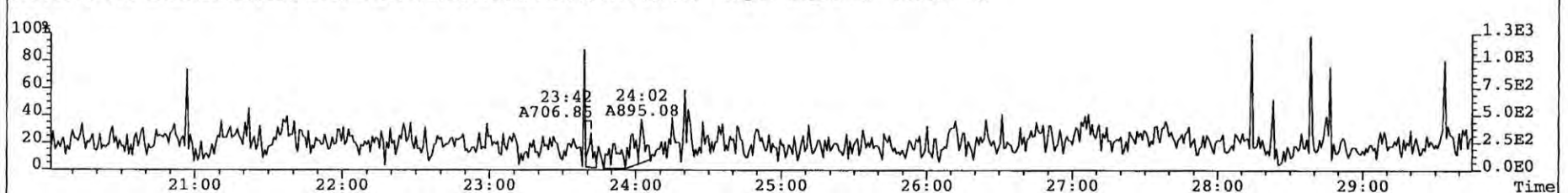
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 86



317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 73



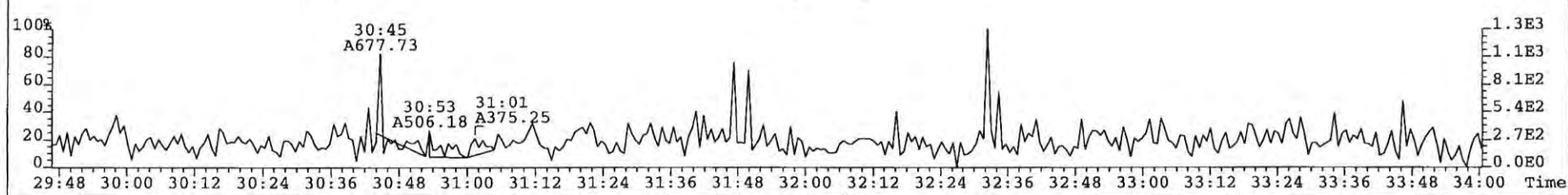
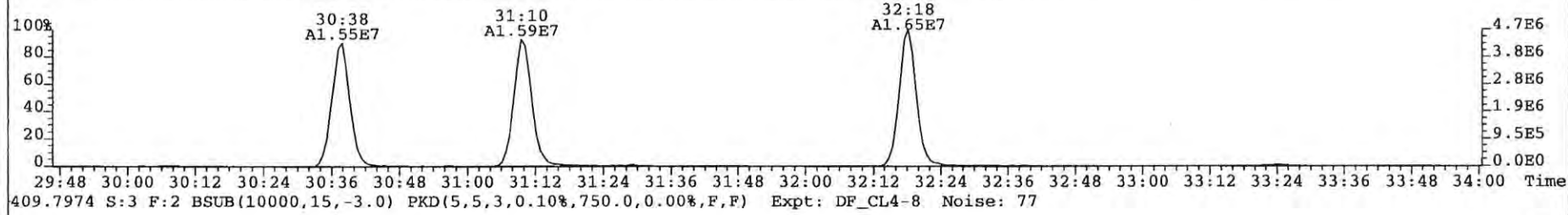
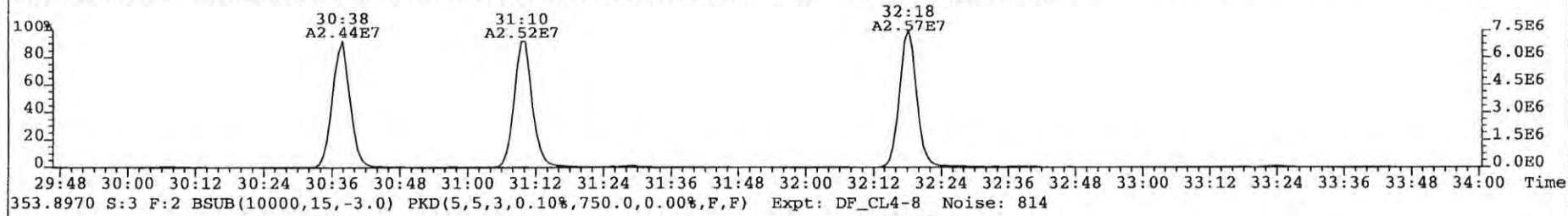
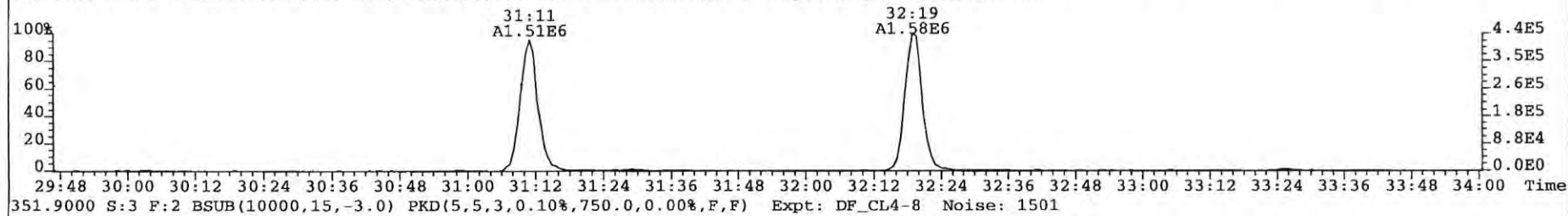
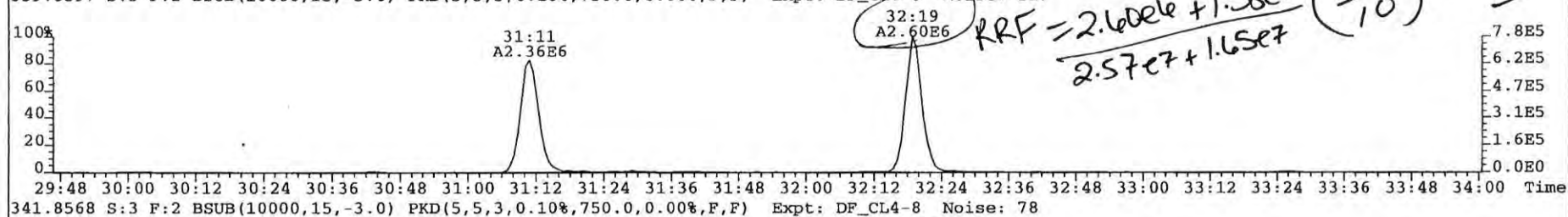
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 79



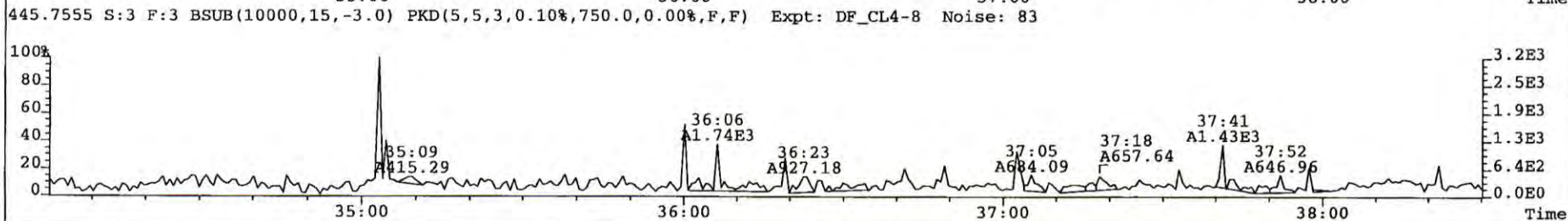
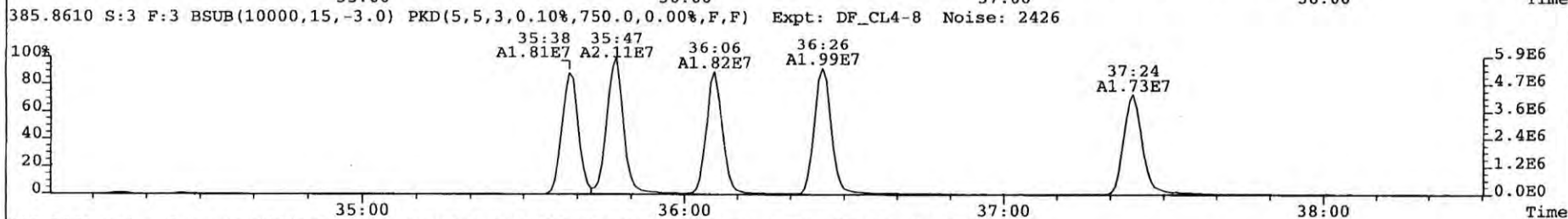
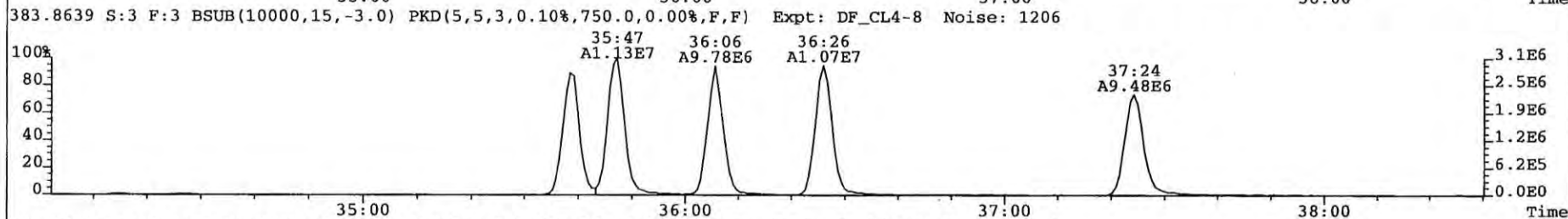
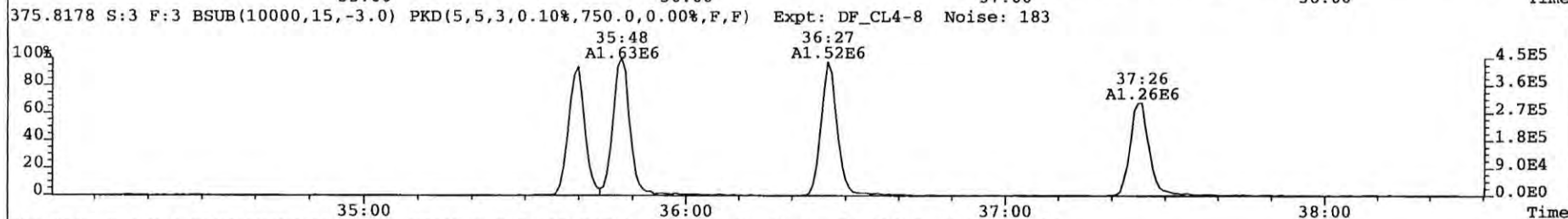
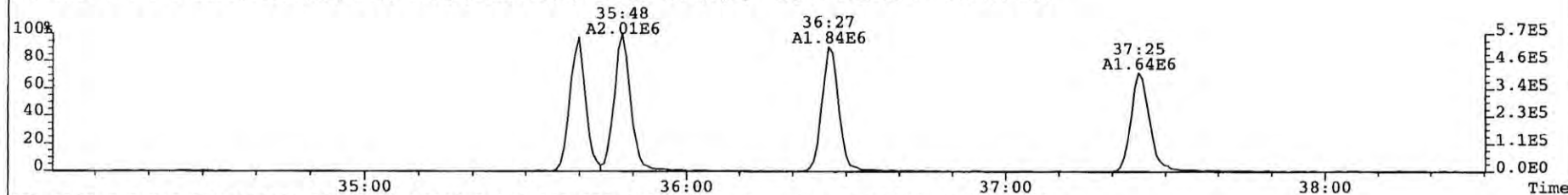
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

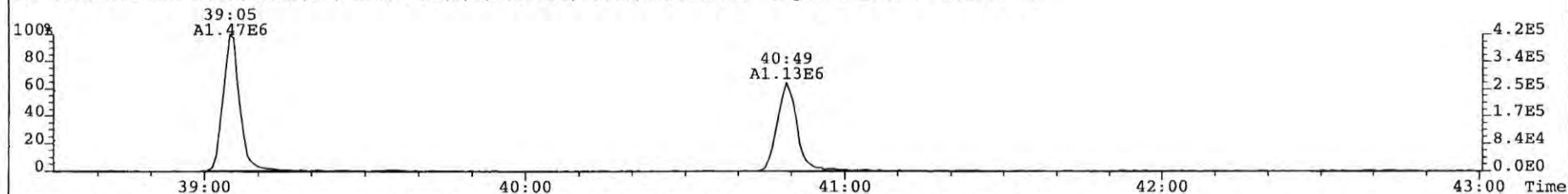
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 217



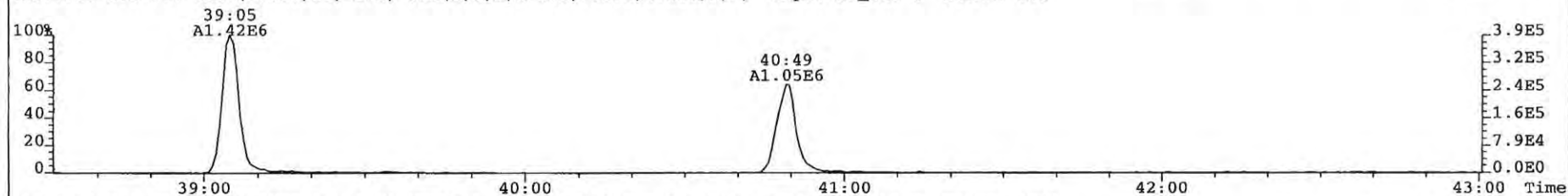
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 280



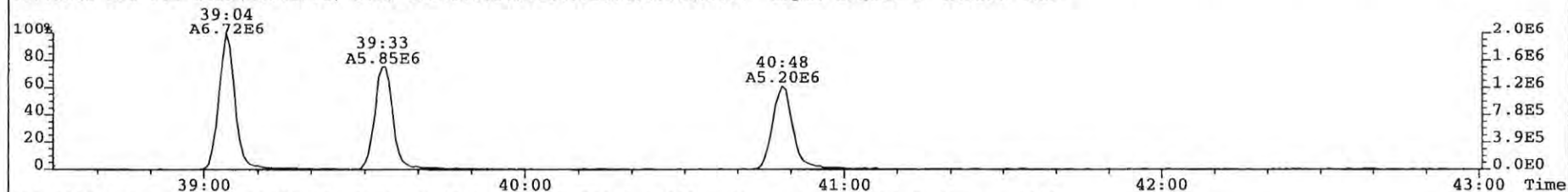
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 232



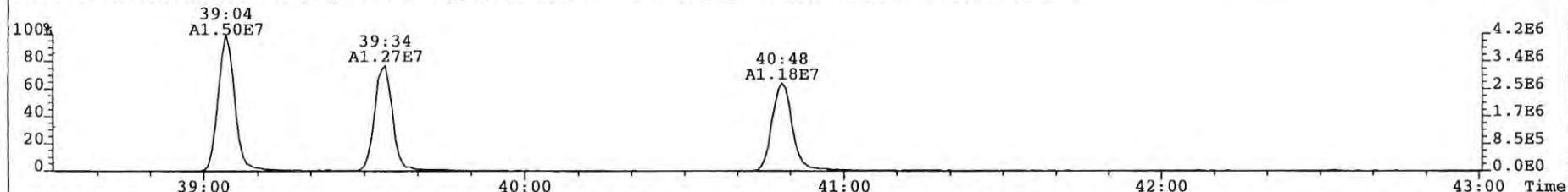
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 176



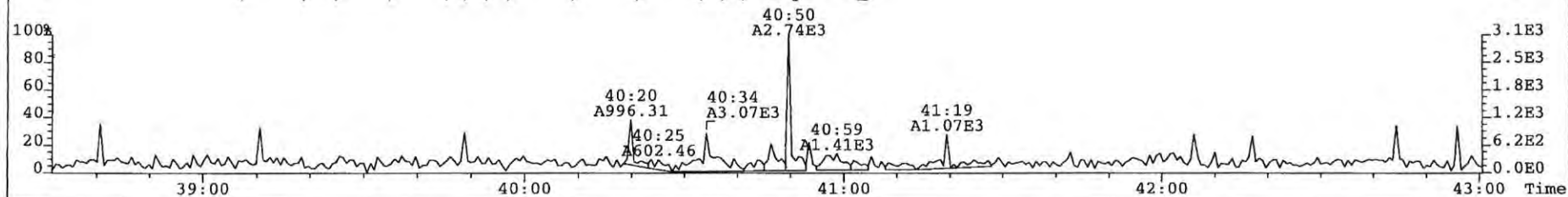
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1021



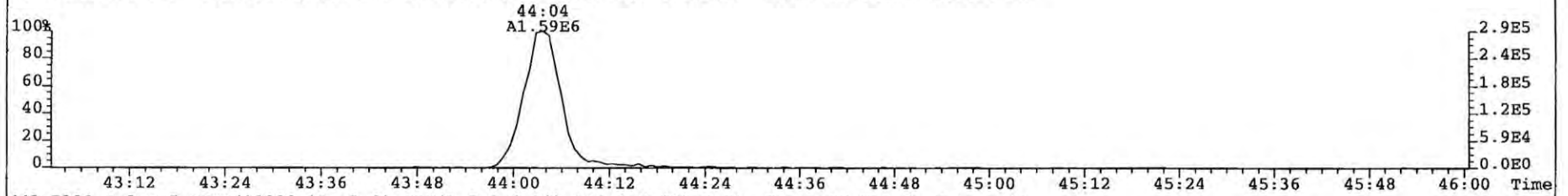
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1812



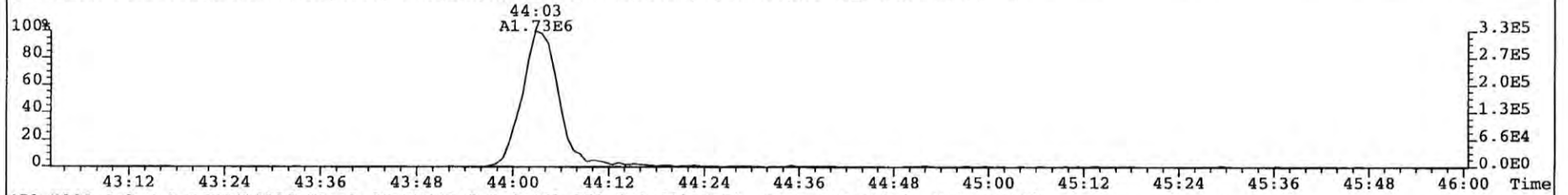
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 75



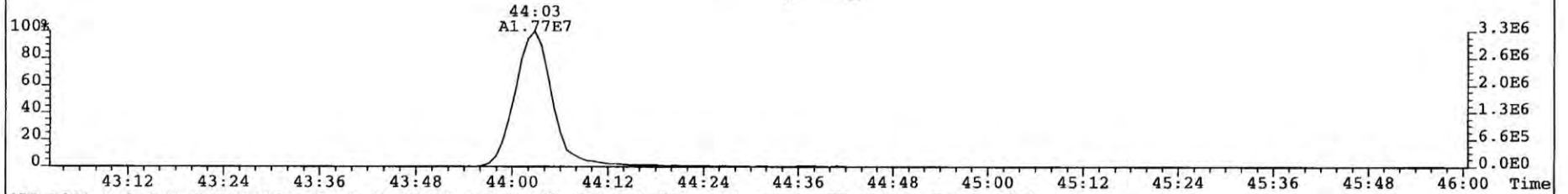
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 71



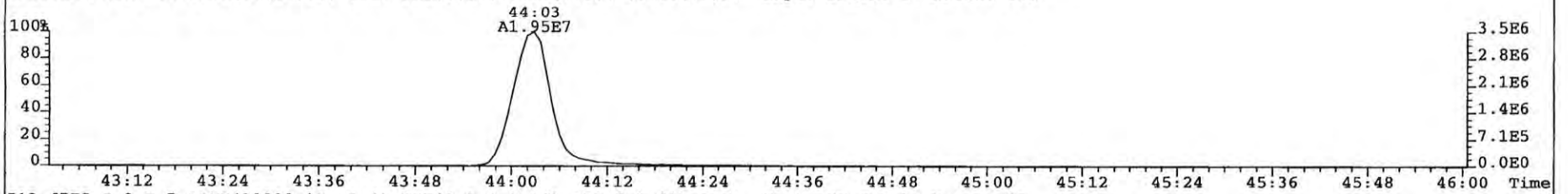
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 85



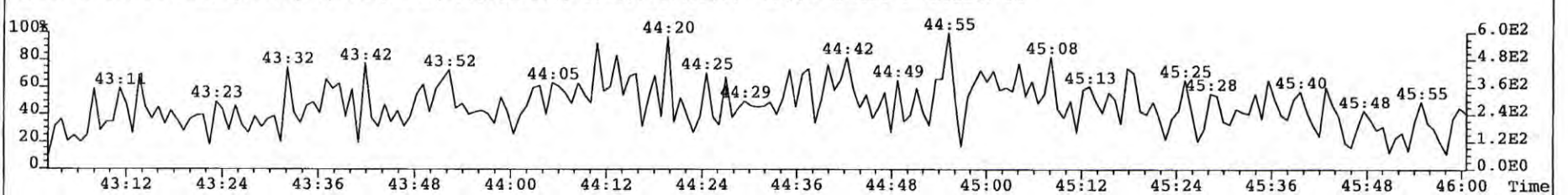
453.7830 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 506



455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 429



513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 90



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS3 ✓
 Lab ID: SIL7-25-4
 Sample text: SIL7-25-4 NEW ICAL CS3

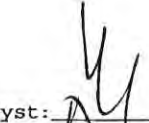
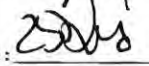
Filename: 081225P1 S: 4 ✓ Acq: 25-DEC-08 12:42:45
 GC Column ID: db-5 ICAL: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 19

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	10.00	3.70e+06	0.77 y	27:06	-	1.08 ✓
2	Ax 1,2,3,7,8-PeCDD	50.00	1.36e+07	1.63 y	32:41	-	1.01
3	Ax 1,2,3,4,7,8-HxCDD	50.00	1.20e+07	1.26 y	36:38	-	1.11
4	Ax 1,2,3,6,7,8-HxCDD	50.00	1.19e+07	1.26 y	36:45	-	0.96 ✓
5	Ax 1,2,3,7,8,9-HxCDD	50.00	1.25e+07	1.26 y	37:03	-	1.02
6	Ax 1,2,3,4,6,7,8-HpCDD	50.00	9.64e+06	1.06 y	40:15	-	0.96
7	Ax OCDD	100.00	1.36e+07	0.87 y	43:49	-	1.04 ✓ calc.
8	Ax2 OCDD-a	100.00	7.50e+05	2.85 y	43:49	-	0.06
9	Ax 2,3,7,8-TCDF	10.00	5.40e+06	0.78 y	26:09	-	1.05 ✓
10	Ax 1,2,3,7,8-PeCDF	50.00	2.20e+07	1.59 y	31:11	-	0.98
11	Ax 2,3,4,7,8-PeCDF	50.00	2.35e+07	1.57 y	32:19	-	1.03
12	Ax 1,2,3,4,7,8-HxCDF	50.00	1.85e+07	1.26 y	35:40	-	1.23 ✓
13	Ax 1,2,3,6,7,8-HxCDF	50.00	2.09e+07	1.25 y	35:48	-	1.17
14	Ax 2,3,4,6,7,8-HxCDF	50.00	1.89e+07	1.27 y	36:27	-	1.13
15	Ax 1,2,3,7,8,9-HxCDF	50.00	1.63e+07	1.25 y	37:26	-	1.13 ✓
16	Ax 1,2,3,4,6,7,8-HpCDF	50.00	1.62e+07	1.04 y	39:05	-	1.37
17	Ax 1,2,3,4,7,8,9-HpCDF	50.00	1.24e+07	1.04 y	40:50	-	1.37
18	Ax OCDF	100.00	1.91e+07	0.93 y	44:04	-	0.94 ✓
19	Ax2 OCDF-a	100.00	9.58e+05	2.92 n	44:04	-	0.05
20	ES 13C-2,3,7,8-TCDD	100.00	3.42e+07	0.81 y	27:04	-	0.98 ✓
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.70e+07	1.61 y	32:40	-	0.77
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.18e+07	1.29 y	36:37	-	1.01
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.49e+07	1.28 y	36:44	-	1.15 ✓
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.44e+07	1.28 y	37:02	-	1.13
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.00e+07	1.10 y	40:15	-	0.93 ✓ calc.
26	ES 13C-OCDD	200.00	2.61e+07	0.86 y	43:49	-	0.60
27	ES 13C-2,3,7,8-TCDF	100.00	5.24e+07	0.80 y	26:08	-	0.95 ✓
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.49e+07	1.58 y	31:10	-	0.81
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.59e+07	1.58 y	32:18	-	0.83
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.01e+07	0.54 y	35:39	-	1.39 ✓
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.56e+07	0.54 y	35:47	-	1.65
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.34e+07	0.54 y	36:26	-	1.55
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.87e+07	0.55 y	37:25	-	1.33
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.36e+07	0.45 y	39:04	-	1.09
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.82e+07	0.47 y	40:49	-	0.84
36	ES 13C-OCDF	200.00	4.06e+07	0.92 y	44:03	-	0.94 ✓
37	CS 37Cl-2,3,7,8-TCDD	10.00	3.40e+06		27:06	-	0.97 ✓
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.57e+07	1.65 y	32:09	-	0.74
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.27e+07	1.56 y	30:37	-	0.77
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	2.92e+07	0.54 y	36:06	-	1.35 ✓
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	1.83e+07	0.45 y	39:34	-	0.85 ✓
42	NA n/a	100.00	*	* n	NotF»	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.50e+07	0.83 y	26:24	3.50e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	5.53e+07	0.78 y	24:42	5.53e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.08e+07	1.27 y	36:56	2.16e+05	-

10pg/ml

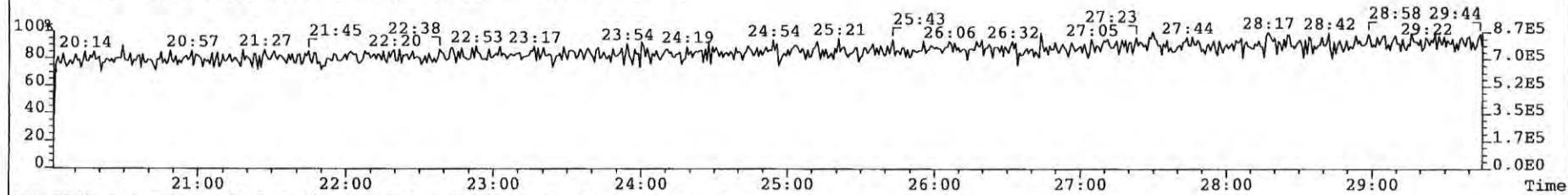
calc.

calc.

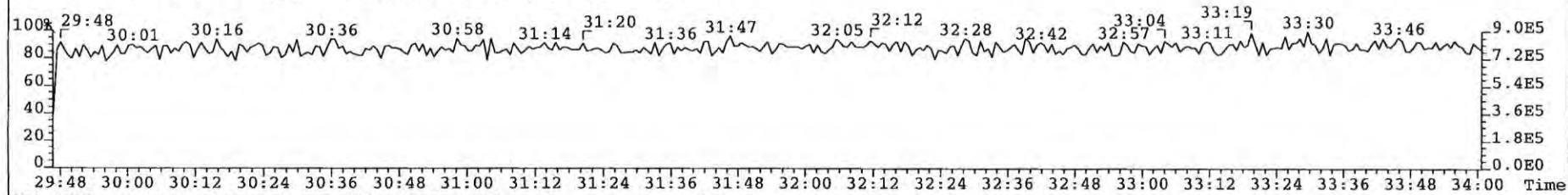
Analyst: 
 Date: 

46	SS	37Cl-2,3,7,8-TCDD	10.00	3.40e+06		27:06	-	1.00 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.57e+07	1.65 y	32:09	-	0.95
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.27e+07	1.56 y	30:37	-	0.95 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	2.92e+07	0.54 y	36:06	-	0.82
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.83e+07	0.45 y	39:34	-	0.77 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.03 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.08 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.08
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.08
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.01
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.01
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.03 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.96
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.03
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.03
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.03
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.03 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.00
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.17 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.08
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.01
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.03
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.96
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.03
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.00
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.17
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.37
73	Tot	TCDD EMPC	-	-	- n	-	-	1.08
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.01
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.03
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.96
77	Tot	TCDF EMPC	-	-	- n	-	-	1.03
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.00
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.17
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.37
81	AS	13C-1,3,6,8-TCDD	100.00	3.85e+07	0.81 y	23:08	-	1.10 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.10e+07	0.79 y	20:56	-	1.10 ✓
83	DPE	HxCDPE	-	3.97e+04		20:57	-	-
84	DPE	HpCDPE	-	3.73e+03		30:59	-	-
85	DPE	OCDPE	-	1.15e+04		34:34	-	-
86	DPE	NCDPE	-	*		NotF>	-	-
87	DPE	DCDPE	-	*		NotF>	-	-
88	LMC	Fn1 check mass	-	*		NotF>	-	-
89	LMC	Fn2 check mass	-	*		NotF>	-	-
90	LMC	Fn3 check mass	-	*		NotF>	-	-
91	LMC	Fn4 check mass	-	*		NotF>	-	-
92	LMC	Fn5 check mass	-	*		NotF>	-	-

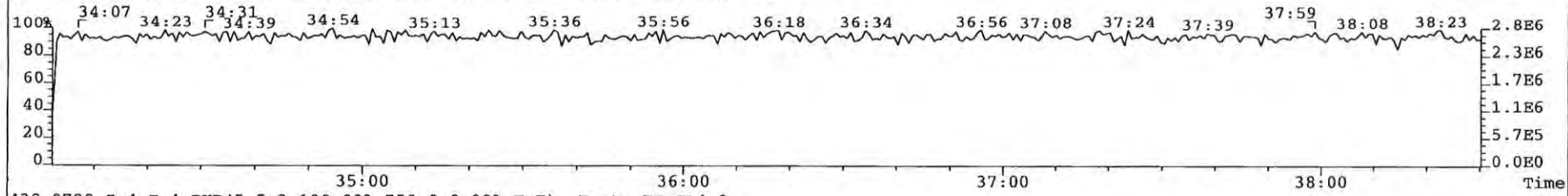
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



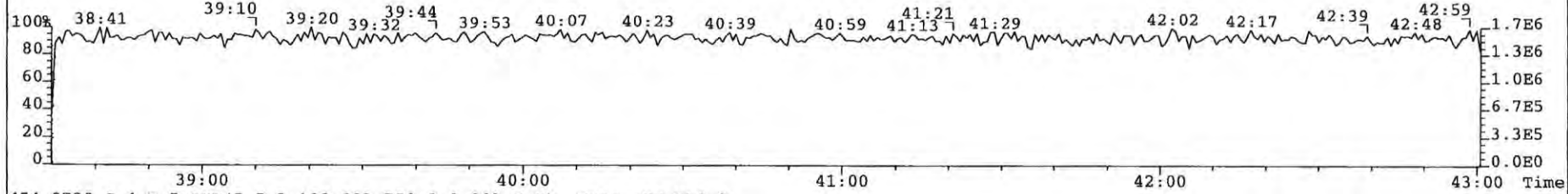
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



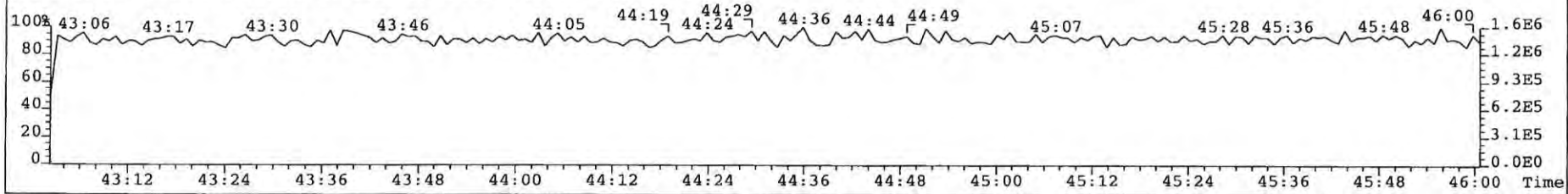
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



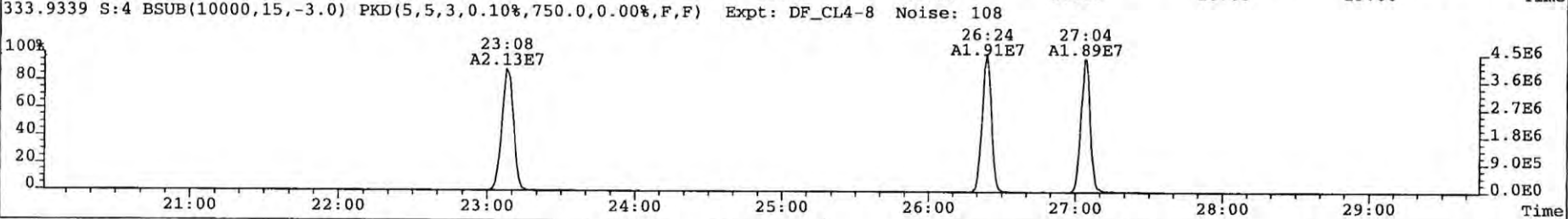
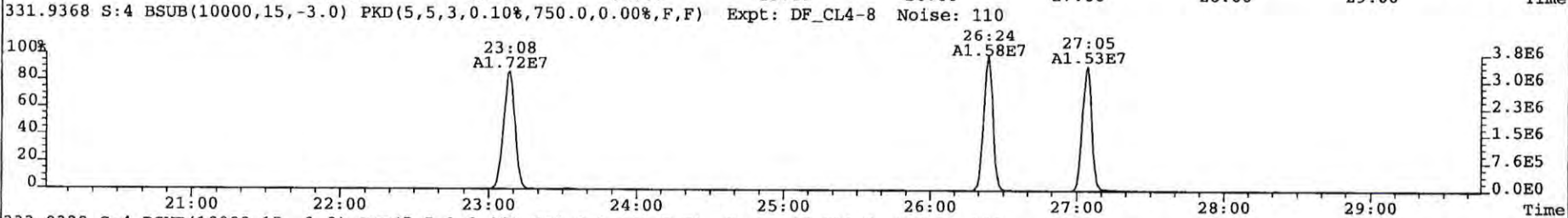
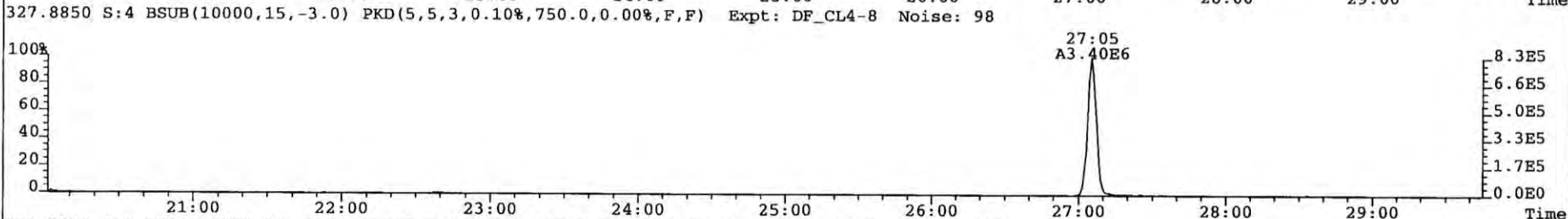
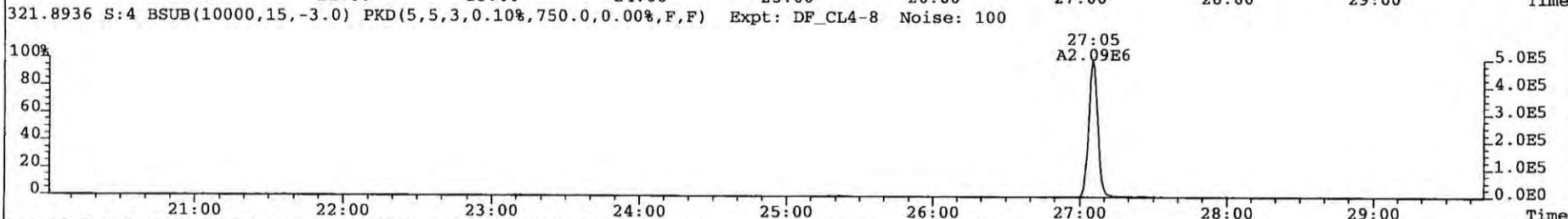
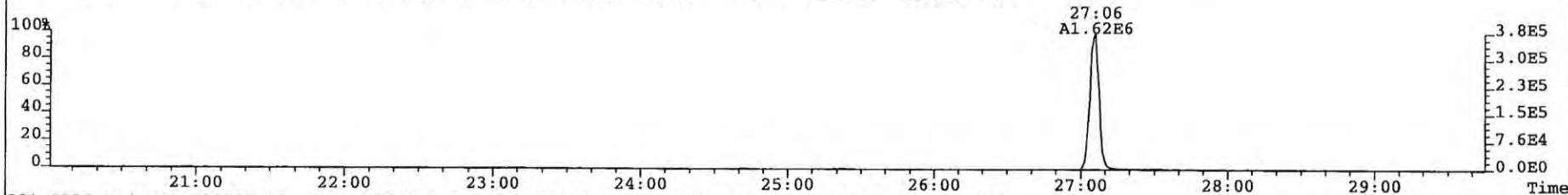
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



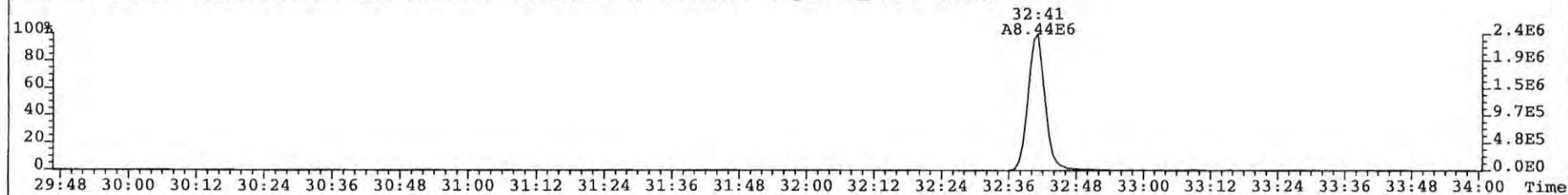
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94



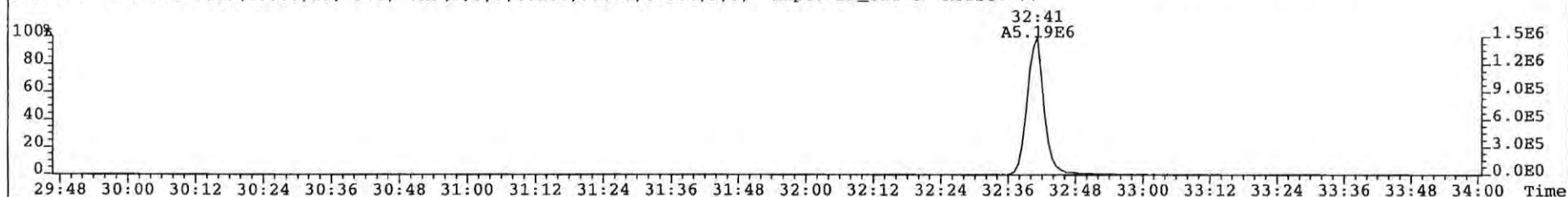
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5

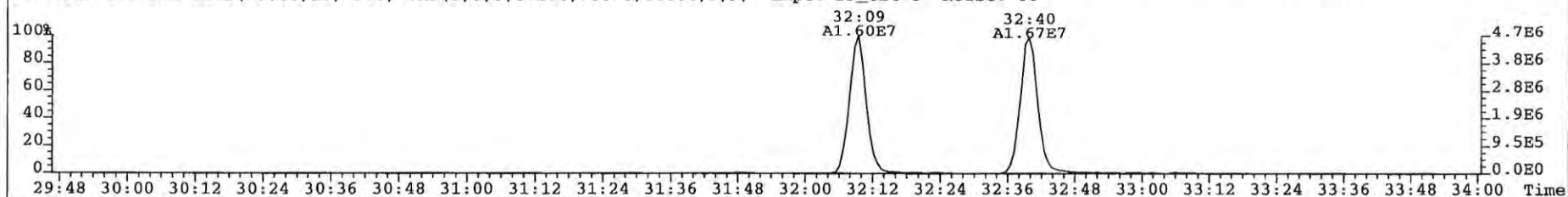
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 76



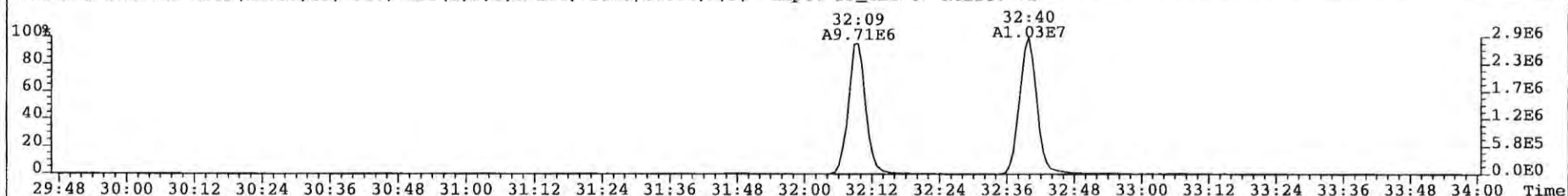
357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



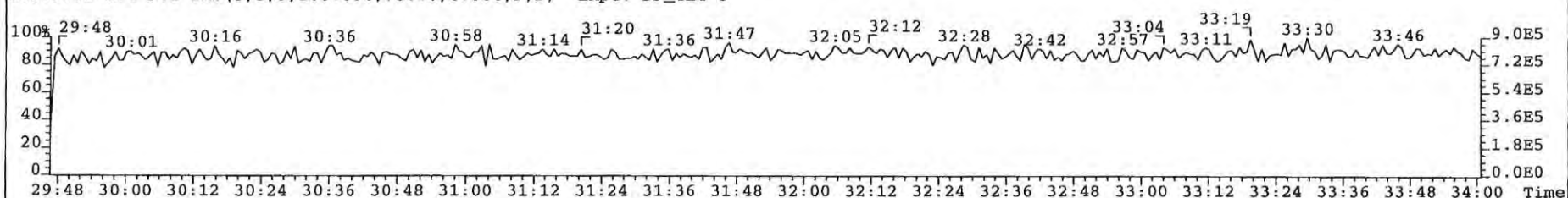
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 86



369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 72



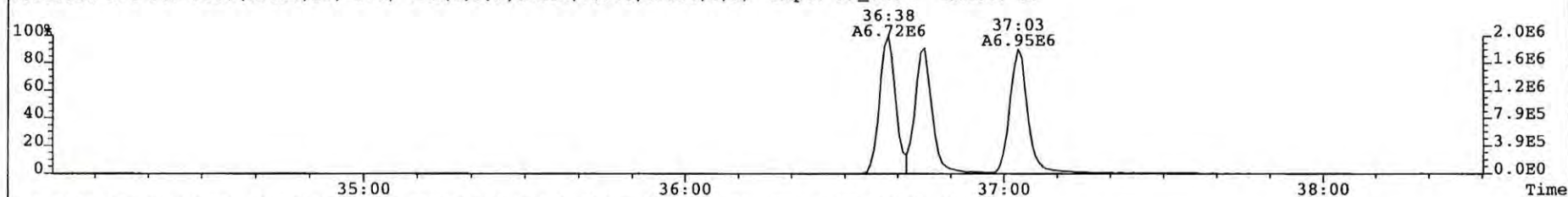
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



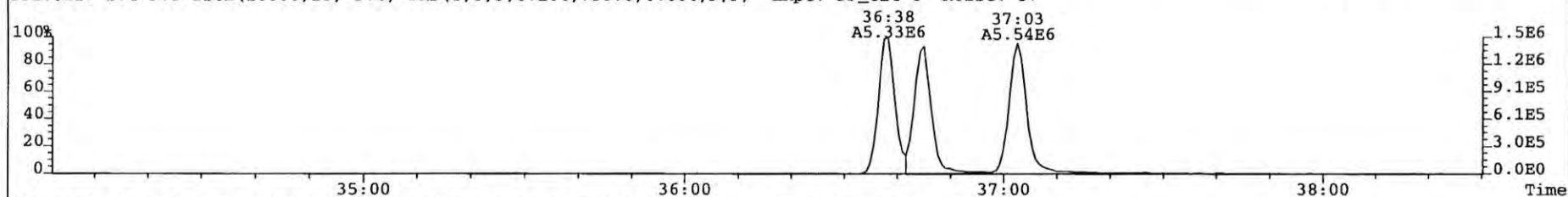
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5

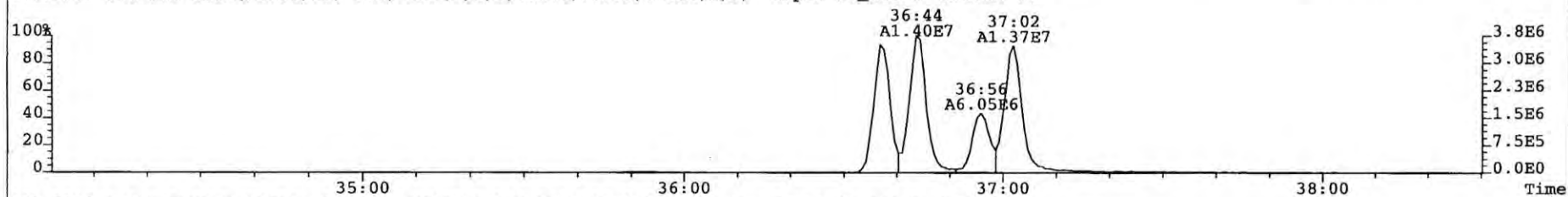
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 57



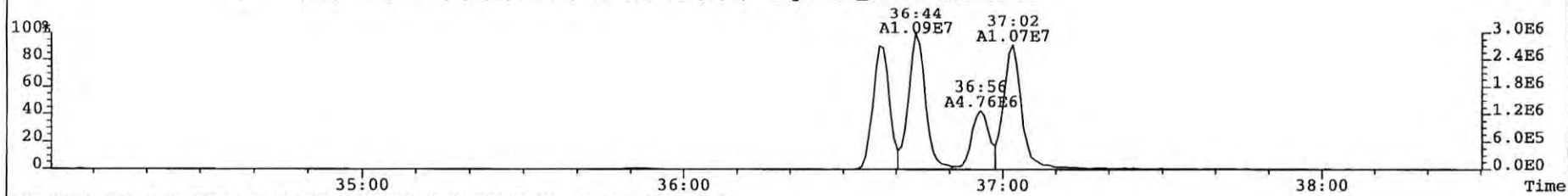
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 57



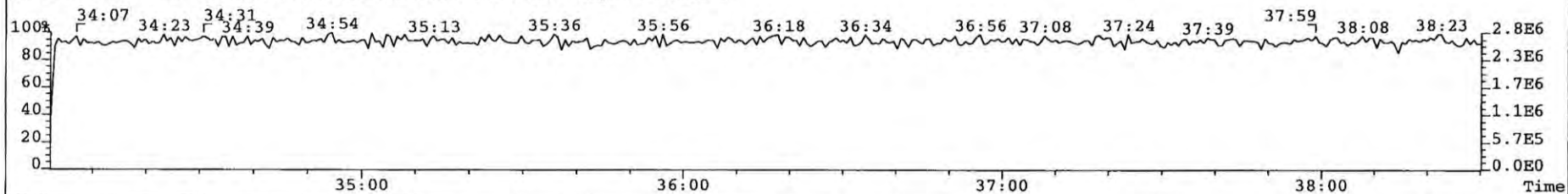
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



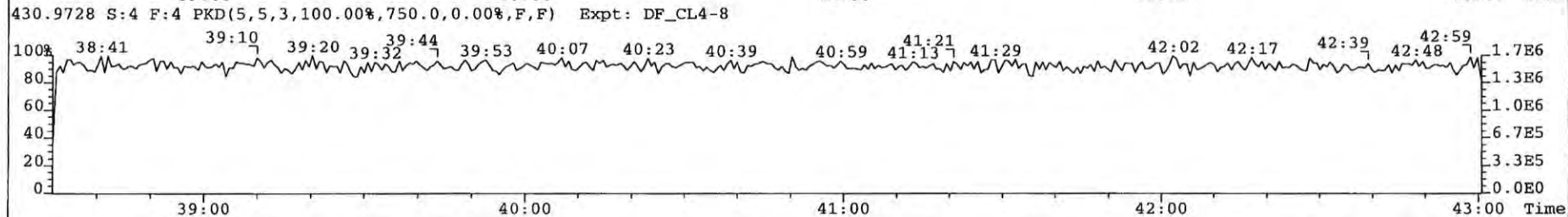
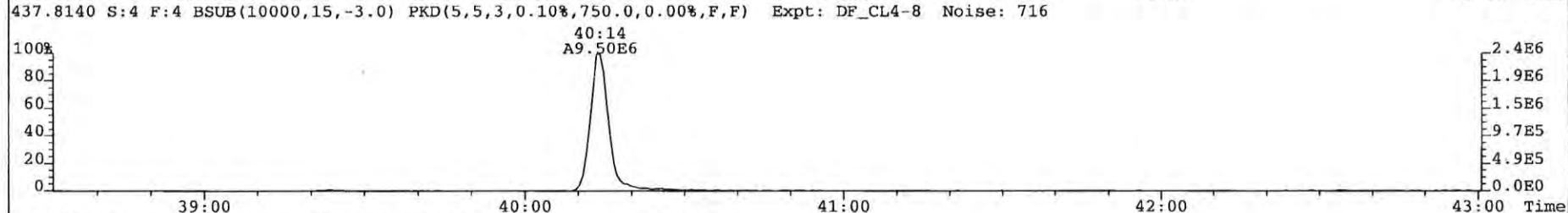
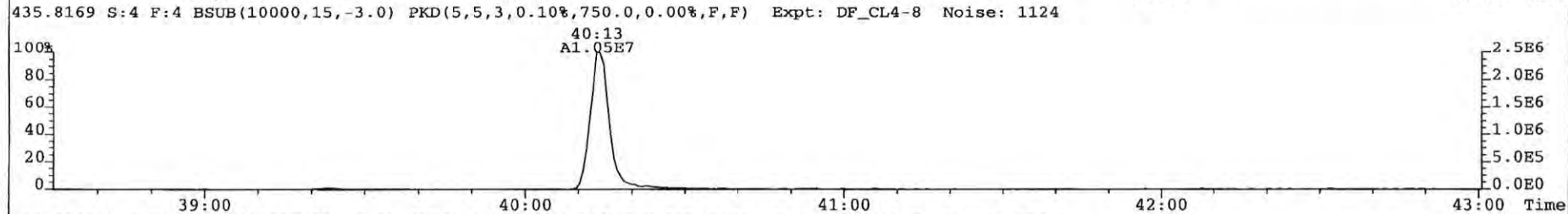
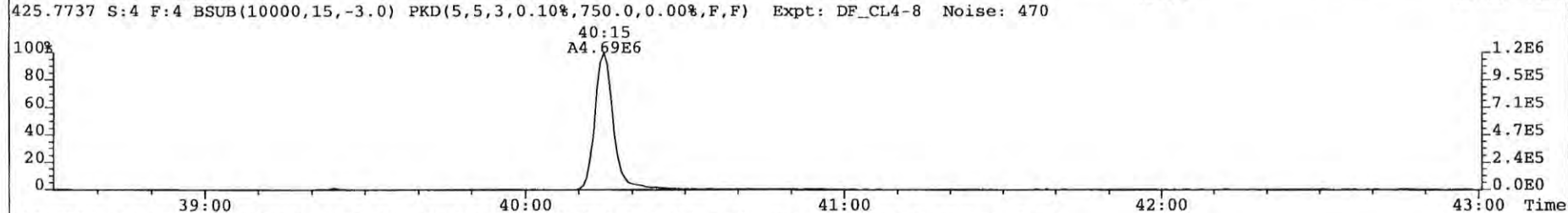
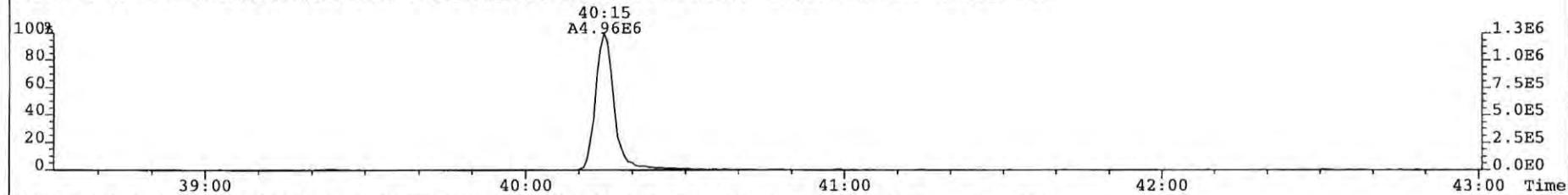
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 71



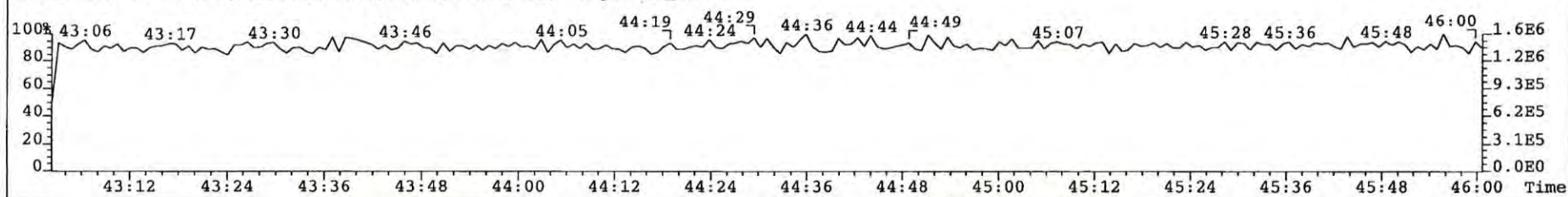
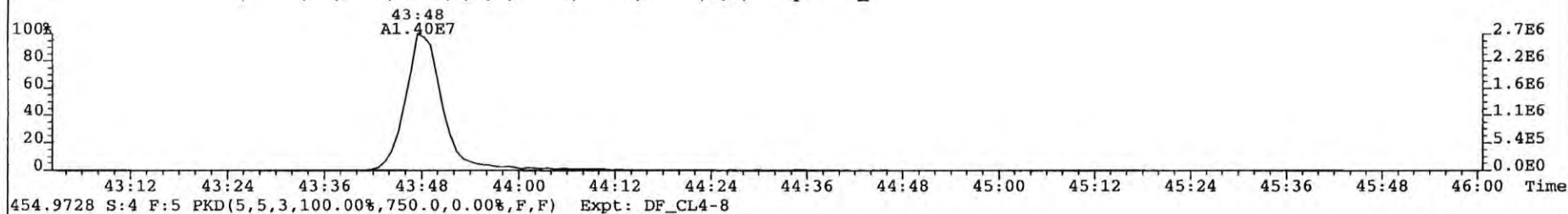
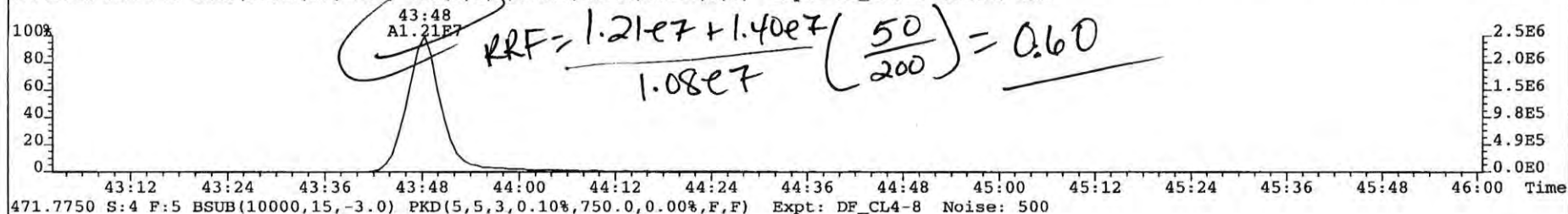
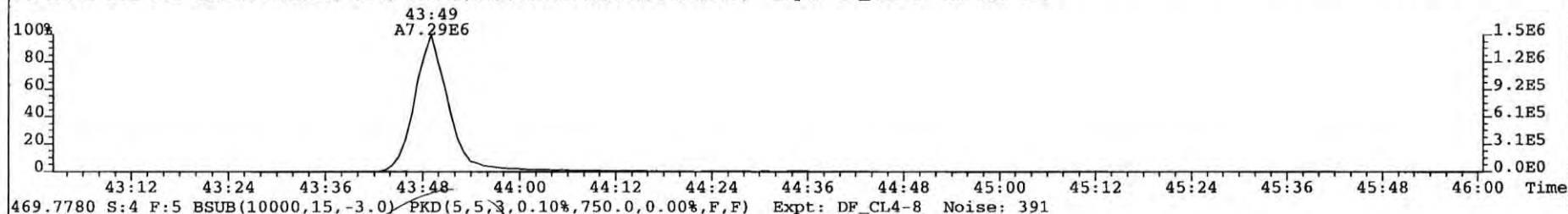
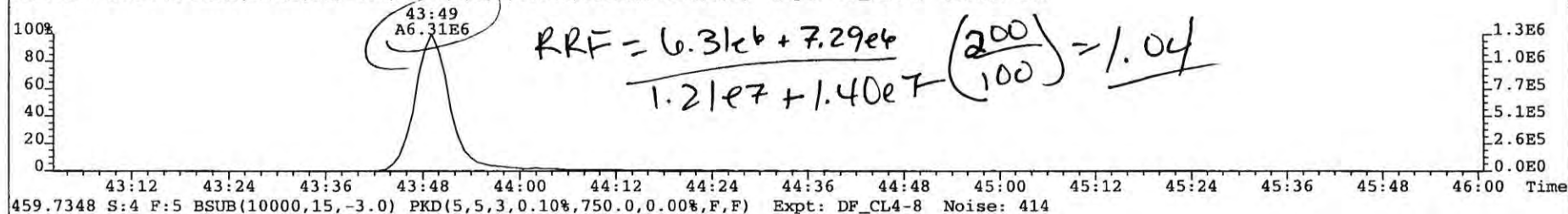
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



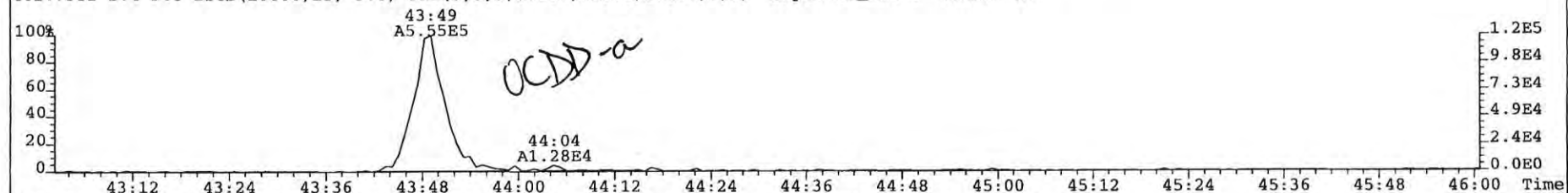
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 543



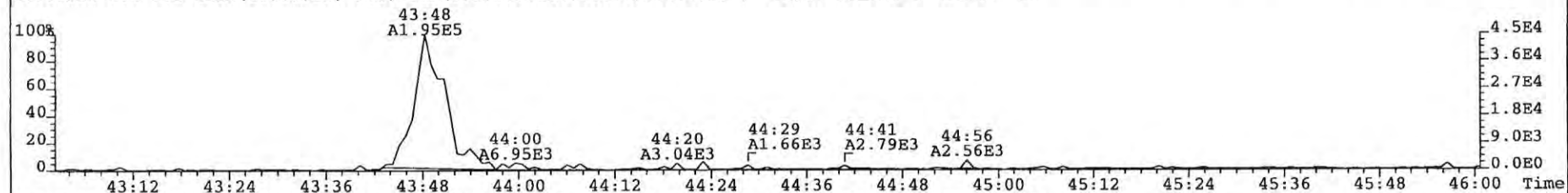
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
 457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 151



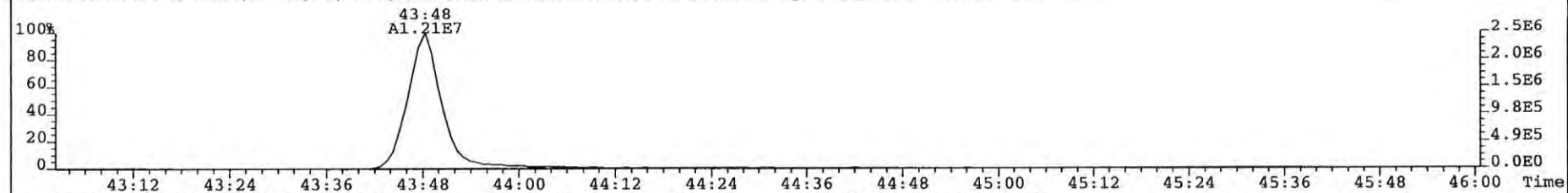
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
462.7352 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 87



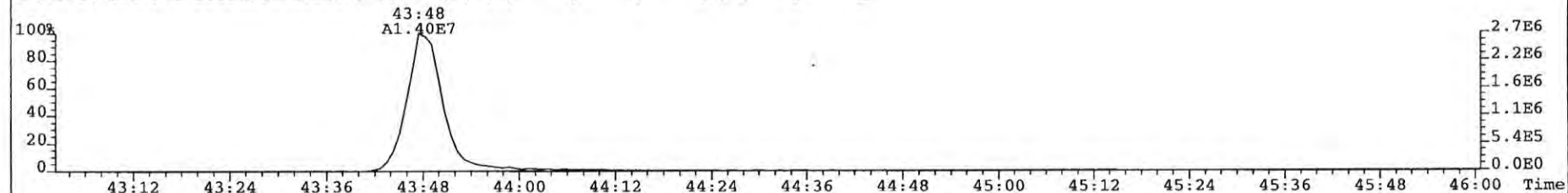
464.7322 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 58



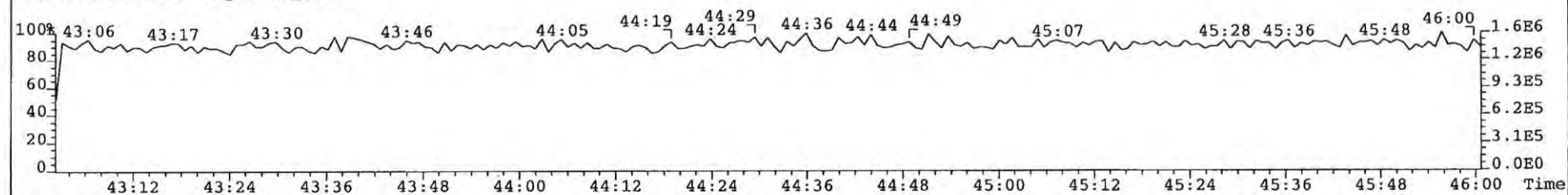
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 391



471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 500



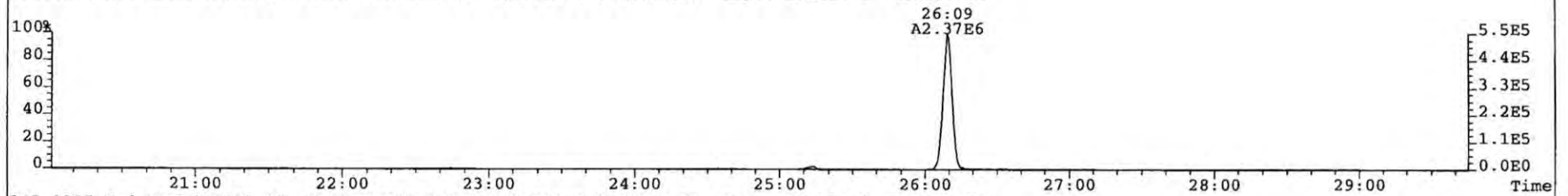
454.9728 S:4 F:5 Expt: DF_CL4-8



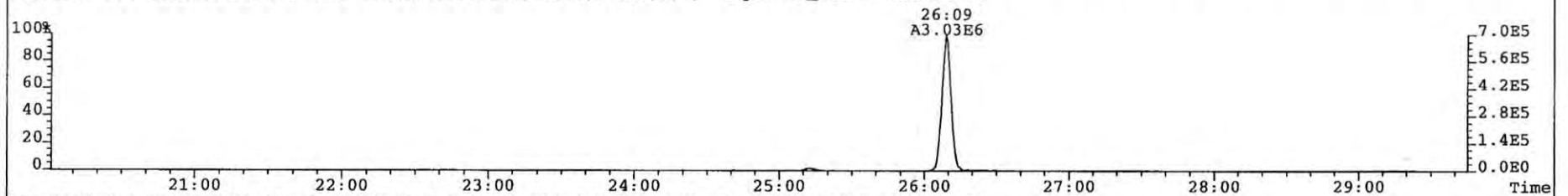
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5

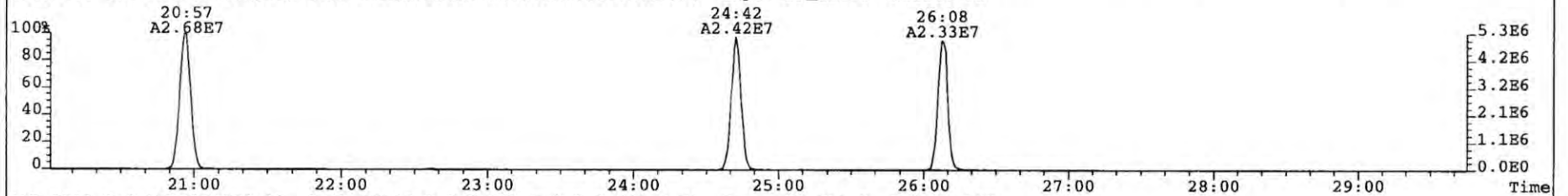
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94



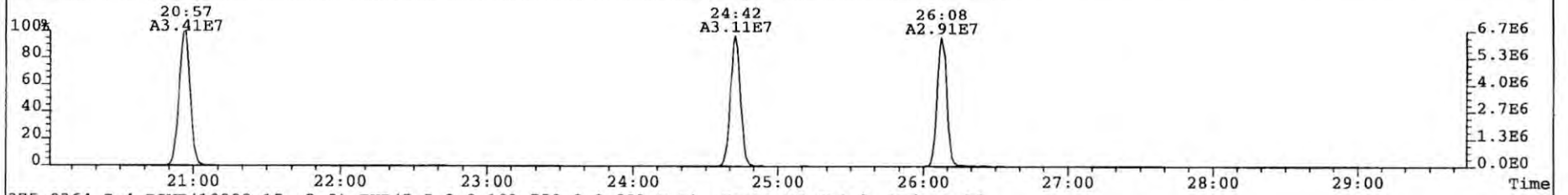
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 96



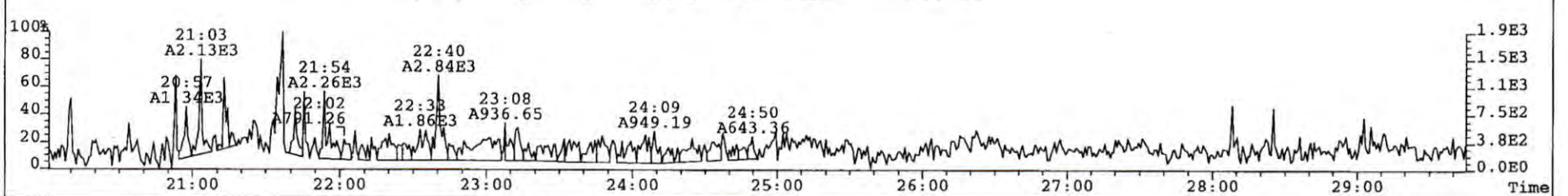
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 92



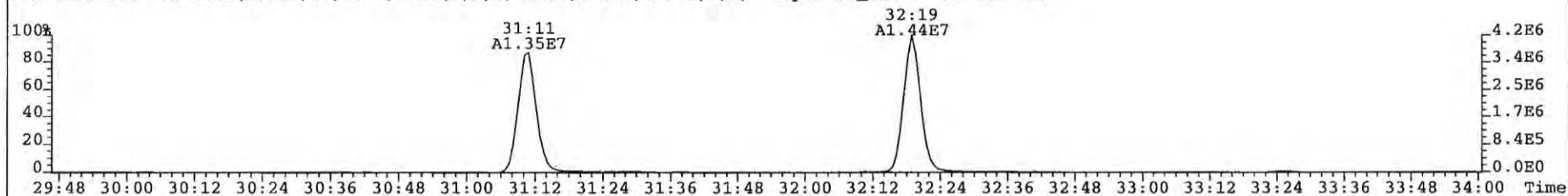
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 100



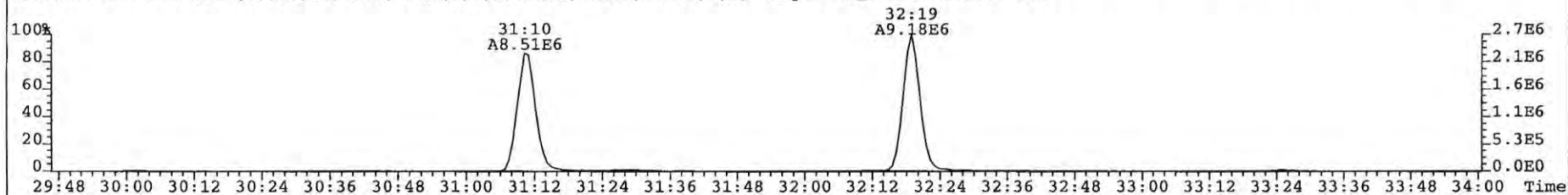
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 96



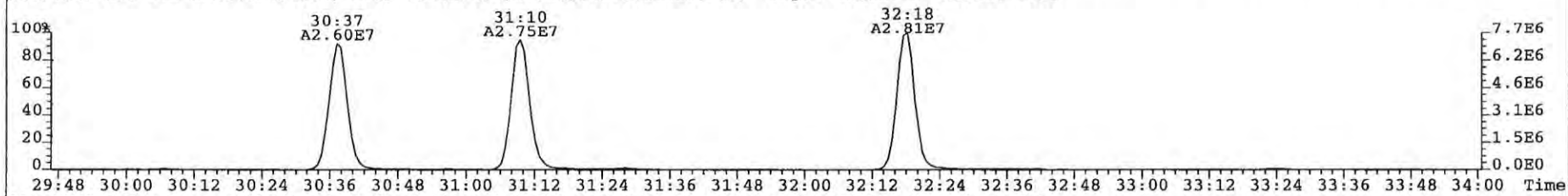
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 718



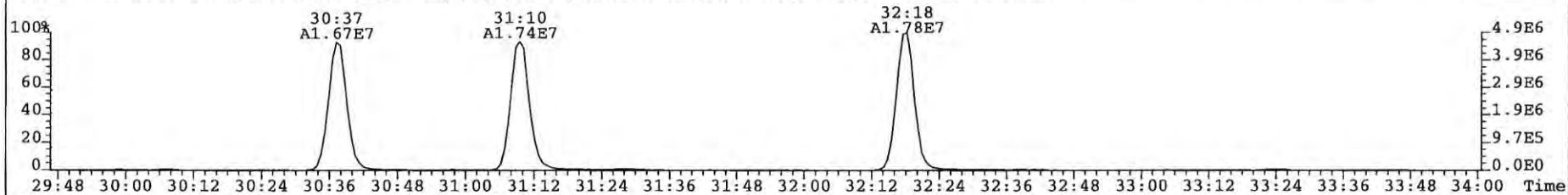
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 484



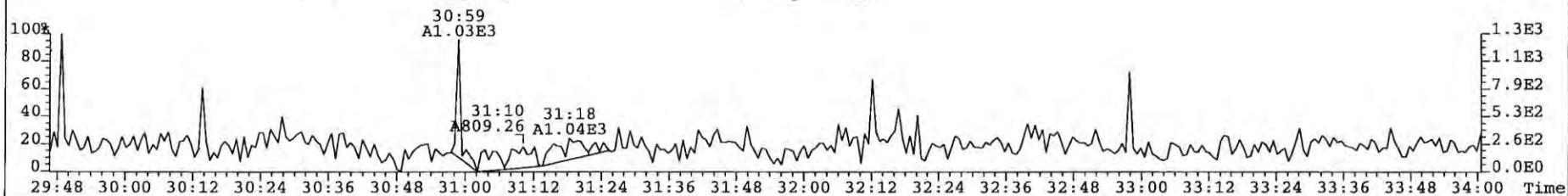
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1750



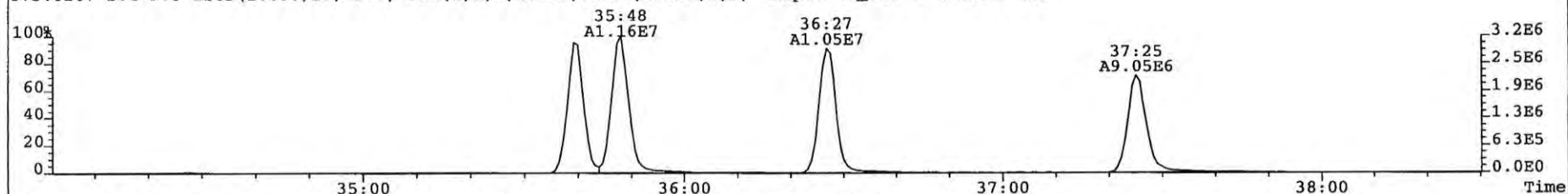
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 902



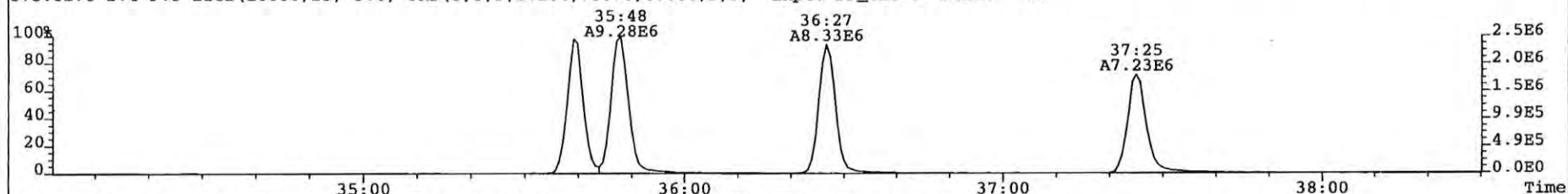
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



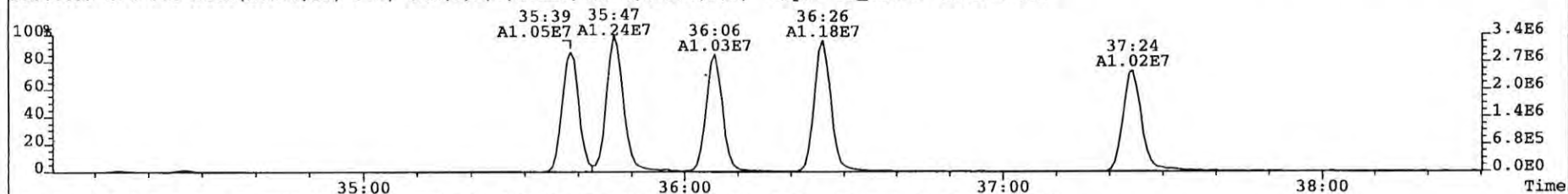
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 490



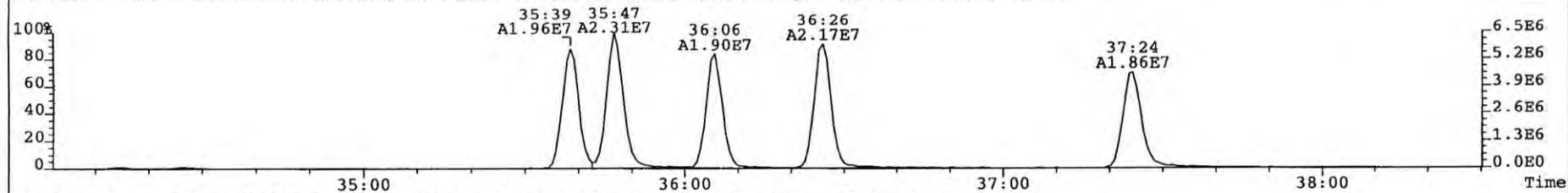
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 390



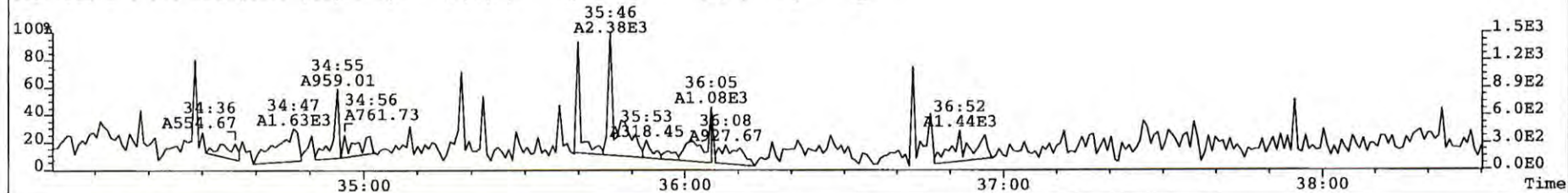
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 935



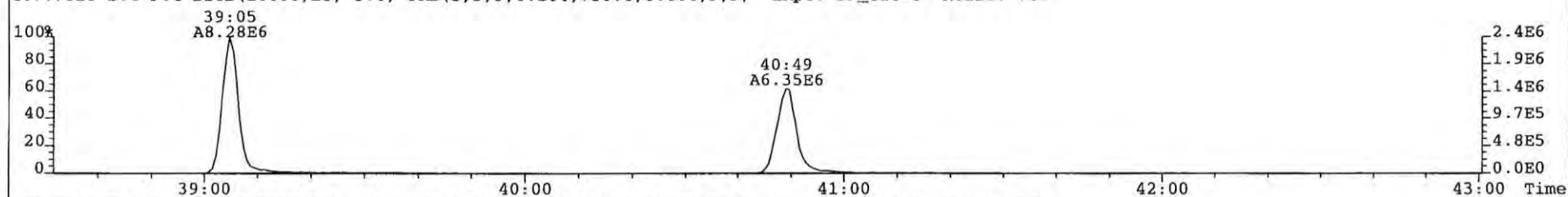
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1262



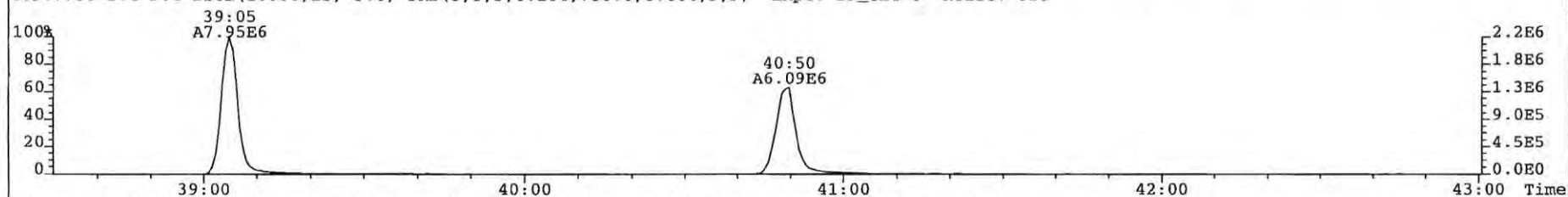
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



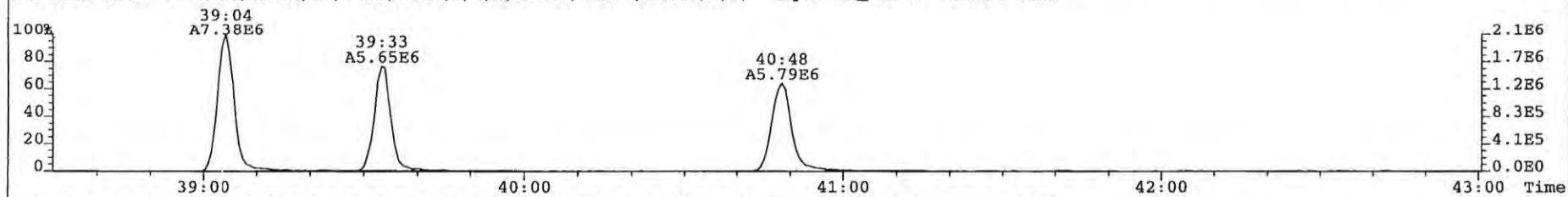
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 787



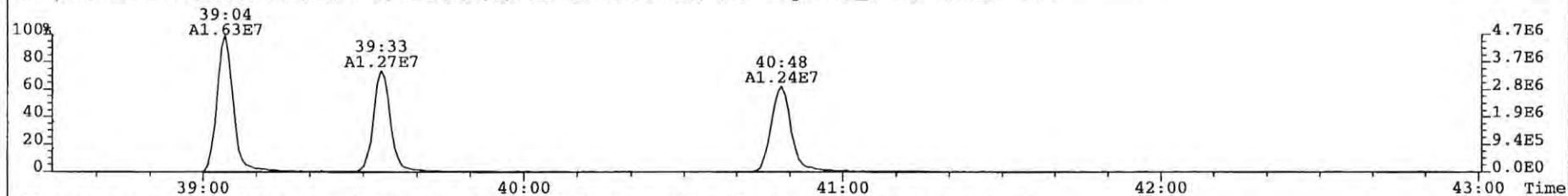
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 628



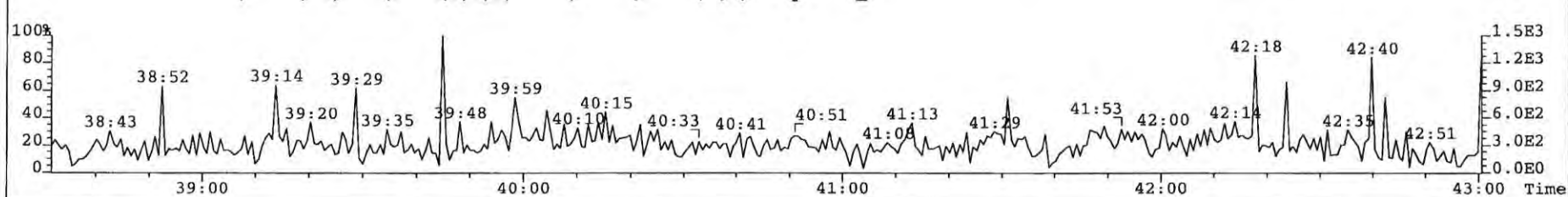
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1081



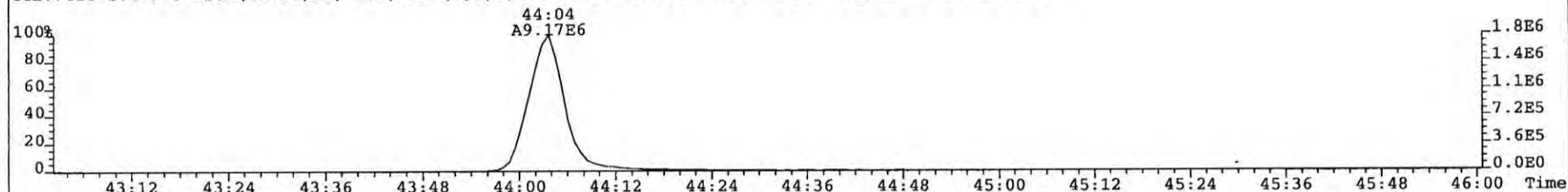
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2005



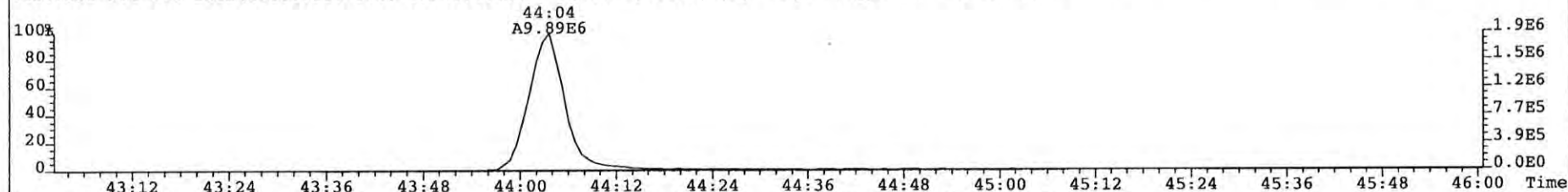
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



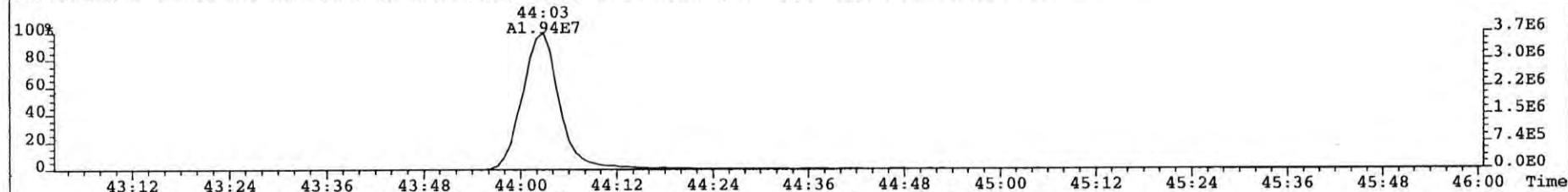
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 133



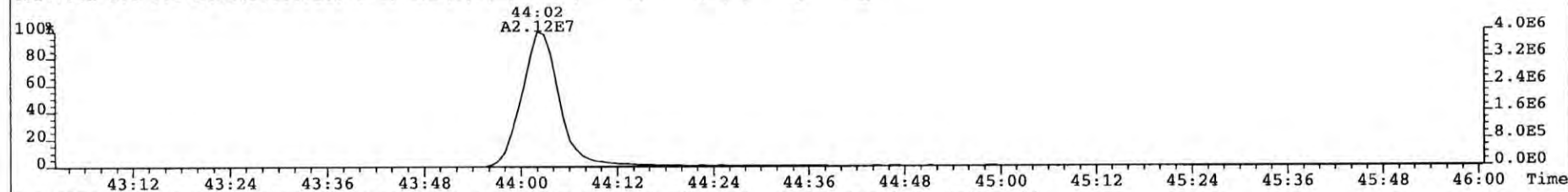
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 367



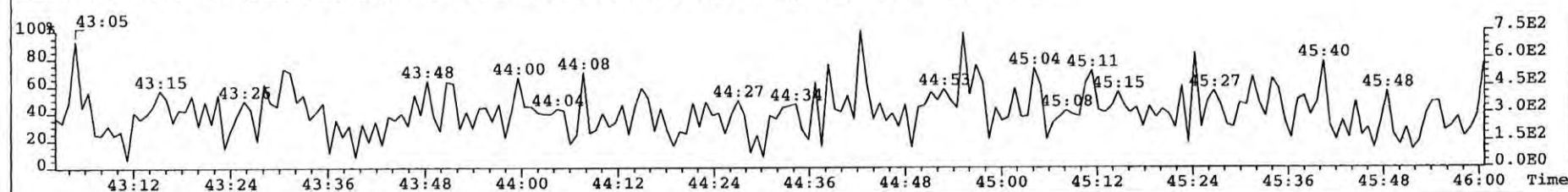
453.7830 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 766



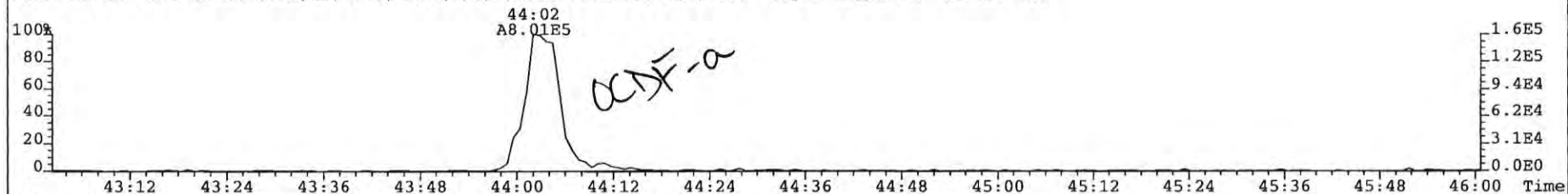
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 449



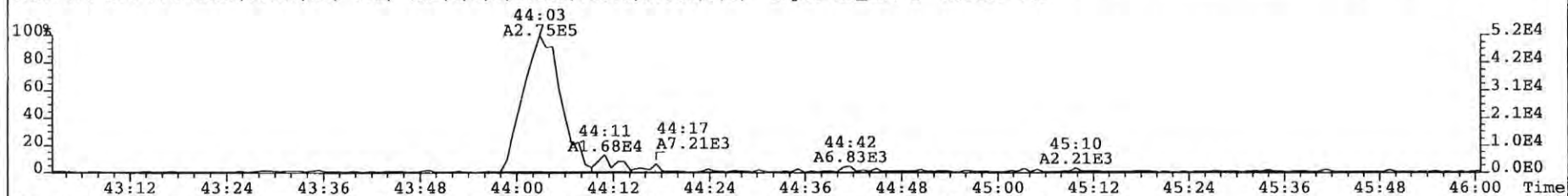
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94



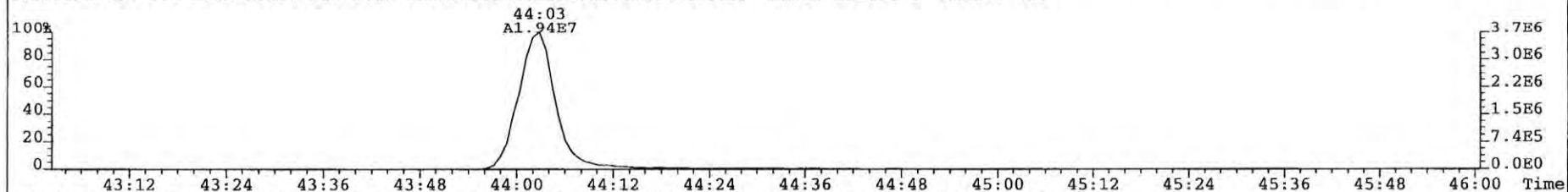
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5
446.7402 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 102



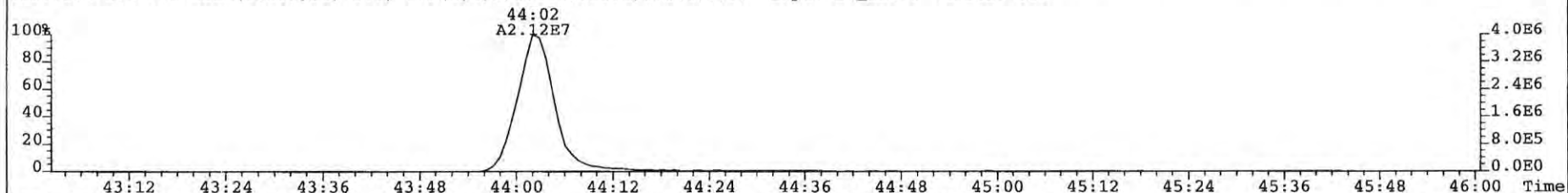
448.7373 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 109



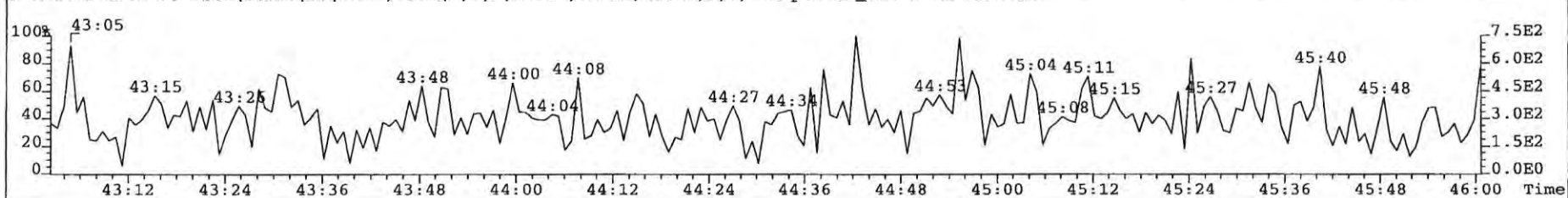
453.7830 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 766



455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 449



513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS4
 Lab ID: SIL7-25-3
 Sample text: SIL7-25-3 NEW ICAL CS4

Filename: 081225P1
 GC Column ID: db-5

S: 5 Acq: 25-DEC-08 13:32:54
 ICal: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 20

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	40.00	1.55e+07	0.79 y	27:05	-	1.11✓
2	Ax 1,2,3,7,8-PeCDD	200.00	5.87e+07	1.63 y	32:41	-	1.01
3	Ax 1,2,3,4,7,8-HxCDD	200.00	5.10e+07	1.26 y	36:38	-	1.11
4	Ax 1,2,3,6,7,8-HxCDD	200.00	5.31e+07	1.26 y	36:45	-	0.99✓
5	Ax 1,2,3,7,8,9-HxCDD	200.00	5.42e+07	1.26 y	37:03	-	1.06
6	Ax 1,2,3,4,6,7,8-HpCDD	200.00	4.24e+07	1.06 y	40:15	-	1.02
7	Ax OCDD	400.00	6.10e+07	0.89 y	43:50	-	1.10✓
8	Ax2 OCDD-a	400.00	3.43e+06	2.60 y	43:49	-	0.06
9	Ax 2,3,7,8-TCDF	40.00	2.25e+07	0.79 y	26:09	-	1.06✓
10	Ax 1,2,3,7,8-PeCDF	200.00	9.44e+07	1.59 y	31:11	-	1.01
11	Ax 2,3,4,7,8-PeCDF	200.00	1.00e+08	1.58 y	32:19	-	1.04
12	Ax 1,2,3,4,7,8-HxCDF	200.00	7.89e+07	1.26 y	35:39	-	1.26✓
13	Ax 1,2,3,6,7,8-HxCDF	200.00	9.16e+07	1.23 y	35:48	-	1.21
14	Ax 2,3,4,6,7,8-HxCDF	200.00	8.09e+07	1.24 y	36:27	-	1.14
15	Ax 1,2,3,7,8,9-HxCDF	200.00	7.02e+07	1.26 y	37:26	-	1.15✓
16	Ax 1,2,3,4,6,7,8-HpCDF	200.00	6.89e+07	1.04 y	39:05	-	1.40
17	Ax 1,2,3,4,7,8,9-HpCDF	200.00	5.43e+07	1.06 y	40:50	-	1.36
18	Ax OCDF	400.00	8.51e+07	0.91 y	44:04	-	0.96✓
19	Ax2 OCDF-a	400.00	4.71e+06	2.64 y	44:04	-	0.05
20	ES 13C-2,3,7,8-TCDD	100.00	3.48e+07	0.83 y	27:04	-	0.98✓
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.89e+07	1.66 y	32:40	-	0.81
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.29e+07	1.25 y	36:37	-	1.01
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.67e+07	1.26 y	36:44	-	1.18✓
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.56e+07	1.28 y	37:02	-	1.13
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.08e+07	1.06 y	40:14	-	0.92
26	ES 13C-OCDD	200.00	2.77e+07	0.88 y	43:49	-	0.61✓
27	ES 13C-2,3,7,8-TCDF	100.00	5.31e+07	0.80 y	26:08	-	0.95✓
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.66e+07	1.59 y	31:10	-	0.83
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.83e+07	1.56 y	32:18	-	0.86
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.13e+07	0.53 y	35:39	-	1.38✓
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.80e+07	0.55 y	35:47	-	1.68
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.54e+07	0.54 y	36:26	-	1.57
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	3.05e+07	0.53 y	37:24	-	1.35✓
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.46e+07	0.45 y	39:04	-	1.09✓ calc.
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.99e+07	0.44 y	40:49	-	0.88
36	ES 13C-OCDF	200.00	4.44e+07	0.89 y	44:03	-	0.98✓
37	CS 37Cl-2,3,7,8-TCDD	40.00	1.41e+07		27:05	-	0.99✓
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.76e+07	1.68 y	32:10	-	0.78
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.52e+07	1.57 y	30:37	-	0.81
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	3.11e+07	0.53 y	36:06	-	1.38✓
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	2.05e+07	0.46 y	39:33	-	0.91
42	NA n/a	100.00	*	* n	NotF»	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.56e+07	0.84 y	26:24	3.56e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	5.61e+07	0.77 y	24:42	5.61e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.13e+07	1.30 y	36:56	2.26e+05	-

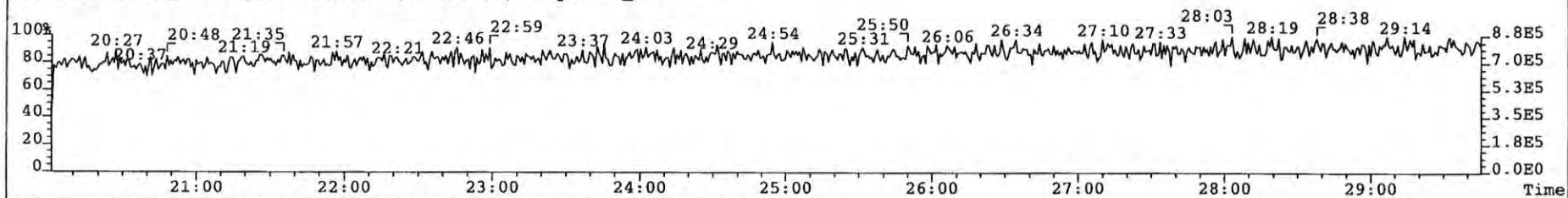
40pg/ml

✓ calc.

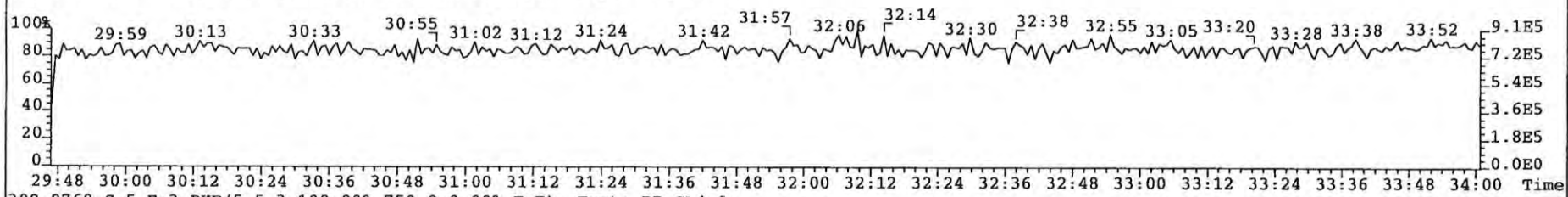
Analyst: WJY
 Date: 23 Dec 08

46	SS	37Cl-2,3,7,8-TCDD	40.00	1.41e+07		27:05	-	1.01 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.76e+07	1.68 y	32:10	-	0.95
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.52e+07	1.57 y	30:37	-	0.97 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.11e+07	0.53 y	36:06	-	0.82
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.05e+07	0.46 y	39:33	-	0.83 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.06 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.11 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.11
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.11
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.01
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.01
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.05 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	1.02
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.06
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.06
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.06
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.06 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.03
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.19 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.11
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.01
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.05
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	1.02
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.06
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.03
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.19
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.38
73	Tot	TCDD EMPC	-	-	- n	-	-	1.11
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.01
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.05
76	Tot	HpCDD EMPC	-	-	- n	-	-	1.02
77	Tot	TCDF EMPC	-	-	- n	-	-	1.06
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.03
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.19
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.38
81	AS	13C-1,3,6,8-TCDD	100.00	3.84e+07	0.81 y	23:08	-	1.08 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.06e+07	0.79 y	20:56	-	1.08
83	DPE	HxCdPE	-	4.81e+03		27:39	-	-
84	DPE	HpCDPE	-	1.99e+04		29:56	-	-
85	DPE	OCdPE	-	6.14e+03		37:57	-	-
86	DPE	NCDPE	-	4.79e+03		38:52	-	-
87	DPE	DCDPE	-	1.55e+03		44:56	-	-
88	LMC	Fn1 check mass	-	*		NotF»	-	-
89	LMC	Fn2 check mass	-	*		NotF»	-	-
90	LMC	Fn3 check mass	-	*		NotF»	-	-
91	LMC	Fn4 check mass	-	*		NotF»	-	-
92	LMC	Fn5 check mass	-	*		NotF»	-	-

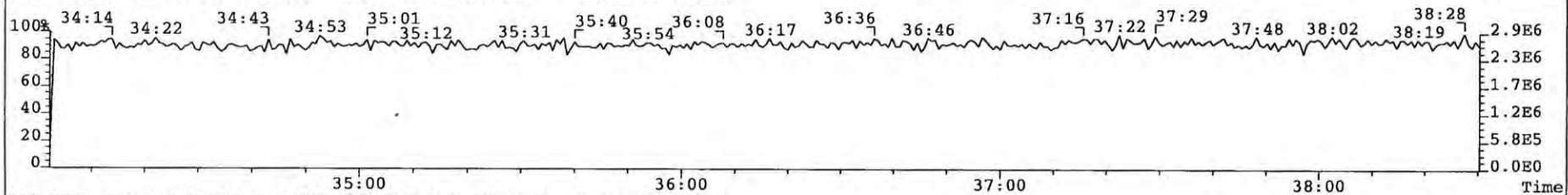
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



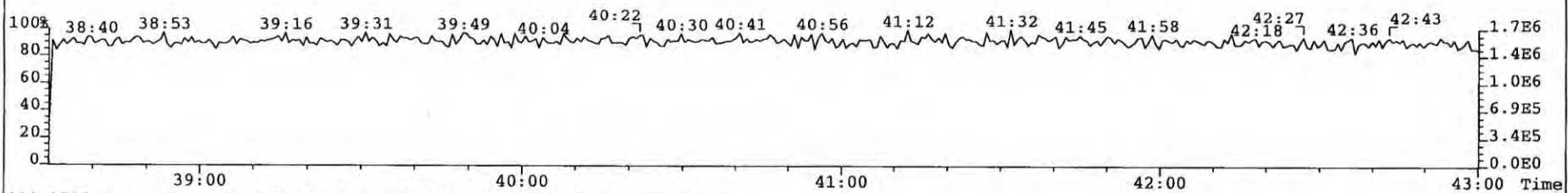
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



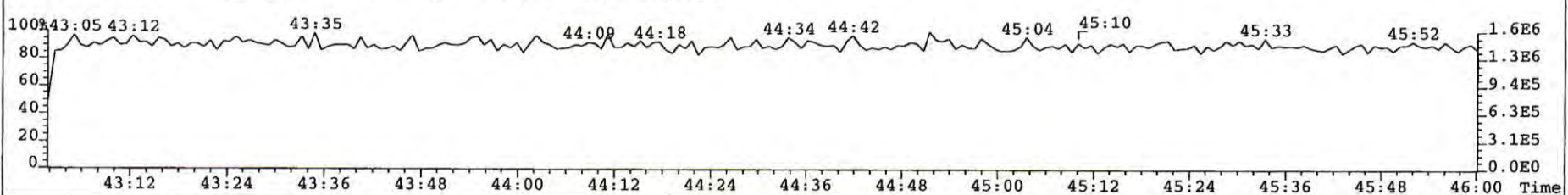
380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



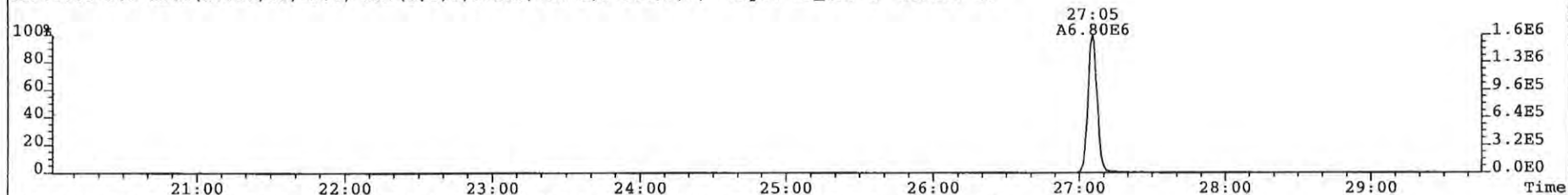
430.9728 S:5 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



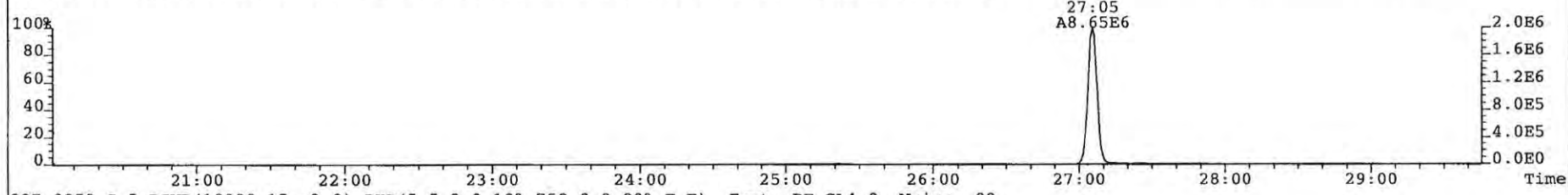
454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



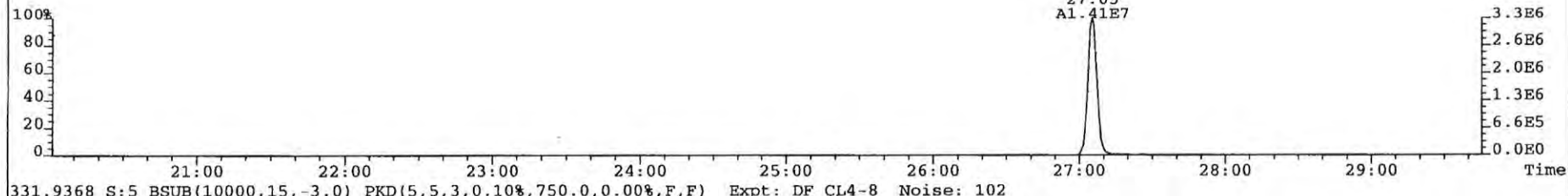
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 93



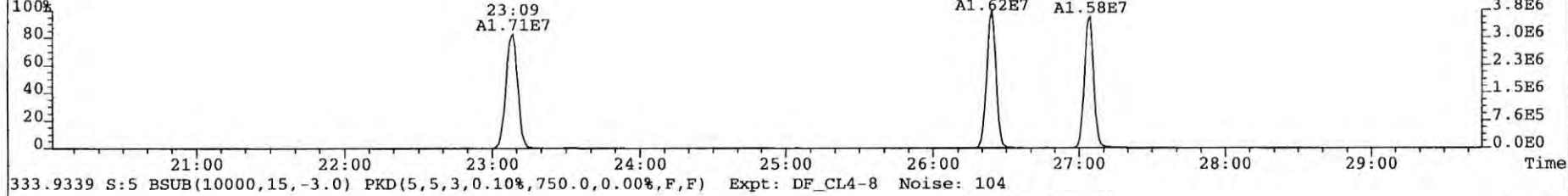
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 84



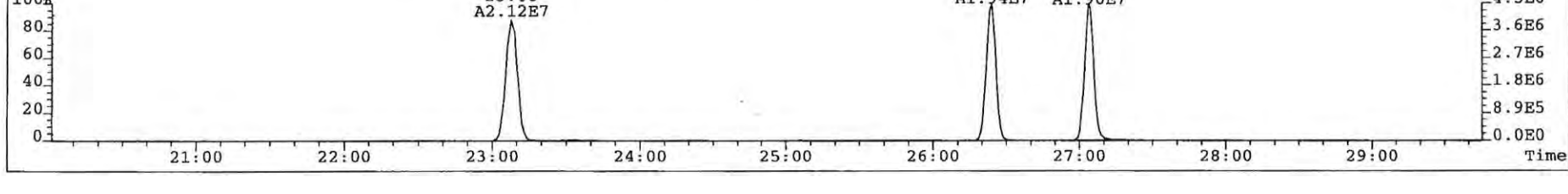
327.8850 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 102



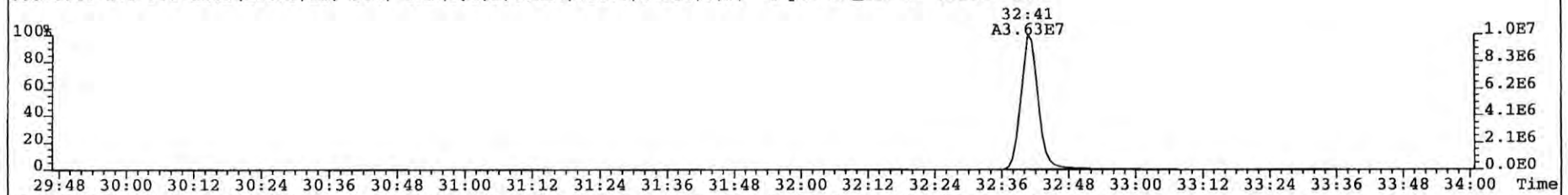
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 104



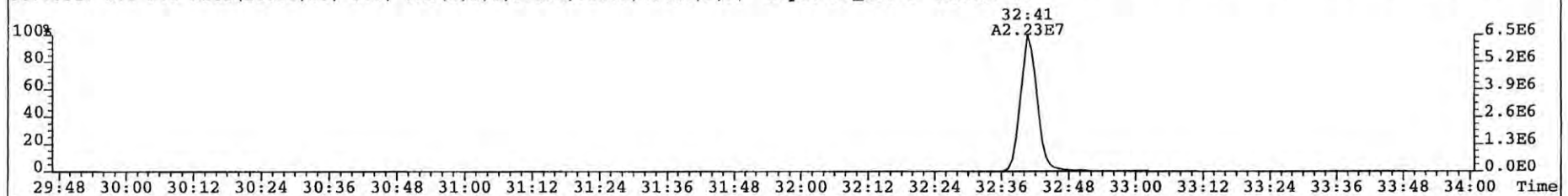
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5

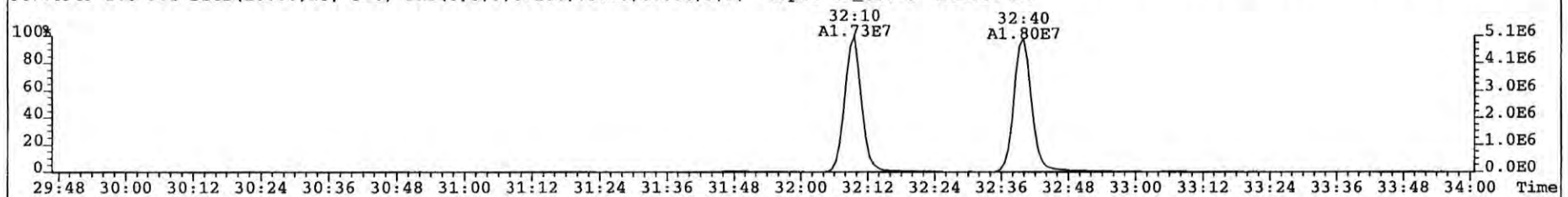
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 108



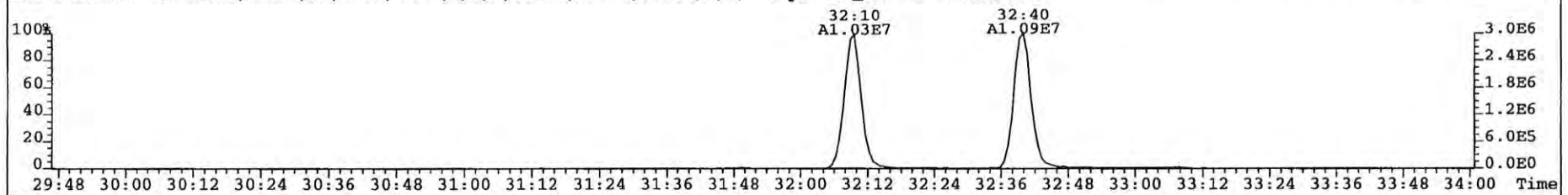
357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



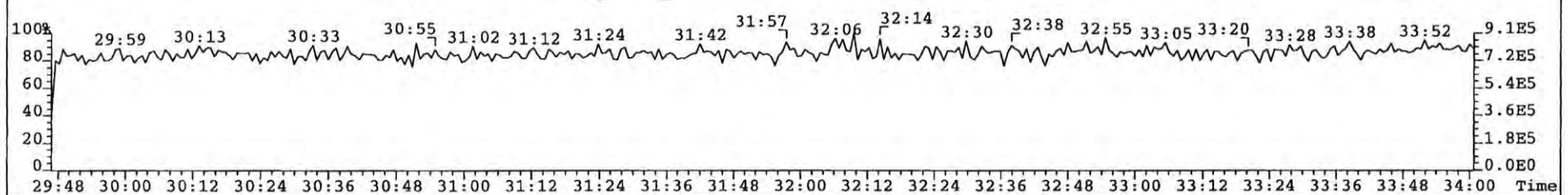
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94



369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 100



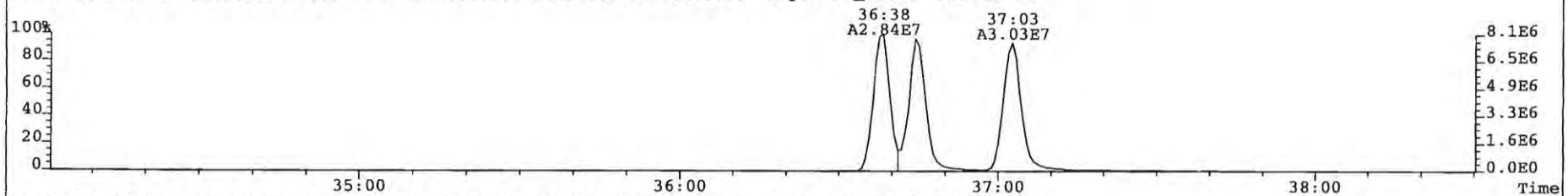
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



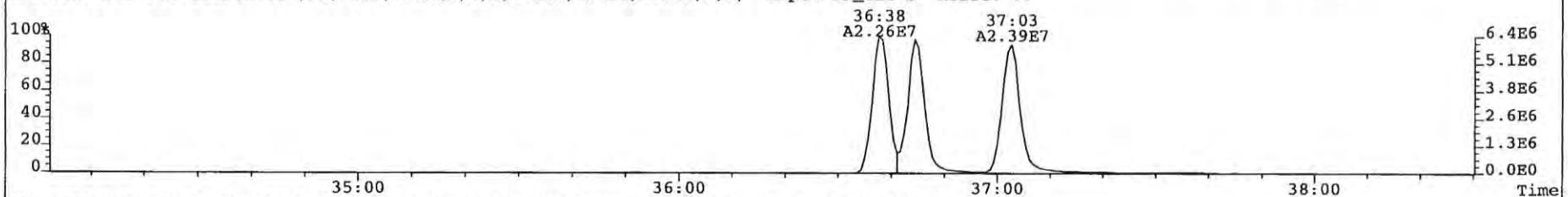
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5

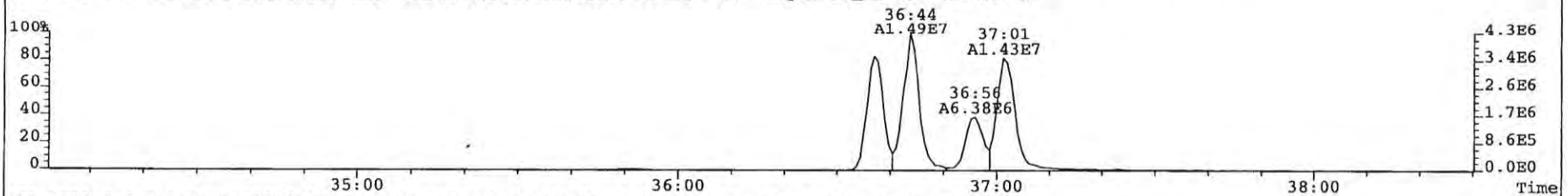
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



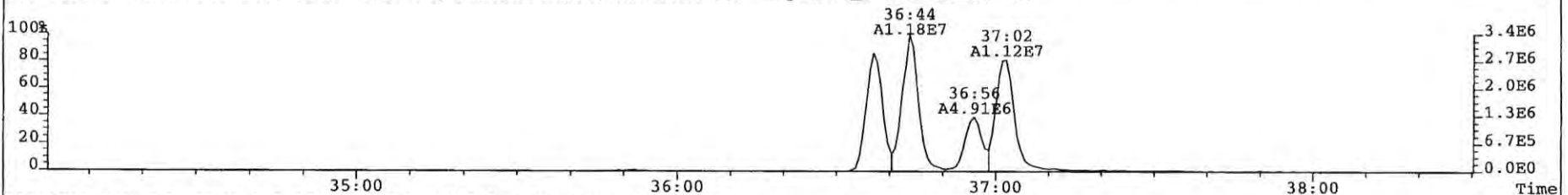
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 77



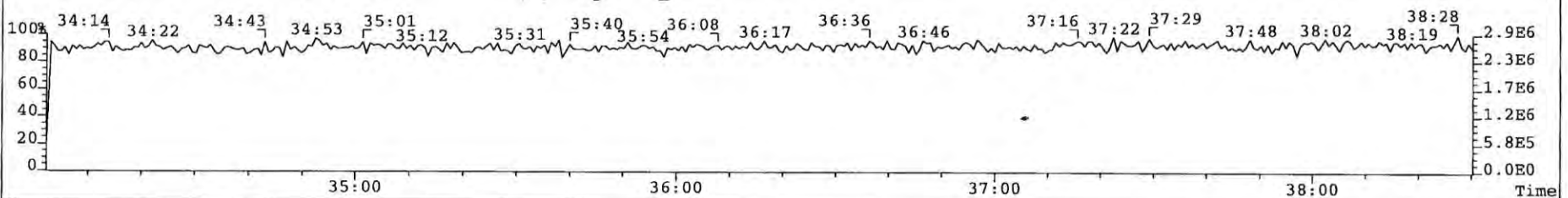
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 76



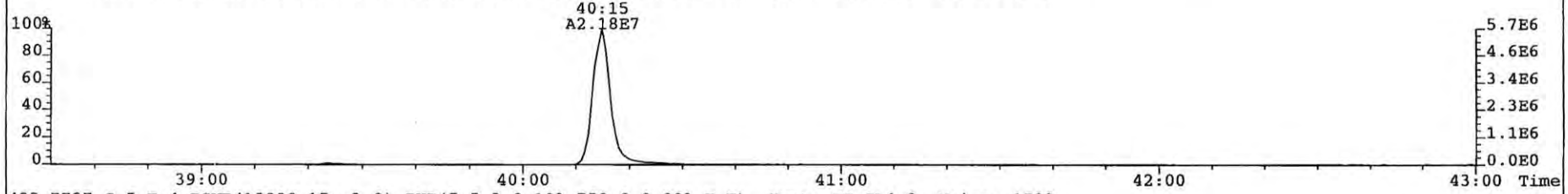
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 82



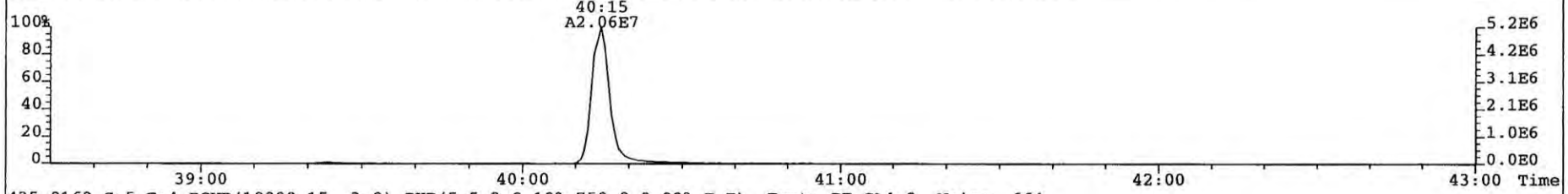
380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



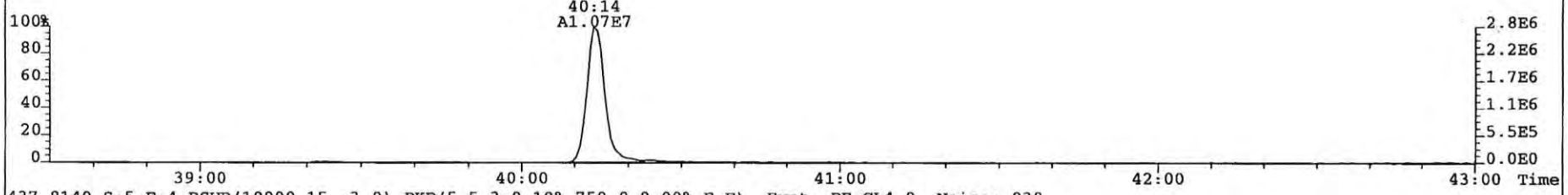
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1152



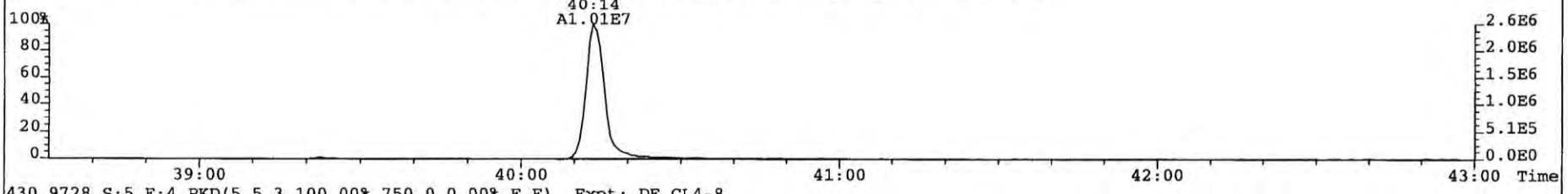
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1592



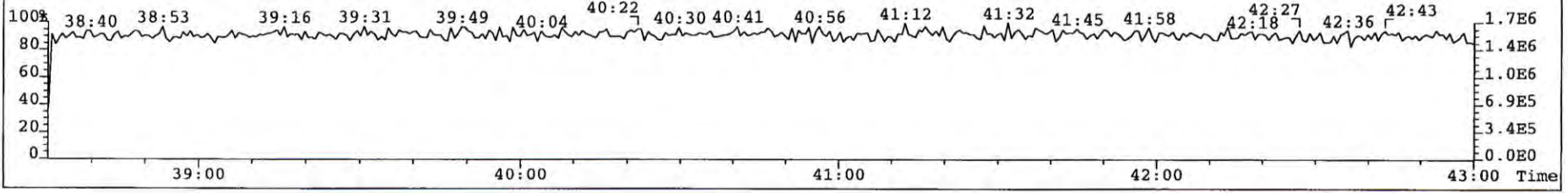
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 664



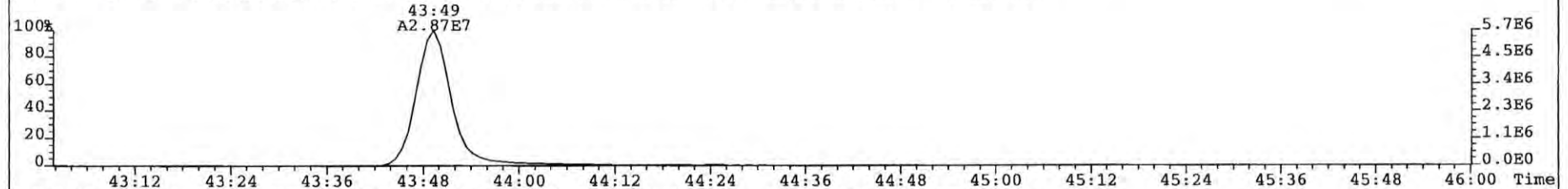
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 838



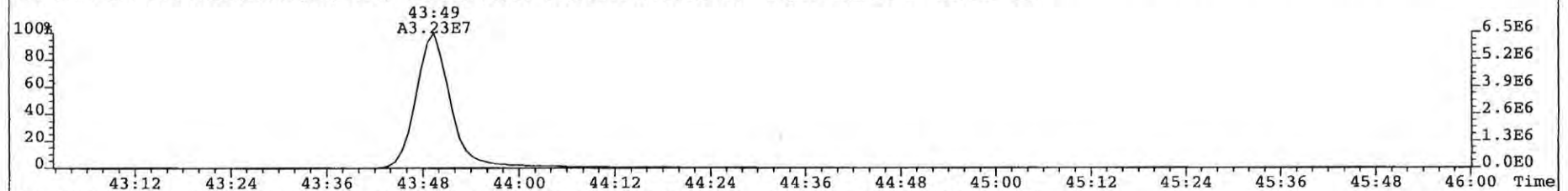
430.9728 S:5 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



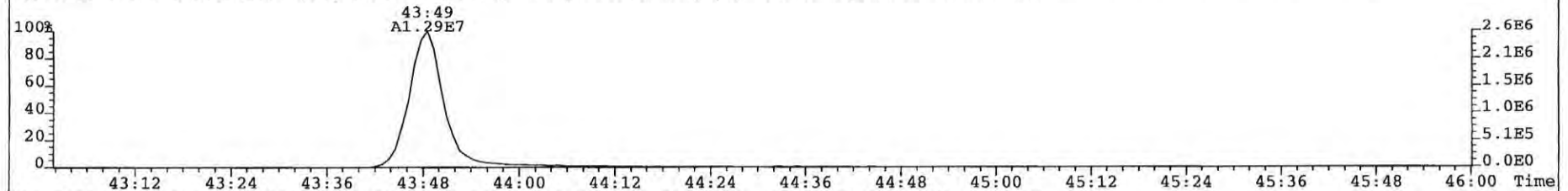
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 517



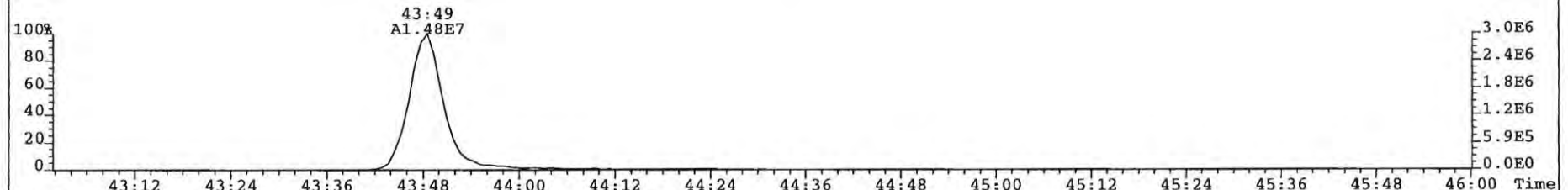
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 621



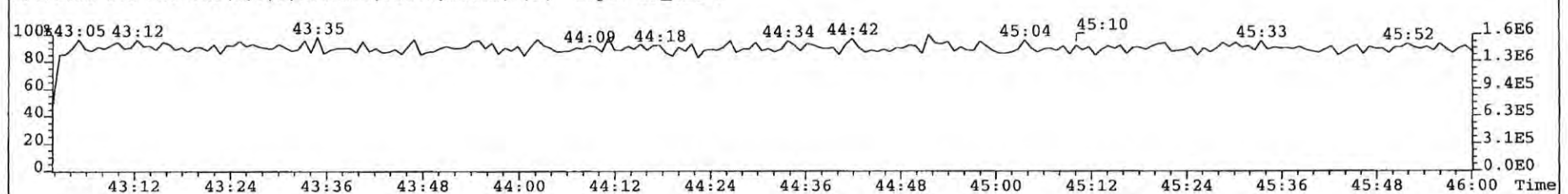
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 364



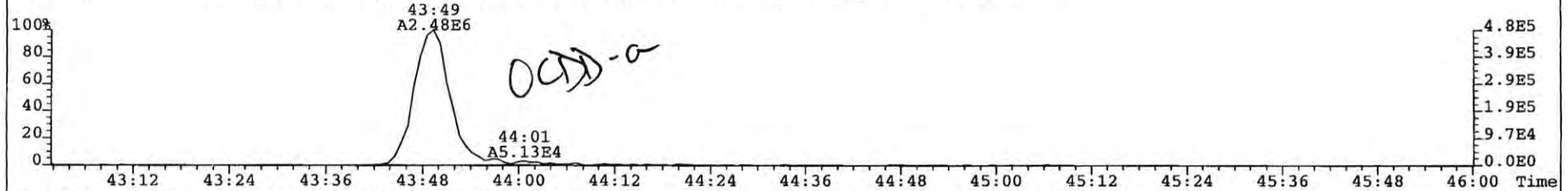
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 227



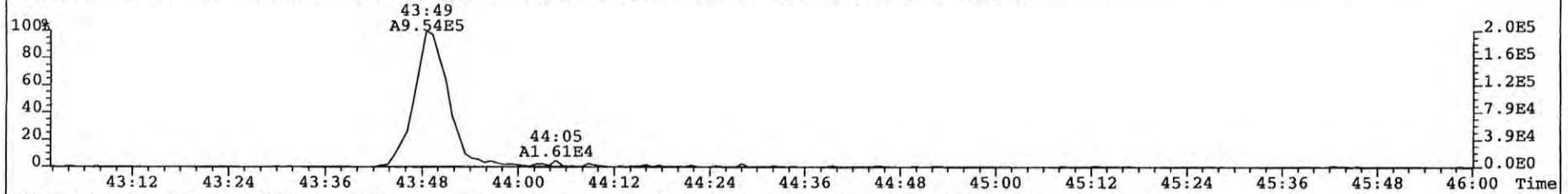
454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



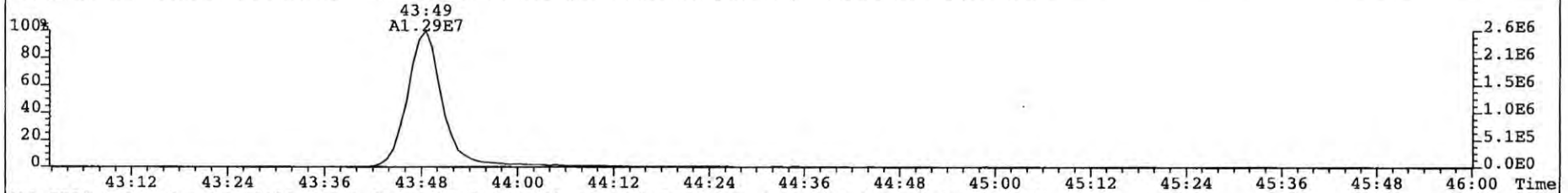
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
462.7352 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 63



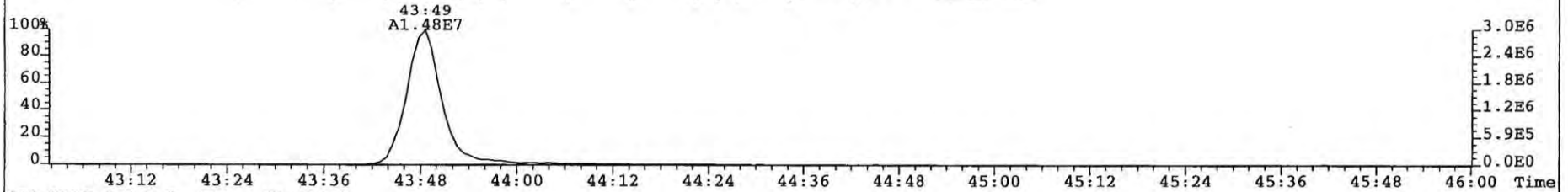
464.7322 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 82



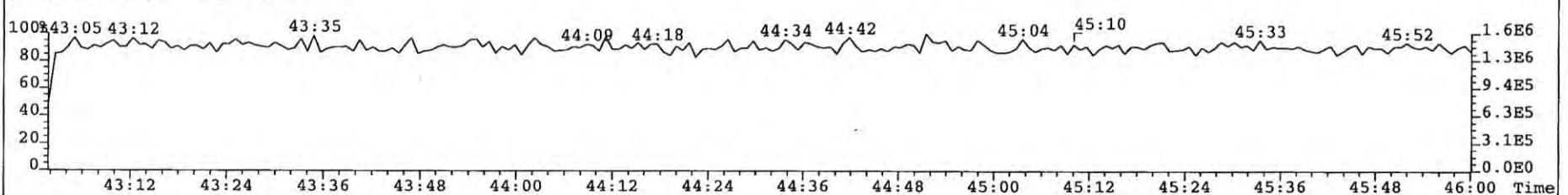
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 364



471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 227



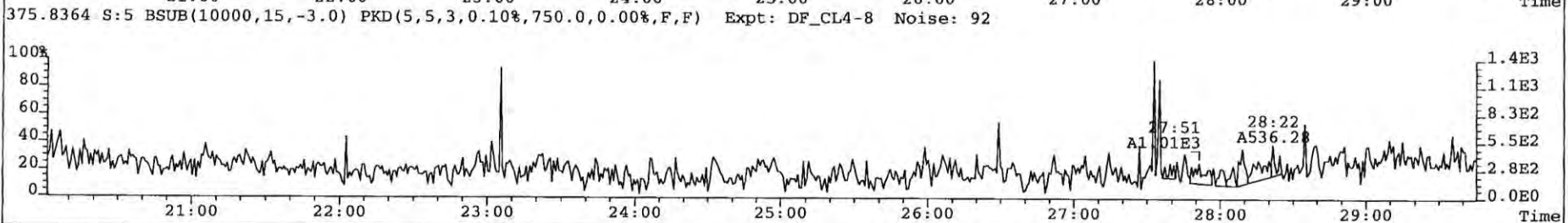
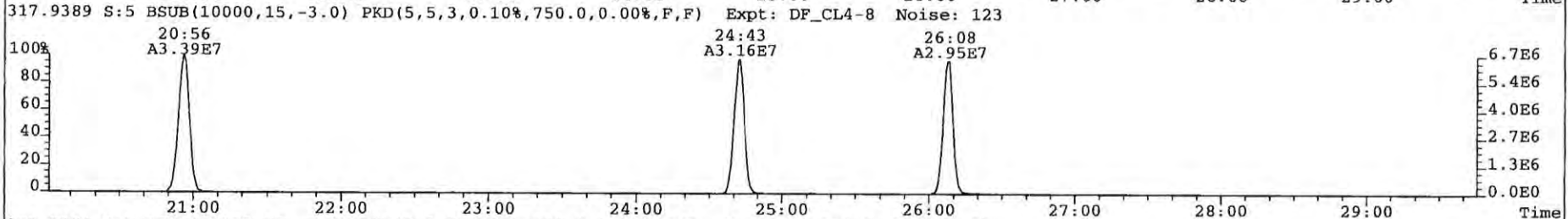
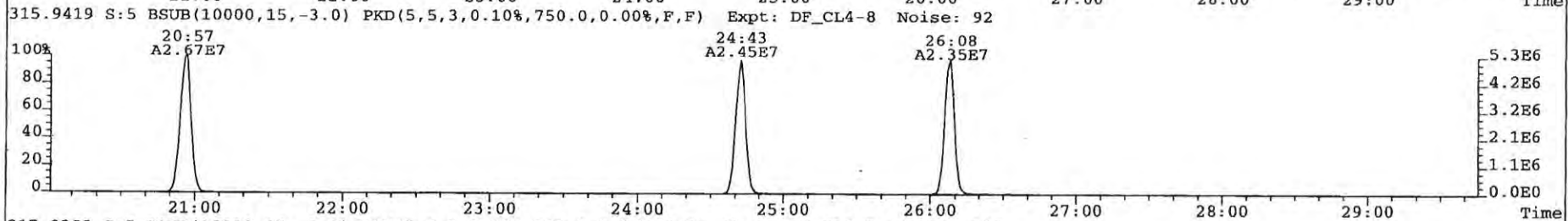
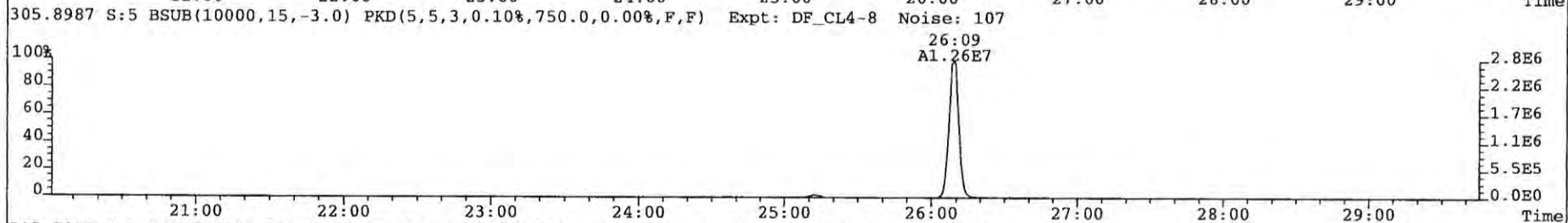
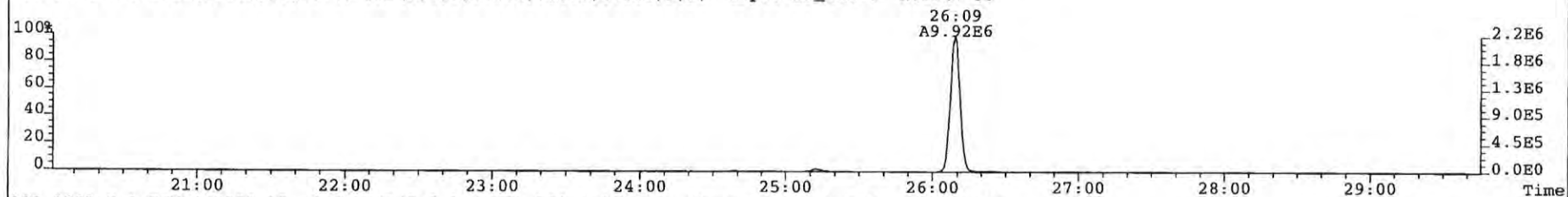
454.9728 S:5 F:5 Expt: DF_CL4-8



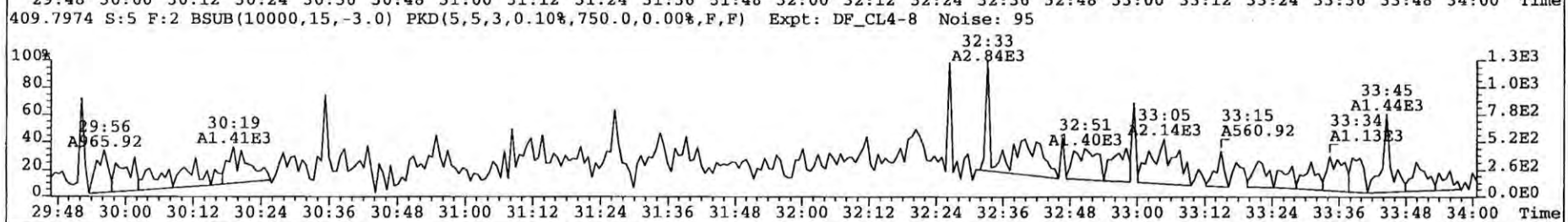
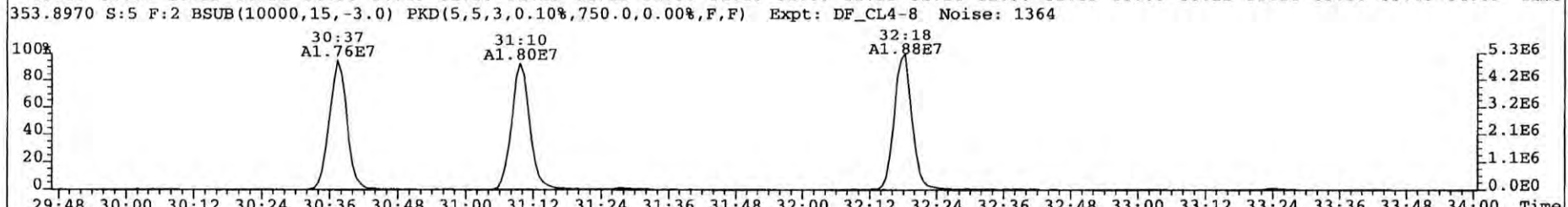
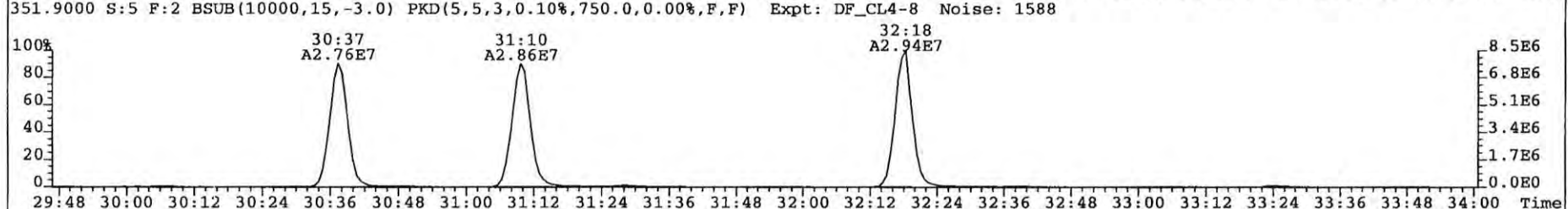
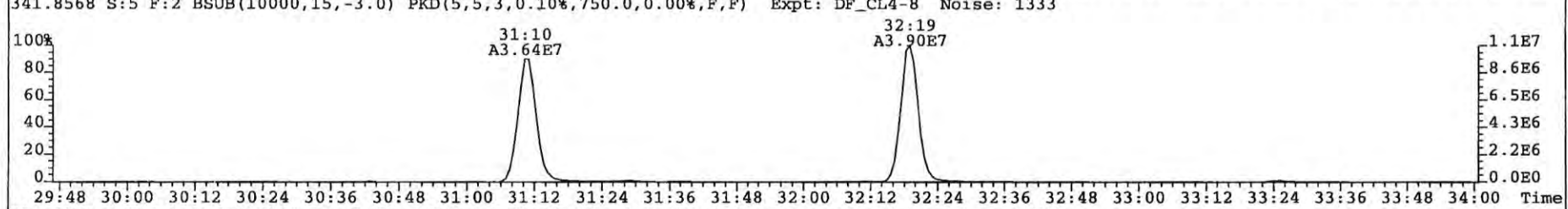
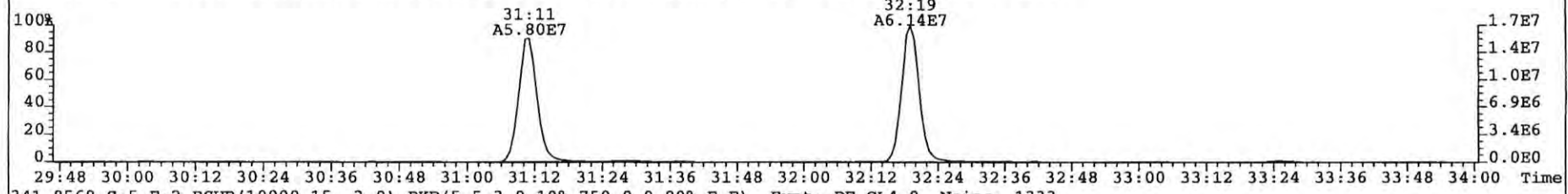
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5

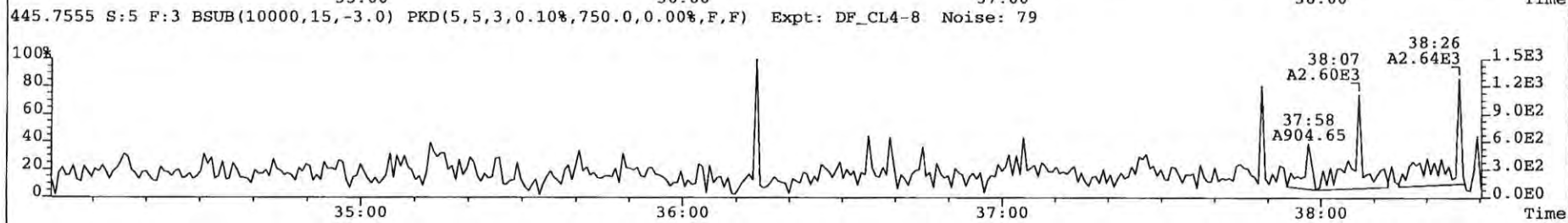
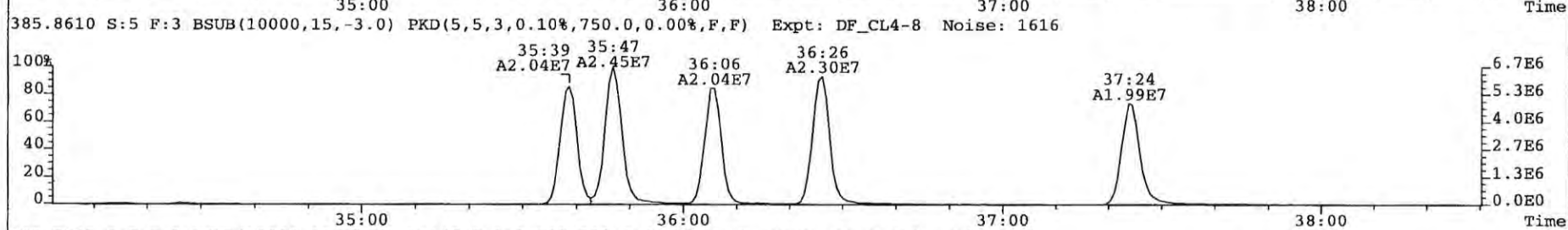
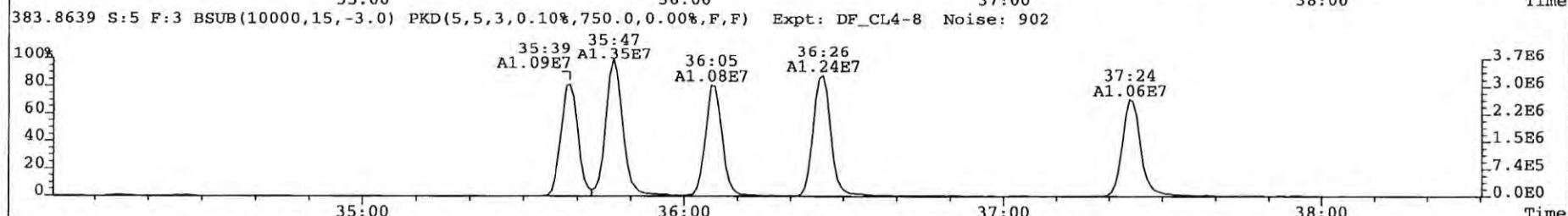
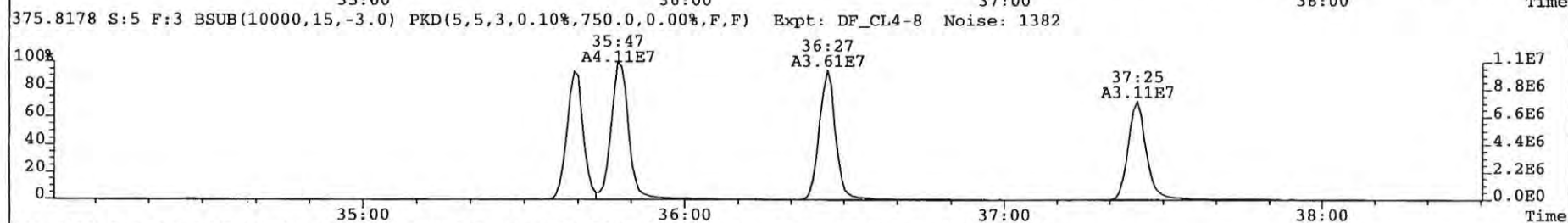
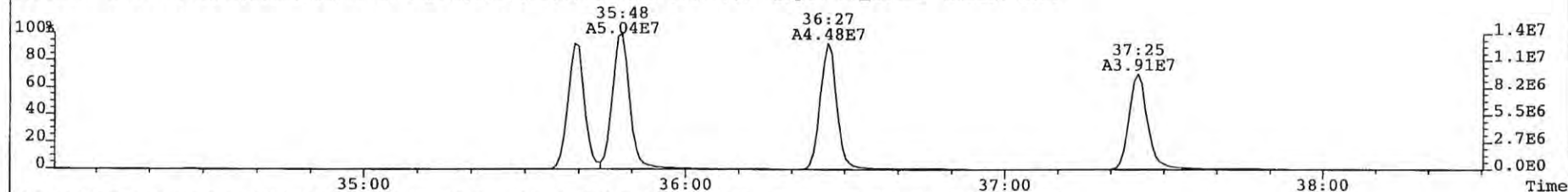
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 99



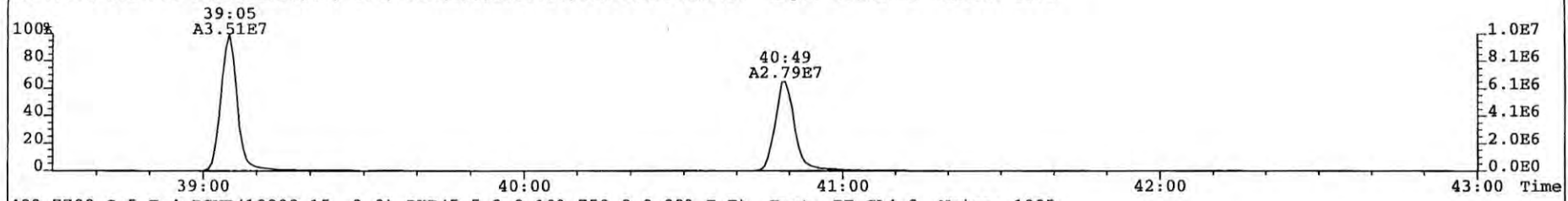
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1370



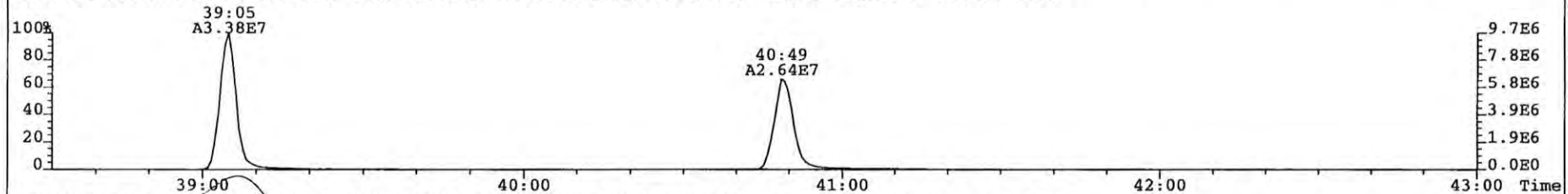
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1959



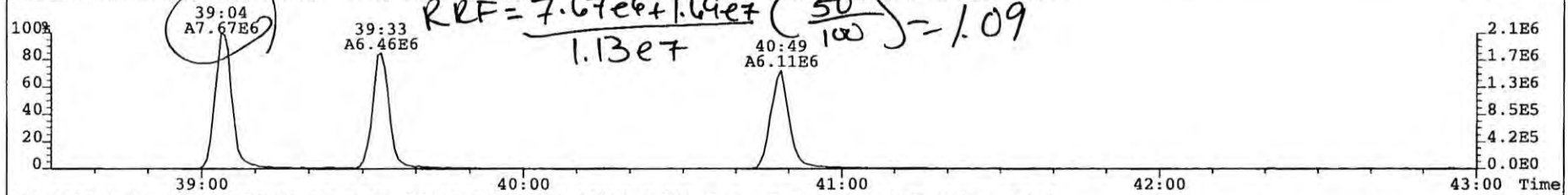
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
 407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1776



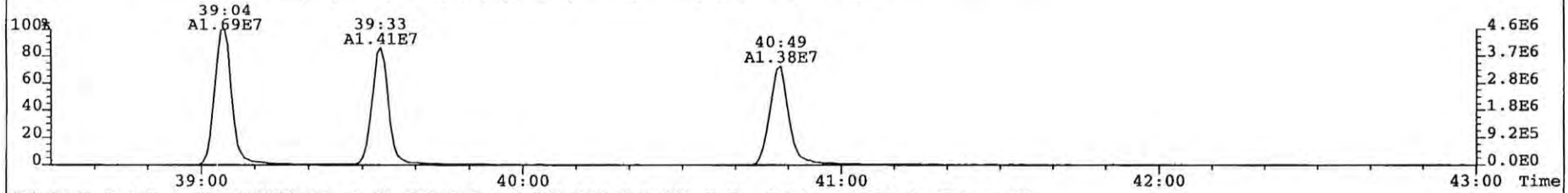
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1985



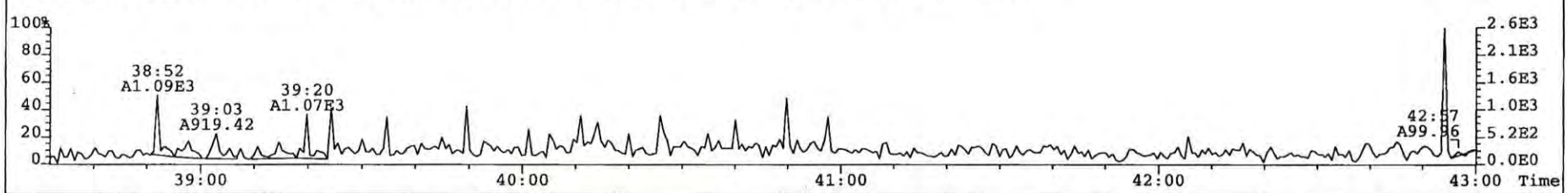
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1131



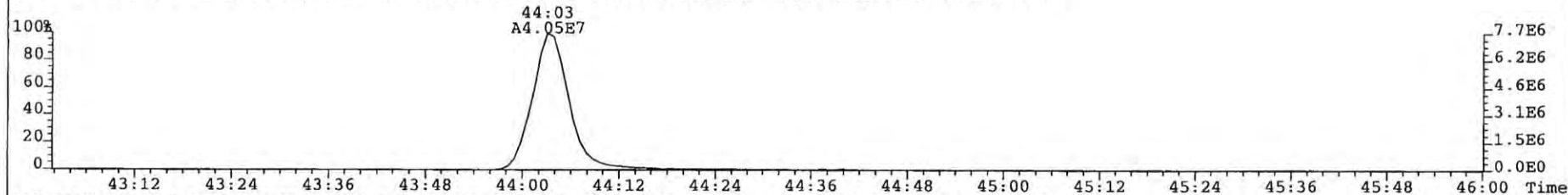
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2046



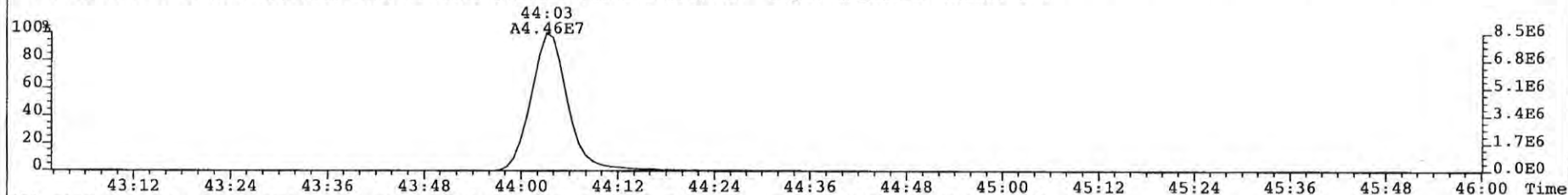
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 76



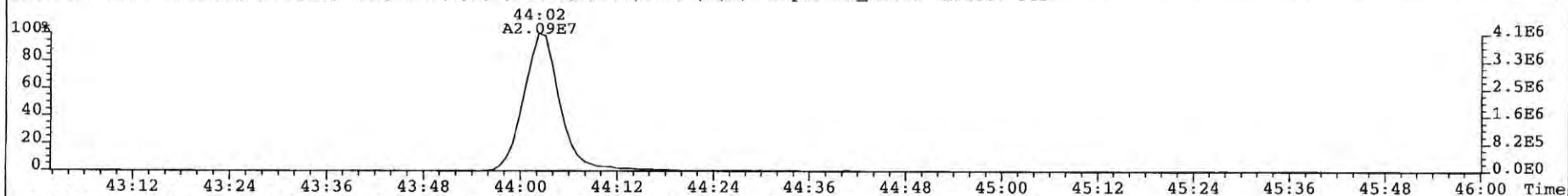
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 358



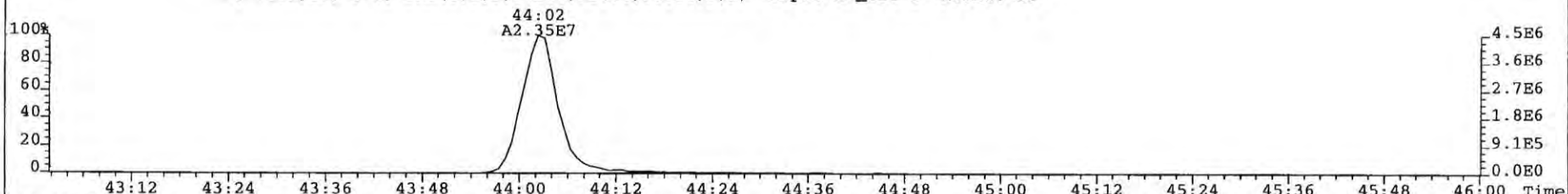
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 635



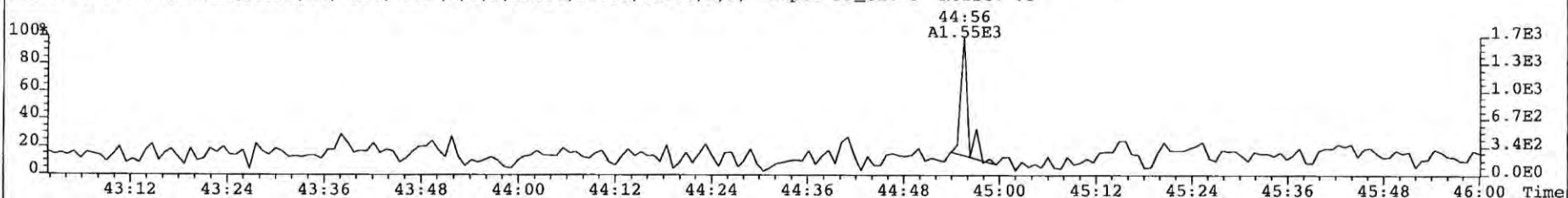
453.7830 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 345



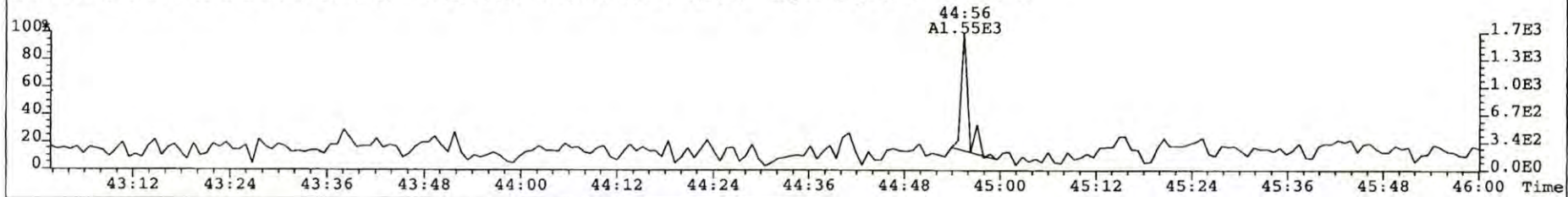
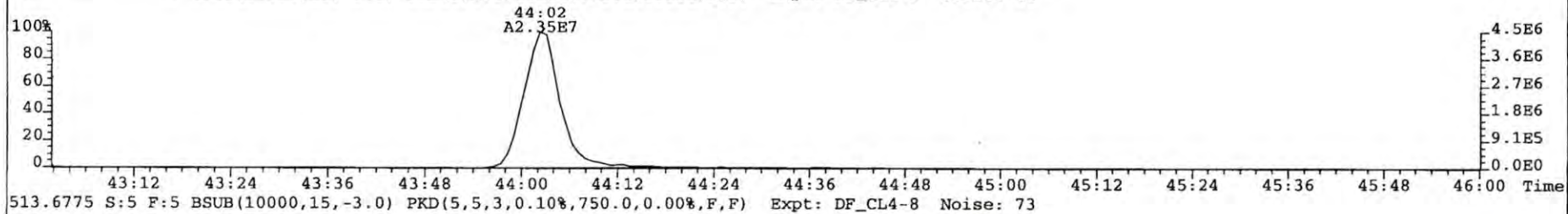
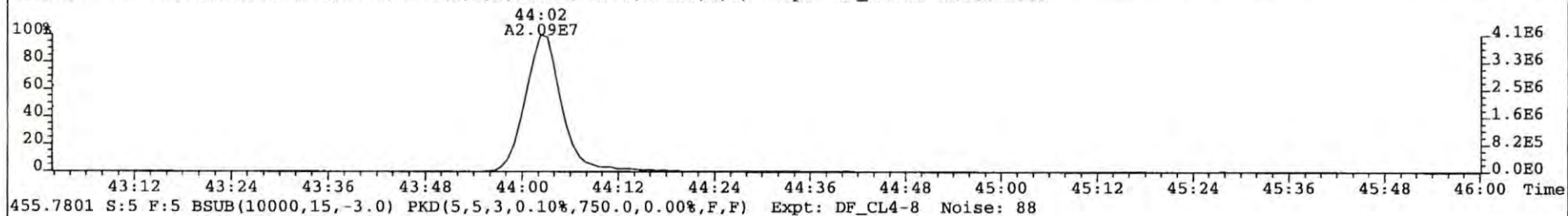
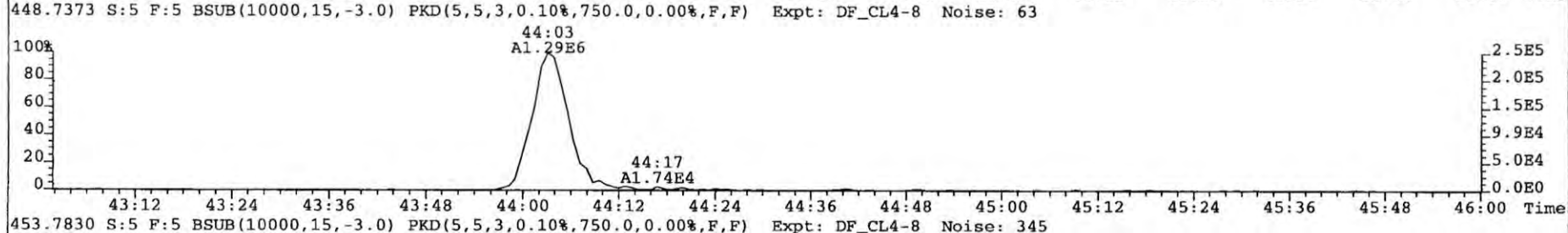
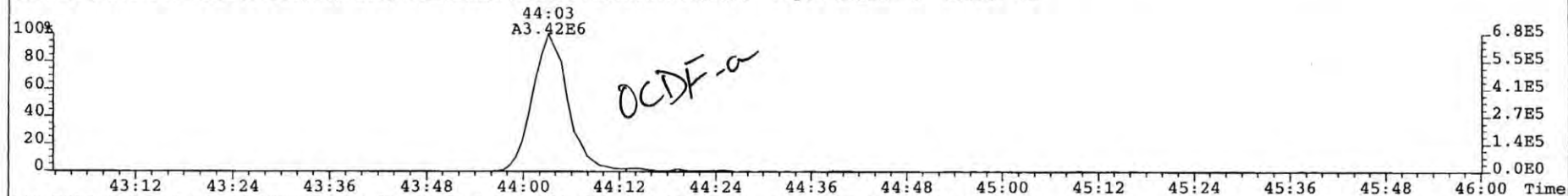
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 73



File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5
446.7402 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 71



TM 30 Dec 08

Calibration Summary Analytical Perspectives [Form: CAL]

Client ID: NEW ICAL CS5 ✓
 Lab ID: SIL7-25-2 ✓
 Sample text: SIL7-25-2 NEW ICAL CS5 ✓

Filename: 081225P1 S: 6 ✓
 GC Column ID: db-5 ICal: MM1_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Acq: 25-DEC-08 14:23:03 ✓
 Vial: 21

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax	2,3,7,8-TCDD	200.00	7.43e+07	0.79 y	27:05	-	1.12
2	Ax	1,2,3,7,8-PeCDD	1000.00	3.02e+08	1.60 y	32:41	-	1.03
3	Ax	1,2,3,4,7,8-HxCDD	1000.00	2.68e+08	1.26 y	36:38	-	1.12
4	Ax	1,2,3,6,7,8-HxCDD	1000.00	2.68e+08	1.26 y	36:45	-	0.97
5	Ax	1,2,3,7,8,9-HxCDD	1000.00	2.75e+08	1.26 y	37:03	-	1.02
6	Ax	1,2,3,4,6,7,8-HpCDD	1000.00	2.26e+08	1.06 y	40:15	-	1.01
7	Ax	OCDD	2000.00	3.48e+08	0.89 y	43:50	-	1.09
8	Ax2	OCDD-a	2000.00	2.06e+07	2.54 y	43:49	-	0.06
9	Ax	2,3,7,8-TCDF	200.00	1.03e+08	0.78 y	26:09	-	1.06
10	Ax	1,2,3,7,8-PeCDF	1000.00	4.77e+08	1.58 y	31:11	-	1.01
11	Ax	2,3,4,7,8-PeCDF	1000.00	5.01e+08	1.57 y	32:19	-	1.02
12	Ax	1,2,3,4,7,8-HxCDF	1000.00	4.09e+08	1.26 y	35:39	-	1.24
13	Ax	1,2,3,6,7,8-HxCDF	1000.00	4.80e+08	1.25 y	35:48	-	1.18
14	Ax	2,3,4,6,7,8-HxCDF	1000.00	4.15e+08	1.25 y	36:27	-	1.18
15	Ax	1,2,3,7,8,9-HxCDF	1000.00	3.66e+08	1.28 y	37:26	-	1.16
16	Ax	1,2,3,4,6,7,8-HpCDF	1000.00	3.75e+08	1.04 y	39:05	-	1.40
17	Ax	1,2,3,4,7,8,9-HpCDF	1000.00	2.94e+08	1.04 y	40:50	-	1.39
18	Ax	OCDF	2000.00	4.84e+08	0.91 y	44:04	-	0.95
19	Ax2	OCDF-a	2000.00	2.79e+07	2.68 y	44:04	-	0.05
20	ES	13C-2,3,7,8-TCDD	100.00	3.31e+07	0.82 y	27:04	-	1.05
21	ES	13C-1,2,3,7,8-PeCDD	100.00	2.94e+07	1.65 y	32:40	-	0.93
22	ES	13C-1,2,3,4,7,8-HxCDD	100.00	2.39e+07	1.29 y	36:37	-	1.20
23	ES	13C-1,2,3,6,7,8-HxCDD	100.00	2.75e+07	1.28 y	36:44	-	1.38
24	ES	13C-1,2,3,7,8,9-HxCDD	100.00	2.71e+07	1.28 y	37:02	-	1.36
25	ES	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.24e+07	1.09 y	40:14	-	1.12
26	ES	13C-OCDD	200.00	3.18e+07	0.86 y	43:49	-	0.80
27	ES	13C-2,3,7,8-TCDF	100.00	4.83e+07	0.80 y	26:08	-	0.99
28	ES	13C-1,2,3,7,8-PeCDF	100.00	4.72e+07	1.59 y	31:10	-	0.97
29	ES	13C-2,3,4,7,8-PeCDF	100.00	4.90e+07	1.55 y	32:18	-	1.01
30	ES	13C-1,2,3,4,7,8-HxCDF	100.00	3.29e+07	0.54 y	35:38	-	1.65
31	ES	13C-1,2,3,6,7,8-HxCDF	100.00	4.07e+07	0.54 y	35:47	-	2.04
32	ES	13C-2,3,4,6,7,8-HxCDF	100.00	3.52e+07	0.54 y	36:26	-	1.76
33	ES	13C-1,2,3,7,8,9-HxCDF	100.00	3.15e+07	0.53 y	37:24	-	1.58
34	ES	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.68e+07	0.45 y	39:04	-	1.34
35	ES	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.12e+07	0.46 y	40:48	-	1.06
36	ES	13C-OCDF	200.00	5.11e+07	0.90 y	44:03	-	1.28
37	CS	37C1-2,3,7,8-TCDD	200.00	6.73e+07		27:05	-	1.07
38	CS	13C-1,2,3,4,7-PeCDD	100.00	2.50e+07	1.69 y	32:09	-	0.79
39	CS	13C-1,2,3,4,6-PeCDF	100.00	4.06e+07	1.57 y	30:37	-	0.83
40	CS	13C-1,2,3,4,6,9-HxCDF	100.00	2.96e+07	0.53 y	36:05	-	1.48
41	CS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.89e+07	0.46 y	39:33	-	0.95
42	NA	n/a	100.00	*	* n	NotF>	-	*
43	JS/RT	13C-1,2,3,4-TCDD	100.00	3.16e+07	0.82 y	26:23	3.16e+05	-
44	JS	13C-1,2,3,4-TCDF	100.00	4.87e+07	0.79 y	24:42	4.87e+05	-
45	JS/RT	13C-1,2,3,4,6,7-HxCDD	50.00	9.98e+06	1.29 y	36:55	2.00e+05	-

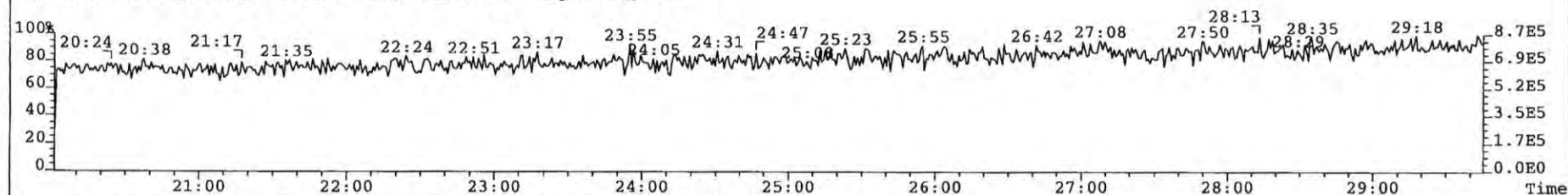
calc.

200pg/ml

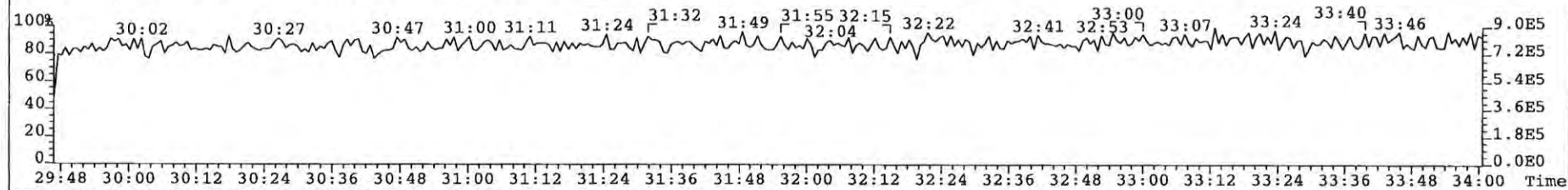
Analyst: *HY*
 Date: *25 Dec 08*

46	SS	37Cl-2,3,7,8-TCDD	200.00	6.73e+07		27:05	-	1.02 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.50e+07	1.69 y	32:09	-	0.85
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.06e+07	1.57 y	30:37	-	0.86 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	2.96e+07	0.53 y	36:05	-	0.73
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.89e+07	0.46 y	39:33	-	0.71 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.06 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.12 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.12
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.12
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.03
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.03 ✓
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.03
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	1.01
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.06
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.06
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.06
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.06 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.02
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.19
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.12
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.03
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.03
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	1.01
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.06
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.02
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.19
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.39
73	Tot	TCDD EMPC	-	-	- n	-	-	1.12
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.03
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.03
76	Tot	HpCDD EMPC	-	-	- n	-	-	1.01
77	Tot	TCDF EMPC	-	-	- n	-	-	1.06
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.02
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.19
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.39
81	AS	13C-1,3,6,8-TCDD	100.00	3.41e+07	0.83 y	23:08	-	1.08 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	5.25e+07	0.79 y	20:56	-	1.08
83	DPE	HxCDPE	-	1.15e+04		22:41	-	-
84	DPE	HpCDPE	-	*		NotF>	-	-
85	DPE	OCDF	-	*		NotF>	-	-
86	DPE	NCDPE	-	2.09e+04		39:22	-	-
87	DPE	DCDF	-	*		NotF>	-	-
88	LMC	Fn1 check mass	-	*		NotF>	-	-
89	LMC	Fn2 check mass	-	*		NotF>	-	-
90	LMC	Fn3 check mass	-	*		NotF>	-	-
91	LMC	Fn4 check mass	-	*		NotF>	-	-
92	LMC	Fn5 check mass	-	*		NotF>	-	-

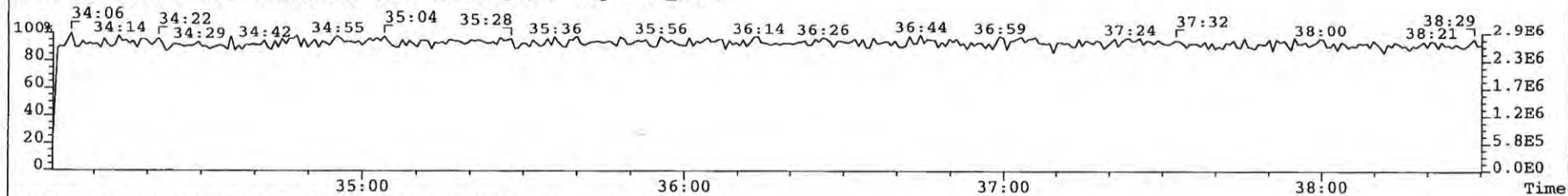
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



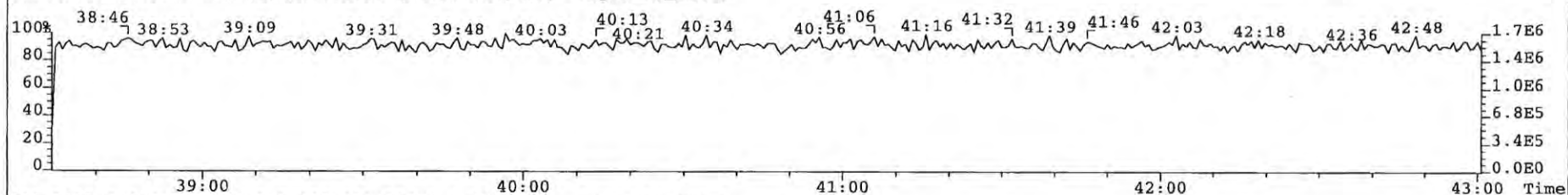
366.9792 S:6 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



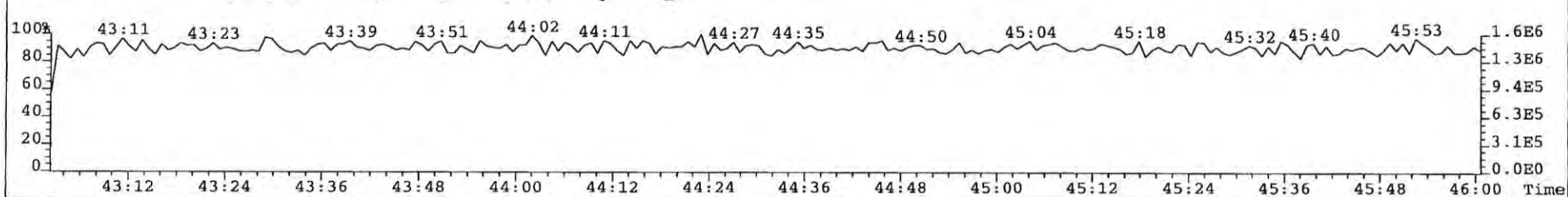
380.9760 S:6 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



430.9728 S:6 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8

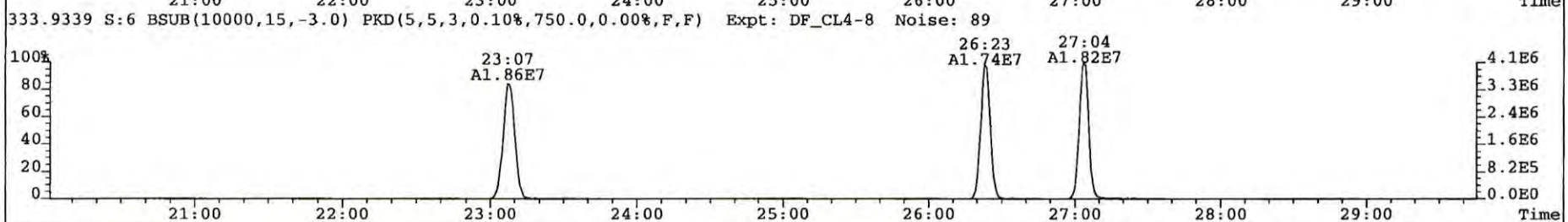
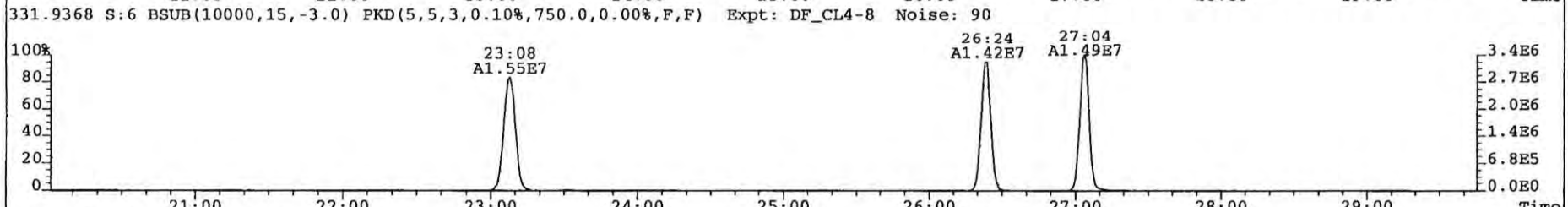
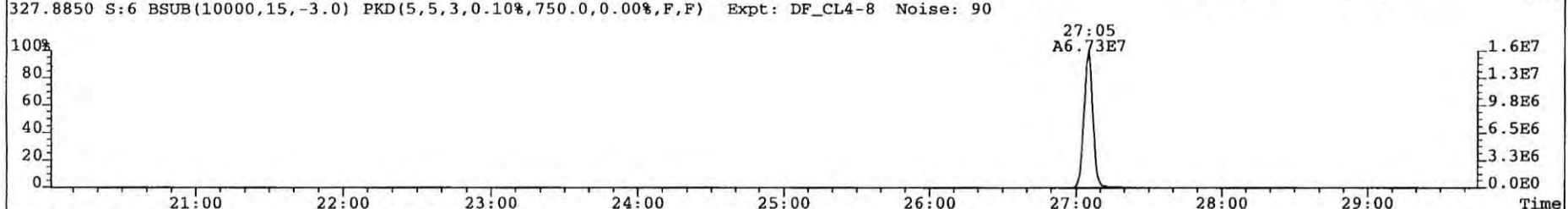
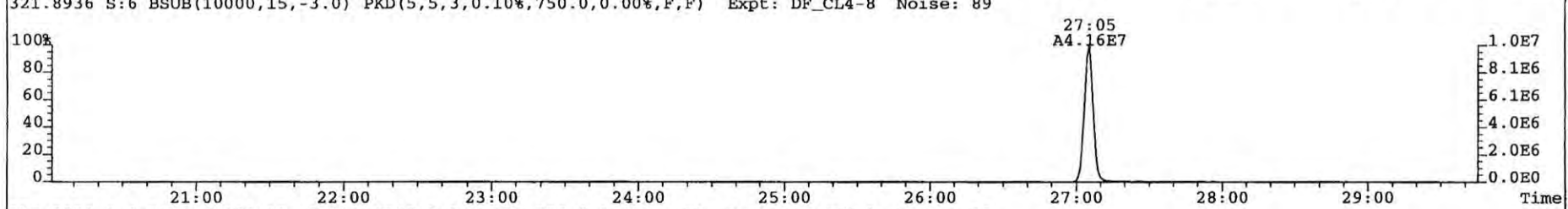
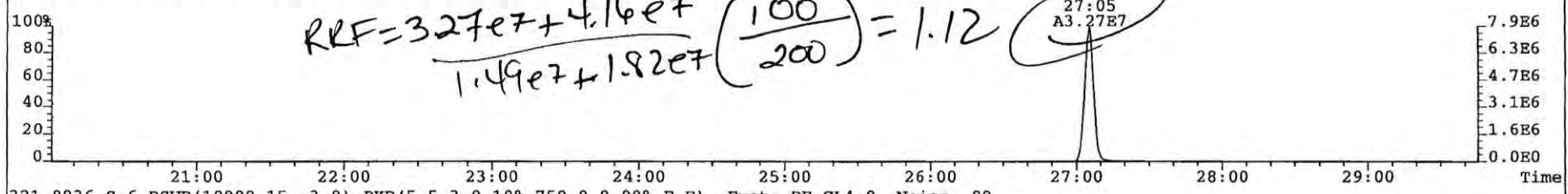


454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
 319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78

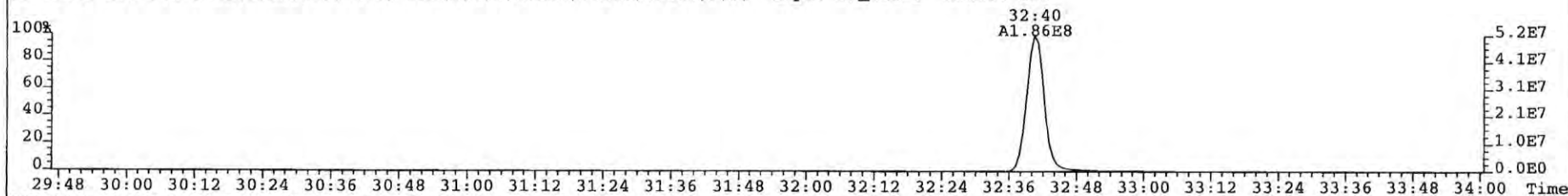
$$RRF = \frac{3.27e7 + 4.16e7}{1.49e7 + 1.82e7} \left(\frac{100}{200} \right) = 1.12$$



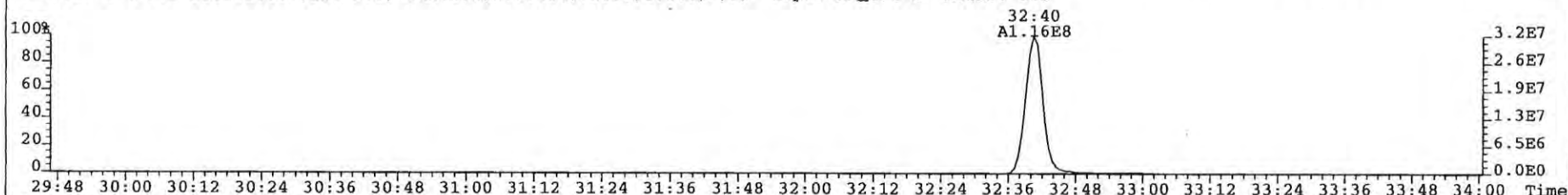
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5

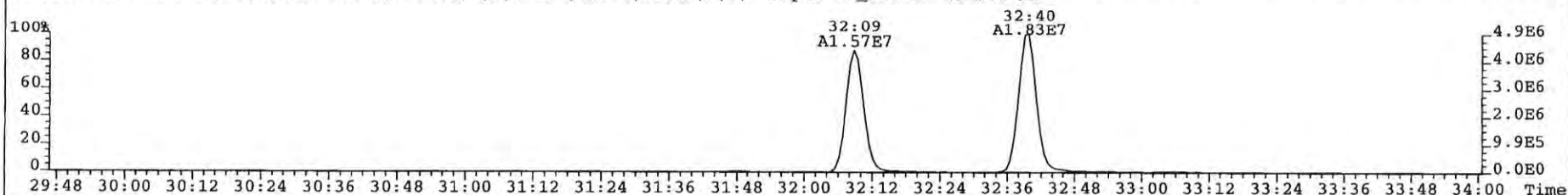
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 131



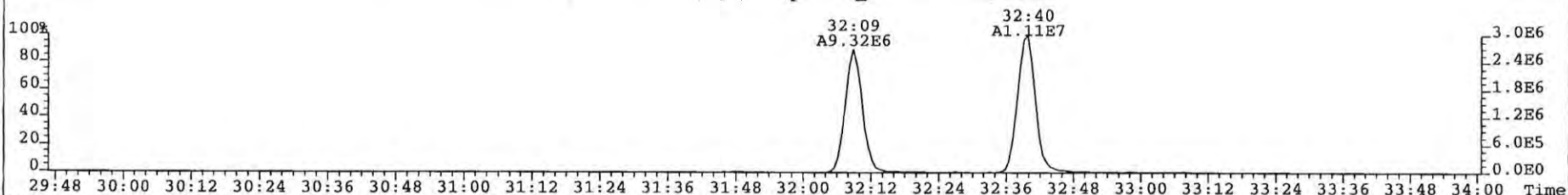
357.8517 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 148



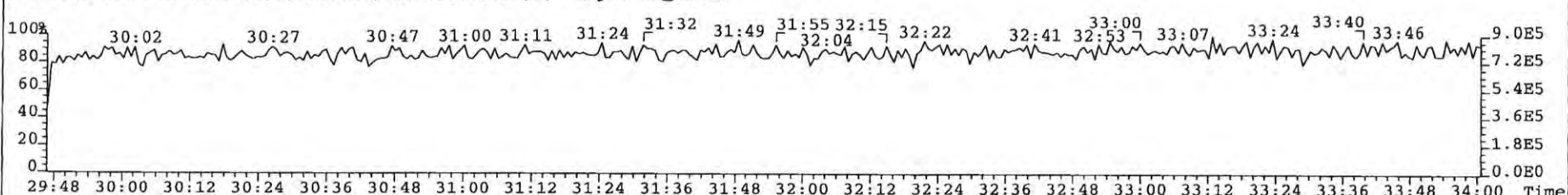
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 92



369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 85



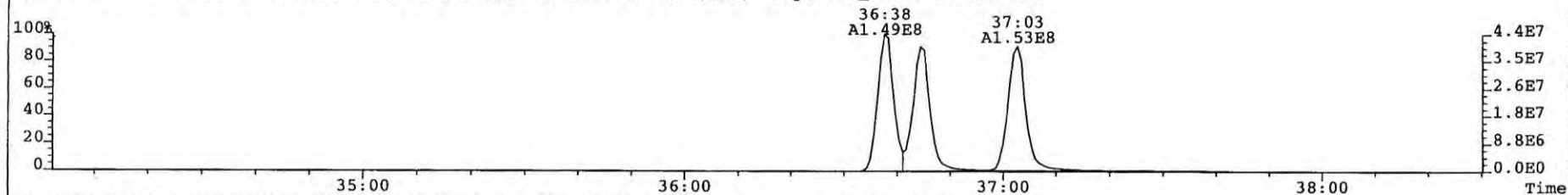
366.9792 S:6 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



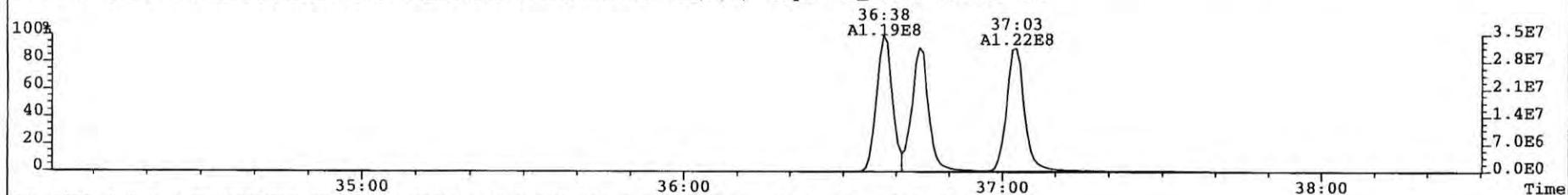
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5

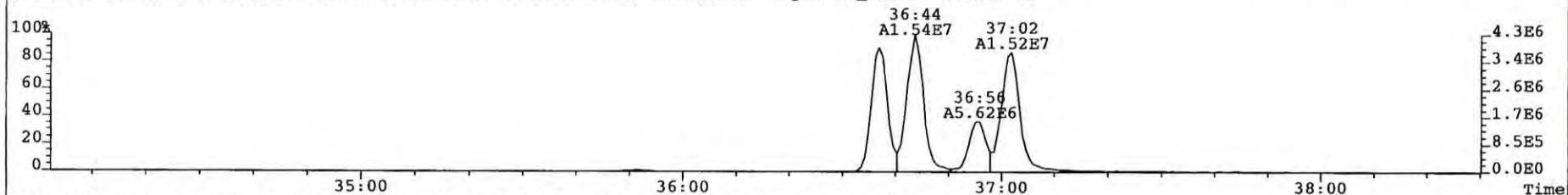
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 340



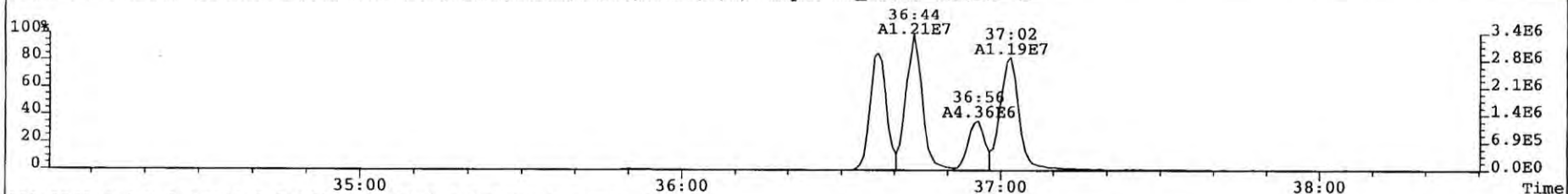
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 102



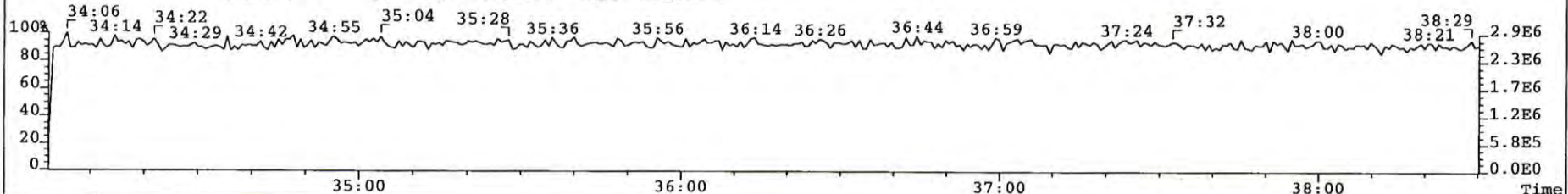
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 89



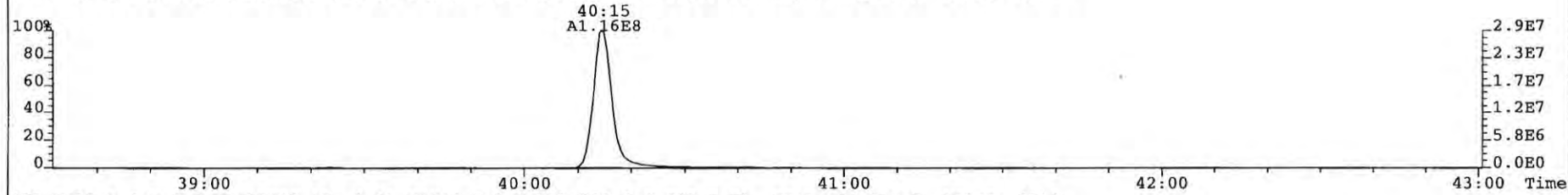
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 80



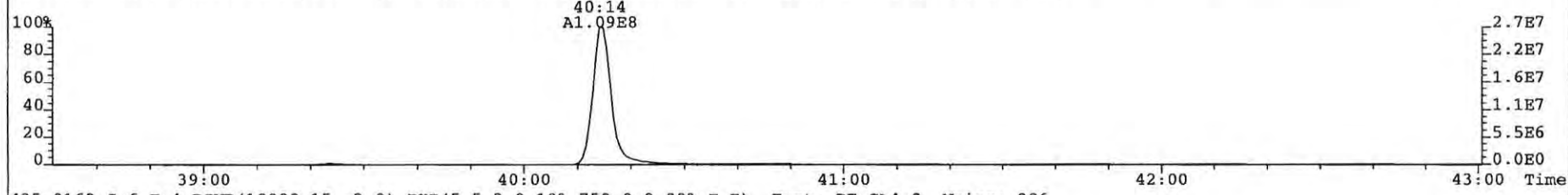
380.9760 S:6 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



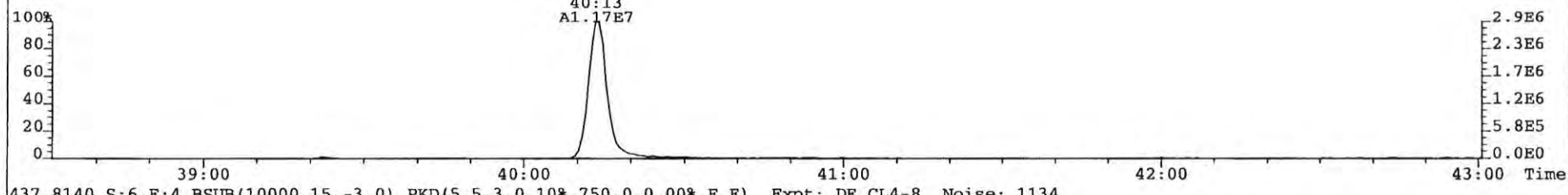
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
423.7767 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 4249



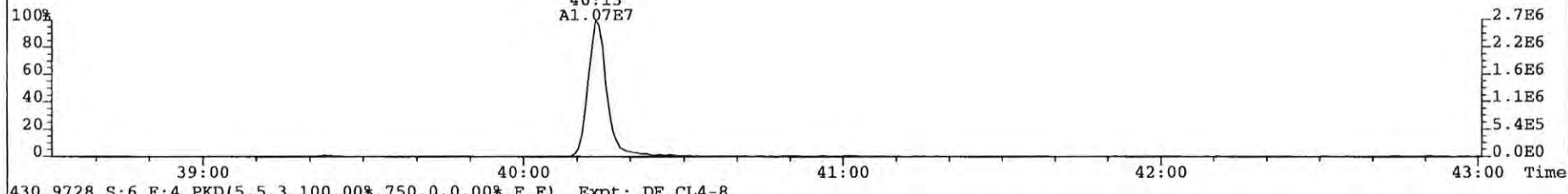
425.7737 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 4534



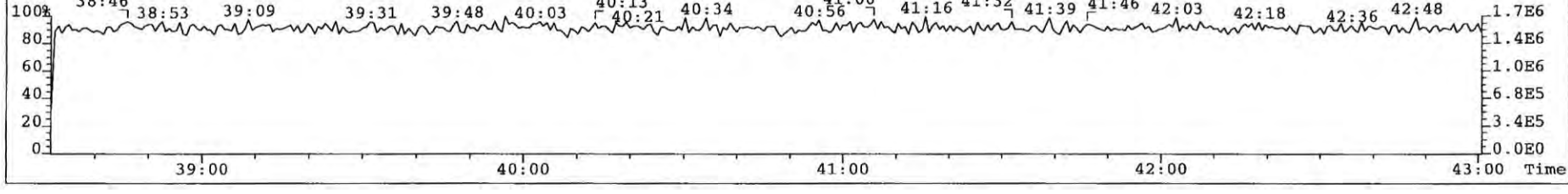
435.8169 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 906



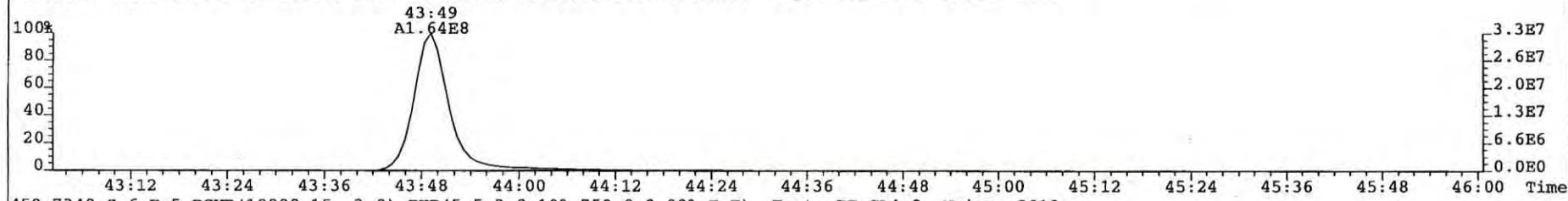
437.8140 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1134



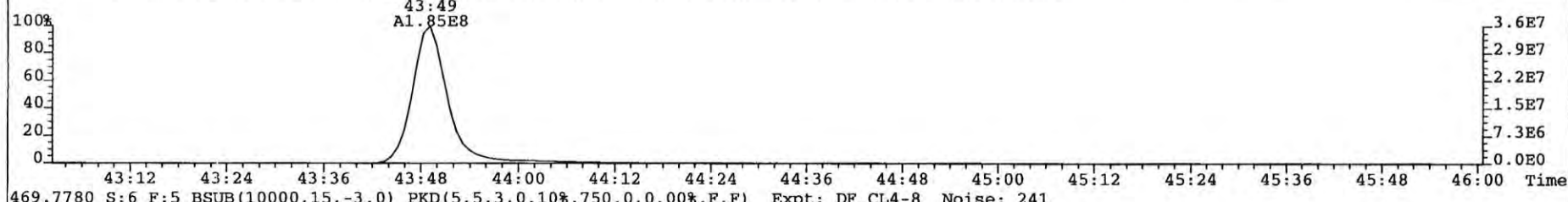
430.9728 S:6 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



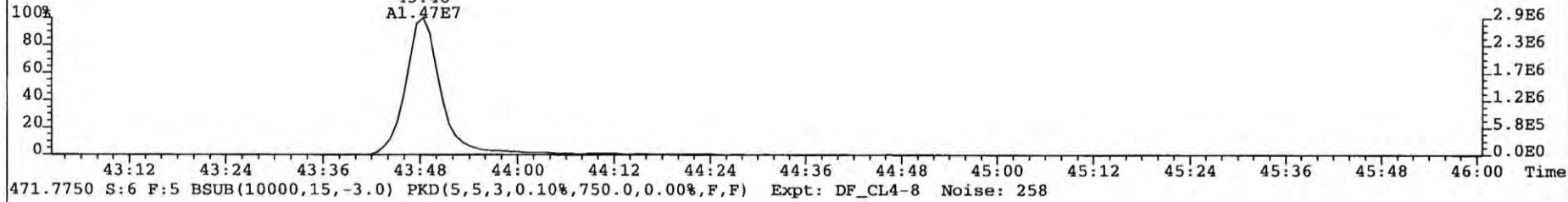
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1711



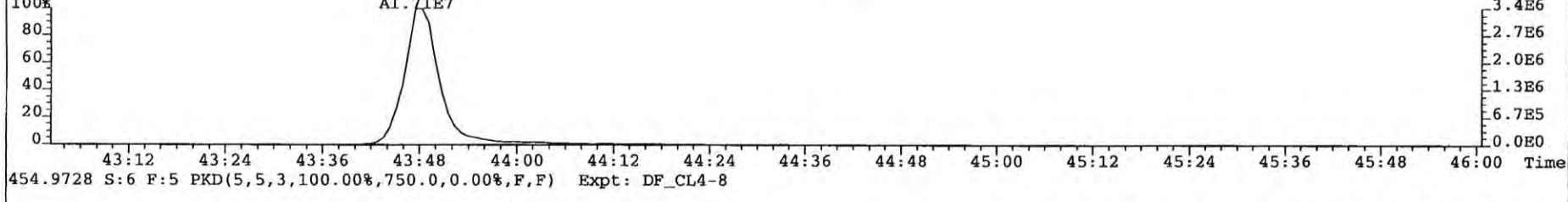
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2019



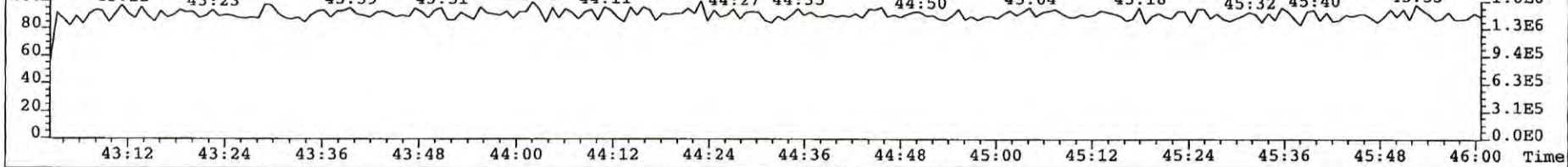
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 241



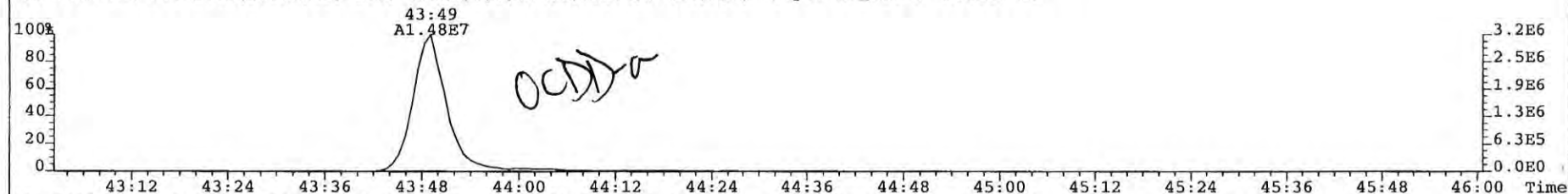
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 258



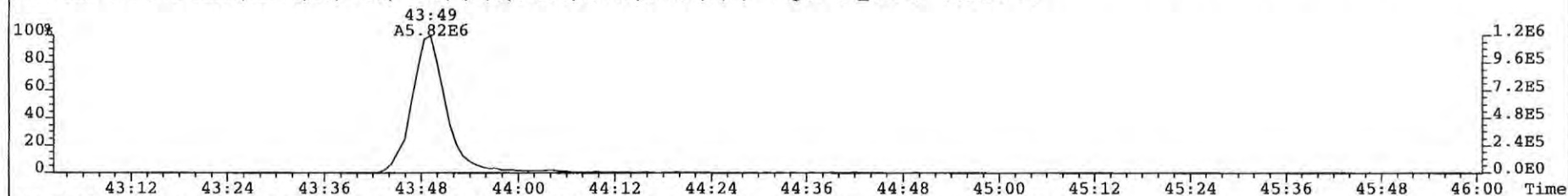
454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



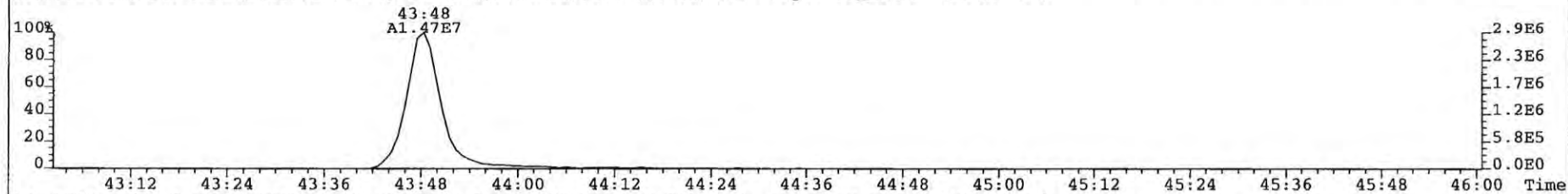
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
462.7352 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 88



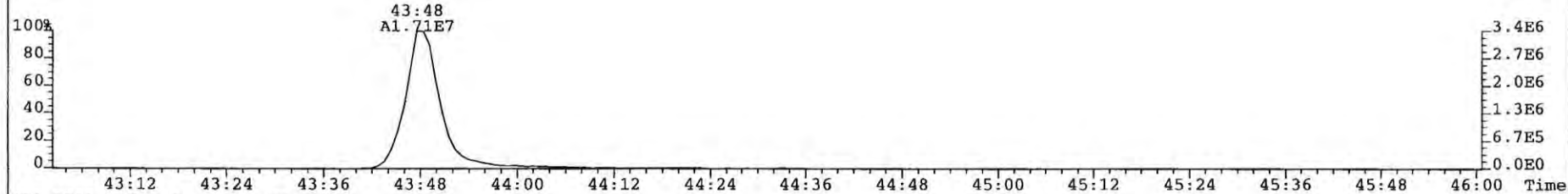
464.7322 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 78



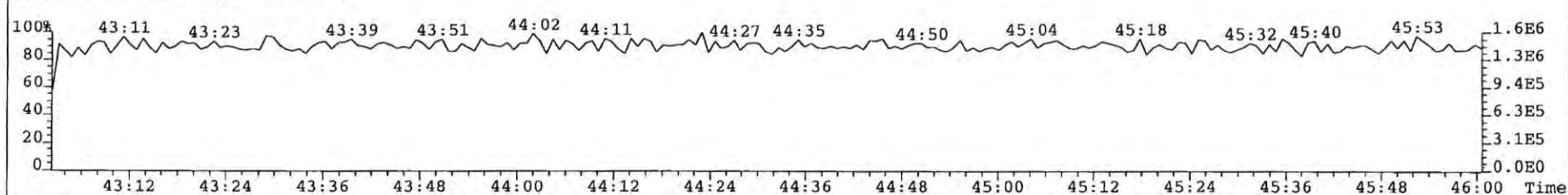
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 241



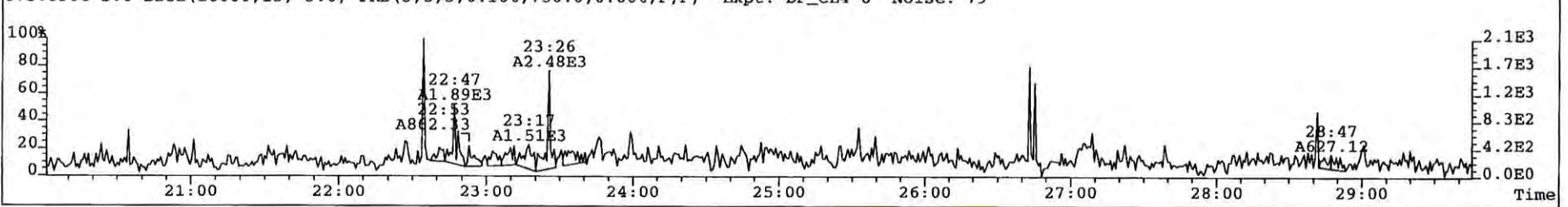
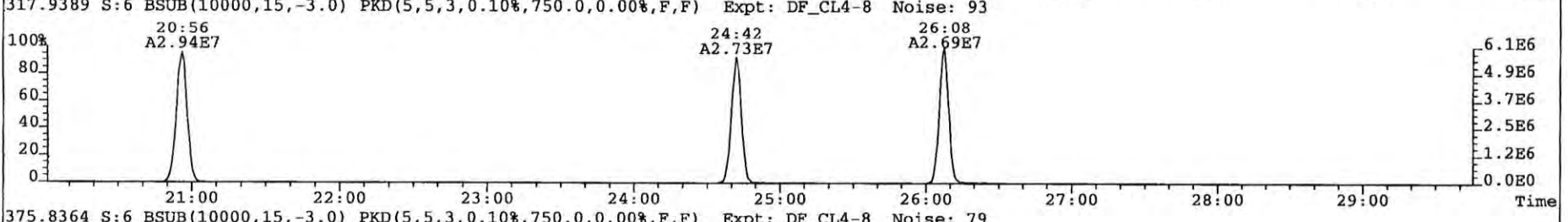
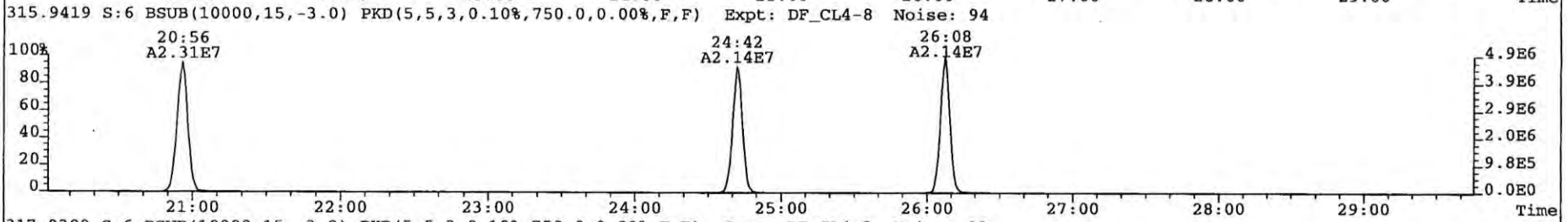
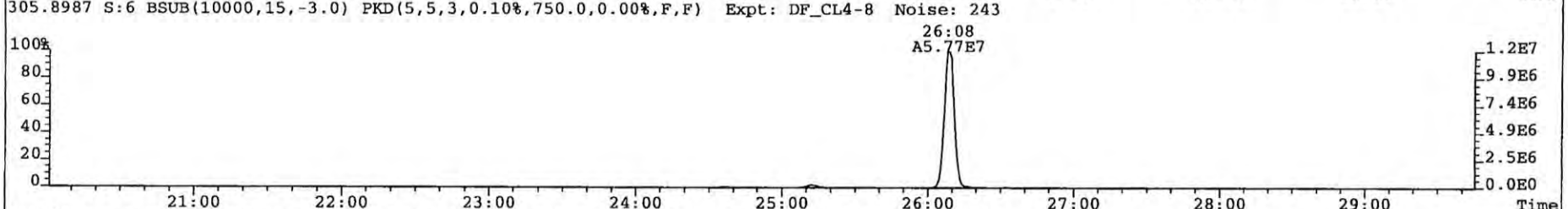
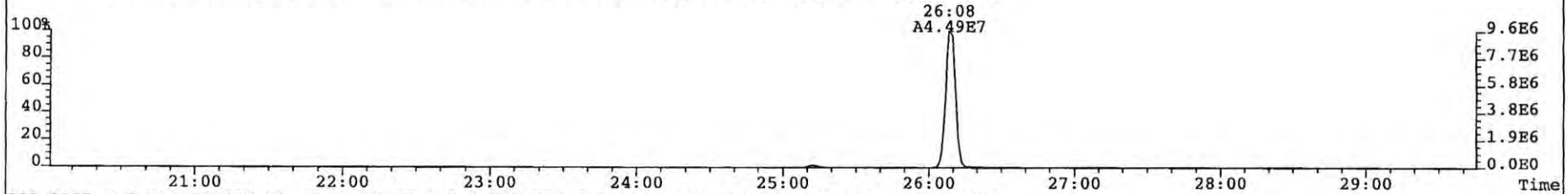
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 258



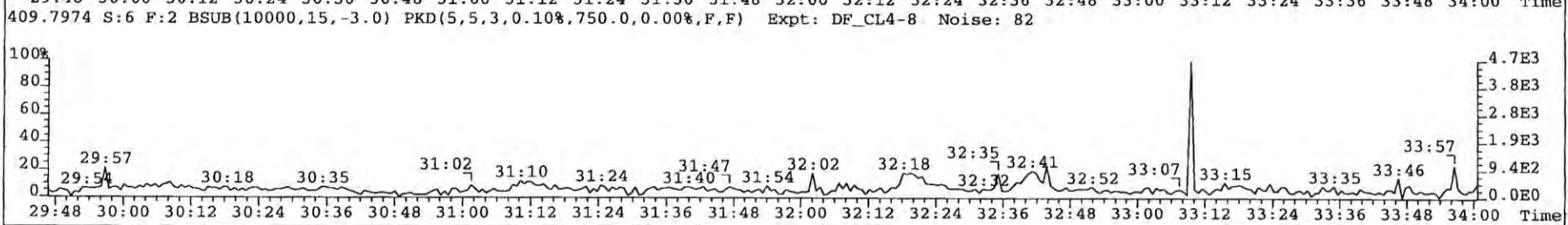
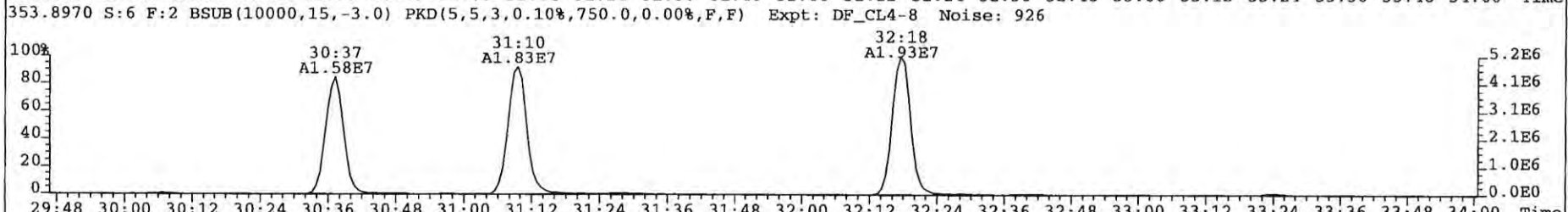
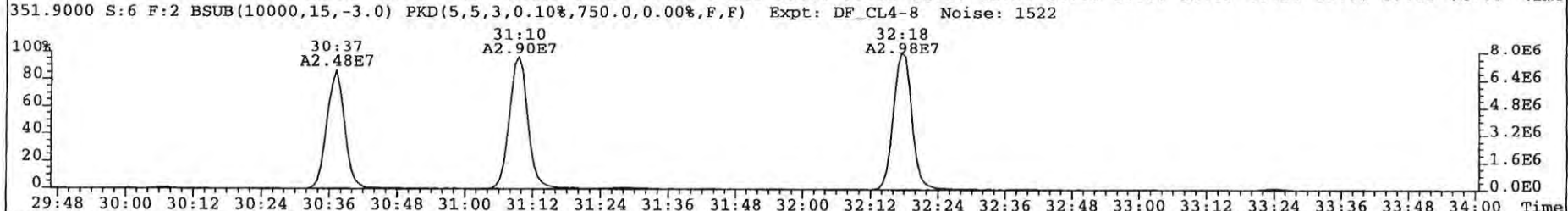
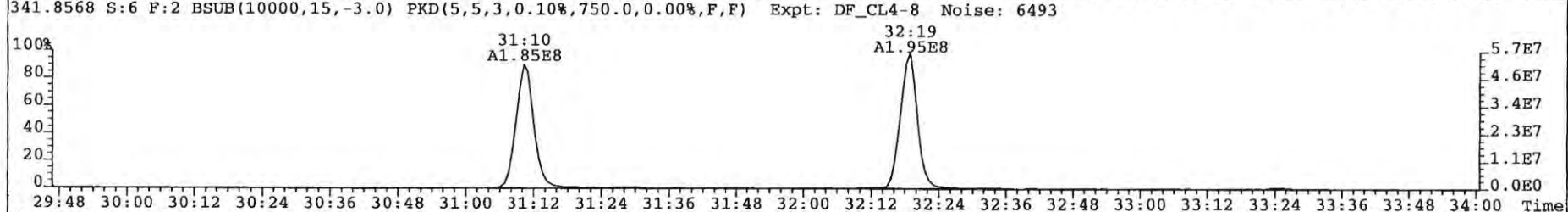
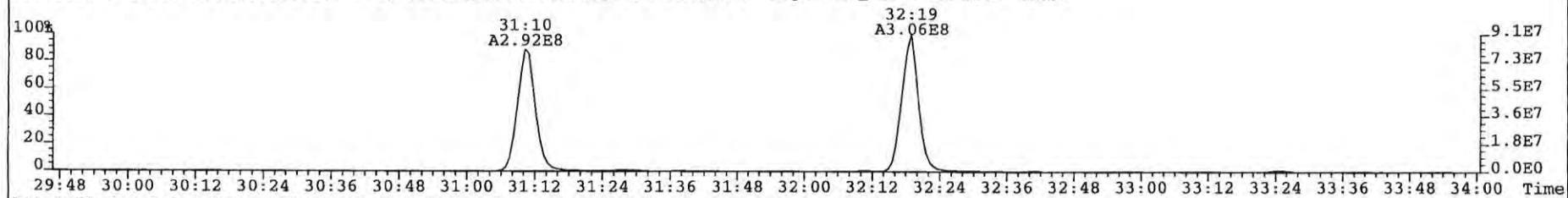
454.9728 S:6 F:5 Expt: DF_CL4-8



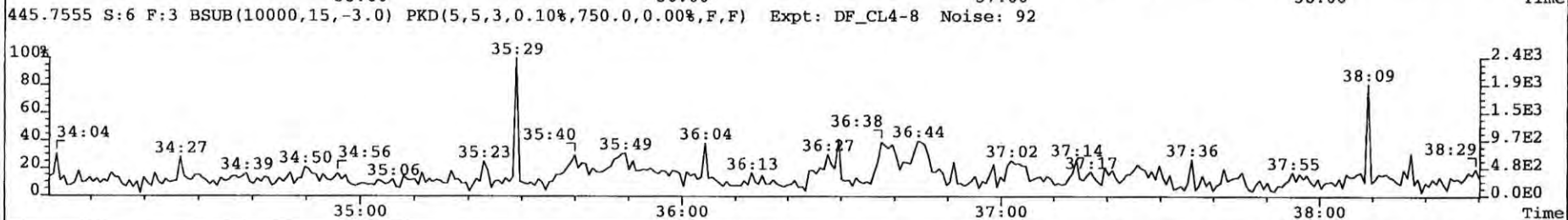
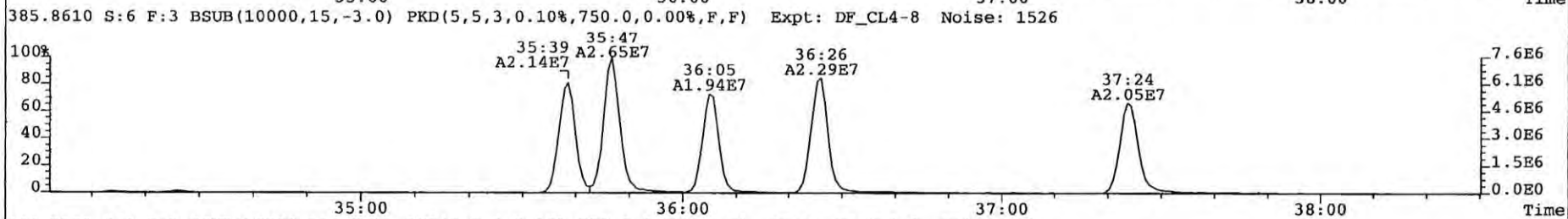
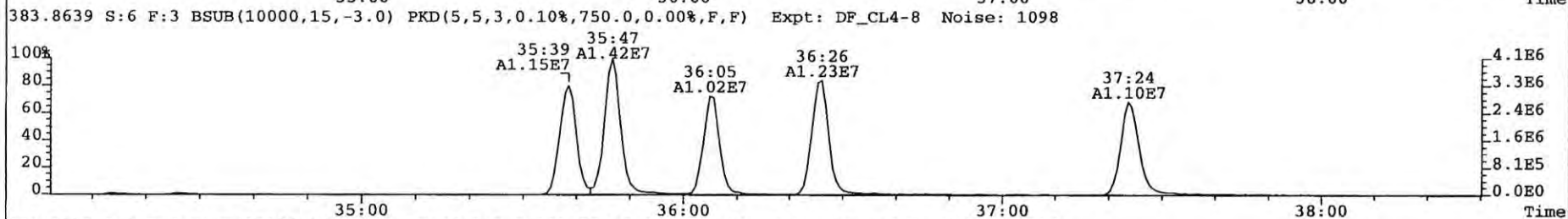
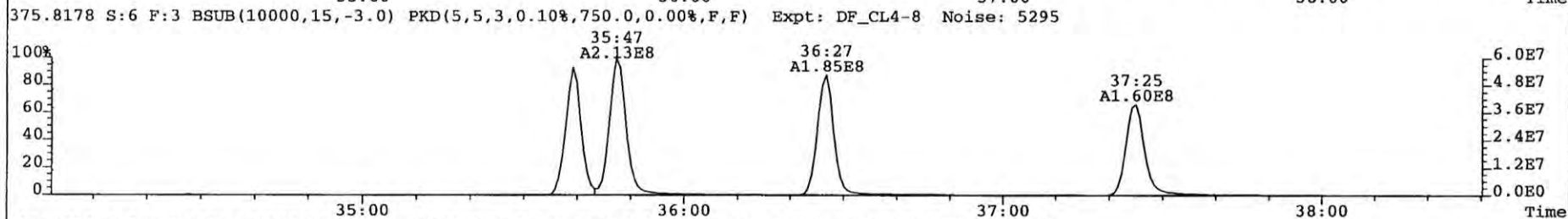
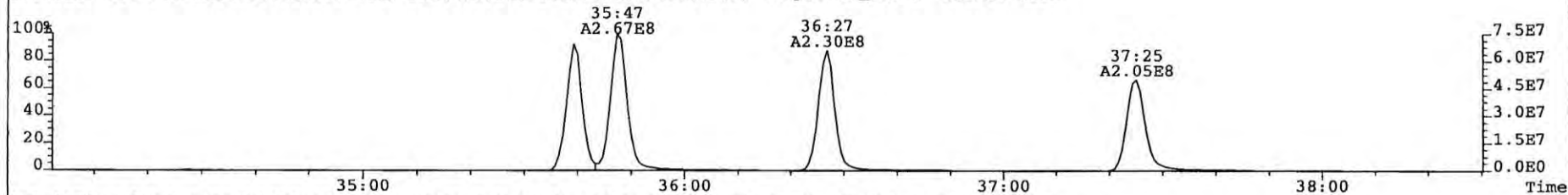
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 216



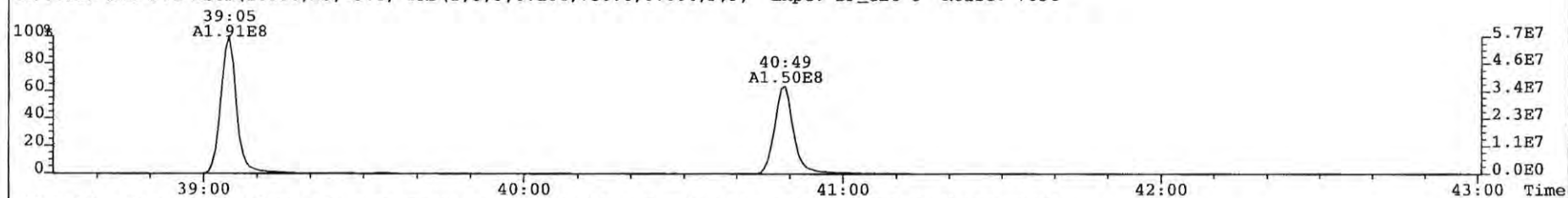
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 10465



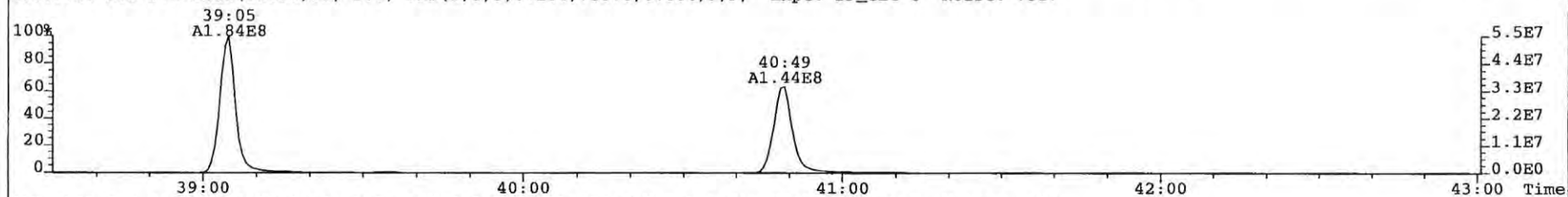
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 6804



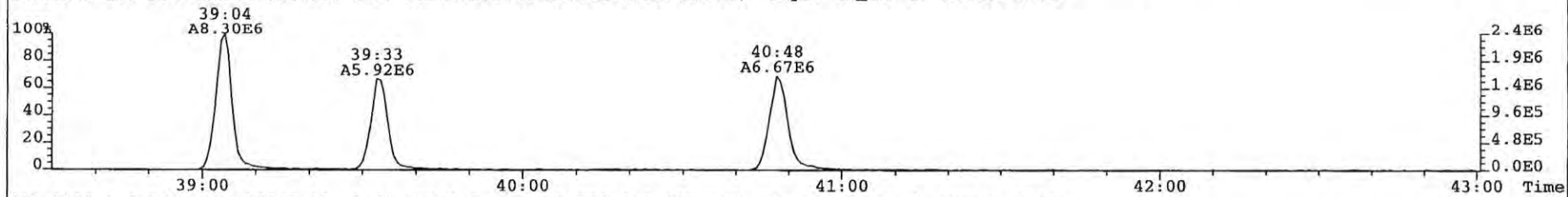
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 7054



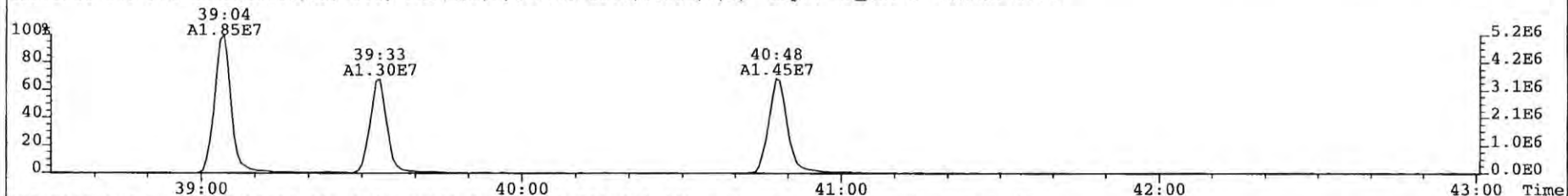
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 7317



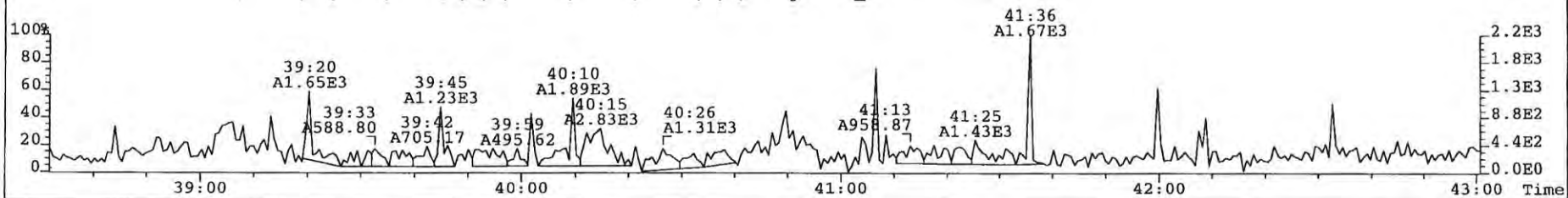
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1194



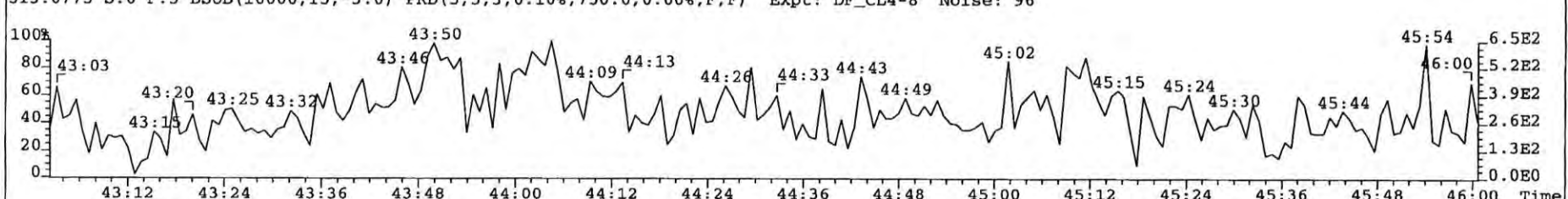
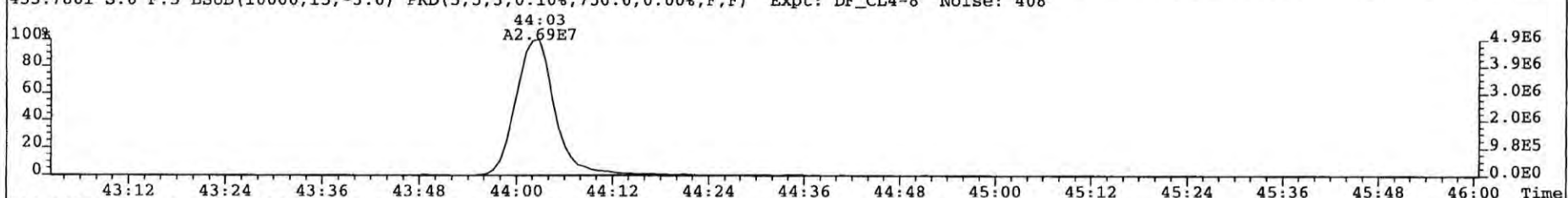
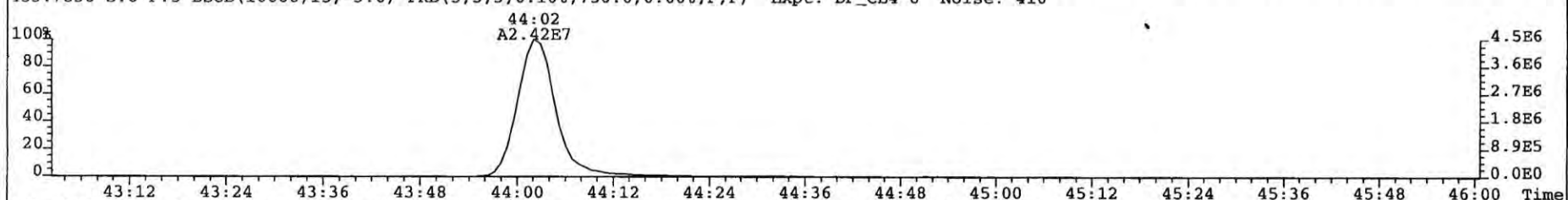
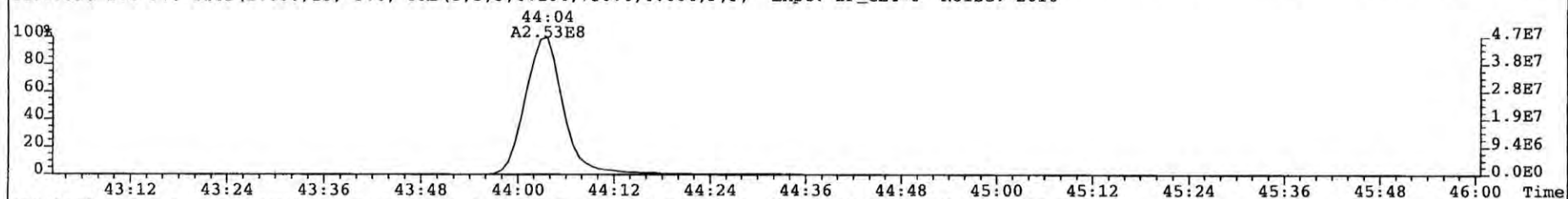
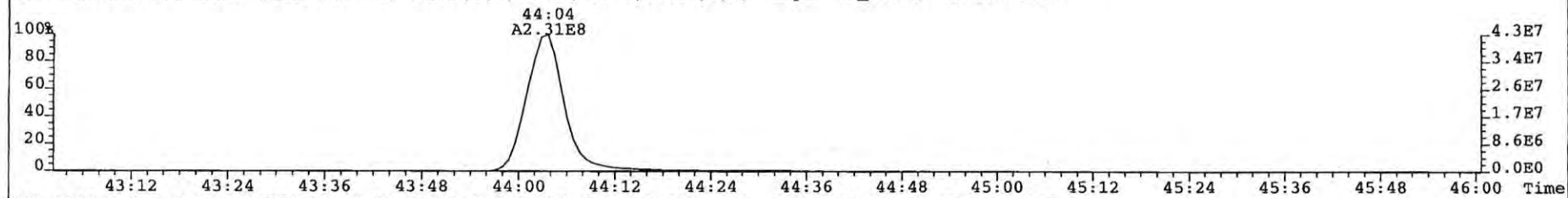
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2104



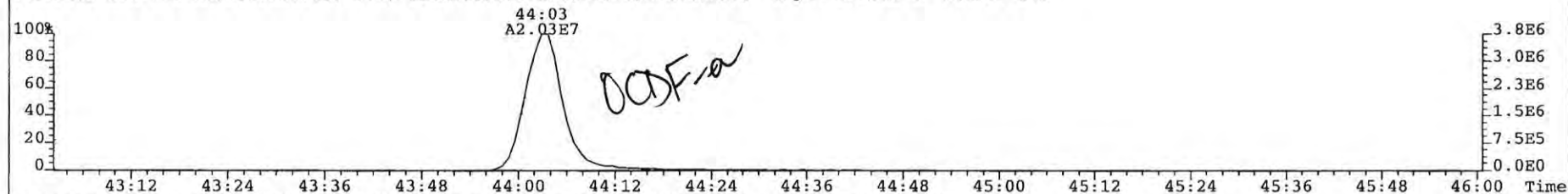
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 91



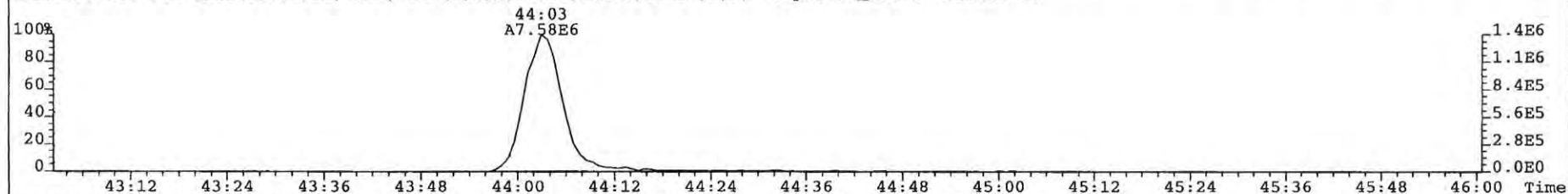
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 2530



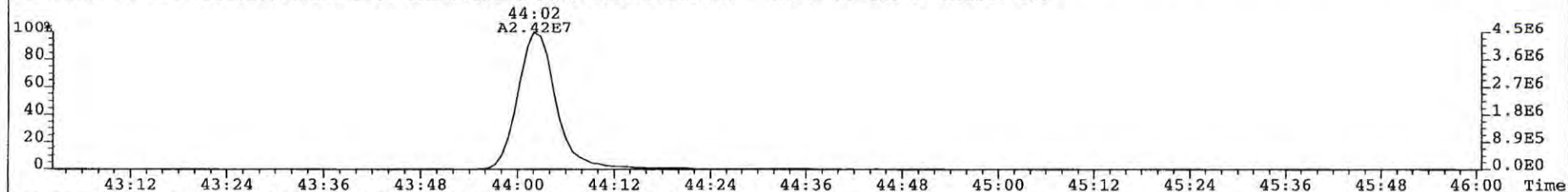
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5
446.7402 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 270



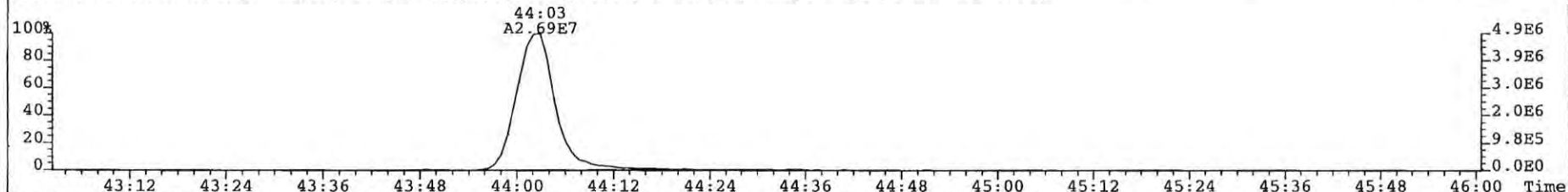
448.7373 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 99



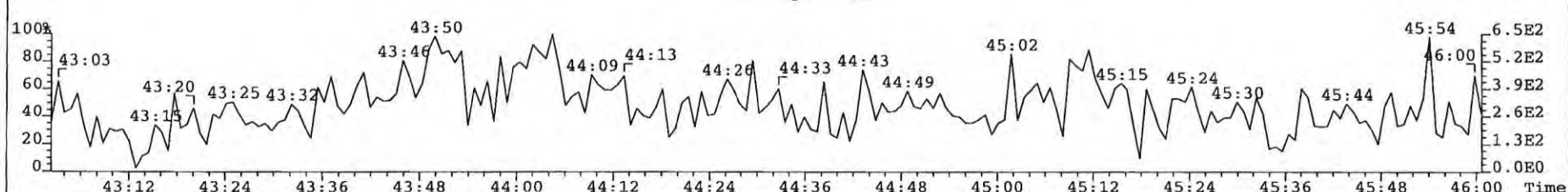
453.7830 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 410



455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 408



513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 96



pm 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW STDS CS6 ✓
 Lab ID: SIL7-25-1
 Sample text: SIL7-25-1 NEW STDS CS6

Filename: 081225P1
 GC Column ID: db-5

S: 7 ✓ Acq: 25-DEC-08 15:13:12
 ICal: MMI_DF_07012007A_25DEC08 Wt/Vol: 1.000
 Vial: 22

500pg/ml

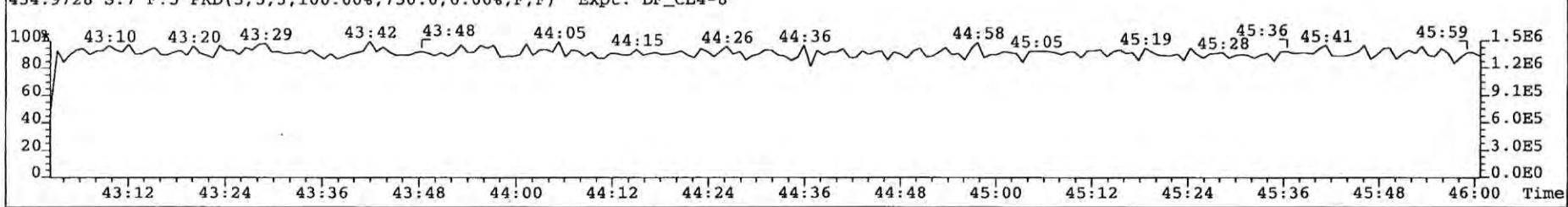
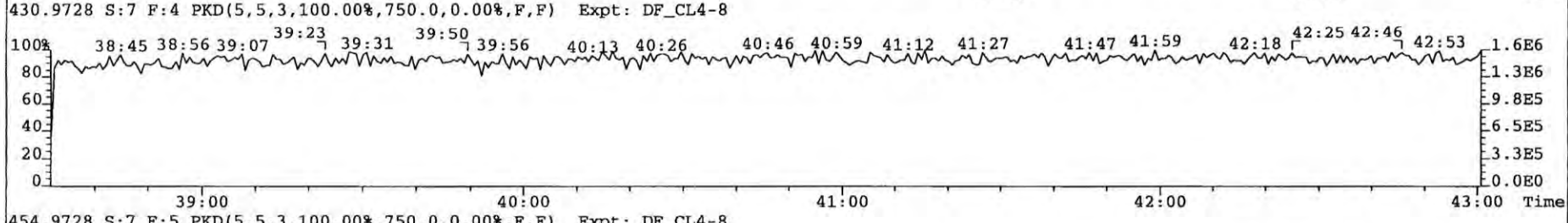
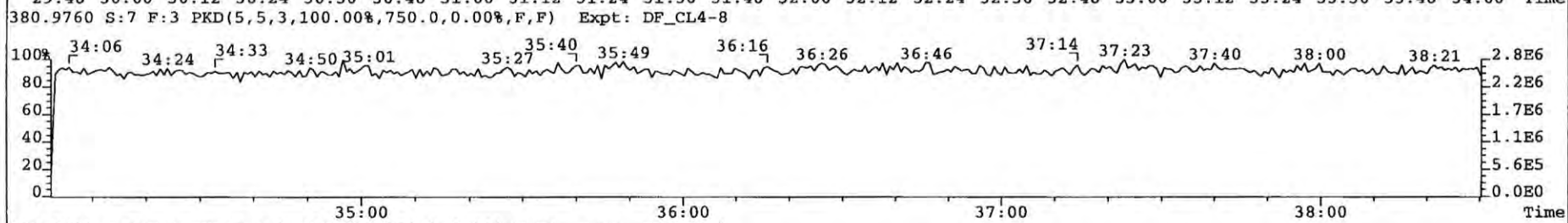
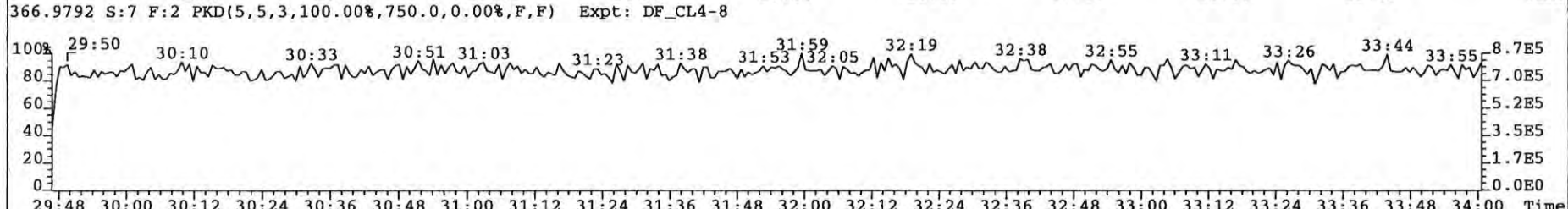
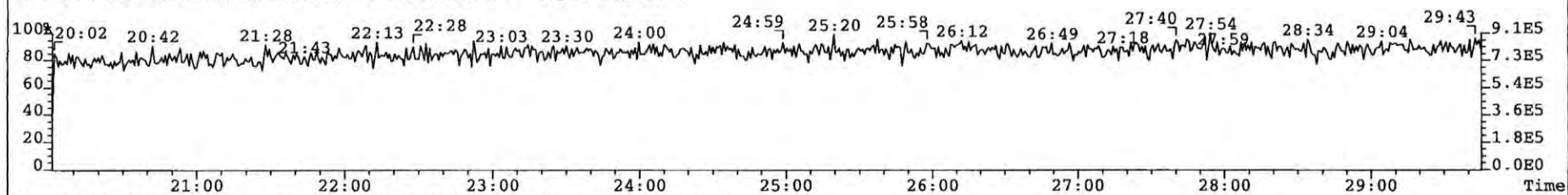
Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax	2,3,7,8-TCDD	500.00	2.11e+08	0.79 y	27:05 ✓	1.16 ✓
2	Ax	1,2,3,7,8-PeCDD	2500.00	9.06e+08	1.62 y	32:41 ✓	1.05
3	Ax	1,2,3,4,7,8-HxCDD	2500.00	8.31e+08	1.25 y	36:38 ✓	1.12
4	Ax	1,2,3,6,7,8-HxCDD	2500.00	8.39e+08	1.26 y	36:45 ✓	0.99 ✓
5	Ax	1,2,3,7,8,9-HxCDD	2500.00	8.61e+08	1.25 y	37:03 ✓	1.04
6	Ax	1,2,3,4,6,7,8-HpCDD	2500.00	6.89e+08	1.07 y	40:15 ✓	1.03
7	Ax	OCDD	5000.00	1.13e+09	0.89 y	43:51 ✓	1.14 ✓
8	Ax2	OCDD-a	5000.00	6.83e+07	2.55 y	43:50	0.07
9	Ax	2,3,7,8-TCDF	500.00	3.13e+08	0.79 y	26:09 ✓	1.10 ✓
10	Ax	1,2,3,7,8-PeCDF	2500.00	1.44e+09	1.59 y	31:11 ✓	1.03
11	Ax	2,3,4,7,8-PeCDF	2500.00	1.52e+09	1.58 y	32:19 ✓	1.05
12	Ax	1,2,3,4,7,8-HxCDF	2500.00	1.26e+09	1.27 y	35:39 ✓	1.28 ✓
13	Ax	1,2,3,6,7,8-HxCDF	2500.00	1.49e+09	1.28 y	35:48 ✓	1.22
14	Ax	2,3,4,6,7,8-HxCDF	2500.00	1.27e+09	1.26 y	36:27 ✓	1.19
15	Ax	1,2,3,7,8,9-HxCDF	2500.00	1.12e+09	1.26 y	37:25 ✓	1.18 ✓
16	Ax	1,2,3,4,6,7,8-HpCDF	2500.00	1.14e+09	1.04 y	39:05 ✓	1.42
17	Ax	1,2,3,4,7,8,9-HpCDF	2500.00	9.39e+08	1.04 y	40:50 ✓	1.41
18	Ax	OCDF	5000.00	1.57e+09	0.92 y	44:04 ✓	0.97 ✓
19	Ax2	OCDF-a	5000.00	9.09e+07	2.67 y	44:04	0.06
20	ES	13C-2,3,7,8-TCDD	100.00	3.65e+07	0.81 y	27:04	1.04 ✓
21	ES	13C-1,2,3,7,8-PeCDD	100.00	3.44e+07	1.65 y	32:40	0.98
22	ES	13C-1,2,3,4,7,8-HxCDD	100.00	2.97e+07	1.29 y	36:37	1.26
23	ES	13C-1,2,3,6,7,8-HxCDD	100.00	3.38e+07	1.27 y	36:44	1.43 ✓
24	ES	13C-1,2,3,7,8,9-HxCDD	100.00	3.30e+07	1.27 y	37:02	1.40
25	ES	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.68e+07	1.07 y	40:14	1.14
26	ES	13C-OCDD	200.00	3.96e+07	0.89 y	43:49	0.84 ✓
27	ES	13C-2,3,7,8-TCDF	100.00	5.70e+07	0.80 y	26:08	1.00 ✓
28	ES	13C-1,2,3,7,8-PeCDF	100.00	5.56e+07	1.59 y	31:10	0.98
29	ES	13C-2,3,4,7,8-PeCDF	100.00	5.80e+07	1.60 y	32:18	1.02
30	ES	13C-1,2,3,4,7,8-HxCDF	100.00	3.94e+07	0.53 y	35:38	1.67 ✓
31	ES	13C-1,2,3,6,7,8-HxCDF	100.00	4.87e+07	0.54 y	35:47	2.07
32	ES	13C-2,3,4,6,7,8-HxCDF	100.00	4.27e+07	0.54 y	36:26	1.81
33	ES	13C-1,2,3,7,8,9-HxCDF	100.00	3.82e+07	0.54 y	37:24	1.62 ✓
34	ES	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.21e+07	0.47 y	39:04	1.36
35	ES	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.66e+07	0.46 y	40:48	1.13
36	ES	13C-OCDF	200.00	6.45e+07	0.91 y	44:03	1.37 ✓
37	CS	37C1-2,3,7,8-TCDD	500.00	*		NotF>>	*
38	CS	13C-1,2,3,4,7-PeCDD	100.00	2.79e+07	1.72 y	32:09	0.80 ✓
39	CS	13C-1,2,3,4,6-PeCDF	100.00	4.56e+07	1.58 y	30:37	0.80
40	CS	13C-1,2,3,4,6,9-HxCDF	100.00	3.36e+07	0.54 y	36:05	1.43 ✓
41	CS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.14e+07	0.46 y	39:33	0.91 ✓
42	NA	n/a	100.00	*	* n	NotF>>	*
43	JS/RT	13C-1,2,3,4-TCDD	100.00	3.51e+07	0.83 y	26:23	3.51e+05
44	JS	13C-1,2,3,4-TCDF	100.00	5.70e+07	0.78 y	24:42	5.70e+05
45	JS/RT	13C-1,2,3,4,6,7-HxCDD	50.00	1.18e+07	1.29 y	36:55	2.36e+05

✓ calc.

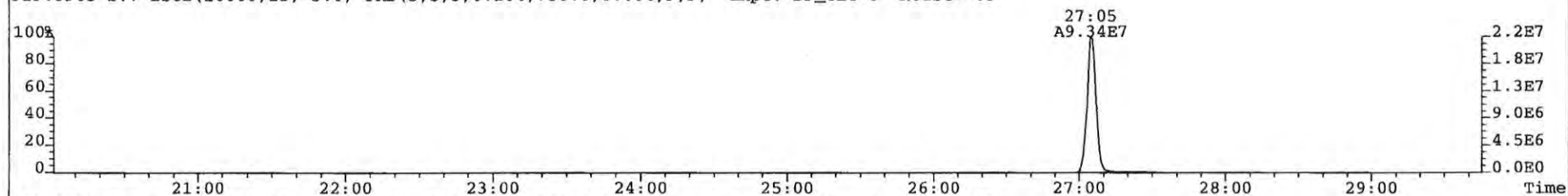
Analyst: *[Signature]*
 Date: *26 Dec 08*

46	SS	37Cl-2,3,7,8-TCDD	500.00	*		NotF»	-	*
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.79e+07	1.72 y	32:09	-	0.81
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.56e+07	1.58 y	30:37	-	0.82 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.36e+07	0.54 y	36:05	-	0.69
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.14e+07	0.46 y	39:33	-	0.67 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.10 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.16 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.16
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.16
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.05
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.05
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.05 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	1.03
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.10 ✓
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.10
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.10
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.10
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.04 ✓
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.22 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.16
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.05
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.05
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	1.03
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.10
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.04
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.22
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.42
73	Tot	TCDD EMPC	-	-	- n	-	-	1.16
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.05
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.05
76	Tot	HpCDD EMPC	-	-	- n	-	-	1.03
77	Tot	TCDF EMPC	-	-	- n	-	-	1.10
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.04
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.22
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.42
81	AS	13C-1,3,6,8-TCDD	100.00	3.90e+07	0.83 y	23:08	-	1.11 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.30e+07	0.78 y	20:56	-	1.11 ✓
83	DPE	HxCDPE	-	3.79e+04		21:06	-	-
84	DPE	HpCDPE	-	5.22e+04		30:10	-	-
85	DPE	OCDPE	-	5.00e+04		35:41	-	-
86	DPE	NCDPE	-	2.59e+04		38:42	-	-
87	DPE	DCDPE	-	*		NotF»	-	-
88	LMC	Fn1 check mass	-	*		NotF»	-	-
89	LMC	Fn2 check mass	-	*		NotF»	-	-
90	LMC	Fn3 check mass	-	*		NotF»	-	-
91	LMC	Fn4 check mass	-	*		NotF»	-	-
92	LMC	Fn5 check mass	-	*		NotF»	-	-

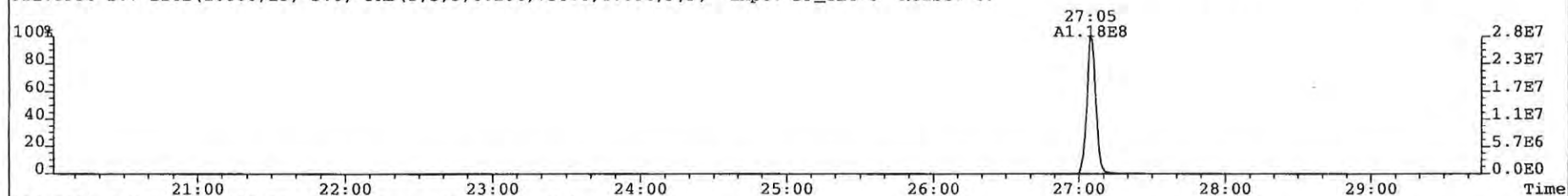
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



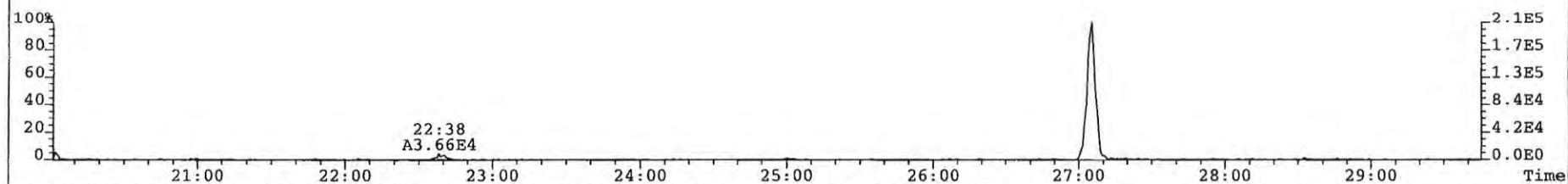
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 83



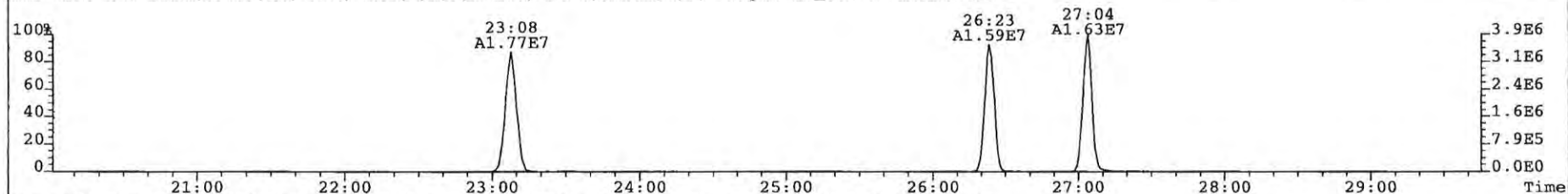
321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 67



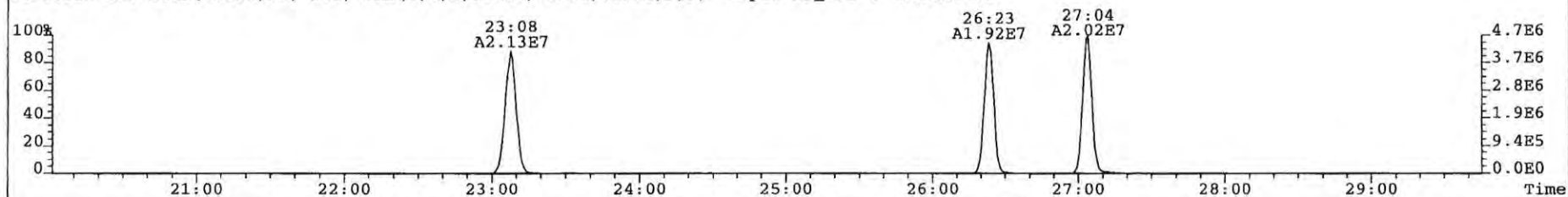
327.8850 S:7 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



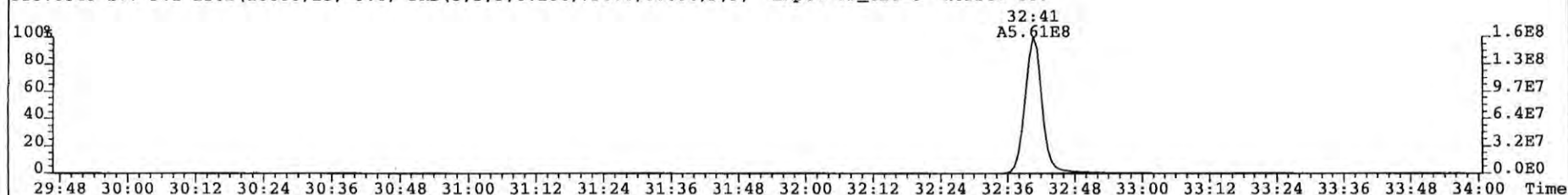
333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 96



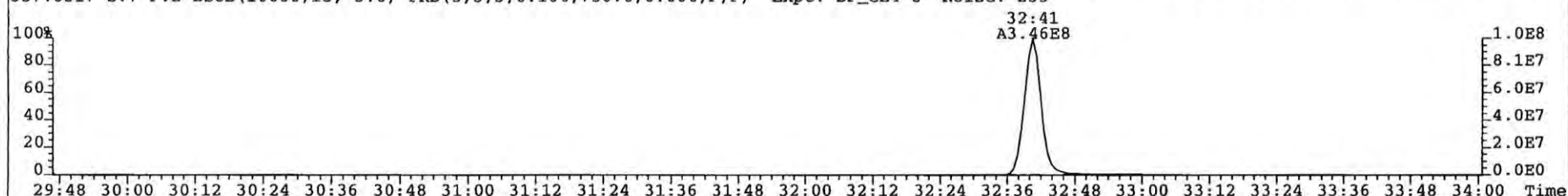
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5

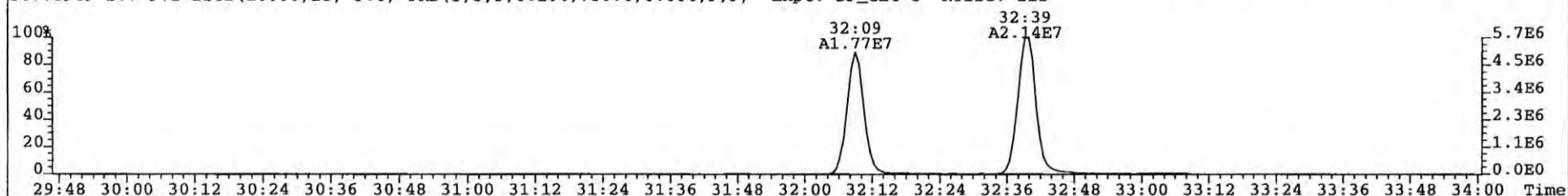
355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 558



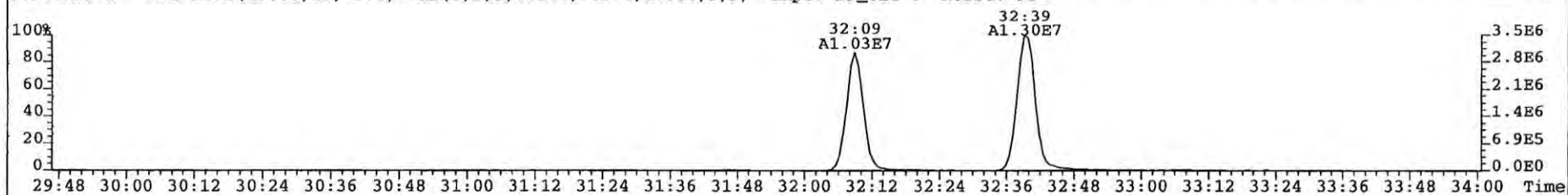
357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 235



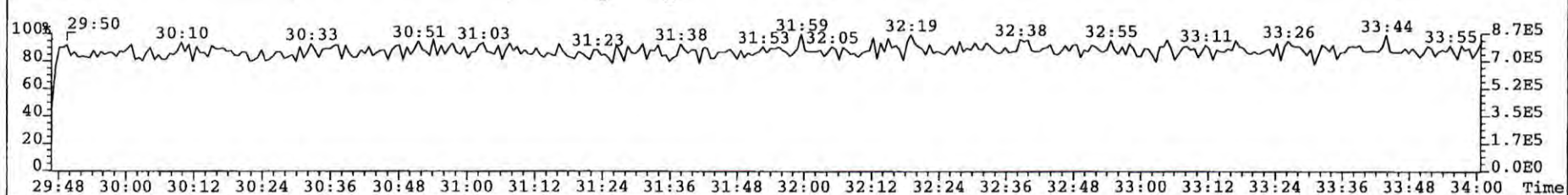
367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 111



369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 95



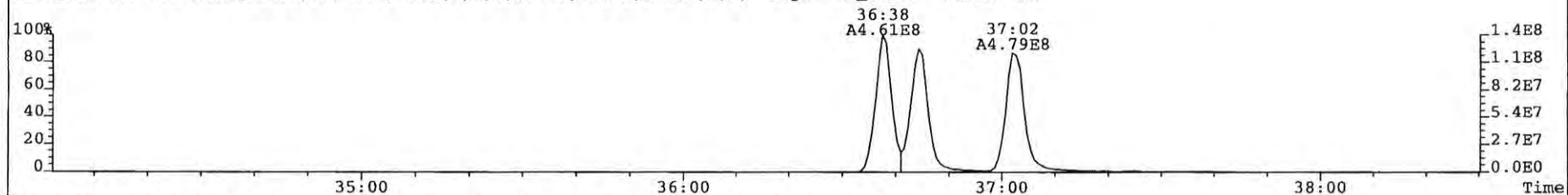
366.9792 S:7 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



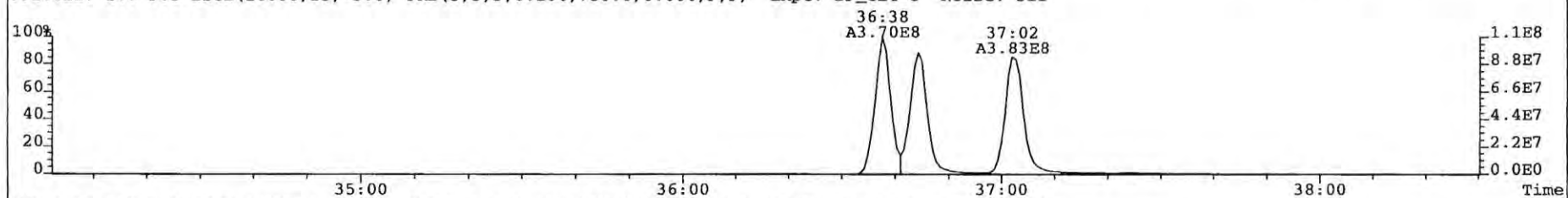
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5

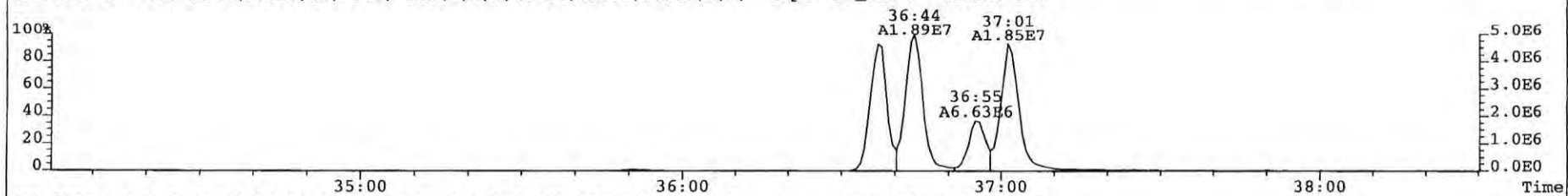
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 252



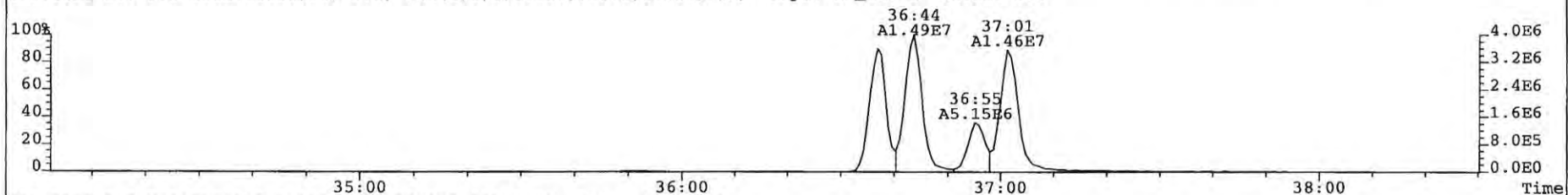
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 311



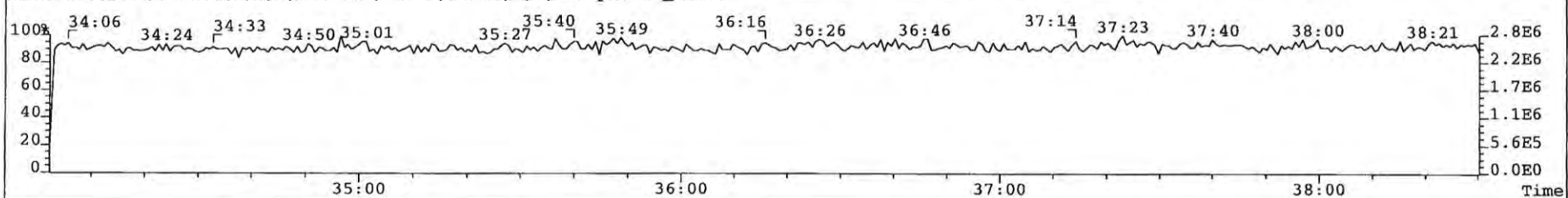
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 140



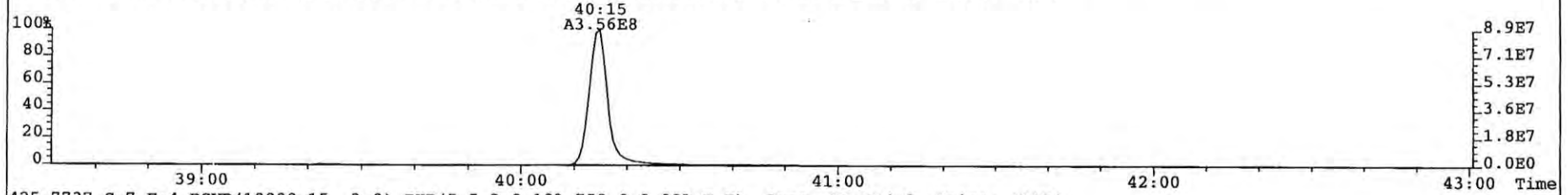
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 119



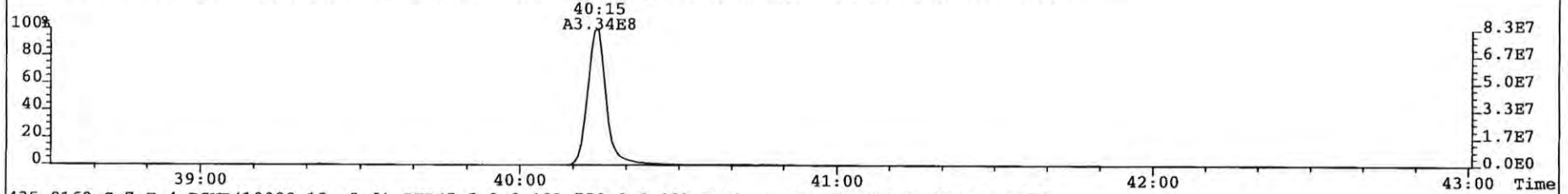
380.9760 S:7 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



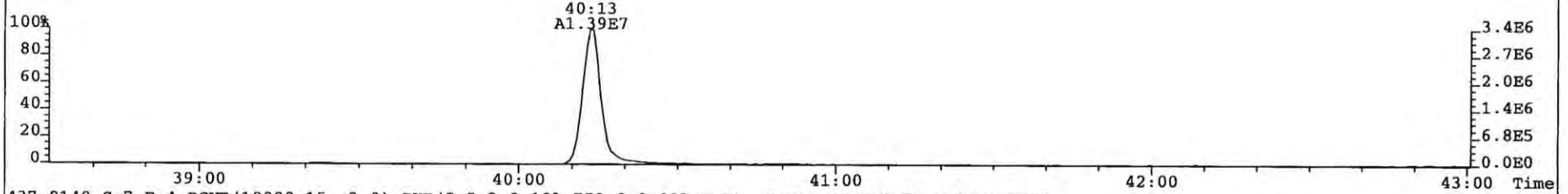
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 11889



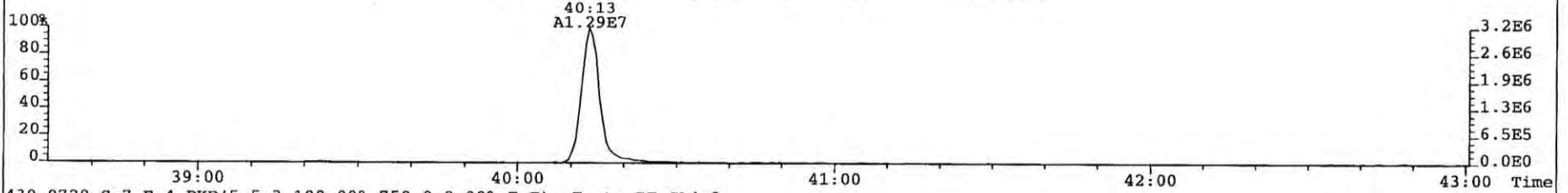
425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 11994



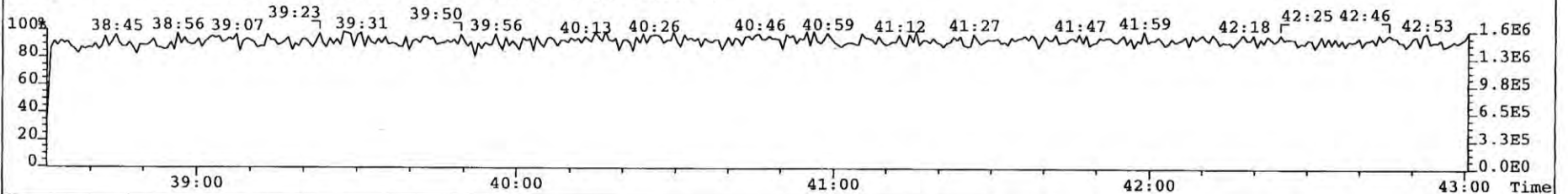
435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1179



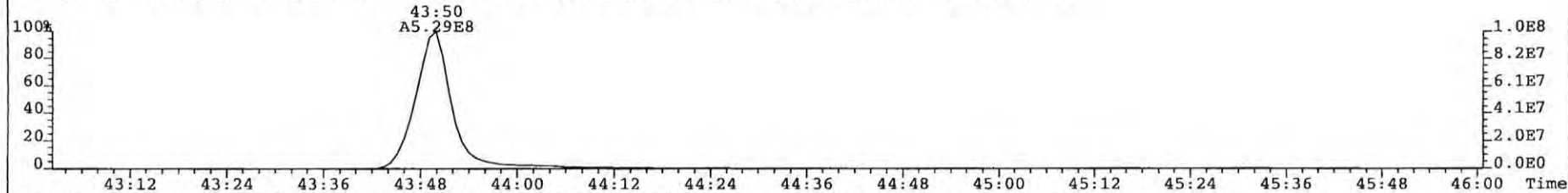
437.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1062



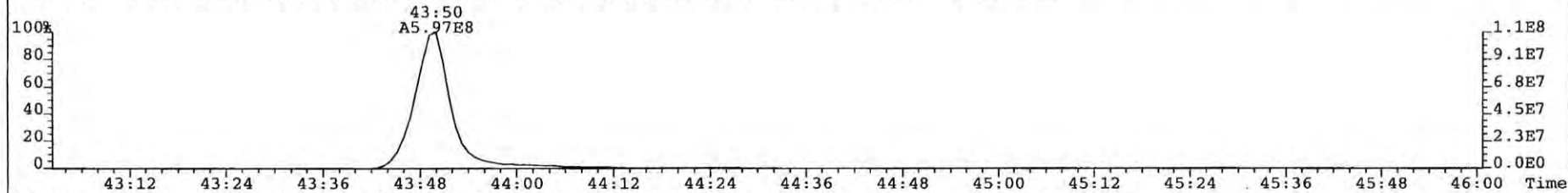
430.9728 S:7 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



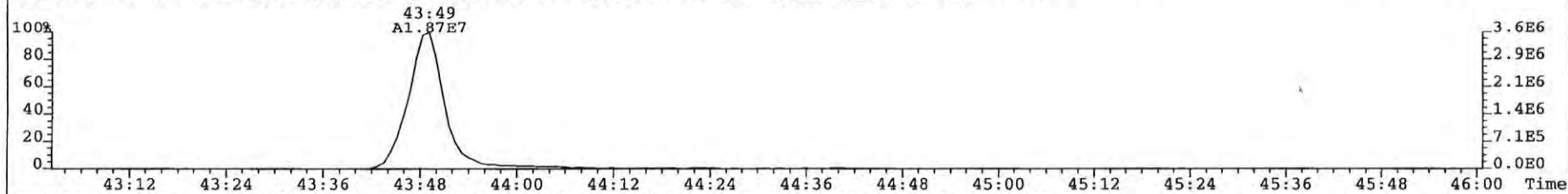
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 3948



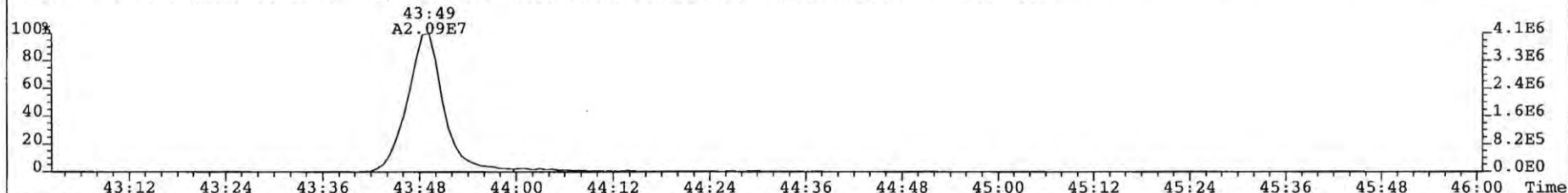
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 3160



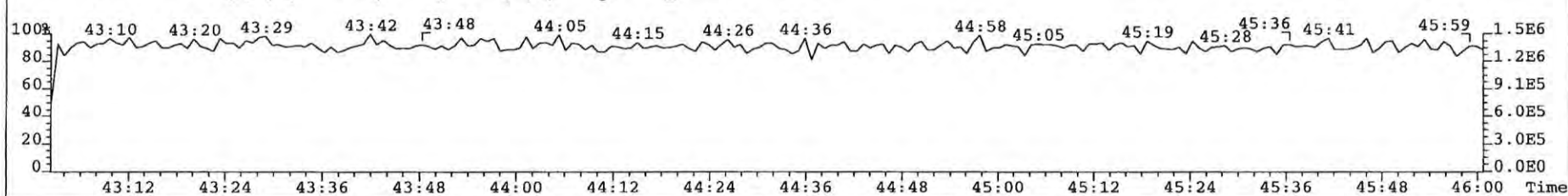
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 192



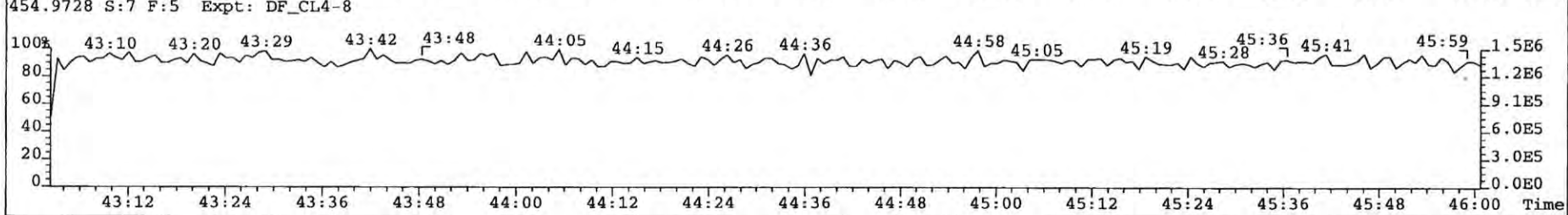
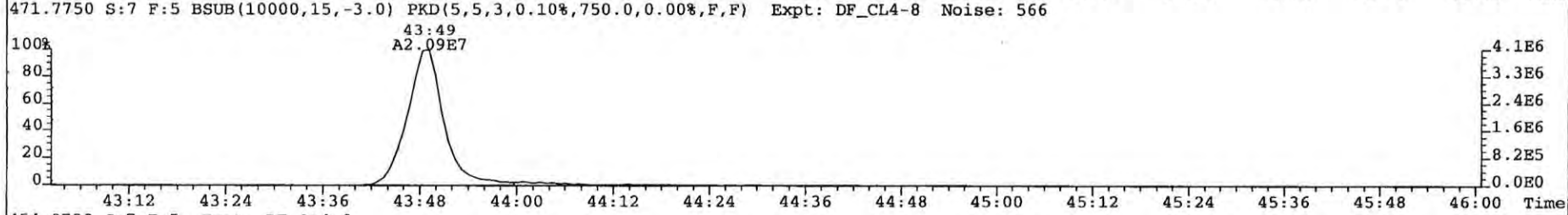
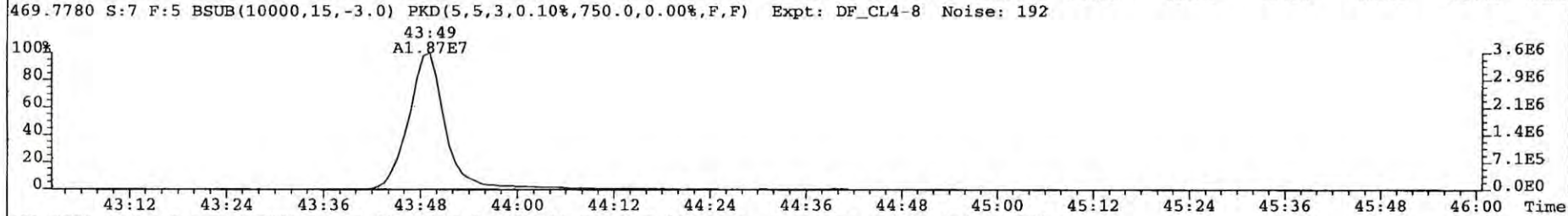
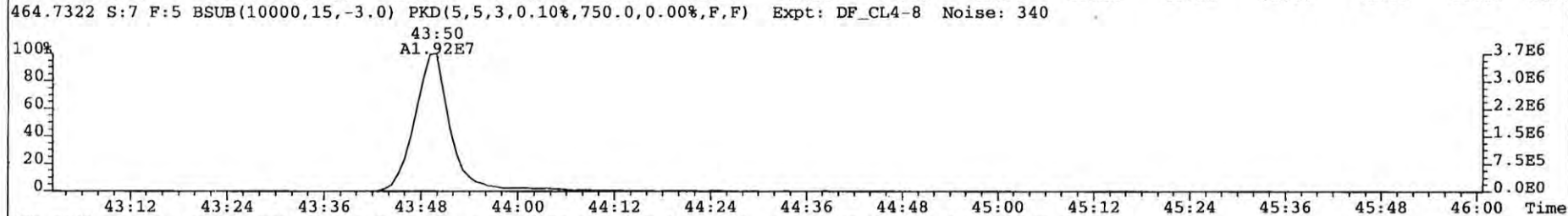
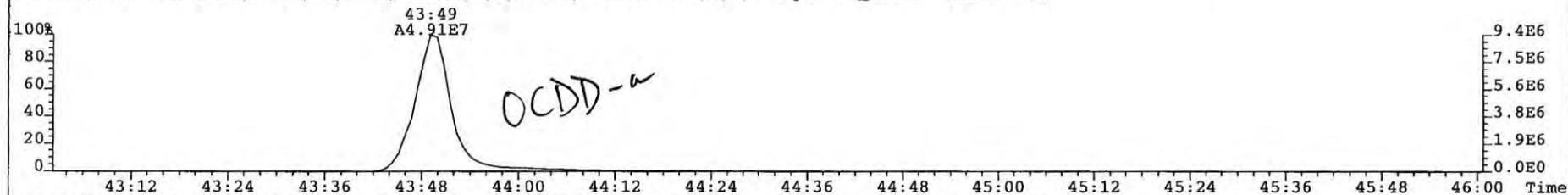
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 566



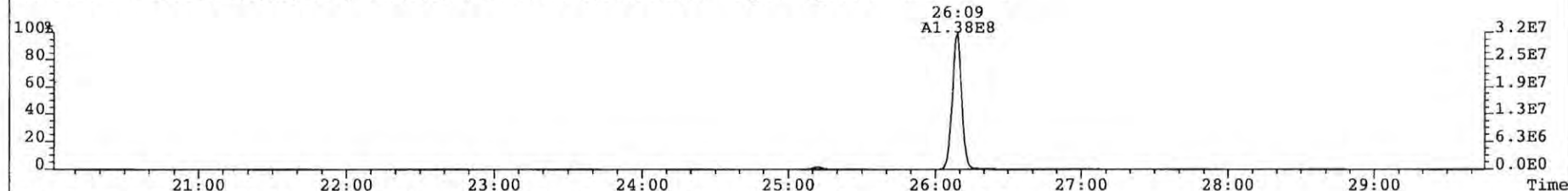
454.9728 S:7 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



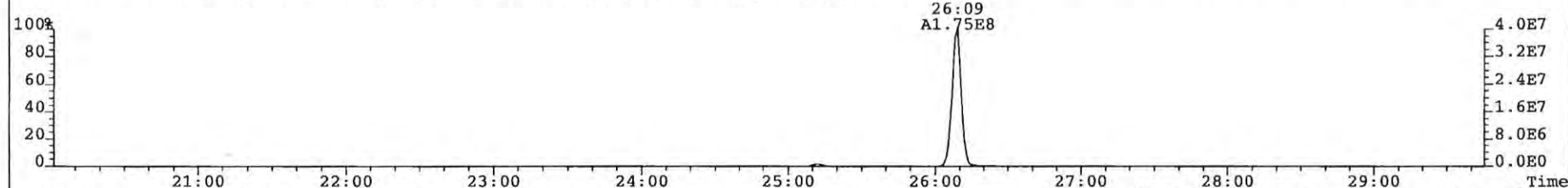
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
462.7352 S:7 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 962



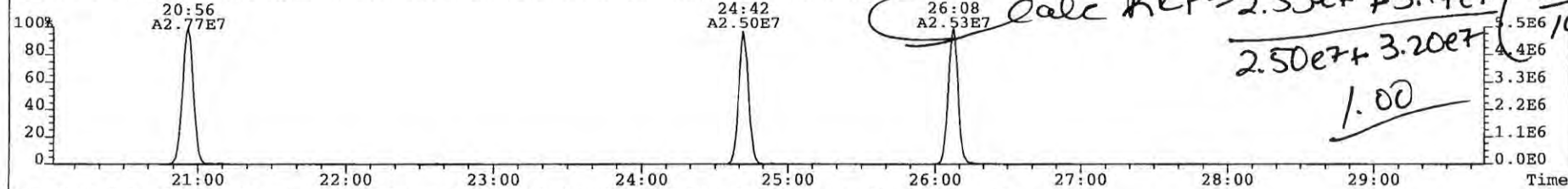
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
 303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 611



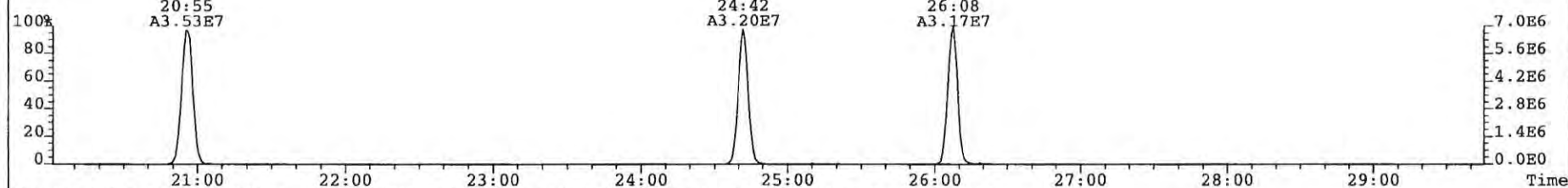
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 567



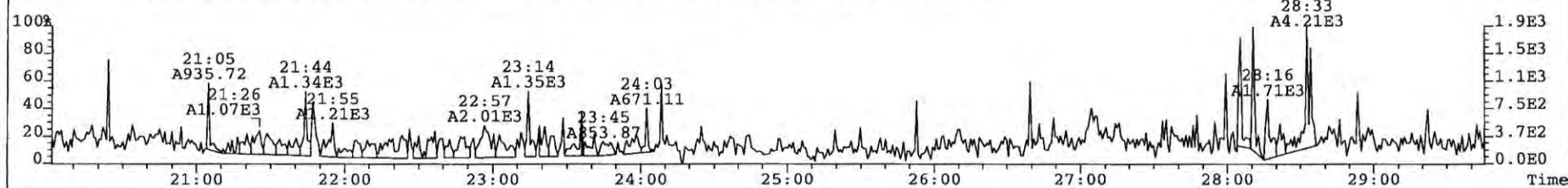
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 89



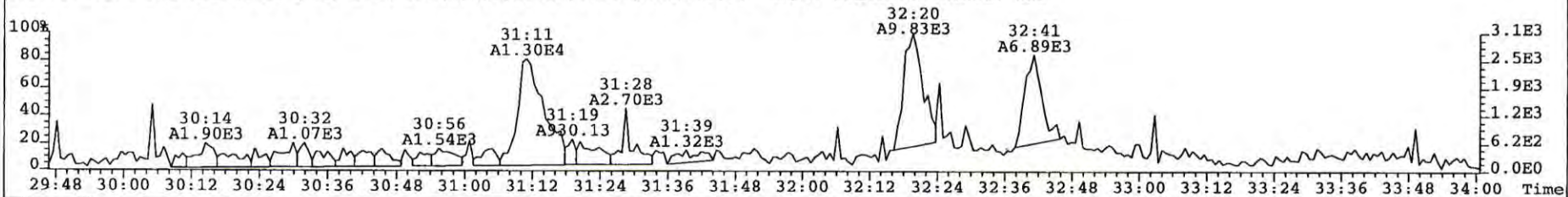
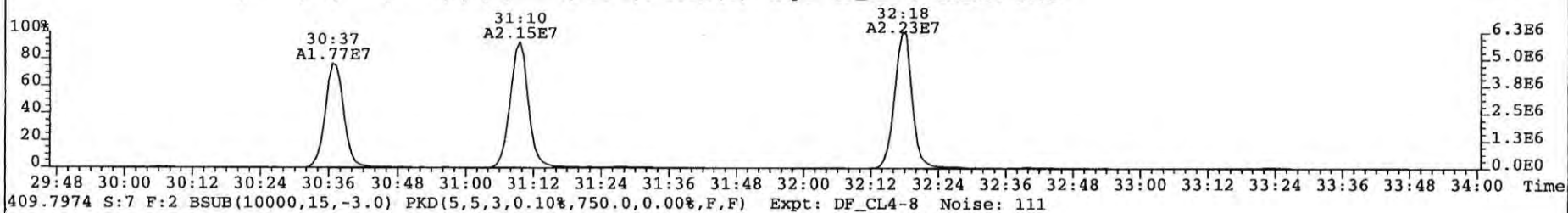
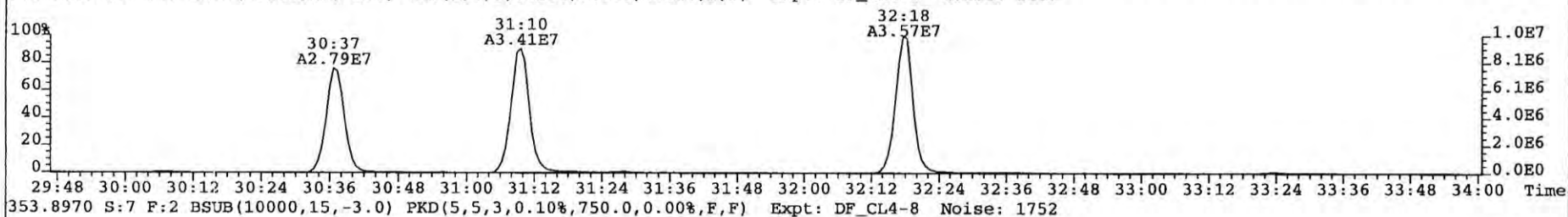
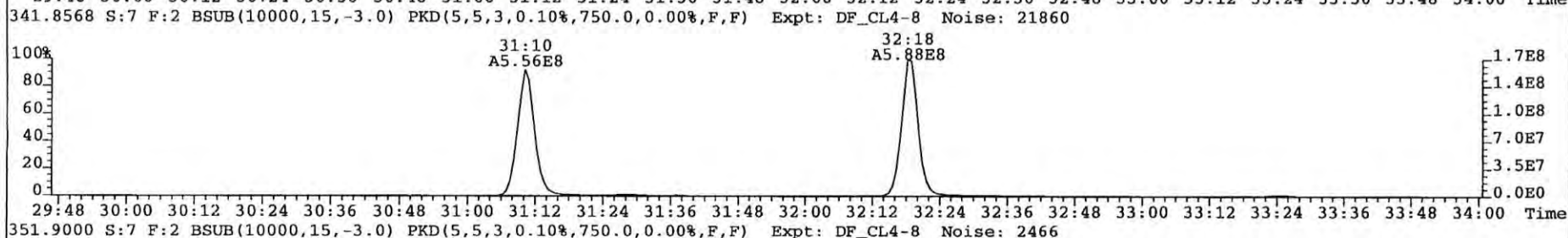
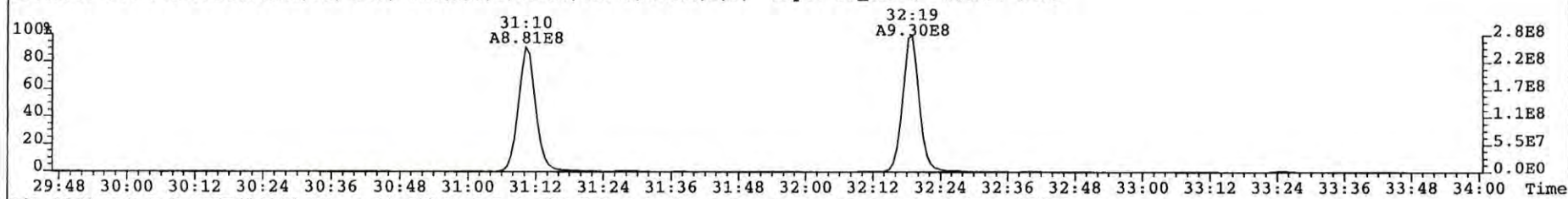
317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 118



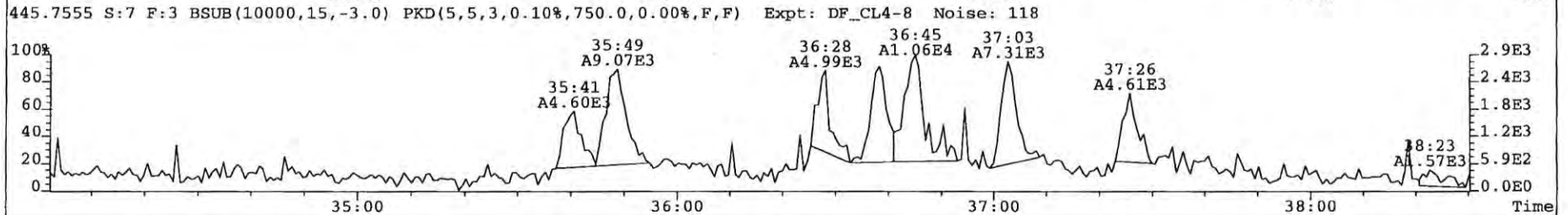
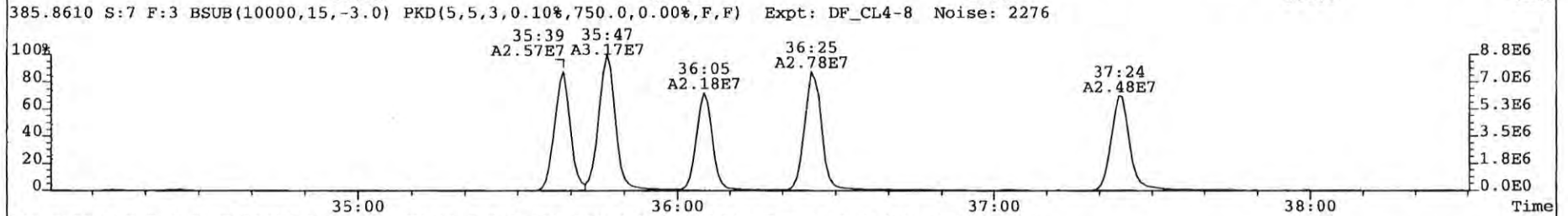
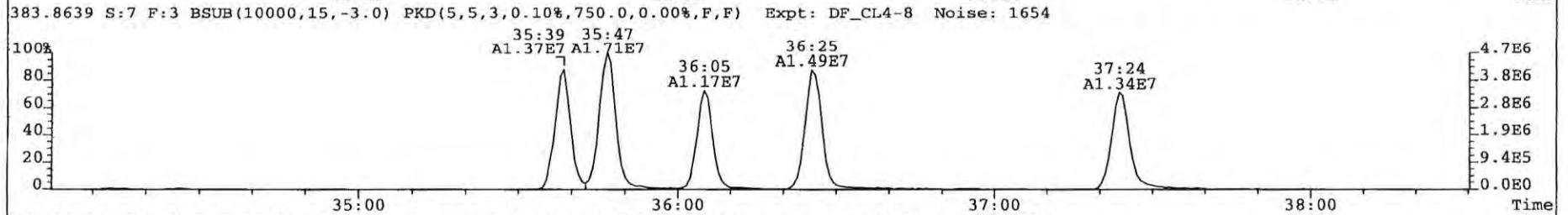
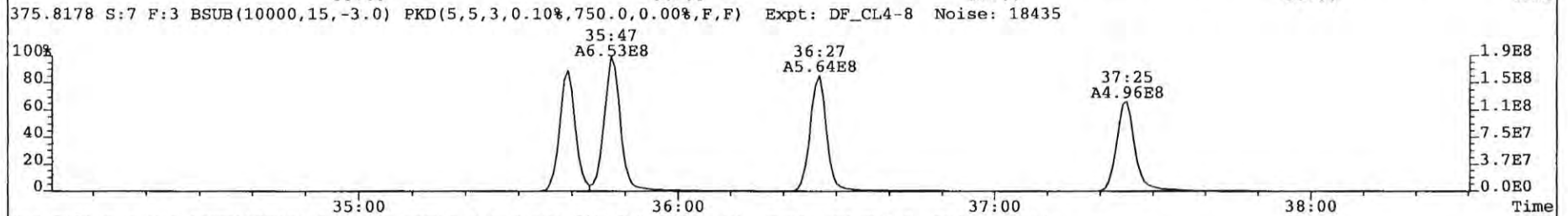
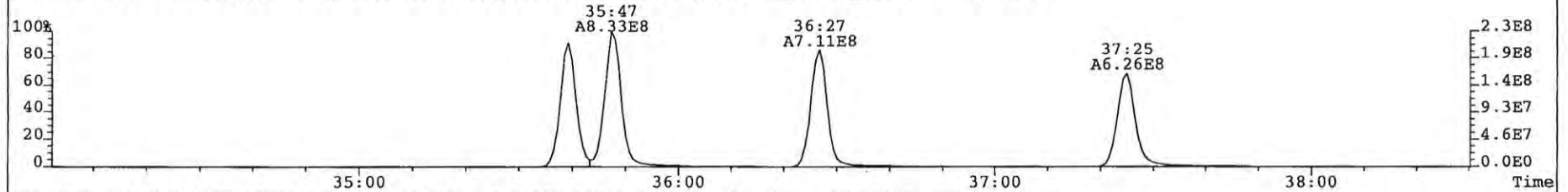
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 86



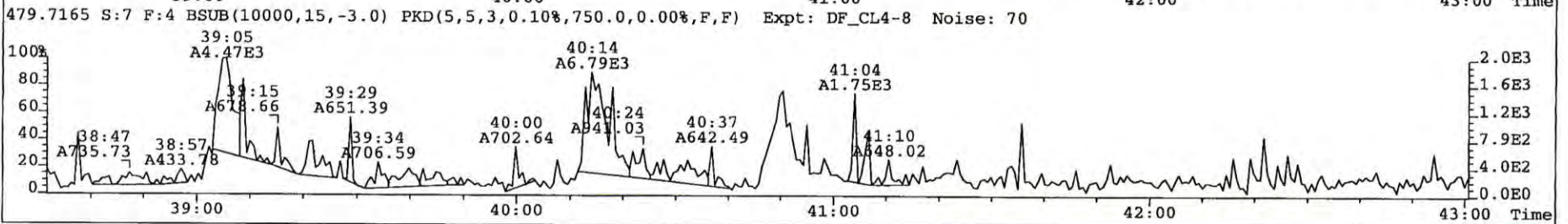
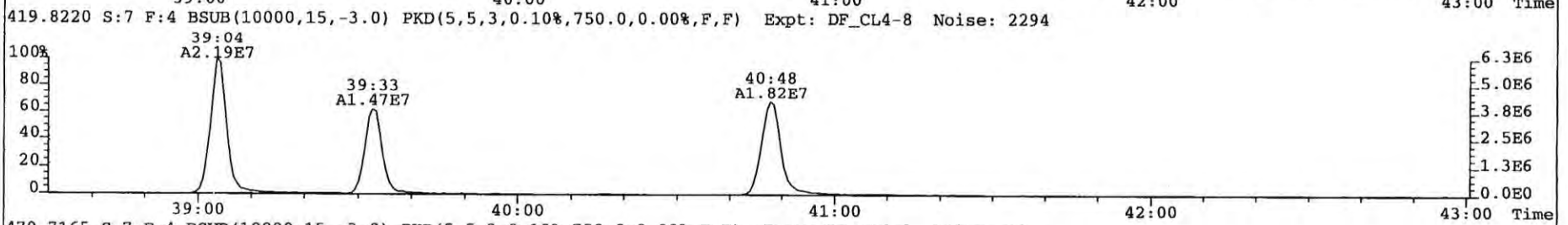
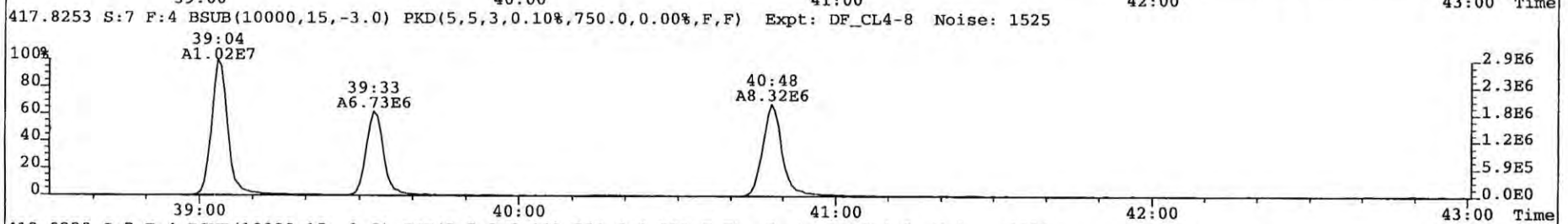
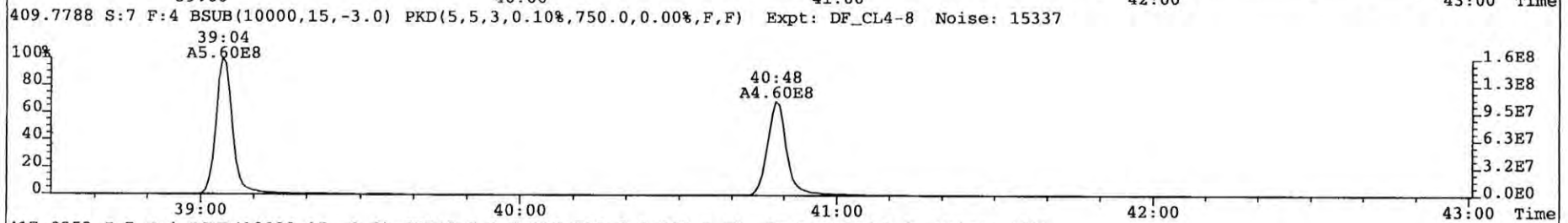
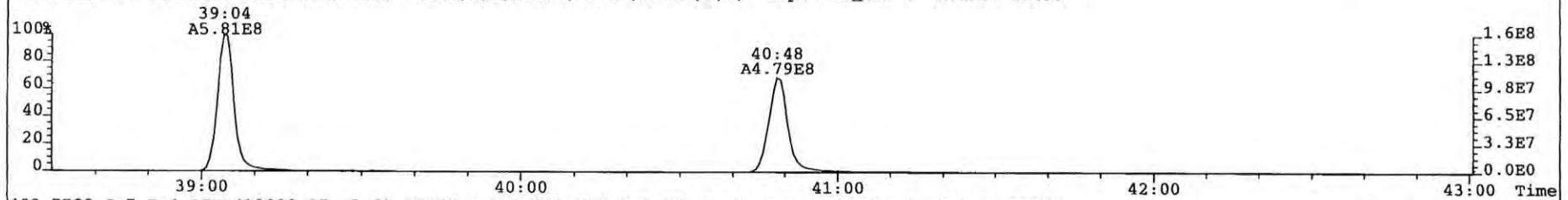
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 3480



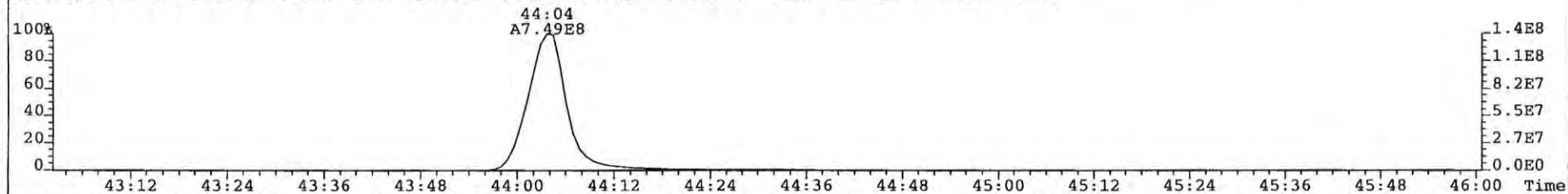
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Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 12923



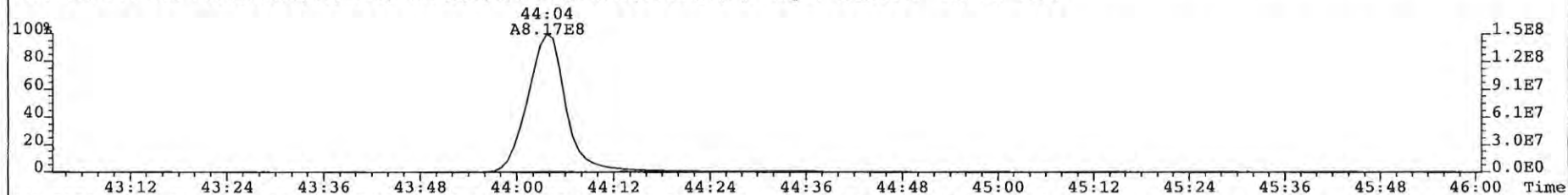
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 17438



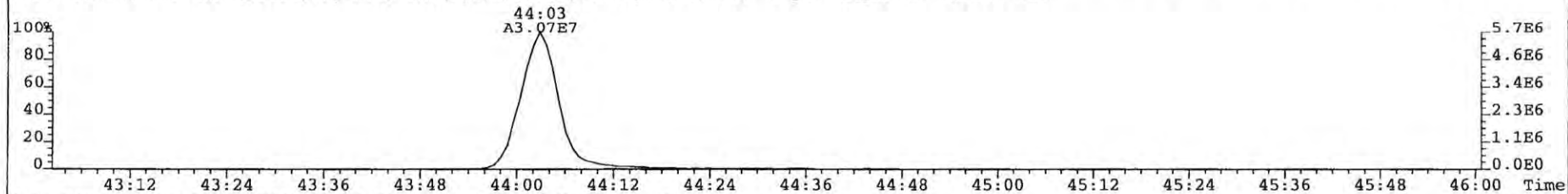
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 5486



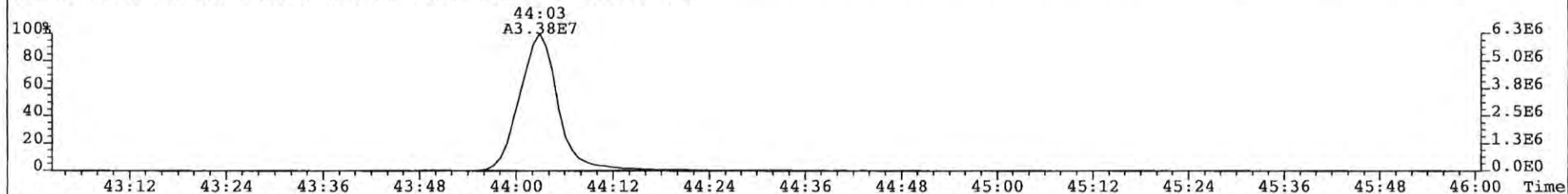
443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 1990



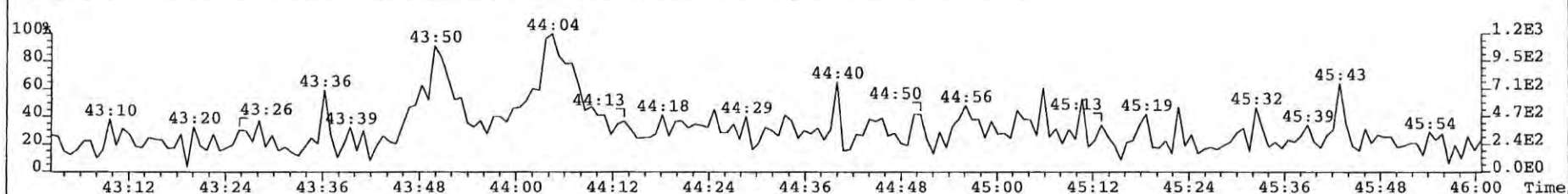
453.7830 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 414



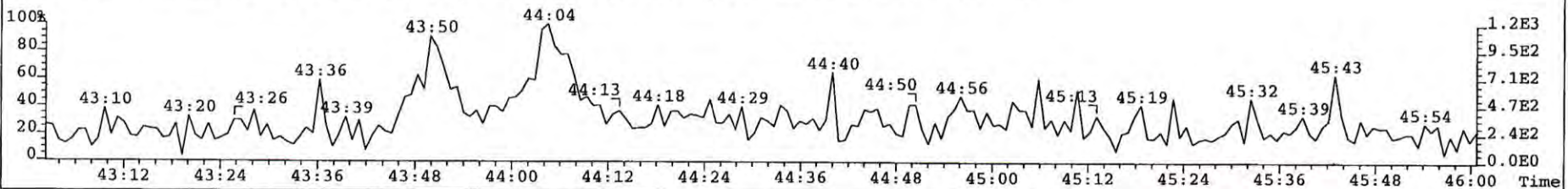
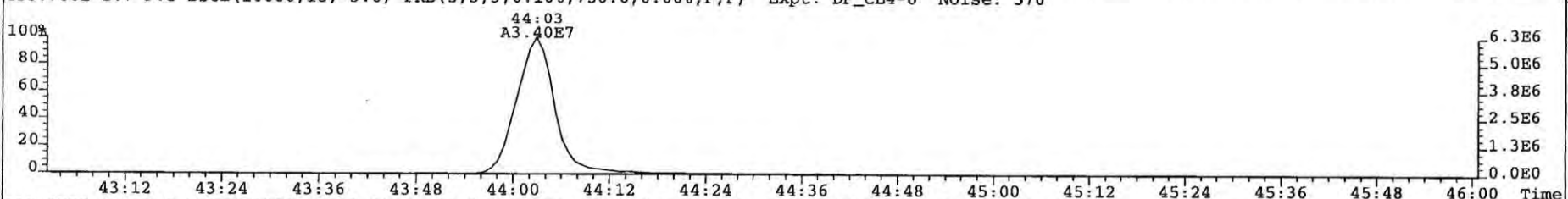
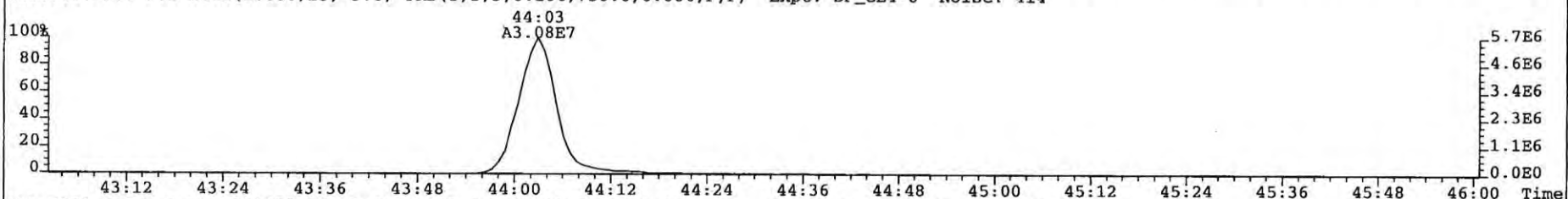
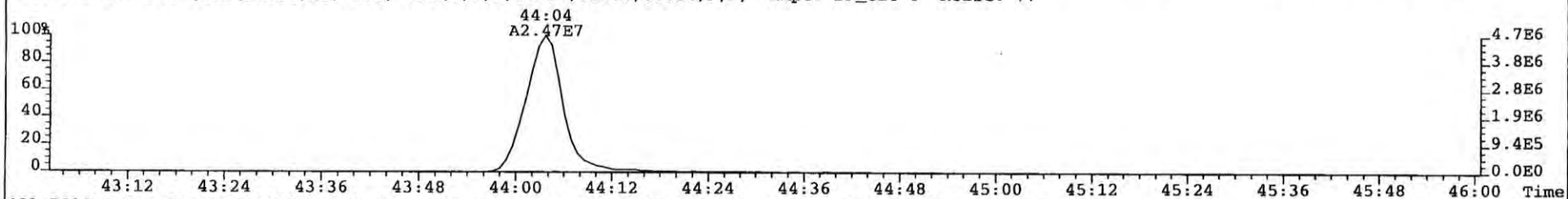
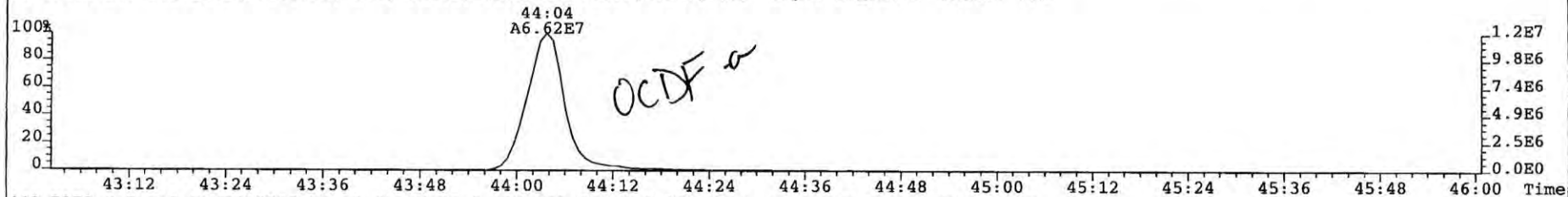
455.7801 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 576



513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 99



File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5
446.7402 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 772



FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Analytical Perspectives Episode No.:
 Contract No.: SAS No.:
 Matrix (aqueous/solid/leachate): OPR Data Filename:
 Ext. Date: Shift: Analysis Date: 11-MAR-09 Time: 17:19:23 ✓

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) ✓ (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	11.1	6.7 - 15.8
1,2,3,7,8-PeCDD	50	54.2	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	53.6	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	58.3	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	54.4	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	54.1	35.0 - 70.0
OCDD	100	114.0	78.0 - 144.0
2,3,7,8-TCDF	10	12.0	7.5 - 15.8
1,2,3,7,8-PeCDF	50	57.6	40.0 - 67.0
2,3,4,7,8-PeCDF	50	57.4	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	53.4	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	52.7	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	56.3	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	54.5	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	55.1	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	54.1	39.0 - 69.0
OCDF	100	107.2	63.0 - 170.0

Analyst: [Signature]
 Date: 24 Mar

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

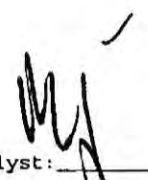
24 March 09

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Analytical Perspectives Episode No.:
 Contract No.: SAS No.:
 Matrix (aqueous/solid/leachate): OPR Data Filename:
 Ext. Date: Shift: Analysis Date: 11-MAR-09 Time: 17:19:23

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

Labeled Compounds	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	77.2	20.0 - 175.0
13C-1,2,3,7,8-PeCDD	100	76.4	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	87.1	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	83.6	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	83.4	26.0 - 166.0
13C-1,2,3,4,6,7,8-HpCDD	100	90.5	26.0 - 166.0
13C-OCDD	200	166.6	26.0 - 397.0
13C-2,3,7,8-TCDF	100	74.7	22.0 - 152.0
13C-1,2,3,7,8-PeCDF	100	81.3	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	75.8	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	91.1	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	99.3	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	94.4	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	88.6	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	90.5	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	101.2	20.0 - 186.0
13C-OCDF	200	180.4	26.0 - 397.0
CLEANUP STANDARD			
37C1-2,3,7,8-TCDD	40	33.0	12.4 - 76.4

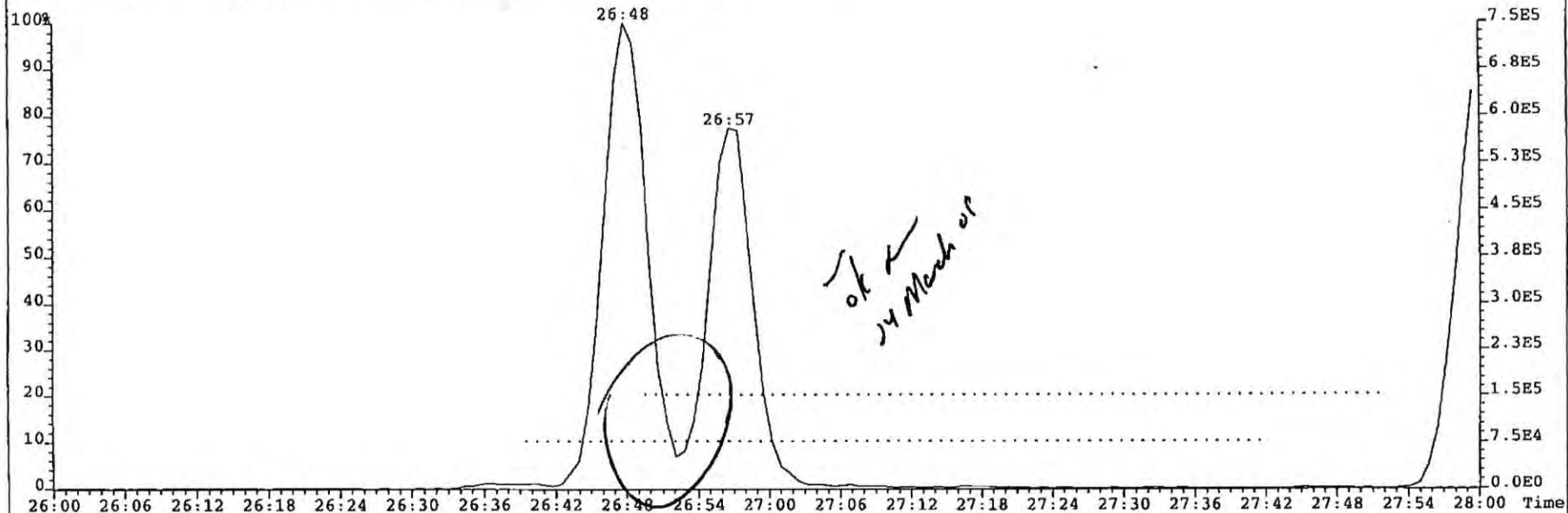
Analyst: 

Date: 2/24/09

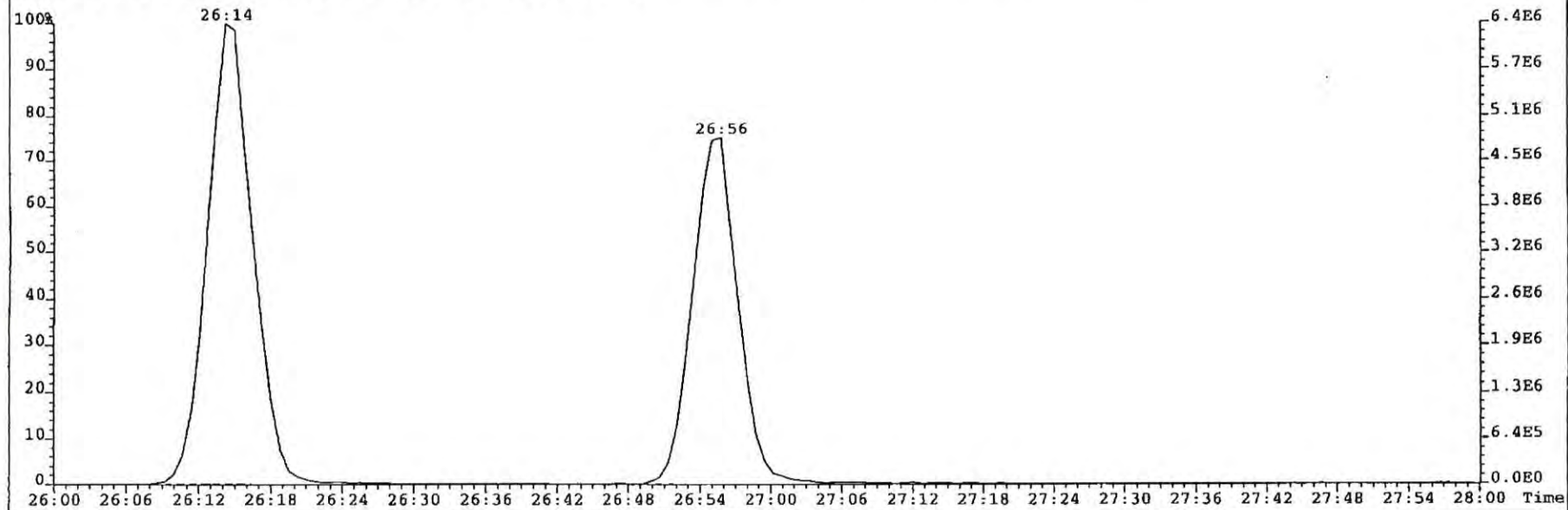
(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

SS	37C1-2,3,7,8-TCDD	1.62e+07		26:57	1.00	42.5		0.0443	106
SS	13C-1,2,3,4,7-PeCDD	3.21e+07	1.63 y	32:04	0.93	109	5387 2.5	0.424	109
SS	13C-1,2,3,4,6-PeCDF	6.07e+07	1.57 y	30:31	0.94	104	5994 2.5	0.243	104
SS	13C-1,2,3,4,6,9-HxCDF	4.02e+07	0.53 y	36:02	0.80	99.7	18889 2.5	0.643	99.7
SS	13C-1,2,3,4,6,8,9-HpCDF	2.66e+07	0.46 y	39:31	0.79	112	11210 2.5	0.666	112
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	1473 2.5	0.0433	-
Ay	1,3,6,8-TCDD	4.66e+06	0.83 y	22:59	1.08	11.3	1095 2.5	0.0528	-
Ay	1,2,3,9-TCDD	5.75e+06	0.81 y	26:48	1.08	13.9	1095 2.5	0.0528	-
Ay	1,2,8,9-TCDD	4.76e+06	0.79 y	28:00	1.08	11.6	1095 2.5	0.0528	-
Ay	1,2,4,7,9-PeCDD	4.74e+06	1.60 y	30:00	1.00	15.0	3004 2.5	0.220	-
Ay	1,2,3,8,9-PeCDD	3.75e+06	1.69 y	33:03	1.00	11.9	3004 2.5	0.220	-
Ay	1,2,4,6,7,9-HxCDD	4.17e+06	1.23 y	34:52	1.00	14.7	4310 2.5	0.315	-
Ay	1,2,3,4,6,7,9-HpCDD	3.02e+06	1.06 y	39:22	0.97	12.2	3109 2.5	0.265	-
Ay	1,3,6,8-TCDF	9.61e+06	0.78 y	20:47	1.05	14.3	1473 2.5	0.0433	-
Ay	2,3,4,8-TCDF	7.17e+06	0.86 y	25:54	1.05	10.7	1473 2.5	0.0433	-
Ay	1,2,8,9-TCDF	8.06e+06	0.80 y	28:10	1.05	12.0	1473 2.5	0.0433	-
Ay	1,3,4,6,8-PeCDF	4.79e+06	1.69 y	28:08	1.05	7.13	2030 2.5	0.0597	-
Ay	1,2,3,8,9-PeCDF	6.09e+06	1.56 y	33:20	1.00	9.94	6593 2.5	0.253	-
Ay	1,2,3,4,6,8-HxCDF	5.52e+07	1.25 y	34:12	1.15	114	7213 2.5	0.213	-
Tot	Total Tetra-Dioxins	1.99e+07	0.83 y	22:59	1.08	48.2	1095 2.5	0.0528	-
Tot	Total Penta-Dioxins	2.56e+07	1.60 y	30:00	1.00	81.2	3004 2.5	0.220	-
Tot	Total Hexa-Dioxins	5.15e+07	1.23 y	34:52	1.00	181	4310 2.5	0.315	-
Tot	Total Hepta-Dioxins	1.64e+07	1.06 y	39:22	0.97	66.3	3109 2.5	0.265	-
Tot	Total Tetra-Furans	3.52e+07	0.78 y	20:47	1.05	52.5	1473 2.5	0.0433	-
Tot	Total Penta-Furans	7.85e+07	1.56 y	29:54	1.00	128	6593 2.5	0.253	-
Tot	Total Hexa-Furans	1.60e+08	1.25 y	34:12	1.15	332	7213 2.5	0.213	-
Tot	Total Hepta-Furans	4.16e+07	1.06 y	39:03	1.35	109	6571 2.5	0.252	-
Tot	TCDD EMPC	1.99e+07	0.83 y	22:59	1.08	48.2	1095 2.5	0.0528	-
Tot	PeCDD EMPC	2.56e+07	1.60 y	30:00	1.00	81.2	3004 2.5	0.220	-
Tot	HxCDD EMPC	5.17e+07	1.23 y	34:52	1.00	182	4310 2.5	0.315	-
Tot	HpCDD EMPC	1.64e+07	1.06 y	39:22	0.97	66.3	3109 2.5	0.265	-
Tot	TCDF EMPC	3.53e+07	0.78 y	20:47	1.05	52.6	1473 2.5	0.0433	-
Tot	PeCDF EMPC	7.85e+07	1.56 y	29:54	1.00	128	6593 2.5	0.253	-
Tot	HxCDF EMPC	1.60e+08	1.25 y	34:12	1.15	332	7213 2.5	0.213	-
Tot	HpCDF EMPC	4.16e+07	1.06 y	39:03	1.35	109	6571 2.5	0.252	-
AS	13C-1,3,6,8-TCDD	3.67e+07	0.82 y	22:57	1.09	68.0	1661 2.5	0.0601	68.0
AS	13C-1,3,6,8-TCDF	7.16e+07	0.78 y	20:46	1.09	73.2	1779 2.5	0.0405	73.2
DPE	HxCdPE	*		NotF»	-	*		-	-
DPE	HpCdPE	*		NotF»	-	*		-	-
DPE	OCdPE	*		NotF»	-	*		-	-
DPE	NCDPE	*		NotF»	-	*		-	-
DPE	DCDPE	*		NotF»	-	*		-	-
LMC	Fn1 check mass	*		NotF»	-	*		-	-
LMC	Fn2 check mass	*		NotF»	-	*		-	-
LMC	Fn3 check mass	*		NotF»	-	*		-	-
LMC	Fn4 check mass	*		NotF»	-	*		-	-
LMC	Fn5 check mass	*		NotF»	-	*		-	-

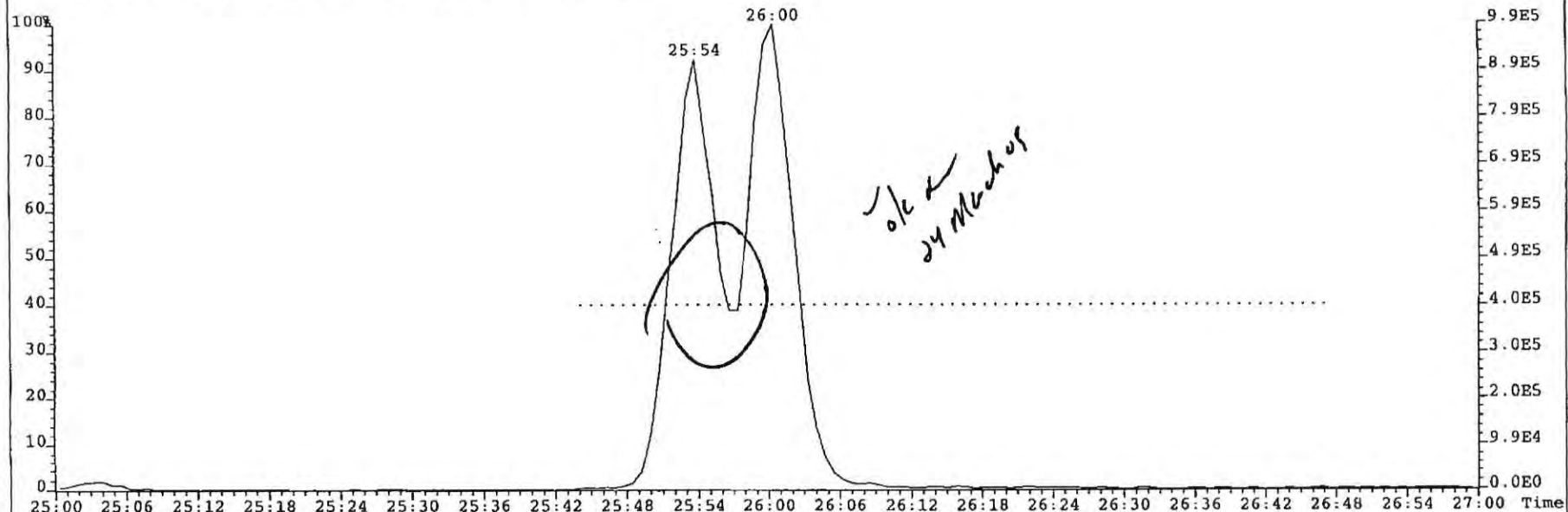
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF_0_6630_OPR001 Vial# 92 File Text: AP DB5
321.8936 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 131



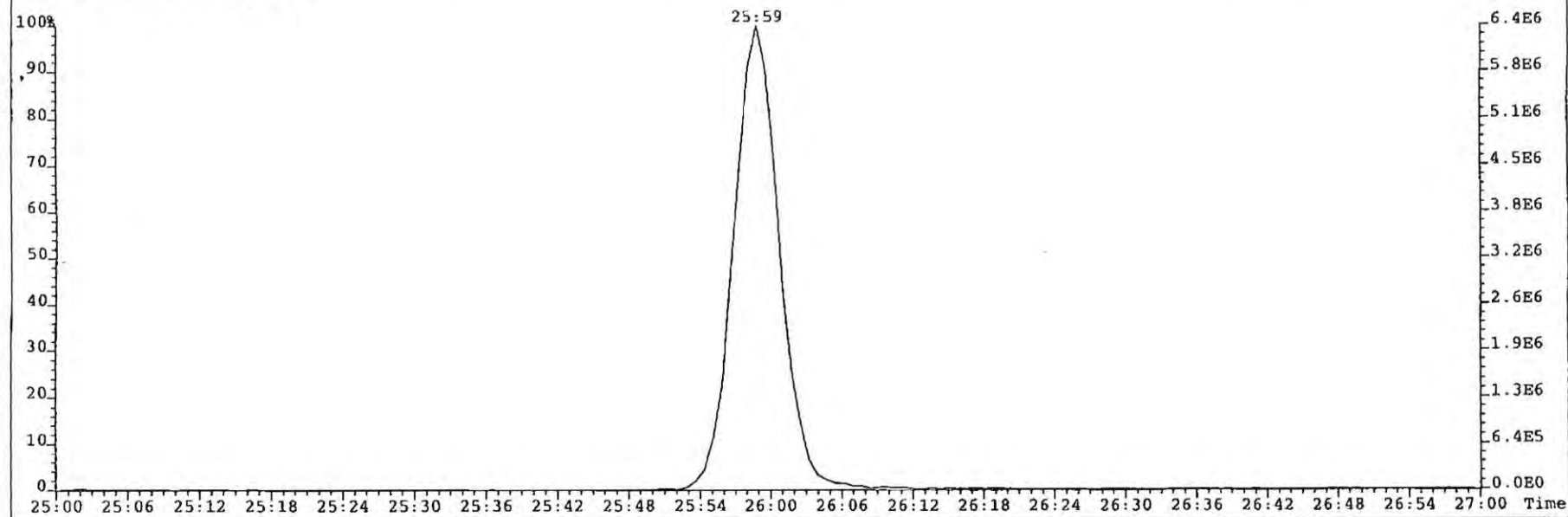
333.9339 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 126



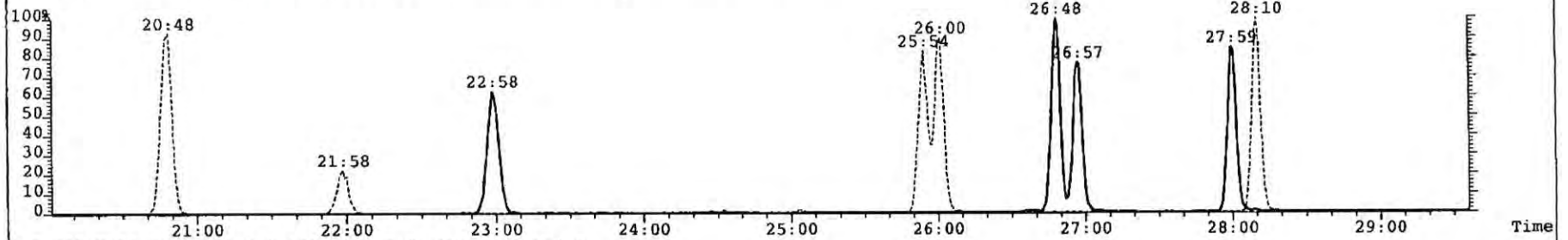
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
305.8987 S:2 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 322



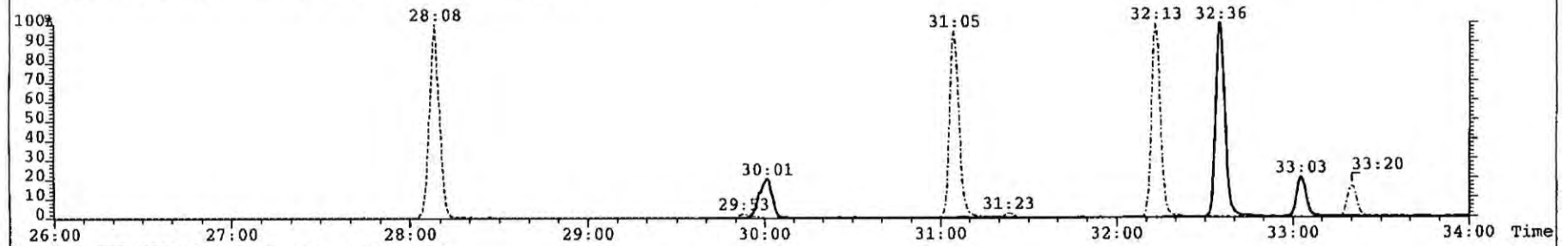
315.9419 S:2 Expt: DF_CL4-8



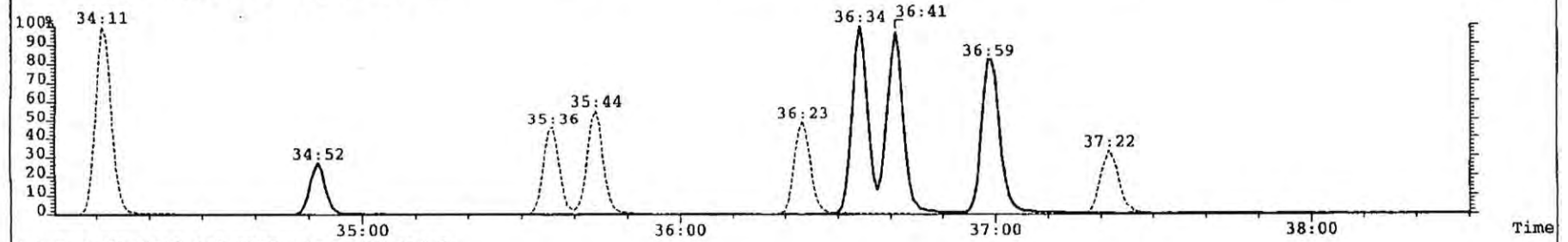
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
S:2 305.8987,321.8936 Expt: DF_CL4-8



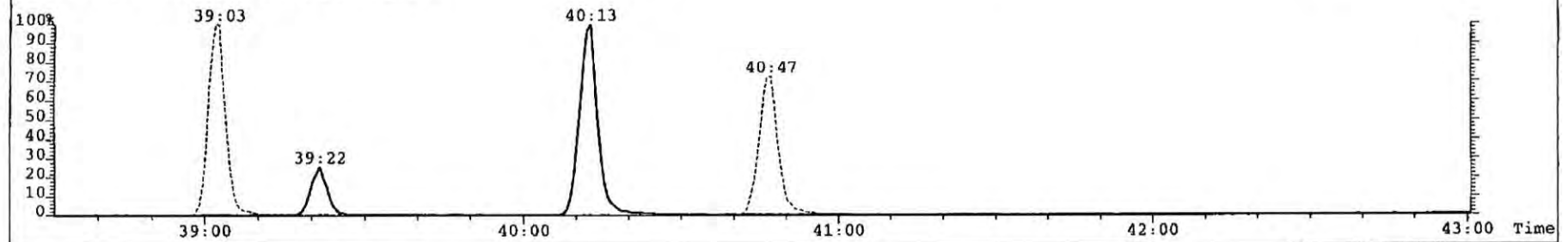
S:2 339.8597,355.8546 F:2,339.8597 F:2 Expt: DF_CL4-8



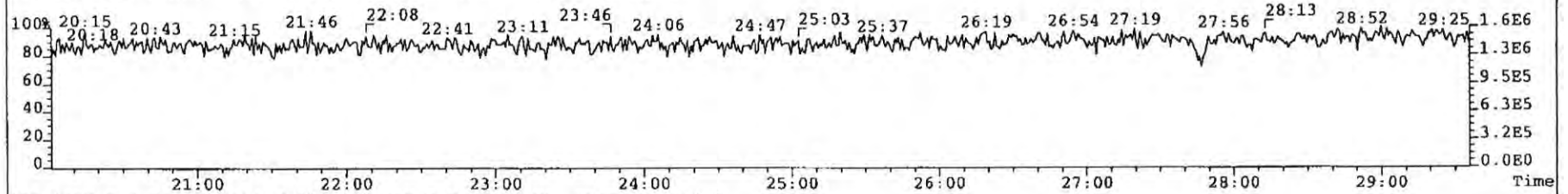
S:2 F:3 373.8207,389.8156 Expt: DF_CL4-8



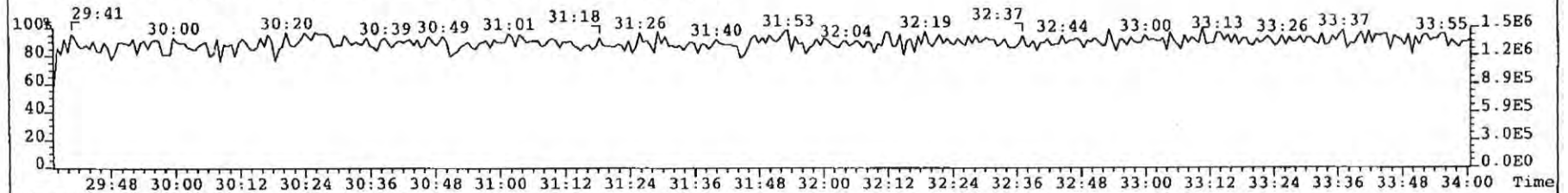
S:2 F:4 407.7818,423.7767 Expt: DF_CL4-8



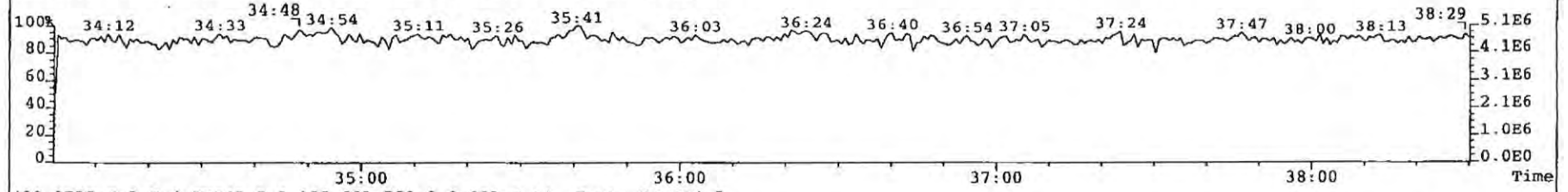
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



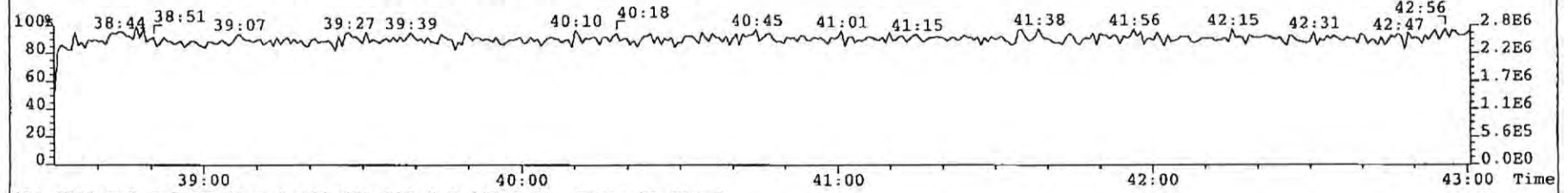
366.9792 S:2 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



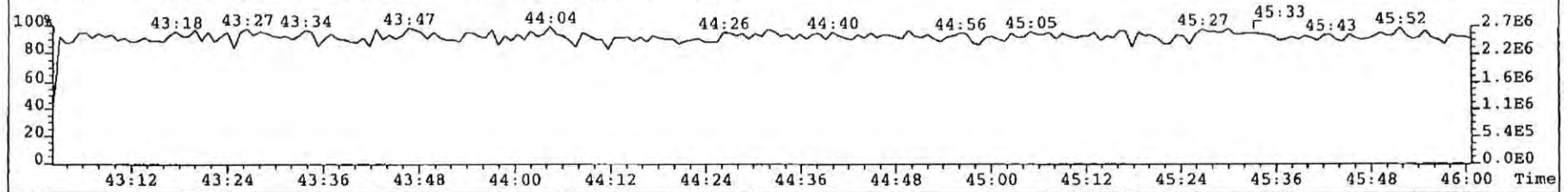
380.9760 S:2 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



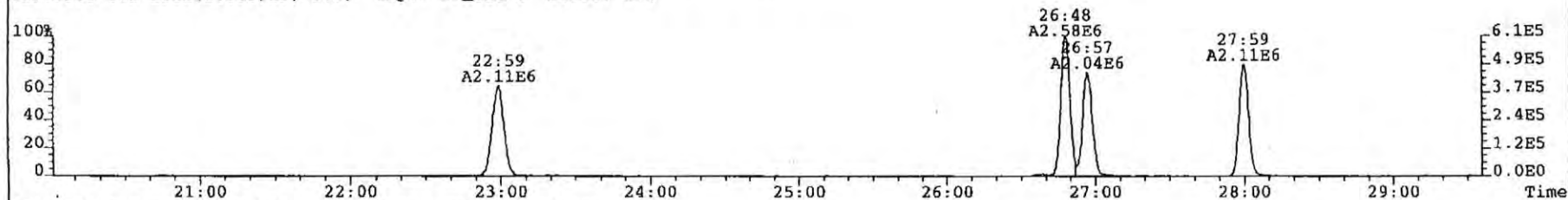
430.9728 S:2 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



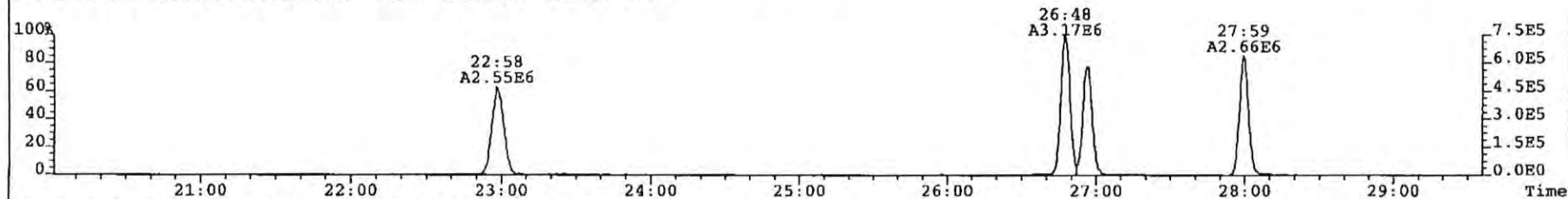
454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



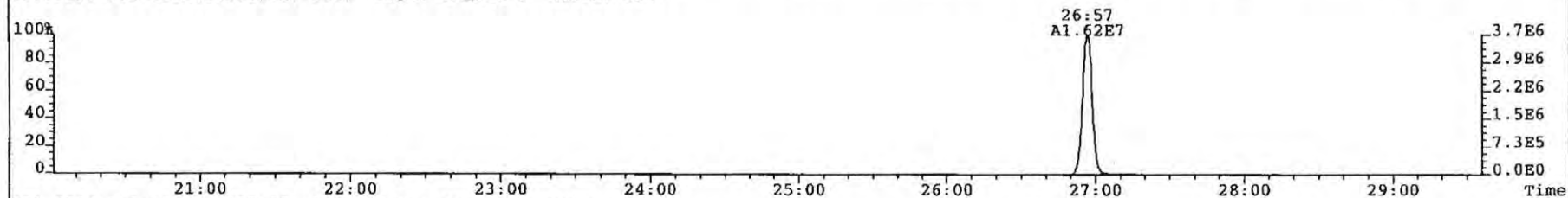
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
319.8965 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 171



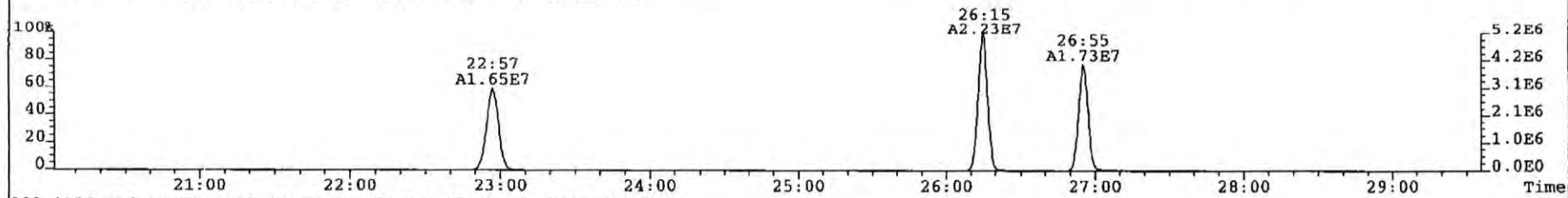
321.8936 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 131



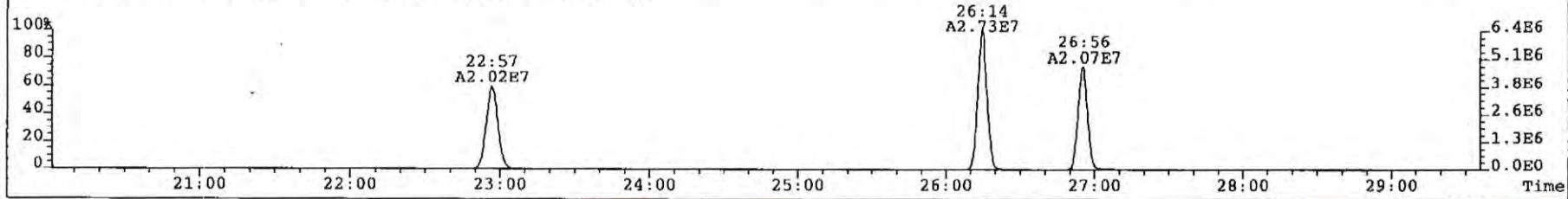
327.8850 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 135



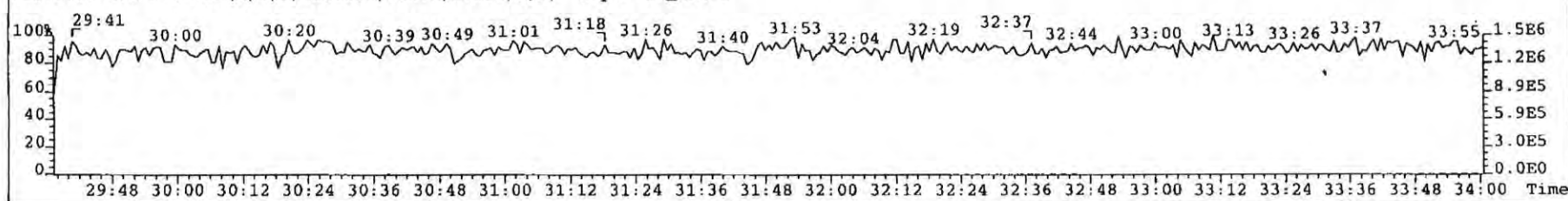
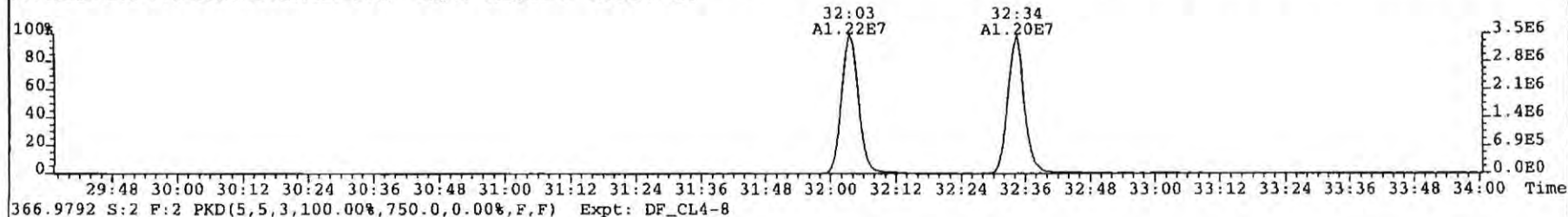
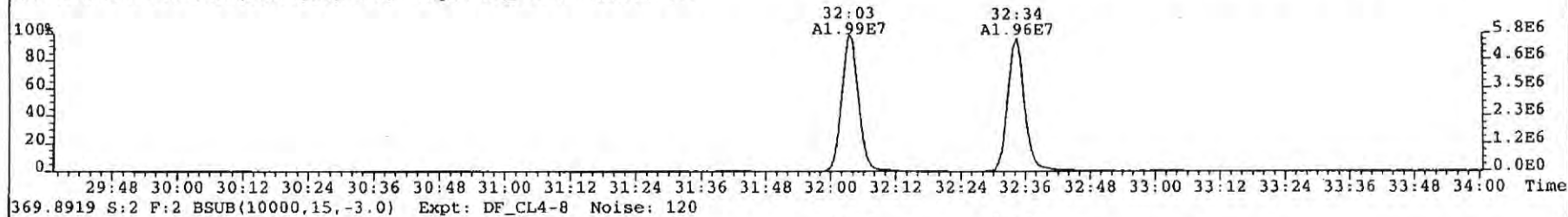
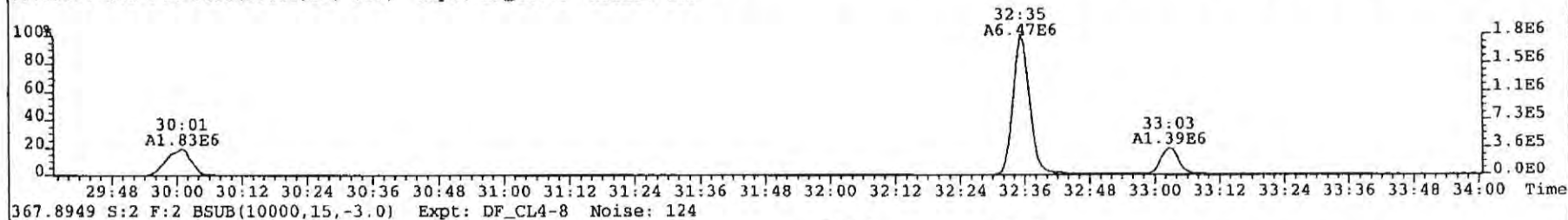
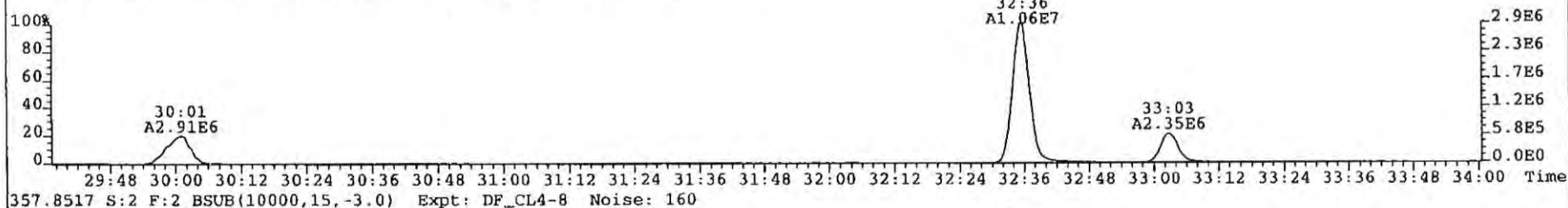
331.9368 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 137



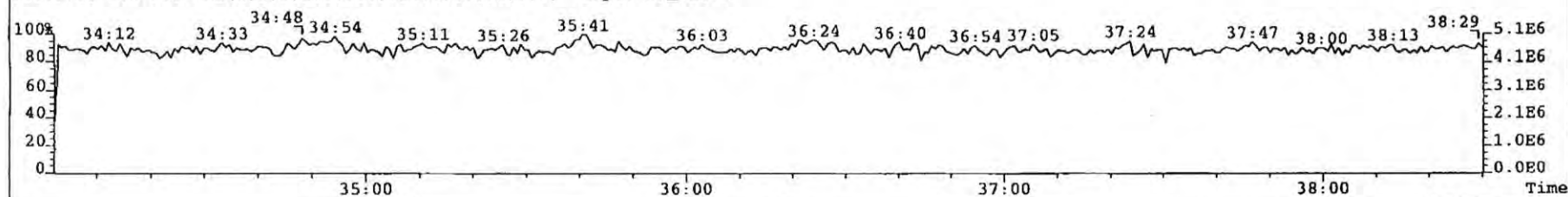
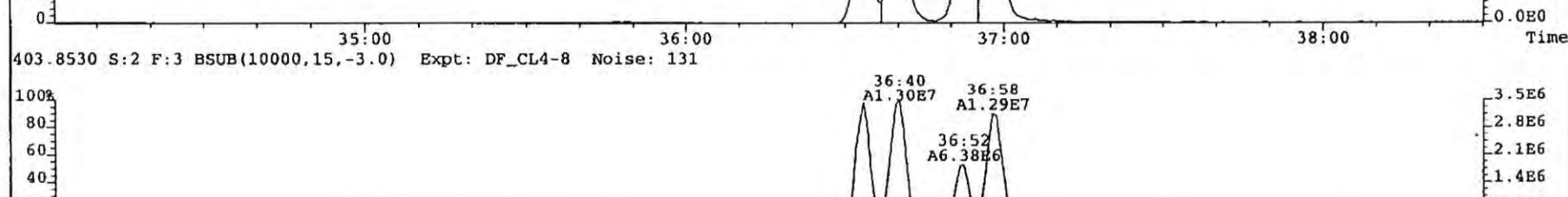
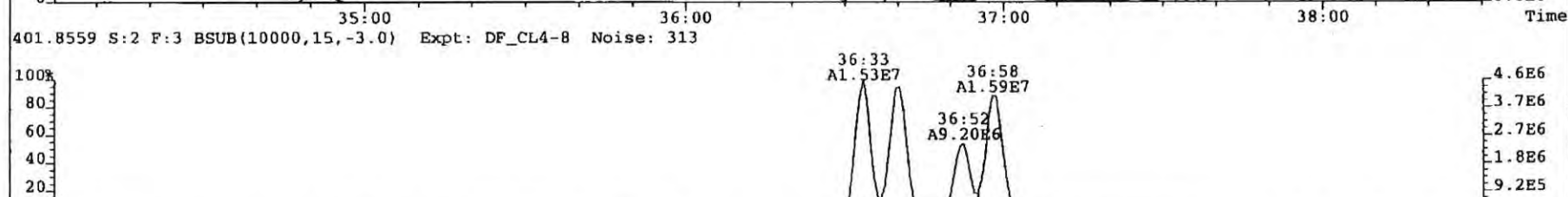
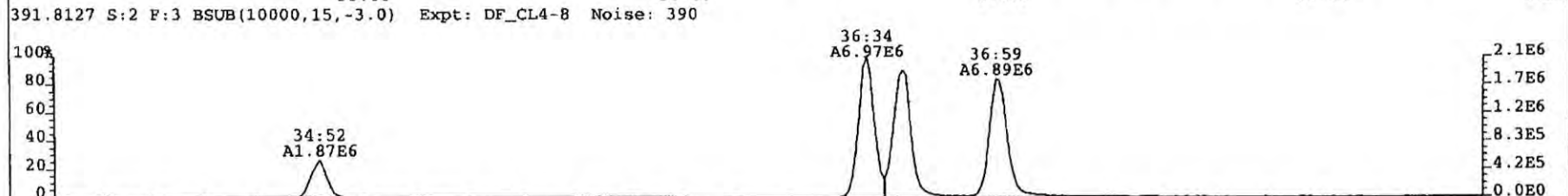
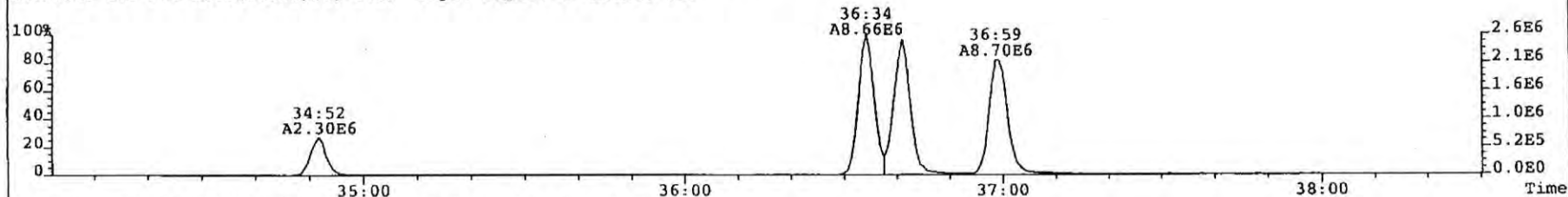
333.9339 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 126



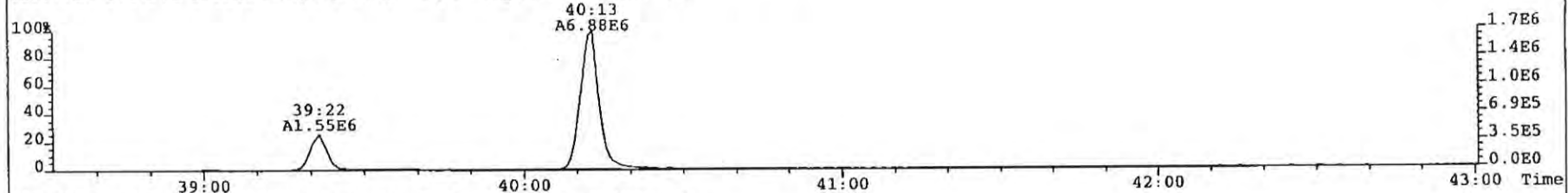
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
355.8546 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 426



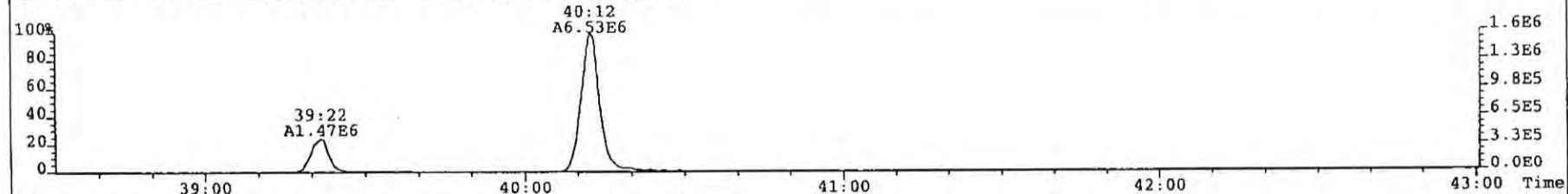
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 541



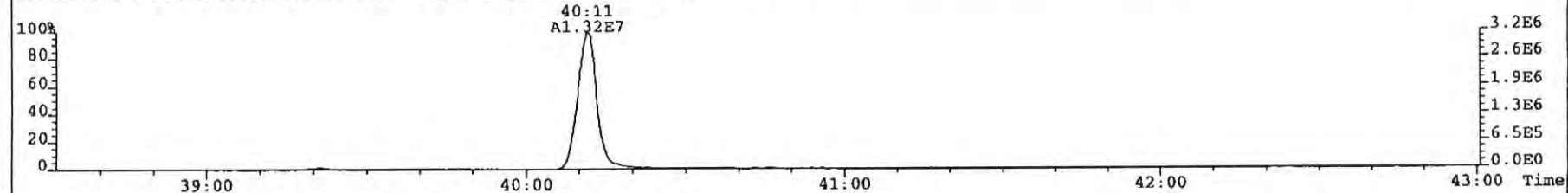
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 891



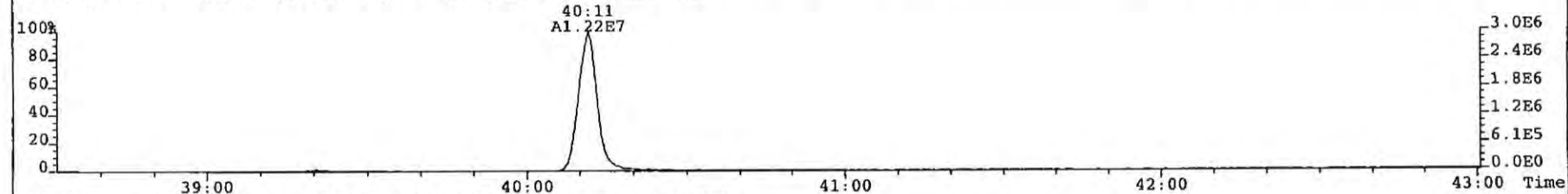
425.7737 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 794



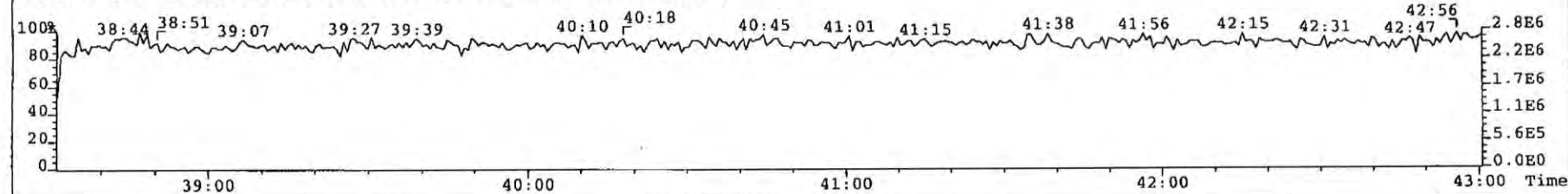
435.8169 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1408



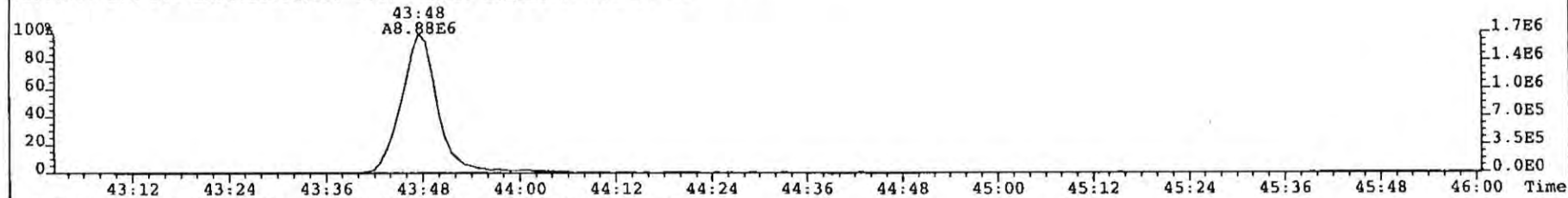
437.8140 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1881



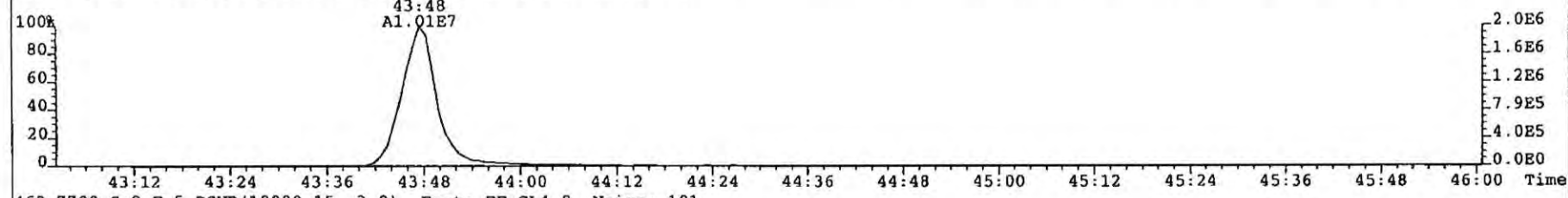
430.9728 S:2 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



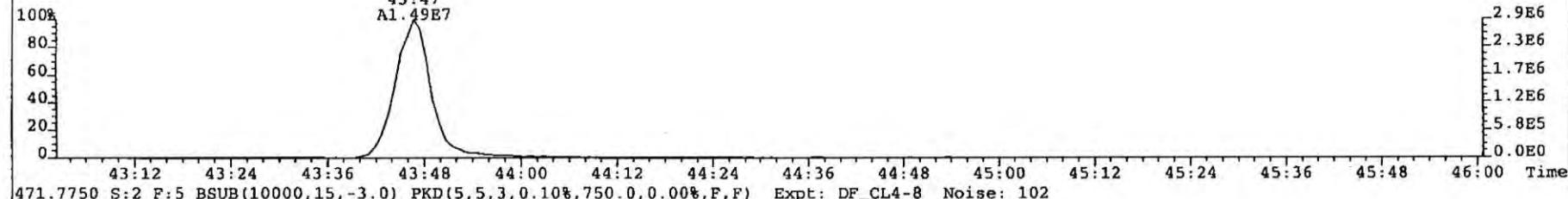
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DP 0_6630_OPR001 Vial# 92 File Text: AP DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 71



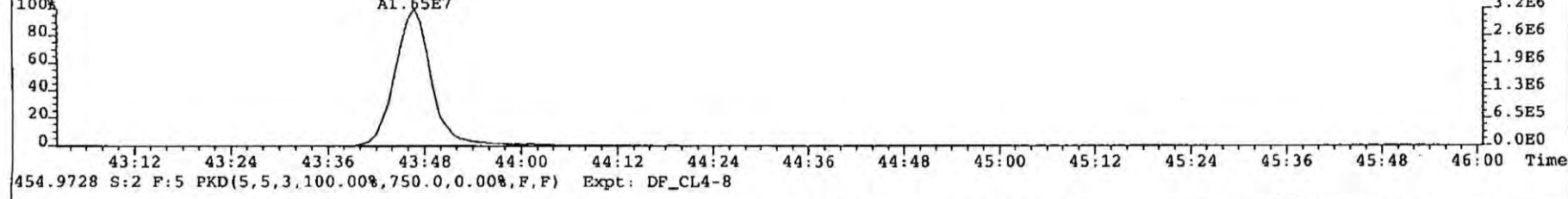
459.7348 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 74



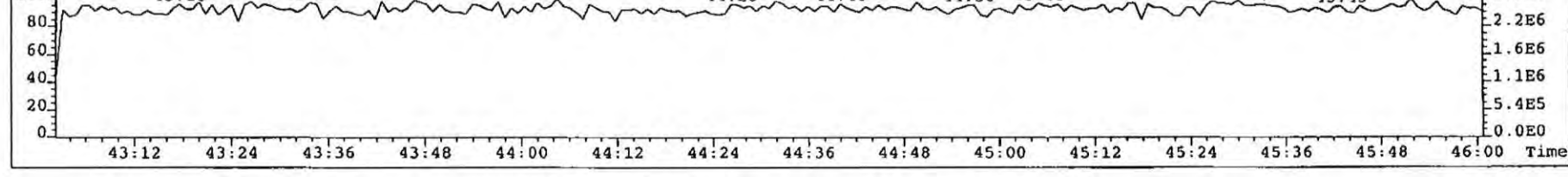
469.7780 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 101



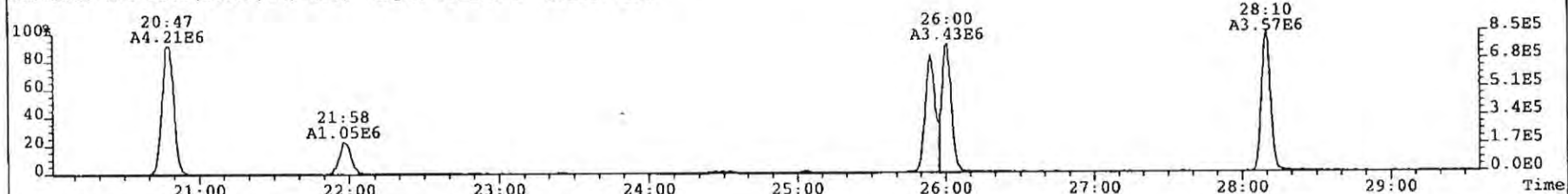
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 102



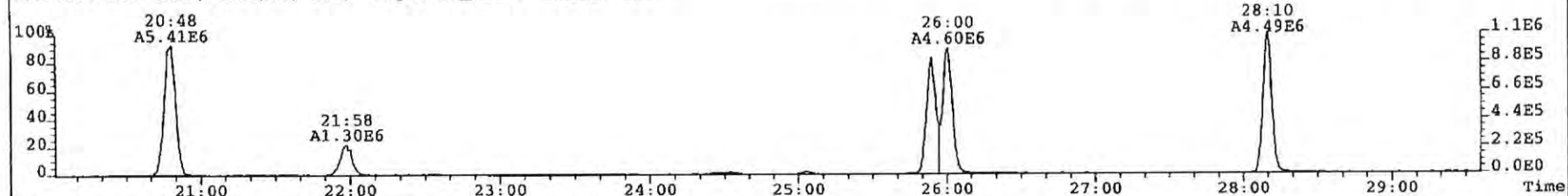
454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



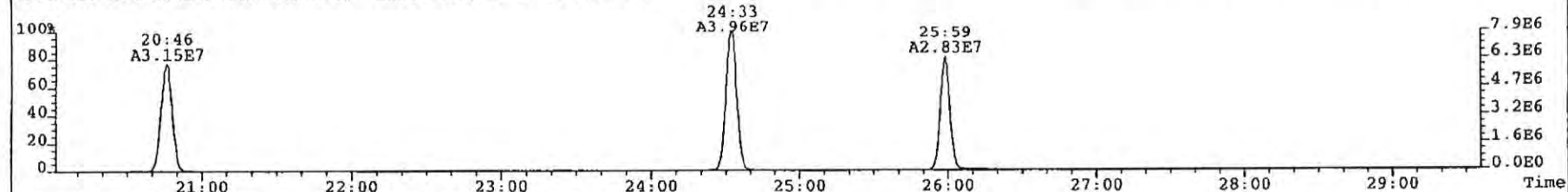
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
303.9016 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 190



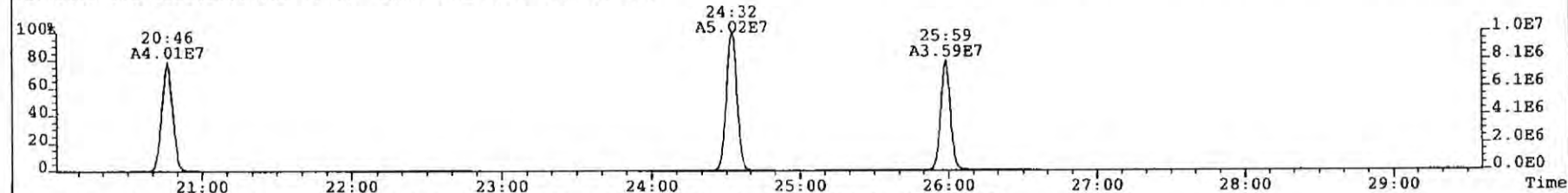
305.8987 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 322



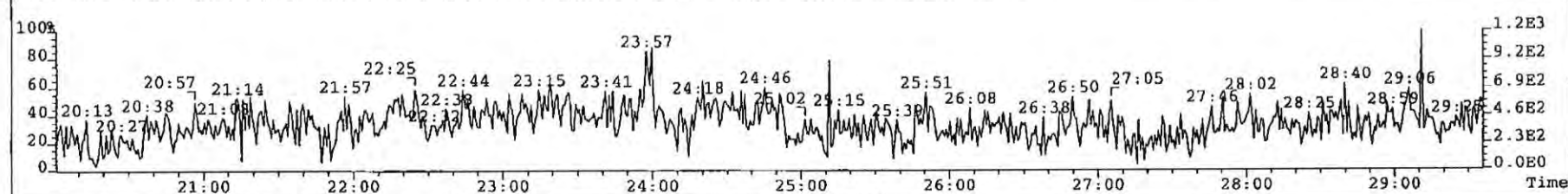
315.9419 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 139



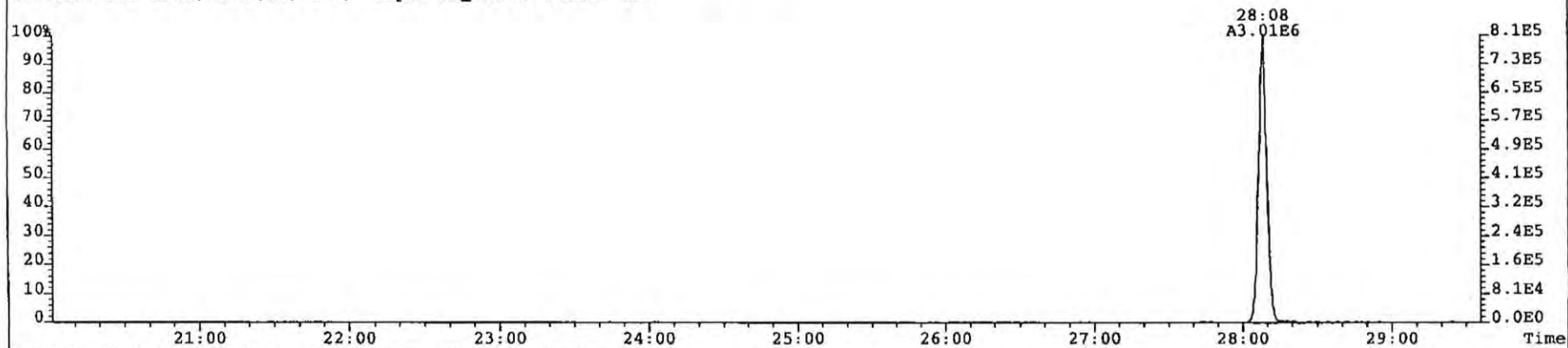
317.9389 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 139



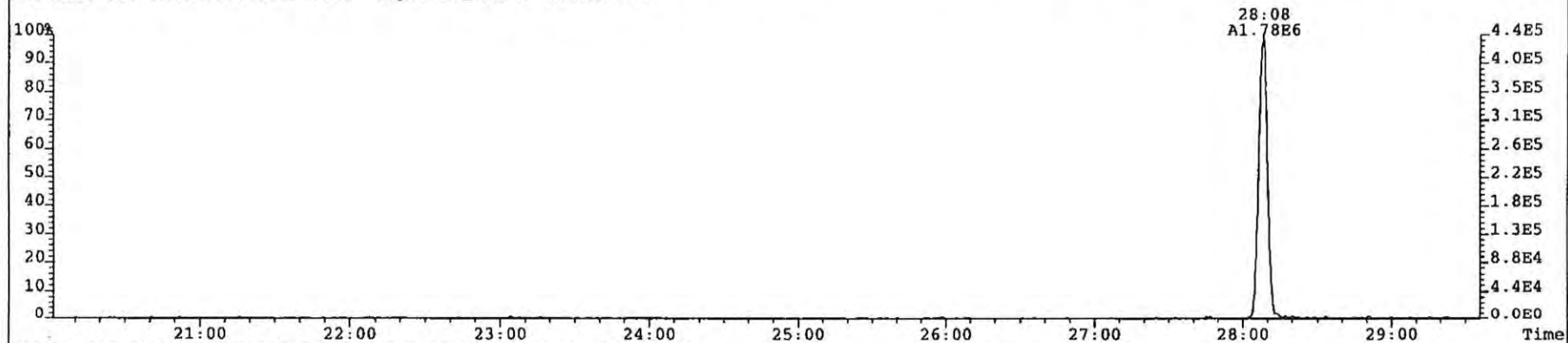
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 127



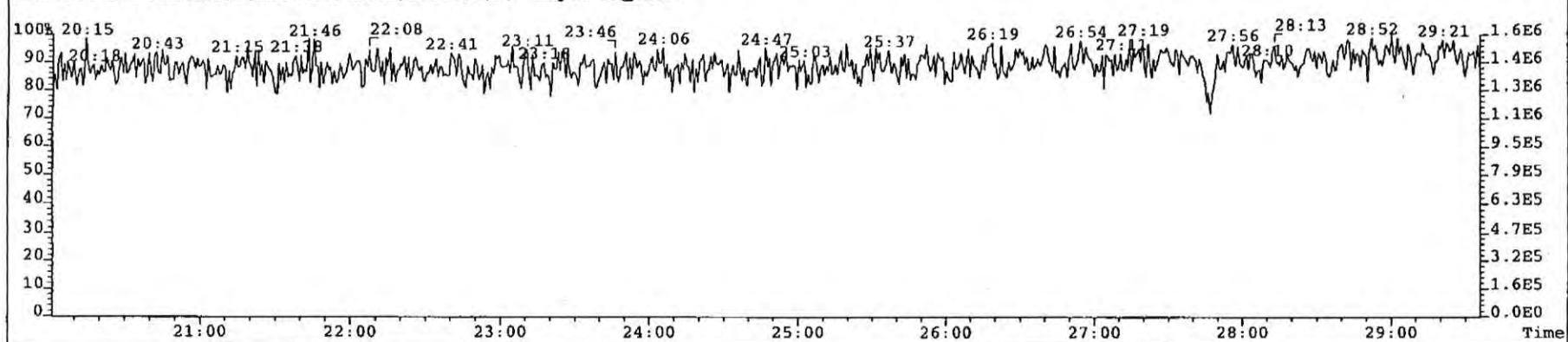
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
339.8597 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 132



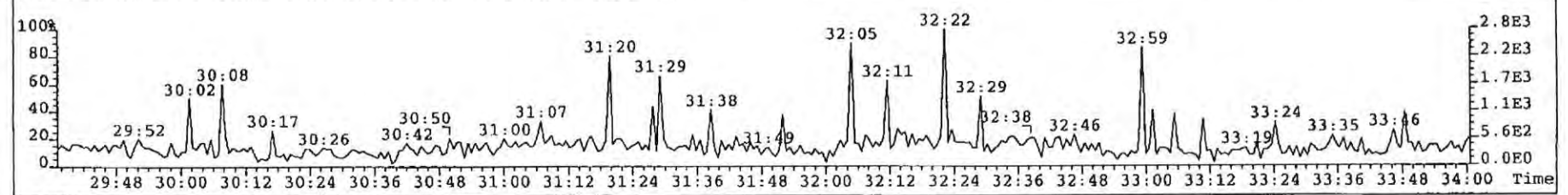
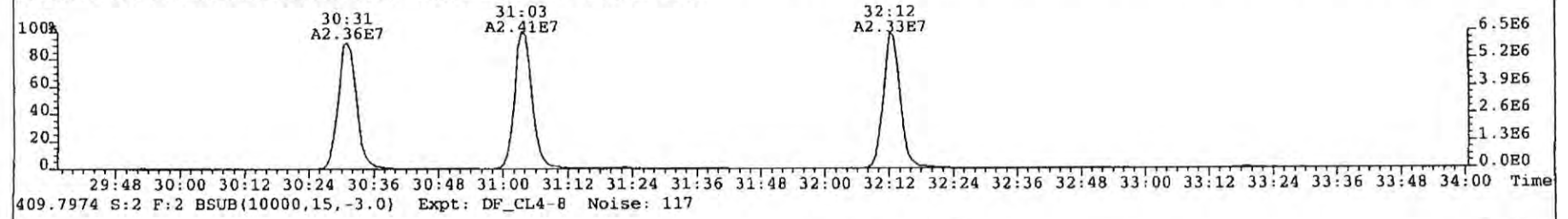
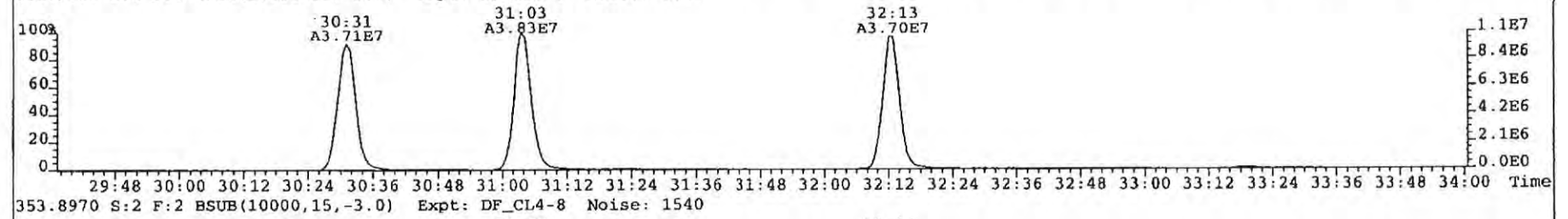
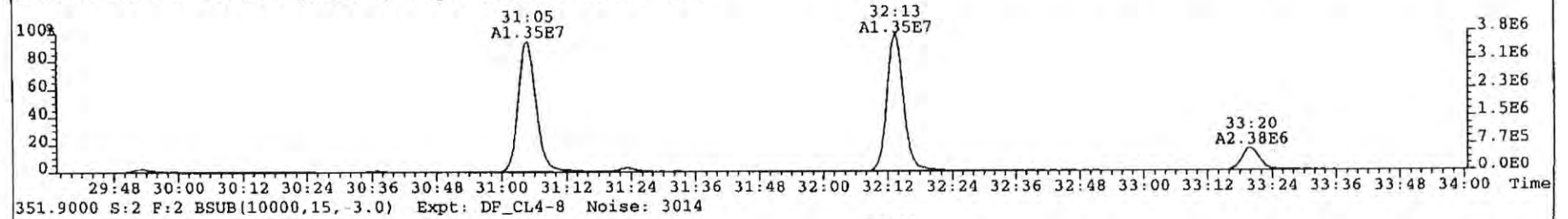
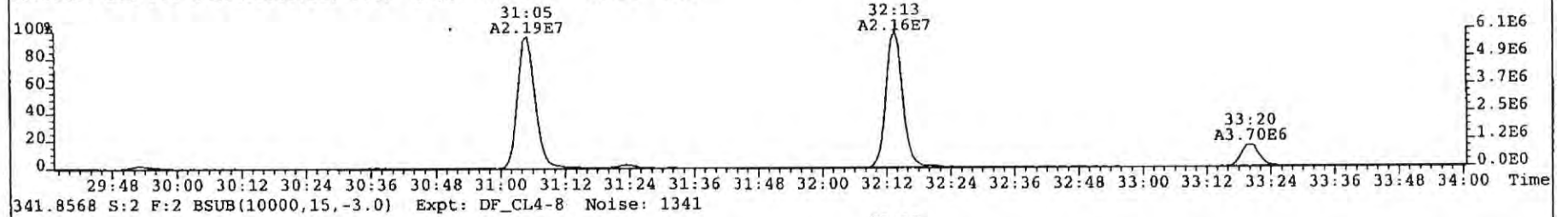
341.8568 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 132



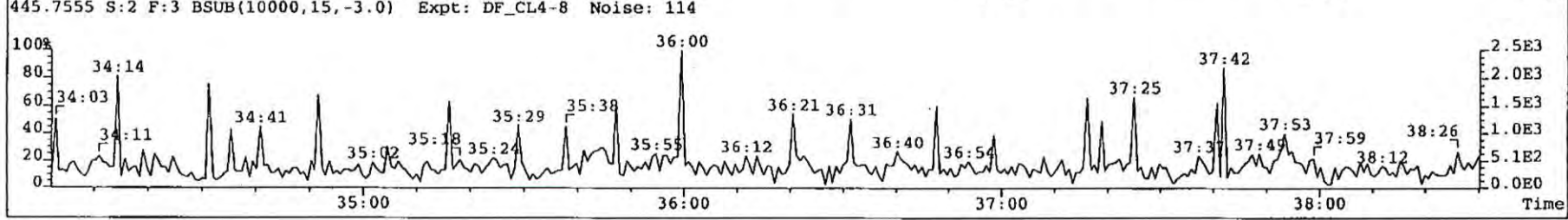
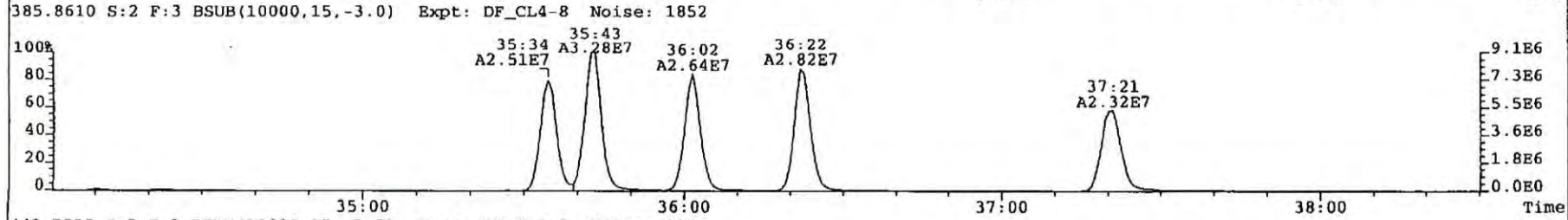
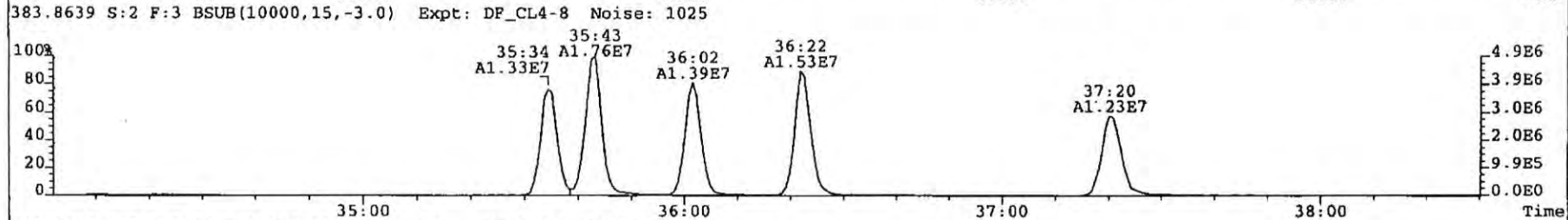
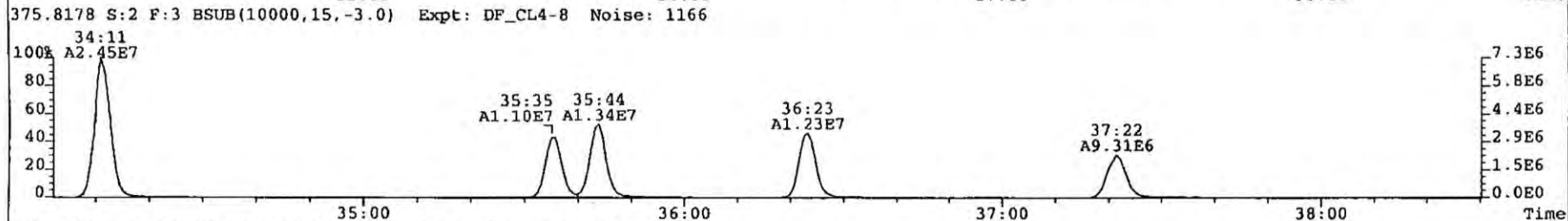
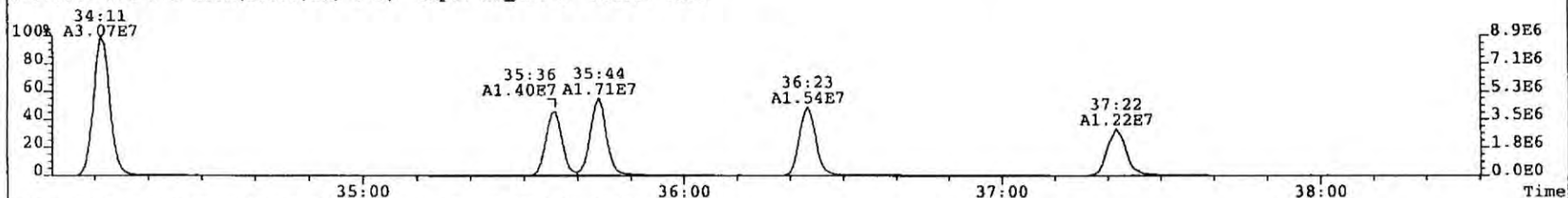
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



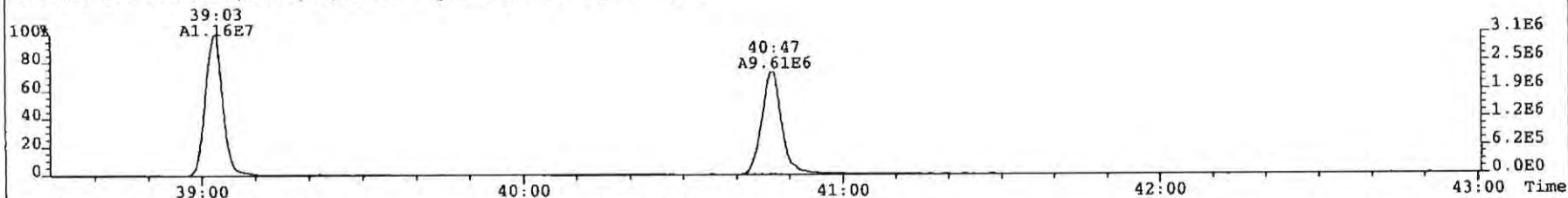
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1610



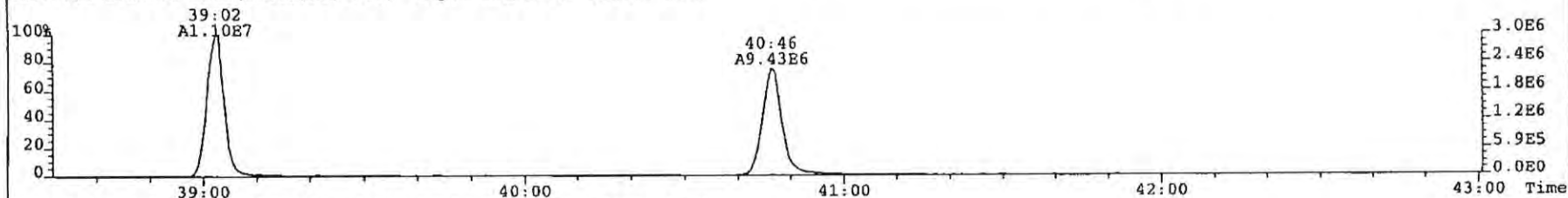
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPRI_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2080



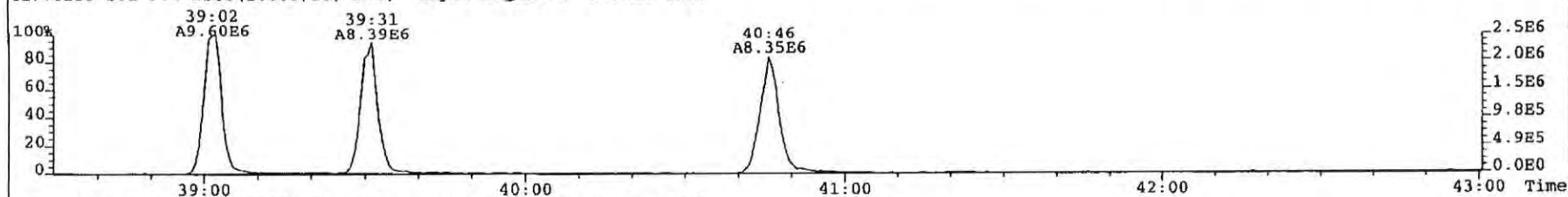
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1172



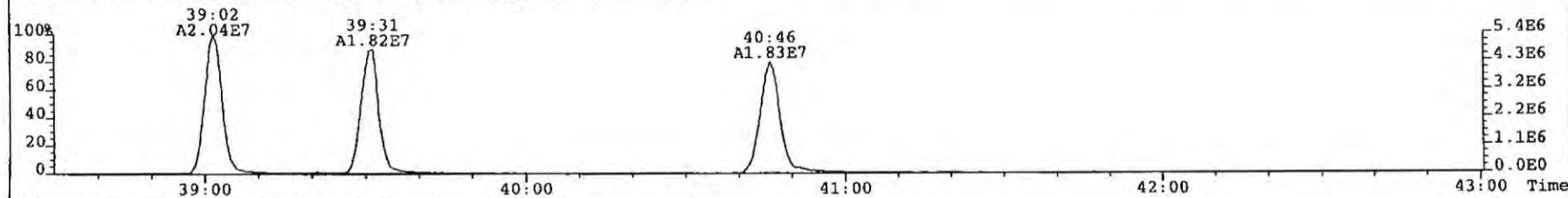
409.7788 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1315



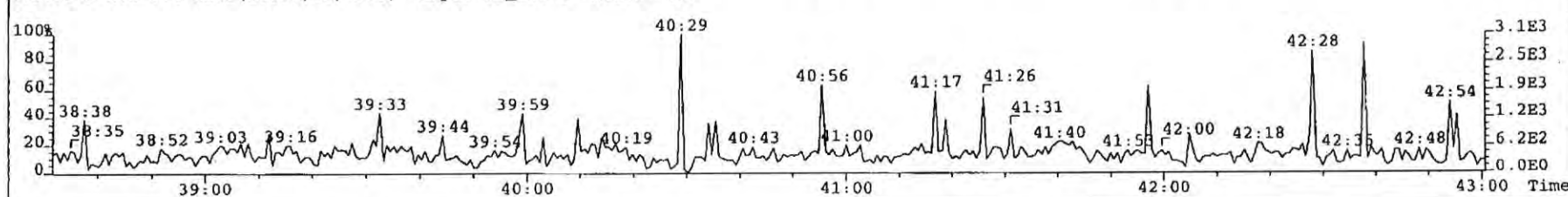
417.8253 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1579



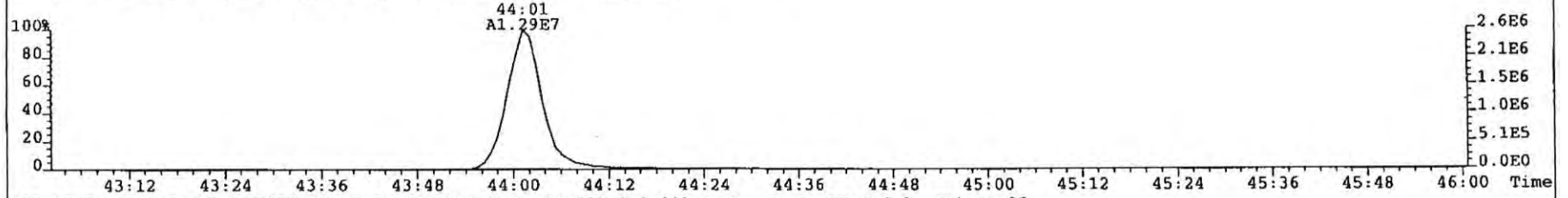
419.8220 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2968



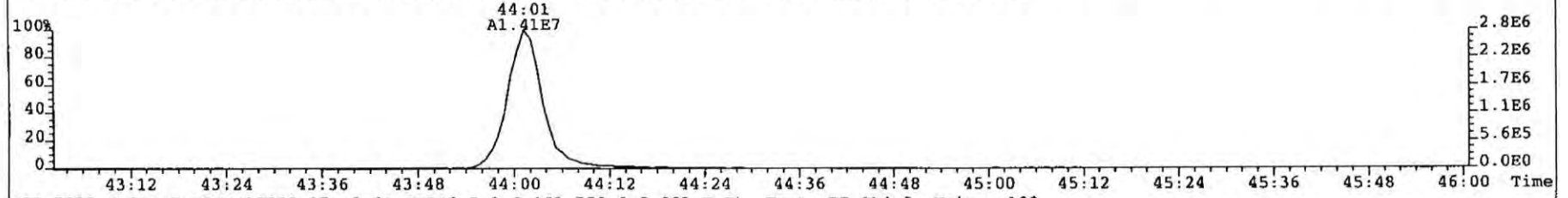
479.7165 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 127



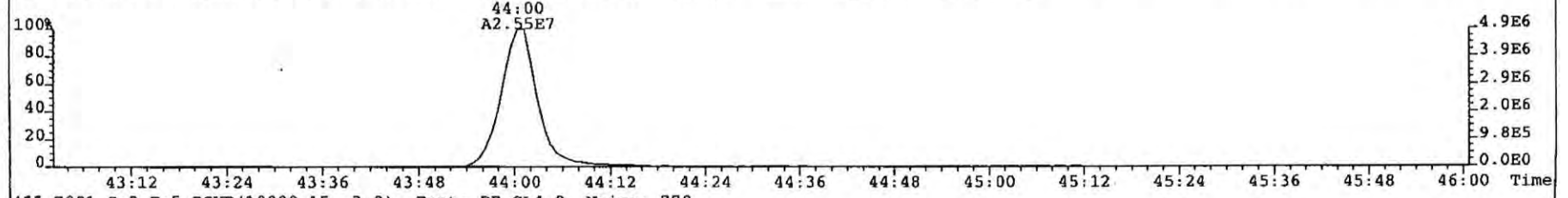
File: 090311P2 Acq: 11-MAR-2009 17:19:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6630_DF 0_6630_OPR001 Vial# 92 File Text: AP DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 80



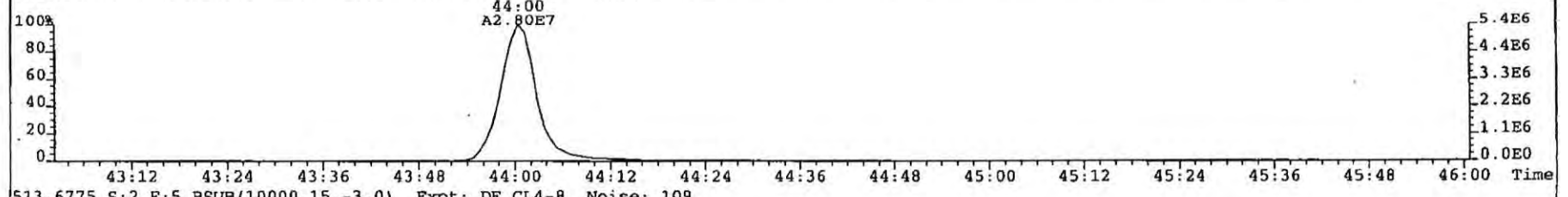
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 85



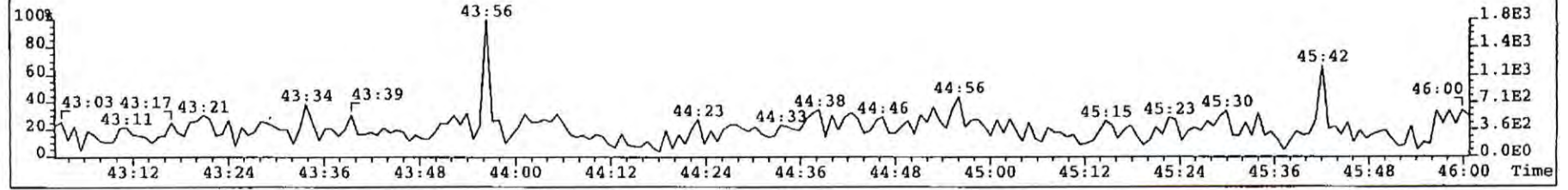
453.7830 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 108



455.7801 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 778



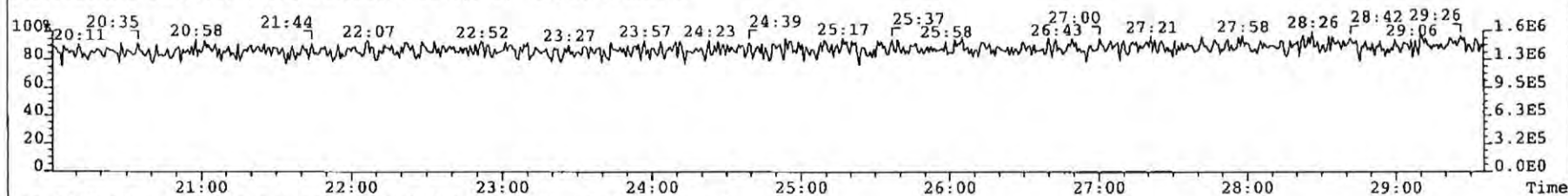
513.6775 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 109



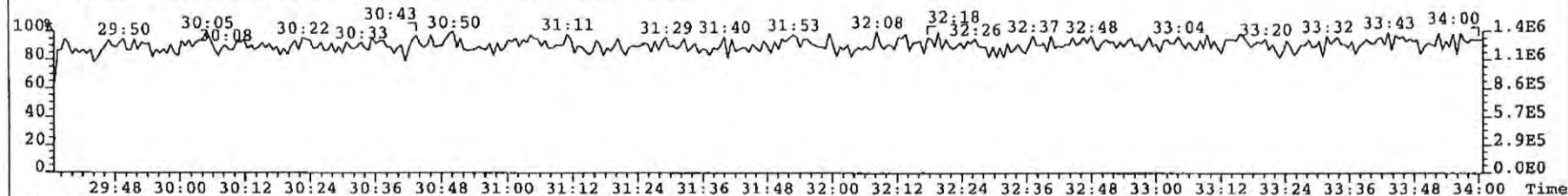
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5

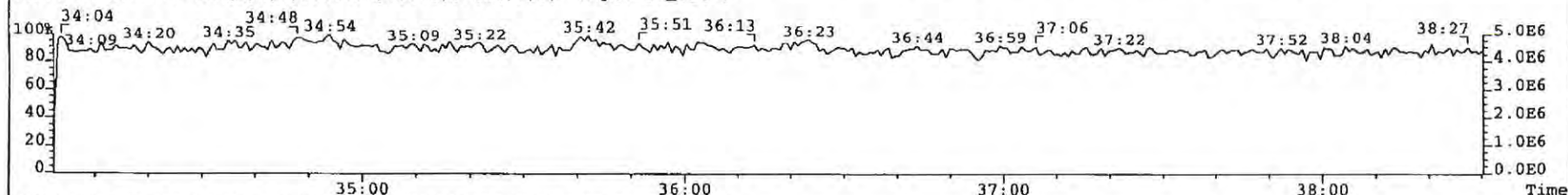
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



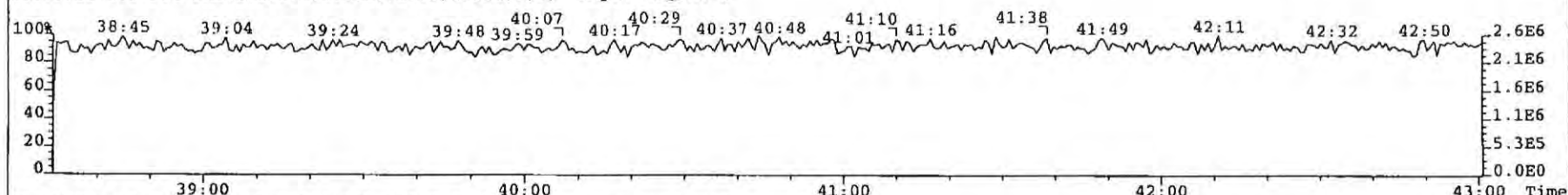
366.9792 S:3 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



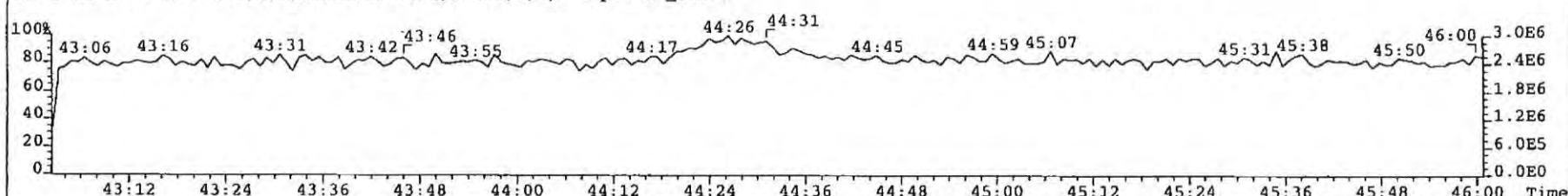
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



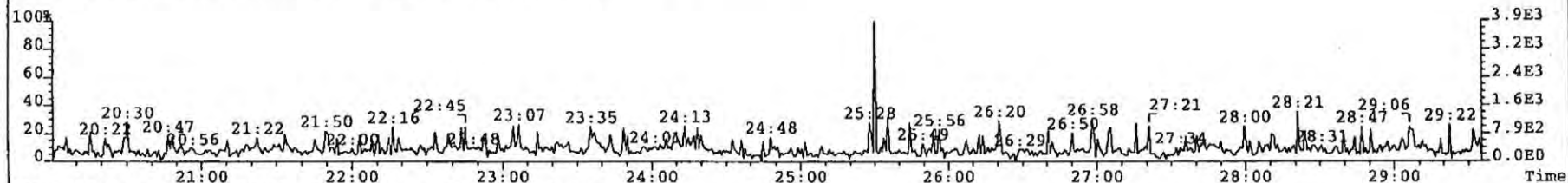
430.9728 S:3 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



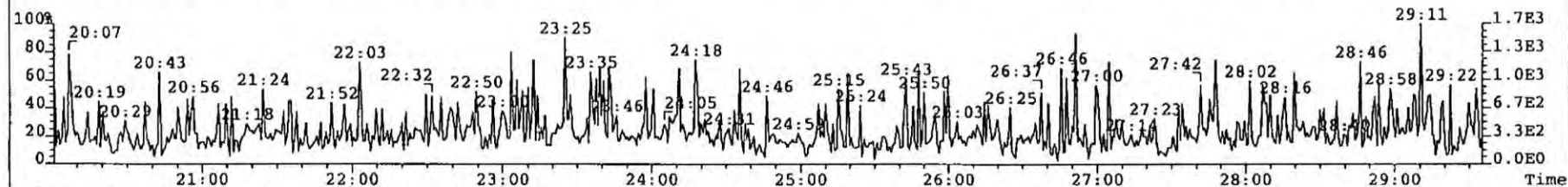
454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



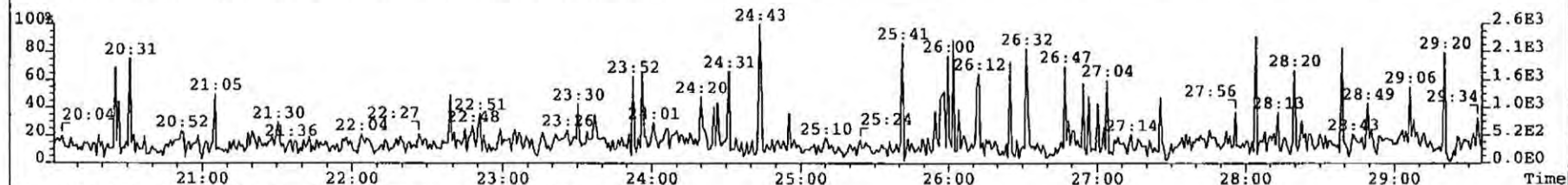
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
319.8965 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



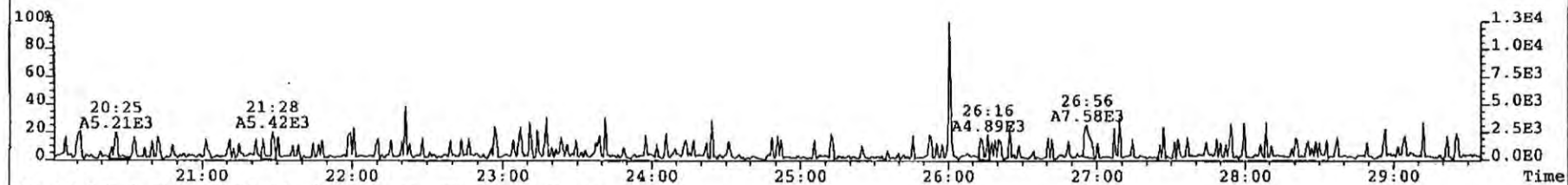
321.8936 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 100



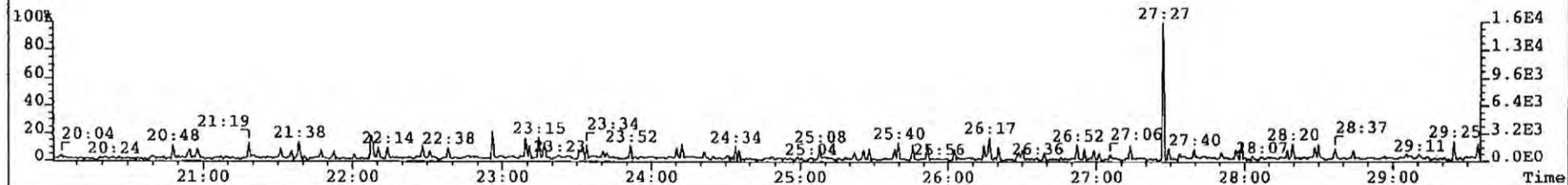
327.8850 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 110



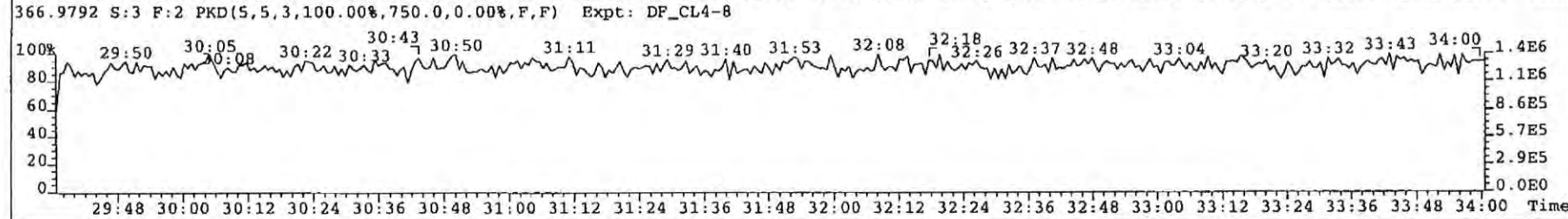
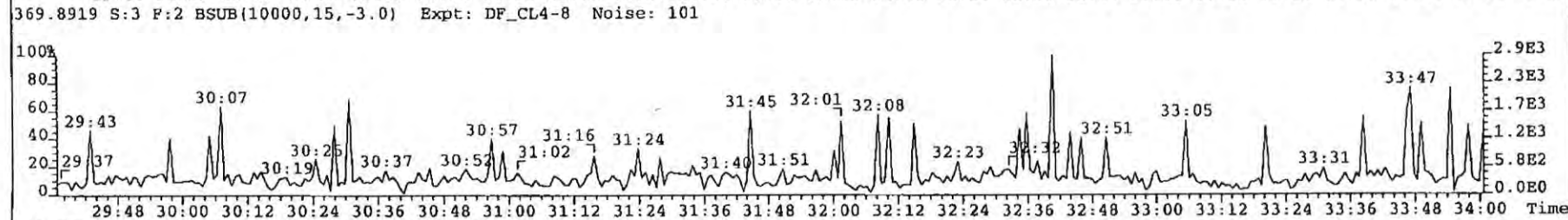
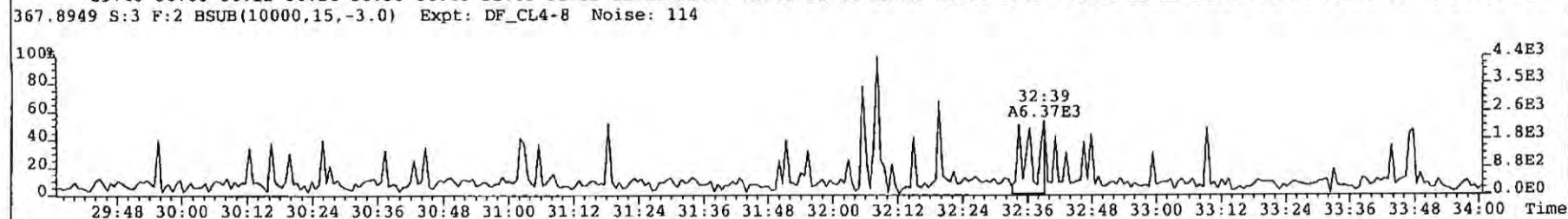
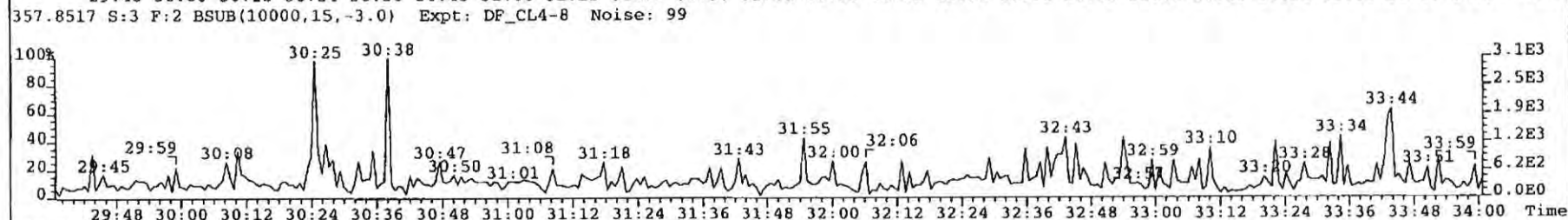
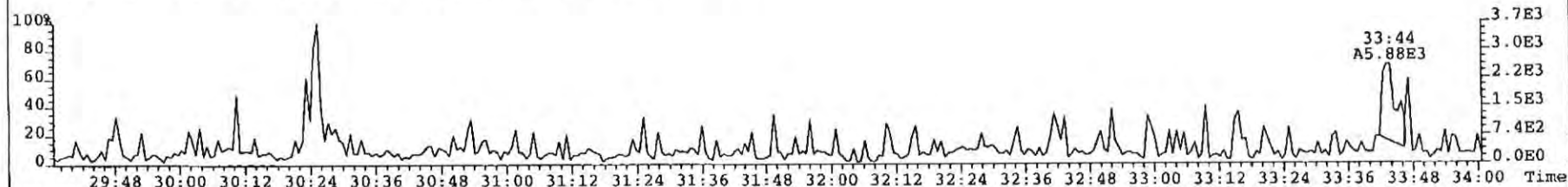
331.9368 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 121



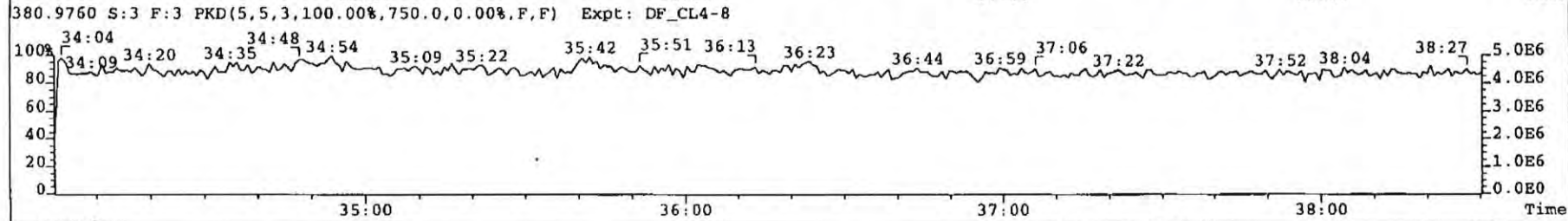
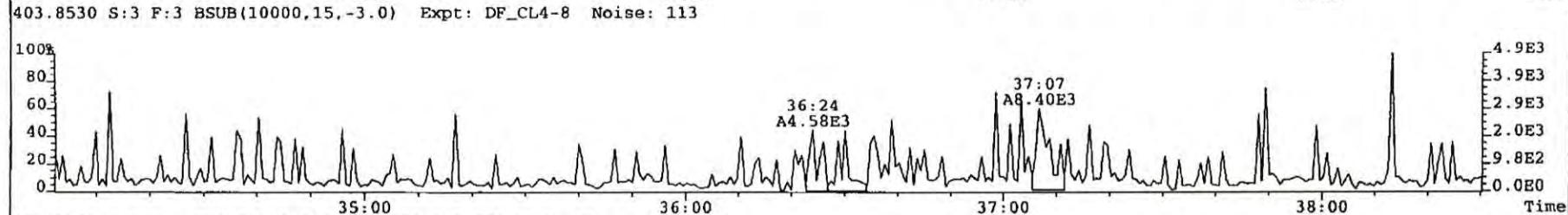
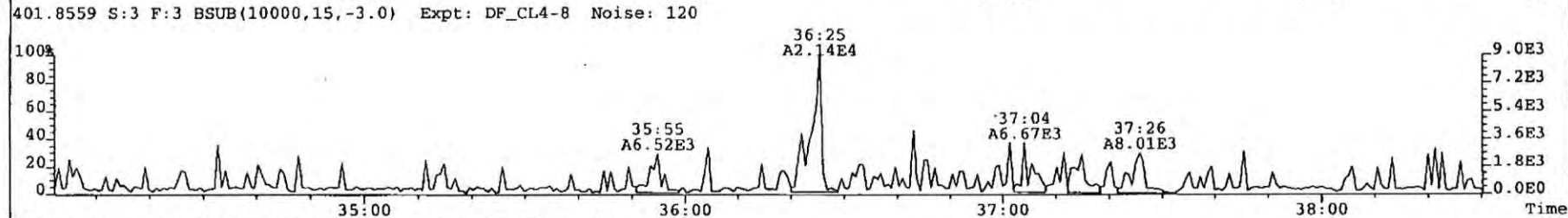
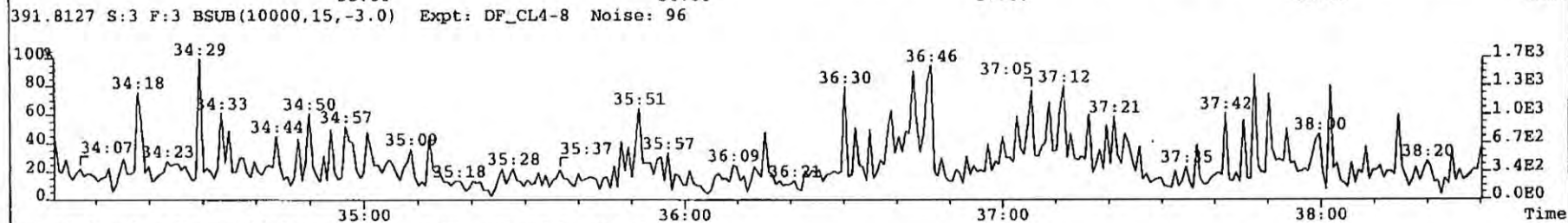
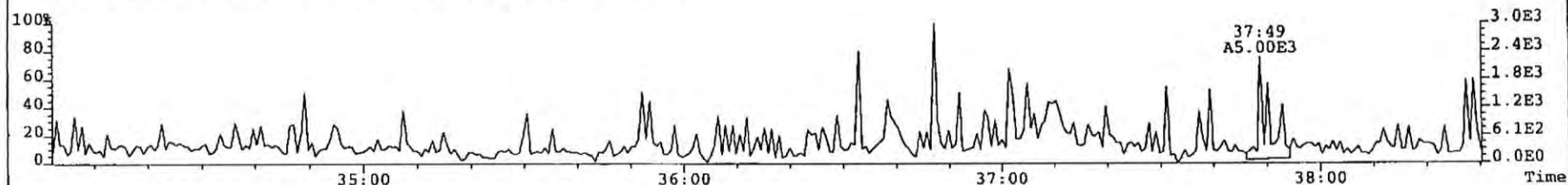
333.9339 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 112



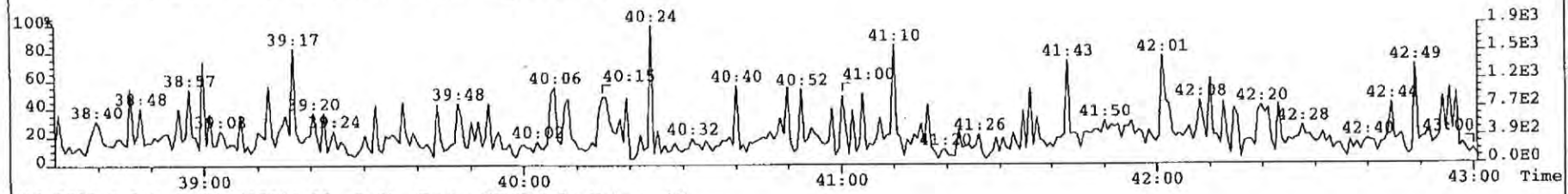
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
355.8546 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 84



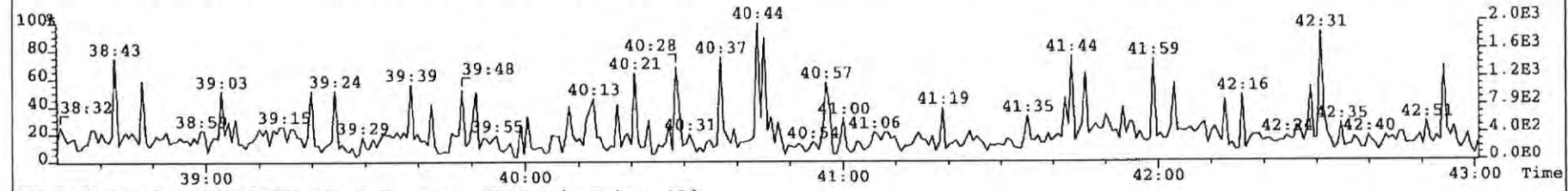
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 98



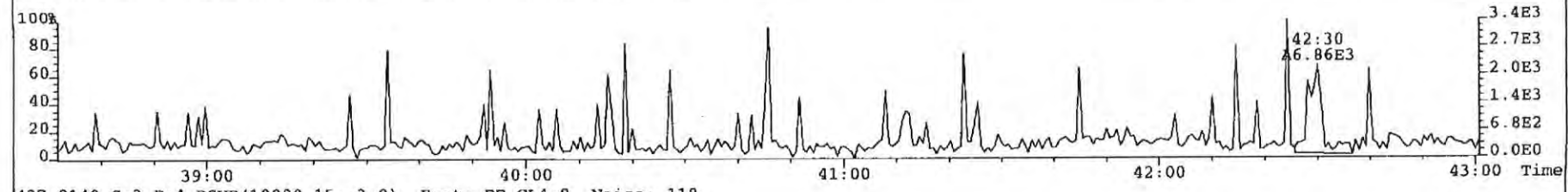
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
423.7767 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 98



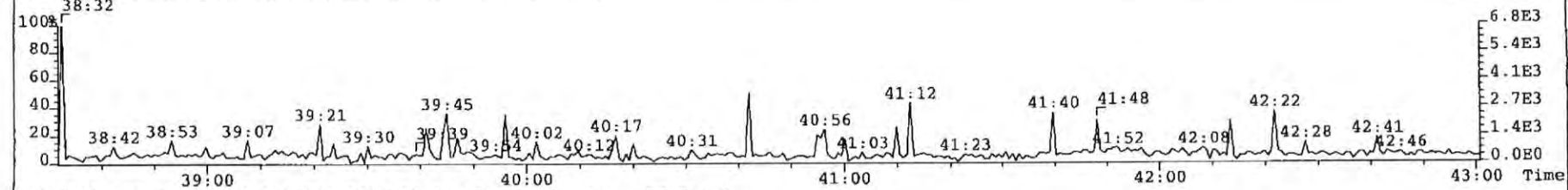
425.7737 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



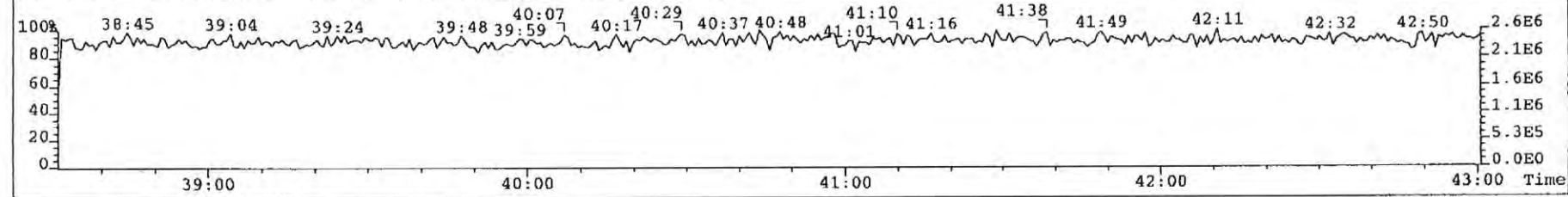
435.8169 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 106



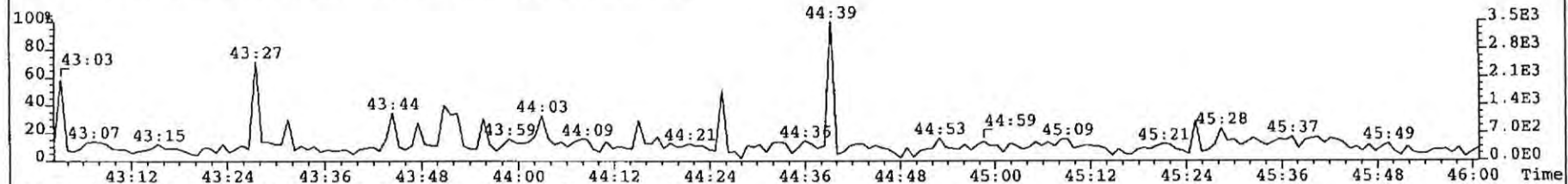
437.8140 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 118



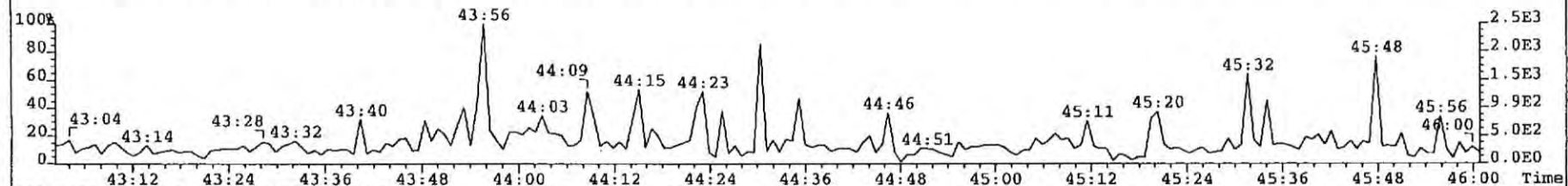
430.9728 S:3 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



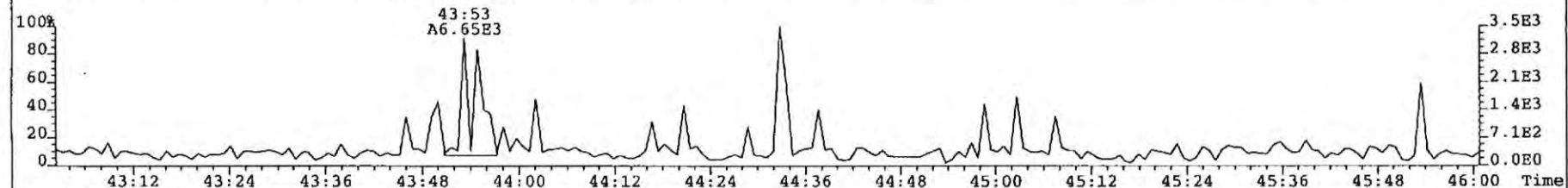
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 115



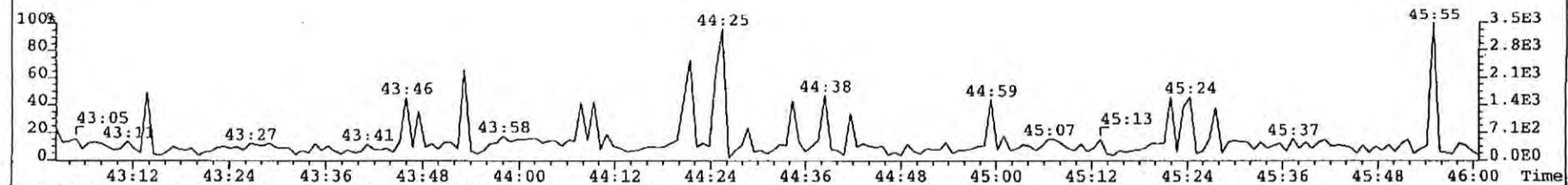
459.7348 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 91



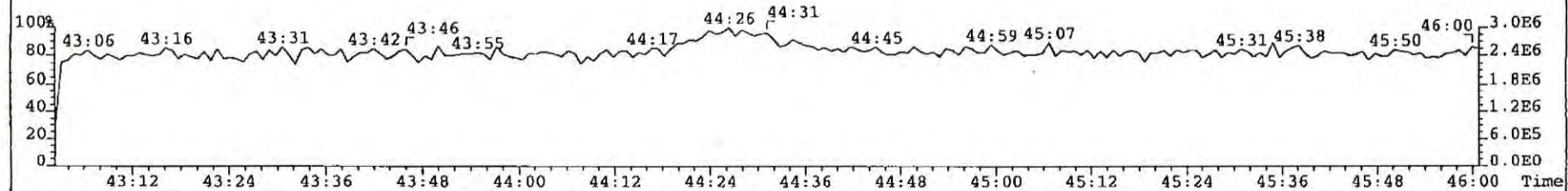
469.7780 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 103



471.7750 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 111

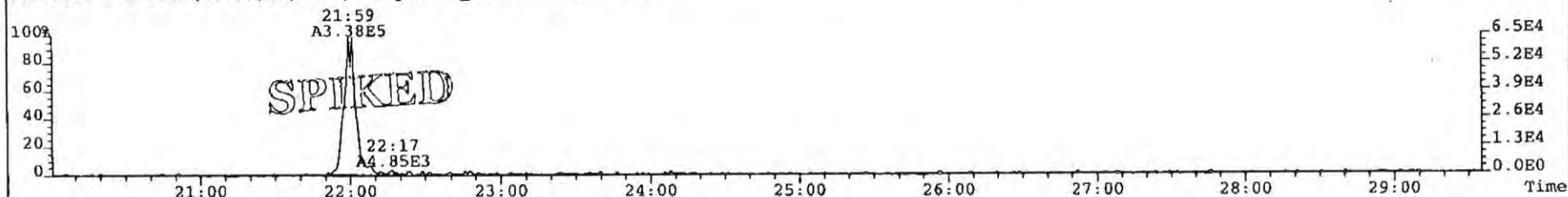


454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8

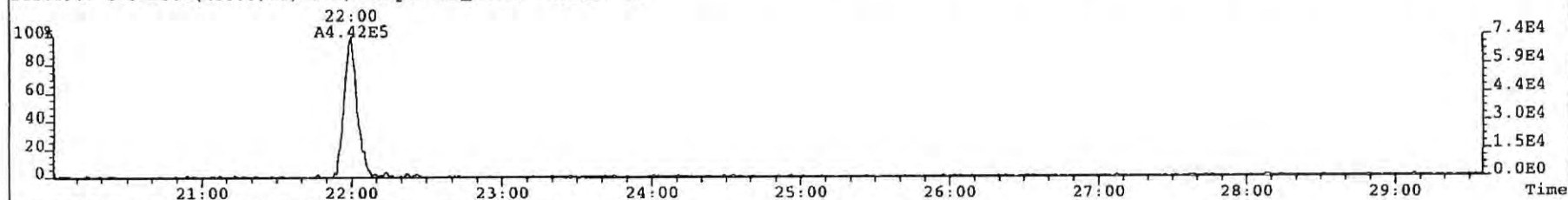


454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8

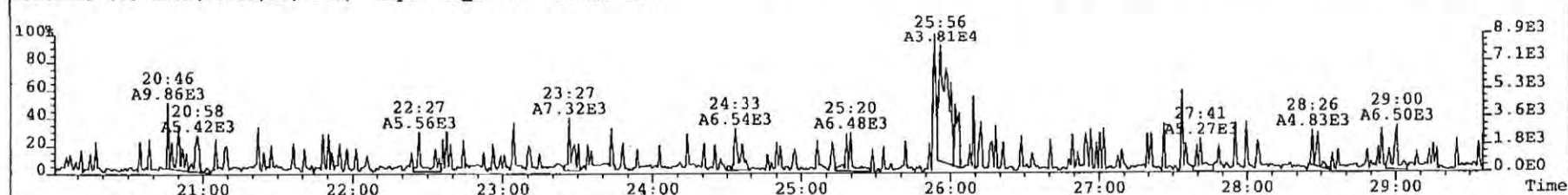
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
303.9016 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 94



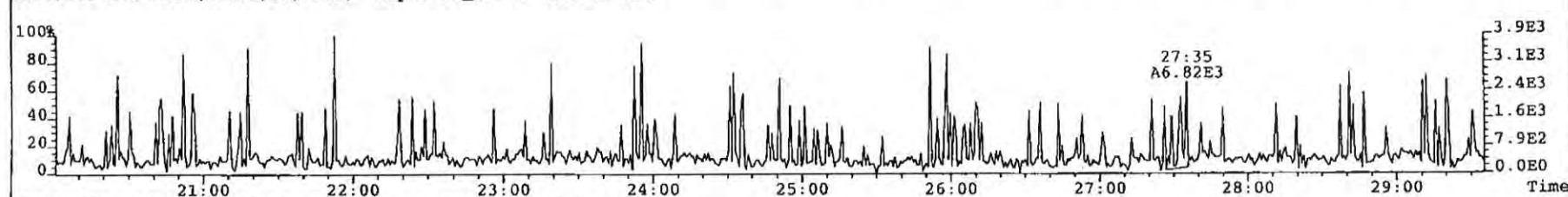
305.8987 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



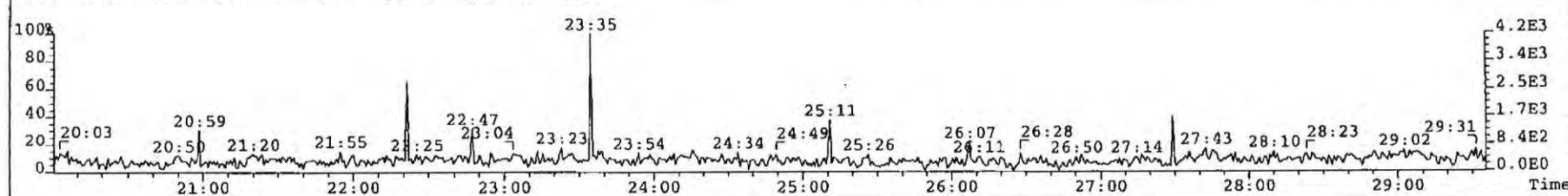
315.9419 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 116



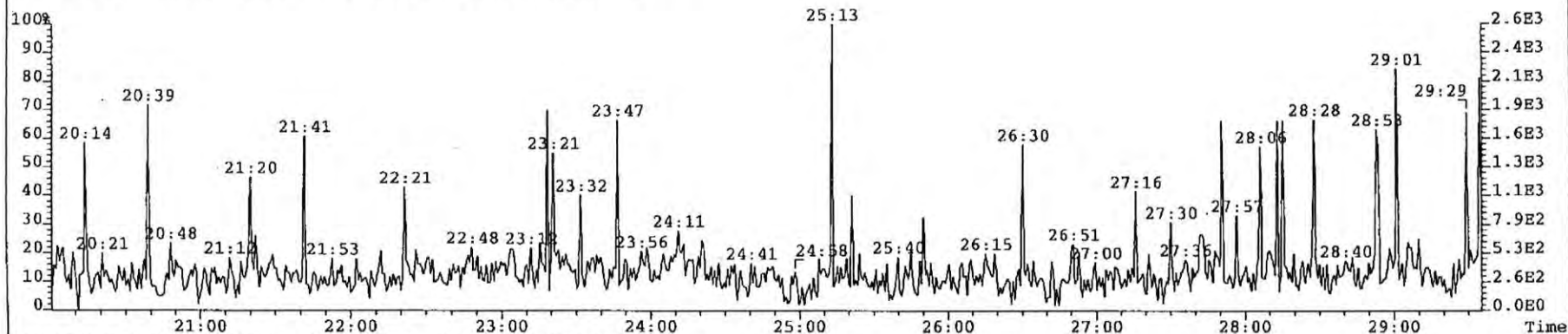
317.9389 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 121



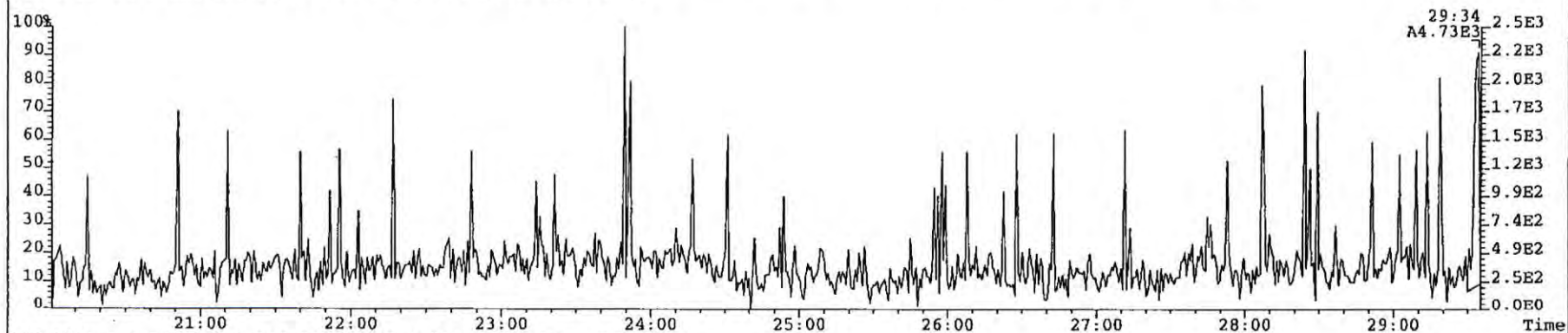
375.8364 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 112



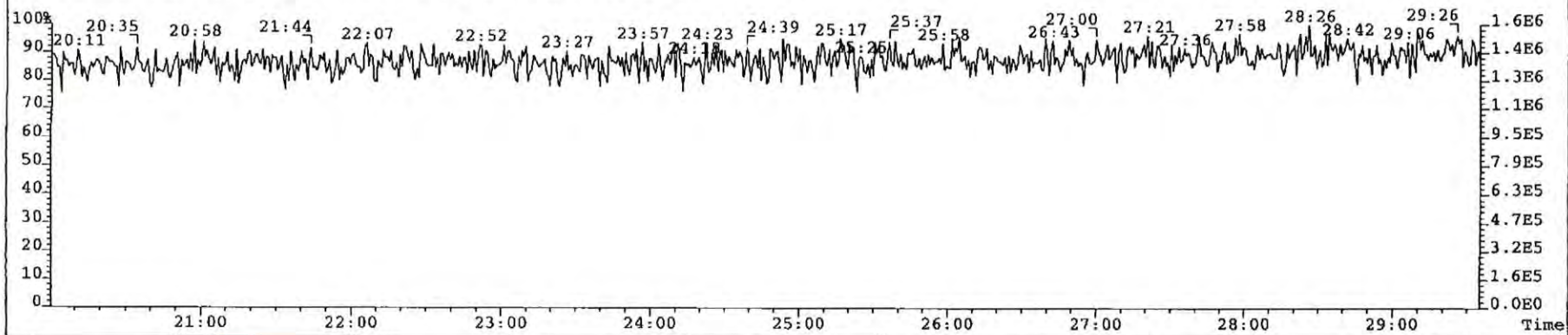
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
339.8597 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 104



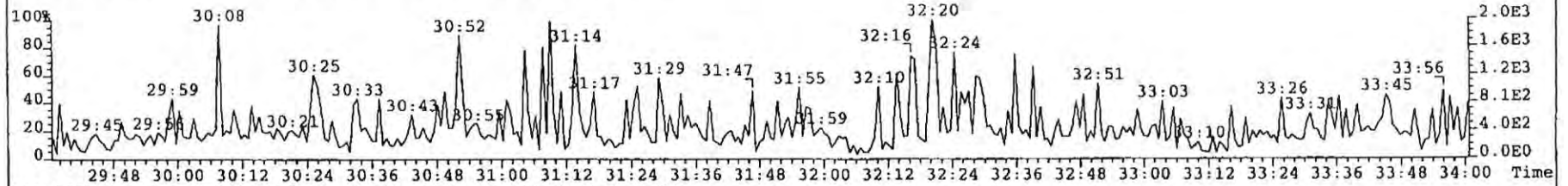
341.8568 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 111



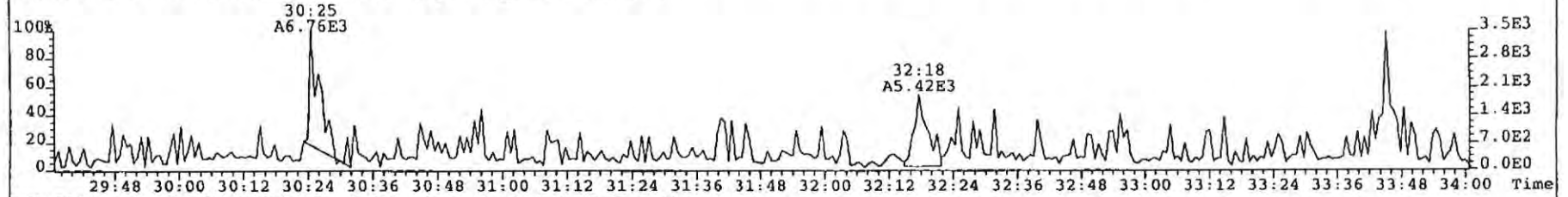
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



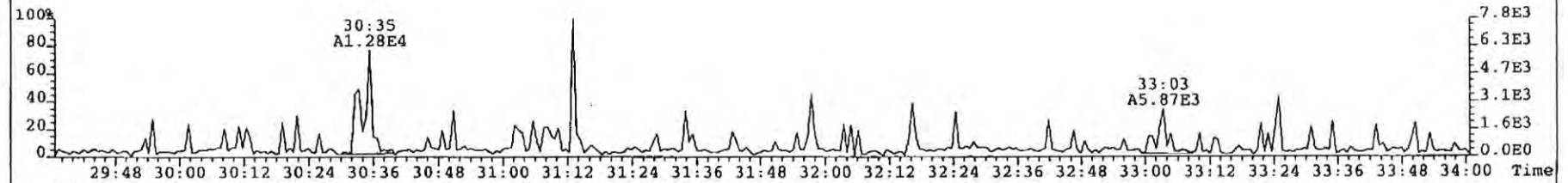
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
339.8597 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 101



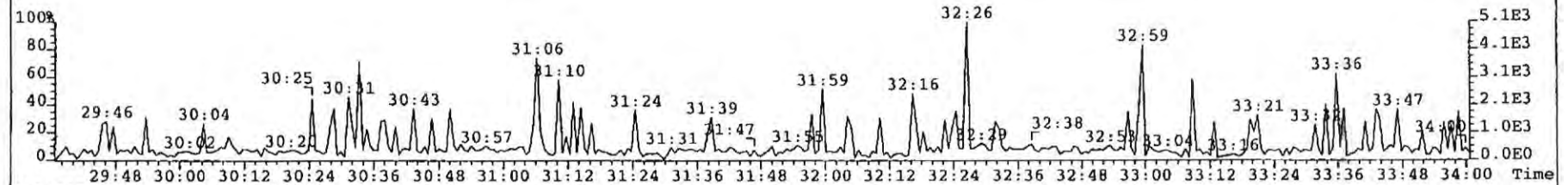
341.8568 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 99



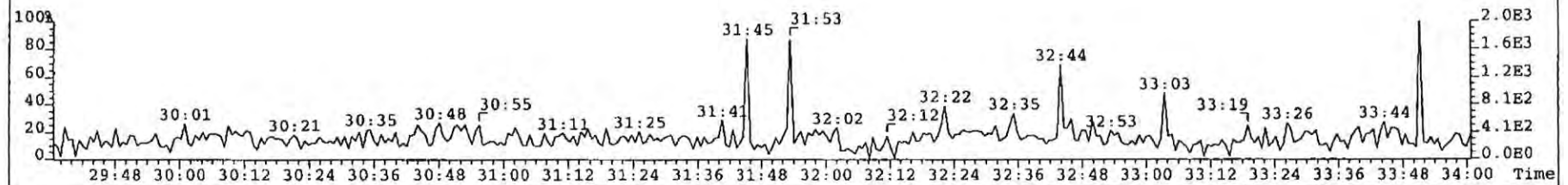
351.9000 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 111



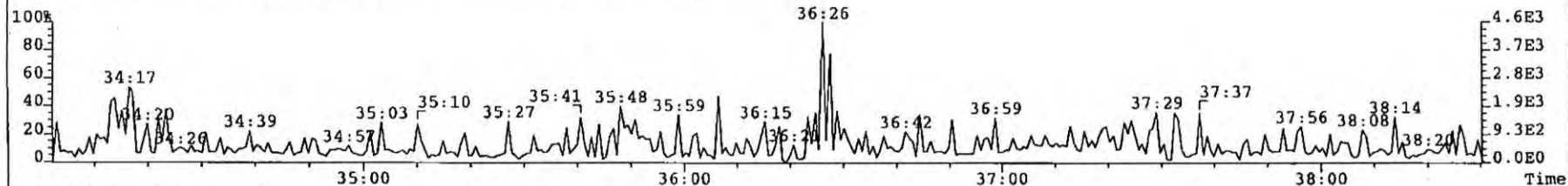
353.8970 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 105



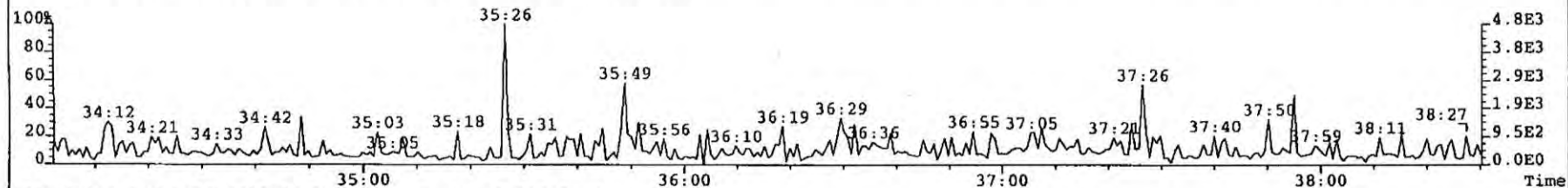
409.7974 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 97



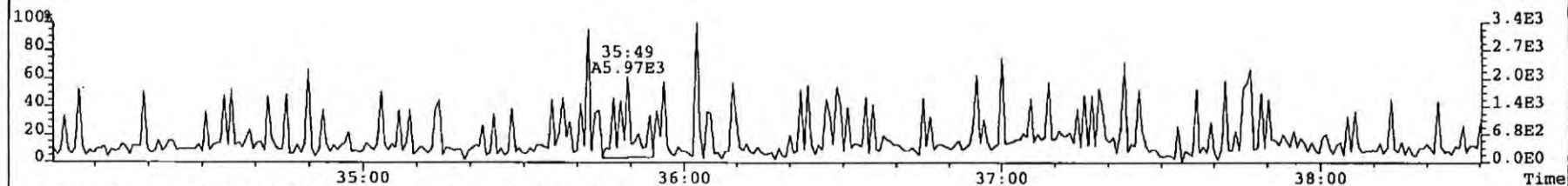
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 107



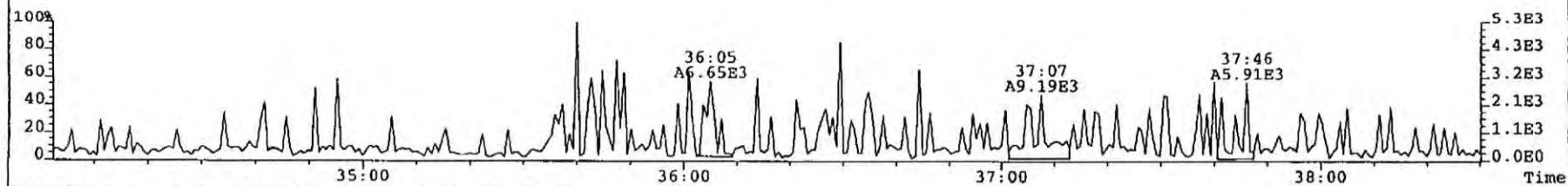
375.8178 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 109



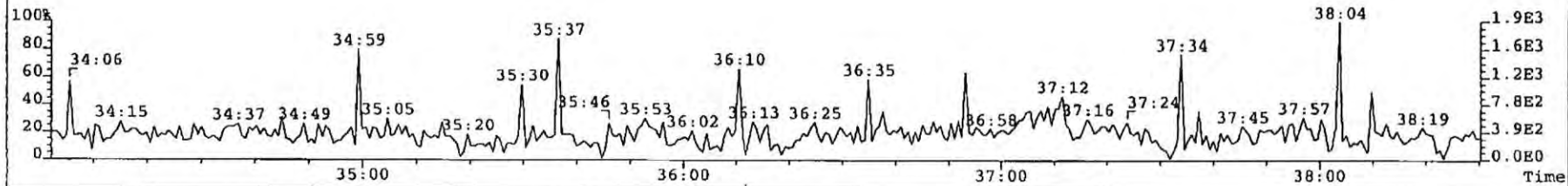
383.8639 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 110



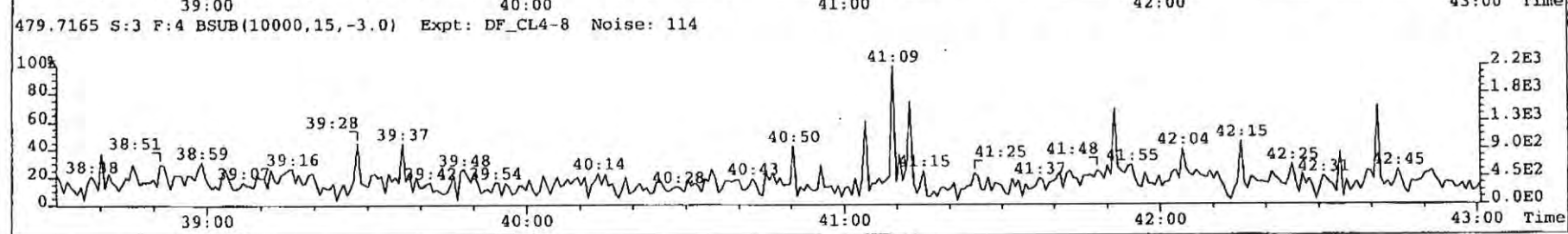
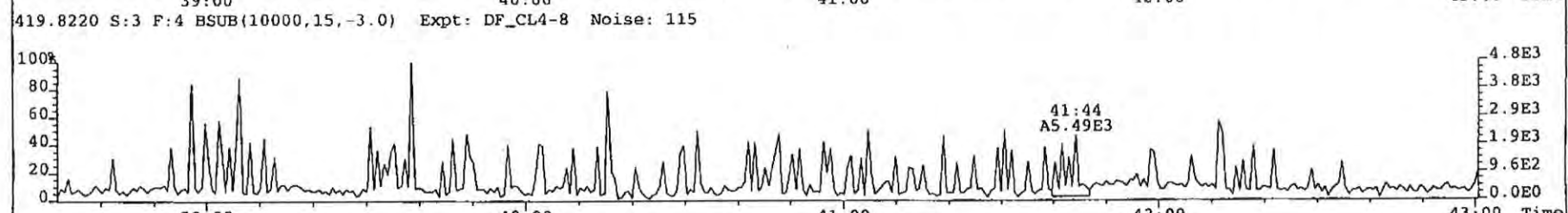
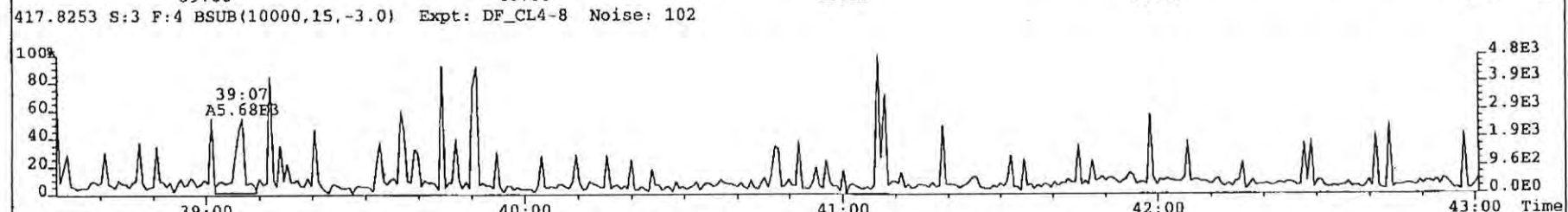
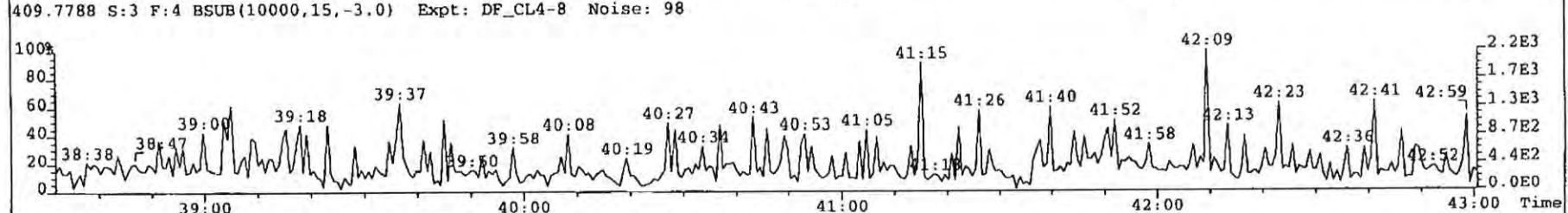
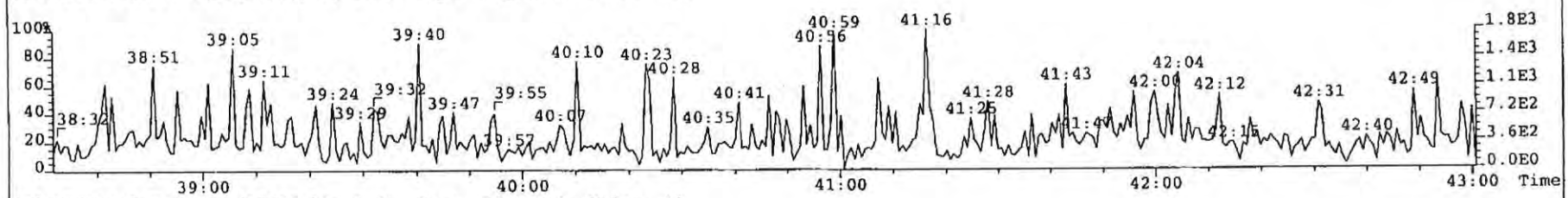
385.8610 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 117



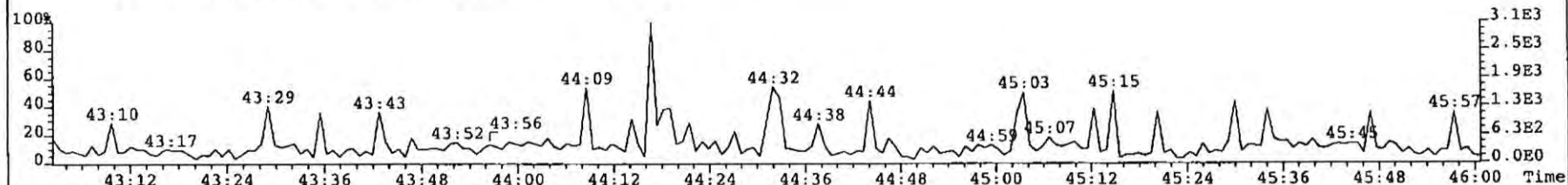
445.7555 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 113



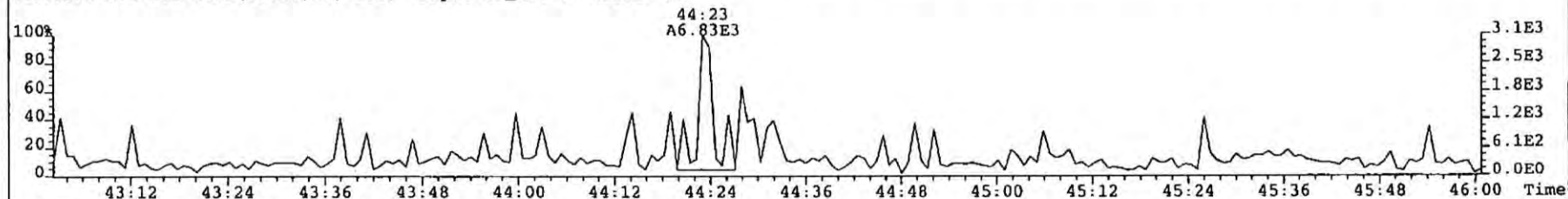
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
407.7818 S:3 F:4 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 100



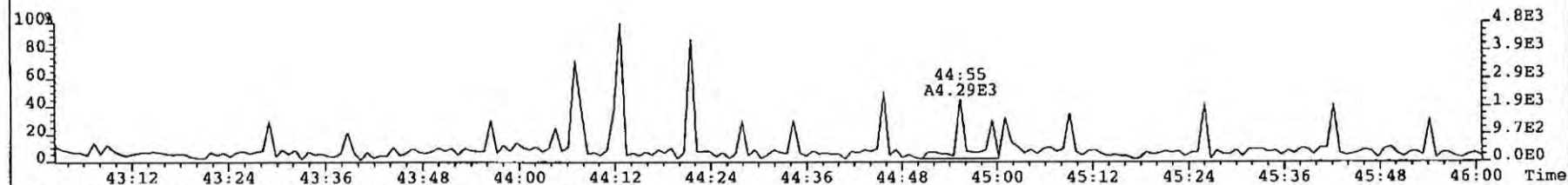
File: 090311P2 Acq: 11-MAR-2009 18:09:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
441.7428 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 101



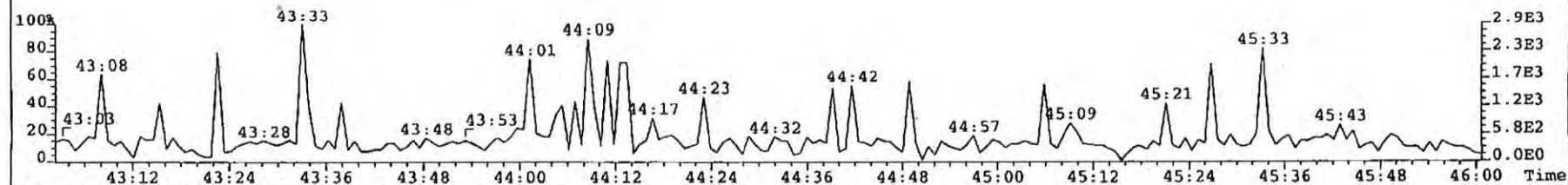
443.7398 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 99



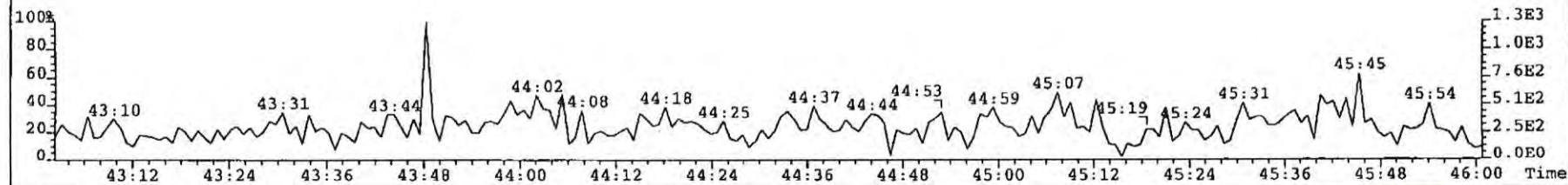
453.7830 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 101



455.7801 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 118



513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 94




FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Analytical Perspectives Episode No.:
 Contract No.: SAS No.:
 Matrix (aqueous/solid/leachate): OPR Data Filename:
 Ext. Date: Shift: Analysis Date: 23-MAR-09 Time: 22:08:19 ✓

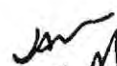
ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) ✓ (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	10.6	6.7 - 15.8
1,2,3,7,8-PeCDD	50	54.3	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	52.3	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	59.0	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	54.0	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	54.1	35.0 - 70.0
OCDD	100	110.9	78.0 - 144.0
2,3,7,8-TCDF	10	11.3	7.5 - 15.8
1,2,3,7,8-PeCDF	50	57.2	40.0 - 67.0
2,3,4,7,8-PeCDF	50	56.2	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	52.3	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	55.7	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	56.2	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	54.6	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	56.7	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	55.1	39.0 - 69.0
OCDF	100	108.7	63.0 - 170.0

Analyst: 

Date: 

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94


24 March 09

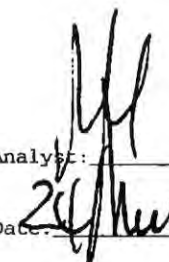
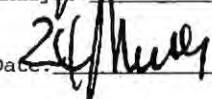
1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: 0_6682_OPR001 Filename: 090323P2 S: 2 Vial: 32 Acq: 23-MAR-09 22:08:19
 Lab ID: OPR1_6682_DF GC column ID: db-5 Cal: MM1_DF_07012007A_25DEC08Wt/Vol: 1.000
 Sample text: OPR1_6682_DF 0_6682_OPR001 Stds: JS (split adj.): 100 CS/SS: 40.0 ES: 100

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	5.37e+06	0.81 y	27:17	1.08	10.6	889	2.5	0.0327	-
Ax	1,2,3,7,8-PeCDD	2.19e+07	1.62 y	32:49	1.00	54.3	2391	2.5	0.133	-
Ax	1,2,3,4,7,8-HxCDD	2.04e+07	1.23 y	36:46	1.08	52.3	5095	2.5	0.262	-
Ax	1,2,3,6,7,8-HxCDD	2.07e+07	1.21 y	36:53	0.94	59.0	5095	2.5	0.304	-
Ax	1,2,3,7,8,9-HxCDD	2.06e+07	1.21 y	37:11	0.99	54.0	5095	2.5	0.293	-
Ax	1,2,3,4,6,7,8-HpCDD	1.78e+07	1.04 y	40:23	0.97	54.1	4732	2.5	0.299	-
Ax	OCDD	2.59e+07	0.91 y	44:00	1.06	111	4720	2.5	0.493	-
Ax2	OCDD-a	1.59e+06	2.54 y	43:59	0.06	114	1900	2.5	3.33	-
Ax	2,3,7,8-TCDF	8.96e+06	0.80 y	26:21	1.05	11.3	1464	2.5	0.0368	-
Ax	1,2,3,7,8-PeCDF	3.88e+07	1.62 y	31:21	0.98	57.2	8615	2.5	0.291	-
Ax	2,3,4,7,8-PeCDF	3.92e+07	1.61 y	32:28	1.01	56.2	8615	2.5	0.276	-
Ax	1,2,3,4,7,8-HxCDF	3.02e+07	1.27 y	35:47	1.22	52.3	9536	2.5	0.221	-
Ax	1,2,3,6,7,8-HxCDF	3.62e+07	1.27 y	35:56	1.15	55.7	9536	2.5	0.199	-
Ax	2,3,4,6,7,8-HxCDF	3.30e+07	1.29 y	36:35	1.13	56.2	9536	2.5	0.213	-
Ax	1,2,3,7,8,9-HxCDF	2.78e+07	1.29 y	37:34	1.12	54.6	9536	2.5	0.297	-
Ax	1,2,3,4,6,7,8-HpCDF	2.93e+07	1.06 y	39:12	1.37	56.7	6387	2.5	0.164	-
Ax	1,2,3,4,7,8,9-HpCDF	2.39e+07	1.05 y	40:58	1.32	55.1	6387	2.5	0.222	-
Ax	OCDF	3.53e+07	0.90 y	44:14	0.94	109	4937	2.5	0.373	-
Ax2	OCDF-a	1.91e+06	2.50 y	44:14	0.05	104	1631	2.5	2.19	-
ES	13C-2,3,7,8-TCDD	4.65e+07	0.81 y	27:15	0.99	79.8	2597	2.5	0.0865	79.8
ES	13C-1,2,3,7,8-PeCDD	4.03e+07	1.65 y	32:49	0.83	82.3	5882	2.5	0.233	82.3
ES	13C-1,2,3,4,7,8-HxCDD	3.60e+07	1.28 y	36:45	1.08	82.5	9328	2.5	0.429	82.5
ES	13C-1,2,3,6,7,8-HxCDD	3.72e+07	1.29 y	36:52	1.23	75.3	9328	2.5	0.380	75.3
ES	13C-1,2,3,7,8,9-HxCDD	3.84e+07	1.25 y	37:10	1.21	78.9	9328	2.5	0.384	78.9
ES	13C-1,2,3,4,6,7,8-HpCDD	3.38e+07	1.07 y	40:22	0.98	85.3	10438	2.5	0.529	85.3
ES	13C-OCDD	4.40e+07	0.87 y	43:59	0.66	166	6960	2.5	0.526	82.9
ES	13C-2,3,7,8-TCDF	7.57e+07	0.79 y	26:20	0.96	94.1	6677	2.5	0.171	94.1
ES	13C-1,2,3,7,8-PeCDF	6.89e+07	1.59 y	31:20	0.85	96.0	7918	2.5	0.227	96.0
ES	13C-2,3,4,7,8-PeCDF	6.87e+07	1.57 y	32:27	0.88	92.5	7918	2.5	0.219	92.5
ES	13C-1,2,3,4,7,8-HxCDF	4.74e+07	0.54 y	35:46	1.47	79.7	29625	2.5	1.00	79.7
ES	13C-1,2,3,6,7,8-HxCDF	5.65e+07	0.54 y	35:55	1.78	78.9	29625	2.5	0.832	78.9
ES	13C-2,3,4,6,7,8-HxCDF	5.20e+07	0.54 y	36:34	1.61	80.2	29625	2.5	0.918	80.2
ES	13C-1,2,3,7,8,9-HxCDF	4.57e+07	0.55 y	37:33	1.40	81.1	29625	2.5	1.05	81.1
ES	13C-1,2,3,4,6,7,8-HpCDF	3.79e+07	0.46 y	39:11	1.16	81.0	13005	2.5	0.559	81.0
ES	13C-1,2,3,4,7,8,9-HpCDF	3.27e+07	0.46 y	40:57	0.92	88.3	13005	2.5	0.704	88.3
ES	13C-OCDF	6.92e+07	0.90 y	44:13	1.04	166	12793	2.5	0.615	82.8
CS	37Cl-2,3,7,8-TCDD	2.04e+07		27:17	0.99	35.1			0.159	87.7
CS	13C-1,2,3,4,7-PeCDD	4.55e+07	1.66 y	32:18	0.77	101	5882	2.5	0.253	101
CS	13C-1,2,3,4,6-PeCDF	7.49e+07	1.55 y	30:48	0.79	112	7918	2.5	0.244	112
CS	13C-1,2,3,4,6,9-HxCDF	5.14e+07	0.54 y	36:13	1.41	90.4	29625	2.5	1.05	90.4
CS	13C-1,2,3,4,6,8,9-HpCDF	3.64e+07	0.45 y	39:41	0.91	99.2	13005	2.5	0.713	99.2
NA	n/a	*	* n	NotF>	Div0	*	1292	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.87e+07	0.83 y	26:36	-	167	2597	2.5	-	-
JS	13C-1,2,3,4-TCDF	8.41e+07	0.79 y	24:56	-	151	6677	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.01e+07	1.39 y	37:04	-	92.5	3710	2.5	-	-

Analysis: 
 Date: 

SS	37C1-2,3,7,8-TCDD	2.04e+07		27:17	1.00	43.7			0.190	109
SS	13C-1,2,3,4,7-PeCDD	4.55e+07	1.66 y	32:18	0.93	122	5882	2.5	0.351	122
SS	13C-1,2,3,4,6-PeCDF	7.49e+07	1.55 y	30:48	0.94	116	7918	2.5	0.281	116
SS	13C-1,2,3,4,6,9-HxCDF	5.14e+07	0.54 y	36:13	0.80	114	29625	2.5	0.890	114
SS	13C-1,2,3,4,6,8,9-HpCDF	3.64e+07	0.45 y	39:41	0.79	121	13005	2.5	0.577	121
SBS	2,4,6,8-TCDF	2.48e+06	0.77 y	22:27	1.05	3.13	1464	2.5	0.0368	-
Ay	1,3,6,8-TCDD	5.36e+06	0.81 y	23:26	1.08	10.6	889	2.5	0.0327	-
Ay	1,2,3,9-TCDD	6.75e+06	0.79 y	27:08	1.08	13.4	889	2.5	0.0327	-
Ay	1,2,8,9-TCDD	3.85e+06	0.79 y	28:19	1.08	7.64	889	2.5	0.0327	-
Ay	1,2,4,7,9-PeCDD	5.45e+06	1.66 y	30:18	1.00	13.5	2391	2.5	0.133	-
Ay	1,2,3,8,9-PeCDD	4.85e+06	1.71 y	33:17	1.00	12.1	2391	2.5	0.133	-
Ay	1,2,4,6,7,9-HxCDD	4.81e+06	1.25 y	35:04	1.00	12.9	5095	2.5	0.286	-
Ay	1,2,3,4,6,7,9-HpCDD	4.10e+06	1.06 y	39:31	0.97	12.5	4732	2.5	0.299	-
Ay	1,3,6,8-TCDF	1.05e+07	0.79 y	21:18	1.05	13.3	1464	2.5	0.0368	-
Ay	2,3,4,8-TCDF	8.08e+06	0.76 y	26:15	1.05	10.2	1464	2.5	0.0368	-
Ay	1,2,8,9-TCDF	1.05e+07	0.79 y	28:29	1.05	13.3	1464	2.5	0.0368	-
Ay	1,3,4,6,8-PeCDF	7.92e+06	1.70 y	28:26	1.05	10.0	1996	2.5	0.0502	-
Ay	1,2,3,8,9-PeCDF	7.89e+06	1.58 y	33:34	1.00	11.5	8615	2.5	0.283	-
Ay	1,2,3,4,6,8-HxCDF	6.68e+07	1.25 y	34:24	1.15	115	9536	2.5	0.229	-
Tot	Total Tetra-Dioxins	2.15e+07	0.81 y	23:26	1.08	42.6	889	2.5	0.0327	-
Tot	Total Penta-Dioxins	3.22e+07	1.66 y	30:18	1.00	79.9	2391	2.5	0.133	-
Tot	Total Hexa-Dioxins	6.66e+07	1.25 y	35:04	1.00	178	5095	2.5	0.286	-
Tot	Total Hepta-Dioxins	2.19e+07	1.06 y	39:31	0.97	66.6	4732	2.5	0.299	-
Tot	Total Tetra-Furans	4.05e+07	0.79 y	21:18	1.05	51.2	1464	2.5	0.0368	-
Tot	Total Penta-Furans	8.79e+07	1.61 y	30:12	1.00	128	8615	2.5	0.283	-
Tot	Total Hexa-Furans	1.94e+08	1.25 y	34:24	1.15	334	9536	2.5	0.229	-
Tot	Total Hepta-Furans	5.32e+07	1.06 y	39:12	1.35	112	6387	2.5	0.190	-
Tot	TCDD EMPC	2.15e+07	0.81 y	23:26	1.08	42.7	889	2.5	0.0327	-
Tot	PeCDD EMPC	3.23e+07	1.66 y	30:18	1.00	80.1	2391	2.5	0.133	-
Tot	HxCDD EMPC	6.68e+07	1.25 y	35:04	1.00	179	5095	2.5	0.286	-
Tot	HpCDD EMPC	2.19e+07	1.06 y	39:31	0.97	66.6	4732	2.5	0.299	-
Tot	TCDF EMPC	4.06e+07	0.79 y	21:18	1.05	51.4	1464	2.5	0.0368	-
Tot	PeCDF EMPC	8.79e+07	1.61 y	30:12	1.00	128	8615	2.5	0.283	-
Tot	HxCDF EMPC	1.94e+08	1.25 y	34:24	1.15	334	9536	2.5	0.229	-
Tot	HpCDF EMPC	5.33e+07	1.06 y	39:12	1.35	112	6387	2.5	0.190	-
AS	13C-1,3,6,8-TCDD	4.90e+07	0.83 y	23:24	1.09	76.8	2597	2.5	0.0790	76.8
AS	13C-1,3,6,8-TCDF	8.87e+07	0.78 y	21:16	1.09	96.9	6677	2.5	0.150	96.9
DPE	HxCDFE *			NotF»	-	*				
DPE	HpCDFE *			NotF»	-	*				
DPE	OCDFE *			NotF»	-	*				
DPE	NCDPE *			NotF»	-	*				
DPE	DCDFE *			NotF»	-	*				
LMC	Fn1 check mass *			NotF»	-	*				
LMC	Fn2 check mass *			NotF»	-	*				
LMC	Fn3 check mass *			NotF»	-	*				
LMC	Fn4 check mass *			NotF»	-	*				
LMC	Fn5 check mass *			NotF»	-	*				

na

PCDD/PCDF RT Window & Isomer Specificity Standards

Analytical Perspectives

[Form: CPSM]


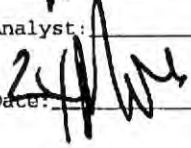
Client ID: 0_6682_OPR001 ✓ Filename: 090323P2 S: 2 Vial: 32 ✓ Acq: 23-MAR-09 22:08:19 ✓
 Lab ID: OPR1_6682_DF ✓ GC Column ID: db-5 ICal: MM1_DF_07012007A_25» Wt/Vol: 1.000
 Sample text: OPR1_6682_DF 0_6682_OPR001 ✓

Window Defining Standards Results

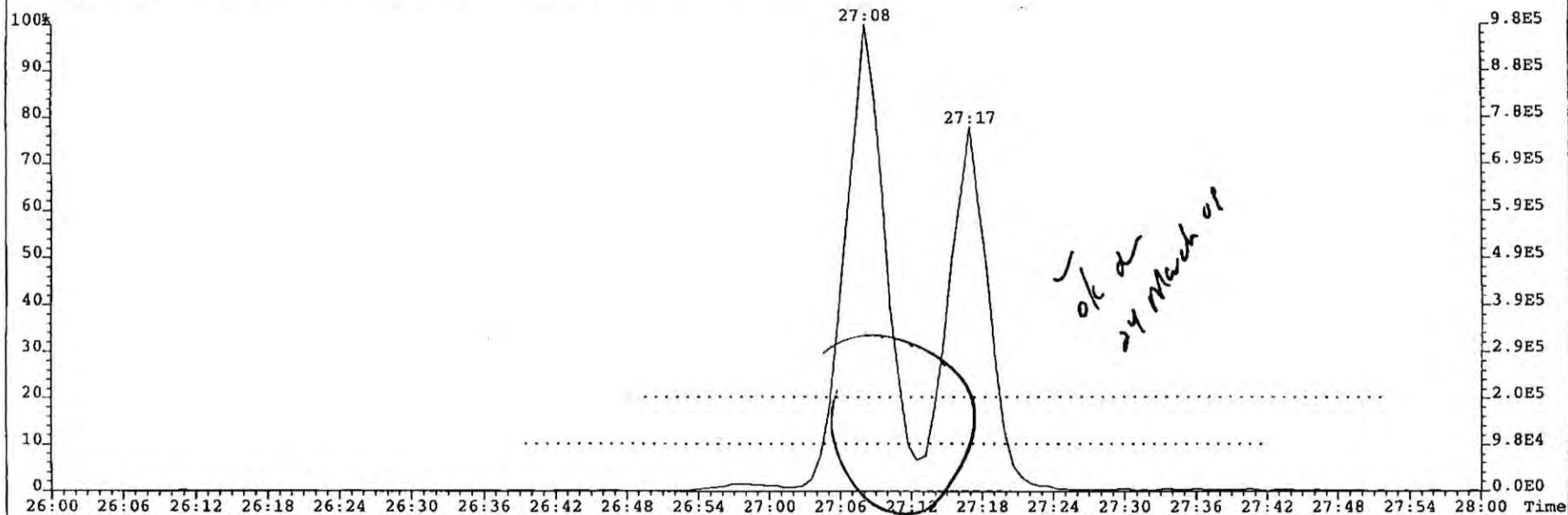
First Eluting Isomer	RT	Last Eluting Isomer	RT
1,3,6,8-TCDD	23:26	1,2,8,9-TCDD	28:19
1,2,4,7,9-PeCDD	30:18	1,2,3,8,9-PeCDD	33:17
1,2,4,6,7,9-HxCDD	35:04	1,2,3,7,8,9-HxCDD	37:11
1,2,3,4,6,7,9-HpCDD	39:31	1,2,3,4,6,7,8-HpCDD	40:23
1,3,6,8-TCDF	21:18	1,2,8,9-TCDF	28:29
1,3,4,6,8-PeCDF	28:26	1,2,3,8,9-PeCDF	33:34
1,2,3,4,6,8-HxCDF	34:24	1,2,3,7,8,9-HxCDF	37:34
1,2,3,4,6,7,8-HpCDF	39:12	1,2,3,4,7,8,9-HpCDF	40:58

Isomer Specificity Test Standard Results

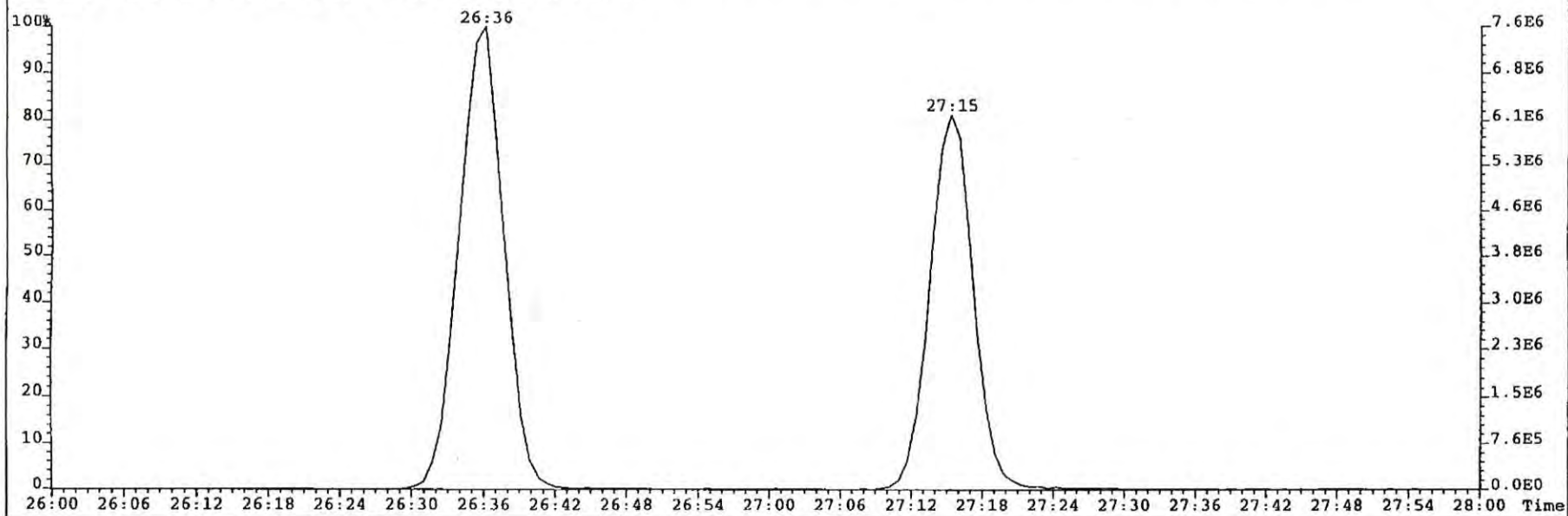
2,3,7,8 Isomer	RT	Closest Isomer	RT	% Valley
2,3,7,8-TCDD	27:17	1,2,3,9-TCDD	27:08	<= 10%
2,3,7,8-TCDF	26:21	2,3,4,8-TCDF	26:15	<= 40%

Analyst: 
 Date: 

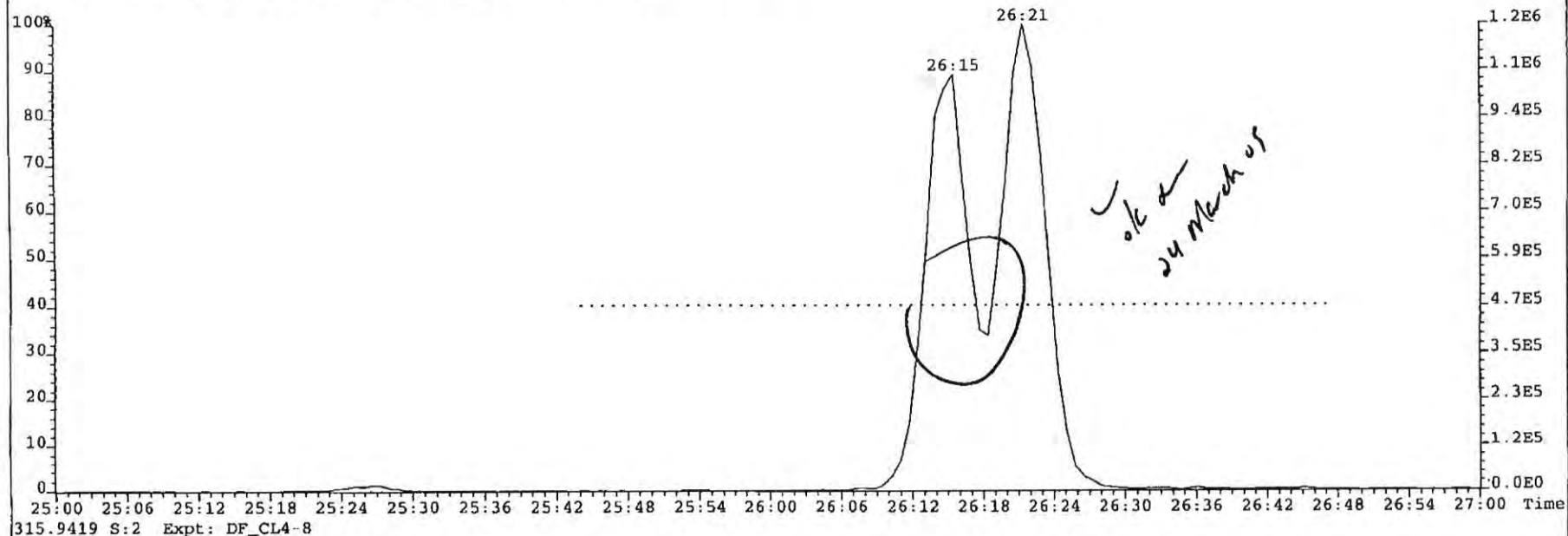
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
321.8936 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 81



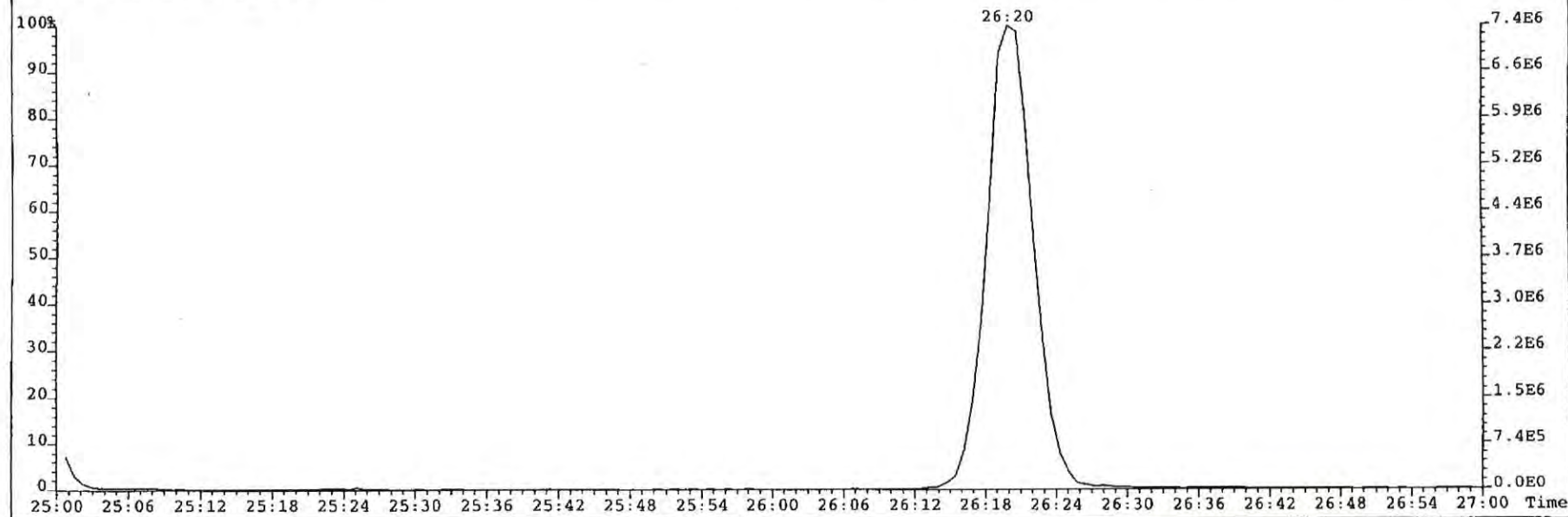
333.9339 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 97



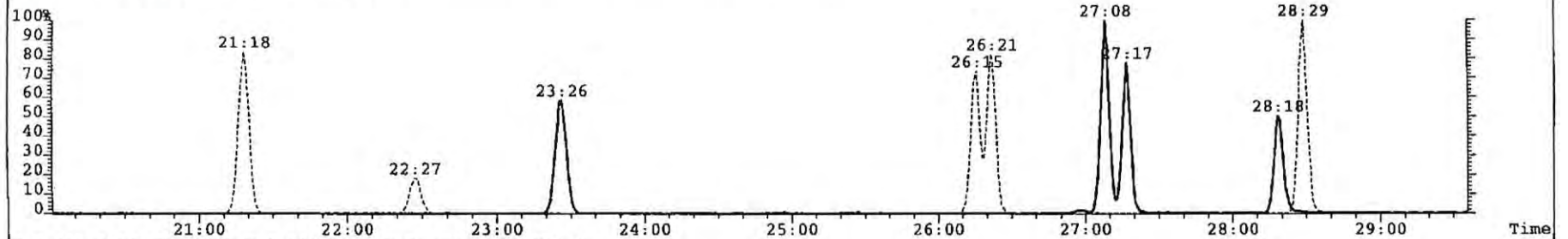
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
305.8987 S:2 BSub(10000,15,-3.0) Expt: DF_CL4-8 Noise: 258



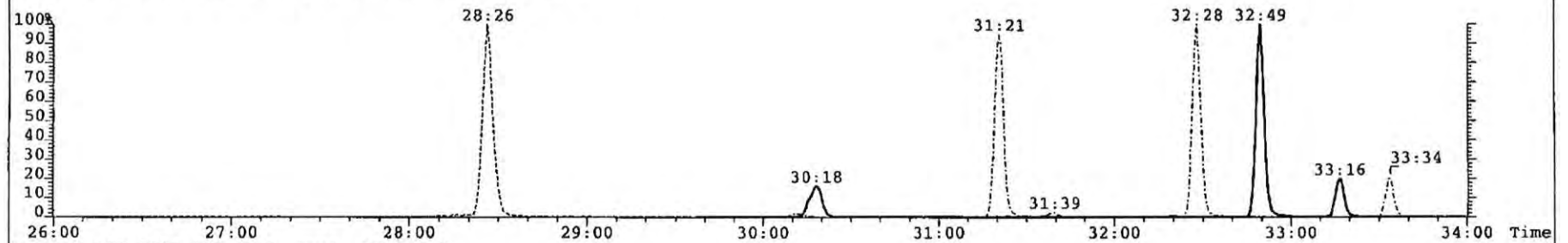
315.9419 S:2 Expt: DF_CL4-8



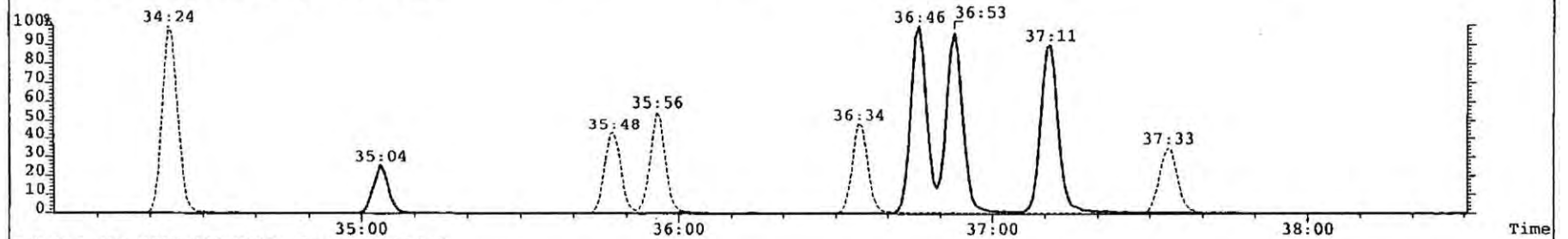
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
S:2 305.8987,321.8936 Expt: DF_CL4-8



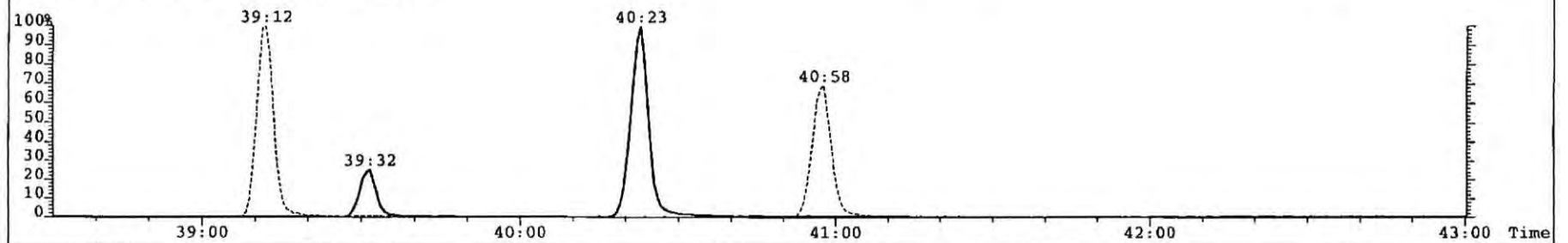
S:2 339.8597,355.8546 F:2,339.8597 F:2 Expt: DF_CL4-8



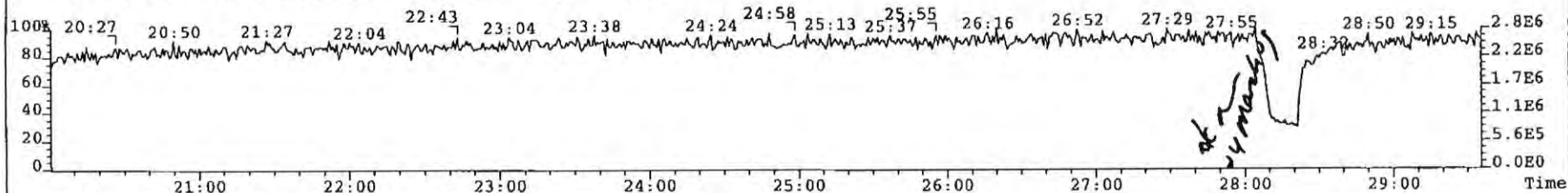
S:2 F:3 373.8207,389.8156 Expt: DF_CL4-8



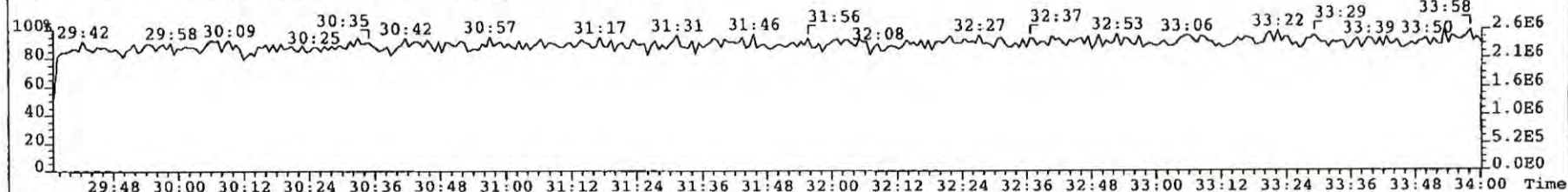
S:2 F:4 407.7818,423.7767 Expt: DF_CL4-8



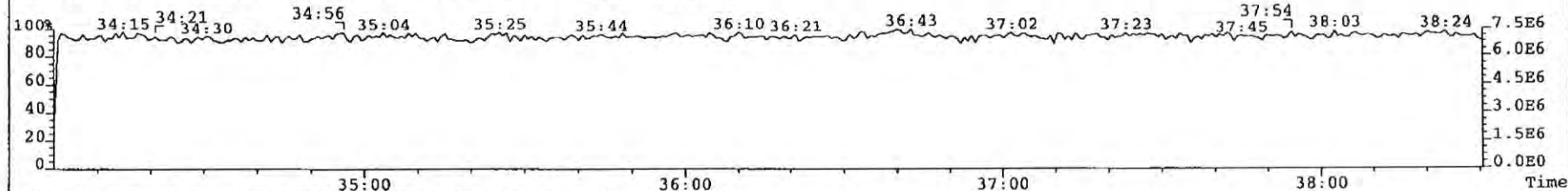
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



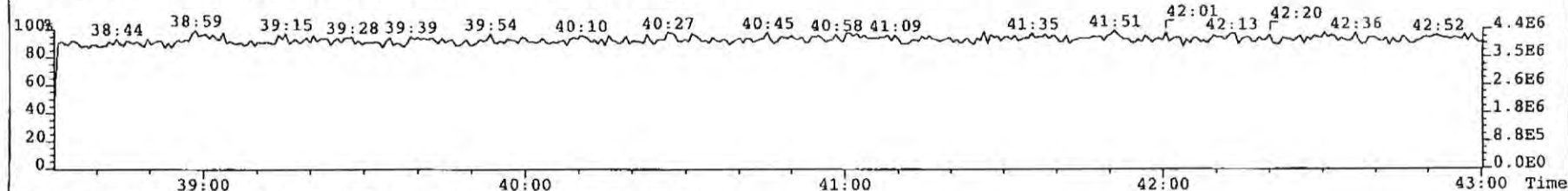
366.9792 S:2 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



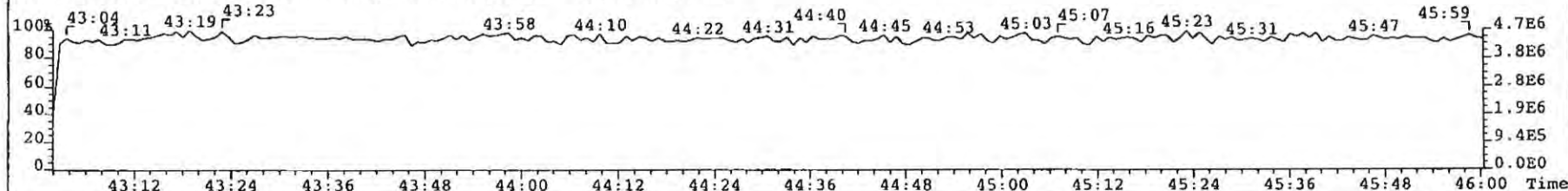
380.9760 S:2 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



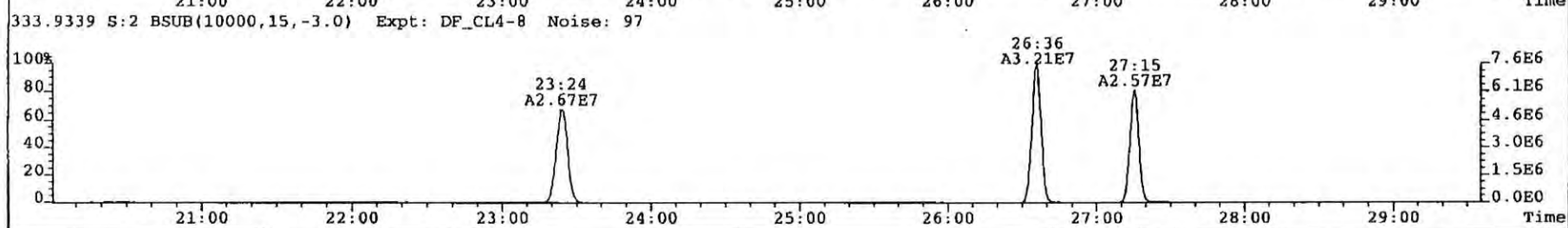
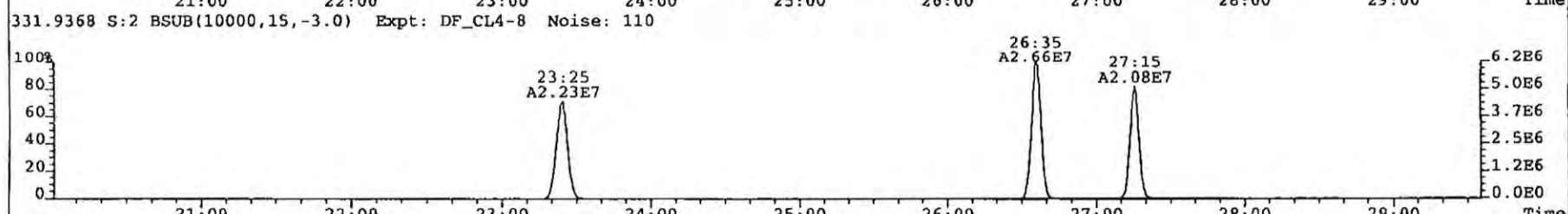
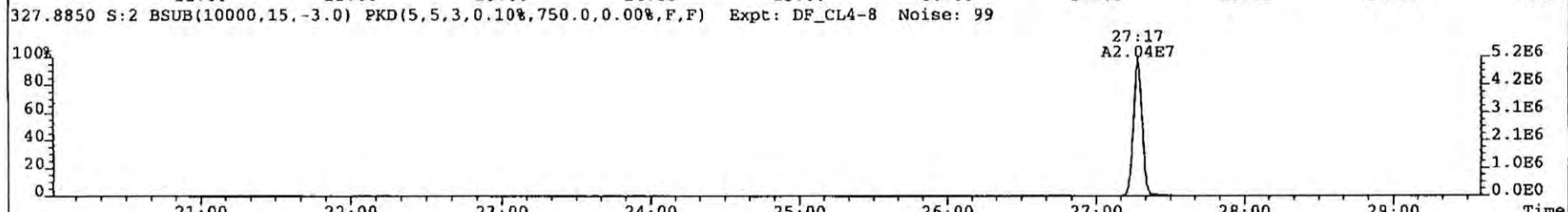
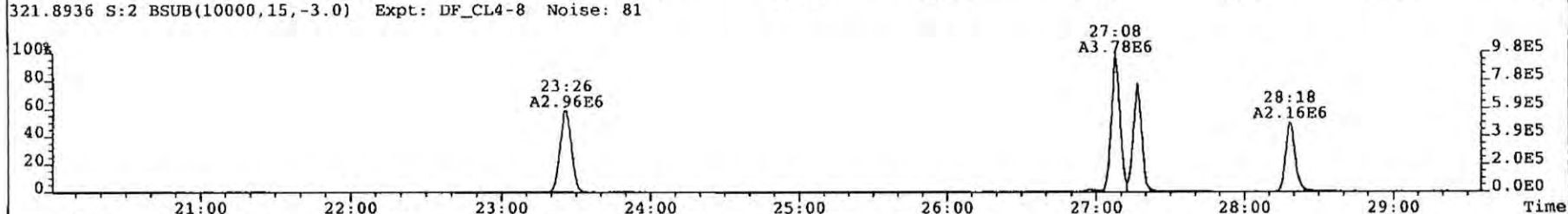
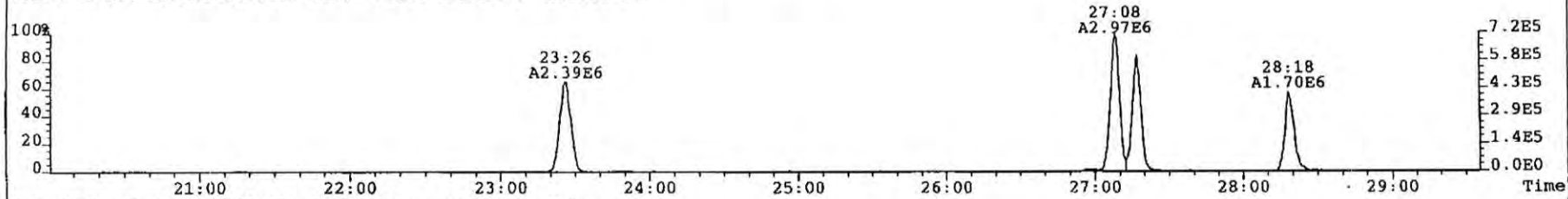
430.9728 S:2 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



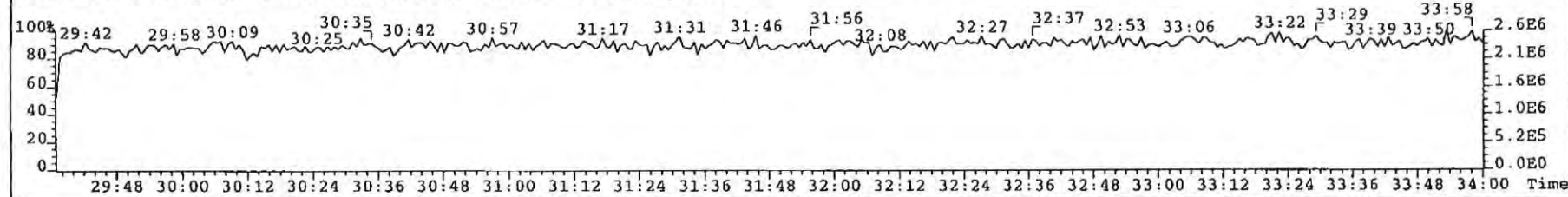
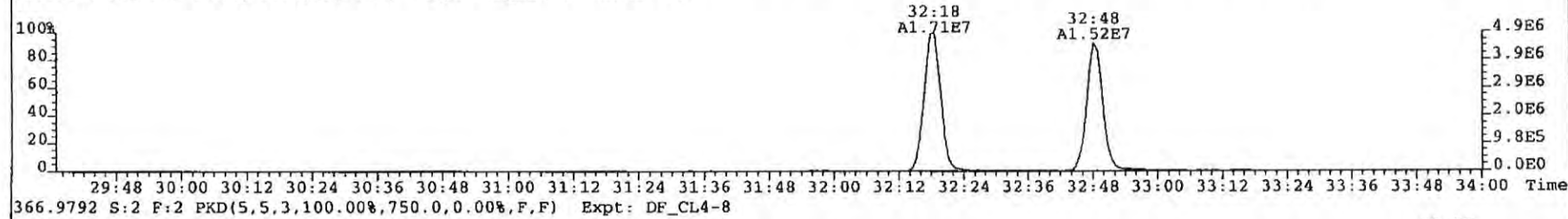
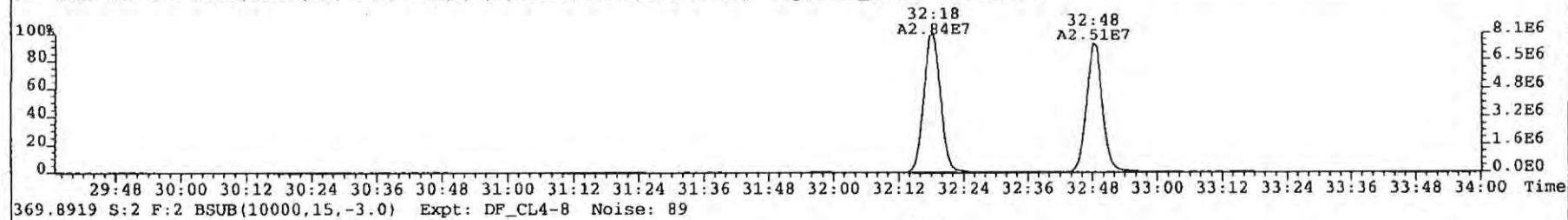
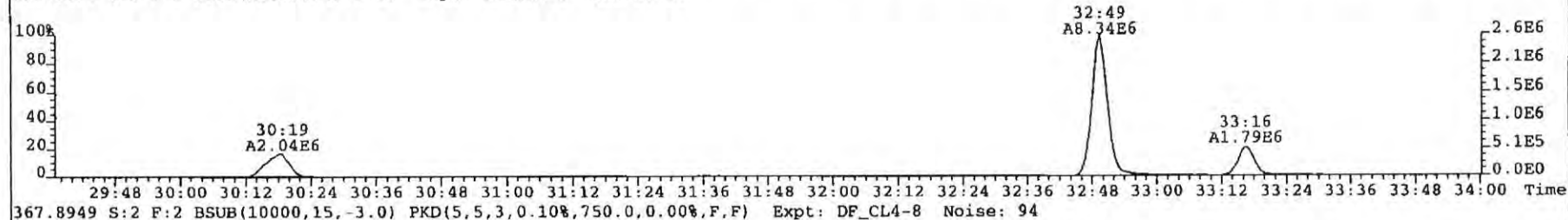
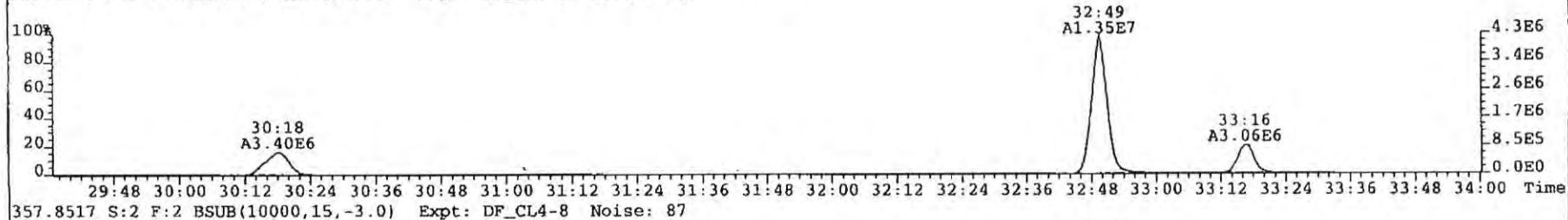
454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



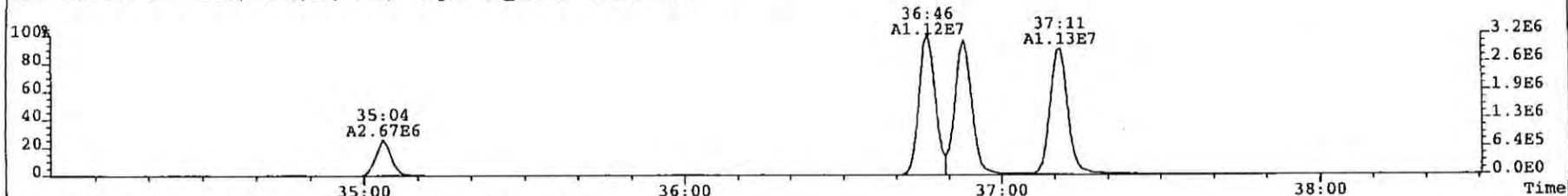
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF_0_6682_OPR001 Vial# 32 File Text: AP DB5
319.8965 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 91



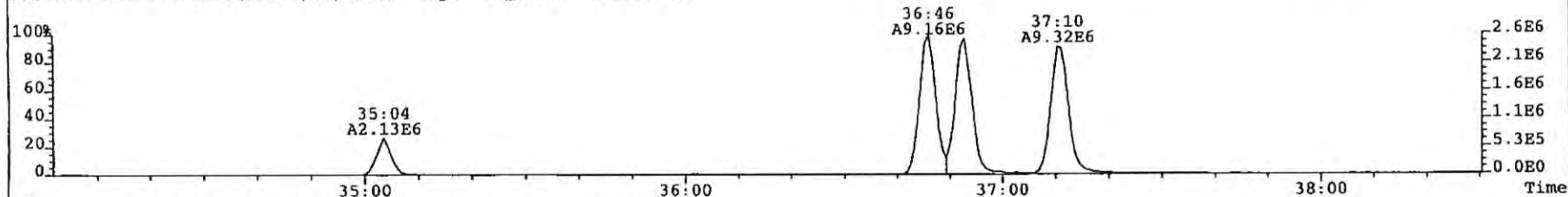
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
355.8546 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 401



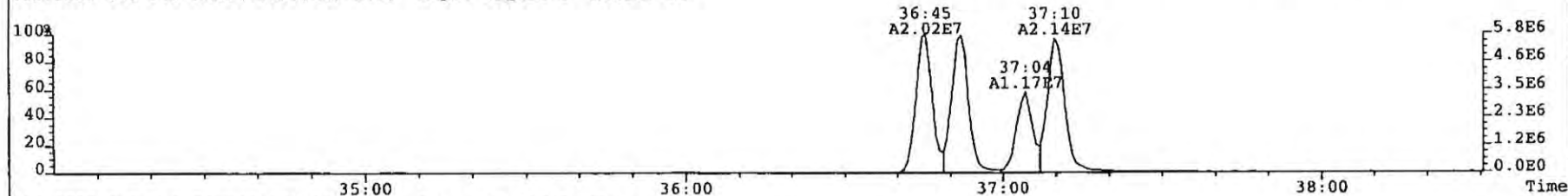
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 245



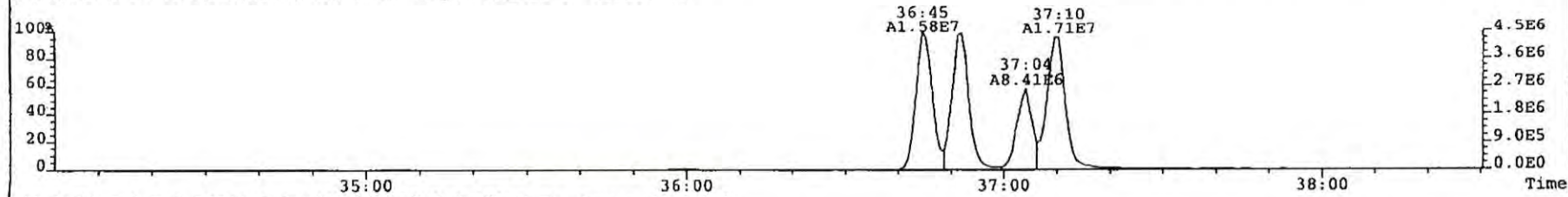
391.8127 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 486



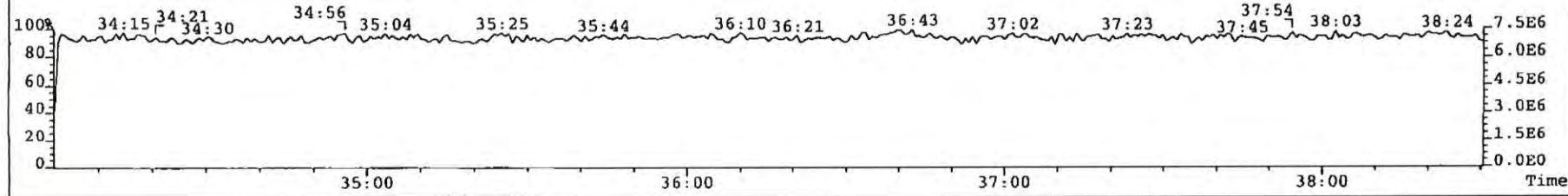
401.8559 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 91



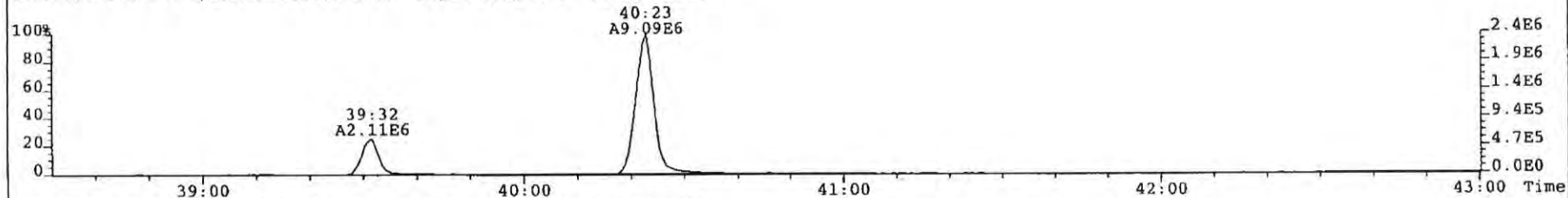
403.8530 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



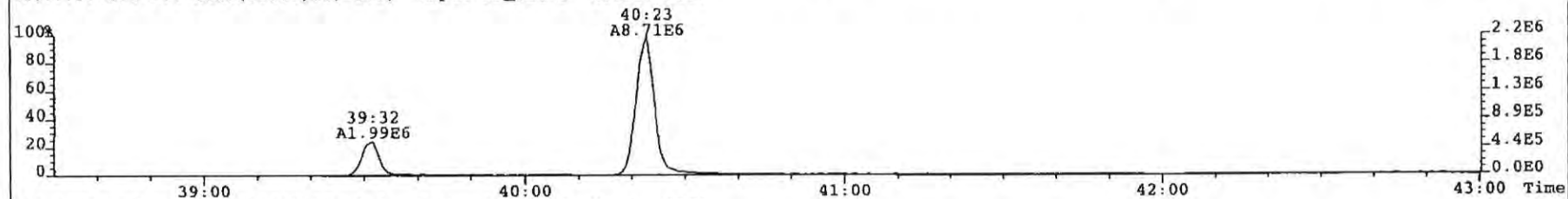
380.9760 S:2 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



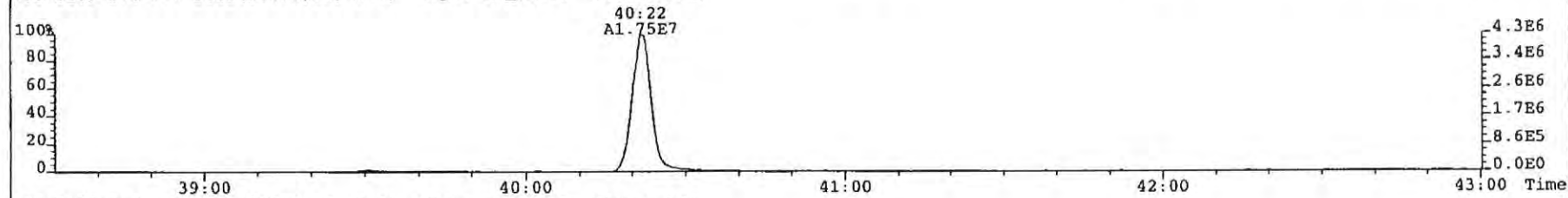
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1040



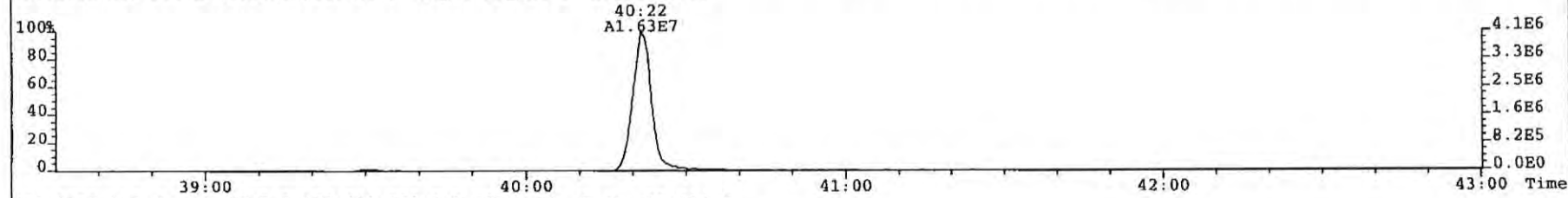
425.7737 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1027



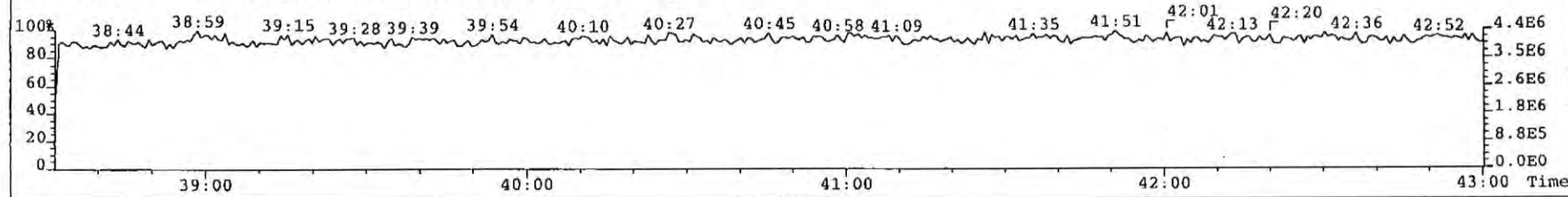
435.8169 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1326



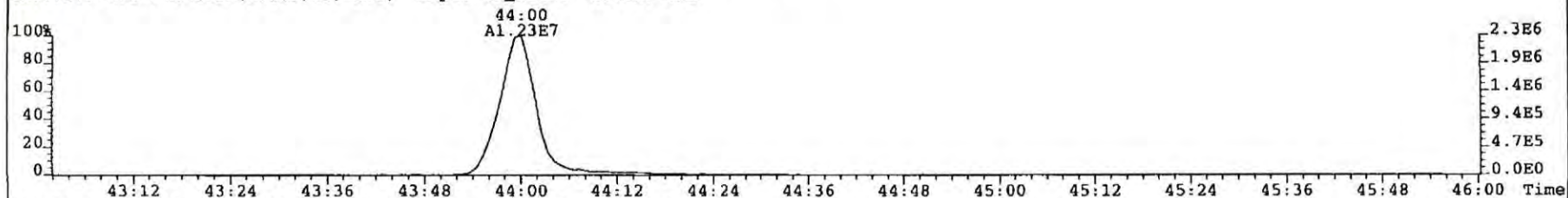
437.8140 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1640



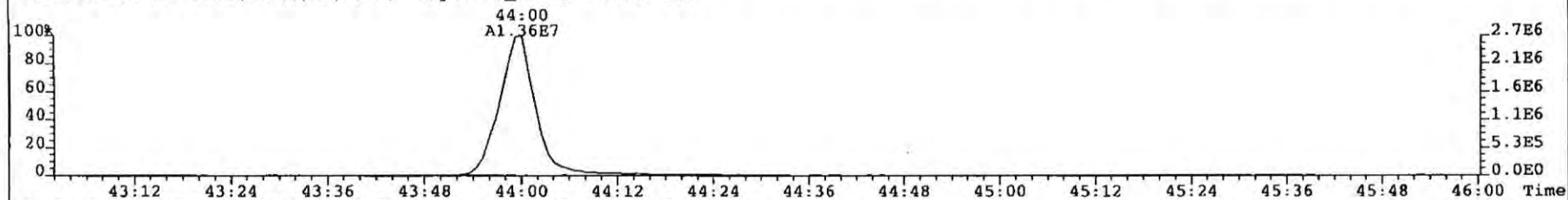
430.9728 S:2 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



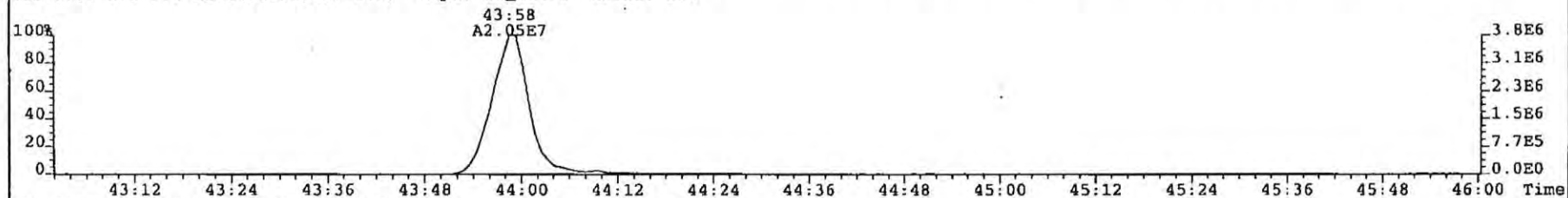
File: 090323F2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 351



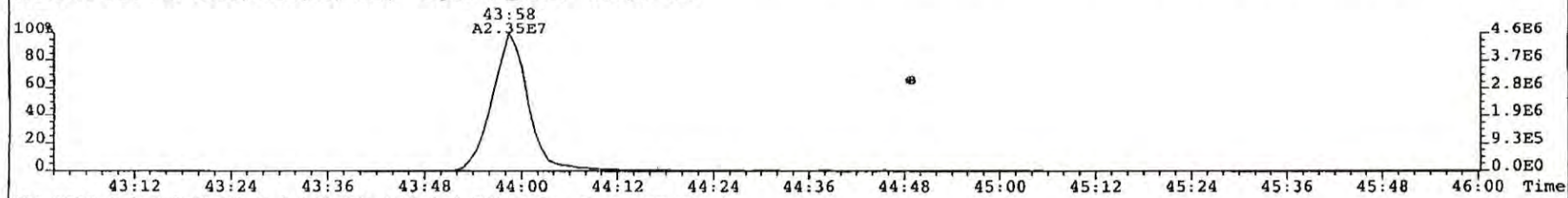
459.7348 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 293



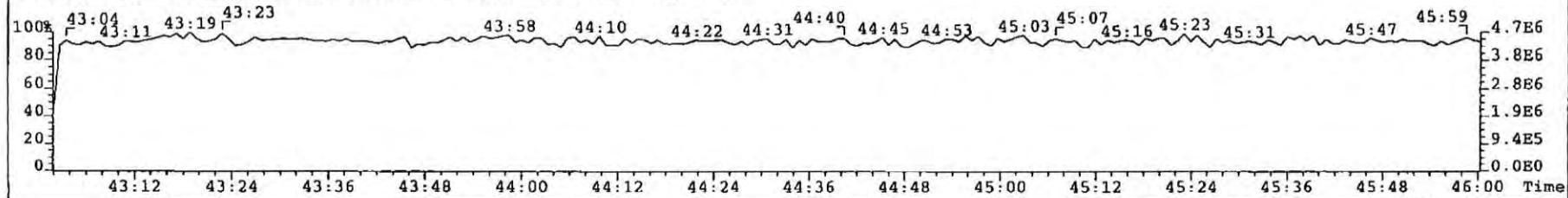
469.7780 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 586



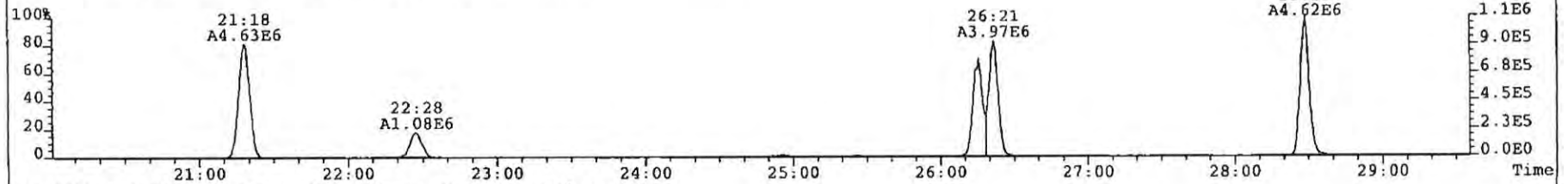
471.7750 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 739



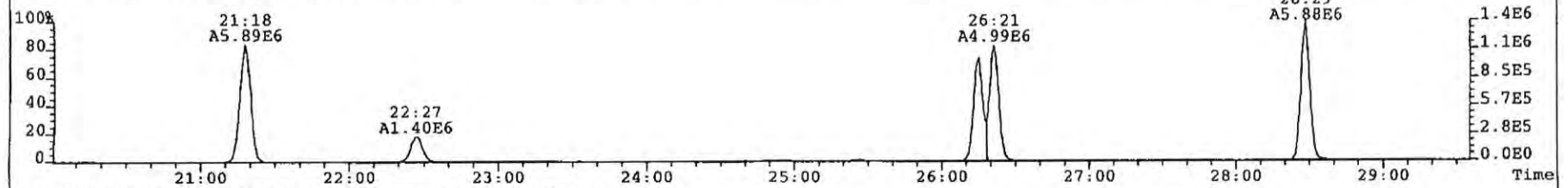
454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



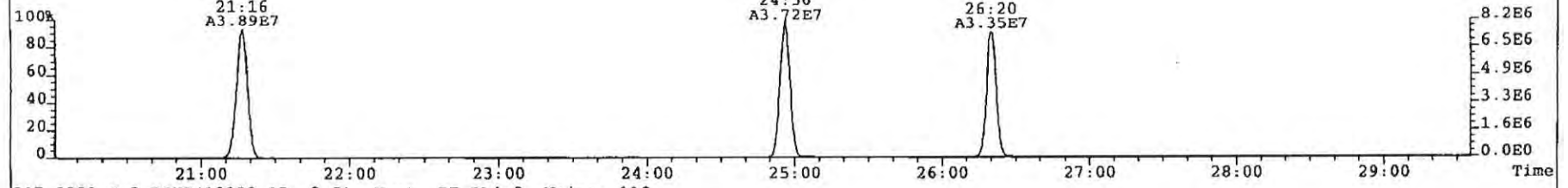
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF_0_6682_OPR001 Vial# 32 File Text: AP DB5
303.9016 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 94



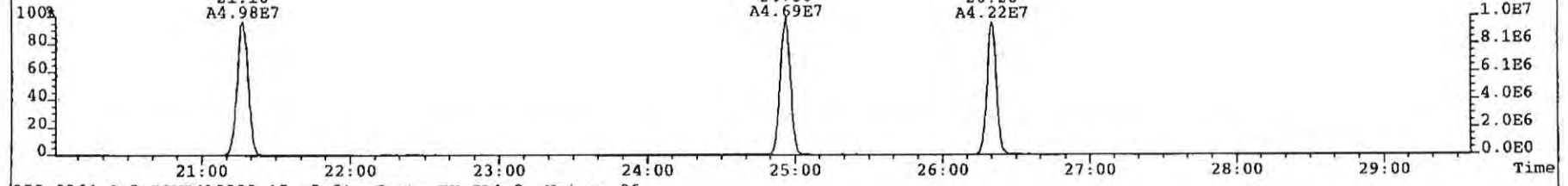
305.8987 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 258



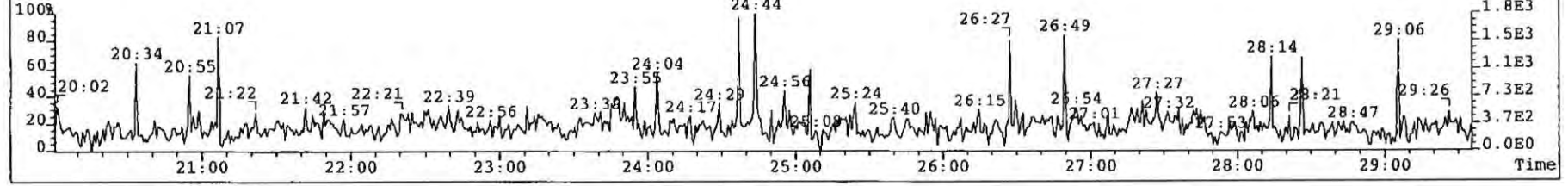
315.9419 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 114



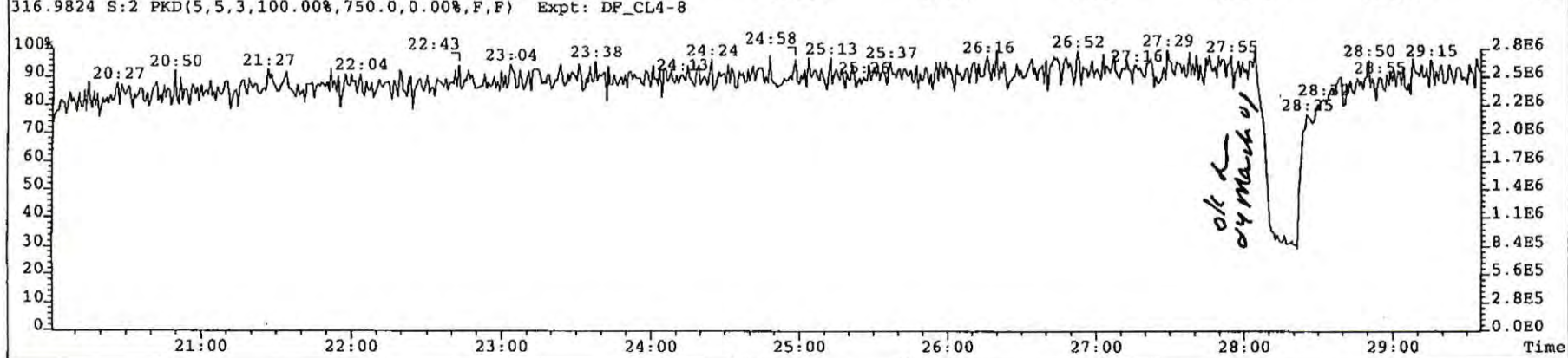
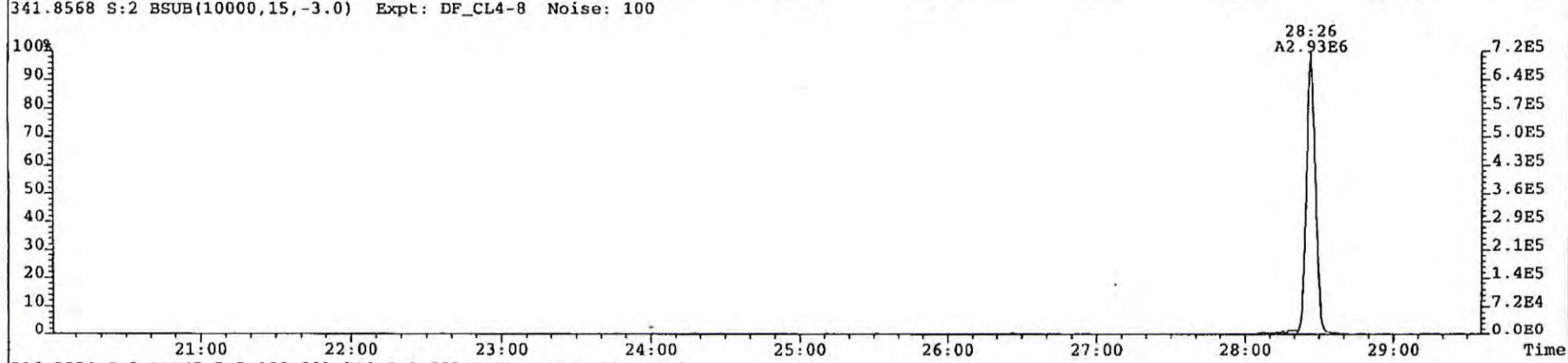
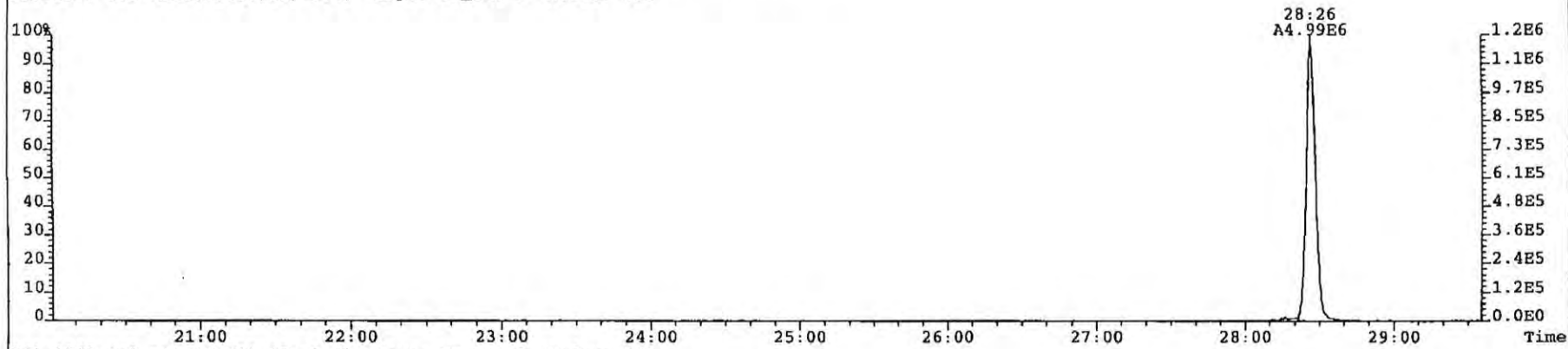
317.9389 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 110



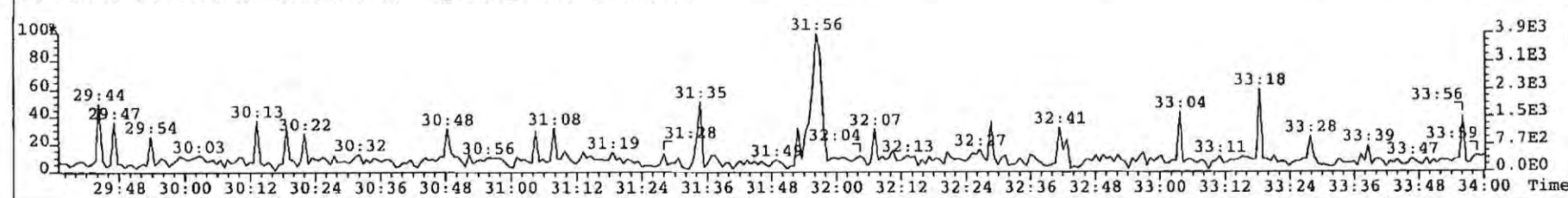
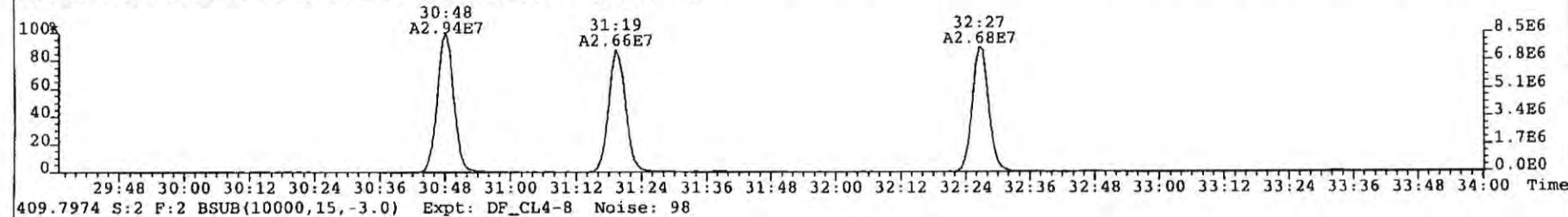
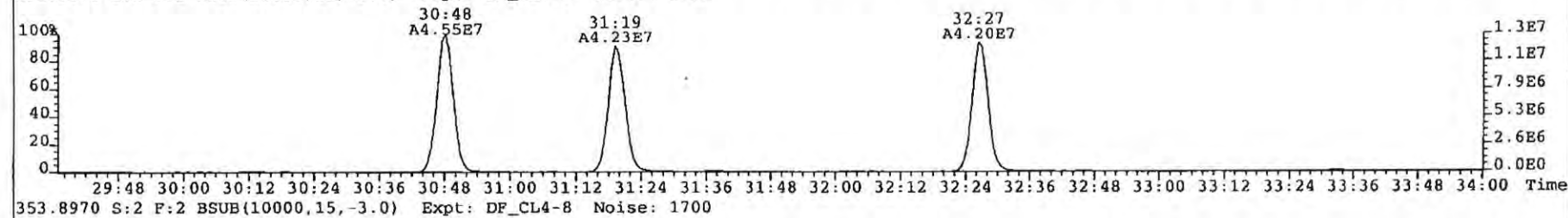
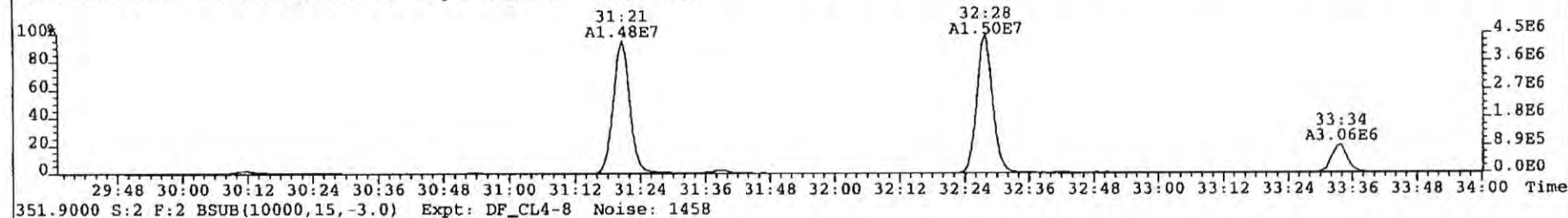
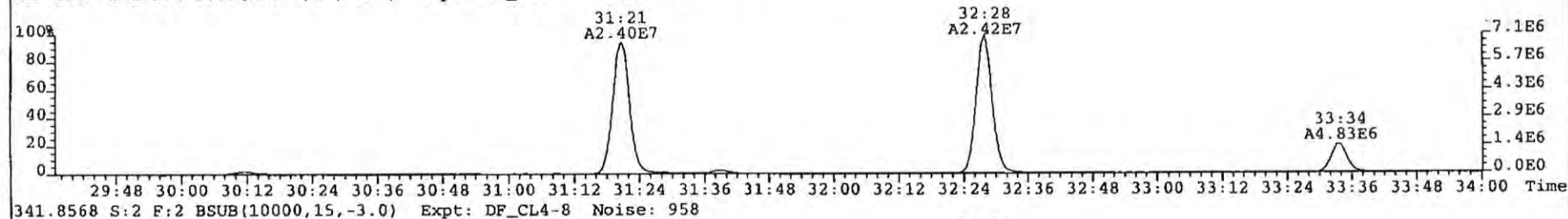
375.8364 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



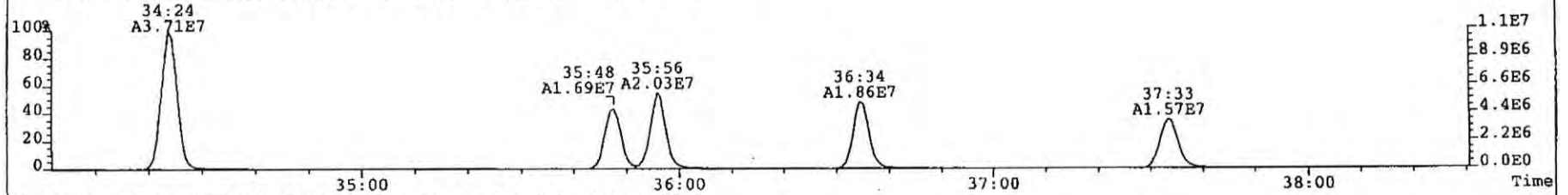
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
339.8597 S:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 105



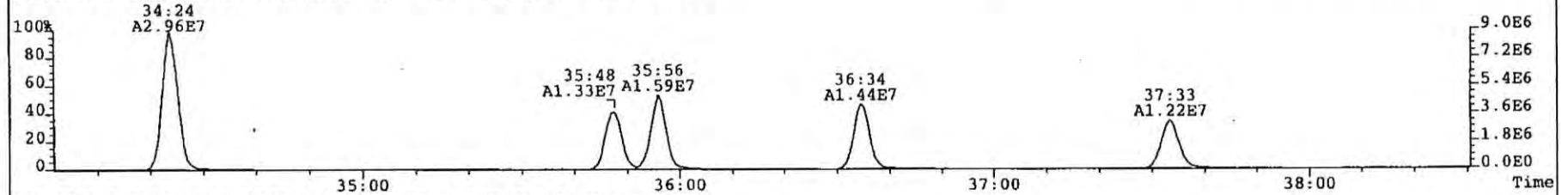
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1311



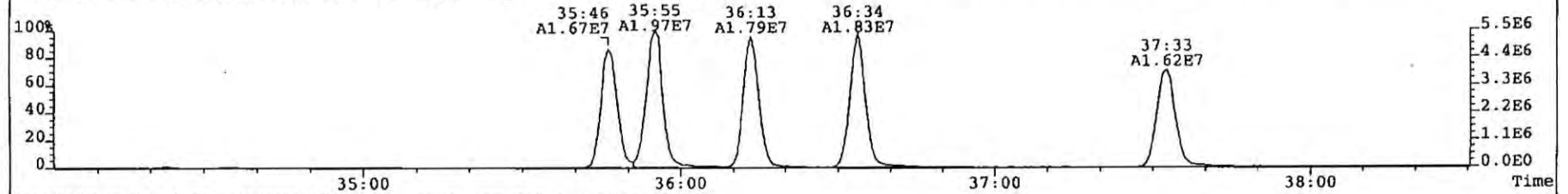
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1971



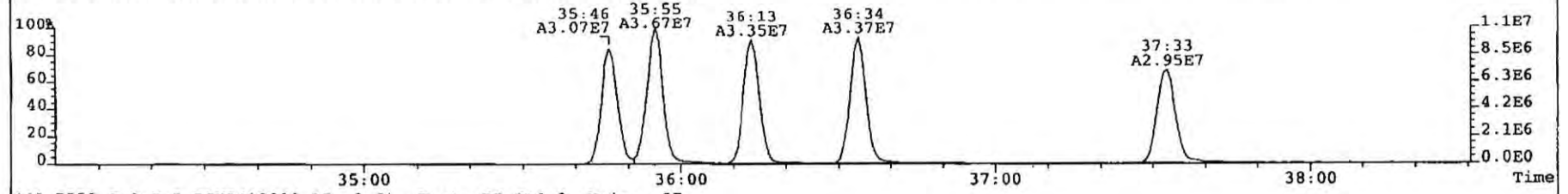
375.8178 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 2286



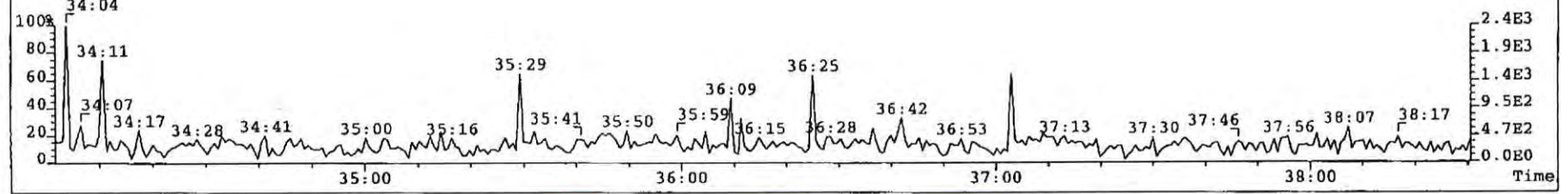
383.8639 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1578



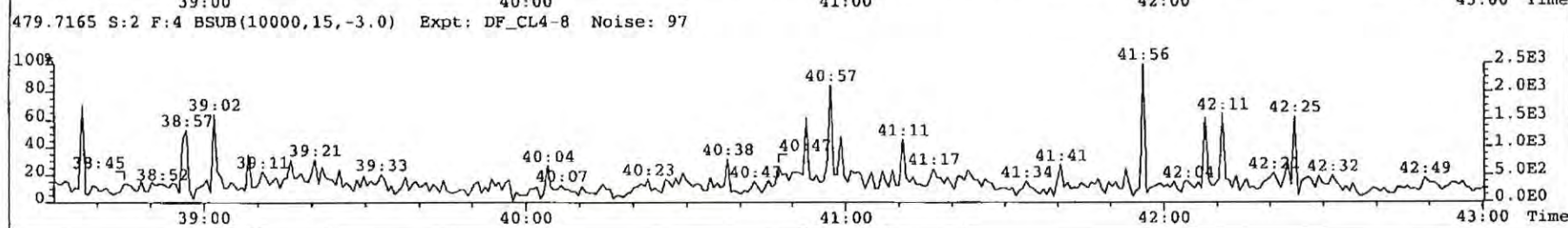
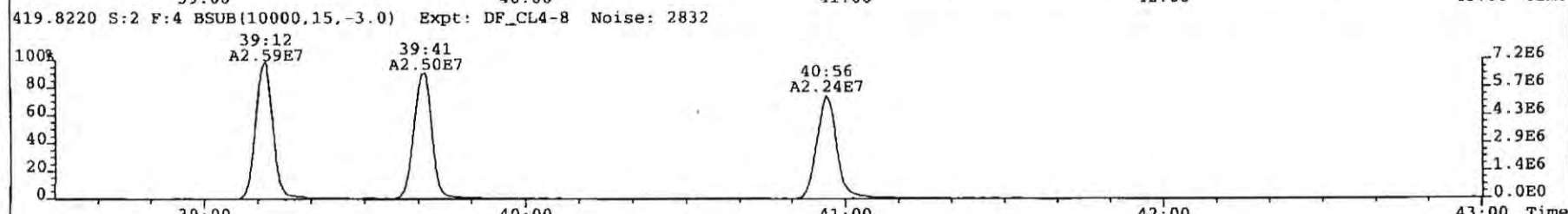
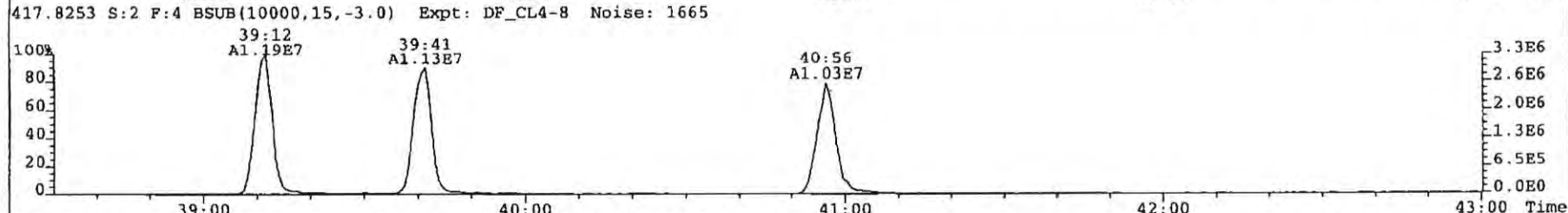
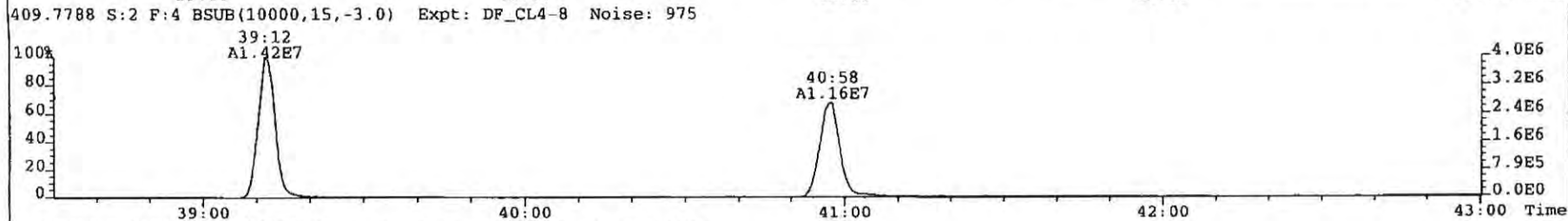
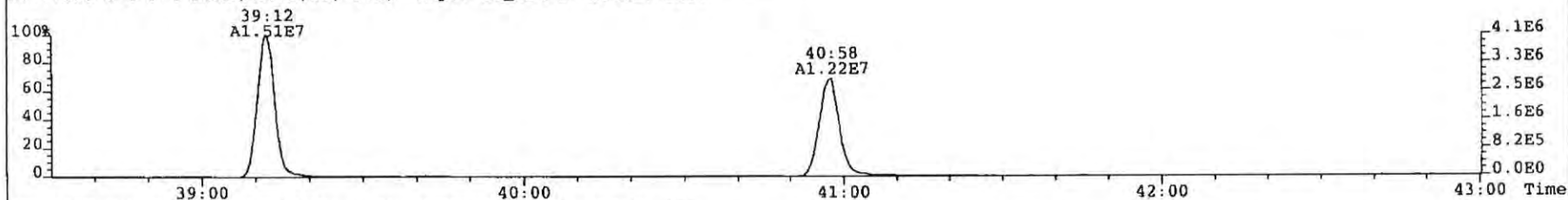
385.8610 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1523



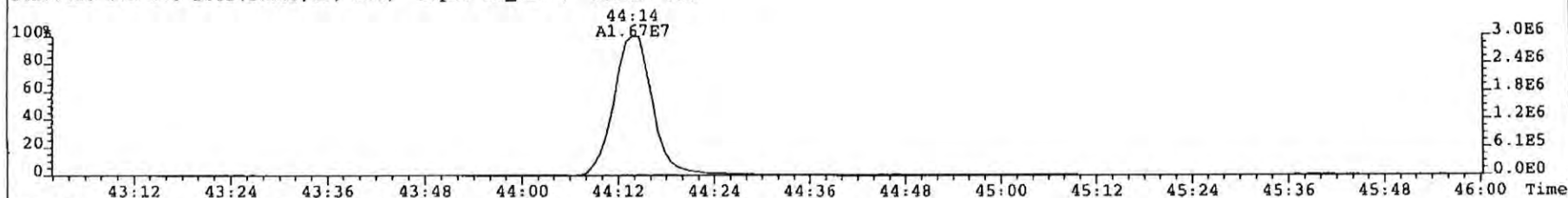
445.7555 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 97



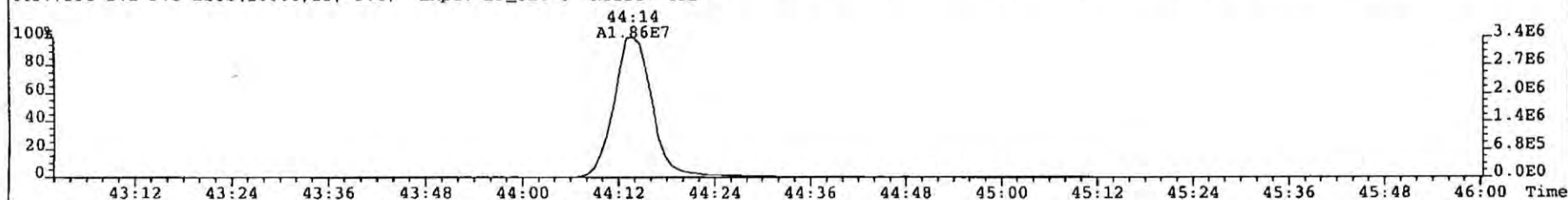
File: 09032JP2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1297



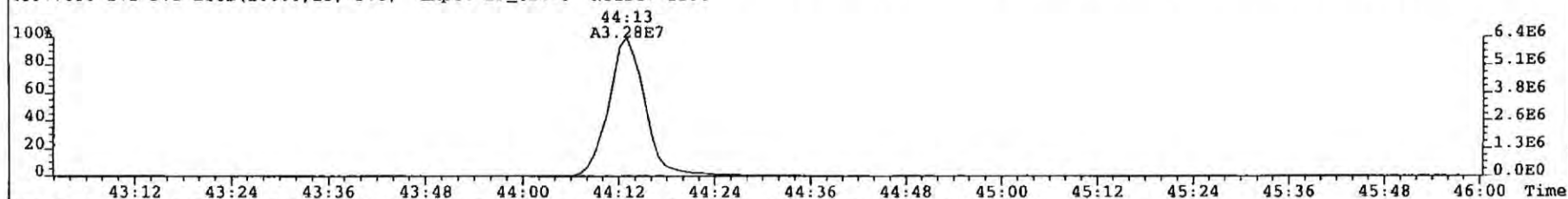
File: 090323P2 Acq: 23-MAR-2009 22:08:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 2 Text: OPR1_6682_DF 0_6682_OPR001 Vial# 32 File Text: AP DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 350



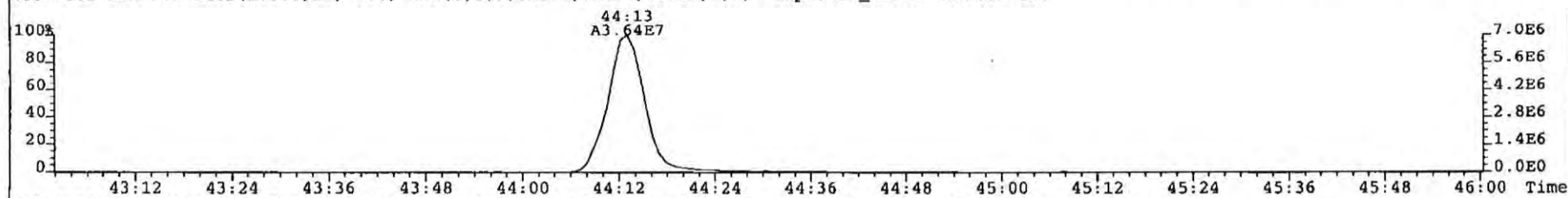
443.7398 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 451



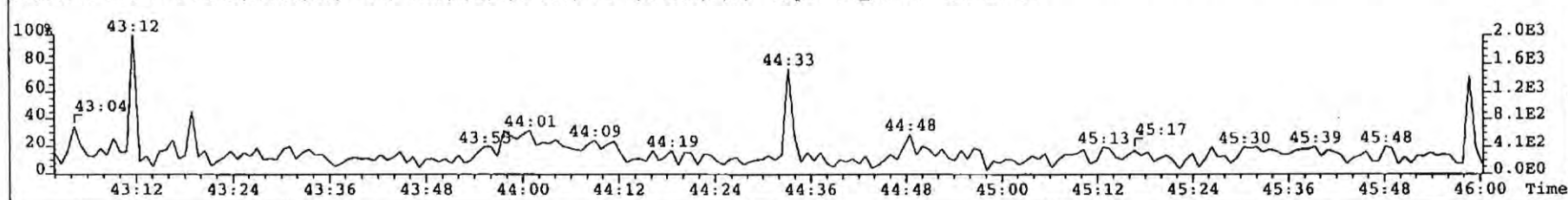
453.7830 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 1284



455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 826



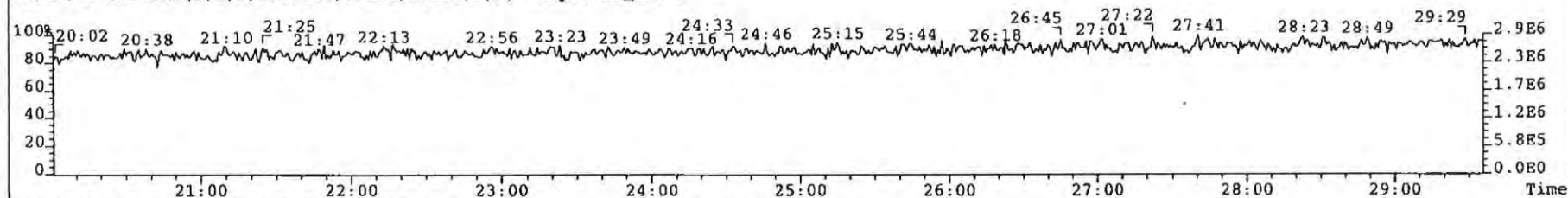
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 89



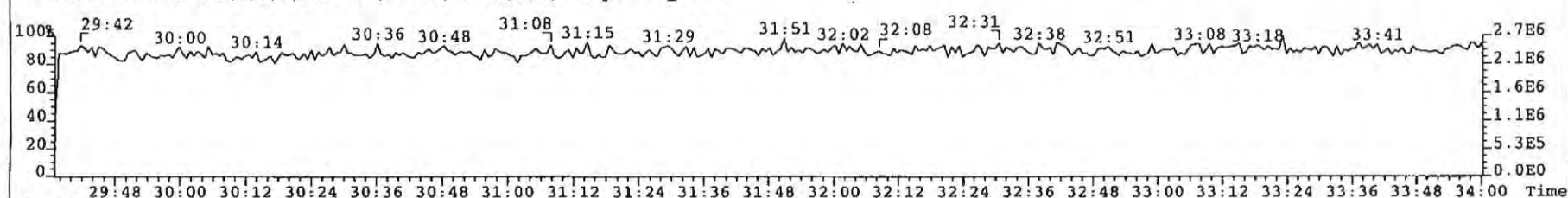
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5

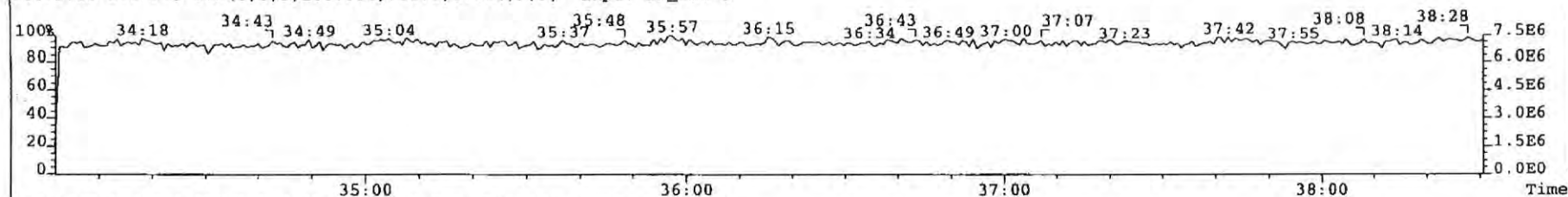
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



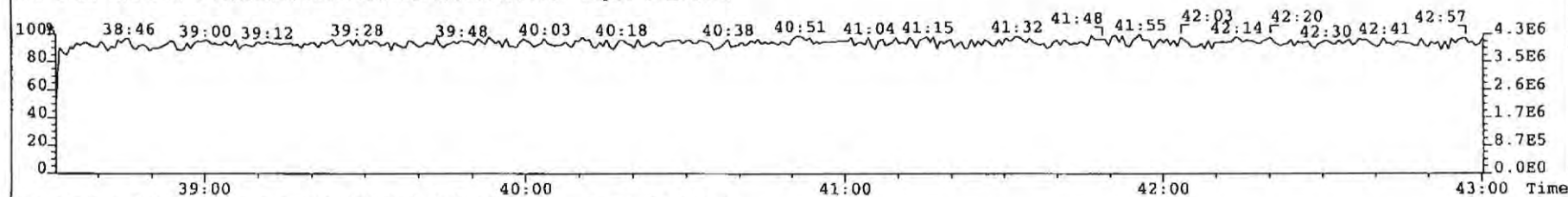
366.9792 S:3 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



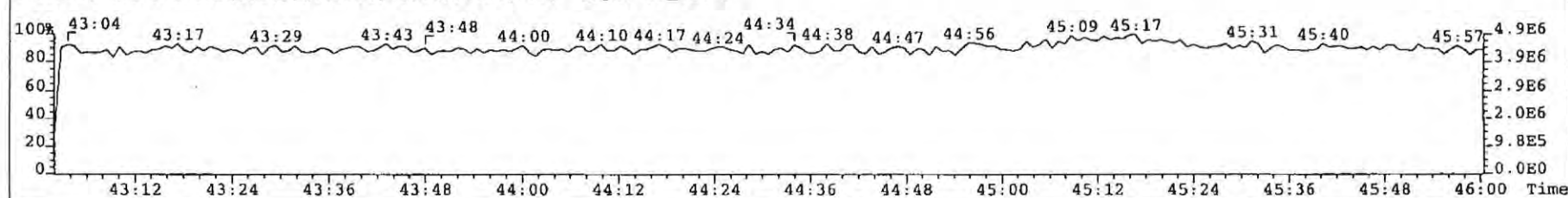
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



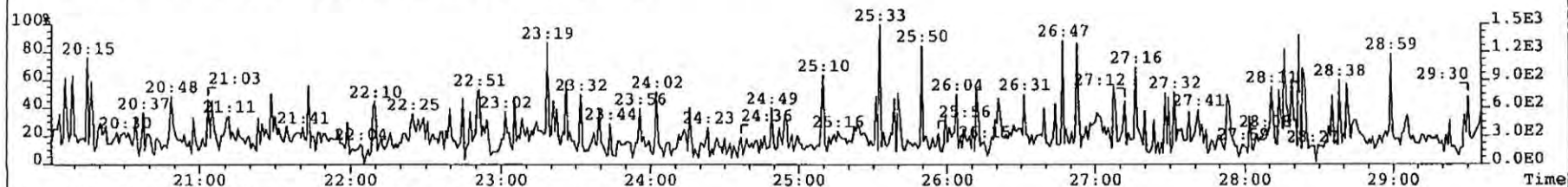
430.9728 S:3 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



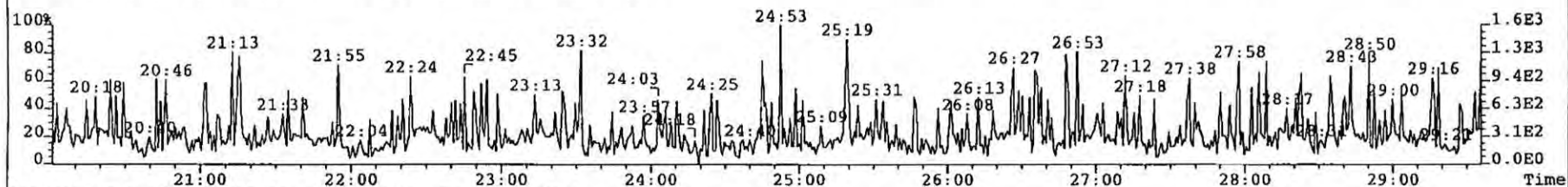
454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



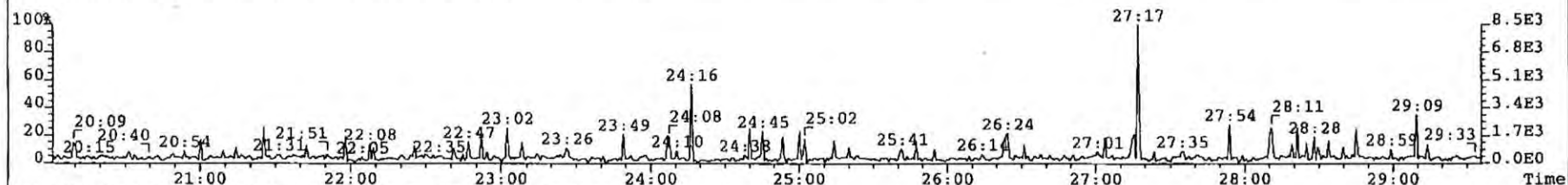
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
319.8965 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 82



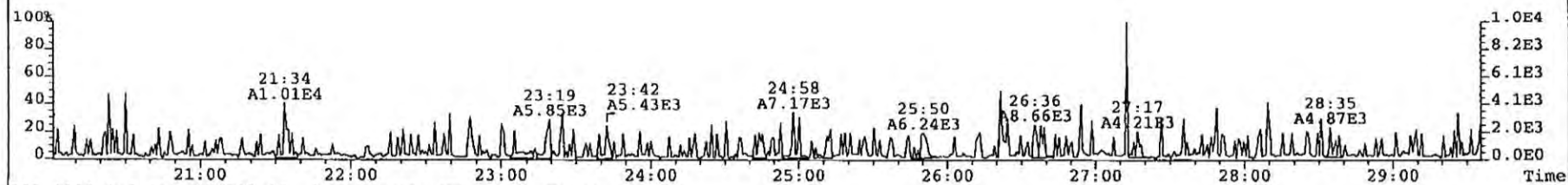
321.8936 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 85



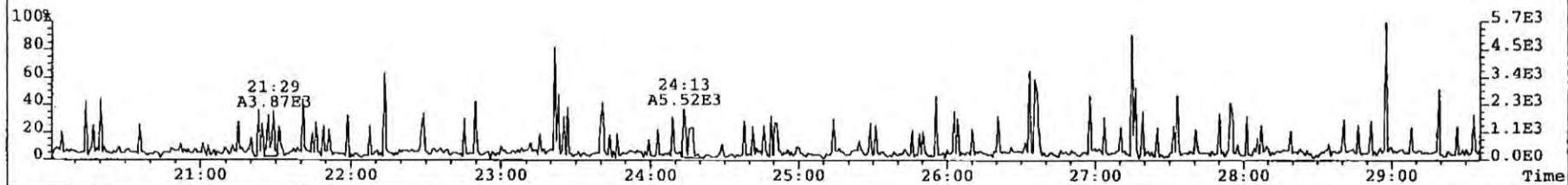
327.8850 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 100



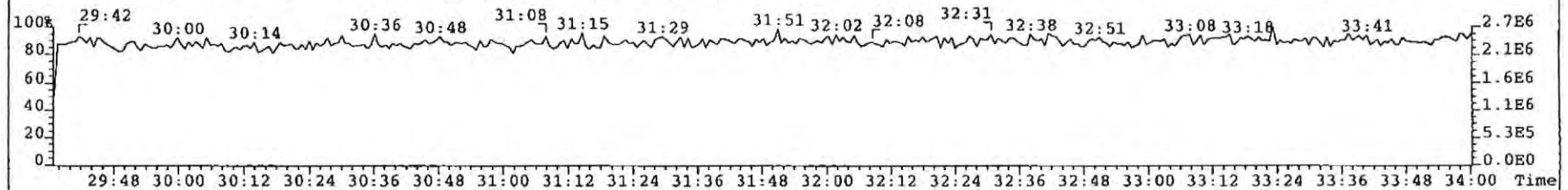
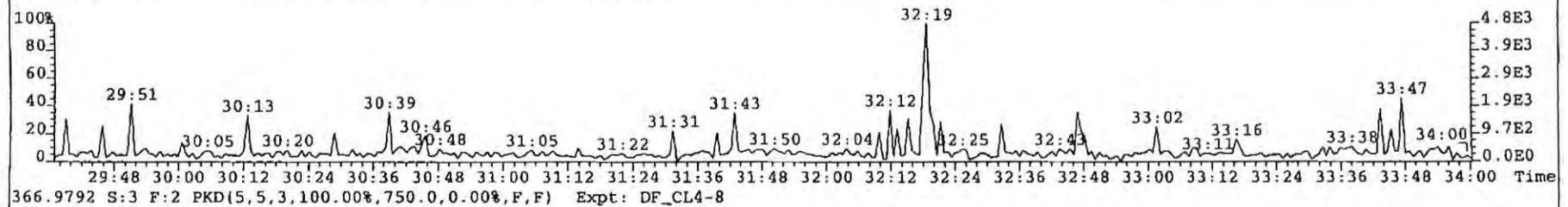
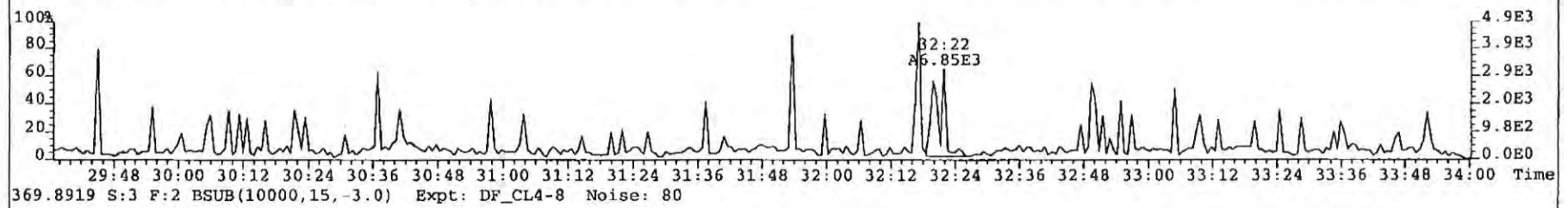
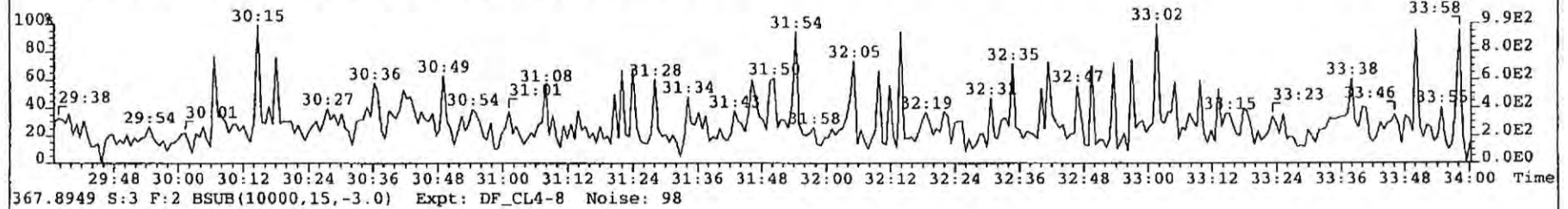
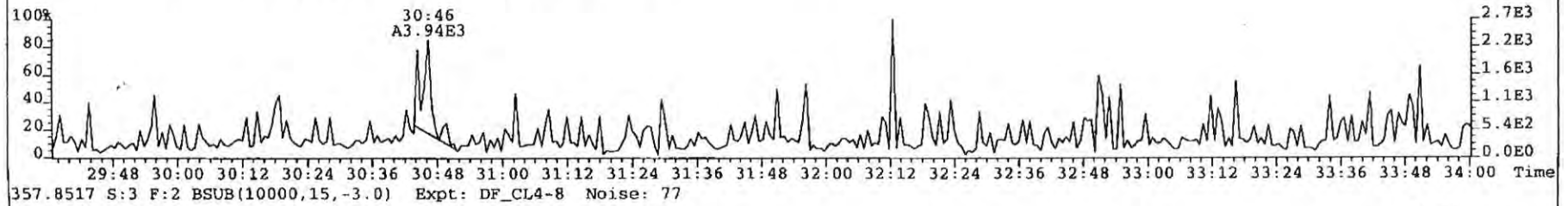
331.9368 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 104



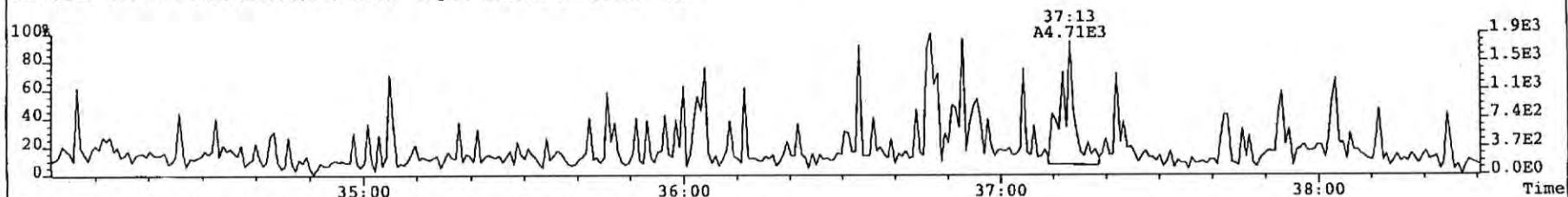
333.9339 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 94



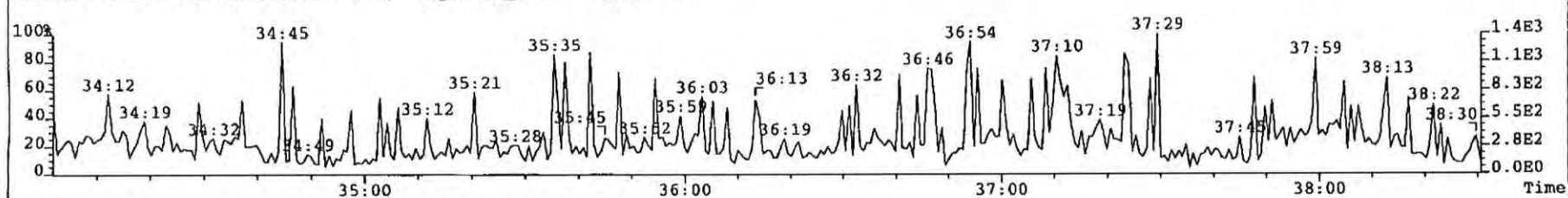
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
355.8546 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 90



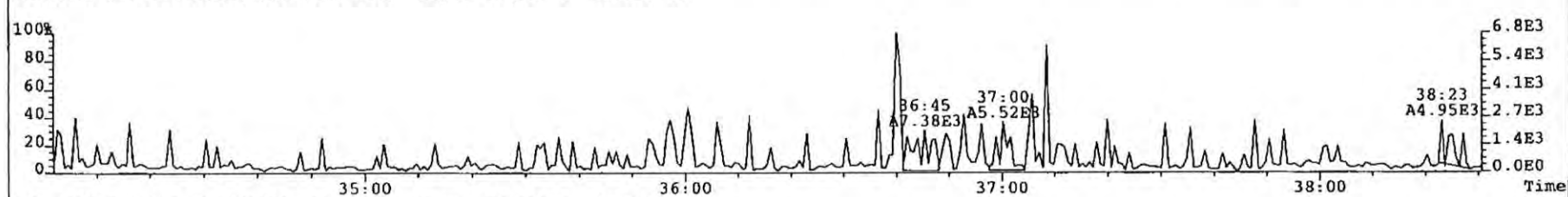
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 75



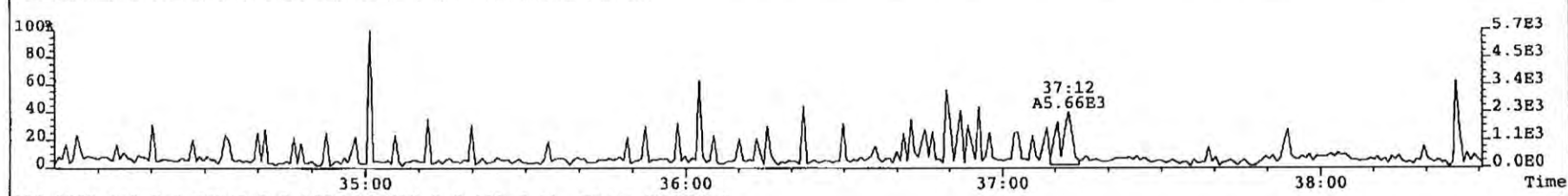
391.8127 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 81



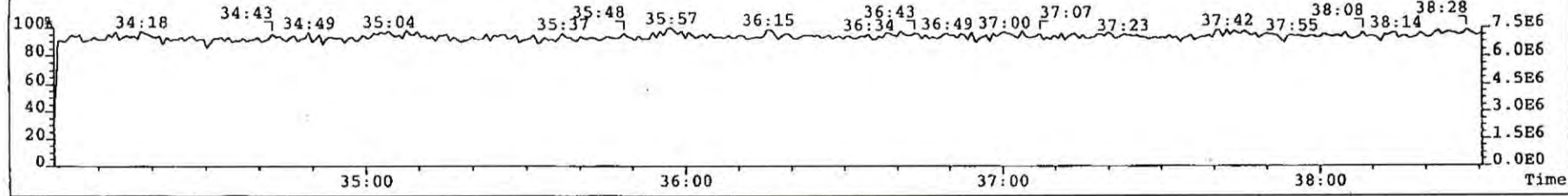
401.8559 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



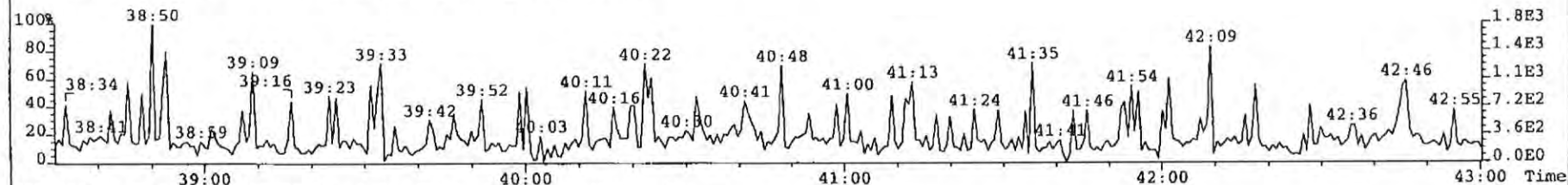
403.8530 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 95



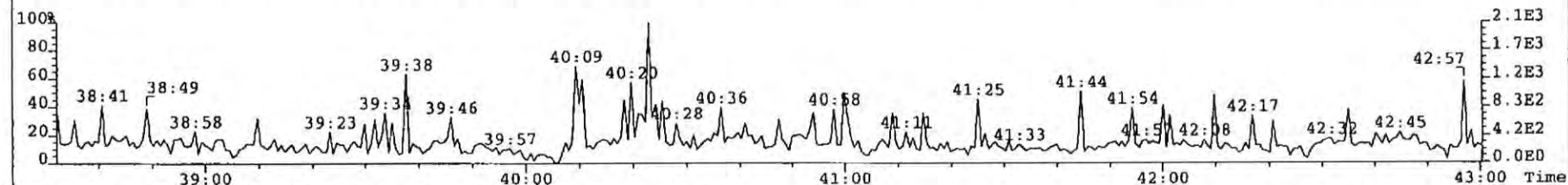
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



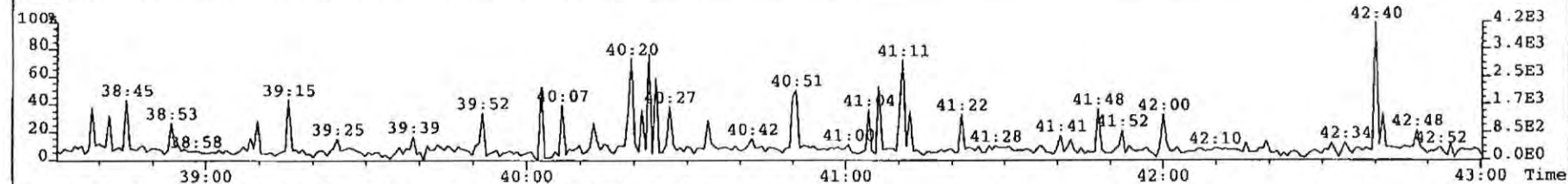
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
423.7767 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 77



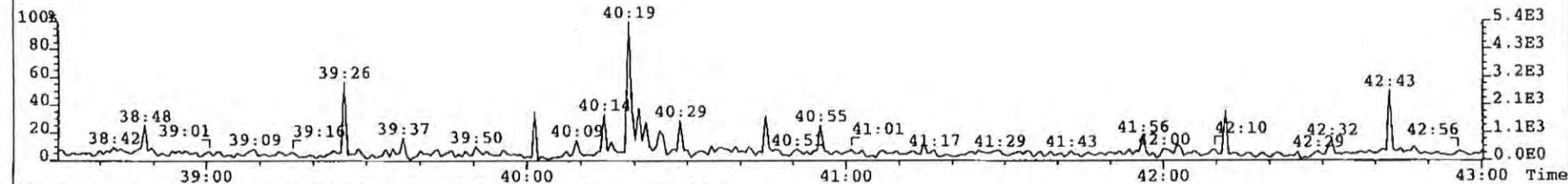
425.7737 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 86



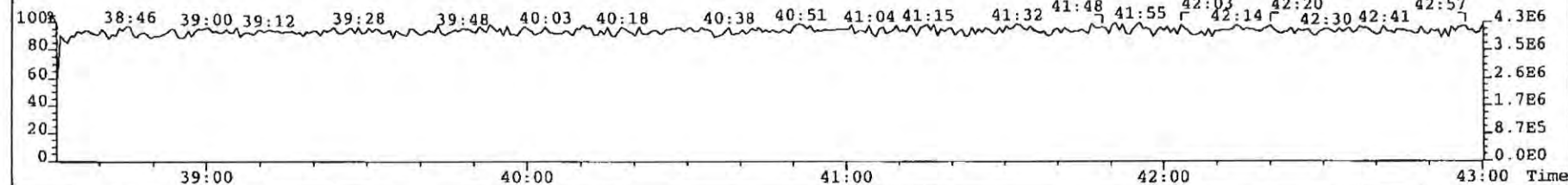
435.8169 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 98



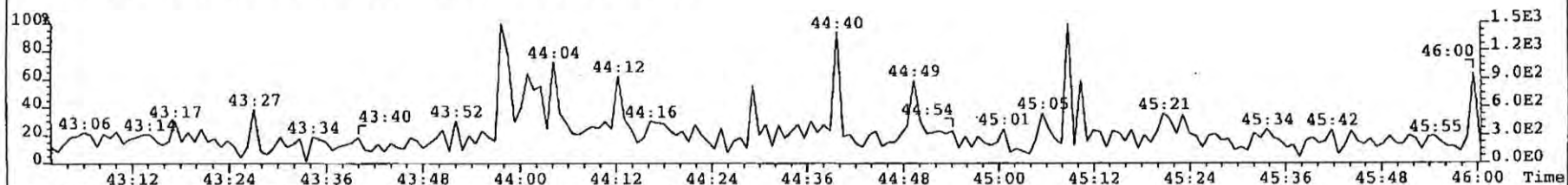
437.8140 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 86



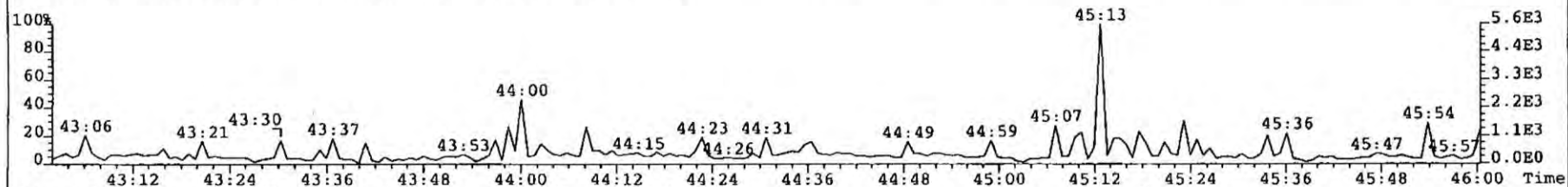
430.9728 S:3 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



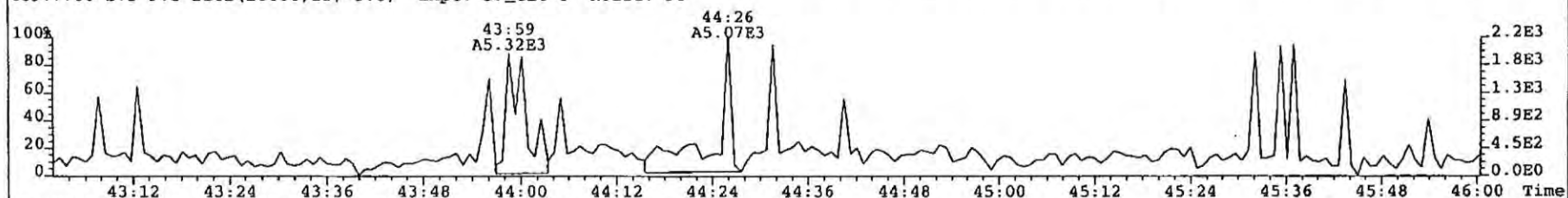
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 83



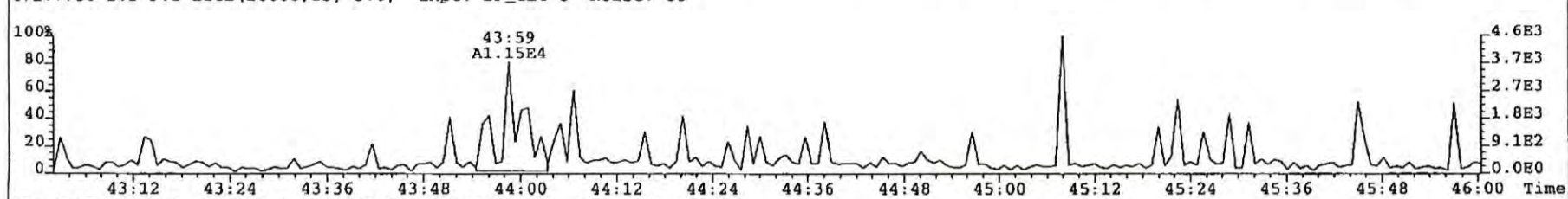
459.7348 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 90



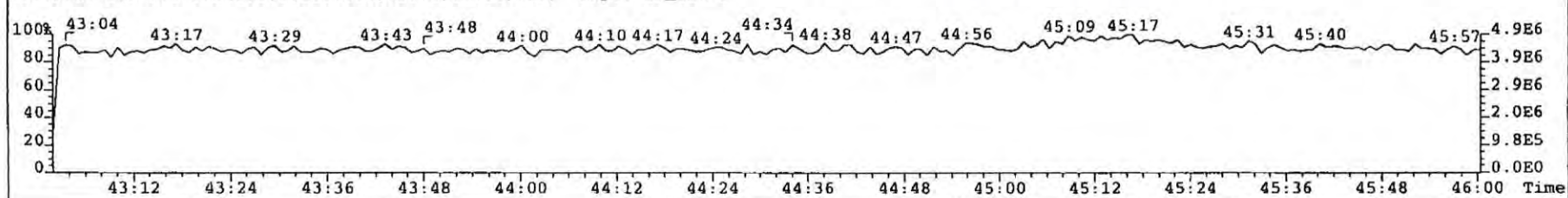
469.7780 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



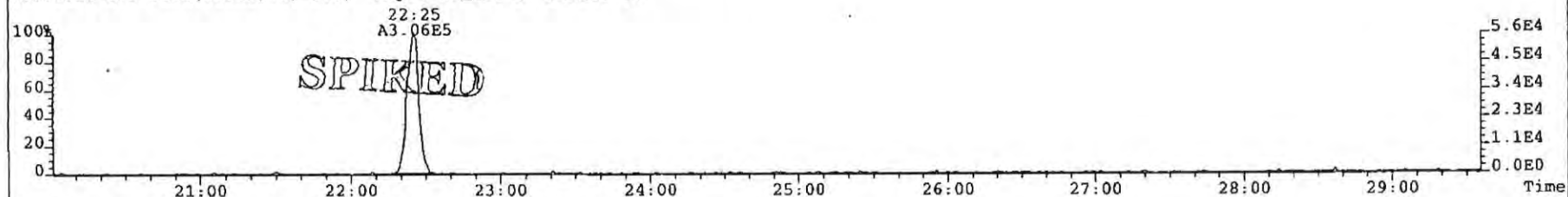
471.7750 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 88



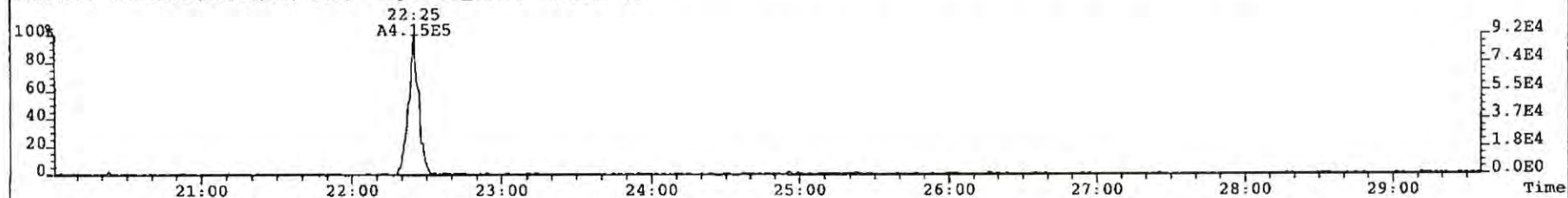
454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



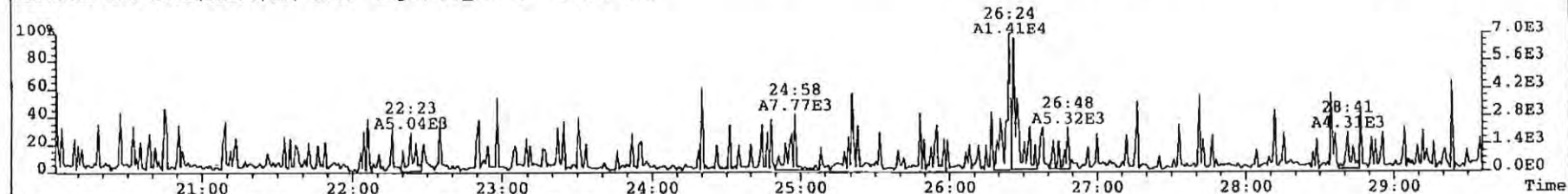
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
303.9016 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 79



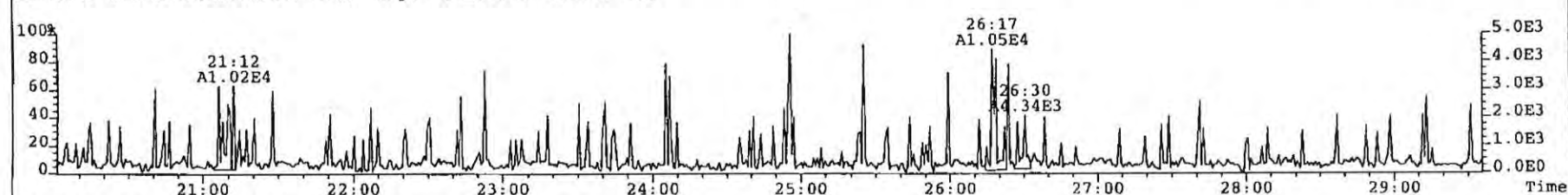
305.8987 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 85



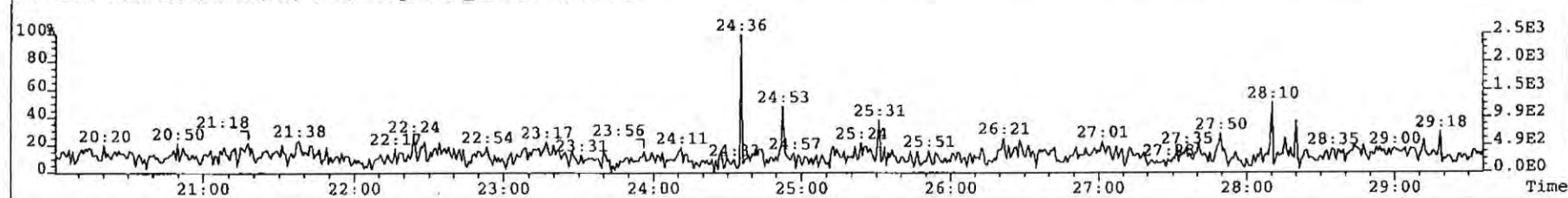
315.9419 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 101



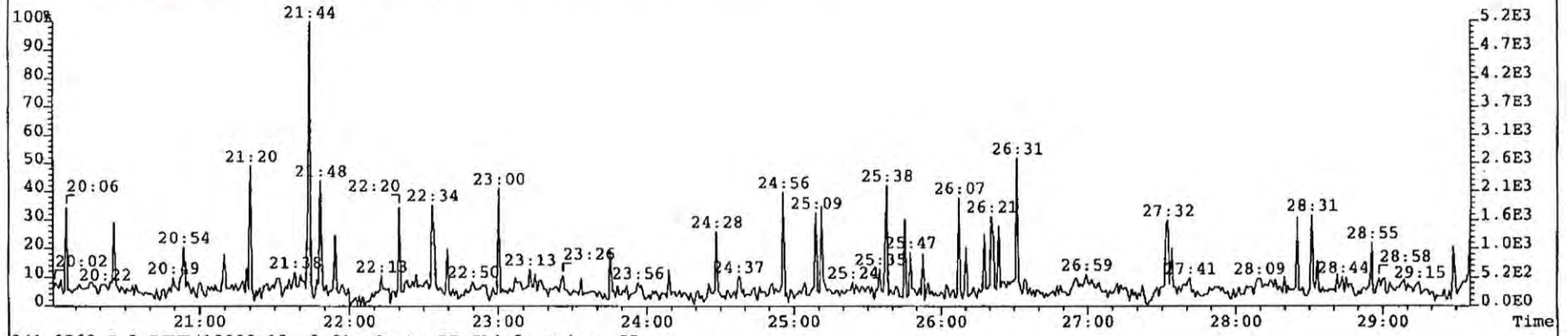
317.9389 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 100



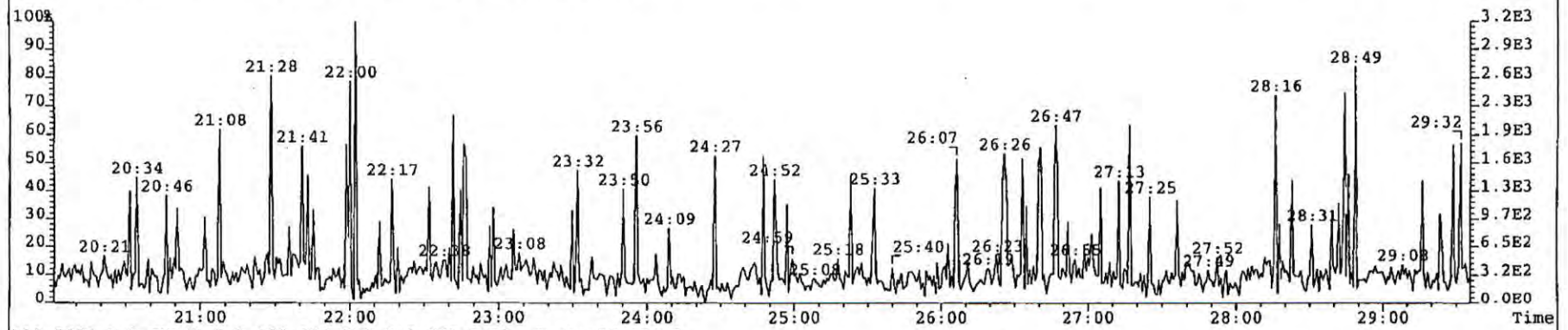
375.8364 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 91



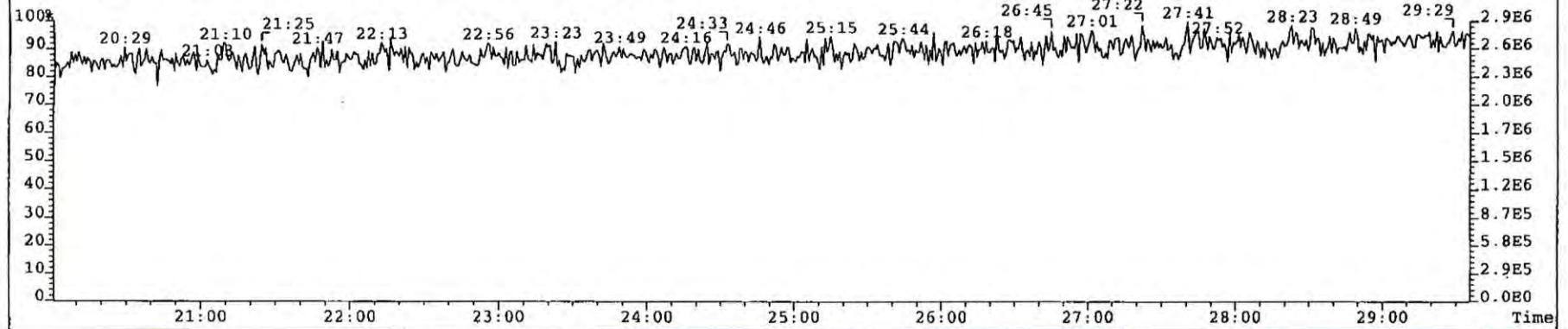
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
339.8597 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 91



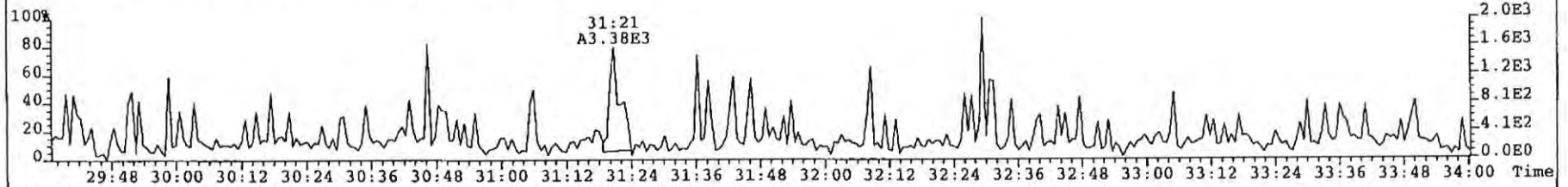
341.8568 S:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



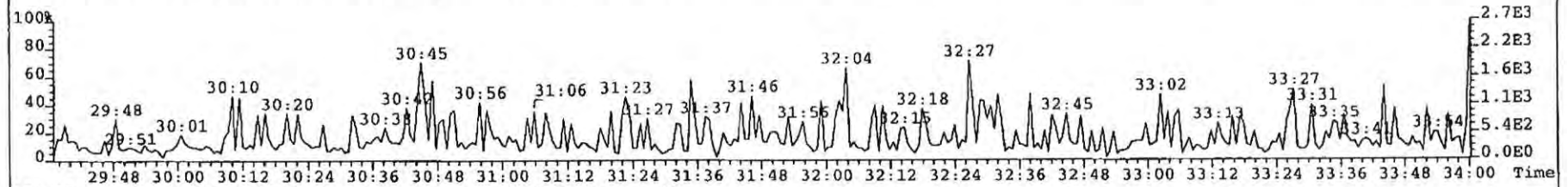
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF_CL4-8



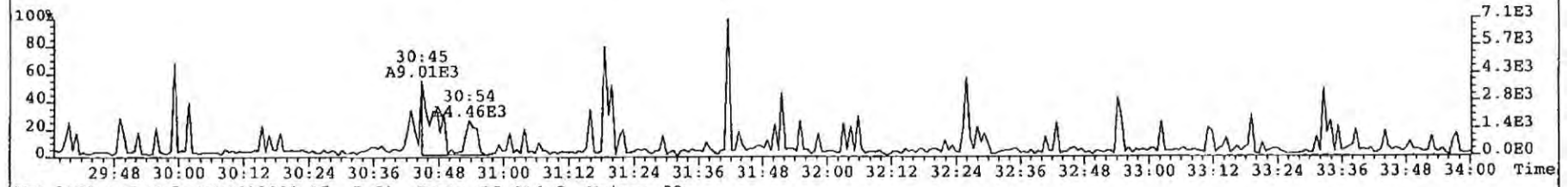
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
339.8597 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 73



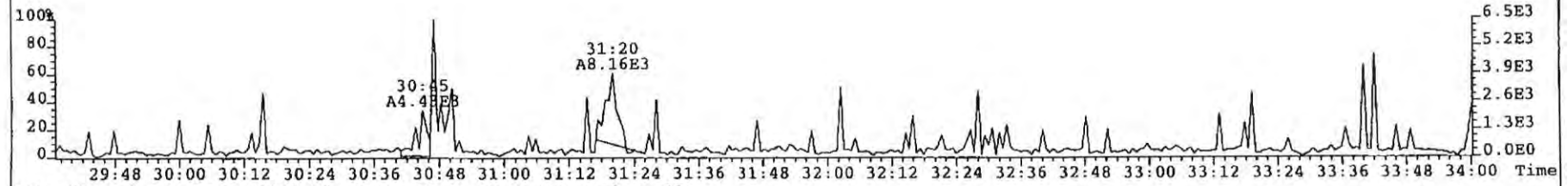
341.8568 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 88



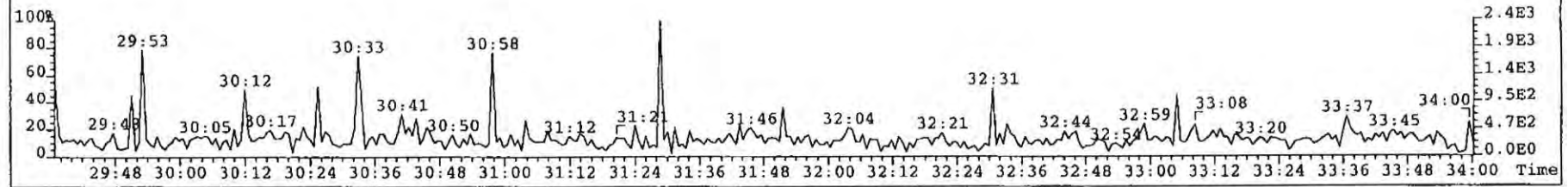
351.9000 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



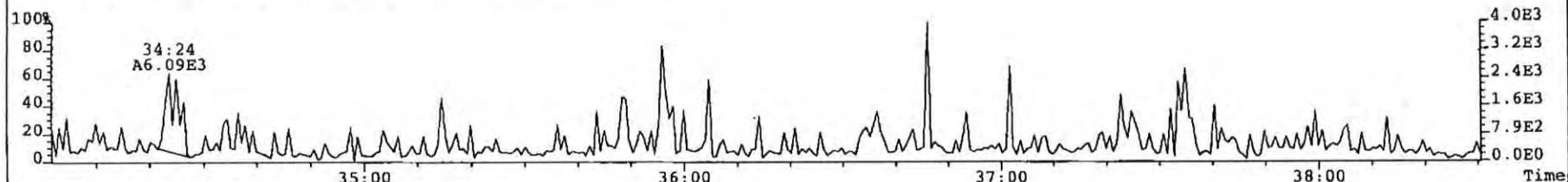
353.8970 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



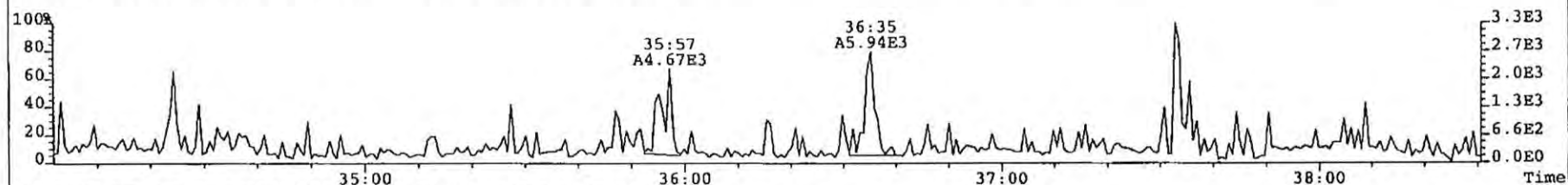
409.7974 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 88



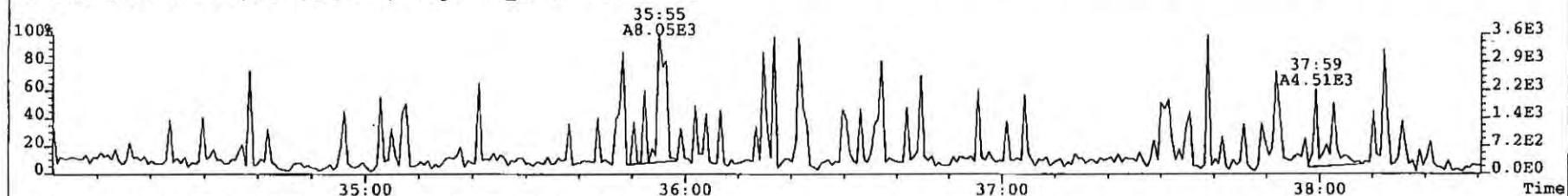
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



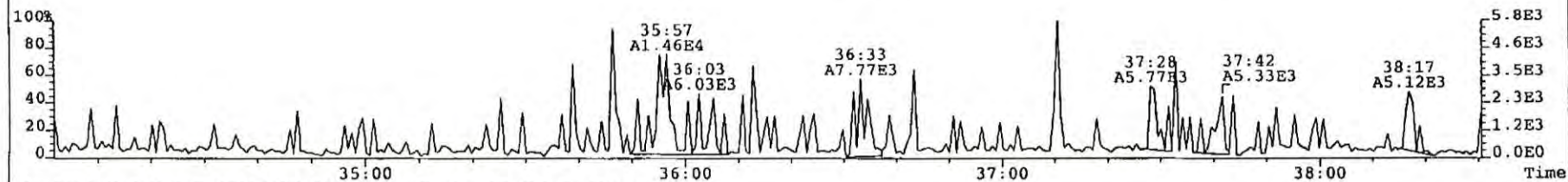
375.8178 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



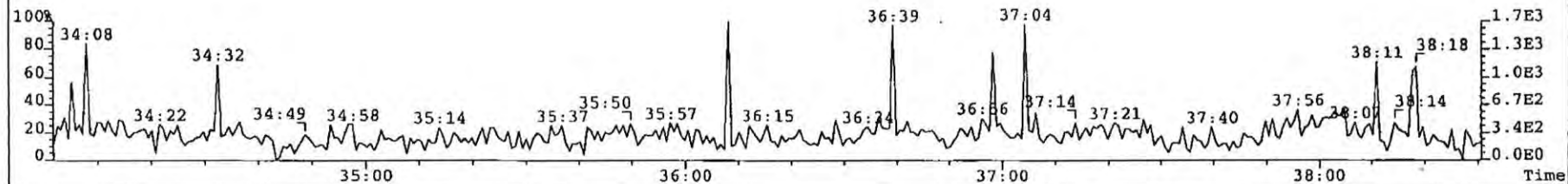
383.8639 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 102



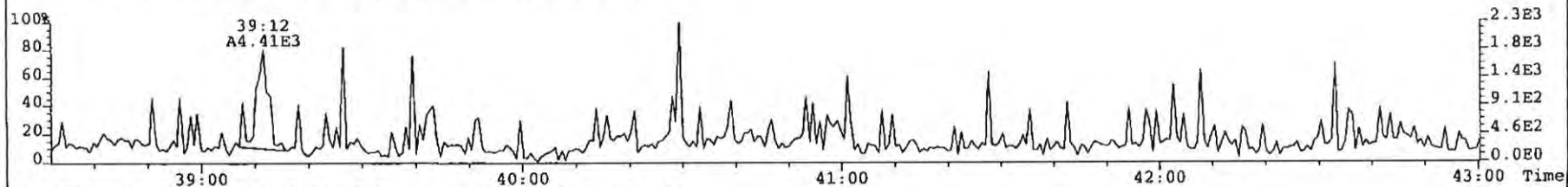
385.8610 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 107



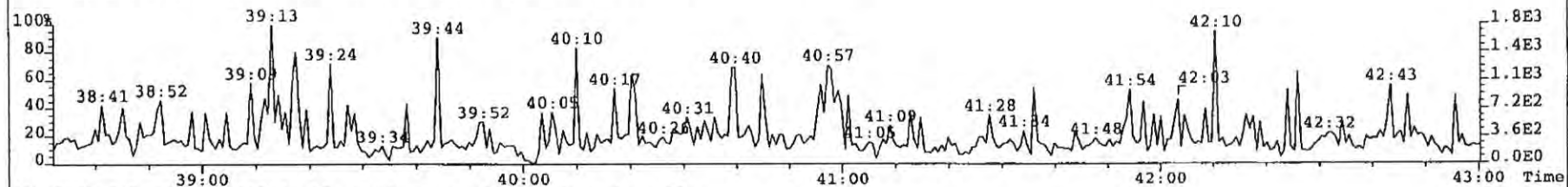
445.7555 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 96



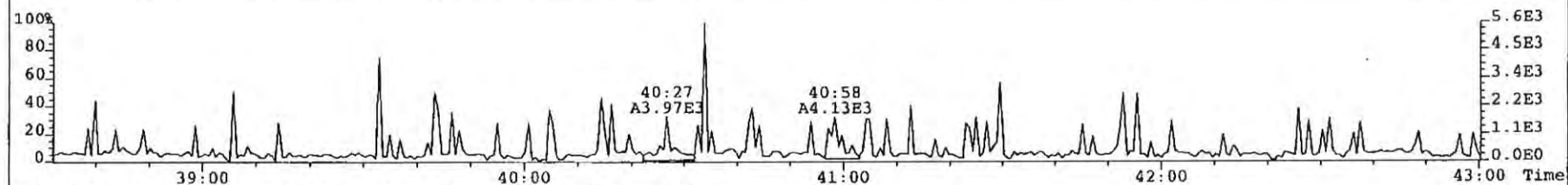
File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage STR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 86



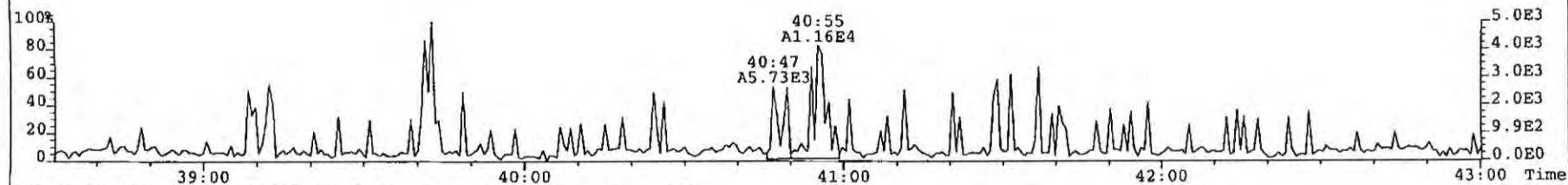
409.7788 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 85



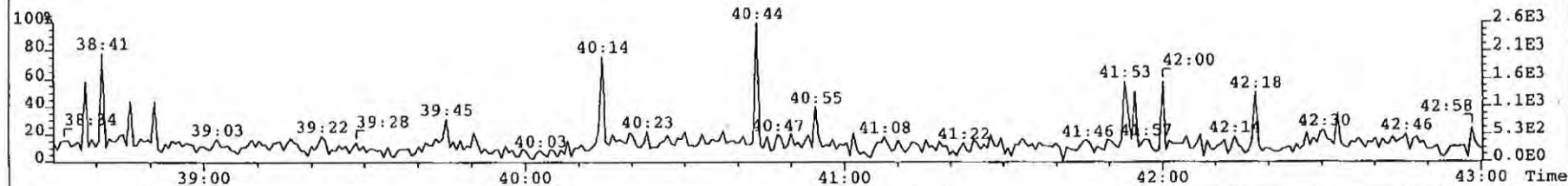
417.8253 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 93



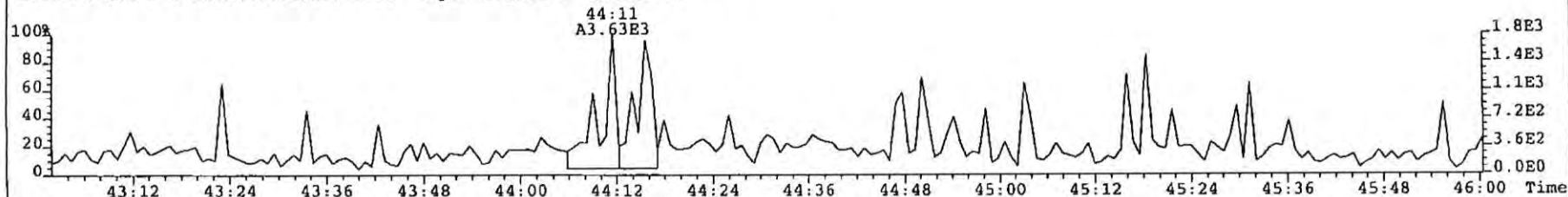
419.8220 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 100



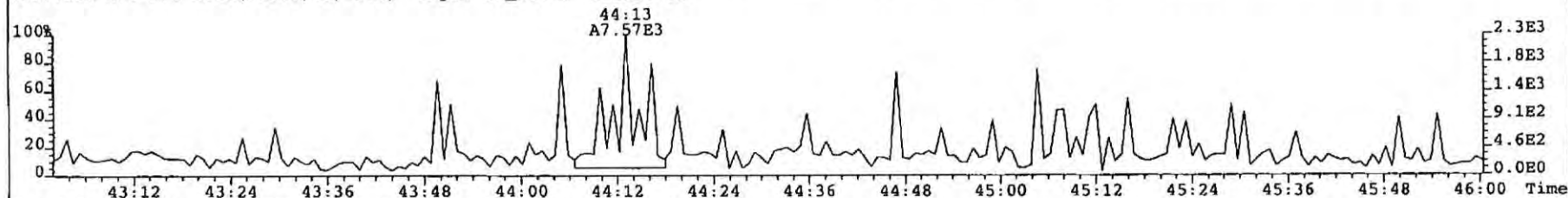
479.7165 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 101



File: 090323P2 Acq: 23-MAR-2009 22:58:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5
441.7428 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 89



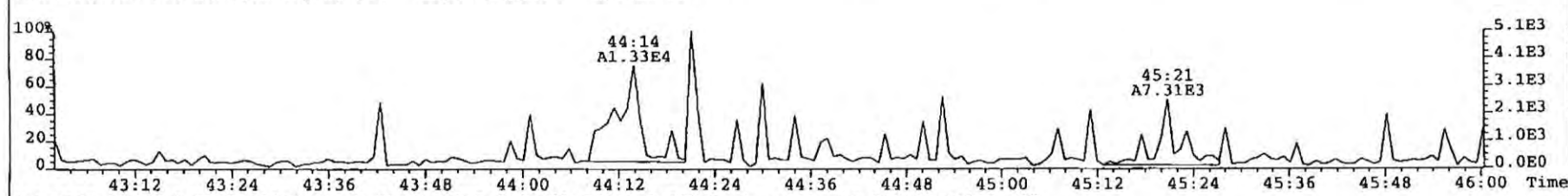
443.7398 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 92



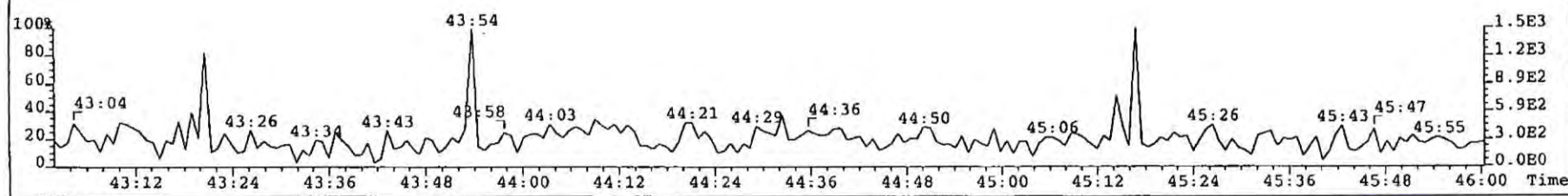
453.7830 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 99



455.7801 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF_CL4-8 Noise: 95



513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF_CL4-8 Noise: 90





CUSTODY SEAL
 Date: 2/26/09
 Signature: *[Handwritten Signature]*

CUSTODY SEAL
 Date: 2/26/09
 Signature: *[Handwritten Signature]*

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Anchor OEA, LLC, Seattle, WA, (206) 287-9130
Project Name: Port of Olympia Berths 2 and 3
Project No: 080166-01
Date: 26 February, 2009 Time: 11:50
Sample Name: PO-BA-24-SS-A-090226
Analysis: Dioxin
Preservative: None
Sampler: LV

Anchor OEA, LLC, Seattle, WA, (206) 287-9130
Project Name: Port of Olympia Berths 2 and 3
Project No: 080166-01
Date: 26 February, 2009 Time: 11:05
Sample Name: PO-BA-25-SS-A-090226
Analysis: Dioxin
Preservative: None
Sampler: LV

Anchor OEA, LLC, Seattle, WA, (206) 287-9130
Project Name: Port of Olympia Berths 2 and 3
Project No: 080166-01
Date: 26 February, 2009 Time: 11:20
Sample Name: PO-BA-26-SS-A-090226
Analysis: Dioxin
Preservative: None
Sampler: LV

Anchor OEA, LLC, Seattle, WA, (206) 287-9130
Project Name: Port of Olympia Berths 2 and 3
Project No: 080166-01
Date: 26 February, 2009 Time: 11:30
Sample Name: PO-BA-27B-SS-A-090226
Analysis: Dioxin
Preservative: None
Sampler: LV

QEA, LLC, Seattle, WA, (206) 287-9130
Project Name: Port of Olympia Berths 2 and 3
Project No: 080166-01
Date: 26 February, 2009 Time: 1150
Sample Name: PO-BA-24-SS-A-090226
P1158-001
PO-BA-24-SS-A-090226
ANEWA01A F-0

QEA, LLC, Seattle, WA, (206) 287-9130
Project Name: Port of Olympia Berths 2 and 3
Project No: 080166-01
Date: 26 February, 2009 Time: 1105
Sample Name: PO-BA-25-SS-A-090226
P1158-002
PO-BA-25-SS-A-090226
ANEWA01A F-0

QEA, LLC, Seattle, WA, (206) 287-9130
Project Name: Port of Olympia Berths 2 and 3
Project No: 080166-01
Date: 26 February, 2009 Time: 1120
Sample Name: PO-BA-26-SS-A-090226
P1158-003
PO-BA-26-SS-A-090226
ANEWA01A

QEA, LLC, Seattle, WA, (206) 287-9130
Project Name: Port of Olympia Berths 2 and 3
Project No: 080166-01
Date: 26 February, 2009 Time: 1025
Sample Name: PO-BA-27B-SS-A-090226
P1158-004
PO-BA-27B-SS-A-090226
ANEWA01A